| Attn: Mr. Wilson Lam Water Service Reservoirs to Caverns CHUN WO - SINOHYDR Chief Resident Engineer CHUN WO - SINOHYDR CHUN WO - SINOHYDR | o JV |
|---|------|
| CONTRACTOR'S SUBMISSION FORM | |
| | |
| Title of Submission : Landscape and Visual Mitigation Plan Submission Number : CWSJV/1076/CSF/0768-2024 Date: 29/04/2024 | |
| Specification & Drawing | |
| Reference : NA | |
| Description of Contents Pursuant to Condition 2.14 of Environmental Permit (EP) No. EP-602/2021, we herewith submit the Landscape and V | |
| Mitigation Plan Rev 3.1 for your review. | |
| Purpose of Submission: ☑ For Review □ For Consent □ For Information ☑ For Record | |
| | |
| From : CHUN WO - SINOHYDRO JV Distribution: | |
| Signature : | |
| Name : PAUL YU CHI KUEN | |
| Title : Project Director | |
| Encl PY/JL/RK/denzel chan | |



UMWELT CONSULTING LIMITED

23/F, On Hong Commercial Building, 145 Hennessy Road, Wan Chai, Hong Kong

By Post

Our Ref : P221002-LVMP-R3.1-V Date : 19th April 2024

Binnies Hong Kong Limited 43/F, AIA Kowloon Tower,

100 How Ming Street,

Kwun Tong, Kowloon, Hong Kong

Attn: Wilson CK Lam

Agreement No. DHSR/IEC/001

Consultancy Service of Independent Environmental Checker (IEC) for Relocation of Diamond Hill Fresh Water and Salt <u>Water Service Reservoirs to Caverns under Contract No. 21/WSD/21</u>

Landscape and Visual Mitigation Plan

Dear Sir,

Pursuant to Condition 2.14 of Environmental Permit (EP) No. EP-602/2021, please note the Landscape and Mitigation Plan Revision 3.1, dated 17 April 2024 submitted under the EP, certified by the Environmental Team Leader on 19 April 2024, had been reviewed and is hereby verified.

Should you have any query, please feel free to contact the undersigned at 3756 9590 or ivanting@umwelt.consulting .

W AND

Your faithfully, For and on behalf of: Umwelt Consulting Limited

Tipe Po Chung Ivan Independent Environmental Checker





Date: 19 April 2024 Your ref: Our ref: PL-202404043

Binnies Hong Kong Limited 43/A, AIA Kowloon Tower 100 How Ming Street Kwun Tong, Kowloon Hong Kong

Attn.: Mr. Wilson C. K. Lam

Dear Mr. Lam,

Contract No. 21/WSD/21 Relocation of Demand Hill Fresh Water and Salt Water Service Reservoirs to Caverns <u>Certification of Landscape and Visual Mitigation Plan (Revision 3.1)</u>

Reference is made to the Landscape and Visual Mitigation Plan (LVMP) (Revision 3.1) submitted by the Contractor on 17 April 2024. We are pleased to inform you that we have no adverse comment on the LVMP.

I hereby certify the LVMP for submission under condition 2.14 of Environmental Permit No. EP-602/2021.

Thank you.

Yours faithfully, For and on behalf of Acuity Sustainability Consulting Limited

Toang Fauldearg

F. C. Tsang Environmental Team Leader

Encl.

cc. Umwelt Consulting Limited Binnies Hong Kong Limited Chun Wo – Sinohydro JV Mr. Ivan Ting (IEC)via emailMr. Howie Ho (RE)via emailMr. Elliott Ting (Site agent)via email



LANDSCAPE AND VISUAL MITIGATION PLAN (LVMP)

CONTRACT NO. 21/WSD/21

RELOCATION OF DIAMOND HILL FRESH WATER AND

SALT WATER RESERVOIRS TO CAVERNS

Approved by:

Revision : 3.1

Date : 17 April 2024

Paul Yu Authorized Representative

Landscape and Visual Mitigation Plan (LVMP)

Revision: 3.1 Date: 17 April 2024

Prepared by:

| Position | Signature | Name | Date |
|------------------------------|-----------|-------------|---------------|
| Environmental Officer | Denzel | Denzel Chan | 17 April 2024 |
| Endorsed by: | | | |
| Position | Signature | Name | Date |
| Authorized Representative | 1 - 1 | Paul Yu | 17 April 2024 |
| L | | | |

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1 Introduction

1.1 PROJECT DESCRIPTION

Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns Environmental Impact Assessment Report (Register No.: AEIAR-232/2021) was approved without conditions by Environmental Protection Department (EPD) on 16 November 2021. An Environmental Permit (EP-602/2021) was issued on 14 December 2021.

Chun Wo – Sinohydro JV (CWSJV) was commissioned by Water Supplies Department as the appointed main contractor for Contract No. 21/WSD/21 Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns.

The Works to be executed under this Contract included, but not exclusively, the following items:

- (i) Construction of the relocated Diamond Hill Fresh Water and Salt Water Service Reservoirs (DHSRs) and associated pumping stations and water main laying works;
- (ii) Construction of tunnels, adits, ventilation system and caverns for accommodating the relocated DHSRs and the associated facilities; and
- (iii) Construction of a 2-storey Portal Ancillary Building
- (iv) Other associated works that are incidental to and necessary for the completion of the Project.

1.2 OBJECTIVE

This is the Landscape and Visual Mitigation Plan submission made in fulfillment of Clause 2.14 of Environmental Permit (EP) No.EP-602/2021.

As stated in Condition 2.14 in the EP No. EP-602/2021, the Permit Holder shall, no later than 1 month before the commencement of the construction of the Project or otherwise approved by the Director, deposit with the Director 4 hard copies and 1 electronic copy of Landscape and Visual Mitigation Plan (LVMP).

Condition 2.14 in the EP No. EP-602/2021 stated that The LVMP shall show the design details, including a compensatory planting proposal for the loss of trees within the Project site, and implementation schedule, maintenance and management schedules, and drawings in the scale of 1:1000 or other appropriate scale of the landscape and visual mitigation measures of the Project. The implementation schedule shall be in table form to clearly list out the mitigation measures to be implemented, and the implementation party, location, timing, and environmental performance required for implementation of the mitigation measures.

1.3 SCOPE OF THE SUBMISSION

This submission aims to demonstrate the landscape and visual mitigation measure adopted during the construction period of Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns. These Landscape and Visual Mitigation Measures for Construction Phase (CM) are developed in accordance with the approved EIA report and EM&A Manual. They include the following:

- •Tree Preservation
- •Tree Transplanting/ Compensatory Tree Planting
- •Inspection of Tree Works
- •Minimisation of Light Impact
- •Erection of Decorative Site Hoarding
- •Reinstatement of Temporarily Disturbed Areas

In accordance with DEVB TC(W) No.4/2020, Tree Survey Report will be prepared by qualified professional to determine the trees conditions and record the findings of topographical and horticultural characteristics of each individual tree (including Tree Survey Plan, Tree Survey Schedule and Tree Photographs) before the tree is to be felled for this project. A qualified professional will carry out bi-monthly tree inspection to all the preserved trees and prepare the tree monitoring report for submission. Quarterly reports with photographs showing the conditions of the transplanted trees/plants will be submitted to LCSD during the nursing and the subsequent establishment period.

Chun Wo – Sinohydro JV will minimise the number of trees to be felled and provide adequate tree protection and preservation measures to the retained trees through the construction period of this Contract as specified in Method Statements for tree felling and transplanting works at attached in *Appendix A*.

The compensatory tree planting will be conducted as specified in Compensatory Planting Plans as attached in <u>Appendix B</u>. The required numbers of compensatory trees will not be less than the numbers of trees to be felled in this Contract.

2 LANDSCAPE AND VISUAL MITIGATION MEASURES IN EIA & EM&A

2.1 LANDSCAPE DESIGN CONSIDERATIONS

2.1.1 The development will meet the following concerns in terms of the landscape design:

i) Exploration of massing and planning study to reduce the building's visual impact and respect the existing topographic character of the hill as described.

ii) Consider architectural detailing and façade strategy that can accommodate the functional

requirement of the portal building but at the same time allow for creation of atmosphere through consistent selection of materials and detailing that are conducive to the overall architectural quality of "integrating architecture into the hill".

iii) Use of soft landscaping and vertical greening to promote public friendly environment, reduce visual impact from surrounding residential neighbourhood.

iv) Landscape design responding to the adjacent park including the park entrance and the entrance to the popular hiking trail.

2.2 LANDSCAPE AND VISUAL MITIGATION MEASURES

In the Table 9.13 of the approved EIA report and Table A4.6 Implementation Schedule of Landscape and Visual Mitigation Measures of the EM&A Manual, various measures are proposed as landscape and visual mitigation measures during the construction and operation stage. These mitigation measures are considered and will be adopted as far as practicable. The portion of the project site where these mitigation measures have been applied are shown in <u>Appendix D</u>.

| EM&A | Landscape and Visual | Implementation Details | Implemented by | Implemented | | |
|---|------------------------------------|--|---------------------|--------------------|--|--|
| Log | Mitigation Measures | under this Plan | | Period | | |
| Ref. | | | | | | |
| Landscape and Visual (Construction Phase) | | | | | | |
| CM1 | Careful Site Planning and | The Contractor will provide | Chun Wo – Sinohydro | Apr 2023 -Oct 2027 | | |
| | <u>Management</u> | unobtrusive sheeting to cover the | JV (CWSJV) | | | |
| | • The site layout and works | large temporary stockpiles of | | | | |
| | area including temporary | excavated material, preventing dust | | | | |
| | access road(s), stockpiling | and dirt spreading to adjacent | | | | |
| | area(s), temporary construction | landscape areas and vegetation, and | | | | |
| | storage shall be carefully | creating a neat and tidy visual | | | | |
| | planned to preserve existing | appearance. | | | | |
| | landscape resources and trees | | | | | |
| | as far as practicable. | The Contractor will orderly and | | | | |
| | Good site practices shall be | carefully store the construction plant | | | | |
| | enforced to eliminate eyesores | and building material in order to | | | | |
| | from unappealing stockpiling/ | create a neat and tidy visual | | | | |
| | storage areas and/or | appearance. | | | | |
| | construction activities. | | | | | |
| CM2 | Careful Design of Slope Works | The Contractor will minimise tree | Chun Wo – Sinohydro | Apr 2023 -Oct 2027 | | |
| | Slope stabilization methods | removal and to create a slope | JV (CWSJV) | | | |
| | (i.e., insertion of soil nails and | surface better blending with the | | | | |
| | establishment of grillage, etc.) | surrounding environment. | | | | |

Table A4.6 Landscape and Visual Mitigation Measures

| | shall be carefully formulated to | | | |
|-----|-----------------------------------|---|---------------------|--------------------|
| | minimise the loss of tree and | | | |
| | landscape cover as far as | | | |
| | practicable. | | | |
| CM3 | Tree Preservation | For CM3- Tree Preservation, | Chun Wo – Sinohydro | Apr 2023 -Oct 2027 |
| | • In accordance with DEVB TC | treatment of existing trees is | JV (CWSJV) | |
| | (W) No.4/2020 – Tree | summarized below, and the tree | | |
| | Preservation or its latest | treatment plan is presented in | | |
| | version, existing vegetation | <u>Appendix F.</u> | | |
| | shall be retained on site as far | | | |
| | as practicable. | | | |
| | Adequate tree protection | | | |
| | measures shall be provided for | | | |
| | the trees to be retained on site. | | | |
| | Relevant guidelines on tree | | | |
| | care and protection | | | |
| | promulgated by Greening, | | | |
| | Landscape and Tree | | | |
| | Management Section of | | | |
| | Development Bureau shall be | | | |
| | observed and followed. | | | |
| CM4 | Tree Transplanting/ | Details of the proposed planting | Chun Wo – Sinohydro | Apr 2023 -Oct 2027 |
| | Compensatory Tree | location for compensatory | JV (CWSJV) | |
| | <u>Planting</u> | planting is provided in Appendix | | |
| | • Trees unavoidably affected by | <u>B</u> . Two areas are available for | | |
| | the project shall be transplanted | accommodating all the 263 | | |
| | as far as practicable in | compensatory trees. | | |
| | accordance with DEVB TC | | | |
| | (W) No.4/2020 – Tree | | | |
| | Preservation or its latest | | | |
| | version and the latest | | | |
| | guidelines promulgated by | | | |
| | Greening, Landscape and Tree | | | |
| | Management Section of | | | |
| | Development Bureau. | | | |
| | • Affected trees that are not | | | |
| | suitable for transplantation and | | | |
| | to be felled shall be | | | |
| | 1 | 1 | 1 | 1 |

| compensated in not less thancompensated in not less thancompensated in not less than1:1 in quantity and inconducted with DEVB TC(W) No.4/2020 - Treeconducted with DEVB TC(W) No.4/2020 - Treeconducted in sector is latestversion.conducted in sector is latestversion.conducted in sector is latestversion.conducted in sector is latestversion.consile compensation hus beenpioritised. However, due toland status issues, area ofcompensate for the loss of treesand near site compensatorylocations managed by WSD areadopted, as shown in Figure9.018 and Figure 9.110 ftheFIA report.visiting vegetation.CM5Inspection of Tree Worksvisiting vegetation.compatible with surroundingvisiting vegetation.CM6Inspection of Tree Worksvisiting vegetation.trees on site corry month.inght.adapted as the proven or site corry month.inght. <th></th> <th></th> <th></th> <th></th> <th>[]</th> | | | | | [] |
|---|-----|----------------------------------|-------------------------------------|------------------------|--------------------|
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| (W) No.4/2020 - Trce Preservation or its latest version. • Onsite compensation has been prioritised. However, due to I and statts issues, area of onsite compensatory planting locations are insufficient to compensatory planting locations managed by WSD are adopted, as shown in Figure 9.9, Figure 9.10A, Figure 9.10B and Figure 9.11 of the EIA report.Issue of the loss of trees issue of the loss of tree set of the loss of trees issue of the loss of tree set of the loss of trees adopted, as shown in Figure 9.9, Figure 9.10A, Figure 9.10B and Figure 9.11 of the EIA report.Chua Wo - Simohydro VersionApr 2023 - Oct 2027CM5Inspection of Tree Works Negular site inspection shall be conducted by tree specialist to inspection of the set on site every month.Chua Wo - Simohydro JVApr 2023 - Oct 2027CM6Minimisation of Light Impact inght.Any construction works construction period to prevent light overspill to nearby VSRs inght overspill to nearby VSRs indicated the recessary entrances and exits will use lower power or try to illuminate the ground, which will minimise the ivauil impact.Chun Wo - Simohydro JVApr 2023-Oct 2027CM7Erection of Decorative SiteDecorative screen hoarding | | | | | |
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| Kuch as the lights at the necessary entrances and exits will use lowerImage: Netran Schwarz power or try to illuminate the ground, which will minimise the visual impacts.Image: Netran Schwarz power or try to illuminate the to isual impacts.Image: Netran Schwarz power or try to illuminate the power or try to illuminate the to isual impacts.Image: Netran Schwarz power or try to illuminate the power or try to illuminate the to isual impacts.Image: Netran Schwarz power or try to illuminate the power or try to illuminate the <th></th> <th></th> <th>and into the sky. The project will</th> <th></th> <th></th> | | | and into the sky. The project will | | |
| CM7 Erection of Decorative Site becorative screen hoarding be Chun Wo – Sinohydro JV Apr 2023 -Oct 2027 | | | consider other security measures, | | |
| Power or try to illuminate the ground, which will minimise the visual impacts.Power or try to illuminate the ground, which will minimise the | | | such as the lights at the necessary | | |
| CM7 Erection of Decorative Site Decorative screen hoarding be Chun Wo – Sinohydro JV Apr 2023 -Oct 2027 | | | entrances and exits will use lower | | |
| CM7 Erection of Decorative Site Decorative screen hoarding be Chun Wo – Sinohydro JV Apr 2023 - Oct 2027 | | | power or try to illuminate the | | |
| CM7 Erection of Decorative Site Decorative screen hoarding be Chun Wo – Sinohydro JV Apr 2023 - Oct 2027 | | | ground, which will minimise the | | |
| | | | visual impacts. | | |
| Hoarding erected to screen the public from (CWSJV) | CM7 | Erection of Decorative Site | Decorative screen hoarding be | Chun Wo – Sinohydro JV | Apr 2023 -Oct 2027 |
| | | <u>Hoarding</u> | erected to screen the public from | (CWSJV) | |

| | I | Ι | 1 | |
|---------|--|---|-------------------------|--------------------|
| | • Decorative hoarding that is | the construction area. We also | | |
| | compatible with the | recommend hoarding graphic | | |
| | surrounding environment shall | enhancement design for this | | |
| | be erected during construction. | project, completion expected in | | |
| | | the fourth quarter of 2023. It will | | |
| | | be designed to be compatible with | | |
| | | the existing urban context. The | | |
| | | Conceptual hoarding plan | | |
| | | attached in <u>Appendix E.</u> | | |
| CM8 | Reinstatement of Temporarily | To reinstate the disturbed | Chun Wo – Sinohydro | Apr 2023 -Oct 2027 |
| | Disturbed Areas | landscape areas shortly after the | JV (CWSJV) | |
| | Temporarily disturbed | completion of works on site. See | | |
| | landscape areas shall be | attached in <u>Appendix D.</u> | | |
| | reinstated. | | | |
| Landsca | pe and Visual (Operation Phase | 2) | | |
| OM1 | Landscape Planting | The Landscape Planting design | WSD | Operation stage |
| | Landscape planting shall be | drawing is attached in Appendix | (Via Contractor) | |
| | provided in accordance with | <u>C</u> . | | |
| | DEVB TCW No.3/2012 – Site | | | |
| | Coverage of Greenery for | | | |
| | Government Building Projects | | | |
| | or its latest version. | | | |
| | Planting species shall be | | | |
| | compatible with the nearby | | | |
| | existing vegetation cover as far | | | |
| | as practicable. | | | |
| | • Not less than 12-month | | | |
| | rot less than 12 month | | | |
| | establishment after completion | | | |
| | | | | |
| | establishment after completion | | | |
| OM2 | establishment after completion shall be provided for the | The green roof garden will be | WSD | Operation stage |
| OM2 | establishment after completion shall be provided for the landscape planting. | The green roof garden will be provided to enhance the landscape | WSD (Via Contractor) | Operation stage |
| OM2 | establishment after completion shall be provided for the landscape planting. <u>Rooftop Greening</u> | | | Operation stage |
| OM2 | establishment after completion shall be provided for the landscape planting. <u>Rooftop Greening</u> Rooftop greening shall be | provided to enhance the landscape | | Operation stage |
| OM2 | establishment after completion shall be provided for the landscape planting. <u>Rooftop Greening</u> Rooftop greening shall be implemented with reference to | provided to enhance the landscape quality of the structures and | | Operation stage |
| OM2 | establishment after completion shall be provided for the landscape planting. <u>Rooftop Greening</u> Rooftop greening shall be implemented with reference to the references on skyrise | provided to enhance the landscape quality of the structures and mitigate any potential visual | | Operation stage |
| OM2 | establishment after completion shall be provided for the landscape planting. <u>Rooftop Greening</u> Rooftop greening shall be implemented with reference to the references on skyrise greenery provided by the | provided to enhance the landscape quality of the structures and mitigate any potential visual impact on adjacent VSRs. The | | Operation stage |

| OM3 | <u>Vertical Greening</u> Vertical greening shall be provided. | The green wall and climbers will be provided to soften the proposed structure. The Vertical design drawings is attached in <u>Appendix C</u> . | WSD (Via Contractor) | Operation stage |
|-----|--|--|-------------------------|-----------------|
| OM4 | Careful Design of AncillaryFacilities• The orientation and locationof the ancillary facilities shallbe carefully designed. Its finishshall be non-reflective and dullin colour.• The ancillary facilities areunmanned structures thatmerely require minimalsecurity services duringdaytime. There shall be nobodyand no lighting illuminatingfrom the buildings at night,except essential street lightingfor the portal access road. | Our design drawing already considers the relevant circumstances. The detail design drawings are attached in <u>Appendix C</u> . | WSD (Via Contractor) | Operation stage |

2.3 TREE TREATMENT AND COMPENSATION

Below is the Summary of Tree Treatment for Landscape and Visual Mitigation Plan under this Contract,

- No. of trees to be transplanted: 4.
- No. of trees to be retained: 12.
- No. of trees to be fell: 263

2.4 METHOD STATEMENT FOR TREE PRESERVATION AND PROTECTION

For CM3- Tree Preservation, treatment of existing trees is summarized below, and the tree treatment plan is presented in <u>Appendix F</u>.

RETAIN: A total of 12 trees are proposed to be retained in-situ. The trees located along the proposed ancillary building would not be affected and are proposed to be retained. The feasibility of the tree retaining is demonstrated in the section drawings (*Appendix G*).

To enhance the health and the appearance of the retained trees, Tree Protection Zone (TPZ) with advance tree protection works prior to any construction activity are proposed for tree ID Nos.A219, A249, A250, E13, E14, E15, E16, E24, E25, E26, E27 and E68. The method statement for tree preservation and protection within the TPZ is provided in <u>Appendix H</u>. As some parts of the tree crown of tree ID Nos. E24, E25 and E68 fall within the proposed works area of tunnel and site formation area of ancillary building, the corresponding tree crown and branches are proposed to be pruned.

2.5 MAINTENANCE AND MANAGEMENT SCHEDULES

The schedule of maintenance and management for landscape works is shown in Table 2.1

| | | Month | | | | | | | | | | |
|-------------------------|---|-------|---|---|---|----|--------|----|---|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Watering * | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Fertilizing | | | Y | | | | | | | | | |
| Fungicide / Insecticide | | | Y | | | | | | | | | |
| Weeding | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Securing | | | Y | | | | | | | | | |
| Repairing | | | | | | As | requir | ed | | | | |
| Litter Removal | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Pruning Trees | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Mowing | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Tree Risk Assessment | | | Y | | | | | | | | | |

Table 2.1 The schedule of maintenance and management for landscape works

*Exact frequency of watering shall be adjusted from time to time as required to suit site conditions

3 SUMMARY

This is the Landscape and Visual Mitigation Plan (LVMP) submission made in fulfillment of Clause 2.14 of Environmental Permit (EP) (No. EP-602/2021). Proposed landscape and visual mitigation measures during the construction phase are in accordance with the Table 9.13 of the approved EIA report and the Table A4.6 Implementation Schedule of Landscape and Visual Measures of the EM&A Manual.

All relevant design measures listed in the Table 9.13 of the approved EIA report and the Table A4.6 Implementation Schedule of Landscape and Visual Measures of the EM&A Manual have been considered in the construction stage. These measures have been incorporated in the landscape and visual mitigation plan as far as practicable.

Appendix A – Method Statements for Tree Felling and Transplanting Works

Contract No: **21/WSD/21**



Project Title:

Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns

Method Statement – Tree Felling Work

Document No:CWSJV/1067/MSSF/00010Revision:0

Date: 10 February 2023



Method Statement – Tree Felling Work

Revision History

| Revision No. | Description | Revised By | Date |
|--------------|-------------|------------|------------------|
| 0 | First Issue | Kevin TAM | 10 February 2023 |
| | | | |
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Method Statement -

Tree Felling Work

Document No: CWSJV/1067/MSSF/00010

Revision: 0 Date: 10 February 2023

Prepared and checked:

| Position | Signature | Name | Date |
|------------------------------|-----------|-------------|------------------|
| Engineer | Keh | Kevin Tam | 10 February 2023 |
| Assistant Project Manager | Limit | Felix Ho | 10 February 2023 |
| Environmental Officer | | Gemini Lam | 10 February 2023 |
| Safety Officer | fl. | Eddie Chung | 10 February 2023 |
| | | | |

Approved by:

Site Agent Kenny Poon 10 February 2023



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1 General

1.1 Objective

This method statement describes the sequence and method of tree felling under this contract.

1.2 Scope of works

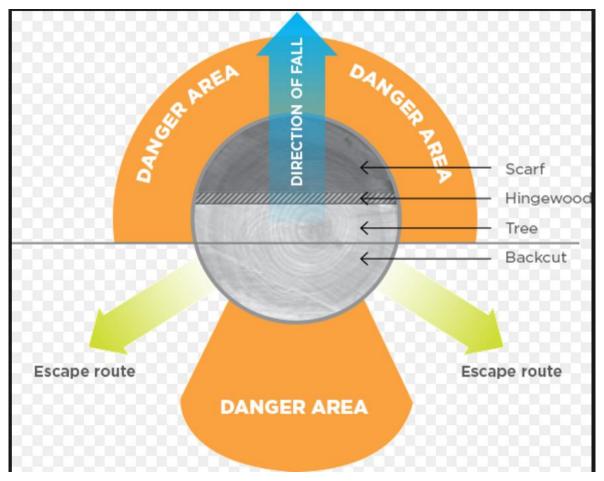
To conduct tree removal works under this contract as enclosed in Appendix A.

2 Methodology

2.1 Preparatory Work

- 1. Check with the tree tags and the size of tree trunk on site corresponding to the initial tree inspection report as well as the layout plan.
- 2. Review the condition of the site and tree and conduct work only if the venue is safe to conduct the work and the tree work operation can be conducted safety. Stop any work if condition is not safe.
- 3. Access slope with safe access such as fixed ladder provided when working on slope.
- 4. All safety equipment (Safety Helmet, Safety Glasses, Safety Shoes, Chaps, Glove, Ear Plug, Climbing Gear, Rigging Tools etc.) will be checked before use.
- 5. All equipment (Hand saw, Pole Saw, Chainsaw, Winch etc.) and machinery if necessary (Lifting Platform and Crane Lorry) certificates will be checked before use.
- 6. Set up traffic cone, warning sign & guarding for the working area to prevent public walking closely and against the hazards of the falling objects within 2 meters around the tree.
- 7. All works should be supervised by Tree Work Supervisor.
- 8. Take photo of tree prior to commencement of tree felling work.
- 9. Check if there is any overhead powerline or any infrastructure such as drainage pipes within the fall zone of the tree.
- 10. Conduct job briefing to brief the works to be carried out and to remind workers regarding the safety matter aroused from the work. Escape route should be prepared and briefed to each tree worker.





- Cordon off the area with warning tape to prevent non tree workers entering the area.
- 12. Designate fall zone and warn workers the area should be entered when tree branches/trunk is prepared and falling into the zone. The area within the fall zone should be cleared and all workers from other trade should be cleared prior to work.

2.2 Branch and Trunk Removal

- 1. The cutting shall be started from the lowest branches and then to the highest branches in general.
- 2. Stumps and rootballs of the trees to be felled should also be completely removed by excavator subject to site condition.
- 3. Rigging gear, ropes, metal chain and winch should be used during the tree removal process.
- 4. Use pole saw to remove branches in first priority.
- 5. A safe zone 2m larger in diameter than flat land should be set up as the working environment has more constraints. No people should enter the safe zone when



chainsaw is in operation.

- 6. A certified Tree climber is necessary if the concerned tree cannot be approached by any vehicle. The climber should follow safety requirements stated in the ANSI Z133.1 and the PS of the Contract.
- 7. The tree climber will access to the tree by rope and cut branches piece by piece
- 8. The branches will be lifted with a winch to a designed drop zone on the top of the slope.
- 9. Heavy branches should be rigged by rigging ropes with certificate specified the work load limit.
- 10. The tree felling process should avoid any damage to adjacent plants to be retained, including damage to their root systems. The ground around the adjacent plants to be retained should also be reinstated.

2.3 Removal of Tree

- 1. The cut branches will be further segmented into pieces by ground man using chainsaw.
- 2. The segmented pieces will then be lifted to the top of the slope using a winch.
- 3. The cut materials will be removed or recycled off-site to temporary shredding facilities (Lot T7) or disposed to designated landfill (NENT).

3 Plant and Equipment

| Safety fence | Hand saw |
|--------------|------------|
| Chainsaw | Pole Saw |
| Winch | Grab lorry |
| Excavator | |

4 Environment Concern

4.1 Noise Control

 The normal daily working hours are 7:00 a.m. to 7:00 p.m. from Monday to Saturday. If necessary, extension of working hours after 7:00 p.m. for weekdays and on Sundays and public holidays will be implemented. All



requirements in Construction Noise Permit (CNP) if granted will be strictly followed.

- 2. Selection of quiet plant and working methods
- 3. Reducing the number of plants operating concurrently
- 4. Providing movable noise barriers/enclosures if necessary
- 5. Shutting down the plants when not in operating

4.2 Air Control

- 1. Using of B5 diesel for all plants and equipment.
- 2. Maintenance of plants periodically to ensure no black smoke emit.
- 3. Using Non-road Mobile Machinery (NRMM) with NRMM label on site.

4.3 Waste Control

1. The general refuse shall always be disposed to the designated refuse collection point and segregation of waste shall be maintained at all times.

4.4 Water Control

- All muddy water produced by the works will be treated and delivered into the designed water treatment facilities (i.e. sedimentation tank) before being discharged into the public drainage system
- 2. Measures will be taken to minimise the muddy water generated from the temporary cut slope surface during rainfall time
- 3. Excavated area will be shielded with impermeable sheeting during rainfall time and after working hours.

5 SAFETY

5.1 Risk Assessment

Rules of manual handling should refer to the **Appendix B – Risk Assessment**. Ensure the load to be handled would not exceed the personal ability.



Otherwise, more manpower resources should be deployed. Adopt a right posture for carrying out manual handling.

5.2 General Site Safety

All workers must go through a briefing by the Supervisor/ Engineer before commencement of any works. All workers on site shall obtain an approved safety training certificate/ record. Pre-use inspection and maintenance checks shall be carried out on all mechanical equipment before commencement of works.

5.3 Working under Inclement Weather Conditions (Red/Black Storm Warning Signal, Thunderstorm Warning, etc.)

Avoid pruning works in rainy days and avoid outdoor activities when thunderstorm signal is hoisted.

5.4 Working under Hot Weather Conditions

Worker should not work alone under extremely hot weather condition. In case the site personnel is suffering from heat stroke, the other co-worker can help in notifying the safety management staff and arrange proper emergency measures for the sufferer.

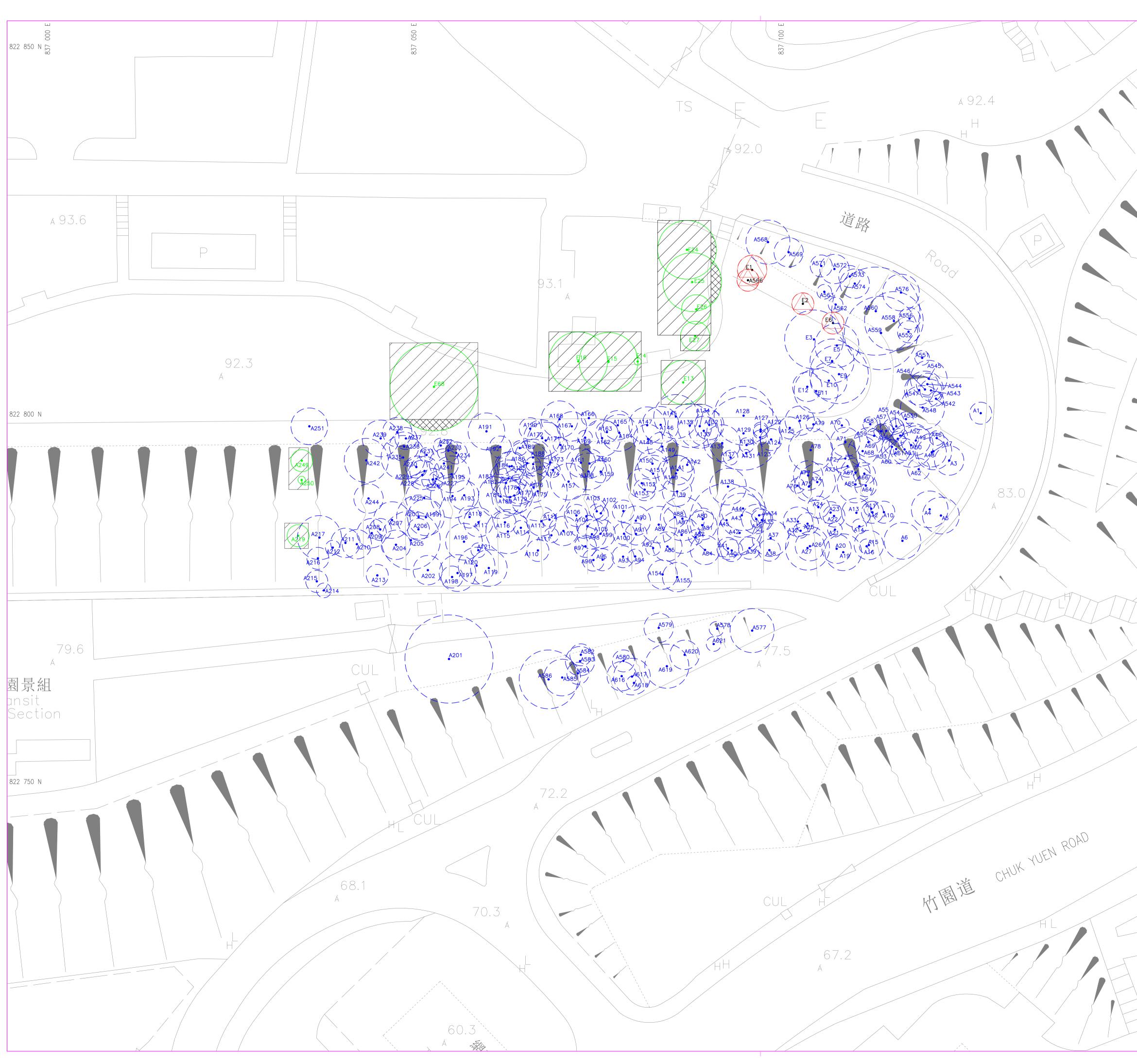
5.5 Personal Protective Equipment and Safety

Safety helmets, safety boots, vest and gloves need to be wore all the time. Safety harness need to be wore while working at height. Safety googles and hearing protectors need to be wore while using the machine which will produce noise or ducts. Warning signs and barriers will be erected where necessary.



Appendix A –

Relevant Drawings



| 7 150 E | | | | | |
|-----------|-----------------|------------------|---|-------------------|--------------------|
| 837 | LEG | END: | PROPOSED TREE | E PROTECTION | |
| | | • | ZONE TREE TO BE RE | TAINED | |
| | | •) | TREE TO BE RE | MOVED AND (| COMPENSATED |
| | | AXXXX | TREES TO BE F | PRUNED | |
| | | | TREES TO BE T | RANSPLANTED | |
| | | | | | |
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| | Initial Date | | | | |
| | Approved | l | | | |
| | | | | | |
| | Contract | No. | 21/WSD | / 2 1 | |
| | Project 1 | | | | |
| 64.3 A | | FRESH | ATION OF DIA WATER AND RESERVOIRS | SALT WAT | ER |
| | 3 | | RESERVUIRS | TO CAVE | КИЗ |
| | Drawing | Title | | | |
| A L | | трг | | | 1 |
| | | IKE | e surve | I PLAP | N |
| | Drawing | No | | | Revision |
| | brawnig | | 76/TR/00´ | | A |
| | Scale | | A1 1 : 25 A3 1 : 50 | 50)0 | |
| | | | 一 水 | 務署 | |
| | | | 7 Water Dep | - Suppl artmer | ies nt |
| | | | | | |
| | | | | 1 | |
| | CH | iun W | /o - Sinc | HYDRO | JV |



Appendix B –

Risk Assessment

Classification of risk

Likelihood rating:

| Pro | Level | Likelihood rating | Prob. Value | Description | Individual Failure Mode |
|-------------|-------|----------------------|------------------|-------------|--|
| oba | А | 5 | 10 ⁻¹ | Frequent | Likely to occur frequently |
| Probability | В | 4 | 10-2 | Probable | Will occur several times in the life |
| | С | 3 | 10 ⁻³ | Occasional | Likely to occur sometimes in some year |
| Levels | D | 2 | 10-4 | Remote | Unlikely but possible to occur in life |
| els | E | E 1 10 | | Improbable | So unlikely that occurrence may not be experienced |

Consequence:

| | Category | Conseq uence | Degree | Description |
|------------|----------|-----------------|---------------|---|
| Severity | A | 5 | Catastrophic | Failure causes complete system lost control and/ or potential for fatalities |
| 22 | В | 4 | Major | Major damage to system and/or amputation injury to personnel |
| Categories | С | 3 | Moderate | Hospitalization for less than 15 days or damage in HK\$100K |
| ories | D | 2 | Minor | Failure will probably occur without major damage to system or injury |
| | E | 1 | Insignificant | Functional failure of machine or process – no potential injury or damage to properties. |

Risk Matrix:

Likelihood rate

| L | M | М | H | |
|---|---------|----------------|---|---|
| L | M | М | M | |
| L | L | M | M | |
| L | L | L | L | 1 |
| 1 | 2 | 3 | 4 | |
| 1 | 2 Co | 3 nsequence | 4 | |

Risk Factor Number (Degree of Risk) = Likelihood X Consequence

The higher the Risk Factor Number, the higher the risk and more safety precautions should be taken.

Degree of Risk and Action Priority:

High (H) – Degree of Risk within the range 15-25

- 1. Review the work procedure immediately;
- 2. Formulate safety measures to reduce the risk to "Low" level;
- 3. Supervision by competent person.

Medium (M) - Degree of Risk within the range 5-14

- 1. Review the work procedure within reasonable time.
- 2. Formulate safety measures to reduce the risk to "Low" level.

Low (L) - Degree of Risk within the range 1-4

1. Follow in-house safety rules and statutory requirements.

*If the control measures are unable to reduce the risk to "Low" level:

- 1. The method statement shall be reviewed by the engineer;
- 2. Re-assess the risk according to the revised method statement and procedures.

| | Activities / | | | Risk Level | | Personal Training Action Protective Priority | Residu al |
|------|---|---|----------------|-----------------|----------------|--|--------------|
| Item | Works | Hazard | Likeli hood | Conseq uence | Risk Factor | Control Measures Follow up by Equipment (H/M/L) | Risk |
| 1., | Preparation Work | Workers expose to the general site hazards | 2 | 1 | 2 | 1. Safety helmets, safety boots and reflective vest should be mandatory and be wore at all times on site and as condition of entry. F Safety Induction Training L 2. Provision of good housekeeping Boots Safety Boots L 3. Site safety supervision should be monitored to the compliance of site. Reflective Vest Vest Vest | 1x1 L |
| 2. | Remove existing debris around the tree be fallen | Struck by falling object | 2 | 3 | 6 | 1. Provide safety training F Safety Induction L 2. Mechanical mean for lifting and transportation ENG Helmet Training L 3. Fenced off the area that tree might be fallen Fenced off the area the area that tree might be fallen <td>2x1 L</td> | 2x1 L |
| 3. | Workers access to tree | Fall of person | 2 | 3 | 6 | 1. Provide a safe mean of access F Safety Working at L 2. Fix ladders securely prior to use on each location of work ENG Harness Height L 3. Provide elevation work platform ASO ASO Image: Constraint of the security | 2x1 L |

| | Activities / | | | Risk Leve | el | | | Personal Protective | Training | Action Priority | Residu al |
|--------|--|--|----------------|-----------------|----------------|--|-----------------------|--|-----------------------|--------------------|--------------|
| Item | Works | Hazard | Likeli hood | Conseq uence | Risk Factor | Control Measures | Follow up by | Equipment | | (H/M/L) | Risk |
| o N | Lifting operation by Mobile Crane Lifting | Fall of heavy loading, jib collapse, (Machinery failure) | 5 | 4 | 20 | Competent engineer to conduct details examination and issue Form 3, 5. Before obtaining the valid certificate, any operation is strictly prohibited. Check the crane everyday by crane operator before operation. Check the crane weekly by appointed operator complete and sign the statutory Form 1 Detail inspection conducted by mechanic monthly. All maintenance record and certificates to be filed and kept in site safety department. Safety officer shall check all certificate of the crane before operation. | F ENG ASO SO | Safety helmet Safety Shoes Hi-Vis Vest | Induction Training | Н | 2x1 L |
| | | Fall of heavy loading (Human error) | 4 | 3 | 12 | Crane operator should be trained by CITA or equivalent and obtained valid operator license. Competent signaler should be appointed. Crane operator, signaler & rigger should attend on-site safety operation training. Never let suspended heavy load unattended. Never over load the mobile crane. Display the safe working load of the crane Fence off the lifting operation zone, adopted permit to enter system, only trained workers is allowed to enter the zone. | F ENG ASO SO | Safety helmet Safety Shoes Hi-Vis Vest | Lifting Operation | Н | 2x1 L |
| | | Lifting gear failure | 5 | 4 | 20 | Riggers shall attached the lifting gear onto lifting point while lifting the limbs Riggers shall checked lifting gears before operation All lifting gear, shackle, lifting wires, webbing slings etc. shall be examined by RPE and obtained valid Form 6, 7. Safety officer to check all certificate of the lifting gear before use and maintain record in the safety department. Color code system of lifting gear shall be applied for easier monitoring. | F ENG ASO SO | | Lifting operation | М | 2x1 L |

| | Activities / | | | Risk Leve | 1 | | | | Personal Protective | Training | Action Priority (H/M/L) | Residu al |
|------|-------------------------|---|----------------|-----------------|----------------|---------------------------|--|-----------------------|------------------------|---------------------------------|-------------------------------|--------------|
| Item | Works | Hazard | Likeli hood | Conseq uence | Risk Factor | | Control Measures | Follow up by | Equipment | | | Risk |
| | | Turnover of mobile crane | 2 | 3 | 6 | • | The outrigger must be fully extended. The mat or the timber blocks of at 3 times diameter of the outrigger and in sound condition shall be provided. Never overload the crane, overload cut off device is recommended to install. The movement of mobile crane must be guided by lifting supervisor or the signaler. Area foreman should arrange a safe access. Signaler should guide the mobile crane. If the ground surface is soft and uneven, use roller to compact the soil surface. | F ENG ASO SO | | Lifting operation | M | 2x1 L |
| | | Suspended loading strike on object or nearby person. | 2 | 3 | 6 | • • • • | The spot of lifting operation should be fully fenced. Warning sign should be displayed. Appointed signaler should guide the operator in the whole lifting process. No trespasser is allowed. Sub-contractor supervisor should be station on spot to supervise the whole operation. All workers should wear safety hamlet and hi-vis vest. If any other heavy machinery is operating in the same time same place, signaler should also coordinate the machinery movement. | F ENG ASO SO | Hi-vis vest | Lifting operation | M | 2x1 L |
| 5. | Use of cherry picker | Fall of person | 2 | 4 | 8 | 2. U 1 3. H 4. M | Provide safety training of cherry picker Use of safety harness and independent life line Ensure cherry picker with valid certificate Not over the safety working load of cherry picker | F ENG SO | Safety Harness | Safe use of cherry picker | M | lx1 L |

| | Activities / Works | Hazard | Risk Level | | | | | | Personal Protective | Training | Action Priority | Residu al |
|------|---|-------------------|----------------|-----------------|----------------|----------------|---|--------------|---|----------------------|--------------------|--------------|
| Item | | | Likeli hood | Conseq uence | Risk Factor | | Control Measures | Follow up by | Equipment | | (H/M/L) | Risk |
| 6. | Use of electric hand tools and chainsaws to cut the wing and branches | Electric shock | 2 | 4 | 8 | 1. 2. 3. | The generator and power hand tools to be inspected by qualified electrician, recorded and labeled before use Workers to visual inspect electric hand tools are in good condition on daily basis before use Ensure electric hand tools are IP67 standard and 110V | F SO | Safety helmet Safety boots Reflective Vest | Electrical Safety | Μ | 1x2 L |
| | | Noise hazard | 2 | 3 | 6 | 1. 2. 3. | Noise Assessment Hearing protection zone marked People working in the hearing protection zone must wear ear protection equipment | F ASO | Hearing protector | Noise Protection | L | 1x2 L |
| | | Falling Object | 2 | 2 | 4 | 1. | To setup rigid barrier along working area and display warning | F ASO | Safety Helmet | Falling Object | L | 1x1 L |
| | | Body injury | 2 | 2 | 4 | 1. | Warning protective clothing and safety gloves | F ASO | Safety Gloves Protective Clothes | Proper use of PPE | L | lx1 L |
| | | Manual handing | 2 | 3 | 6 | 1. 2. | Provide safety training To use mechanical mean for lifting and transportation | F ASO | Safety Gloves | Manual Handling | L | 1x1 L |

| | Activities / | | | Risk Leve | el | | | Personal Protective | Training | Action Priority (H/M/L) | Residu al Risk |
|------|-----------------------------|--|----------------|-----------------|----------------|---|------------------|------------------------|----------------------------------|-------------------------------|----------------------|
| Item | Works | Hazard | Likeli hood | Conseq uence | Risk Factor | Control Measures | Follow up by | Equipment | | | |
| 7. | General works activities | Heatstroke | 2 | 2 | 4 | Allow workers to take regular breaks or rotate to other area within the shift to reduce exposure to the hot environment. Make arrangements for workers to rest in a cool or shady place during very hot periods. Provide cool portable water for workers during work and encourage them to take plenty of water to replenish the fluid lost through sweating. Encourage them to wear light-colored clothing to minimize heat absorption and enhance heat dissipation. Request supervisor to pay attention to any report of workers suffering from Symptoms of heat stroke. When temperature is higher than 40 °C, no work shall be allowed. Provide constant ventilation to reduce temperature inside. | ENG SO ASO | N/A | Heatstrok e Preventio n | L | 1X2 L |
| | | Lightning Warnings / Typhoon and Heavy Rainstorm Signal | 4 | 3 | 12 | Assign Site's responsible person to monitor weather conditions (such as Hong Kong Observatory – Lightning Location Information) Suspension and resumption of outdoor activities shall be planned in advance. Safe execution procedures shall be set up and let all employees familiar with safe precautions include but not limited to: (1) All construction materials must be properly protected against damage. (2) Booms and jibs of cranes and heavy mechanical equipment should be lowered to the ground and adequately secured. (3) Non-essential electricity supplies must be isolated. | ENG SO ASO | N/A | N/A | L | 1X2 L |



Appendix C –

Relevant training and qualifications



LI Tin Sum

Staff Curriculum Vitae

| Professional History 10/2016 – Present | | Foreman | | | |
|---|--|--|------|--|--|
| 01/2015 – 10/2016 | | Muni Arborist Limited Tree Climber Dragon Tree and Landscape Contractor Ltd | | | |
| Academic Tra | ining | | | | |
| Prof. Cert | Professional Cer Arboriculture and Work Supervisio | d Tree | 2018 | IVE | |
| Diploma | Arboriculture | | 2017 | The Chinese University of Hong Kong | |
| Professional | Qualification | | | | |
| Certified Tree Worker | | | 2018 | International Society of Arboriculture (ISA) | |
| Qualified Chainsaw and Pruning (G | | (Ground) | 2017 | International Society of Arboriculture Hong | |
| Technician | | | | Kong Chapter (ISAHK) | |
| Supervision of Tree Works | | | 2016 | Construction Industry Council | |
| Occupational Safety and Health in Arboriculture | | ſ | 2015 | Occupational Safety and Health Council | |



This is to certify that

LI Tin Sum

having completed a programme of study and passed the requisite assessments and satisfied all other requirements is hereby awarded

Professional Certificate in Arboriculture and Tree Work Supervision (Pass)

by the Vocational Training Council, Hong Kong Given this Second day of November, Two Thousand and Eighteen

茲證明

李天琛

修畢課程成績及格 職業訓練局依章授予

樹藝學及樹木工作監督專業證書 (合格)

二零一八年十一月二日

Dr. WONG Sin Ying, Lillian, Principal Hong Kong Institute of Vocational Education (Sha Tin) 香港專業教育學院(沙田)院長 黃倩瑛博士

Mrs. Carrie Yau, Executive Director Vocational Training Council 職業訓練局執行幹事尤曾家麗女士





香港中文大學專業進修學院 School of Continuing and Professional Studies The Chinese University of Hong Kong

> 茲證明 This is to certify that

> > 李天琛 LI, Tin Sum

考試及格照章授予 樹藝文憑

having passed the requisite examinations has this day been awarded the

Diploma in Arboriculture

二零一七年七月四日 4 July 2017

TUNN BELLE

w.y.P.

Chairman

大學擴展教育課程局主席

University Extension Board

專業進修學院院長 Director School of Continu

School of Continuing and Professional Studies

aleran



職業安全健康局

OCCUPATIONAL SAFETY & HEALTH COUNCIL

茲證明

李天琛

於二零一五年八月八日至二零一五年八月十五日 完成一項由本局主辦之

樹藝工作安全健康

並授予乙張

培訓證書

This is to certify that

LI TIN SUM

has completed a training course on 8 August 2015 to 15 August 2015 conducted by this Council on

Occupational Safety and Health in Arboriculture

and has been awarded a

Training Certificate





Bonnie YAU 游雯 Executive Director 總幹事 15 August 2015



CONSTRUCTION INDUSTRY COUNCIL 建造業議會

This is to certify that

LI, Tin Sum

has successfully completed

an 18-hour SUPERVISION OF TREE WORKS COURSE

on 27 April 2016

茲證明

李天琛

於二零一六年四月二十七日修畢

十八小時 樹木工程監管課程



International Society of Arboriculture (ISA) - Hong Kong Chapter 國際樹木學會香港分部

April 6, 2018

Dear Li Tin Sum 李天琛, Flat H, 16/F, Blk 1, Melody Garden, Tuen Mun



The certification valid period is extended to 5 years

We are pleased to inform you that the expiration date of your Certificate of Qualified Chainsaw and Pruning (Ground) Technician Assessment [QCPT] has been automatically extended from 30 Jul, 2020 to 30 Jul, 2022. The valid period of this certification has been changed from 3 years to 5 years which has been effective from 2018.

The updated certificate is attached. Thank you for your support to ISA Hong Kong Chapter.

證書有效期由三年改為五年

本學會分部現誠意通知您關於您的電油鋸及修剪(地上)技師證書之有效期 將自動由二〇二〇年七月三十日延長至二〇二二年七月三十日。由二〇一八年 起,所有該證書之有效期均由原本之三年改為五年。

現附上已更新之證書。感謝您對國際樹木學會香港分部的支持。

ISA Hong Kong chapter 國際樹木學會香港分部

二〇一八年四月六日

INTERNATIONAL SOCIETY OF RBORICULTURE HONG KONG CHAPTER

05

Sir

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17

THIS CERTIFIES THAT

QCPT

ISA

LI TIN SUM

Board of ISA - Hong Kong Chapter, and is therefore recognized as has successfully completed the requirements established by the

QUALIFIED CHAINSAW AND PRUNING (GROUND) TECHNICIAN (QCPT)

102

705

Certification Committee Chair, ISA Hong Kong Chapter

QCPT-0027 Certificate No.

d 01

4.2

4.2

S.P

902

30 Jul, 2022 **Expiration Date**

30 Jul, 2017

Certified Date

INTERNATIONAL SOCIETY OF ARBORICULTURE CERTIFIED TREE WORKER CLIMBER SPECIALIST[™]

Tin Sum Li

Having successfully completed the requirements set by the International Society of Arboriculture, the above named is hereby recognized as an ISA Certified Tree Worker Climber Specialist®

22 Apr 2018

Certified Since



Kevin Martlage Director of Credentialing International Society of Arboriculture

Caitlyn Pollihan **Executive Director** International Society of Arboriculture

HK-1624T Certification Number 30 Jun 2021

Expiration Date



Man Chun Ning

Staff Curriculum Vitae

Professional History

9/2020 - Present

Project Coordinator Muni Arborist Limited

Academic Training

| Prof. Dip. | Professional Diploma in |
|------------|----------------------------|
| | Horticulture and Landscape |
| | Management |

2021

Technological and Higher Education Institute of Hong Kong (THEI)



Member of VTC Group VTC 機構成員

Technological and Higher Education Institute of Hong Kong TRANSCRIPT OF STUDY

| Name : | MAN Chun Ning | | Student No. : | 174115460 |
|--------------|---------------|--|-----------------|------------|
| Study Mode : | Part-time | | I.D. Card No. : | Y100518(7) |
| | | | | |

Programme : Professional Diploma in Horticulture and Landscape Management Programme Code : DS524101

| М | odule | Completion Date | Contact Hours | Credit Point | Grade |
|-------------|--|------------------|------------------|-----------------|-------|
| Academic Ye | ears 2018/2019 and 2019/2020 | | | | |
| DHL41001 | Plant Knowledge | 12 November 2018 | 42 | 3 | D |
| DHL41002 | Plant Culture | 12 December 2019 | 42 | 3 | C+ |
| DHL41003 | Plant Protection and Tree Biomechanics | 14 July 2020 | 42 | 3 | В- |
| DHL41004 | Plant Biology | 9 November 2019 | 28 | 2 | D+ |
| DHL42001 | Communication Skill | 3 October 2018 | 28 | 2 | C+ |
| DHL42002 | Landscape Construction | 15 April 2019 | 28 | 2 | В- |
| DHL42003 | Tree Risk Assessment and Mitigation | 29 July 2019 | 42 | 3 | C- |
| DHL42004 | Arboriculture and Landscape Management | 9 September 2019 | 28 | 2 | С |

Cumulative Credit Points Attained : 20 Cumulative Credit Points Exempted : 0

Award : Pass in Professional Diploma in Horticulture and Landscape Management [Award Date: 9 February 2021]



acen

Registrar

Date: 1 March 2021

Please read the notes on the last page.

Page 1 of 2



Member of VTC Group VTC 機構成員

Notes

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Except for Modules which are assessed on a Pass/Fail (P/F) basis, student's performance in a module is expressed in Grades with A being the highest grade, D the minimum passing grade and F for fail.

| Grade | Description of Standard# |
|-------|---|
| А | Excellent |
| A- | Excellent |
| B+ | Very Good |
| В | very Obou |
| В- | Good |
| C+ | Satisfactory |
| С | Satisfactory |
| C- | |
| D+ | Pass |
| D | initalitette Etallina anni yenne and Initalitette Etallina |
| F | Fail |

Not applicable to modules assessed on a P/F basis

- Supplementary Assessment
 Incomplete
 Exempted from study with or without credit transfer
 Withdrawal
- WF : Withdrawal with Failure
- @ : Module assessed on a P (Pass) / F (Fail) basis

PDHLM AY2017/18 Class B – ETSS Reimbursement

Faculty of Design and Environment, THEi <thei-fde@vtc.edu.hk>

週四 2020/7/30 下午 02:12 **副本:** LO YUK MING <rymlo@vtc.edu.hk>; Yelo Wong <yelow@vtc.edu.hk> Dear Students,

Kindly note that the ETSS reimbursed / to reimburse the following modules for your information <u>if you found successfully completed the module</u>:-

April 2019

| Module Code | Module Name | Credit Points |
|-------------|---------------------|---------------|
| DHL42001 | Communication Skill | 2 |

October 2019

| Module Code | Module Name | Credit Points |
|-------------|---------------|---------------|
| DHL41004 | Plant Biology | 2 |

August 2020

| Module Code | Module Name | Credit Points |
|-------------|--|---------------|
| DHL41001 | Plant Knowledge | 3 |
| DHL41002 | Plant Culture | 3 |
| DHL41003 | Plant Protection and Tree Biomechanics | 3 |
| DHL42002 | Landscape Construction | 2 |
| DHL42003 | Tree Risk Assessment and Mitigation | 3 |
| DHL42004 | Arboriculture and Landscape Management | 2 |

60% of tuition fee of the aforementioned modules will be reimbursed (Credit Points x \$2,250 per credit point x 60%) to your bank account registered to ETSS. Depends on your bank registered to ETSS, some more time may be needed for handling transaction. Should you have enquiries on the ETSS scheme, please contact ETSS Enquiry Hotline at 2435 9423 or by email at <u>vplus@vtc.edu.hk</u>.

Best regards Faculty of Design and Environment Technological and Higher Education Institute of Hong Kong (THEi)

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Contract No: **21/WSD/21**



Project Title:

Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns

Method Statement – Tree Transplanting Work

Document No: CWSJV/1067/MSSF/00011

Revision: 0

Date: 10 February 2023



Method Statement – Tree Transplanting Work

Revision History

| Revision No. | Description | Revised By | Date |
|--------------|-------------|------------|------------------|
| 0 | First Issue | Kevin TAM | 10 February 2023 |
| | | | |
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Method Statement –

Tree Transplanting Work

| Document No: | CWSJV/1067/MSSF/00011 |
|--------------|-----------------------|
|--------------|-----------------------|

| Revision: | 0 |
|-----------|------------------|
| Date: | 10 February 2023 |

Prepared and checked:

| Position | Signature | Name | Date |
|------------------------------|-----------|-------------|------------------|
| Engineer | leh | Kevin Tam | 10 February 2023 |
| Assistant Project Manager | Itin Ho | Felix Ho | 10 February 2023 |
| Environmental Officer | AN | Gemini Lam | 10 February 2023 |
| Safety Officer | f | Eddie Chung | 10 February 2023 |
| | | | |

Approved by:

| Site Agent | into | Kenny Poon | 10 February 2023 |
|------------|------|------------|------------------|



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1 General

1.1 Objective

This method statement describes the sequence and method of tree transplanting under this contract.

1.2 Scope of works

To conduct tree transplanting work under this contract as attached in **Appendix A**. Justifications on the feasibility of transplanting are also listed in **Appendix B**.

2 Methodology

2.1 Preparatory Work

- 1. The tree species and tree tag should be checked to confirm it is the approved transplant tree.
- Cables and nearby utilities detection as well as protection should be carried out by the competent person from main contractor in case of any underground utilities were laid within the area of root pruning and its vicinity prior to commencement of root pruning works.
- 3. All equipment and machinery certificates will be checked before use.
- 4. Lifting cables, chains, straps, and/or slings shall be inspected and used according to manufactures' instructions and specifications.
- 5. Digging and root pruning tools shall be sharp and clean in order to cut without breaking, crushing or tearing roots.
- Safety precautions shall be taken to protect those engaged in operation as well as people and properties in the vicinity. A cordon off area which is 2 meters from the working area will be setup to avoid people walking closely and against the hazards of the falling objects.
- 7. Working area shall be restricted from outsiders.
- 8. On-site Tree Work Supervisor should supervise the transplant works, and give advice if necessary.



2.2 Site Preparation of Final Receptor Site

- 1. The final location will be graded with backhoe excavator with well surface drain, weeds will be removed.
- 2. Bamboo stake scaffolding or guy wires will be installed in order to secure the transplanted tree against strong wind.
- 3. The trees will be watered at least twice a week for the first month after transplant.
- 4. Upon arrival of the final location, all ties on branches will be removed.
- 5. All transplanted trees will be kept upright with guy wires or bamboo stake scaffolding with protection pad at all times within the final location.
- 6. Photographic record of the transplanted trees will be submitted in quarterly monitoring report.

2.3 Crown Pruning

- Crown cleaning as well as thinning subject to tree species and health condition in order to remove unhealthy, damaged, diseased, dead branches so as to minimise susceptibility to pests and diseases and reduce water loss through transpiration.
- 2. Pruning should not over 25% of crown under normal situation.

2.4 Root-ball Preparation

- A maximum size of root-ball (1m) will be maintained whereas practical and necessary to ensure the higher survival rate for transplant trees. Since many of the trees are confined in planter or restricted by concrete/facilities, size of the root-ball is subject to site condition.
- 2. The trench size of root ball should be at least 300mm wide and 1000mm deep if the site condition allows.
- 3. The depth of the root-ball should be not less than 600mm deep unless there is site constraint such as slope or planter.
- 4. The proposed circumference of the root-ball will be marked on ground and approved by the Supervisor.



- 5. Roots which are severed in the course of root pruning shall be cut cleanly.
- 6. Root activator shall be applied at regular intervals according to the manufacturer's instruction.
- 7. 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.
- 8. Adequate support e.g. staking or guy wires will be provided for all transplant trees in all stages and will be checked regularly.
- 9. Damp hessians should cover the root ball throughout the time of uplifting until the tree is transplanted to receptor site.

10. Photographic record of all transplant stages will be provided.

2.5 Tree Lifting and Transportation

1. Proper access including piling of metal platforms above the concrete covers should be provided to facilitate the entry and parking for heavy crane/lorry.

2. The tree will be supported by crane lorry before the under cutting work.

3. During uplifting, the tree will be lifted by its root ball which is properly prepared and wrapped.

4. The trunk and branches should be padded with several thickness of burlap to prevent damages and injury during the transplanting operation. Avoid using self-tightening slings around trunk or branches in order not to bruise or rupture the bark.

5. The nylon straps will be used to secure the root ball during lifting.

6. Root ball will be undercut by hand saw or pruner to allow the tree to be lifted free from ground with the soil intact as far as practical. The base of the root-ball will be properly wrapped and protected during uplifting.

7. The cables for lifting will be wrapped with protective rubber sheaf to prevent damage.



8. The lifted trees will be placed lying flat on the truck platform or long trailer. 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.

9. Trees shall be transplanted to the designated location within 2 hours after lifting.

10. When necessary, pruning will be conducted to facilitate passage and transport to receptor site.

11. Tree Work Supervisor will supervise the uplifting work.

12. Trees will be transplanted to the receptor site upon confirmation from the Supervisor.



2.6 Post-transplanting/ Establishment Work

- 1. Immediately after transplanting, transplanted trees shall be well watered, using enough water to thoroughly soak the root-ball.
 - 2. Trees shall be treated with establishment works for 12 months. The following general maintenance works shall be carried out during the establishment period according to general specification:
 - Watering
 - Mulching
 - Firming up by guying/bamboo staking
 - Litter collection
 - Pruning
 - Root activator if instructed
 - Control of pest and disease
 - Post-planting fertilizing at least two applications
 - Quarterly inspection and provide quarterly photo record showing the condition of transplanted trees

4 Plant and Equipment

| Safety fence | Backhoe excavator |
|---------------|-------------------|
| Crane lorry | Guy wires |
| Pruner | Nylon straps |
| Shovels | Tarpaulins |
| Chainsaw | Hessian mat |
| Gasoline saw | Wire net |
| Round sling | Truck platform |
| Steel shackle | 75tons RB |



5 Environment Concern

5.1 Noise Control

- The normal daily working hours are 7:00 a.m. to 7:00 p.m. from Monday to Saturday. If necessary, extension of working hours after 7:00 p.m. for weekdays and on Sundays and public holidays will be implemented. All requirements in Construction Noise Permit (CNP) if granted will be strictly followed.
- 2. Selection of quiet plant and working methods
- 3. Reducing the number of plants operating concurrently
- 4. Providing movable noise barriers/enclosures if necessary
- 5. Shutting down the plants when not in operating

5.2 Air Control

- 1. Using of B5 diesel for all plants and equipment.
- 2. Maintenance of plants periodically to ensure no black smoke emit.
- 3. Using Non-road Mobile Machinery (NRMM) with NRMM label on site.

5.3 Waste Control

- 1. The general refuse shall always be disposed to the designated refuse collection point and segregation of waste shall be maintained at all times.
- 2. Yard waste will be disposed to Y Park

5.4 Water Control

- All muddy water produced by the works will be treated and delivered into the designed water treatment facilities (i.e. sedimentation tank) before being discharged into the public drainage system
- 2. Measures will be taken to minimise the muddy water generated from the temporary cut slope surface during rainfall time
- 3. Excavated area will be shielded with impermeable sheeting during rainfall time and after working hours.



6 SAFETY

6.1 Risk Assessment

Rules of manual handling should refer to the **Appendix B – Risk Assessment**. Ensure the load to be handled would not exceed the personal ability. Otherwise, more manpower resources should be deployed. Adopt a right posture for carrying out manual handling.

6.2 General Site Safety

All workers must go through a briefing by the Supervisor/ Engineer before commencement of any works. All workers on site shall obtain an approved safety training certificate/ record. Pre-use inspection and maintenance checks shall be carried out on all mechanical equipment before commencement of works.

6.3 Working under Inclement Weather Conditions (Red/Black Storm Warning Signal, Thunderstorm Warning, etc.)

Avoid pruning works in rainy days and avoid outdoor activities when thunderstorm signal is hoisted.

6.4 Working under Hot Weather Conditions

Worker should not work alone under extremely hot weather condition. In case the site personnel is suffering from heat stroke, the other co-worker can help in notifying the safety management staff and arrange proper emergency measures for the sufferer.

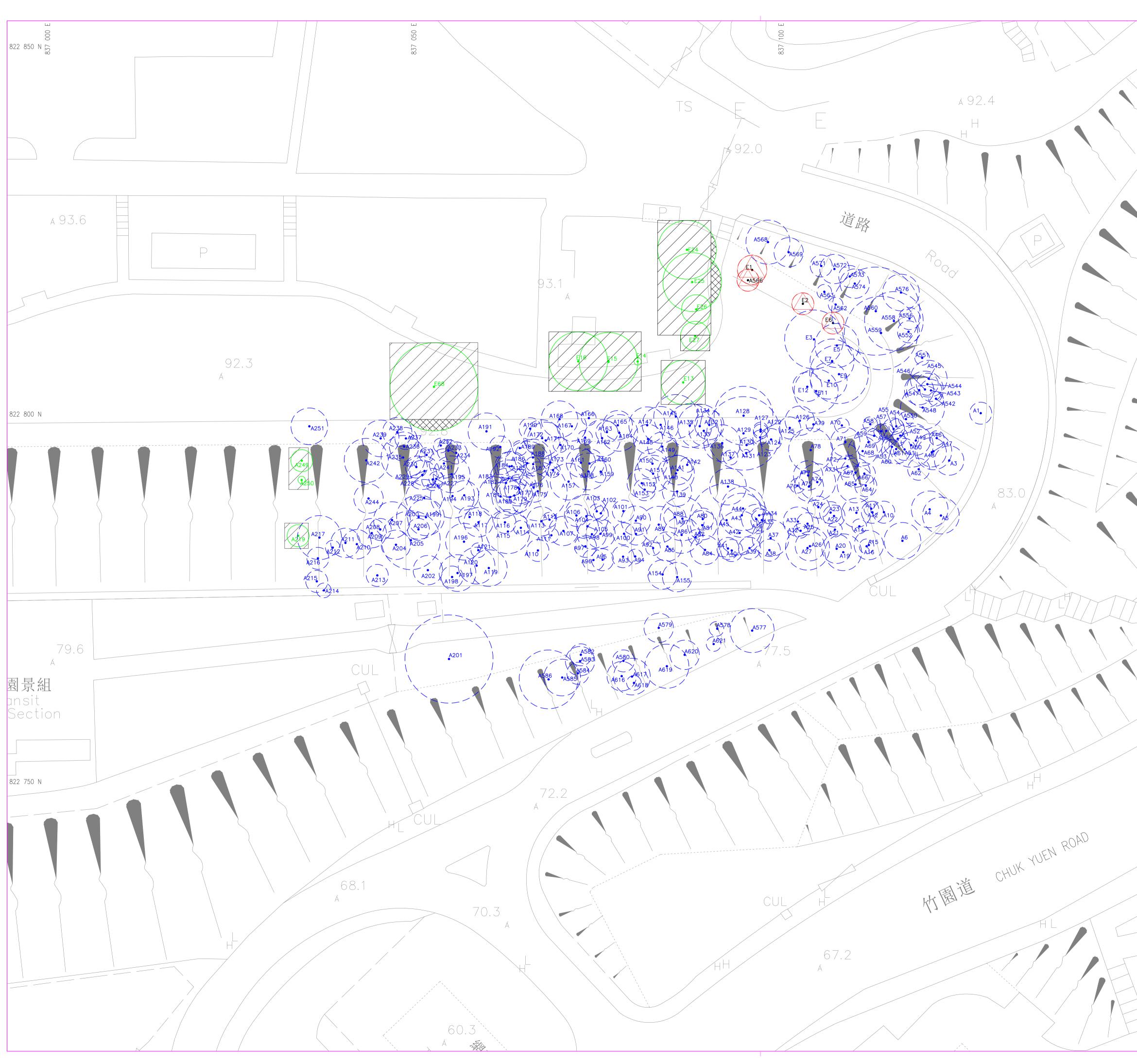
6.5 Personal Protective Equipment and Safety

Safety helmets, safety boots, vest and gloves need to be wore all the time. Safety harness need to be wore while working at height. Safety googles and hearing protectors need to be wore while using the machine which will produce noise or ducts. Warning signs and barriers will be erected where necessary.



Appendix A –

Relevant Drawings



| 7 150 E | | | | | |
|---------|------------------|---------------------|------------------------|--------------|---------------|
| 837 | LEG | END: | PROPOSED TREE | E PROTECTION | |
| | | • | ZONE TREE TO BE RE | TAINED | |
| | | •) | TREE TO BE RE | MOVED AND (| COMPENSATED |
| | | AXXXX | TREES TO BE F | PRUNED | |
| | | | TREES TO BE T | RANSPLANTED | |
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Appendix B –

Risk Assessment

Classification of risk

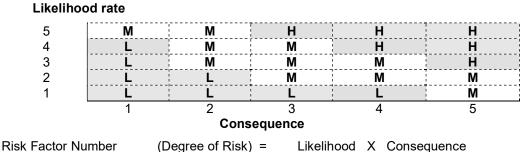
Likelihood rating:

| Pro | Level | Likelihood rating | Prob. Value | Description | Individual Failure Mode | | | | | |
|-------------|-------|----------------------|------------------|-------------|---|--|--|--|--|--|
| sqc | А | 5 | 10 ⁻¹ | Frequent | Likely to occur frequently | | | | | |
| Probability | В | 4 | 10 ⁻² | Probable | Will occur several times in the life | | | | | |
| | С | 3 | 10 ⁻³ | Occasional | Likely to occur sometimes in some year | | | | | |
| Levels | D | 2 | 10-4 | Remote | Unlikely but possible to occur in life | | | | | |
| els | E | 1 | 10 ⁻⁵ | Improbable | So unlikely that occurrence may not be experienced | | | | | |

Consequence:

| | Category | Conseq | Degree | Description |
|------------|----------|--------|---------------|--|
| | | uence | | |
| Severity | A | 5 | Catastrophic | Failure causes complete system lost control and/ or potential for fatalities |
| erity C | В | 4 | Major | Major damage to system and/or amputation injury to personnel |
| Categories | С | 3 | Moderate | Hospitalization for less than 15 days or damage in HK\$100K |
| ories | D | 2 | Minor | Failure will probably occur without major damage to system or injury |
| | E | 1 | Insignificant | Functional failure of machine or process – no potential injury or damage to properties. |

Risk Matrix:



The higher the Risk Factor Number, the higher the risk and more safety precautions should be taken.

Degree of Risk and Action Priority:

High (H) – Degree of Risk within the range 15-25

- 1. Review the work procedure immediately;
- 2. Formulate safety measures to reduce the risk to "Low" level;
- 3. Supervision by competent person.

Medium (M) - Degree of Risk within the range 5-14

- 1. Review the work procedure within reasonable time.
- 2. Formulate safety measures to reduce the risk to "Low" level.

Low (L) - Degree of Risk within the range 1-4

1. Follow in-house safety rules and statutory requirements.

*If the control measures are unable to reduce the risk to "Low" level:

- 1. The method statement shall be reviewed by the engineer;
- 2. Re-assess the risk according to the revised method statement and procedures.

| | Activities / | | | Risk Leve | el | | | Personal Protective | Training | Action Priority | Residu al |
|------|---------------------------|---|----------------|-----------------|----------------|---|-----------------------|---|-----------------------|--------------------|--------------|
| Item | Works | Hazard | Likeli hood | Conseq uence | Risk Factor | Control Measures | Follow up by | Equipment | | (H/M/L) | Risk |
| 1. | Preparation Work | Workers expose to the general site hazards | 2 | 1 | 2 | Safety helmets, safety boots and reflective vest should be mandatory and be wore at all times on site and as condition of entry. Provision of good housekeeping Site safety supervision should be monitored to the compliance of site. | F ASO | Safety Helmet Safety Boots Reflective Vest | Induction Training | L | 1x1 L |
| 2. | Workers access to tree | Fall of person | 2 | 3 | 6 | Provide a safe mean of access Fix ladders securely prior to use on each location of work Provide elevation work platform Prohibit the ladders used for working more than 2 metres high activity Use of safety harness and independent life line | F ENG ASO | Safety Harness | Working at Height | L | 2x1 L |
| 3. | Delivery of nos tree | Fall of Tree | 2 | 5 | 10 | Ensure the crane operator is holding a valid license. Ensure all LA/LG holding a valid license before use. Do not exceed the SWL and allowable lifting angle. The SWL should be clearly shown Appoint a banksman or rigger to conduct lifting operation. | SO F SuA ASO | Safety helmet Safety shoes Hi-Vis Vest Whistle | Lifting operation | Н | 1X4 L |

| | Activities / | | | Risk Leve | 21 | | | Personal Protective | Training | Action Priority | Residu al |
|------|--|---|----------------|-----------------|----------------|--|-----------------------|--|---|--------------------|----------------------|
| Item | Works | Hazard | Likeli hood | Conseq uence | Risk Factor | Control Measures | Follow up by | Equipment | | (H/M/L) | Risk |
| 4. | Lifting operation by Mobile Crane Lifting | Fall of heavy loading, jib collapse, (Machinery failure) Fall of heavy loading (Human error) | 5 | 3 | 20 | Competent engineer to conduct details examination and issue Form 3, 5. Before obtaining the valid certificate, any operation is strictly prohibited. Check the crane everyday by crane operator before operation. Check the crane weekly by appointed operator complete and sign the statutory Form 1 Detail inspection conducted by mechanic monthly. All maintenance record and certificates to be filed and kept in site safety department. Safety officer shall check all certificate of the crane before operation. Crane operator should be trained by CITA or equivalent and obtained valid operator license. Competent signaler should be appointed. Crane operator, signaler & rigger should attend on-site safety operation training. Never let suspended heavy load unattended. Never over load the mobile crane. Display the safe working load of the crane Fence off the lifting operation zone, adopted permit to enter system, only trained workers is allowed to enter the zone. | F ENG ASO SO | Safety helmet Safety Shoes Hi-Vis Vest Safety helmet Safety Shoes Hi-Vis Vest | Induction Training Lifting Operation | Н | 2x1 L 2x1 L |

| | Activities / | | | Risk Leve | el | | | Personal Protective | Training | Action Priority | Residu al |
|------|--------------|---|----------------|-----------------|----------------|---|-----------------------|------------------------|----------------------|--------------------|--------------|
| Item | Works | Hazard | Likeli hood | Conseq uence | Risk Factor | Control Measures | Follow up by | Equipment | | (H/M/L) | Risk |
| | | Lifting gear failure | 5 | 4 | 20 | Riggers shall attached the lifting gear onto lifting point while lifting the limbs Riggers shall checked lifting gears before operation All lifting gear, shackle, lifting wires, webbing slings etc. shall be examined by RPE and obtained valid Form 6, 7. Safety officer to check all certificate of the lifting gear before use and maintain record in the safety department. Color code system of lifting gear shall be applied for easier monitoring. | F ENG ASO SO | | Lifting operation | M | 2x1 L |
| | | Turnover of mobile crane | 2 | 3 | 6 | The outrigger must be fully extended. The mat or the timber blocks of at 3 times diameter of the outrigger and in sound condition shall be provided. Never overload the crane, overload cut off device is recommended to install. The movement of mobile crane must be guided by lifting supervisor or the signaler. Area foreman should arrange a safe access. Signaler should guide the mobile crane. If the ground surface is soft and uneven, use roller to compact the soil surface. | F ENG ASO SO | | Lifting operation | M | 2x1 L |
| | | Suspended loading strike on object or nearby person. | 2 | 3 | 6 | The spot of lifting operation should be fully fenced. Warning sign should be displayed. Appointed signaler should guide the operator in the whole lifting process. No trespasser is allowed. Sub-contractor supervisor should be station on spot to supervise the whole operation. All workers should wear safety hamlet and hi-vis vest. If any other heavy machinery is operating in the same time same place, signaler should also coordinate the machinery movement. | F ENG ASO SO | Hi-vis vest | Lifting operation | M | 2x1 L |

| | Activities / | | | Risk Leve | el | | | Personal Protective | Training | Action Priority | Residu al |
|------|---|-----------------------|----------------|-----------------|----------------|--|-----------------|---|--|--------------------|--------------|
| Item | Works | Hazard | Likeli hood | Conseq uence | Risk Factor | Control Measures | Follow up by | Equipment | | (H/M/L) | Risk |
| 5. | Use of working platform / scissors platform / Cheery Picker | Fall of person | 2 | 4 | 8 | Ensure working platform provide double guardrails and toe board. Ensure safe access to the working platform Training for scissors platform or cherry picker should be provided. | F ENG SO | Safety Harness | Work at Height Scissors platform Cherry picker | М | 1x1 L |
| | | Fall of hand tools | 2 | 3 | 6 | Provide lanyard to the hand tools Ensure toe board provided to the working platform | F SO ASO | Safety helmet | Safe use of Hand Tools | L | 1x1 L |
| 6. | Use of electric hand tools and chainsaws to cut the wing and branches | Electric shock | 2 | 4 | 8 | The generator and power hand tools to be inspected by qualified electrician, recorded and labeled before use Workers to visual inspect electric hand tools are in good condition on daily basis before use Ensure electric hand tools are IP67 standard and 110V | FSO | Safety helmet Safety boots Reflective Vest | Electrical Safety | М | lx2 L |
| | | Noise hazard | 2 | 3 | 6 | Noise Assessment Hearing protection zone marked People working in the hearing protection zone must wear ear protection equipment | F ASO | Hearing protector | Noise Protection | L | 1x2 L |
| | | Falling Object | 2 | 2 | 4 | 1. To setup rigid barrier along working area and display warning | F ASO | Safety Helmet | Falling Object | L | 1x1 L |
| | | Body injury | 2 | 2 | 4 | Warning protective clothing and safety gloves | F ASO | Safety Gloves Protective Clothes | Proper use of PPE | L | 1x1 L |
| | | Manual handing | 2 | 3 | 6 | Provide safety training To use mechanical mean for lifting and transportation | F ASO | Safety Gloves | Manual Handling | L | 1x1 L |

| | Activities / | | | Risk Leve | 1 | | | Personal Protective | Training | Action Priority | Residu al |
|------|-----------------------------|--------------------|----------------|-----------------|----------------|---|------------------|------------------------|--------------------------|--------------------|--------------|
| Item | Works | Hazard | Likeli hood | Conseq uence | Risk Factor | Control Measures | Follow up by | Equipment | | (H/M/L) | Risk |
| 7. | Excavation | Manual Handling | 2 | 2 | 4 | Provide tool or support for shear wrench while tightening Make use of tools or equipment to assist the delivery of materials. Maintain good and proper gesture to mobilize materials. Carry out manual handling risk assessment to the works if necessary. | SO F ENG | Safety Gloves | Manual Handling | М | 1x2 L |
| | | Fall to pit | 2 | 3 | 6 | 1. Fenced off properly of pit | SO F ENG | Safety Helmet | Housekeepin g | L | 1x1 L |
| 8. | General works activities | Heatstroke | 2 | 2 | 4 | Allow workers to take regular breaks or rotate to other area within the shift to reduce exposure to the hot environment. Make arrangements for workers to rest in a cool or shady place during very hot periods. Provide cool portable water for workers during work and encourage them to take plenty of water to replenish the fluid lost through sweating. Encourage them to wear light- colored clothing to minimize heat absorption and enhance heat dissipation. Request supervisor to pay attention to any report of workers suffering from Symptoms of heat stroke. When temperature is higher than 40°C, no work shall be allowed. Provide constant ventilation to reduce temperature inside. | ENG SO ASO | N/A | Heatstroke Prevention | L | 1X2 L |

| | Activities / | | | Risk Leve | el | | | Personal Protective | Training | Action Priority | Residu al |
|------|--------------|--|----------------|-----------------|----------------|--|------------------|------------------------|----------|--------------------|--------------|
| Item | Works | Hazard | Likeli hood | Conseq uence | Risk Factor | Control Measures | Follow up by | Equipment | | (H/M/L) | Risk |
| | | Lightning Warnings / Typhoon and Heavy Rainstorm Signal | 4 | 3 | 12 | Assign Site's responsible person to monitor weather conditions (such as Hong Kong Observatory – Lightning Location Information) Suspension and resumption of outdoor activities shall be planned in advance. Safe execution procedures shall be set up and let all employees familiar with safe precautions include but not limited to: (1) All construction materials must be properly protected against damage. (2) Booms and jibs of cranes and heavy mechanical equipment should be lowered to the ground and adequately secured. (3) Non-essential electricity supplies must be isolated. | ENG SO ASO | N/A | N/A | L | 1X2 L |



Appendix C –

Relevant Certificate for Chainsaw Operator and Transplant Supervisor



LI Tin Sum

Staff Curriculum Vitae

| Professional History 10/2016 – Present | | Foreman | | |
|--|---|--|------|--|
| 01/2015 – 10/2016 | | Muni Arborist Limited Tree Climber Dragon Tree and Landscape Contractor Ltd | | |
| Academic Training | | | | |
| Prof. Cert | Professional Certificate in Arboriculture and Tree Work Supervision | | 2018 | IVE |
| Diploma | Arboriculture | | 2017 | The Chinese University of Hong Kong |
| Professional Qualification | | | | |
| Certified Tree Worker | | | 2018 | International Society of Arboriculture (ISA) |
| Qualified Chainsaw and Pruning (Ground) | | (Ground) | 2017 | International Society of Arboriculture Hong |
| Technician | | | | Kong Chapter (ISAHK) |
| Supervision of Tree Works | | | 2016 | Construction Industry Council |
| Occupational Safety and Health in Arboriculture | | ſ | 2015 | Occupational Safety and Health Council |



This is to certify that

LI Tin Sum

having completed a programme of study and passed the requisite assessments and satisfied all other requirements is hereby awarded

Professional Certificate in Arboriculture and Tree Work Supervision (Pass)

by the Vocational Training Council, Hong Kong Given this Second day of November, Two Thousand and Eighteen

茲證明

李天琛

修畢課程成績及格 職業訓練局依章授予

樹藝學及樹木工作監督專業證書 (合格)

二零一八年十一月二日

Dr. WONG Sin Ying, Lillian, Principal Hong Kong Institute of Vocational Education (Sha Tin) 香港專業教育學院(沙田)院長 黃倩瑛博士

Mrs. Carrie Yau, Executive Director Vocational Training Council 職業訓練局執行幹事尤曾家麗女士





香港中文大學專業進修學院 School of Continuing and Professional Studies The Chinese University of Hong Kong

> 茲證明 This is to certify that

> > 李天琛 LI, Tin Sum

考試及格照章授予 樹藝文憑

having passed the requisite examinations has this day been awarded the

Diploma in Arboriculture

二零一七年七月四日 4 July 2017

TUNN BELLE

w.y.P.

Chairman

大學擴展教育課程局主席

University Extension Board

專業進修學院院長 Director School of Continu

School of Continuing and Professional Studies

aleran



職業安全健康局

OCCUPATIONAL SAFETY & HEALTH COUNCIL

茲證明

李天琛

於二零一五年八月八日至二零一五年八月十五日 完成一項由本局主辦之

樹藝工作安全健康

並授予乙張

培訓證書

This is to certify that

LI TIN SUM

has completed a training course on 8 August 2015 to 15 August 2015 conducted by this Council on

Occupational Safety and Health in Arboriculture

and has been awarded a

Training Certificate





Bonnie YAU 游雯 Executive Director 總幹事 15 August 2015



CONSTRUCTION INDUSTRY COUNCIL 建造業議會

This is to certify that

LI, Tin Sum

has successfully completed

an 18-hour SUPERVISION OF TREE WORKS COURSE

on 27 April 2016

茲證明

李天琛

於二零一六年四月二十七日修畢

十八小時 樹木工程監管課程



International Society of Arboriculture (ISA) - Hong Kong Chapter 國際樹木學會香港分部

April 6, 2018

Dear Li Tin Sum 李天琛, Flat H, 16/F, Blk 1, Melody Garden, Tuen Mun



The certification valid period is extended to 5 years

We are pleased to inform you that the expiration date of your Certificate of Qualified Chainsaw and Pruning (Ground) Technician Assessment [QCPT] has been automatically extended from 30 Jul, 2020 to 30 Jul, 2022. The valid period of this certification has been changed from 3 years to 5 years which has been effective from 2018.

The updated certificate is attached. Thank you for your support to ISA Hong Kong Chapter.

證書有效期由三年改為五年

本學會分部現誠意通知您關於您的電油鋸及修剪(地上)技師證書之有效期 將自動由二〇二〇年七月三十日延長至二〇二二年七月三十日。由二〇一八年 起,所有該證書之有效期均由原本之三年改為五年。

現附上已更新之證書。感謝您對國際樹木學會香港分部的支持。

ISA Hong Kong chapter 國際樹木學會香港分部

二〇一八年四月六日

INTERNATIONAL SOCIETY OF RBORICULTURE HONG KONG CHAPTER

05

Sir

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17

THIS CERTIFIES THAT

QCPT

ISA

LI TIN SUM

Board of ISA - Hong Kong Chapter, and is therefore recognized as has successfully completed the requirements established by the

QUALIFIED CHAINSAW AND PRUNING (GROUND) TECHNICIAN (QCPT)

102

705

Certification Committee Chair, ISA Hong Kong Chapter

QCPT-0027 Certificate No.

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S.P

902

30 Jul, 2022 **Expiration Date**

30 Jul, 2017

Certified Date

INTERNATIONAL SOCIETY OF ARBORICULTURE CERTIFIED TREE WORKER CLIMBER SPECIALIST[™]

Tin Sum Li

Having successfully completed the requirements set by the International Society of Arboriculture, the above named is hereby recognized as an ISA Certified Tree Worker Climber Specialist®

22 Apr 2018

Certified Since



Kevin Martlage Director of Credentialing International Society of Arboriculture

Caitlyn Pollihan **Executive Director** International Society of Arboriculture

HK-1624T Certification Number 30 Jun 2021

Expiration Date



Man Chun Ning

Staff Curriculum Vitae

Professional History

9/2020 - Present

Project Coordinator Muni Arborist Limited

Academic Training

| Prof. Dip. | Professional Diploma in |
|------------|----------------------------|
| | Horticulture and Landscape |
| | Management |

2021

Technological and Higher Education Institute of Hong Kong (THEI)



Member of VTC Group VTC 機構成員

Technological and Higher Education Institute of Hong Kong TRANSCRIPT OF STUDY

| Name : | MAN Chun Ning | | Student No. : | 174115460 |
|--------------|---------------|--|-----------------|------------|
| Study Mode : | Part-time | | I.D. Card No. : | Y100518(7) |
| | | | | |

Programme : Professional Diploma in Horticulture and Landscape Management Programme Code : DS524101

| М | odule | Completion Date | Contact Hours | Credit Point | Grade |
|-------------|--|------------------|------------------|-----------------|-------|
| Academic Ye | ears 2018/2019 and 2019/2020 | | | | |
| DHL41001 | Plant Knowledge | 12 November 2018 | 42 | 3 | D |
| DHL41002 | Plant Culture | 12 December 2019 | 42 | 3 | C+ |
| DHL41003 | Plant Protection and Tree Biomechanics | 14 July 2020 | 42 | 3 | В- |
| DHL41004 | Plant Biology | 9 November 2019 | 28 | 2 | D+ |
| DHL42001 | Communication Skill | 3 October 2018 | 28 | 2 | C+ |
| DHL42002 | Landscape Construction | 15 April 2019 | 28 | 2 | В- |
| DHL42003 | Tree Risk Assessment and Mitigation | 29 July 2019 | 42 | 3 | C- |
| DHL42004 | Arboriculture and Landscape Management | 9 September 2019 | 28 | 2 | С |

Cumulative Credit Points Attained : 20 Cumulative Credit Points Exempted : 0

Award : Pass in Professional Diploma in Horticulture and Landscape Management [Award Date: 9 February 2021]



acen

Registrar

Date: 1 March 2021

Please read the notes on the last page.

Page 1 of 2



Member of VTC Group VTC 機構成員

Notes

SA

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W

Except for Modules which are assessed on a Pass/Fail (P/F) basis, student's performance in a module is expressed in Grades with A being the highest grade, D the minimum passing grade and F for fail.

| Grade | Description of Standard# |
|-------|---|
| А | Excellent |
| A- | Excellent |
| B+ | Very Good |
| В | very Obou |
| В- | Good |
| C+ | Satisfactory |
| С | Satisfactory |
| C- | |
| D+ | Pass |
| D | initial and a second |
| F | Fail |

Not applicable to modules assessed on a P/F basis

- Supplementary Assessment
 Incomplete
 Exempted from study with or without credit transfer
 Withdrawal
- WF : Withdrawal with Failure
- @ : Module assessed on a P (Pass) / F (Fail) basis

PDHLM AY2017/18 Class B – ETSS Reimbursement

Faculty of Design and Environment, THEi <thei-fde@vtc.edu.hk>

週四 2020/7/30 下午 02:12 **副本:** LO YUK MING <rymlo@vtc.edu.hk>; Yelo Wong <yelow@vtc.edu.hk> Dear Students,

Kindly note that the ETSS reimbursed / to reimburse the following modules for your information <u>if you found successfully completed the module</u>:-

April 2019

| Module Code | Module Name | Credit Points |
|-------------|---------------------|---------------|
| DHL42001 | Communication Skill | 2 |

October 2019

| Module Code | Module Name | Credit Points |
|-------------|---------------|---------------|
| DHL41004 | Plant Biology | 2 |

August 2020

| Module Code | Module Name | Credit Points |
|-------------|--|---------------|
| DHL41001 | Plant Knowledge | 3 |
| DHL41002 | Plant Culture | 3 |
| DHL41003 | Plant Protection and Tree Biomechanics | 3 |
| DHL42002 | Landscape Construction | 2 |
| DHL42003 | Tree Risk Assessment and Mitigation | 3 |
| DHL42004 | Arboriculture and Landscape Management | 2 |

60% of tuition fee of the aforementioned modules will be reimbursed (Credit Points x \$2,250 per credit point x 60%) to your bank account registered to ETSS. Depends on your bank registered to ETSS, some more time may be needed for handling transaction. Should you have enquiries on the ETSS scheme, please contact ETSS Enquiry Hotline at 2435 9423 or by email at <u>vplus@vtc.edu.hk</u>.

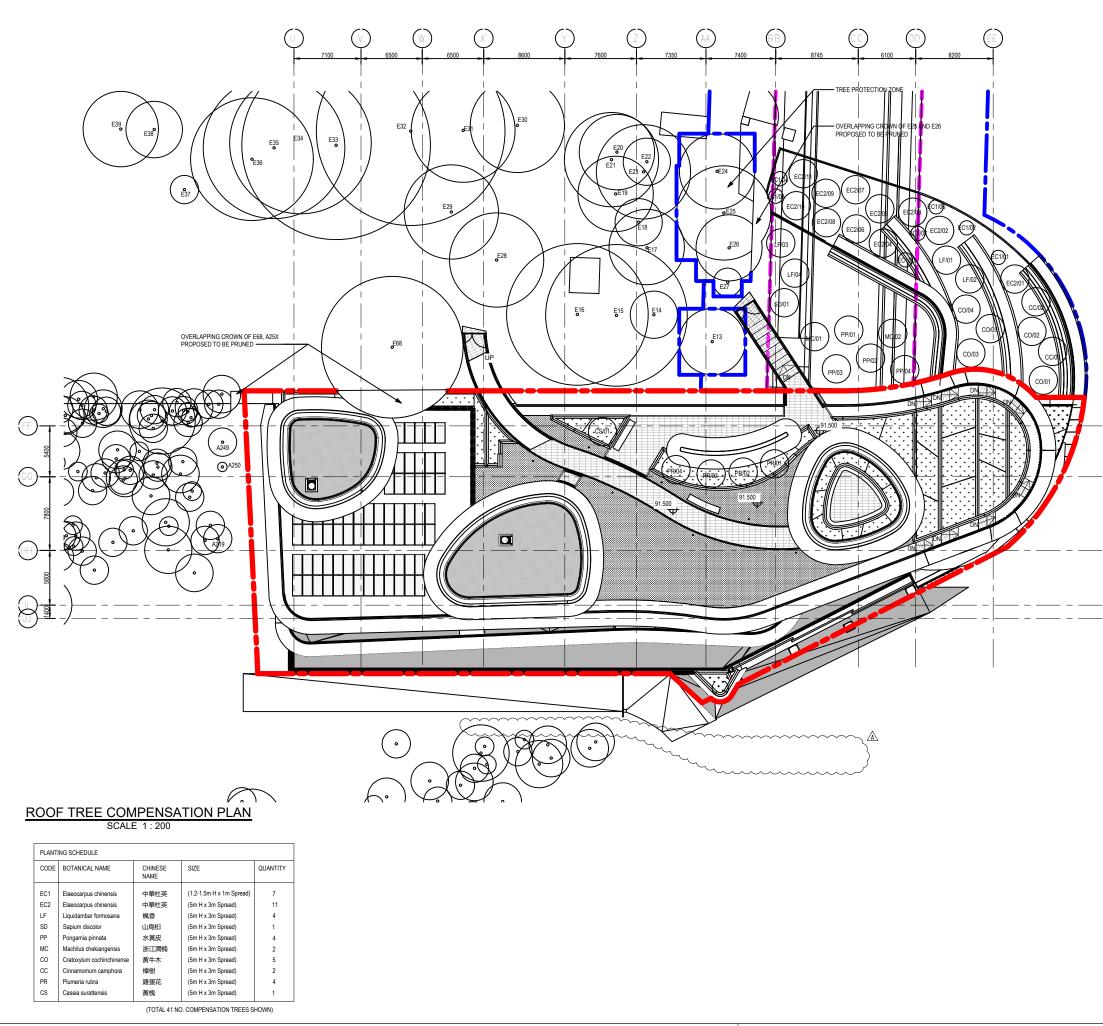
Best regards Faculty of Design and Environment Technological and Higher Education Institute of Hong Kong (THEi)

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All information and opinions given therein are entirely those of the message sender(s) and are not necessarily endorsed by the Vocational Training Council.

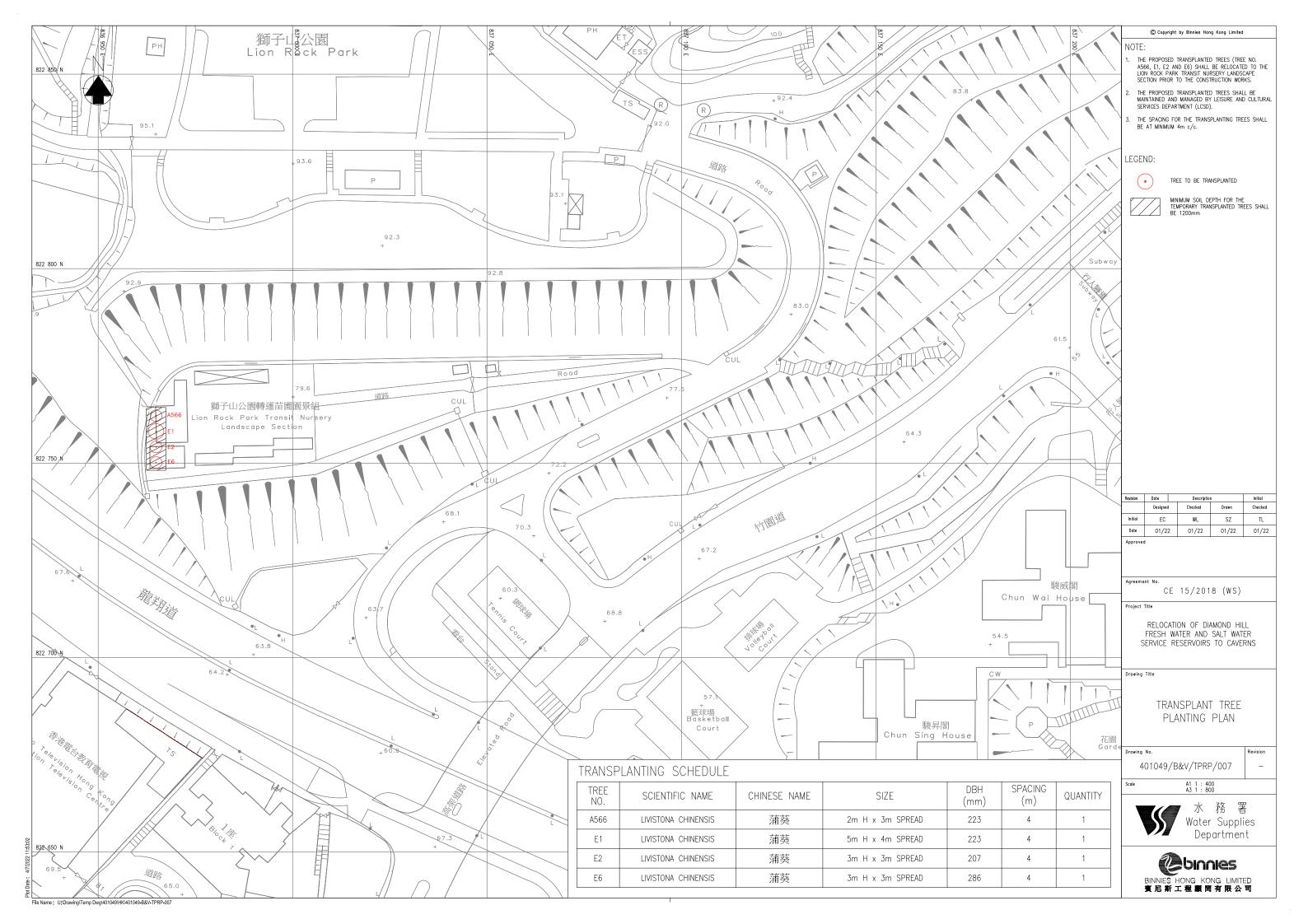
Appendix B – Compensatory Planting Plans and Transplant Tree Planting Plan



В

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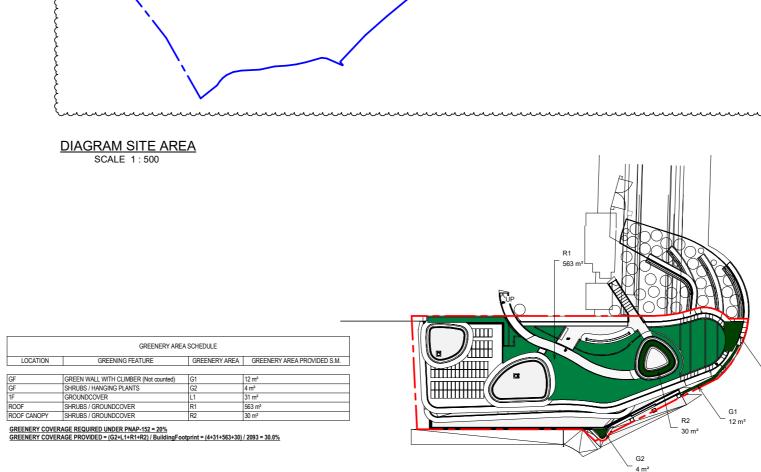


Contract No. 21/WSD/21 Relocation of Diamond Hill Fresh Water and Salt Water Reservoirs to Caverns

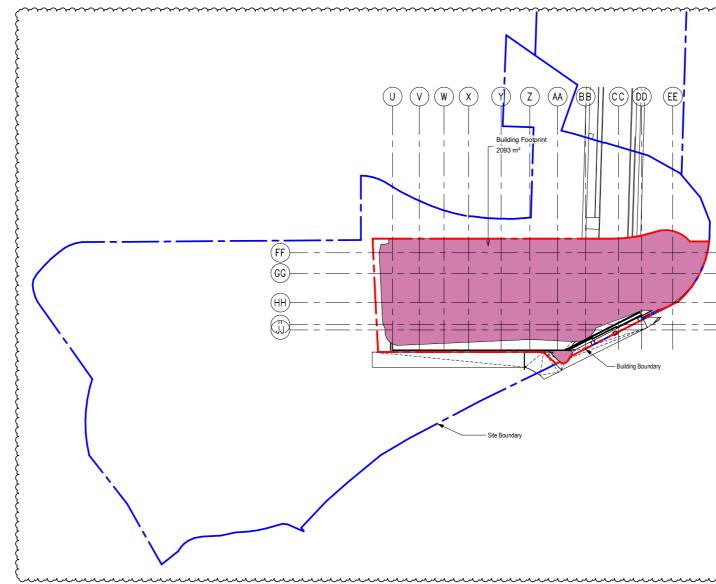
Appendix C – Preliminary Design Drawings

| File Name: C:\Users\yyano\SKY YUTAKA | LTD\319 WSD Building at Diamond Hil | - Documents\02 CAD\01 | AR\10_3D\BV-401049-PAB-AR-W.rvt |
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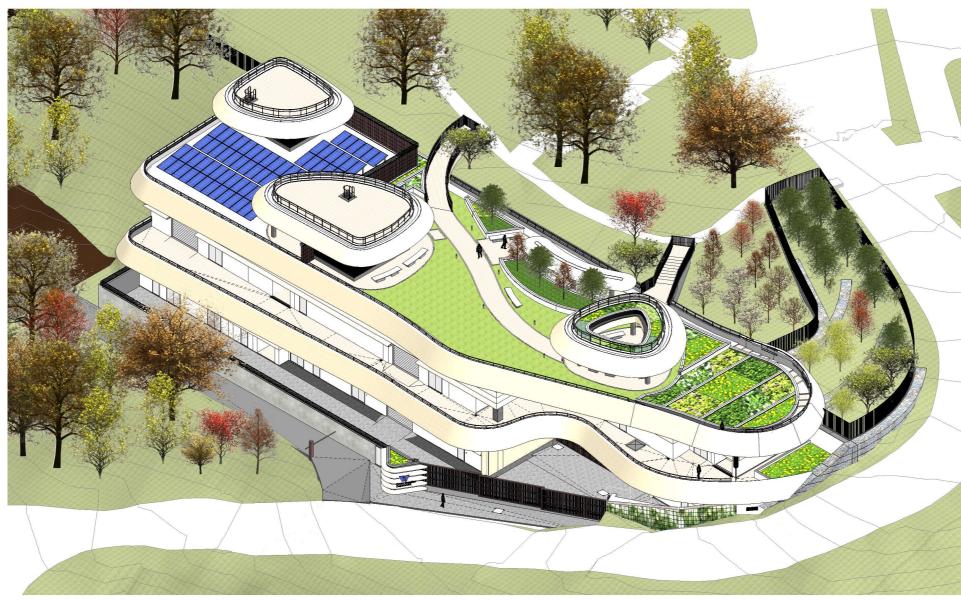
DIAGRAM GREENERY CALCULATION SCALE 1:500



| | | ROOM SCHEDULE | | | |
|--------|-------------------------------|---|---|--------|----------|
| Number | Name | Area | Perimeter | | Level |
| RG01 | BUILDING FS PUMP ROOM | 22.06 m ² | 19.67 m | GROU | ND FLOOR |
| RG02 | 36m ³ FS TANK | 10.10 m ² | 11.95 m | GROU | ND FLOOR |
| RG03 | 36m3 FS TANK | 9.34 m ² | 11.46 m | GROU | ND FLOOR |
| RG04 | TUNNEL FS PUMP ROOM | ~ 80.1172~~~ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ∽ GROU | ND FLOOR |
| RG05 | FS CONTROL ROOM | 21.13 m ² | 19.04 m | GROU | ND FLOOR |
| RG06 | SUPPLY AIR CONCRETE DUCT F/A | my244men | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | GROU | ND FLOOR |
| RG07 | SUPPLY AIR CONCRETE DUCT | 110.22 m ² | 51.31 m | GROU | ND FLOOR |
| RG08 | - | 10.19 m ² | 16.98 m | GROU | ND FLOOR |
| RG09 | TUNNEL VENTILATION FAN ROOM 1 | 270.24 m ² | 66.37 m | GROU | ND FLOOR |
| RG10 | SUPPLY AIR CONCRETE DUCT | 197.55 m ² | 95.19 m | GROU | ND FLOOR |
| RG11 | WATER METER ROOM | 7.54 m ² | 13.30 m | GROU | ND FLOOR |
| RG12 | CAPACITOR ROOM | 10.22 m ² | 12.96 m | GROU | ND FLOOR |
| RG13 | BATTERY ROOM | 10.56 m ² | 13.08 m | GROU | ND FLOOR |
| RG14 | - | 26.79 m ² | 25.76 m | GROU | ND FLOOR |
| RG15 | - | 10.11 m ² | 12.74 m | GROU | ND FLOOR |
| RG16 | LV SWITCH ROOM | ~133.957#~~ | | ∽ GROU | ND FLOOR |
| RG17 | CLP TX ROOM 1 | 59.03 m ² | 32.48 m | GROU | ND FLOOR |
| RG18 | CLP TX ROOM 2 | ~59:05mm | maggggg | GROU | ND FLOOR |
| R101 | PLENUM , | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~1460m~~ | | T FLOOR |
| R102 | - } | 10.15 m ² | 12.96 m | FIRS | T FLOOR |
| R103 | PRESSURIZATION FAN ROOM | Light war | ~ 24.49 m \sim | C FIRS | T FLOOR |
| R104 | SUPPLY AIR CONCRETE DUCT T/B | 14.25 m ² | 16.25 m | FIRS | T FLOOR |
| R105 | - | 8.06 m ² | 11.81 m | FIRS | T FLOOR |
| R106 | SUPPLY AIR CONCRETE DUCT | 13.21 m ² | 15.69 m | FIRS | T FLOOR |
| R107 | PRESSURIZATION FAN MCC ROOM | 16.29 m ² | 17.21 m | FIRS | T FLOOR |
| R108 | PUMPING ROOM | 45.01 m ² | 27.58 m | FIRS | T FLOOR |
| R109 | SUPPLY AIR CONCRETE DUCT F/B | 14.55 m ² | 16.15 m | FIRS | T FLOOR |
| R110 | EXHAUST CONCRETE DUCT | 123.71 m ² | 75.68 m | FIRS | T FLOOR |
| R111 | TUNNEL VENTILATION FAN ROOM 2 | 257.34 m² | 65.49 m | FIRS | T FLOOR |
| R112 | EXHAUST AIR CONCRETE DUCT | 77.77 m ² | 42.15 m | | T FLOOR |
| R113 | CORRIDOR | 85.61 m ² | 73.77 m | FIRS | T FLOOR |
| R114 | STORE ROOM | 31.20 m ² | 22.57 m | FIRS | T FLOOR |
| R115 | TOILET | 10.87 m ² | 13.77 m | FIRS | T FLOOR |
| R116 | \sim | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | FIRS | T FLOOR |
| R117 | FAN ROOM | 46.69 m ² | 32.09 m | FIRS | T FLOOR |
| R118 | WSUPPLY ARPLEND | M39.80mm | 129:04m | | T FLOOR |
| R119 | PLC ROOM | 71.79 m ² | 35.91 m | | T FLOOR |
| B120~~ | GENSET ROOM | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~ ³³ 71-W~~~ | | THOOR |
| R121 | TBE ROOM | 13.42 m ² | 14.59 m | | T FLOOR |
| RROT | SOPPLY AIR PLENUM | 44.83 m | 27.35 m | | opuni |
| RR02 | EXHAUST AIR CONCRETE DUCT | 45.40 m ² 438.37 m ² | 27.60 m 92.10 m | F | ROOF |



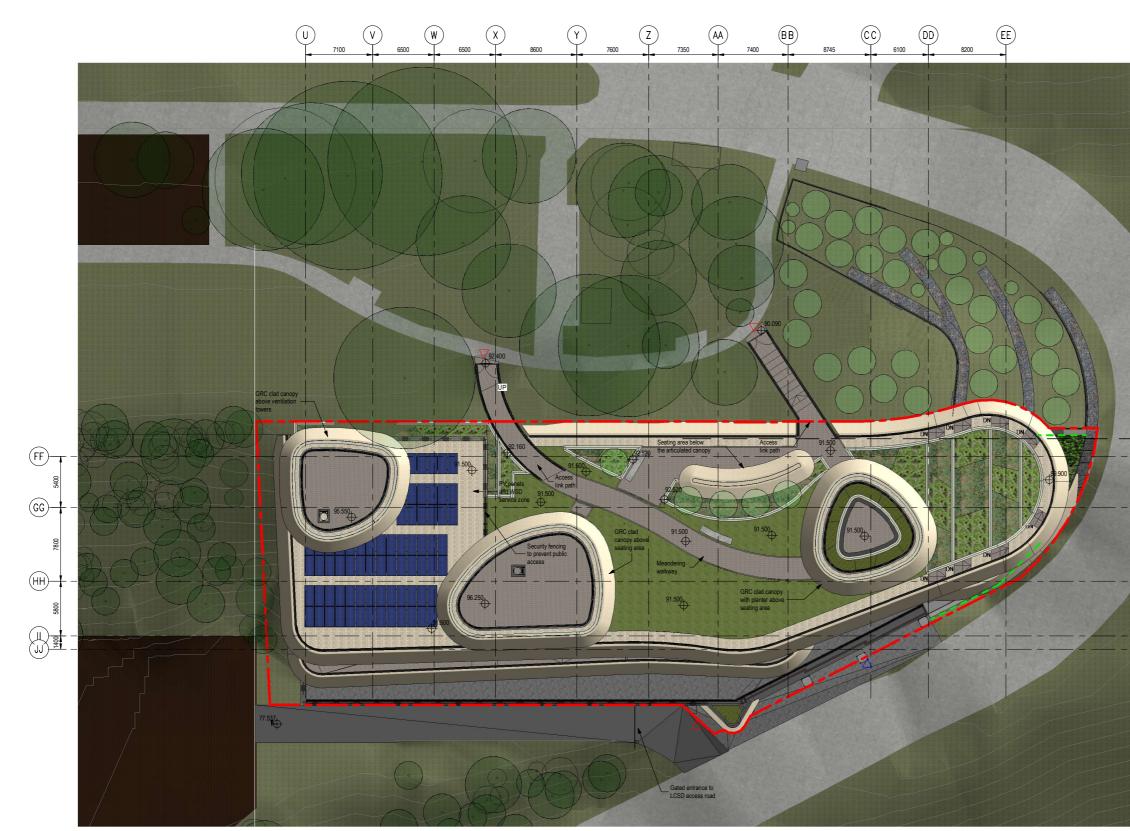
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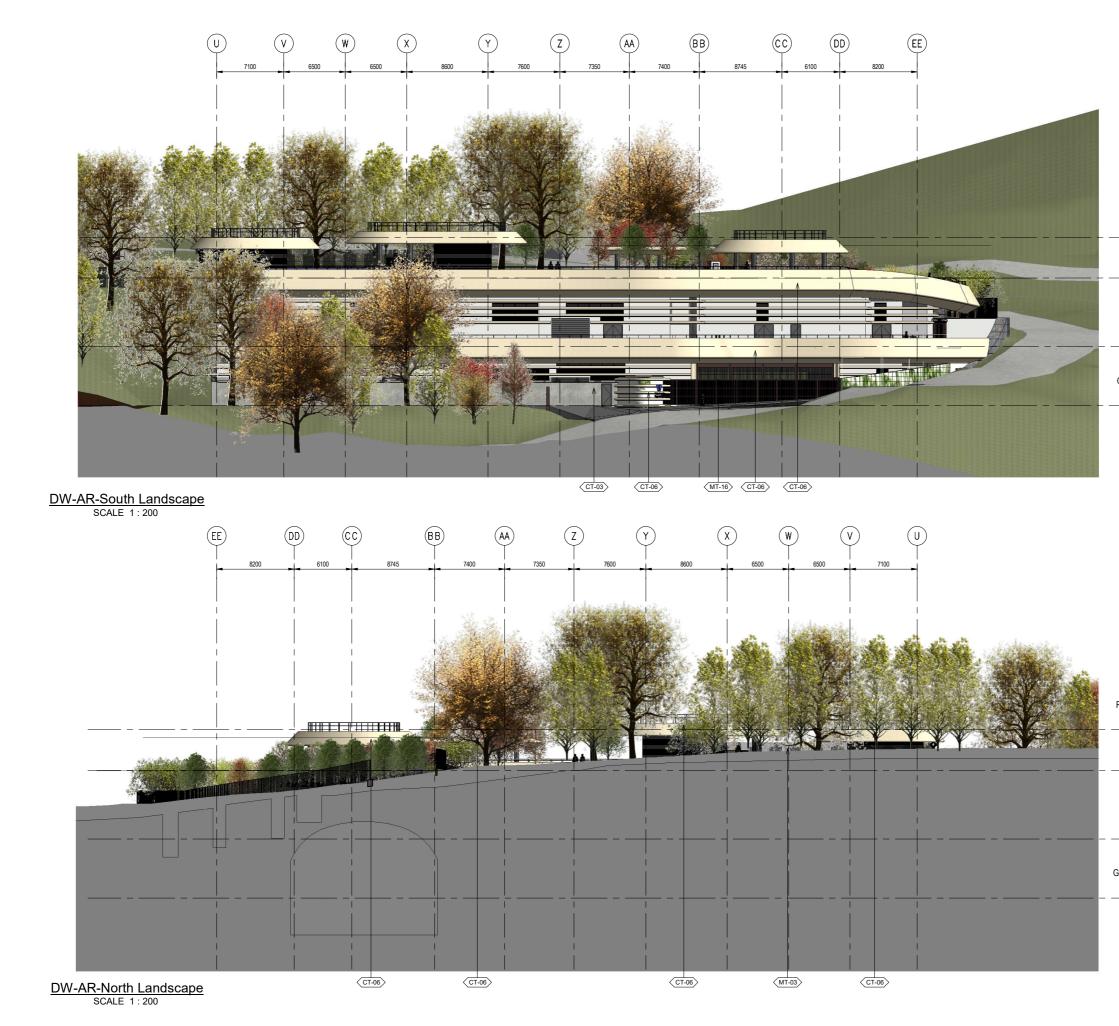
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NOTES :



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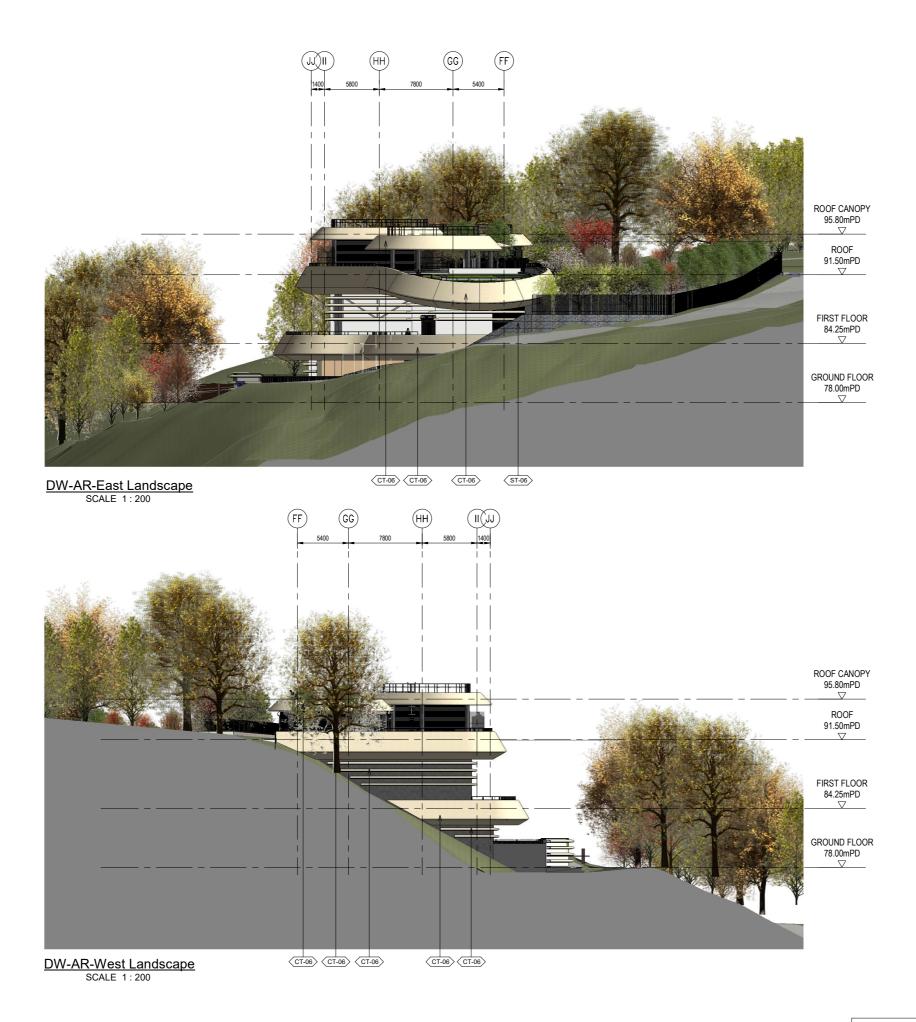
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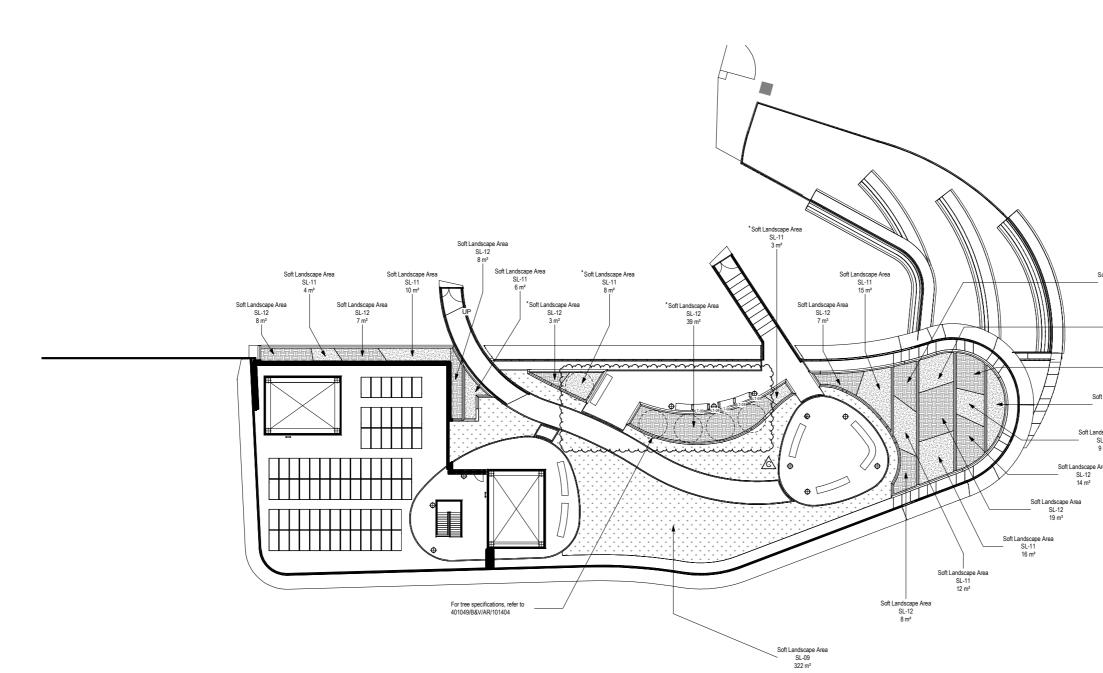
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水務署 Water Supplies Department



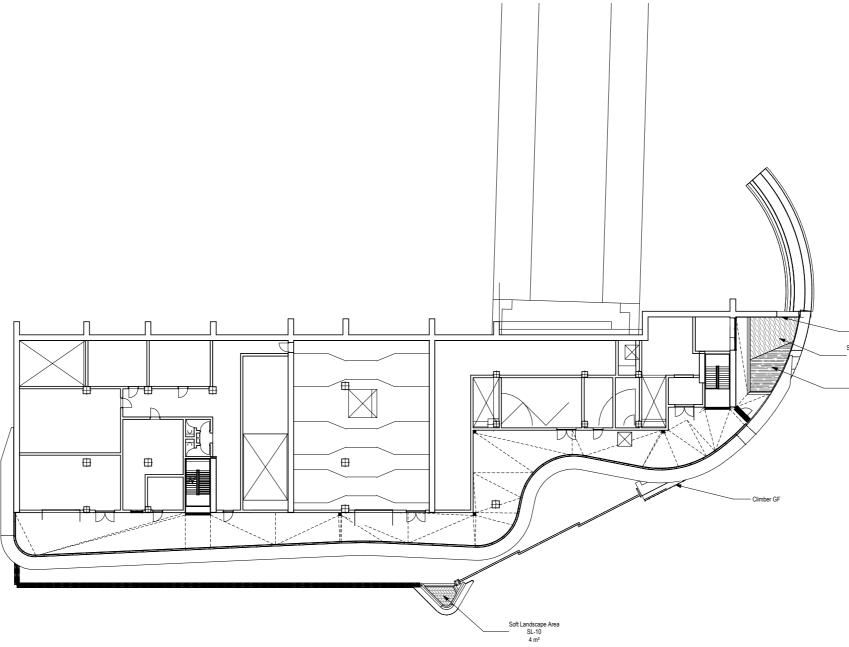
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| | RI FR SER | ELOCATI ESH WA VICE RES | TER AND | IAMOND SALT W S TO CA | ATER | | | | |
| | | HITECTU | RAL COL (Sheet 2 | | | | | | |
| | Drawing N | | &V/AR/10 | 2101 | Revision A | | | | |
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| SOFT LANDSCAPE SCHEDULE ROOF |
|------------------------------|
| SCALE 1:200 |

| | | | GROUNDCO | /ER | | |
|-------|-----------------------|--------------|-----------|--------------|----------------------|----------|
| MARK | SCIENTIFIC NAME | CHINESE NAME | SIZE (mm) | SPACING (mm) | AREA | QUANTITY |
| SL-09 | Stipa grandis | 蔓花生 | 100 x 100 | 100 | 322 m² | 36620 |
| | | | SHRUB | | | |
| MARK | SCIENTIFIC NAME | CHINESE NAME | SIZE (mm) | SPACING (mm) | AREA | QUANTITY |
| SL-11 | Tarenaya hassleriana | 醉蝶花 | 500 x 450 | 500 | 108 m ² | 540 |
| | Asclepias curassavica | 馬利筋 | 500 x 450 | 500 | 133.5 m ² | 670 |

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| | | | BREVIAT | STRUCTURAL ROC | | |
| | | s | 5.F.L. 5.B.L. | STRUCTURAL FLO | OR LEVEL | |
| | | R | .G.L. | RAISED GROUND L | EVEL | |
| | | | | FRESH WATER | LEVEL | |
| | | | N, dn | NOMINAL DIAMETE DUCTILE IRON | R | |
| | | | | CAST IRON | | |
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| | Soft Landscape Area SL-12 | S | SYSTEM TO CONTRACTO | AUTOMATIC IRRIGA BE DESIGNED AND DR FOR PROJECT M to only for irrigation pla | PROPOSED BY ANAGER'S APP | THE |
| | 10 m² | | | roniy lor ingation pla | 19 | |
| | Soft Landscape Area | | | | | |
| | SL-11 12 m ² | | | | | |
| Щ | | | | | | |
| 71- | Soft Landscape Area SL-12 | | | | | |
| \square | 11 m² | | | | | |
| 4_ | Soft Landscape Area SL-11 | | | | | |
| / | 12 m ² | | | | | |
| | Soft Landscape Area | | | | | |
| | | | | | | |
| Sof | t Landscape Area | | | | | |
| | SL-12 14 m² | C B | 04/22 03/22 | TENDER ADDE TENDER ADDE | | SKYY SKYY |
| Landscape | a Area | A | 01/22 | 1ST ISSUE O | | SKYY |
| SL-12 19 m ² | | Initial | Designe | ed Checked | Drawn SKYY | Checked TL |
| | | Date | 01/22 | 01/22 | 01/22 | 01/22 |
| Area | | Approved | d | I | 1 | |
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| | | Contract | No. | 21 / WSE |)/21 | |
| | | Contract | Title | | | |
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| | | FR | RESH V | VATER AND |) SALT W | /ATER |
| | | SER | VICE F | RESERVOIF | RS TO CA | VERNS |
| | | Drawing | Title | | | |
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| ~~~~ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | SOF | T LANI | DSCAPE SC | CHEDULE | E, ROOF |
| | ······································ | | | | | |
| REA | QUANTITY (No.) SOIL DEPTH REQUIRED (mm) | | | | | |
| 22 m² | 36620 300 | Drawing | No. | | | Revision |
| 05. | | - | | 00\//\00 | 6004 | |
| AREA 08 m² | QUANTITY (No.) SOIL DEPTH REQUIRED (mm) 540 600 | 4 | 01049 | /B&V/AR/10 | 0001 | C |
| 3.5 m² | 670 600 | Scale | | A1 As indica | ted | |
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| SOFT LANDSCAPE SCHEDULE GF+1F | |
|-------------------------------|--|
| SCALE 1:200 | |

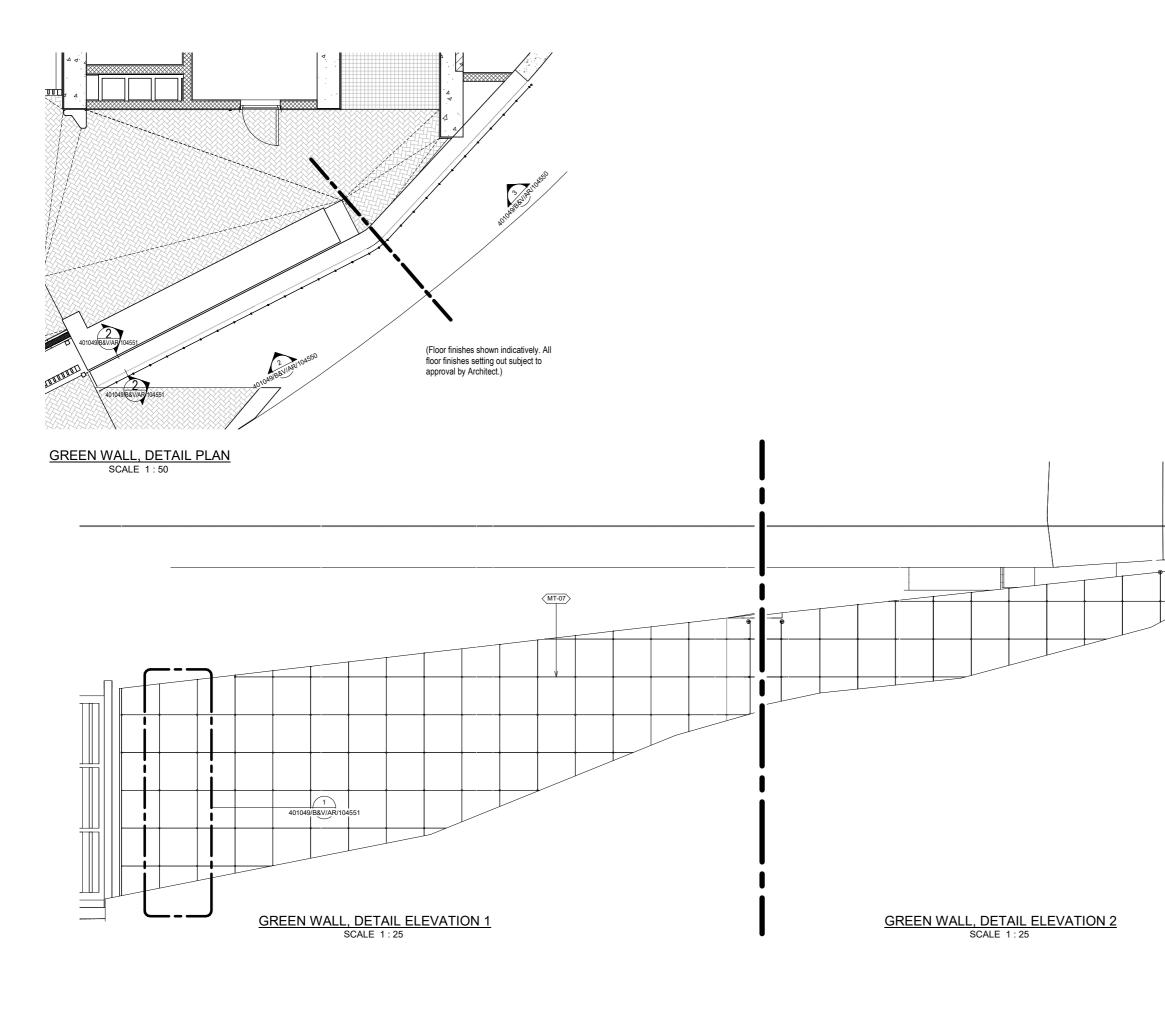
| | | | SHRUBS | | | |
|------------|----------------------------------|--------------|-------------|--------------|---------------------|-------------|
| MARK | SCIENTIFIC NAME | CHINESE NAME | SIZE (mm) | SPACING (mm) | AREA | QUANTITY (N |
| SL-10 | Bougainvillea spectabilis | 簕杜鵑 | 800 x 800 | 800 | 4.2 m ² | 10 |
| SL-13 | Fatsia japonica | 八角金盤 | 900 x 600 | 500 | 14.2 m ² | 30 |
| SL-14 | Ficus macrocarpa var.crassifolia | 火山榕 | 1200 x 1000 | 1000 | 17 m ² | 20 |
| | | | CLIMBER | | | |
| LOCATION | SCIENTIFIC NAME | CHINESE NAME | SIZE (mm) | SPACING (mm) | AREA | QUANTITY (N |
| GF CLIMBER | Lonicera japonica | 忍冬 (金銀花) | 1000 x 450 | 450 | 52 m² | 120 |
| 1F CLIMBER | Epiprenum aureum | 綠蘿 | 600 x 350 | 400 | 13 m ² | 60 |

| | S. SJ R. F. | W. I, dn I. | STRUCTU STRUCTU RAISED G FINISHED FRESH W | ROUND LE GROUND /ATER DIAMETEF IRON | or Level Ement Level Evel Level | |
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| SL-14 17 m² Soft Landscape Area - SL-13 14 m² | | | | | | |
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| 600 | Drawing N | lo. | | | | Revision |
| 600 | 40 | 01049 | /B&V// | AR/106 | 6000 | С |
| Y (No.) SOIL DEPTH REQUIRED (mm) | Scale | | A | 1 As indicate | ed | |
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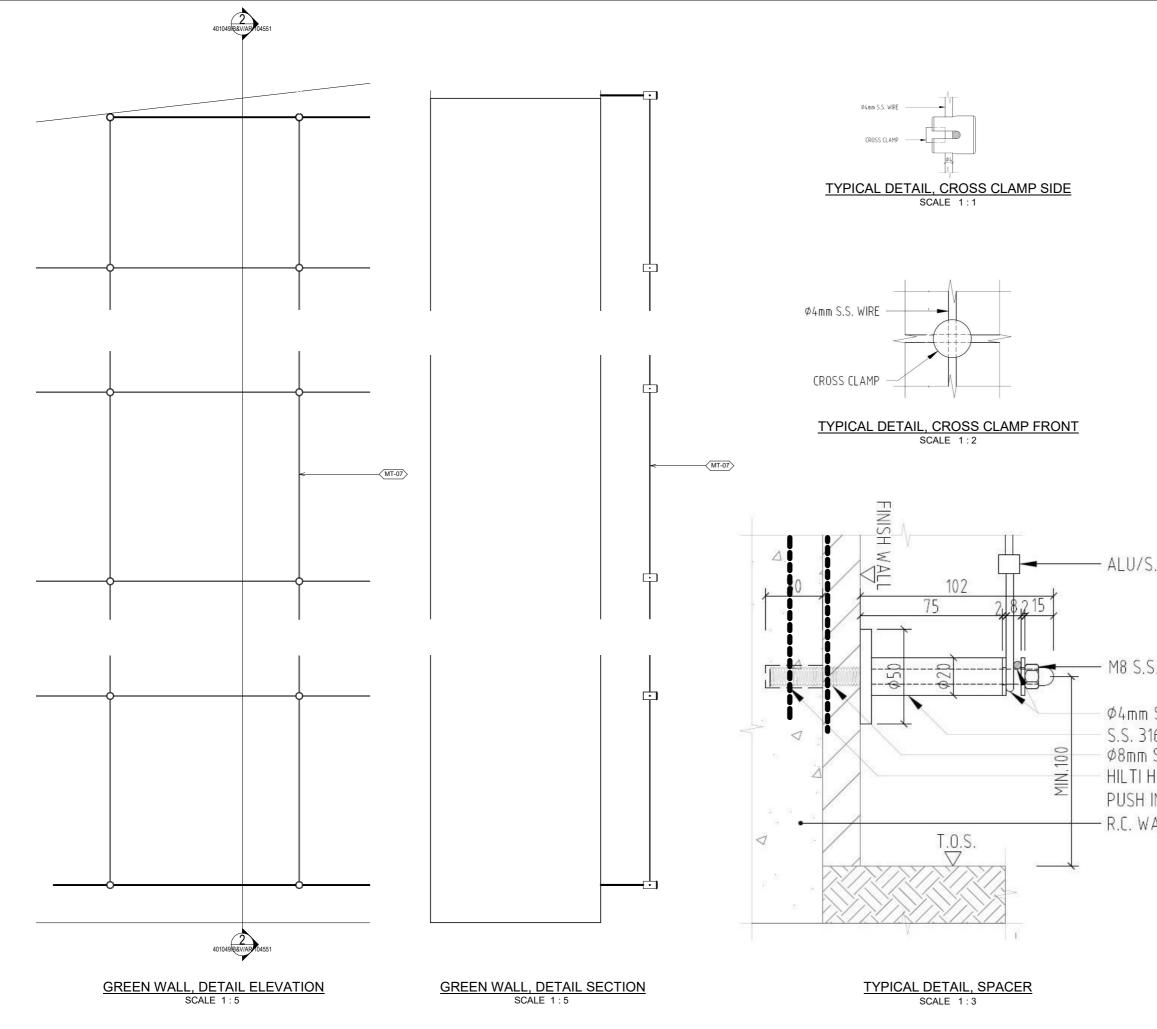
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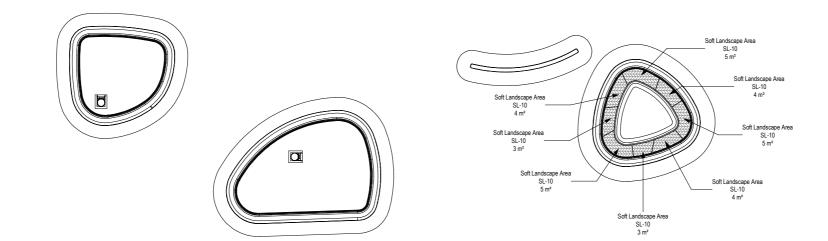
ABBREVIATIONS :



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| | issued on the condition it is not reproduced, retained or disclosed to any unauthorised person, either wholly or in part without the written consent of SKY YUTAKA. |
| | ABBREVIATIONS : |
| | S.R.L. STRUCTURAL ROOF LEVEL S.F.L. STRUCTURAL FLOOR LEVEL S.B.L. STRUCTURAL BASEMENT LEVEL |
| | R.G.L. RAISED GROUND LEVEL F.G.L. FINISHED GROUND LEVEL |
| | F.W. FRESH WATER DN, dn NOMINAL DIAMETER |
| | D.I. DUCTILE IRON C.I. CAST IRON |
| | PA PLANTER AREA |
| | NOTES : |
| | 1. FOR GENERAL NOTES AND LEGENDS, PLEASE REFER TO DRAWING NO. 401049/B&V/AR/000001 |
| | 2. THIS DRAWING TO BE READ IN CONJUNCTION WITH |
| | DRAWING SERIES NO. 401049/B&V/AR/101500-101600s'. |
| A | MATERIAL LEGEND : |
| | CT47) PRE-CAST CONCRETE MODULE (PT47) NATTE PRIME MULLION PANT (EXTERNAL) CT472) COMMA STONE (PT47) SKON PANT PRIME CT474) COMMENT BALL (BLARD MARKED) (PT47) PANT TINNEH IN CONCRETE BRUCLIRE CT474) COMMENT BALL (BLARD MARKED) (PT47) PANT TINNEH IN CONCRETE BRUCLIRE CT474) COMMENT BALL (BLARD MARKED) (PT47) PANT TINNEH IN CONCRETE BRUCLIRE |
| | CTUAR OLASSIFIER RENORCED CONCRETE STAT ARTHOLI, GRANTE PLOCATLE (AGT) TYPE-1 CWT-87 STEEL INVORUM URLI MONATO STEEL INVORUM URLI MONATO CWT-82 STEEL INVORUM URLI MONATO STEEL INVORUM URLI MONATO STEEL INVORUM UR |
| | (UT-40) SB DOOR SYSTEM (ST-66) PERMEMIC PARER (UT-66) SECURITY ROLLER SHUTTER (ST-66) GABION INUL SYSTEM (UT-66) VERTALTION LONGES (ST-67) FEBEL FLOORING |
| | (#T#) VETCAL CREM CALL ON STITUL (\$T#) NEXTORED AND THE TAL (ADT) (#T#) VETCAL CREM CALL ON STITUL (\$T#) SALE TAL (ADT) CALL ON CALL TAL (\$T#) (#T#) VETCAL CREM CALL ON STITUL (\$T#) SALE TAL (\$T\$) (#T#) VETCAL CREM CALL ON STITUL (\$T#) SALE TAL (\$T\$) (#T#) VETCAL CREM CALL ON STITUL (\$T#) SALE TAL (\$T\$) (#T#) SALE TAL (\$T\$) SALE TAL (\$T\$) (#T#) SALE CREM CALL ON STITUL (\$T#) SALE TAL (\$T\$) (#T#) SALE CREM CALL ON STITUL (\$T#) SALE TAL (\$T\$) (#T#) SALE CREM CALL ON STITUL (\$T#) SALE TAL (\$T#) |
| | VIET-39 STELE CLACORE AND GAPPING DETAL VIET-39 MANHADIC DOVER VIET-39 TELESCORE SUDIO GATE VIET-30 TELESCORE SUDIO GATE VIET-30 TELESCORE SUDIO GATE |
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| | Initial SKYY YY SKYY TL Date 03/22 03/22 03/22 03/22 |
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| | Contract No. 21 / WSD / 21 |
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| | RELOCATION OF DIAMOND HILL FRESH WATER AND SALT WATER |
| | SERVICE RESERVOIRS TO CAVERNS |
| | Drawing Title |
| | ARCHITECTURAL DETAIL, CLIMBER |
| | GREEN WALL (Sheet 1 of 2) |
| | |
| | Drawing No. Revision 401049/B&V/AR/104550 B |
| <u>10N 2</u> | 401049/B&V/AR/104330 B Scale A1 As indicated |
| | Al As indicated 水務 署 |
| | 小 小 省 Water Supplies |
| | Department |
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| | BINNIES HONG KONG LIMITED |
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| S.S. WIRE 6 SPACER (L=75mm) S.S. SCREW ROD IKD-SR M8×30 | FR | ELOCATI ESH WA VICE RE | on of d Ter and Servoif | SALT W | ATER |
| N ANCHOR ALL (BY OTHERS) | | | IRAL DE1 . (Sheet 2 | | MBER |
| | | | &V/AR/10 | | Revision B |
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| SHRUBS | | | | | | |
|--------|---------------------------|--------------|-----------|--------------|---------------------|----------|
| MARK | SCIENTIFIC NAME | CHINESE NAME | SIZE (mm) | SPACING (mm) | AREA | QUANTITY |
| L-10 | Bougainvillea spectabilis | 簕杜鵑 | 800 x 800 | 800 | 31.8 m ² | 60 |

SOFT LANDSCAPE SCHEDULE ROOF CANOPY SCALE 1:200

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| | NOT | <u>ES :</u> | | | | | |
| | 1. ALL LEVELS ARE IN REFERENCE TO METRES ABOVE THE HONG KONG PRINCIPAL DATUM (mPD) UNLESS OTHERWISE STATED. | | | | | | |
| | 2. FOR GENERAL NOTES AND LEGENDS, PLEASE REFER TO DRAWING NO. 401049/B&V/AR000001 3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED. 4. THE ARCHITECTURAL AND LANDSCAPE DESIGN OUTSIDE THE SITE BOUNDARY OF PAB IS VISUALISED FOR REFERENCE ONLY ON CONNECTIVITY OF THE SITE 5. THE FULL AUTOMATIC IRRIGATION POINTS AND SYSTEM TO BE DESIGNED AND PROPOSED BY THE CONTRACTOR FOR PROJECT MANAGER'S APPROVAL. (This is option only for irrigation plan) | | | | | | |
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| JIRED (mm) | SOFT LANDSCAPE SCHEDULE, ROOF CANOPY | | | | | | |
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Specification for Design, Supply and Installation of Green Roof System

Soft landscape contractor to propose system design with following general requirement for architect and client approval:

- Saves costs by using dramatically less water than conventional greening systems Reduces temperatures of concrete decks by over 30°C Decreases the thermal load of the local environment by transferring heat to vegetation Removes more CO2 from the atmosphere through photosynthesis Offers flexibility around loading constraints by tailoring soil depth, as required

The Lightweight proprietary green roof system shall comprise:
(1) Drainage composite for drainage and water retention;
(2) Water Storage unit to retain water;
(3) Root barrier to prevent roots from penetrating to the waterproofing membrane system;
(4) Protection layer to protect the waterproofing membrane;

Contractor to observe and comply with the following codes and relevant standards including: BS 8616:2019 (Specification for performance parameters and test methods for green roof substrates); BS6229:2018 Flat roofs with continuously supported flexible waterproof covering; relevant structural design criteria, as per BS EN 1990:2002 "Eurocode- Basis of Structural Design; Dead and imposed loads to be calculated in accordance with BS EN 1991-1-1, BS EN 1991-1-3 and BS EN 1991-1-4; Densities, self-weight, imposed loads for buildings (BS EN 1991-1-12002) and ASTM codes; CE-marked and BS EN 13252 and current Hong Kong dandards standards.

The Green Roof System shall consist of the following requirements:

Water storage units (drainage composite) A lightweight and high strength water retention and drainage tray manufactured from fully recycled and recyclable plastics using injection moulding process. The trays shall be locked and interlinked. The configuration of each reservoir tray to ensure that it fills evenly throughout and that any excess water overflowing from a single tray shall be cut on-site to match the rooftop design's requirements.

- Water storage volume: Standard type = 34L/m2
 Melt flow: 5-60g/10min
 Relative density: 0.89 0.95
 Modulus of elongation: 600 2.000MPa
 Tensile yield point stress: 10-45mPa
 Charpy impact strength (236g): 1-20k/lm2
 Compressive load test: greater than 450kN/m2

Regenerated Charcoal Charcoal layer to be installed above the water storage units and below the soil to absorb water vapour from the air gap and to feed water steadily to the roots above.

- · Unused wooden material (ie. driftwood, thinned forest wood, formwork) is used
- Onused wooden material (ie. dnitwood, trimmed forest wood, Surface area: above 370m2/g.
 Minimum spontaneous combustion temperature of 400deg.
 All charcoal to be sealed within individual bags

waterproofing laver/concrete screed.

- Material; high-density polyester
 Allow water to enter and exit the system but roots cannot penetrate through to the
 reach reservoir trays
 Strength shall not decrease when immersed in water or soil
- Strengtin snail noti decrease when immersed in water Thickness: 0.1mm Tensile strength: vertical 648 x horizontal 585N/5cm Degree of elongation: 29 x 29% Tear strength: 18 x 180 Coefficient of permeability: 4.8x 10-4 cm/sec

 Resin Net

 Resin net to be installed above the water storage units together with the root barrier layer.

 • Material: high density polyethylene

 • Met Rive: (1 - 1.0g/10min

 • Relative density: 0.94 - 0.96

- Estimated usable temperature: -060deg to 100degC Number of threads: 260 / 100cm
- Shielding ratio: 42%
 Yield point strength: greater than 2,740N/m
 Loop strength: greater than 196N/thread

Hechimaron

- haron Porous medium made from polypropylene resin. Thickness: 2mm Strain rate: 22% (representative value) under 300kPa (30tfm2) compressive load. Surface aperture rate: 80% 97%. Hechimaron has a large area for water-absorption due to its high rate of surface aperture with a wide space for water conduction (porosity rate: 80% 97%) inside its body thus ensuring that the water catchment and drainage conformance loads are high. Performance levels are high).
 The produce to be heat-sealed and no adhesive agents are used.

Root barrier Resin sheet

Mulc

a contraction of the second second

Water storage unit (recycled plastic)

Stored water

Regenerated ch

- Contract

Air gap

Stored water

Water storage unit

Water Storage Unit Types

Standard type (34L/m²)

| | | | я: e п п п | έ. | <u>а</u> п. п. п. |
|-------------------------------------|--|-----|---------------|--------|-------------------|
| Vegetation installation examples | | *** | - | | T |

Special soil mix

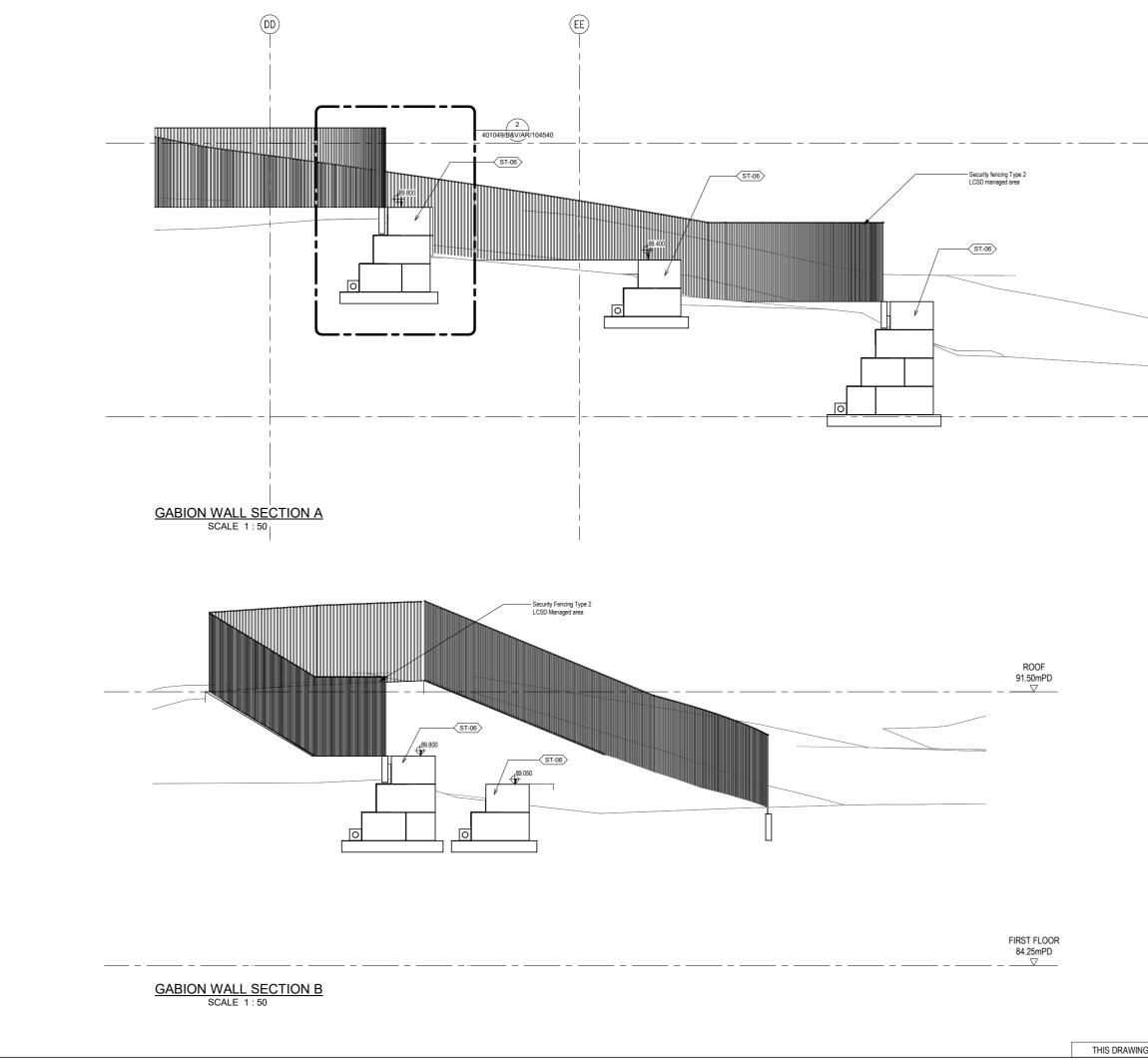
Levelling mate Mulch

Slim type (16L/m²)

- Inter The

Root Barrier (protection layer 1) The root barrier to be positioned directly above the high strength reservoir trays thus ensuring that the roots of the vegetation will not come into direct contact with and thus damage the

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| | | | (<u>NOTES:</u> | | | |
| | | 0 | LALL LEVELS ARE IN REFERENCE TO METRES ABOVE | | | |
| | | | OTHERWISE STATED. 2. FOR GENERAL NOTES AND LEGENDS, PLEASE REFER TO DRAWING NO. 401049/B&V/AR1000001 | | | |
| | | | 3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED. | | | |
| | | | 4. THE ARCHITECTURAL AND LANDSCAPE DESIGN OUTSIDE THE SITE BOUNDARY OF PAB IS VISUALISED | | | |
| | | | FOR REFERENCE ONLY ON CONNECTIVITY OF THE SITE 5. THE FULL AUTOMATIC IRRIGATION POINTS AND | | | |
| | | Ó | SYSTEM TO BE DESIGNED AND PROPOSED BY THE CONTRACTOR FOR PROJECT MANAGER'S APPROVAL. (This is option only for irrigation plan) | | | |
| | | | { | | | |
| Waterproofing Refer to specificati | on for PT-03. | | | | | |
| | tern is adopted, it should be placed directly above the charcoal layer (ie. | | | | | |
| fine weather thus e | This positioning will help ensure that the upper surface remains dry within nabling more effective rooftop accessibility) | | | | | |
| surface area of app every 100m2 for ob | It that imgation is required, one (1) hose should be able to manually cover a roximately 200m2 whilst one (1) water gauge would generally be required servation purposes. In case of installation, contractor to allow for rain sensor automatic water timer. | | | | | |
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| | | | B 03/22 TENDER ADDENDUM NO. 4 SKYY A 01/22 1ST ISSUE OF TENDER SKYY Designed Checked Drawn Checked | | | |
| | | | Initial SKYY YY SKYY TL | | | |
| | | - | Date 03/22 03/22 03/22 03/22 Approved | | | |
| | | | 12-2 | | | |
| | | - | Contract No. 21 / WSD / 21 | | | |
| | | - | Contract Title | | | |
| | | | RELOCATION OF DIAMOND HILL | | | |
| | | | FRESH WATER AND SALT WATER SERVICE RESERVOIRS TO CAVERNS | | | |
| | | - | | | | |
| | | | -roning Here | | | |
| | | | GREEN ROOF SYSTEM | | | |
| | | | SPECIFICATION | | | |
| | | ╞ | Drawing No. Revision | | | |
| | | | 401049/B&V/AR/106100 B | | | |
| | | ļ | Scale A1 1:100 | | | |
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| | | | Water Supplies Department | | | |
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Contract No. 21/WSD/21 Relocation of Diamond Hill Fresh Water and Salt Water Reservoirs to Caverns

Appendix D – Landscape and Visual Mitigation Plan

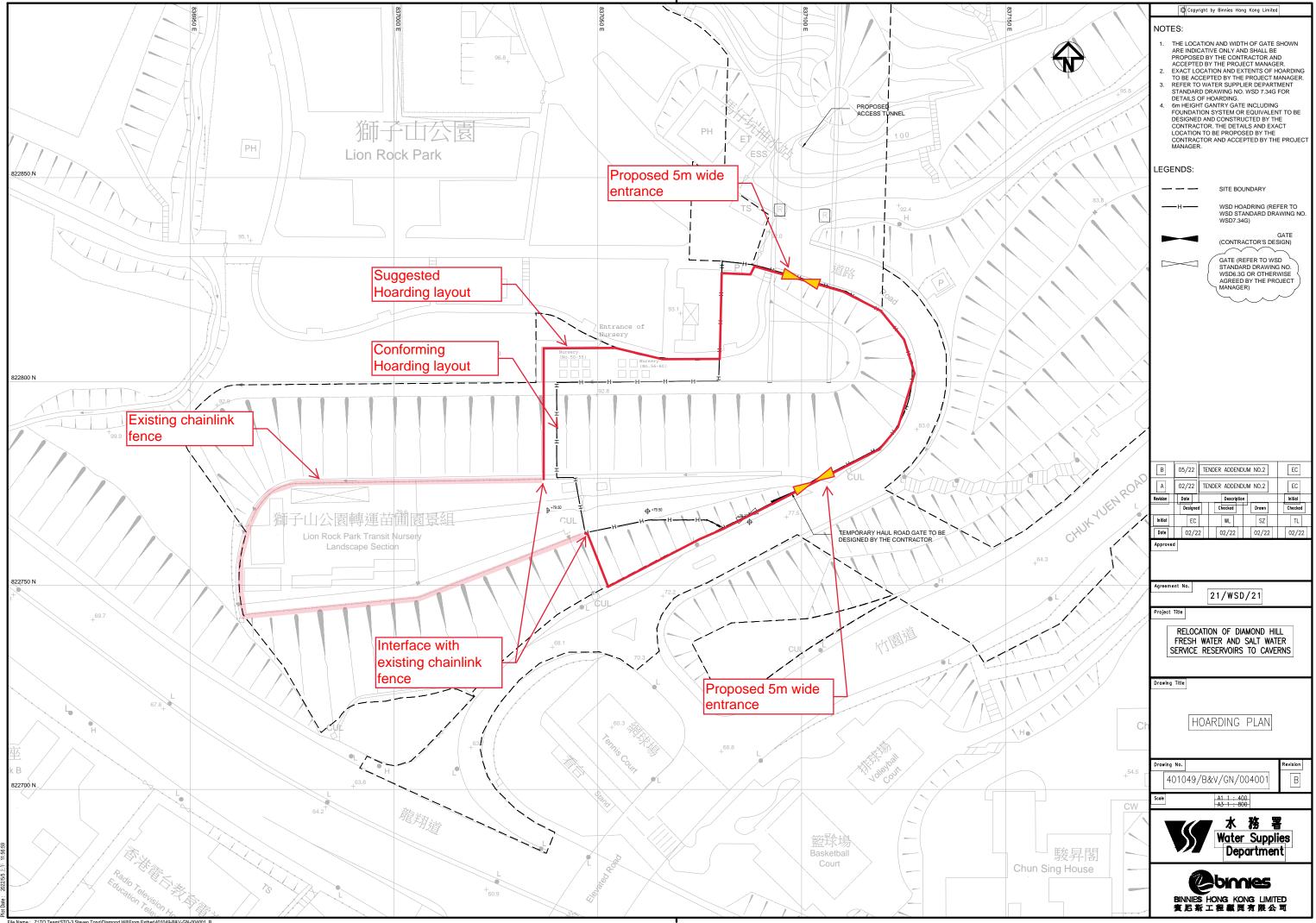


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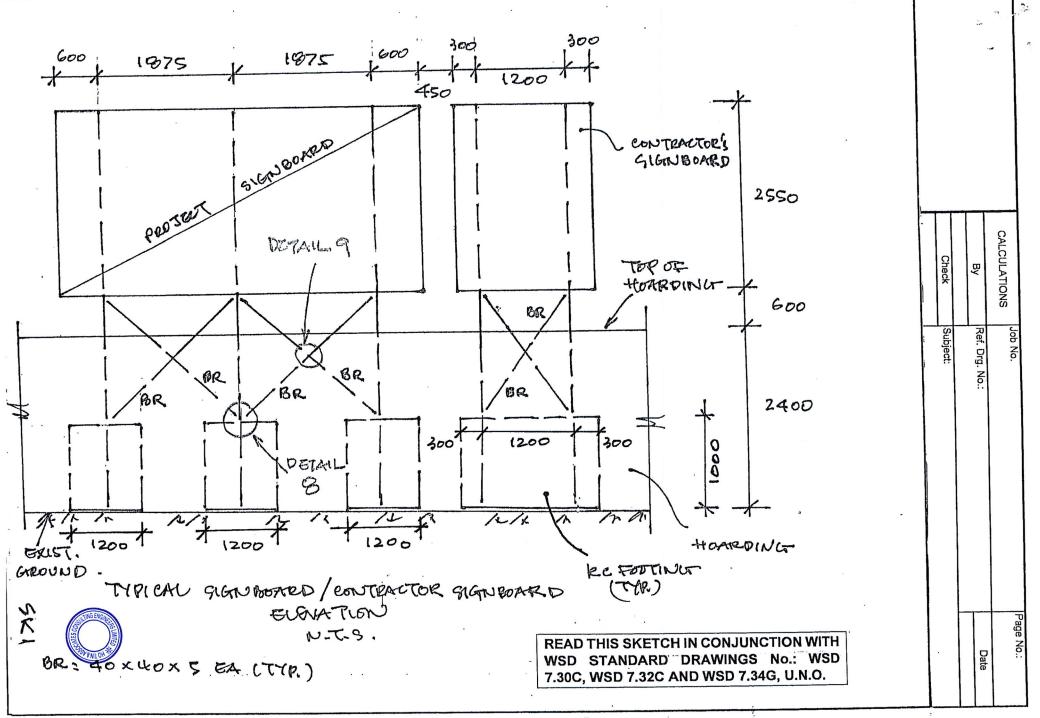
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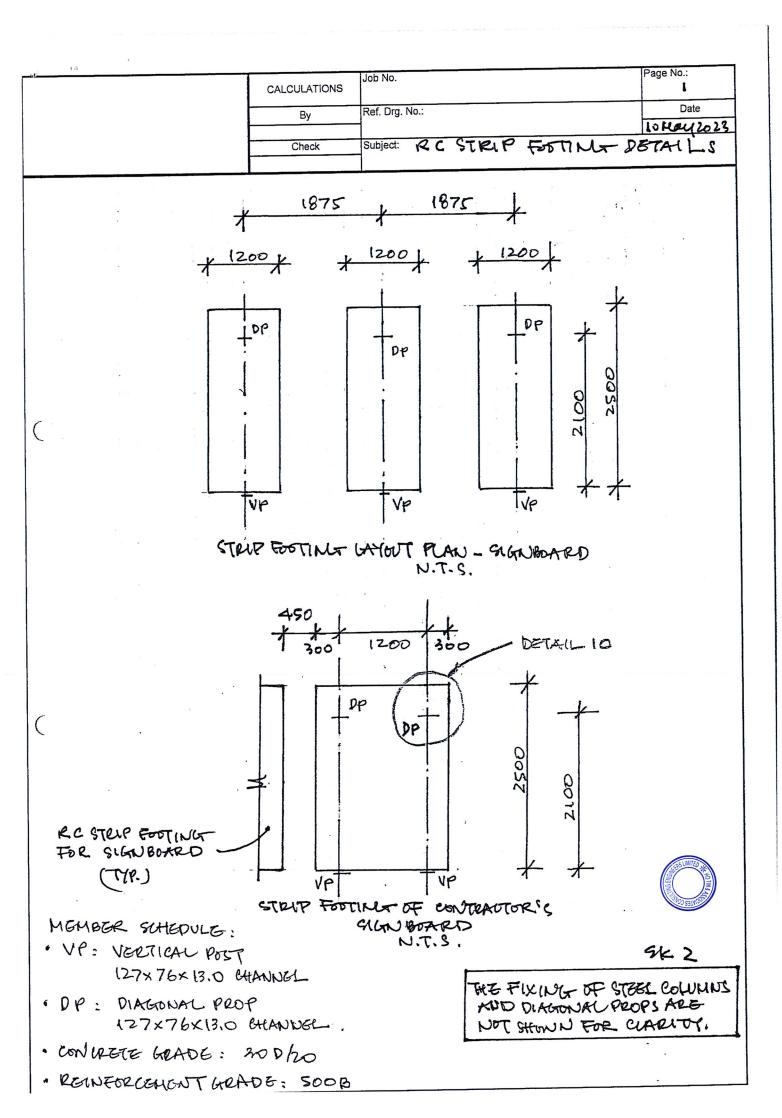
Contract No. 21/WSD/21 Relocation of Diamond Hill Fresh Water and Salt Water Reservoirs to Caverns

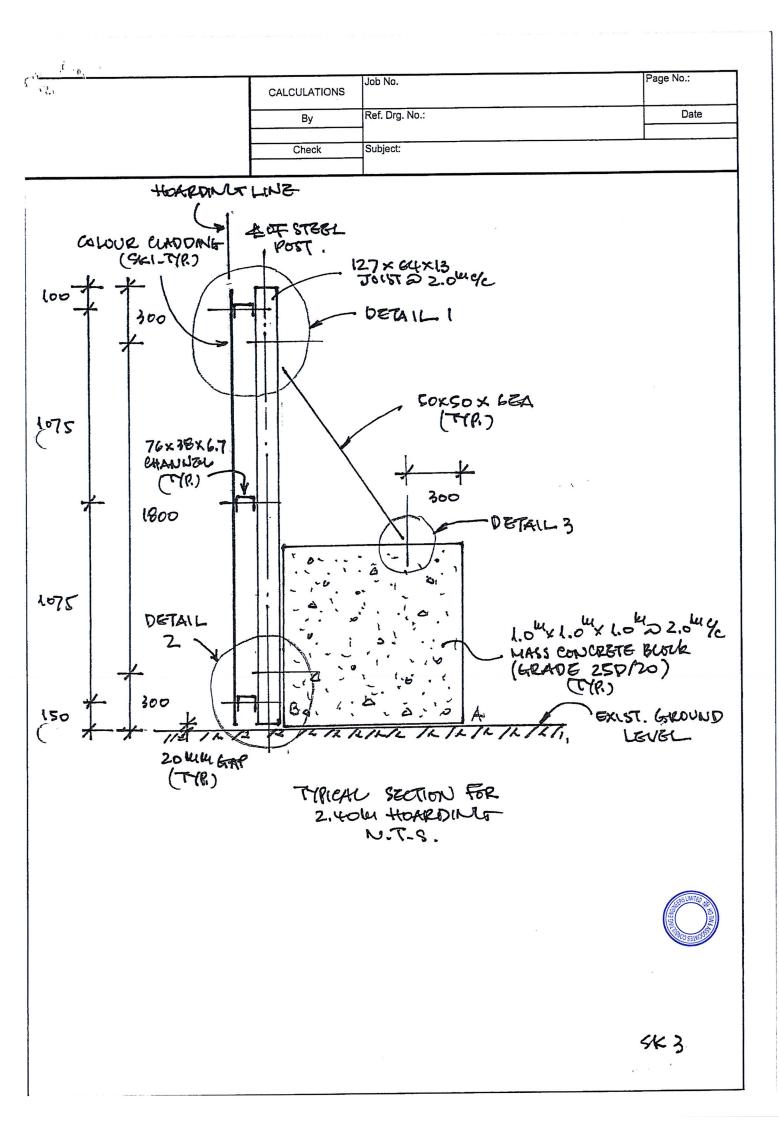
Appendix E – Conceptual Hoarding Plan

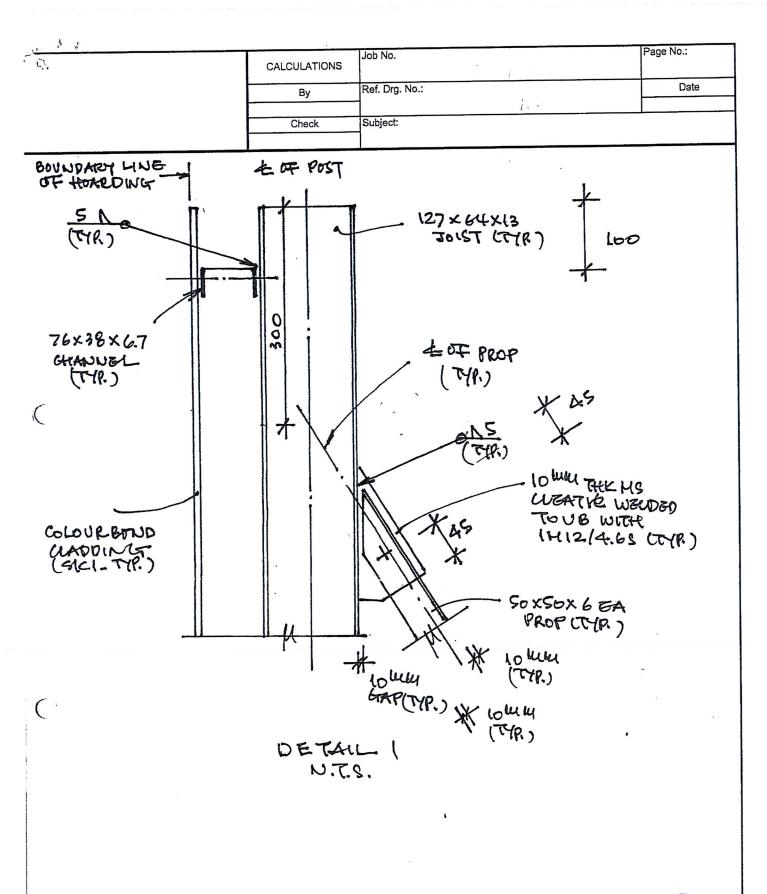


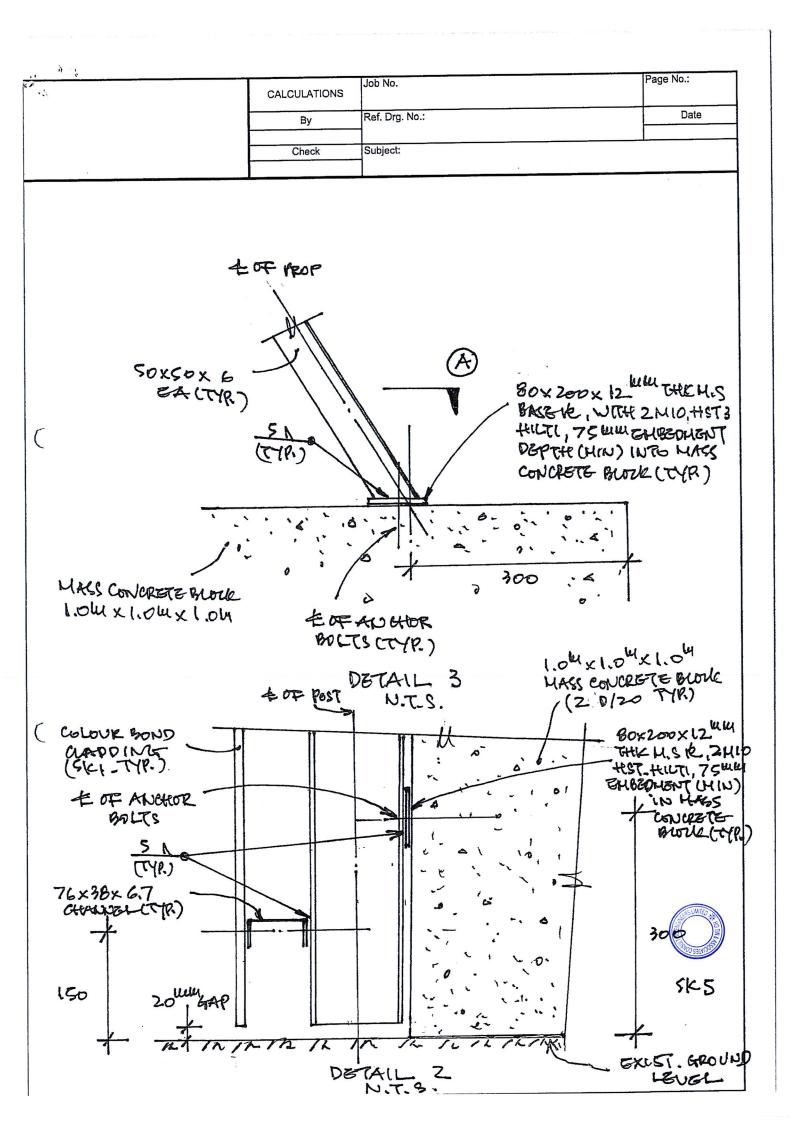
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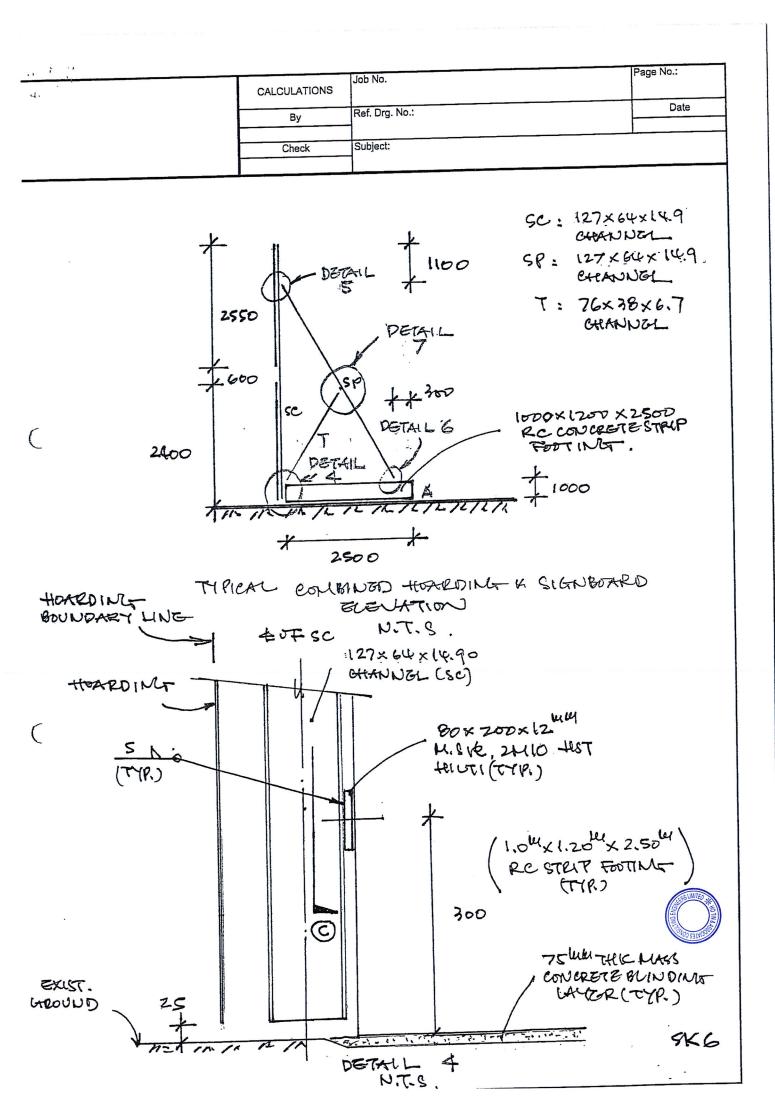


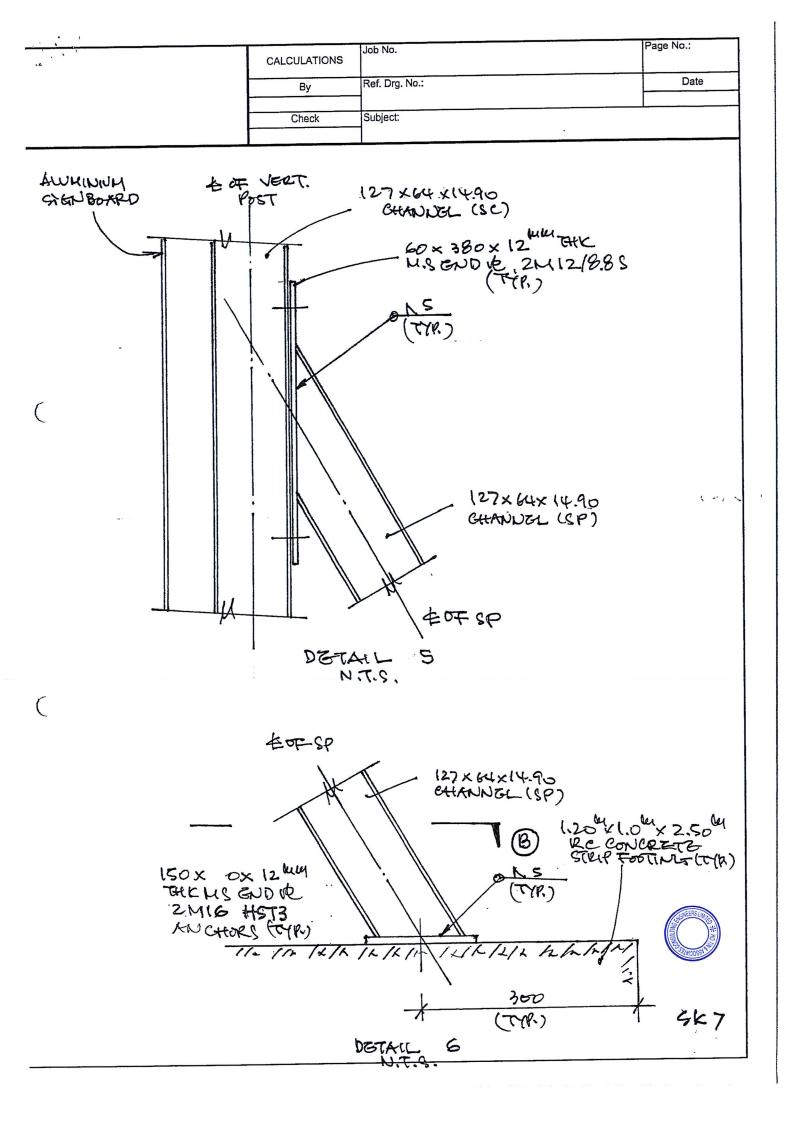


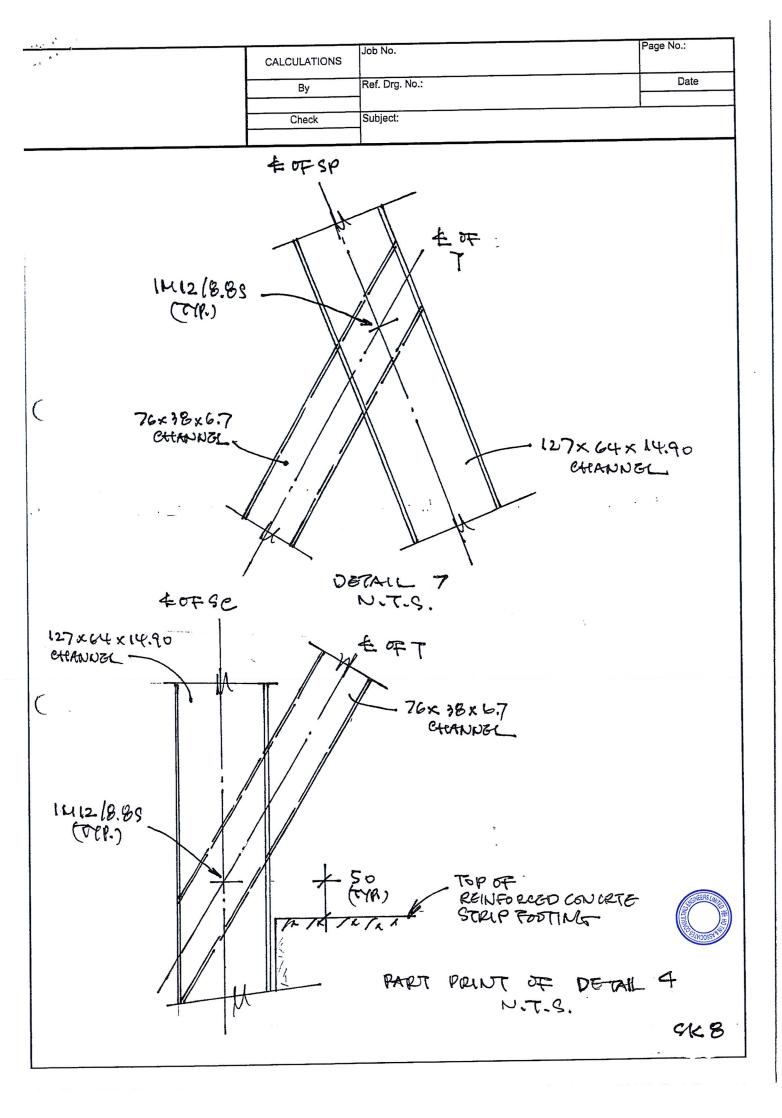




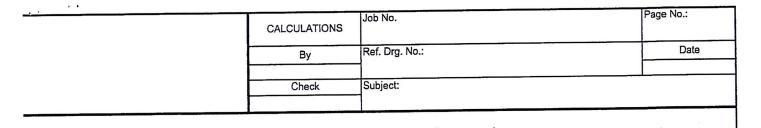


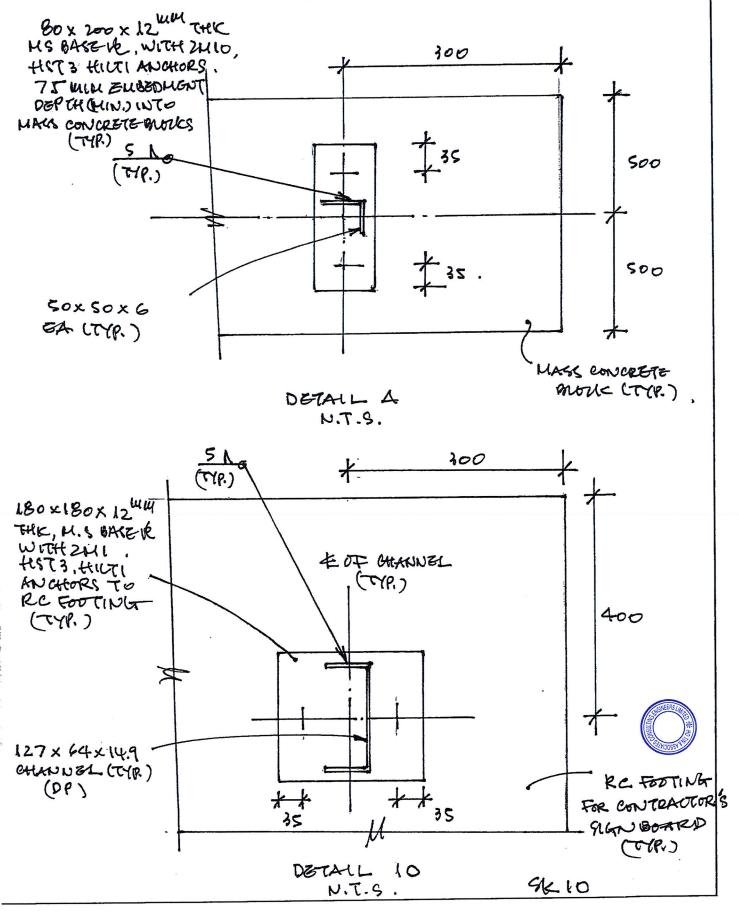


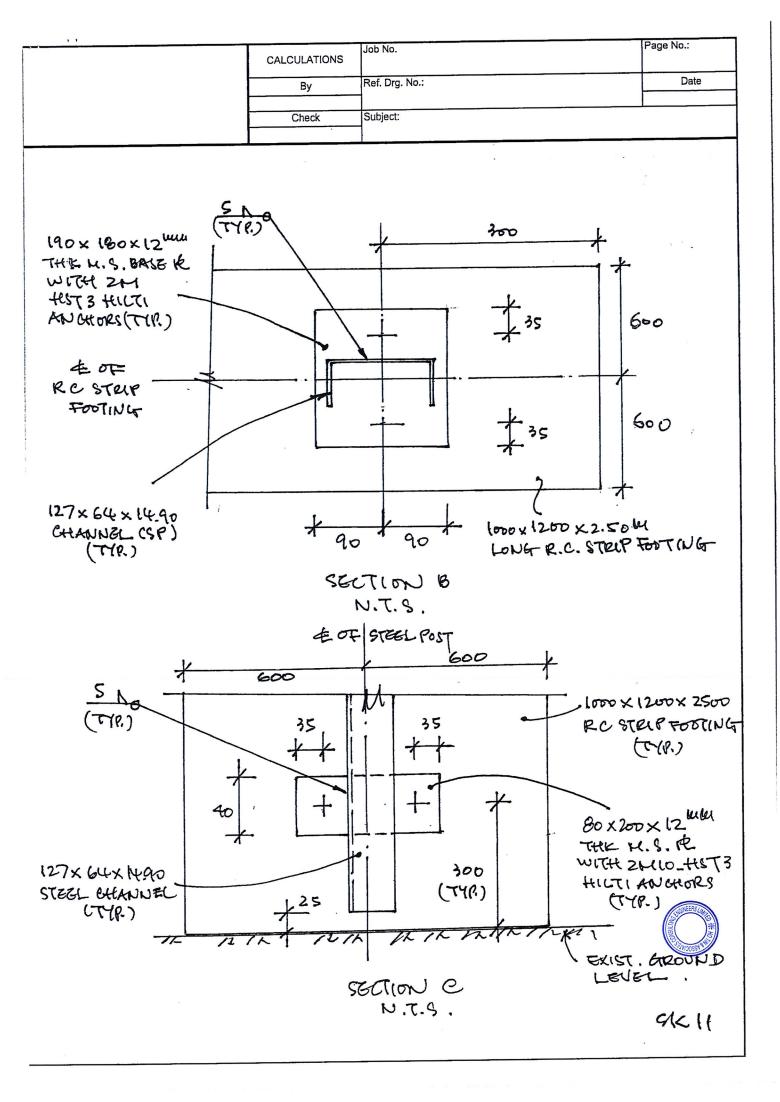


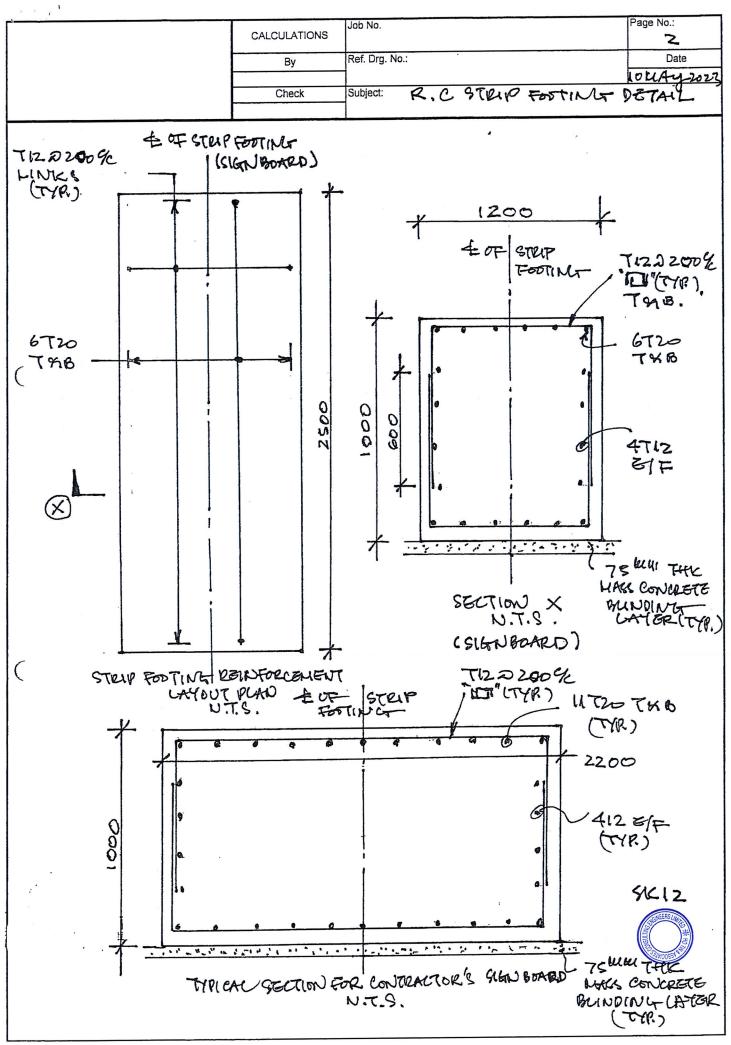


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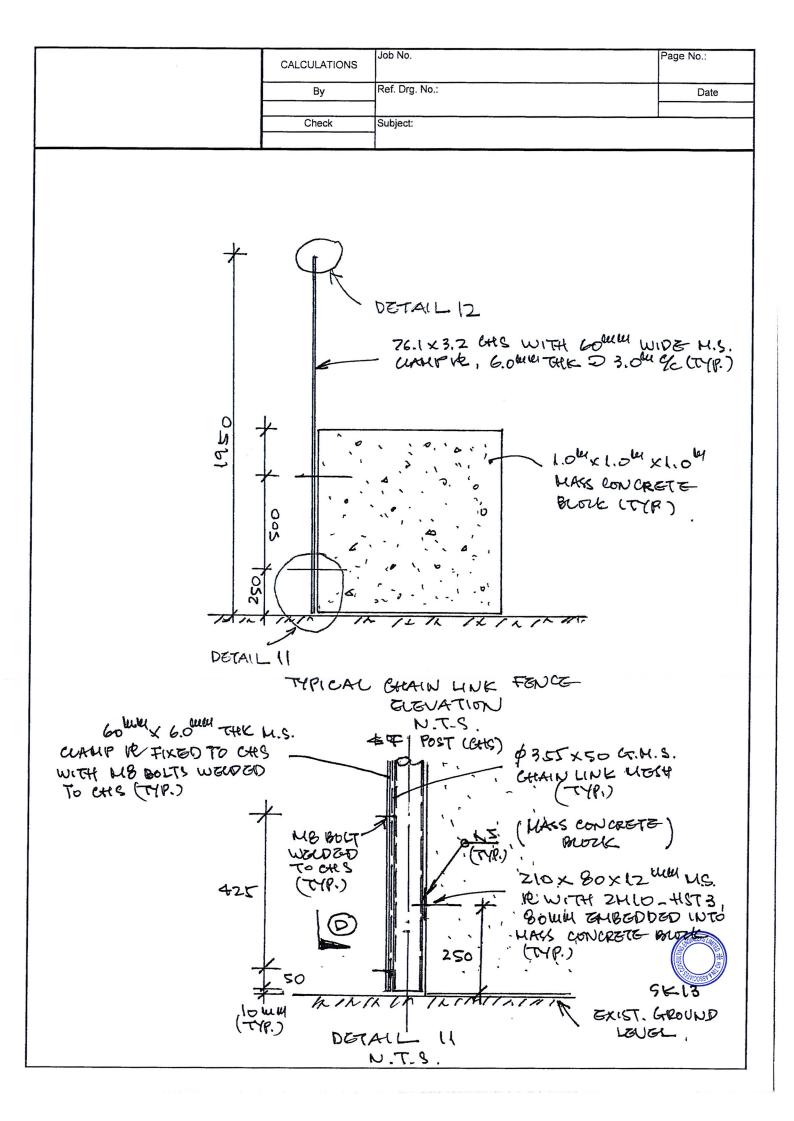


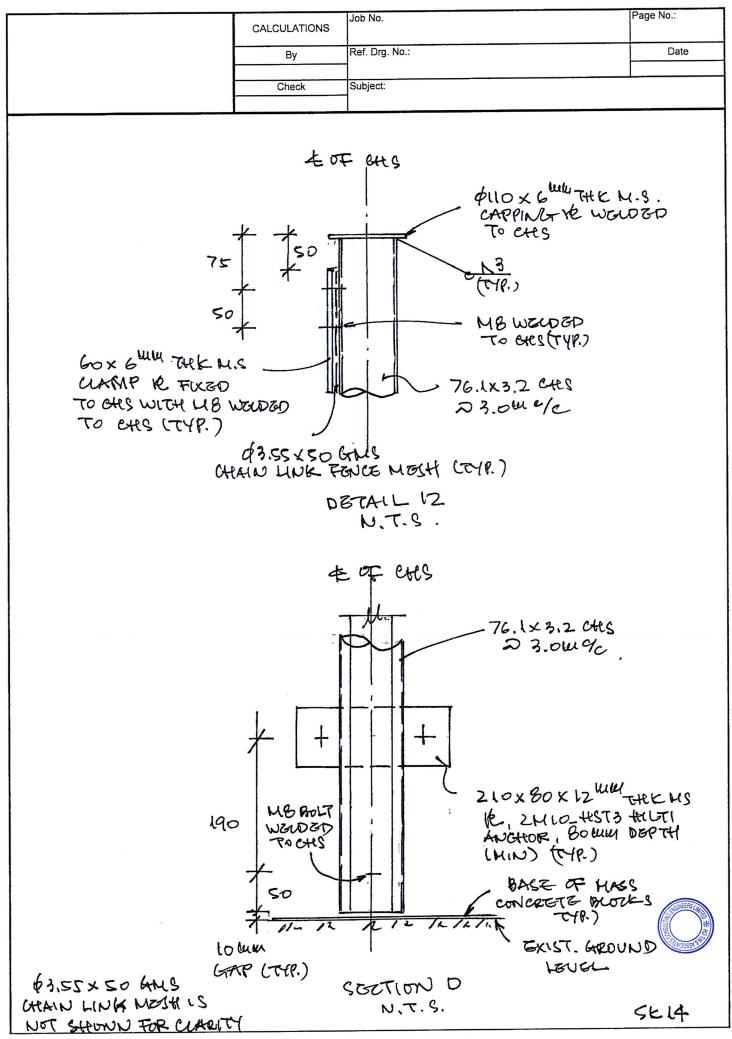




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GENERAL NOTES

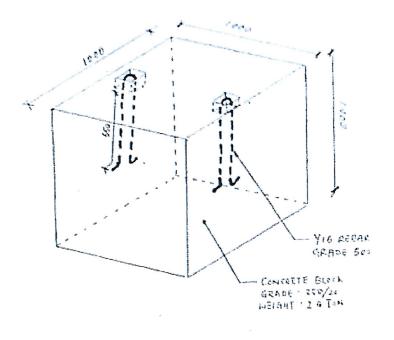
- 1. ALL SETTING OUT AND LEVELS SHALL BE VERIFIED ON SITE, U.N.O.
- 2. ALL STRUCTURAL STEEL MEMBERS AND PLATES SHALL BE GRADE S275 OR HIGHER.
- 3. ALL REINFORCEMENT SHALL BE GRADE 500B WITH psy = 500.0MPa MINIMUM, U.N.O.
- 4. CONCRETE COVER SHALL BE 75mm FOR BOTTOM REINFORCEMENT AND 45mm TO TOP AND SIDE FACES REINFORCEMENT LAYER
- 5. ALL STRUCTURAL STEEL MEMBERS AND PLATES SHALL BE PAINTED WITH RUSTED PROOF PIANT SYSTEM, U.N.O.
- 6. ALL CLEAT PLATES, BASE PLATES SHALL BE 12.0mm THICK, U.N.O.
- 7. ALL STRUCTURAL BOLTS SHALL BE M12/8.8S, GALVANISED, U.N.O.
- ALL HOLDING DOWN BOLTS SHALL BE M10 HST3-R, GALVANISED, HILTI WITH MIN EMBEDMENT DEPTH OF 75mm INTO EXISTING CONCRETE BLOCKS, U.N.O.
- 9. ALL WELDINGS SHALL BE 5.0mm CONTINUOUS FILLET WELD, ALL ROUNDS WITH MAX. DESIGN SHEAR STRESS OF 220.0MPa, U.N.O.
- 10. PROVIDE PACKERS TO SUIT BETWEEN END PLATES AND EXISTING STRUCTURAL RC ELEMENTS.
- 11. CONCRETE GRADE SHALL BE GRADE 30D/20 ADOPTED FOR THOSE EXISTING STRUCTURAL R.C. ELEMENTS, U.N.O.
- 12. ALL METAL CLADDING SHALL BE COLOUR BOND TYPE WITH THE MINIMUM THICKNESS OF 0.5mm, FIXED TO THOSE STEEL CHANNELS WITH SELF TAPPING SCREWS OR APPROVED EQUIVALENT.
- 13. DESIGN DATA
 - a. MAX DESIGN WIND LOADS FOR THE DEISIGN OF THE STEEL SUPPORTING FRAME ARE; 1.59 kPa FOR HOARDING AND CHAIN LINK FENCE, AND 1.85kPa FOR COMBINED SIGNBOARD WITH HOARDING, U.N.O.
 - b. DESIGN LOADS FOR REINFORCEDCONCRETE STRIP FOOTING WAS BASED ON THE MAX. ALLOWABLE GROUND BEARING PRESSURE OF 75.0kPa, U.N.O
 - c. THE MAX DESIGN CRACK WIDTH OF 0.3mm
 - d. ALL BOLTS SHALL BE GRADE M12/8.8S, U.N.O.
 - e. MIN ALLOWABLE SHEAR STRESS FOR FILLET WELD IS qv = 220.0 MPa
 - f. MAX ALLOWABLE BEARING STRESS q = 125kPa, U.N.O.
- 14 REFERENCES:

ALL DESIGN SHALL BE BASED AND COMPILED WITH THE CURRENT BUILDING REGULATIONS AS LISTED FOLLOWS;

- a. CODE OF PRACTICE FOR THE STRUCTURAL USE OF STEEL 2011
- b. CODE OF PRACTICE FOR THE STRUCTURAL USE OF CONCRETE 2013
- c. CODE OF PRACTICE ON WIND EFFECTS IN HONG KONG 2019
- d. Geoguide 1 2020 by GEOTECHNICAL ENGINEERING OFFICE, CEDD, HKSAR



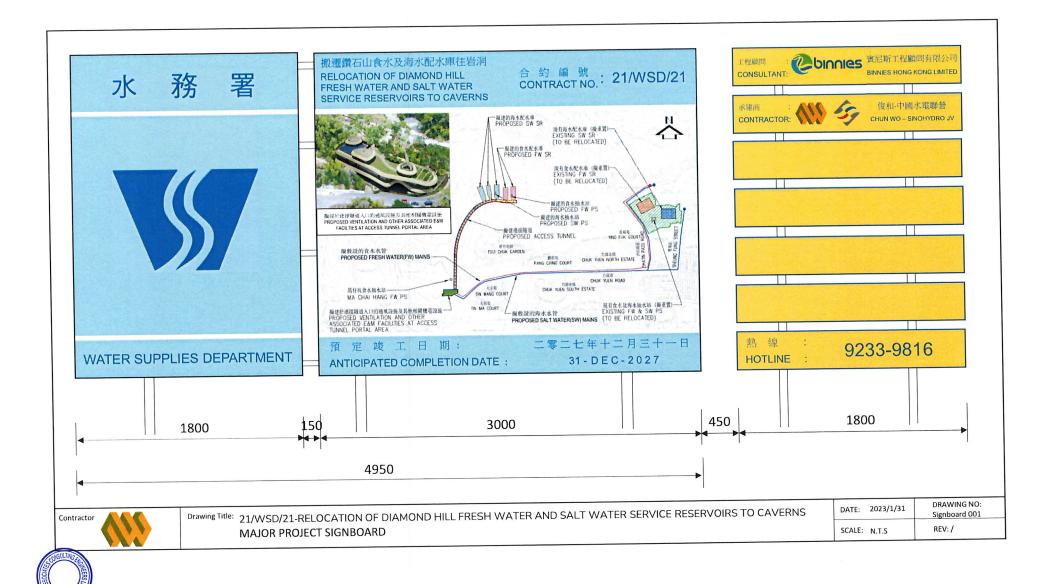
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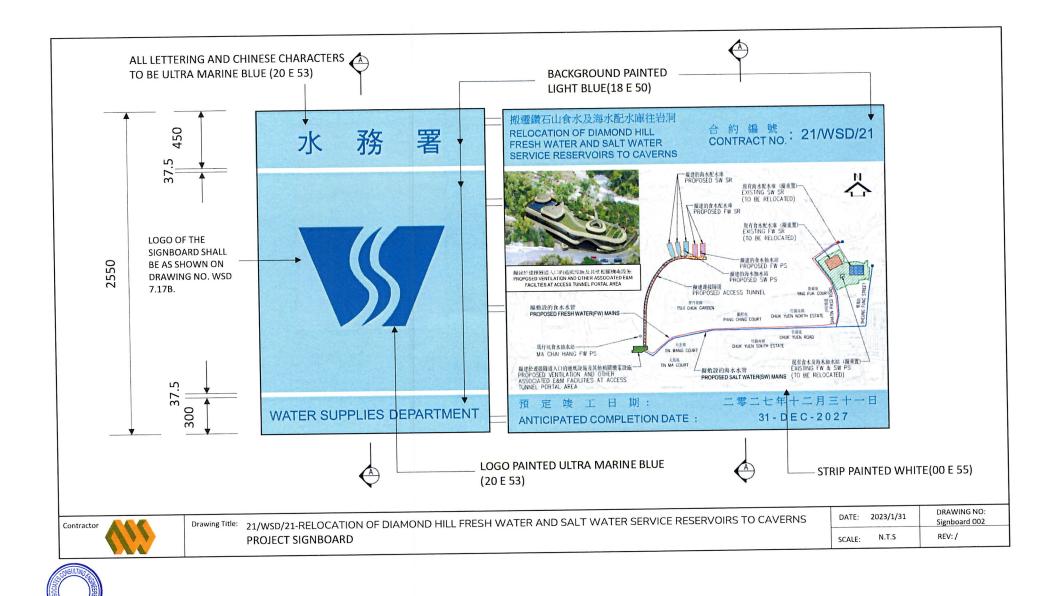


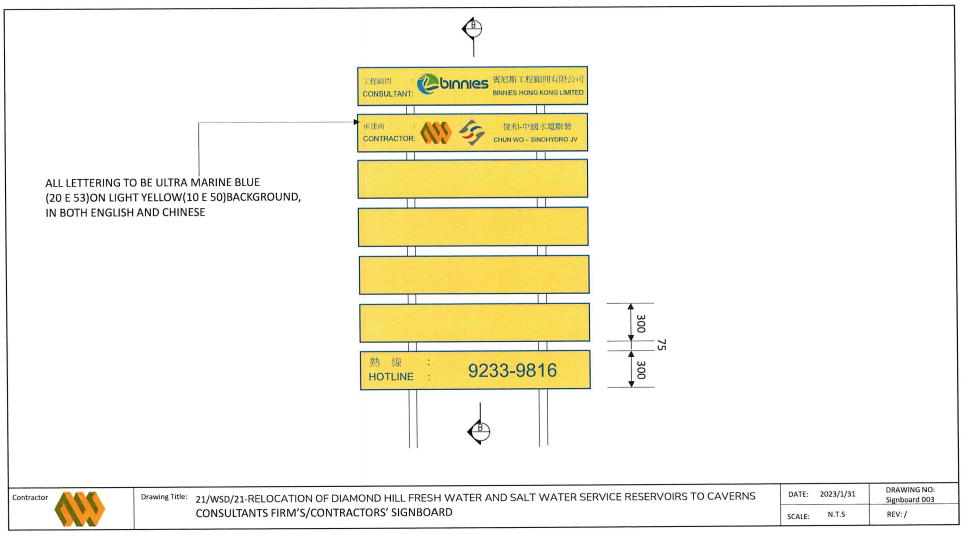
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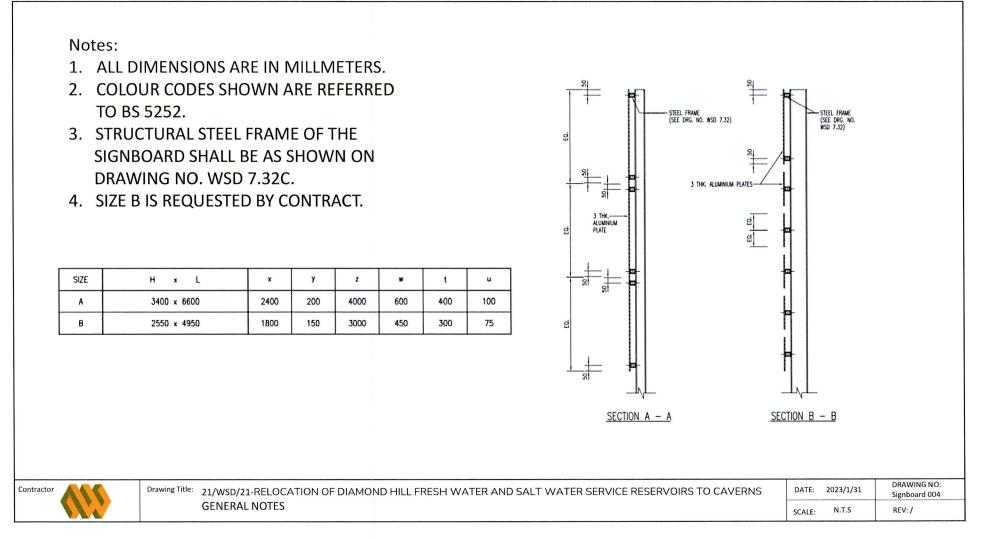






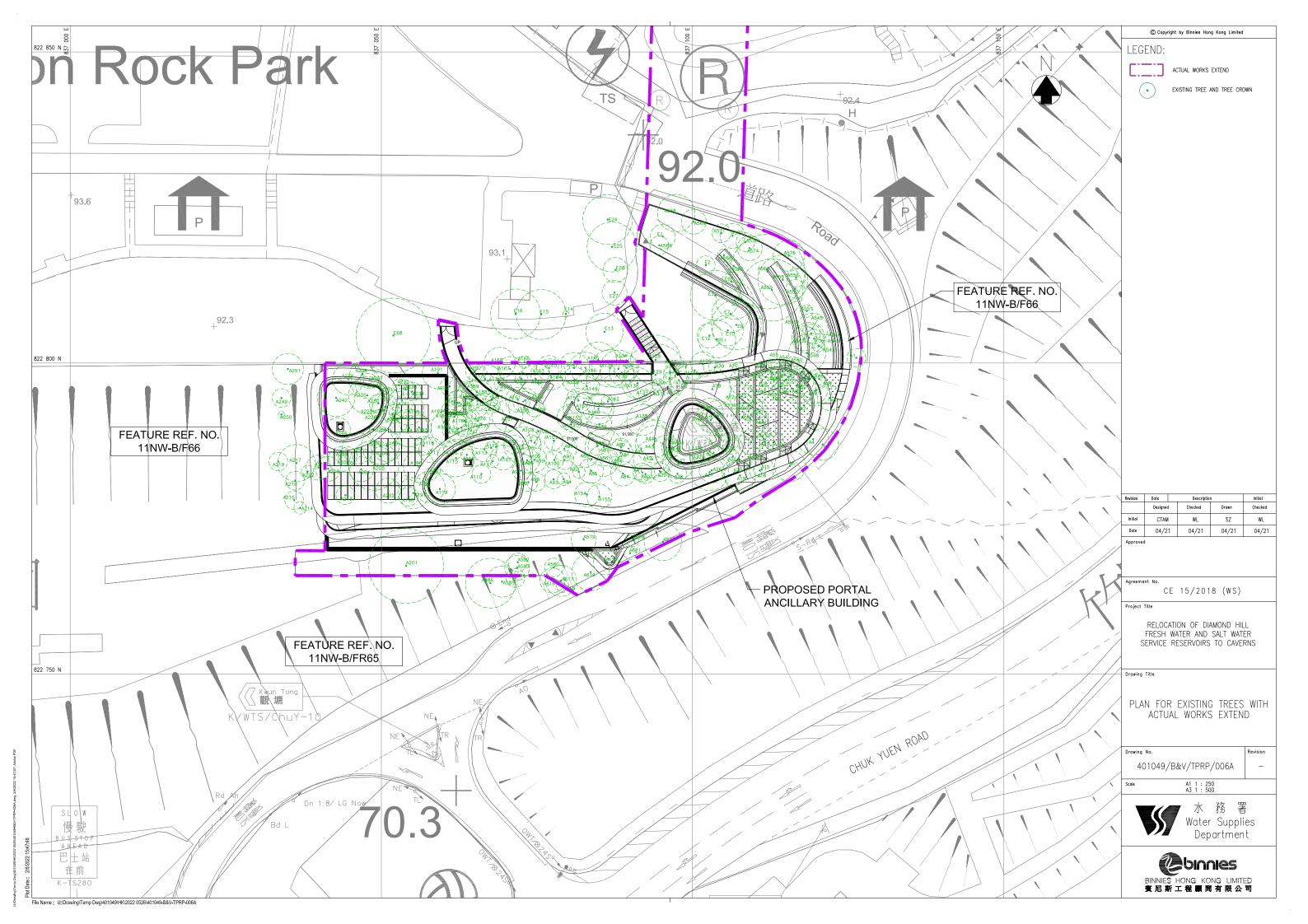


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Appendix F – Tree Treatment Plans and Tree Assessment Schedule



Tree Assessment Schedule

Date of Tree Survey : 16 February 2023

| International Interna | Level at Base | Coord | | Species | | | Tree Size | • | Amenity value | Form (Good, | Health condition | Structural | | Suitability for transplanting | Conservation status** (OVT/ Common Species/ Scheduled under Cap 96/ Protected under Cap 58/ Rare & | Recommendation (Transplant/ Retain/ | Remarks |
|---|------------------|------------|------------|----------------------|--------------|----|-----------|-------|------------------|------------------|-----------------------|-----------------------|---------|------------------------------------|---|--|---|
| N. Hole Orace Trans Dirac Marting Dirac Martin Marting Dirac Martin Marting <th>(mPD)</th> <th>(Northing</th> <th>, Easting)</th> <th>Scientific Name</th> <th>Chinese Name</th> <th></th> <th>Diameter</th> <th>Crown</th> <th>Fair, Poo</th> <th>Fair,) Poor)</th> <th>(Good, fair, Poor)</th> <th>(Good, Fair, Poor)</th> <th>Medium/</th> <th>Remarks*</th> <th></th> <th></th> <th></th> | (mPD) | (Northing | , Easting) | Scientific Name | Chinese Name | | Diameter | Crown | Fair, Poo | Fair,) Poor) | (Good, fair, Poor) | (Good, Fair, Poor) | Medium/ | Remarks* | | | |
| Image Status Status </td <td>85.46</td> <td>822800.835</td> <td>837126.351</td> <td>Acacia confusa</td> <td>台灣相思</td> <td>7</td> <td>223</td> <td>3</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Low</td> <td>Low survival rate after transplant</td> <td>Common Species</td> <td>Fell</td> <td>Leaning 15 degrees; co-dominant branches; decay at trunk base</td> | 85.46 | 822800.835 | 837126.351 | Acacia confusa | 台灣相思 | 7 | 223 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; co-dominant branches; decay at trunk base |
| Het Evel Difference Difference Difference | 85.64 | 822794.394 | 837122.060 | Acacia confusa | 台灣相思 | 7 | 223 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; decay & wound at trunk; restricted root |
| NA Birls Starting Starting Starting Starting Communication Communication <td>83.71</td> <td>822787.753</td> <td>837119.403</td> <td>Mallotus paniculatus</td> <td>白楸</td> <td>6</td> <td>159</td> <td>5</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Low</td> <td>Low survival rate after transplant</td> <td>Common Species</td> <td>Fell</td> <td>Leaning 5 degrees; co-dominant branches; exposed root</td> | 83.71 | 822787.753 | 837119.403 | Mallotus paniculatus | 白楸 | 6 | 159 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 5 degrees; co-dominant branches; exposed root |
| No. Mode Status | 82.84 | 822786.909 | 837120.934 | Sterculia lanceolata | 假蘋婆 | 4 | 143 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | co-dominant branches |
| Art Biol District District Control of a firmingent Contro of a firmingent Co | 82.16 | 822783.469 | 837115.698 | Sterculia lanceolata | 假蘋婆 | 4 | 159 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 5 degrees; co-dominant trunk |
| No. Status United Index United Index United Index Interest Status | 84.60 | 822787.369 | 837113.171 | Acacia confusa | 台灣相思 | 7 | 255 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; co-dominant trunk; cavity at branches; exposed root |
| And Bold Control Bold Control Contro Contro Control <td>85.09</td> <td>822787.838</td> <td>837111.461</td> <td>Acacia confusa</td> <td>台灣相思</td> <td>7</td> <td>111</td> <td>2</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Low</td> <td>Low survival rate after transplant</td> <td>Common Species</td> <td>Fell</td> <td>Leaning 25 degrees; cavity at branches; cross branches with A12</td> | 85.09 | 822787.838 | 837111.461 | Acacia confusa | 台灣相思 | 7 | 111 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 25 degrees; cavity at branches; cross branches with A12 |
| Ares Biss Displays | 84.83 | 822787.356 | 837111.608 | Acacia confusa | 台灣相思 | 8 | 223 | 3 | Fair | Fair | Poor | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; abnormal bark crack at trunk |
| And Biological Biological <td>84.83</td> <td>822787.281</td> <td>837109.426</td> <td>Acacia confusa</td> <td>台灣相思</td> <td>6</td> <td>127</td> <td>4</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Low</td> <td>Low survival rate after transplant</td> <td>Common Species</td> <td>Fell</td> <td>Leaning 10 degrees; abrupt trunk</td> | 84.83 | 822787.281 | 837109.426 | Acacia confusa | 台灣相思 | 6 | 127 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; abrupt trunk |
| And Ex1 S2711.00 Masks contain Optimize F F | 83.85 | 822785.440 | 837109.827 | Acacia confusa | 台灣相思 | 7 | 95 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; dead branches |
| Alta Butta Buta Buta <t< td=""><td>82.33</td><td>822782.895</td><td>837111.122</td><td>Acacia confusa</td><td>台灣相思</td><td>10</td><td>223</td><td>4</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Low</td><td>Low survival rate after transplant</td><td>Common Species</td><td>Fell</td><td>Leaning 10 degrees; co-dominant branches; termites at branches</td></t<> | 82.33 | 822782.895 | 837111.122 | Acacia confusa | 台灣相思 | 10 | 223 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; co-dominant branches; termites at branches |
| Abs 627 6276.300 Absolution Control Species Fiel Field Fi | 82.17 | 822782.726 | 837110.820 | Acacia confusa | 台灣相思 | 7 | 95 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees |
| No. Value 9.00 Access contains (PHEL) 6 190 2 Fair | 81.83 | 822781.918 | 837107.637 | Acacia confusa | 台灣相思 | 10 | 239 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 5 degrees |
| Acc 84.46 827/16.34 827/16.34 Account and an anternative Connon Species Fel Fel Fair Fai | 82.21 | 822782.389 | 837106.740 | Acacia confusa | 台灣相思 | 10 | 191 | 4.0 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 5 degrees; cross branches with A26 |
| Abd 4207163 Ströckie Abdie Control Frait | 83.49 | 822784.995 | 837106.505 | Acacia confusa | | 6 | 159 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 5 degrees |
| Abs 45.2 45.7 Accor oxfase 0 22.2 3 Fat Fat Fat Low Low subsidia that structures Commo Spaces Fat East Abs 46.05 82718.06 82712.07 82710.27 Accor oxfase 0 6 6 6 6 6 7 1 | 84.68 | 822786.847 | 837106.385 | Sterculia lanceolata | | 4 | 95 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | | Fell | |
| Abs 45.2 45.7 Accor oxfase 0 22.2 3 Fat Fat Fat Low Low subsidia that structures Commo Spaces Fat East Abs 46.05 82718.06 82712.07 82710.27 Accor oxfase 0 6 6 6 6 6 7 1 | 84.90 | 822787.310 | 837105.914 | Acacia confusa | 台灣相思 | 7 | 143 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; cross trunk |
| Abs. 94.00 92772.77 Acade anotable 0.6 mode | | | | | | 8 | | | Fair | _ | | Fair | | | | | |
| Abs 82.724 83710.276 Abace condua () 4 Far Far Far Far Far Far Far Far Far Low 2/bit data Common Species Fal Lening 10 degrees: co-dimated number A27 82.40 82728.406 83710.472 Abacie condua ()) 10 2 Far Far Far Far Far Common Species Fal Lening 10 degrees: co-dimated number A33 84.54 822786.81 82706.818 Abacie condua ()) 2 Far F | | | | | | 6 | | | Fair | Fair | Fair | Fair | Low | | | - | |
| AP 82.43 8270.297 Acces contan () B Contant Species Fell Lane 20 degress: cos banches with APC decided and species A23 83.44 82704.80 82704.80 83701.80 Acces contan () C Fer Fer Fer Low substant and transpired Common Species Fell Lane 20 degress: cos banches with APC decided and transpired A33 84.34 82708.87 Acces contan () 12 Fer Fer Fer Fer Low substant and transpired Common Species Fell Lane 20 degress: cos banches with APC decided and transpired A44 84.54 82708.57 Acces contan () 2 Fer Fer Fer Fer Fer Low substant and transpired Common Species Fell Lane 20 degress: cos banches with APC decided and transpired A45.0 82708.07 Acces contan () 8 2 Fer Fer < | 82.54 | 822782.741 | | | | 7 | 191 | 4 | | - | | | | | | | Leaning 10 degrees; co-dominant branches |
| A2 83.04 8274.93 837101.72 Aceas oxubas 0/fml 7 191 7 191 7 191 7 191 7 191 7 191 7 191 7 191 7 191 | | | | | | 8 | | | | | | | | | | | |
| A3 84.4 82708.518 637096.178 Acada: conduma ①州田田 6 111 2 Fair Fair Fair Low survival rate after transplant Common Species Feir e-dominant fair fair A3 84.44 827085.58 837096.555 Acada: conduma ①州田 6 111 2 Fair Fair Fair Low survival rate after transplant Common Species Feir Low survival rate after transplant | | | | | | 7 | | - | | - | | | | | | | |
| A48 84.78 822784.27 837096.555 Acada contusa (小田田田 6 111 2 Fair Fair Fair Low survival rate after transplart Common Species Feil Lanning 16 degrees: exposind not A56 84.75 822786.435 837065.750 Acada contusa (小田田 8 2.23 4 Fair Fair Fair Low survival rate after transplart Common Species Feil Lanning 10 degrees: co-dominant truits A37 82.08 82782.24 837067.753 Structure and transplart Common Species Feil Lanning 10 degrees: co-dominant truits A38 82.02 82778.224 837067.544 Acada contusa (小門田 8 1 Fair Fair Fair Low Low survival rate after transplart Common Species Feil Lanning 10 degrees: co-dominant truits A40 82.24 827278.427 837094.958 Structure and transplart Common Species Feil Lanning 10 degrees: co-dominant truits A44 84.39 822784.427 837094.538 Structure and transplart <td></td> <td></td> <td></td> <td></td> <td></td> <td>7</td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | 7 | | | | _ | | | | | | | |
| A58 84.54 82278-383 83708-550 Accia contrast (fmill 6 77 8 7 Fair Fair Fair Low Low survival rate dart transplutt Common Species Fail Lating 10 segres; co-dominant turk. A57 83.06 82778.341 837097.753 Stocula innovabat fill mill 7 123 Fair Fair Fair Low survival rate dart transplutt Common Species Fail malb-strackes A38 82.06 82778.201 837097.754 Accia contrast fift mill 7 127 3 Fair Fair Fair Low Low survival rate dart transplutt Common Species Fail contrast contrast fift mill fift mill fift mill fift mill fift mill fift mill Common Species Fail Low survival rate dart transplutt Common Species Fail Low survival rate dart tra | | | | | | 6 | | | | _ | | | | | | | Leaning 15 degrees; exposed root |
| A38 84.75 82278 4.33 83708 730 Asaca contas (前用目 8 223 4 Fair Fair Fair Low Low survivi rate after transplart Common Species Feil Lamity 10 degrees A37 83.06 82278.341 83709.753 Standa lancooluta (前用目 7 143 5 Fair Fair Fair Fair Low Low survivi rate after transplart Common Species Feil multi-branches A38 82278.427 83709.4877 Acacia contusa (前用目 7 127 3 Fair Fair Fair Fair Fair Fair Fair Fair Low survivi rate after transplart Common Species Feil Lewing 16 degrees: codominant branches A44 8232 82278.427 83709.1949 Acacia contusa (前用目 8 207 3 Fair Fair Fair Fair Fair Low uvivi rate after transplart Common Species Feil Lewing 16 degrees: codominant branches A44 85.15 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | | | | | 6 | | | | | | | | | | | |
| A37 83.06 82283.841 837097753 Sterulai lanceolata 信信息 7 14.3 6 Fair F | | | | | | 8 | | | | - | | | | | | | |
| A38 B225 B22782.210 B37097.584 Acces contusa 台冊思 7 127 3 Fair Fair <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>7</td> <td></td> <td>_</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | - | 7 | | _ | | - | | | | | | | |
| A39 8.2.21 8.2782.472 8.37094.877 Acacia confusa 台湾相思 7 96 3 Fair Fai | | | | | | 7 | | | | _ | | | | | | | |
| Add 82.24 822782.150 837092.460 Acacia contusa 台灣相思 7 95 3 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 20 degrees: codminant transchers A41 82.20 822784.247 83709.349 Acacia contusa 台灣相思 8 207 3 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 20 degrees: codminant transchers A42 83.28 822786.544 83709.3829 Acacia contusa 台灣相思 4 111 6 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 20 degrees A44 65.15 822787.646 83709.389 Stercula inacolata 台灣相思 111 6 Fair Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 20 degrees A44 85.16 822787.454 83710.9.06 Acacia contusa < | | | | | | , | | - | | | | | | | | - | |
| At1 82.30 822782.427 837091.949 Acacia confusa ①前根 8 207 3 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees; co-dominant branches A42 83.28 822784.57 837093.588 Stercula lanceolata ①前根 4 111 6 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A43 84.8 822787.866 837093.999 Stercula lanceolata ①前根 4 111 6 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A44 86.16 822787.45 83710.916 Acacia confusa ①前根 5 95 2 Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A44 86.60 822797.410 837119.912 Stercula lanceolata < | | | | | | 7 | | | | - | | | | | | | |
| A42 83.28 82278.45.47 83709.35.38 Stanula nanceata Time 4 111 6 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Laming 10 degrees A44 84.79 82278.644 83709.3282 Acacia contusa (\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | | | | | 8 | | | | | | | | | | | |
| A43 84.89 822786.944 837093.829 Acacla confusa 台湾相思 4 111 6 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A44 85.15 822787.866 837093.999 Stercula lanceolata 紅素 4 111 6 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A45 84.73 822787.456 837091.753 Acacia confusa 台湾相思 12 286 10 Fair Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A46 86.40 822795.44 837119.912 Stercula lanceolata 包標標 4 127 5 Fair Fair Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A47 86.30 822795.452 837110.883 Acacia confusa 台湾相思 4 143 4 Fai | | | | | | 4 | | - | | | | | | | | | |
| A44 85.15 822787.866 837093.999 Stercula lanceolata 受清能 4 11 6 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Indib-branches A45 84.73 822786.274 837091.753 Acacia confusa Griftille 12 286 10 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees A46 86.68 822797.445 837110.985 Acacia confusa 受ੱਗ 4 127 5 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 15 degrees; would at trunk; decay at branch A47 86.38 822795.54 837110.88 Acacia confusa Griftille 4 Fair Fair Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees; would at trunk; decay at branch A48 87.79 822797.10 837115. | | | | | | | | _ | | - | | | | | | | l egning 10 degrees |
| A45 84.73 82278-274 837091.753 Acacia confusa Gigfille 12 286 10 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees A46 86.68 822797.44 83719.905 Acacia confusa Gigfille 5 95 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 15 degrees A47 86.33 822795.44 837119.805 Acacia confusa Gigfille 112 5 Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 15 degrees A48 86.04 822795.44 837119.805 Acacia confusa Gigfille 4 143 4 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A49 87.79 822797.10 837115.883 Acacia confusa Gigfille 4 95 3 Fair Fair Fair Low Low survival rat | | | | | | | | | | | | | | | | | |
| A46 86.88 822797.45 837120.366 Acacia confusa 台湾相思 5 95 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 15 degrees; wound at trunk; decay at branch A47 86.33 822795.44 837119.02 Stercula lanceolata 街頭像 4 127 5 Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 15 degrees; wound at trunk; decay at branch A48 86.40 822795.525 837119.685 Acacia confusa 台湾相思 6 143 4 Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 15 degrees; Leaning 16 degrees; Common Species Fell Leaning 10 degrees; Common Species Fell Leaning 16 degrees; Common Species </td <td></td> | | | | | | | | | | | | | | | | | |
| A47 86.3 822796.644 837119.912 Stercula lanceolata 使標整 4 127 5 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 15 degrees A48 86.40 822795.525 837119.685 Acacia confusa 台湾相思 6 143 4 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 15 degrees A48 86.40 822795.410 837115.512 Acacia confusa 台湾相思 4 143 4 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 16 degrees A50 87.96 822795.407 837115.83 Acacia confusa 台湾相思 8 191 6 Fair Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A51 87.95 822795.507 837115.98 Acacia confusa 台湾相思 5 127 2 Fair Fair Fair Low | | | | | | | | | | - | | | | | | | |
| A48 86.40 822795.525 837119.685 Acacia confusa 台湾相思 6 143 4 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A49 87.79 822797.40 837115.12 Acacia confusa 台湾相思 4 143 4 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A50 87.96 822796.405 837115.88 Acacia confusa 台湾相思 4 163 4 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A51 87.95 822796.407 837115.88 Acacia confusa 台湾相思 95 3 Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 50 degrees codimant branches; exposed Acacia confusa 台湾相思 127 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 50 degrees <td></td> <td></td> <td></td> <td></td> <td>111710-0</td> <td>-</td> <td></td> | | | | | 111710-0 | - | | | | | | | | | | | |
| A49 87.79 822797.10 837117.512 Acacia confusa Gigfilie 4 143 4 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A50 87.96 822796.485 837115.883 Acacia confusa Gigfilie 4 95 6 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 5 degrees A51 87.95 822797.789 837115.883 Acacia confusa Gigfilie 4 95 3 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees; co-dominant branches; exposed A52 88.76 822797.789 837115.88 Acacia confusa Gigfilie 8 111 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees; co-dominant branches; exposed A53 88.66 822797.789 837115.88 Acacia confusa Gigfilie 8 111 2 Fair Fair | | | | | | | | - | | | | | | | | | Leoning 15 degrees |
| A50 87.96 822796.485 837116.883 Acacia confusa Affene 8 191 6 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 5 degrees A51 87.95 822795.097 837115.982 Acacia confusa Affene 4 95 3 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees; co-dominant branches; exposed A52 88.76 822797.789 837115.388 Acacia confusa Affene 5 127 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees; co-dominant branches; exposed A53 88.66 822797.58 837114.581 Acacia confusa Affene 8 111 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees A54 89.73 822799.544 837114.855 Acacia confusa Affene 8 143 3 Fair Fair Fai | | | | | | - | | - | | | | | | | | | |
| A51 87.95 822796.907 837115.982 Acacia confusa 台湾相思 4 95 3 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees; co-dominant branches; exposed A52 88.87 822797.759 837115.388 Acacia confusa 台湾相思 5 127 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees A53 88.66 822797.354 837116.061 Acacia confusa 台湾相思 8 111 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees A53 88.66 822797.354 837114.051 Acacia confusa 台湾相思 7 95 2 Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A54 89.78 822798.048 837114.891 Acacia confusa 台湾相思 7 95 2 Fair Fair Fair Low< | | | | | | | | _ | | _ | | | | | | | |
| A52 88.71 822797.28 837115.388 Acacia confusa Affelle 5 127 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees A53 88.66 822797.354 837115.061 Acacia confusa Gmmu 8 111 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees A54 89.73 822799.044 837114.495 Acacia confusa Affelle 7 95 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A55 89.69 82798.049 837114.491 Acacia confusa Affelle 8 143 3 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A56 82798.427 837114.491 Acacia confusa Affelle 7 191 2 Poor Poor Poor Low survival rate after transplant Common Species< | | | | | | - | | | | _ | | | | | | | |
| A53 88.66 822797.34 837115.061 Acacla confusa 合門相思 8 111 2 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 10 degrees A54 89.73 822799.044 837114.855 Acacla confusa Grifting 7 95 2 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 10 degrees A56 89.74 822798.427 837114.485 Acacla confusa Grifting 7 95 2 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 10 degrees A56 89.74 822798.427 837113.482 Acacla confusa Grifting 7 191 2 Poor Poor Poor Low Low survival rate after transplant Common Species Feil Leaning 30 degrees A57 89.94 822798.430 837112.785 Acacia confusa Grifting 2 | | | | | | | | _ | | - | | | | | | | |
| Ast 89.73 82279.04 837114.855 Acacia confusa Afailla 7 95 2 Fair Fair Fair Low Low survival rate for transplant Common Species Fell Leaning 10 degrees A55 89.69 822798.690 837114.491 Acacia confusa Afailla 3 Fair Fair Fair Low Low survival rate for transplant Common Species Fell Leaning 10 degrees A56 89.74 822798.427 837113.482 Acacia confusa Afailla 3 Fair Fair Fair Low Low survival rate for transplant Common Species Fell Leaning 10 degrees A56 89.74 822798.427 837113.482 Acacia confusa Afailla 2 Poor Poor Poor Low Low survival rate for transplant Common Species Fell Leaning 30 degrees; cross trunk with A58; uproot; exp A57 89.94 822798.380 837112.795 Acacia confusa Afailla 2 Fair Fair Fair Low | | | | | | 5 | | | | _ | | | | | | | |
| A55 89.69 822798.690 837114.491 Acacia confusa Affentile 8 143 3 Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A56 89.74 822798.427 837113.482 Acacia confusa Affentile 7 191 2 Poor Poor Poor Low Low survival rate after transplant Common Species Fell Leaning 30 degrees; cross trunk with A58; uproot; expr A57 89.94 822798.380 837112.795 Acacia confusa Affentile 7 143 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 5 degrees | | | | | | 8 | | - | | - | | | | | | | |
| A56 89.74 822798.427 837113.482 Acacia confusa 6月雨思 7 191 2 Poor Poor Poor Low Low survival rate for transplant Common Species Fell Leaning 30 degrees; cross trunk with A58; uproot; expression; expressio | | | | | | 7 | | | | - | | | | | | | |
| A57 89.94 822798.380 837112.795 Acacia confusa 台灣相思 7 143 2 Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 5 degrees | | | | | | 8 | | - | | - | | | | | | | |
| | | | | | | 7 | | _ | | | | | | | | | |
| | | | | | | 7 | | | | | | | | | | | |
| A58 90.78 822799.336 837111.309 Acacie confusa 台灣相思 7 191 2 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Cross truth with A56 | | | | | | 7 | | | | - | | | | | | | |
| A59 89.96 822797.70 837111.843 Acacia confusa 台灣相思 5 127 2 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 5 degrees | | | | Acacia confusa | 台灣相思 | 5 | | 2 | Fair | Fair | | Fair | Low | Low survival rate after transplant | Common Species | | |
| A60 88.49 822796.255 837114.266 Acacia confusa 台灣相思 5 143 2 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 20 degrees | | | | | | 5 | - | | | | | | | | | | |
| A61 88.15 822795.95 837114.839 Acacia confusa 台灣相思 6 127 4 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees | | | | Acacia confusa | 台灣相思 | 6 | | | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | | |
| A62 85.97 822793.205 837117.906 Sterculia lanceolata 費請答 5 127 3 Fair Fair Fair Low Survival rate after transplant Common Species Fell Leaning 5 degrees | 85.97 | 822793.205 | 837117.906 | Sterculia lanceolata | 假蘋婆 | 5 | 127 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | |
| A64 85.82 822790.972 837110.709 Acacia confusa 台灣相思 7 191 3 Fair Fair Fair Low Survival rate after transplant Common Species Feil Leaning 15 degrees | 85.82 | 822790.972 | 837110.709 | Acacia confusa | 台灣相思 | 7 | 191 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees |

Tree Assessment Schedule

Date of Tree Survey : 16 February 2023

| matrix matrix< | Tree | Level at Base | Coord | | Species | | | Tree Size | | Amenity value | Form (Good, | Health condition | Structural | | Suitability for transplanting | Conservation status** (OVT/ Common Species/ Scheduled under Cap 96/ Protected under Cap 58/ Rare & | Recommendation (Transplant/ Retain/ | Remarks |
|--|---------|------------------|------------|------------|----------------------|-------------|----|------------------|------------------------|-----------------------|----------------|-----------------------|-----------------------|---------|------------------------------------|---|--|--|
| Image Image <t< th=""><th>Tag No.</th><th>(mPD)</th><th></th><th></th><th>Scientific Name</th><th></th><th></th><th>Diameter (mm)</th><th>Crown Spread (m)</th><th>(Good, Fair, Poor)</th><th>Fair, Poor)</th><th>(Good, fair, Poor)</th><th>(Good, Fair, Poor)</th><th>Medium/</th><th>Remarks*</th><th></th><th></th><th></th></t<> | Tag No. | (mPD) | | | Scientific Name | | | Diameter (mm) | Crown Spread (m) | (Good, Fair, Poor) | Fair, Poor) | (Good, fair, Poor) | (Good, Fair, Poor) | Medium/ | Remarks* | | | |
| m | A65 | | 822791.141 | | Dead tree | 死樹 | 7 | 255 | 5 | Poor | Poor | Poor | Poor | Low | Low survival rate after transplant | Common Species | Fell | |
| Image Image <t< td=""><td>A66</td><td>87.00</td><td>822792.612</td><td>837110.506</td><td>Acacia confusa</td><td>台灣相思</td><td>7</td><td>191</td><td>3</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Low</td><td>Low survival rate after transplant</td><td>Common Species</td><td>Fell</td><td>Leaning 15 degrees</td></t<> | A66 | 87.00 | 822792.612 | 837110.506 | Acacia confusa | 台灣相思 | 7 | 191 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees |
| N <th< td=""><td>A67</td><td>86.94</td><td>822792.747</td><td>837109.297</td><td>Acacia confusa</td><td>台灣相思</td><td>8</td><td>239</td><td>4</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Low</td><td>Low survival rate after transplant</td><td>Common Species</td><td>Fell</td><td>Leaning 15 degrees; co-dominant branches</td></th<> | A67 | 86.94 | 822792.747 | 837109.297 | Acacia confusa | 台灣相思 | 8 | 239 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; co-dominant branches |
| No. Lot <td>A68</td> <td>88.78</td> <td>822795.675</td> <td>837110.276</td> <td>Acacia confusa</td> <td>台灣相思</td> <td>10</td> <td>239</td> <td>4</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Low</td> <td>Low survival rate after transplant</td> <td>Common Species</td> <td>Fell</td> <td>Leaning 15 degrees</td> | A68 | 88.78 | 822795.675 | 837110.276 | Acacia confusa | 台灣相思 | 10 | 239 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees |
| N1 | A69 | 89.44 | 822796.873 | 837111.064 | Acacia confusa | 台灣相思 | 10 | 239 | 4 | Poor | Poor | Poor | Poor | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; uproot; exposed root |
| 1/10 | A70 | 91.20 | 822799.167 | 837107.455 | Acacia confusa | 台灣相思 | 8 | 191 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; decay & wound at trunk |
| 51 54.4 54.9 54.9 54.9 74.9 | A71 | 89.91 | 822796.917 | 837107.924 | Acacia confusa | 台灣相思 | 6 | 127 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; co-dominant branches |
| Vert Vert< Vert Vert< Vert< Vert< Vert | A72 | 88.44 | 822794.666 | 837107.920 | Acacia confusa | 台灣相思 | 5 | 191 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; cross branches |
| Sym Sym <td>A73</td> <td>87.57</td> <td>822793.625</td> <td>837108.224</td> <td>Acacia confusa</td> <td>台灣相思</td> <td>7</td> <td>159</td> <td>3</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Low</td> <td>Low survival rate after transplant</td> <td>Common Species</td> <td>Fell</td> <td>Leaning 20 degrees</td> | A73 | 87.57 | 822793.625 | 837108.224 | Acacia confusa | 台灣相思 | 7 | 159 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees |
| mm | A74 | 86.31 | 822791.459 | 837104.104 | Sterculia lanceolata | 假蘋婆 | 4 | 111 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | |
| 171 1818 1872 < | A75 | 86.05 | 822790.843 | 837102.959 | Acacia confusa | 台灣相思 | 10 | 255 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 30 degrees; decay at trunk base; dead branches |
| 177 177 177 178 <td>A76</td> <td>86.15</td> <td>822790.970</td> <td>837101.403</td> <td>Acacia confusa</td> <td>台灣相思</td> <td>8</td> <td>127</td> <td>2</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Low</td> <td>Low survival rate after transplant</td> <td>Common Species</td> <td>Fell</td> <td>Leaning 15 degrees; co-dominant branches; decay at trunk</td> | A76 | 86.15 | 822790.970 | 837101.403 | Acacia confusa | 台灣相思 | 8 | 127 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; co-dominant branches; decay at trunk |
| No. Norma N | | 87.09 | | | | | 10 | 255 | 4 | | | | | | | | | Leaning 10 degrees; co-dominant branches |
| 97 97< | | 88.87 | 822795.814 | | | | | | 6 | Fair | | | Fair | | | | | |
| Image Market Market </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Leaning 15 degrees; dead branches</td> | | | | | | | - | | - | | | | | | | | | Leaning 15 degrees; dead branches |
| Abil Abil Abil Abil Abil Abil Abil Abil Abil Abili Abili <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7</td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> | | | | | | | 7 | | _ | | | | | - | | | | |
| No. State S | | | | | | 111 2 10 40 | | | | | | | | - | | | | |
| Hole Biole | | | | | | | - | | | | | | | | | | | |
| Hat Biolog Biolog <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> | | | | | | | - | | | | | | | | | | | |
| How Soluri Soluri <td></td> | | | | | | | | | | | | | | | | | | |
| Image: Part Part Part Part Part Part Part Part | | | | | | | - | - | | | | | | | | | | Leaning 20 degrees, co-dominant trunk, minor wound at trunk |
| Abb Best | | | | | | 1276.2 | - | | | | | | | - | | | | |
| NAME B400 B2778 / B278 B2788 / B278 / B28 / B28 / B278 / B28 / B28 / B28 / B278 / B28 | | | | | | | - | | - | | | | | | | | | |
| No. 84/97 82/714/03 807/98/97 Acade condus 0/ffill 8 9 7/fill 0/fill 6 9 7/fill 0/fill 6 9 7/fill 0/fill 6 9 1/fill 8/fill 0/fill 6 9 7/fill 7/fill <th<< td=""><td></td><td></td><td></td><td></td><td></td><td>111 2 10 40</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<<> | | | | | | 111 2 10 40 | | | | | | | | | | | | |
| Arth 8.9.8 6.273.4.48 5.079.4.32 6.040 bit of 4.000 bit of 4.0000 bit of 4.000 bit of 4.0000 bit | | | | | Acacia confusa | | 8 | | | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | | |
| 1402 62.81 62.91 <th6< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>8</td><td></td><td>4</td><td></td><td></td><td></td><td></td><td>Low</td><td>Low survival rate after transplant</td><td></td><td></td><td></td></th6<> | | | | | | | 8 | | 4 | | | | | Low | Low survival rate after transplant | | | |
| Abs. 0.16 8.2771.04 SY07.274 Access contain fright 7 | | 83.89 | 822784.402 | 837079.428 | Acacia confusa | 台灣相思 | 8 | 175 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | | |
| Abs 10.4 4277 30 2070/487 Accia contas 0 / mile 9 2 Par Par Par Low subvisite Common Species Fail Data temperature ABS 11.80 422703.03 0.3070487 Accia contas 0/mile 7 191 3 Fair Fair Low subvisite temperature Common Species Fail Lawny 10 degrees. codmant temperature ABI 42.00 422704.221 430704.252 Accia contas 0/mile 8 22.3 3 Fair Fair Low subvisite temperature Common Species Fail Lawny 5 degrees. codmant temperature ABI 42.00 42.074.221 K3707.252 Accia contas (/mile 8 22.3 4 Fair Fair Low subvisite temperature Common Species Fail Lawny 10 degrees Accia contas (/mile 6 12.3 Fair Fair Fair Low subvisite temperature Common Species Fail Lawny 10 degrees Accia contas Accia contas Accia contas | | 82.61 | 822782.484 | 837081.757 | Bridelia tomentosa | 土蜜樹 | 6 | 95 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | | |
| Abs 61.45 62270.003 83774.82 Access conclusa (PRII) 7 191 191 191 191 191 191 191 191 19 | A93 | 82.15 | 822781.310 | 837077.674 | Acacia confusa | 台灣相思 | 7 | 175 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 25 degrees; cross branches; exposed root |
| Abs 81:99 82709.061 83707.550 Acacis contrast Chilli B Fair F | A94 | 82.04 | 822781.338 | 837079.317 | Dead tree | 死樹 | 6 | 95 | 2 | Poor | Poor | Poor | Poor | Low | Low survival rate after transplant | Common Species | Fell | |
| AB7 82.80 B2278/271 837073283 Acada contua 台湾市 Par | A95 | 81.85 | 822780.903 | 837074.882 | Acacia confusa | 台灣相思 | 7 | 191 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees |
| ABS B391 B2278.436 S3707.427 Acacia confusa CMRIB B 222 Far Far Far Far Low Low survival rate dater transplant Common Spocies Fell Laming 5 degrees; co-diminant banches; cortas banches with A105 A00 83.80 822784.435 837077.707 Acacia confusa CmRIB 8 223 Far Far Far Far Far Low Low survival rate dater transplant Common Spocies Fell Laming 10 degrees; co-dominant banches; with A105 A101 85.41 822787.458 83707.707 Acacia confusa CmRIB Far Far Far Far Far Low Low survival rate dater transplant Common Spocies Fell Laming 10 degrees; co-dominant true's, c | A96 | 81.89 | 822780.856 | 837073.635 | Acacia confusa | 台灣相思 | 7 | 191 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; co-dominant branches |
| A89 83.00 82278.435 83707.4601 Acada contusa ①供相思 8 223 4 Pair Fair Low Low survival rate after transplart Common Species Fail Laming 10 degrees A100 85.83 822787.209 837077.797 Acada contusa ①供相思 8 164 </td <td>A97</td> <td>82.90</td> <td>822782.721</td> <td>837072.552</td> <td>Acacia confusa</td> <td>台灣相思</td> <td>8</td> <td>203</td> <td>3</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Low</td> <td>Low survival rate after transplant</td> <td>Common Species</td> <td>Fell</td> <td>Leaning 5 degrees</td> | A97 | 82.90 | 822782.721 | 837072.552 | Acacia confusa | 台灣相思 | 8 | 203 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 5 degrees |
| Attos 83.83 82784-422 83707.777 Acacia confusa 台相思 159 3 Fair Common Species Fair Common Species Fair Leaving 10 degrees; exposed not Atto 85.41 822787.422 83707.464 Acacia confusa 台橋相思 6 127 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fail Leaving 10 degrees; exposed not Attos 82.787.422 83707.480 Acacia confusa 台橋相思 6 127 2 Fair Fair Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaving 10 degrees; condiniant transplant Loavis unival rate after transplant Common Species Feil Leaving 10 degrees; condiniant transplant Leaving 10 degrees; condiniant transplant Acacia confusa 台橋相思 8 143 3 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaving 10 degrees; condiniant truns; condiniant truns; condiniant truns; condiniant truns; condiniant truns; condiniant truns; condiniant | A98 | 83.91 | 822784.365 | 837073.427 | Acacia confusa | 台灣相思 | 8 | 223 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 5 degrees; co-dominant branches; cross branches with A105 |
| A101 85.41 822787.50 Acacla confusa 台灣相思 7 159 3 Pair Fair Fair Low Low survival rate dart transplant. Common Species Fell Laming 10 degrees: exposed not A102 85.38 822787.208 83707.460 Acacla confusa 台灣相思 6 127 2 Fair Fair Fair Low Low survival rate dart transplant. Common Species Fell Laming 10 degrees: exposed not A103 85.44 822787.470 83707.080 Acacla confusa 台灣相思 6 127 2 Fair Fair Fair Fair Low Low survival rate dart transplant. Common Species Fell Laming 10 degrees: co-dominant transplant. Common Species Fell Laming 10 de | A99 | 83.90 | 822784.435 | 837074.601 | Acacia confusa | 台灣相思 | 8 | 223 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees |
| And to 85.41 82277-519 837077.09 Acacla contusa (figle) 7 159 3 Fair Fair Fair Fair Fair Low Low survival rate after transplant Common Species Feil Laming 10 degrees: exposed not A103 85.48 822778-72.09 83707.480 Acacla contusa (figle) 6 121 2 Fair Fair <td>A100</td> <td>83.83</td> <td>822784.432</td> <td>837077.797</td> <td>Acacia confusa</td> <td>台灣相思</td> <td>8</td> <td>159</td> <td>3</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Low</td> <td>Low survival rate after transplant</td> <td>Common Species</td> <td>Fell</td> <td></td> | A100 | 83.83 | 822784.432 | 837077.797 | Acacia confusa | 台灣相思 | 8 | 159 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | |
| A103 85.44 822787.482 83707.4088 Acacia confusa 合用相目 6 121 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Learning 10 degrees A104 85.55 822786.771 85707.2677 Acacia confusa 台湾相目 10 286 6 Fair Fair Fair Fair Fair Low survival rate after transplant Common Species Fell Learning 10 degrees; co-dominant transk, co-dominant branches, wond at branches A105 84.44 822786.434 83707.2677 Acacia confusa 台湾相目 8 100 3 Fair Fair Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Learing 20 degrees; co-dominant transk, | A101 | 85.41 | 822787.515 | 837077.709 | Acacia confusa | | 7 | 159 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | | Fell | Leaning 10 degrees; exposed root |
| A103 8.5.4 8.2278.422 8.3707.408 Acacia confusa Offilia 6 121 2 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Lening 10 degrees. Comminant transformat Common Species Feil Lening 5 degrees. Comminant transformat Common Species Feil Lening 10 degrees. Comminant transformat Common Species Feil Lening 5 degrees. Comminant transformat Common Species Feil Lening 10 degrees. Comminant transformat | A102 | 85.38 | 822787.209 | 837074.640 | Acacia confusa | 台灣相思 | 6 | 127 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees |
| A104 8535 822786.771 837072.677 Acacia confusa ① 南德 10 286 6 Fair Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 5 degrees; co-dominant trunks; co-dominant trunk; co-dominant t | | 85.44 | | | | | | | | | | | | | | | | |
| A105 84.54 82278.54.34 837072.819 Accaic confusa Cigning 20 Accaic confusa Accaic confusa Cigning 20 Accaic confusa Accaic confusa Cigning 20 Accaic confusa Cigning 20 Accaic confusa Cigning 20 Accaic confusa Cigning 20 Accaic confusa Accaic confusa Aim 2 Aim 2 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 10 degrees; co-dominant trunk; dead branches A111 85.7 822784.25 837067.909 Accaic confusa Cigning 20 Fair Fair Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 10 degrees; co-dominant trunk; dead branches | | 85.35 | | | | | 10 | | | | | | | | | | | Leaning 5 degrees; co-dominant trunks; co-dominant branches; wound at branches |
| A106 85.38 822786.322 837071.322 Acacia confusa 台灣相思 8 180 3 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 20 degrees; co-dominant trunk; dead branches A107 84.14 822784.131 837069.548 Acacia confusa 台灣相思 4 111 4 Fair Fair Fair Low Low survival rate after transplant Common Species Feil dead stb A110 82.78 822784.121 837069.09 Acacia confusa 台灣相思 10 22.3 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 10 degrees; co-dominant trunk; dead branches A111 85.76 822786.127 837067.653 Acacia confusa 台灣相思 5 95 2 Poor Poor Low Low survival rate after transplant Common Species Feil Leaning 10 degrees; co-dominant trunk; dead transplant Common Species Feil Leaning 10 degrees; co-dominant trunk; dead transplant Common Species Feil Leaning 10 degrees; co-dominant trunk; dead transplant Common Species | | | | | | | | | - | | | | | | | | | |
| A107 84.14 82784.813 837069.548 Acacia confusa Offente 4 111 4 Fair Fair Fair Low Low survival rate after transplant Common Species Fell dead stud A110 82.78 822782.161 837069.583 Acacia confusa Offente 4 11 4 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 16 degrees; co-dominant funk; vs-haped A111 83.57 822786.121 837067.509 Acacia confusa Offente 5 9 2 Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 16 degrees; co-dominant funk; vs-haped A112 84.85 822786.121 837065.54 Acacia confusa Offente 5 9 2 Pair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 16 degrees; co-dominant funk; vs-haped A113 85.02 822786.121 837065.55 Acacia confusa Offente 7 143 2 Fair< | | | | | | | | | | | | | | | | | | |
| A110 82.78 822782.18 837066.083 Acacia confusa 台湾相思 10 223 3 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 15 degrees; co-dominant turk; v-shaped A111 83.57 822784.225 837067.059 Acacia confusa 台湾相思 8 159 2 Pair Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 10 degrees; co-dominant turk; v-shaped A112 84.85 822786.347 837067.653 Acacia confusa 台湾相思 7 175 4 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 30 degrees; uorod A113 84.39 822785.240 837067.555 Acacia confusa 台湾相思 7 143 2 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 16 degrees; uorod A114 84.39 822785.240 837061.598 Acacia confusa 台湾相思 10 225 6 Fair | | | | | | | - | | | | | | | | | | | |
| A111 83.57 822784.225 837067.099 Acacia confusa Angle 8 159 2 Fair Fair Fair Low survival rate after transplant Common Species Feil Leaning 10 degrees. Gegrees. | | | | | | | | | | | | | | | | | | |
| A112 84.85 822786.347 837067.553 Acacia confusa 台湾相思 5 95 2 Poor Poor Poor Low Low survival rate after transplant Common Species Fell Leaning 30 degrees; uproot A113 85.02 822786.121 837067.553 Acacia confusa 台湾相思 7 175 4 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 16 degrees; uproot A114 84.39 822785.240 837061.96 Acacia confusa 台湾相思 7 143 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 16 degrees; uproot A114 84.39 822785.240 837061.96 Acacia confusa 台湾相思 7 143 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 16 degrees; co-dominant branches; cos branches with A115 A116 84.24 822785.985 837061.986 Acacia confusa 台湾相思 6 223 Fair Fair Fair | | | | | | | | | | | | | | | | | | |
| A113 85.02 822786.121 837066.544 Acacia confusa 台湾相思 7 175 4 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 15 degrees; cross branches with A115 A114 84.39 822785.20 837061.596 Acacia confusa 台湾相思 7 143 2 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 15 degrees; cross branches with A115 A115 84.24 822784.729 837061.596 Acacia confusa 台湾相思 10 255 6 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 15 degrees; cross branches with A115 A116 85.04 822786.798 837061.598 Acacia confusa 台湾相思 6 Pair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 25 degrees; co-dominant branches; cross branches with A116 A116 85.08 822786.598 837061.598 Acacia confusa 台湾相思 16 Fair Fair Fair | | | | | | | 0 | | | | | | | | | | | |
| A114 84.39 822785.20 837063.755 Acacia confusa 台湾相思 7 143 2 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 15 degrees: co-dominant branches; cross branches with A116 A115 84.24 822784.729 837061.598 Acacia confusa 台湾相思 10 255 6 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 15 degrees; co-dominant branches; cross branches with A116 A116 85.08 822786.598 837061.598 Acacia confusa 台湾相思 10 223 4 Fair Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 26 degrees; co-dominant branches; cross branches with A116 A117 85.08 822786.710 837067.74 Acacia confusa 台湾相思 10 223 4 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 30 degrees; co-dominant branches; wound at branches; | | | | | | | 5 | | | | | | | | | | | |
| A115 84.24 82784.79 837061.996 Acacia confusa 台湾相思 10 255 6 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 15 degrees; co-dominant branches; ross branches with A116 A116 85.08 822785.985 837061.598 Acacia confusa Griftul B 6 223 3 Fair Fair Fair Fair Low survival rate after transplant Common Species Feil Leaning 25 degrees; co-dominant branches; ross branches with A115 A117 85.08 822786.701 837067.987 Acacia confusa Griftul B 10 223 4 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 25 degrees; co-dominant branches; ross branches with A115 A118 85.34 822786.710 837067.787 Acacia confusa Griftul B 5 95 3 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 26 degrees; co-dominant branches; ross branches; wound at b | | | | | | | - | | | | | | | | | | | |
| All Bound Bound Acacia confusa Acacia confusa Acadia confusa Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 26 degrees; co-dominant branches; cross branches with A115 A118 85.34 822786.710 837065.734 Acadia confusa Ammond famility Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 30 degrees; co-dominant branches; cross branches with | | | | | | | / | | - | | | | | | | | | |
| A117 85.30 822785.99 837057.987 Acacia confusa 67#10 10 223 4 Fair Fair Fair Low survival rate after transplant Common Species Feil Leaning 26 degrees; co-dominant branches; wound at branches; A118 85.34 822786.710 837057.987 Acacia confusa 1@#10 5 95 3 Fair Fair Fair Low survival rate after transplant Common Species Feil Leaning 30 degrees; co-dominant branches; wound at branches; wound at branches; A119 82.12 82279.763 837059.398 Sterculia lanceolata fights 5 Fair Fair Fair Low survival rate after transplant Common Species Feil Leaning 30 degrees; co-dominant branches; wound at branches; wound at branches; wound at branches; A119 82.12 82279.763 837059.398 Sterculia lanceolata fights Fair Fair Fair Low survival rate after transplant Common Species Feil Leaning 30 degrees; | | | | | | | - | | | | | | | | | | | |
| A118 85.24 822786.710 837056.774 Acacia confusa Om/m 5 95 3 Fair Fair Fair Low survival rate after transplant Common Species Fell Leaning 30 degrees A119 82.12 822779.763 837059.398 Sterculia lanceolata fight 5 95 Fair Fair Fair Low survival rate after transplant Common Species Fell Leaning 30 degrees | | | | | | | Ŭ | | - | | | | 1 611 | - | | | | |
| A119 82.12 822779.763 837059.398 Sterculia lanceolata Employee Fair Fair Fair Fair Fair Common Species Fell | | | | | Acacia confusa | | | | | | | | | Low | Low survival rate after transplant | | | |
| | A118 | | | | Acacia confusa | 台灣相思 | v | | | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 30 degrees |
| A 120 82.16 822780.098 837057.731 Acacia confusa 台灣相思 6 143 5 Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees | A119 | 82.12 | 822779.763 | 837059.398 | Sterculia lanceolata | 假蘋婆 | 4 | 135 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | |
| | A120 | 82.16 | 822780.098 | 837057.731 | Acacia confusa | 台灣相思 | 6 | 143 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees |

Tree Assessment Schedule

Date of Tree Survey : 16 February 2023

| Image Image <th< th=""><th>Tree</th><th>Level at Base</th><th>Coord</th><th></th><th>Species</th><th></th><th></th><th>Tree Size</th><th></th><th>Amenity value</th><th>Form (Good,</th><th>Health condition</th><th>Structural</th><th></th><th>Suitability for transplanting</th><th>Conservation status** (OVT/ Common Species/ Scheduled under Cap 96/ Protected under Cap 58/ Rare &</th><th>Recommendation (Transplant/ Retain/</th><th>Remarks</th></th<> | Tree | Level at Base | Coord | | Species | | | Tree Size | | Amenity value | Form (Good, | Health condition | Structural | | Suitability for transplanting | Conservation status** (OVT/ Common Species/ Scheduled under Cap 96/ Protected under Cap 58/ Rare & | Recommendation (Transplant/ Retain/ | Remarks |
|--|---------|------------------|------------|------------|----------------------|--------------|----|-----------|-------|-----------------------|----------------|-----------------------|-----------------------|---------|------------------------------------|---|--|---|
| 100 100 <th>Tag No.</th> <th>(mPD)</th> <th>(Northing</th> <th>, Easting)</th> <th>Scientific Name</th> <th>Chinese Name</th> <th></th> <th>Diameter</th> <th>Crown</th> <th>(Good, Fair, Poor)</th> <th>Fair, Poor)</th> <th>(Good, fair, Poor)</th> <th>(Good, Fair, Poor)</th> <th>Medium/</th> <th>Remarks*</th> <th></th> <th></th> <th></th> | Tag No. | (mPD) | (Northing | , Easting) | Scientific Name | Chinese Name | | Diameter | Crown | (Good, Fair, Poor) | Fair, Poor) | (Good, fair, Poor) | (Good, Fair, Poor) | Medium/ | Remarks* | | | |
| Physic Physic Addet Addet < | A121 | 82.68 | 822782.197 | 837057.963 | Acacia confusa | 台灣相思 | 8 | 191 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; wound at trunk |
| No. Object No. Object No. Object No. No. No. No. | A122 | 91.03 | 822798.331 | 837096.388 | Acacia confusa | 台灣相思 | 8 | 159 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees |
| 1 <th< td=""><td>A123</td><td>90.40</td><td>822797.542</td><td>837096.319</td><td>Acacia confusa</td><td>台灣相思</td><td>8</td><td>95</td><td>2</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Low</td><td>Low survival rate after transplant</td><td>Common Species</td><td>Fell</td><td>Leaning 10 degrees</td></th<> | A123 | 90.40 | 822797.542 | 837096.319 | Acacia confusa | 台灣相思 | 8 | 95 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees |
| No. No. No. No. No. | A124 | 90.43 | 822797.254 | 837097.816 | Acacia confusa | 台灣相思 | 7 | 95 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | wound at branches; wound at branches |
| Image Image <t< td=""><td>A125</td><td>91.41</td><td>822798.829</td><td>837100.363</td><td>Acacia confusa</td><td>台灣相思</td><td>4</td><td>95</td><td>3</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Low</td><td>Low survival rate after transplant</td><td>Common Species</td><td>Fell</td><td>Leaning 20 degrees</td></t<> | A125 | 91.41 | 822798.829 | 837100.363 | Acacia confusa | 台灣相思 | 4 | 95 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees |
| Image Image <t< td=""><td>A126</td><td>92.00</td><td>822799.809</td><td>837101.724</td><td>Acacia confusa</td><td>台灣相思</td><td>8</td><td>191</td><td>4</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Low</td><td>Low survival rate after transplant</td><td>Common Species</td><td>Fell</td><td></td></t<> | A126 | 92.00 | 822799.809 | 837101.724 | Acacia confusa | 台灣相思 | 8 | 191 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | |
| 101 102 <td>A127</td> <td>91.20</td> <td>822798.606</td> <td>837096.396</td> <td>Acacia confusa</td> <td>台灣相思</td> <td>7</td> <td>95</td> <td>2</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Low</td> <td>Low survival rate after transplant</td> <td>Common Species</td> <td>Fell</td> <td>Leaning 5 degrees</td> | A127 | 91.20 | 822798.606 | 837096.396 | Acacia confusa | 台灣相思 | 7 | 95 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 5 degrees |
| 101 107. | A128 | 92.14 | 822800.496 | 837094.071 | Acacia confusa | 台灣相思 | 10 | 360 | 8 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees |
| Internation Normanian | A129 | 91.02 | 822798.089 | 837094.061 | Acacia confusa | 台灣相思 | 10 | 286 | 10 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; co-dominant branches; crack at trunk |
| Number | A130 | 89.71 | 822796.496 | 837094.476 | Acacia confusa | 台灣相思 | 8 | 191 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees |
| No. Norme N | A131 | 88.98 | 822795.405 | 837094.421 | Acacia confusa | 台灣相思 | 6 | 95 | 1 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | |
| NUM Num <td>A132</td> <td>91.78</td> <td>822799.236</td> <td>837089.405</td> <td>Acacia confusa</td> <td>台灣相思</td> <td>5</td> <td>111</td> <td>4</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Low</td> <td>Low survival rate after transplant</td> <td>Common Species</td> <td>Fell</td> <td>Leaning 15 degrees; co-dominant branches; wound at branches</td> | A132 | 91.78 | 822799.236 | 837089.405 | Acacia confusa | 台灣相思 | 5 | 111 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; co-dominant branches; wound at branches |
| NUM Vartic Varti Vartic Varti Vartic Vartic Varti Vartic Vartic Vartic Vartic Var | A133 | 91.41 | 822798.433 | 837088.656 | Acacia confusa | 台灣相思 | 6 | 111 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees |
| NUM NUM <td>A134</td> <td>91.73</td> <td>822799.063</td> <td>837088.108</td> <td>Acacia confusa</td> <td>台灣相思</td> <td>5</td> <td>159</td> <td>6</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Low</td> <td>Low survival rate after transplant</td> <td>Common Species</td> <td>Fell</td> <td>Leaning 20 degrees; co-dominant branches; cross branches</td> | A134 | 91.73 | 822799.063 | 837088.108 | Acacia confusa | 台灣相思 | 5 | 159 | 6 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees; co-dominant branches; cross branches |
| No. No. Normal | A135 | 91.87 | 822799.144 | 837086.750 | Acacia confusa | 台灣相思 | 5 | 207 | 6 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | co-dominant branches |
| NUM Model M | A136 | 90.35 | 822796.760 | 837091.161 | Acacia confusa | 台灣相思 | 12 | 318 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees |
| NH 60/1 6 | A137 | 88.79 | 822794.804 | 837092.304 | Acacia confusa | 台灣相思 | 8 | 127 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees; wound at trunk |
| NAM Original System Normal Market System Open Market System File Deray 1 Segrees Constructions Species File Long 1 Segrees Constructions Species | A138 | 86.26 | 822790.849 | 837091.953 | Acacia confusa | 台灣相思 | 10 | 286 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees; exposed root |
| NMA BURD BURD BURD BURD BURD Construction and instruction. Construction and instruction. Construction and instruction. Prior Pri | A139 | 86.01 | 822790.180 | 837085.028 | Acacia confusa | 台灣相思 | 8 | 159 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees |
| NH 81/1 802/10.00 NM Amele conduct Amele conduc | A140 | 87.41 | 822792.637 | 837084.881 | Acacia confusa | 台灣相思 | 12 | 286 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; co-dominant branches; wound at trunk |
| Ands Ends Ends <th< td=""><td>A141</td><td>87.85</td><td>822793.089</td><td>837085.092</td><td>Acacia confusa</td><td>台灣相思</td><td>6</td><td>159</td><td>4</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Low</td><td>Low survival rate after transplant</td><td>Common Species</td><td>Fell</td><td>Leaning 20 degrees</td></th<> | A141 | 87.85 | 822793.089 | 837085.092 | Acacia confusa | 台灣相思 | 6 | 159 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees |
| And Biolog Biolog Biolog Addes contain Offention S Fail Fail Low Low random randem rangement Common Species Fail Loward Species And 9103 827791545 87781406 Addes contain Offention 10 2257 87781406 Addes contain Offention 10 2257 87781406 Addes contain Offention 10 2257 87781406 Addes contain Offention 10 4 Fail | A142 | 88.16 | 822793.805 | 837086.403 | Acacia confusa | 台灣相思 | 10 | 143 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | |
| NAME 01:00 02700.000 Above onders 0:1 0.0 Dave under register Consort Species Fill Marcing Species Atte 01:00 52777.00 70700.000 Above onders 0:1 1.0 Low under register Cransort Species Fiel Lattery 30 Streptes Fiel Lattery 30 Streptes Fiel Lattery 30 Streptes Lattery 30 Streptes <td>A145</td> <td>92.05</td> <td>822800.376</td> <td>837084.855</td> <td>Acacia confusa</td> <td>台灣相思</td> <td>6</td> <td>175</td> <td>6</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Low</td> <td>Low survival rate after transplant</td> <td>Common Species</td> <td>Fell</td> <td>Leaning 20 degrees; co-dominant branches</td> | A145 | 92.05 | 822800.376 | 837084.855 | Acacia confusa | 台灣相思 | 6 | 175 | 6 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees; co-dominant branches |
| Alte 910 2027.18 87.09 66.00 67.80 92.00 100 205 44 Far Far Far < | A146 | 92.00 | 822799.251 | 837082.780 | Acacia confusa | 台灣相思 | 5 | 191 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 5 degrees |
| Artho 9.93 22272.93 8.2783.043 Symbolic Strategy 100 101 4 Far Far Far Low survival state start strategiste Commo Species Fet Low gale Atts 8.2773.967 8.2791.967 Acade contum (integ) Ed. 20 Far Far Far Low survival state start strategiste Commo Species Fet Lowing Ed. Survival State Atts 6.2791.967 8.2791.967 Acade contum (integ) Ed. 6 111 3 Far Far Low Low survival state start strategiste Commo Species Fet Lowing Ed. Survival State Atts 0.618 2277.848 8709.0304 Moscendonia (integ) Ed. Far Far Low Low survival state start strategiste Commo Species Fet Lowing Ed. Survival State Atts 0.627 8277.848 8709.0304 Moscendonia (integ) Far Far Far Low Low survival state start strategiste Commo Species Fet Lowing Ed. Survival state Low survival state start st | A147 | 91.96 | 822799.195 | 837080.953 | Acacia confusa | 台灣相思 | 5 | 191 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 5 degrees |
| Abb 4279 Model Mo | A148 | 91.03 | 822797.318 | 837081.063 | Acacia confusa | 台灣相思 | 10 | 255 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees; co-dominant branches; cross branches |
| Atti 97.99 92721007 937091759 Accia contast Orfinity 5 Fair Low Low subsidiation Common Species Fail Low rp11 degrees Atti 95.09 92771305 Strates Strates Strates Fair Fair Fair Low subsidiation Common Species Fail Low rp11 degrees Atti 95.05 92771835 Strates Strates Strates Fair Fair Fair Fair Low rule data that transplat Common Species Fail Low rule data that transplat Atti Strates Strates Strates Strates Fair Fair Fair Fair Fair Low rule data that transplat Attis Strates Strates Str | A149 | 89.91 | 822796.279 | 837083.008 | Acacia confusa | 台灣相思 | 10 | 191 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees |
| Att2 85.3 82270.43 83709.257 Accele contrast (nmm 0.00000000000000000000000000000000000 | A150 | 88.58 | 822793.967 | 837081.673 | Acacia confusa | 台灣相思 | 8 | 255 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees |
| Atta 88.18 82270-317 83703-011 Acada contain Original Fill < | A151 | 87.59 | 822792.607 | 837081.755 | Acacia confusa | 台灣相思 | 10 | 191 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees |
| AN56 8277.882 83708.064 Meanange tanania 白信 111 4 Pair | A152 | 86.93 | 822791.305 | 837080.215 | Acacia confusa | 台灣相思 | 10 | 350 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; wound at branches; dead branches |
| AHS5 80.27 82.778.536 87.078.536 Fold Pare Fair Fair Fair Fair Low Low survival rate date transplant Common Species Fel Learing 5 degrees, co-dominant branches, wound at trunk. AHS6 82.7712.548 83.7702.554 Acade condua Chiffle 1 2 5 Fair Low survival rate dater transplant Common Species Fel Learing 15 degrees, co-dominant branches, wound at trunk Atta 80.82 82279.058 83707.849 Acade condua Chiffiell 5 Fair Fair Fair Fair Low survival rate dater transplant Common Species Fel Learing 15 degrees, co-dominant branches, wound at trunk Atta 91.43 | A153 | 86.18 | 822790.431 | 837080.611 | Acacia confusa | 台灣相思 | 6 | 111 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees; co-dominant branches |
| A157 88.82 823701.252 Acacia contusa ①前相思 7 255 5 Fair Fair Fair Low Low survival rate after transplart Common Species Fail Learing 30 degrees A158 67.83 622702.897 83707.055 Acacia contusa ①前相思 12 223 5 Fair | A154 | 80.65 | 822778.892 | 837083.049 | Macaranga tanarius | 血桐 | 6 | 111 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; co-dominant branches |
| Aris B 77.8 B 2772.98 B 7072.945 Acacla contiasa C frifte C 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 7 2 7 4 Fair Fair Low Low survival rate after transplant Common Species Fail Laming 15 degrees: condmit data data data data data data data da | A155 | 80.27 | 822778.536 | 837085.031 | Ficus hispida | 對萊榕 | 6 | 127 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 5 degrees; co-dominant branches |
| Af58 87.7 83707.4619 Acade contusa Ap#le 8 127 3 Pair Pair Fair Low Low survival rate dater transplart Common Species Feil Laming 15 degrees: wound & dacay at branches At60 88.53 822793.98 83707.305 Acade contusa Ap#le 8 10 15 4 Fair Fair Fair Fair Fair Low Low survival rate dater transplart Common Species Feil Leaning 15 degrees: co-domarat branches At61 88.65 822794.068 33707.132 Acade contusa Ap#le 4 Fair Low Low survival rate dater transplart Common Species Feil Leaning 15 degrees: co-domarat branches; wound at branches At64 91.41 82279.128 83707.470 Acade contusa Ap#le 4 Fair Fair Fair Fair Fair Fair Fair Low Low survival rate dater transplart Common Species Feil Leaning 20 degrees cods survival rate dater transplart Common Spec | A157 | 86.82 | 822791.524 | 837070.252 | Acacia confusa | 台灣相思 | 7 | 255 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 30 degrees |
| Afe0 88.3 82273.984 83707.305 Acacia contusa Grift Ha 10 159 4 Pair Pair Pair Low Low survival rate after transplant Common Species Fell Laning 15 degrees Afe1 88.66 822794.08 837074.39 Acacia contusa Grift Ha 8 100 4 Pair Pair Fair Low Low survival rate after transplant Common Species Fell Laning 15 degrees; co-dominant branches; wound at branches Afe1 91.53 822784.08 83707.154 Acacia contusa Grift Ha 5 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Laning 15 degrees; co-dominant branches; wound at branches; Afe6 91.53 82798.048 83707.154 Acacia contusa Grift Ha Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Laning 15 degrees; co-dominant tranches; wound at tranches; wound at tranches; wound at transplant Afe6 91.20 822800.168 87070.080< | A158 | 87.83 | 822792.897 | 837072.945 | Acacia confusa | 台灣相思 | 12 | 223 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; co-dominant branches; wound at trunk |
| Afel 88.66 822794.08 837071.935 Acacia confusa 台前相思 8 180 4 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Laning 15 degrees; coo-domiant branches; wound at branches; Arics 90.92 822797.43 83707.412 Acacia confusa 台湾相思 4 111 5 Fair | A159 | 87.76 | 822792.877 | 837074.619 | Acacia confusa | 台灣相思 | 8 | 127 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; wound & decay at branches |
| A162 90.92 82797.43 83707.4812 Acacia confusa Affille 4 111 5 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees; cross branches A164 91.41 822798.208 837075.47 Acacia confusa Affille 8 191 3 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees; cross branches A164 91.41 822798.128 837075.47 Acacia confusa Affille 8 191 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees; cross branches A166 92.02 822799.108 83707.088 Acacia confusa Affille 4 191 2 Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees; cross branches A166 92.02 822799.108 83707.008 Acacia confusa Affille 8 191 2 Fair Fair Fair | A160 | 88.63 | 822793.984 | 837073.095 | Acacia confusa | 台灣相思 | 10 | 159 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees |
| Af63 91.53 822798.260 837075.470 Acacia confusa 台灣相思 8 191 3 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees A164 91.41 822798.158 83707.154 Acacia confusa 台灣相思 3 95 5 Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees A166 92.07 822799.192 837076.947 Acacia confusa 台灣相思 4 191 2 Fair Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees A167 91.93 82279.045 83707.696 Acacia confusa 台灣相思 8 266 5 Fair Fair Fair Fair Fair Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees, co-dominant trunk; wound at trunk; cross branches A168 92.14 822797.151 837007.5 | A161 | 88.66 | 822794.096 | 837071.935 | Acacia confusa | 台灣相思 | 8 | 180 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; co-dominant branches; wound at branches |
| A164 91.41 82278.158 837077.154 Acacia confusa 6fentile 3 95 5 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees A165 92.07 822799.192 837075.047 Acacia confusa Grifitile 7 207 4 Fair Fair Fair Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees A166 92.02 822800.06 837070.098 Acacia confusa Grifitile 4 191 2 Fair Fair Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees; co-dominant trunk; wound at trunk; coros branches A168 92.14 822800.08 837072.503 Acacia confusa Grifitile 8 26 5 Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A169 9.0.6 822797.123 837072.508< | A162 | 90.92 | 822797.443 | 837074.812 | Acacia confusa | 台灣相思 | 4 | 111 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees; cross branches |
| A16592.0782799.192837076.947Acacia confusa台湾相思72074FairFairFairFairLowLow survival rate after transplantCommon SpeciesFellLeaning 10 degreesA16692.02822800.166837070.096Acacia confusa台灣相思41912FairFairFairLowLow survival rate after transplantCommon SpeciesFellLeaning 25 degreesA16791.93822799.045837070.096Acacia confusa台灣相思81914FairFairFairLowLow survival rate after transplantCommon SpeciesFellLeaning 26 degreesA16892.14822800.08837069.022Acacia confusa台灣相思82865FairFairFairFairLowLow survival rate after transplantCommon SpeciesFellLeaning 10 degreesA16892.14822800.08837069.022Acacia confusa台灣相思82865FairFairFairLowLow survival rate after transplantCommon SpeciesFellLeaning 10 degreesA17090.6822797.11183707.138Acacia confusa台灣相思71112FairFairFairLowLow survival rate after transplantCommon SpeciesFellLeaning 10 degreesA17190.54822797.12383706.655Acacia confusa台灣相思1112FairFairFairLowLow survival rate after transplant <t< td=""><td>A163</td><td>91.53</td><td>822798.260</td><td>837075.470</td><td>Acacia confusa</td><td>台灣相思</td><td>8</td><td>191</td><td>3</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Low</td><td>Low survival rate after transplant</td><td>Common Species</td><td>Fell</td><td></td></t<> | A163 | 91.53 | 822798.260 | 837075.470 | Acacia confusa | 台灣相思 | 8 | 191 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | |
| A16692.02822800.168837073.088Acacia confusa台湾相思41912FairFairFairFairLowLow survial rate after transplantCommon SpeciesFeilLeaning 25 degreesA16791.93822799.045837070.066Acacia confusa台湾相思81914FairFairFairLowLow survial rate after transplantCommon SpeciesFeilLeaning 25 degrees; co-domiant trunk; wound at t | A164 | 91.41 | 822798.158 | 837077.154 | Acacia confusa | 台灣相思 | 3 | 95 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees |
| A167 91.93 82279.045 83707.0696 Acacia confusa 台湾相思 8 191 4 Fair Fair Fair Low Low survival rate after transplant Common Species Feil Leaning 25 degrees; co-dominant trunk; wound at trunk; w | A165 | 92.07 | 822799.192 | 837076.947 | Acacia confusa | 台灣相思 | 7 | 207 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees |
| A188 92.14 822800.08 837069.022 Acacia confusa 台湾相思 8 286 5 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 20 degrees; wound at trunk A169 90.96 822797.511 837062.03 Acacia confusa 台湾相思 6 135 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees; wound at trunk A170 90.26 822797.513 837067.18 Acacia confusa 台湾相思 7 111 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees; oc-dominant trank A170 90.54 822797.123 837067.18 Acacia confusa 台湾相思 159 Fair F | A166 | 92.02 | 822800.166 | 837073.008 | Acacia confusa | 台灣相思 | 4 | 191 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 25 degrees |
| A169 90.96 822797.511 837072.503 Acacia confusa 合清相 6 135 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A170 90.26 822796.506 837069.145 Acacia confusa 台湾相思 7 111 2 Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A171 90.54 822797.123 837067.183 Acacia confusa 台湾相思 159 5 Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees; co-dominant branches A171 90.54 822797.123 837067.76 Malous paniculatus 台灣相 159 5 Fair Fair< | A167 | 91.93 | 822799.045 | 837070.696 | Acacia confusa | 台灣相思 | 8 | 191 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 25 degrees; co-dominant trunk; wound at trunk; cross branches |
| A170 90.26 832796.506 837069.145 Acacia confusa 合清相思 7 111 2 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees A171 90.54 822797.123 837067.138 Acacia confusa 台湾相思 159 5 Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees; co-dominant branches A172 90.89 822797.139 837066.756 Acacia confusa 台湾相思 10 255 Fair Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees; co-dominant branches A172 90.89 822797.439 837066.756 Acacia confusa 台湾相 4 95 2 Fair Fair Fair Fair Fair Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 10 degrees; co-dominant branches A174 87.98 822791.050 837066.14 <td< td=""><td>A168</td><td>92.14</td><td>822800.008</td><td>837069.022</td><td>Acacia confusa</td><td>台灣相思</td><td>8</td><td>286</td><td>5</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Low</td><td>Low survival rate after transplant</td><td>Common Species</td><td>Fell</td><td>Leaning 20 degrees; wound at trunk</td></td<> | A168 | 92.14 | 822800.008 | 837069.022 | Acacia confusa | 台灣相思 | 8 | 286 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees; wound at trunk |
| A171 90.54 822797.123 837067.138 Acacia confusa 合用相思 4 159 5 Fair Fair Fair Fair Low survival rate after transplant Common Species Feil Leaning 10 degrees; co-dominant branches A172 90.89 822797.439 837066.755 Acacia confusa 合册相思 10 255 Fair Fair Fair Fair Low survival rate after transplant Common Species Feil Leaning 10 degrees; co-dominant branches A173 86.39 822797.415 837067.776 Mallotus paniculatus 白根 4 95 2 Fair Fair Fair Fair Fair Low survival rate after transplant Common Species Feil Leaning 20 degrees; co-dominant branches; wound at trunk A173 86.39 822790.295 837066.736 Mallotus paniculatus 白根 95 2 Fair Low survival rate after transplant Common Species Feil Leaning 20 degrees; co-dominant branches; wound at trunk A175 8 | A169 | 90.96 | 822797.511 | 837072.503 | Acacia confusa | 台灣相思 | 6 | 135 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees |
| Arr2 Barrow Acade confusa 合併相 File | A170 | 90.26 | 822796.506 | 837069.145 | Acacia confusa | 台灣相思 | 7 | 111 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees |
| A173 88.59 822794.15 837067.76 Mallotus paniculatus 白根 4 95 2 Fair Fair Fair Low survival rate after transplant Common Species Fell Leaning 20 degrees; co-dominant branches; wound at trunk A174 87.93 822793.095 837088.134 Mallotus paniculatus 白根 7 111 2 Fair Fair Fair Low survival rate after transplant Common Species Fell Leaning 20 degrees; co-dominant branches; wound at trunk A175 86.34 822790.209 837066.059 Acacia confusa Grift Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 40 degrees; cross branches; wound at trunk A175 86.34 822790.209 837066.059 Acacia confusa Grift Fair Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 40 degrees; cross branches; exposed root A175 86.34 822790.209 837066.059 Acacia confusa Grift Fair Fair Fair Fair Low Low survival rate after transplant <td>A171</td> <td>90.54</td> <td>822797.123</td> <td>837067.138</td> <td>Acacia confusa</td> <td>台灣相思</td> <td>4</td> <td>159</td> <td>5</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Low</td> <td>Low survival rate after transplant</td> <td>Common Species</td> <td>Fell</td> <td>Leaning 10 degrees; co-dominant branches</td> | A171 | 90.54 | 822797.123 | 837067.138 | Acacia confusa | 台灣相思 | 4 | 159 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; co-dominant branches |
| A173 88.59 822794.115 837067.776 Mallotus paniculatus 白根 4 95 2 Fair Fair Fair Low survival rate after transplant Common Species Fell Leaning 20 degrees; co-dominant branches; wound at trunk A174 87.93 822793.095 837088.134 Mallotus paniculatus 白根 7 111 2 Fair Fair Fair Low survival rate after transplant Common Species Fell Leaning 20 degrees; co-dominant branches; wound at trunk A175 86.34 822790.209 837066.059 Acacia confusa 台灣相思 6 159 8 Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 40 degrees; cross branches; exposed root A175 86.34 822790.209 837066.059 Acacia confusa 台灣相思 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 40 degrees; cross branches; exposed root | A172 | 90.89 | 822797.439 | 837066.655 | Acacia confusa | 台灣相思 | 10 | 255 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees |
| A175 86.34 822790.209 837066.059 Acacia confusa 台灣相思 6 159 8 Fair Fair Fair Fair Common Species Fell Leaning 40 degrees; cross branches; exposed root | A173 | 88.59 | 822794.115 | 837067.776 | Mallotus paniculatus | 白楸 | 4 | 95 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees; co-dominant branches; wound at trunk |
| A175 86.34 822790.209 837066.059 Acacia confusa 台灣相思 6 159 8 Fair Fair Fair Low Low survival rate after transplant Common Species Fell Leaning 40 degrees; exposed root | A174 | 87.93 | 822793.095 | 837068.134 | Mallotus paniculatus | 白楸 | 7 | 111 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 5 degrees |
| | A175 | 86.34 | 822790.209 | 837066.059 | | | 6 | 159 | 8 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | | Fell | Leaning 40 degrees; cross branches; exposed root |
| | A176 | 86.59 | 822790.722 | 837065.486 | Bridelia tomentosa | 土蜜樹 | 6 | 111 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | | Fell | Leaning 10 degrees; Abrupt trunk |

Tree Assessment Schedule

Date of Tree Survey : 16 February 2023

| Tree | Level at Base | Coord | | Species | | | Tree Size | | Amenity value | Form (Good, | Health condition | Structural | | Suitability for transplanting | Conservation status** (OVT/ Common Species/ Scheduled under Cap 96/ Protected under Cap 58/ Rare & | Recommendation (Transplant/ Retain/ | Remarks |
|--------------|------------------|--------------------------|--------------------------|--|----------------|--------------------------|---------------------------|-----------------------------------|-----------------------|----------------|-----------------------|-----------------------|-------------------------|--|---|--|---|
| Tag No. | (mPD) | (Northing, | , Easting) | Scientific Name | Chinese Name | Overall Height (m) | Trunk Diameter (mm) | Average Crown Spread (m) | (Good, Fair, Poor) | Fair, Poor) | (Good, fair, Poor) | (Good, Fair, Poor) | High/ Medium/ Low | Remarks* | Precious Plants/ IUCN Red List of Threatened Species/ | Fell) | |
| A177 | 86.27 | 822790.511 | 837063.549 | Acacia confusa | 台灣相思 | 7 | 191 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 5 degrees |
| A178 | 86.57 | 822790.725 | 837063.378 | Sterculia lanceolata | 假蘋婆 | 6 | 127 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | |
| A179 | 85.89 | 822789.629 | 837062.862 | Sterculia lanceolata | 假蘋婆 | 5 | 95 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | |
| A180 | 85.77 | 822789.424 | 837062.321 | Acacia confusa | 台灣相思 | 4 | 111 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees |
| A181 | 86.01 | 822789.509 | 837060.977 | Acacia confusa | 台灣相思 | 5 | 191 | 6 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; co-dominant branches |
| A182 | 86.86 | 822791.342 | 837061.737 | Mallotus paniculatus | 白楸 | 5 | 95 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 5 degrees; crack at branches |
| A183 | 87.21 | 822791.979 | 837062.090 | Acacia confusa | 台灣相思 | 7 | 191 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 5 degrees; co-dominant branches; cross branches |
| A184 | 88.37 | 822793.578 | 837062.209 | Acacia confusa | 台灣相思 | 6 | 159 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; dead branches |
| A185 | 88.47 | 822793.631 | 837062.523 | Acacia confusa | 台灣相思 | 6 | 191 | 4 | Poor | Poor | Poor | Poor | Low | Low survival rate after transplant | Common Species | Fell | Leaning 25 degrees; uproot; exposed root |
| A186 | 88.46 | 822794.035 | 837064.635 | Acacia confusa | 台灣相思 | 6 | 175 | 6 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees |
| A187 | 88.39 | 822793.908 | 837065.440 | Sterculia lanceolata | 假蘋婆 | 6 | 111 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Landar II. Januar |
| A188 | 89.11 | 822794.809 | 837065.413 | Acacia confusa | 台灣相思 | 6 | 127 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees |
| A189 | 89.90 | 822796.095 | 837063.612 | Acacia confusa | 台灣相思 | 5 | 95 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 30 degrees |
| A190 | 90.96 | 822798.728 | 837065.027 | Mallotus paniculatus | 白楸 | 4 | 127 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Crack; split at branches |
| A191 | 91.74 | 822798.364 | 837059.075 | Ficus hispida | 對萊榕 | 4 | 111 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | multi-branches |
| A192 | 90.11 | 822796.232 | 837060.969 | Acacia confusa | 台灣相思 | 6 | 95 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 30 degrees |
| A193 | 86.19 | 822789.656 | 837056.051 | Acacia confusa | 台灣相思 | 3 | 111 | 4 | Poor | Poor | Poor | Poor | Low | Low survival rate after transplant | Common Species | Fell | Leaning 25 degrees; broken trunk |
| A194 | 86.12 | 822789.554 | 837054.456 | Acacia confusa | 台灣相思 | 3 | 159 | 6 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 35 degrees |
| A195 | 87.88 | 822792.524 | 837054.328 | Acacia confusa | 台灣相思 | 8 | 223 | 5 | Poor | Poor | Poor | Poor | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees; uproot; exposed root |
| A196 | 83.56 | 822783.355 | 837056.017 | Acacia confusa | 台灣相思 | 10 | 191 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees |
| A197 | 81.58 | 822779.092 | 837055.141 | Acacia confusa | 台灣相思 | 12 | 255 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; co-dominant branches |
| A198 | 80.77 | 822778.548 | 837054.396 | Acacia confusa | 台灣相思 | 10 | 191 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; wound and decay at branches |
| A199 | 85.53 | 822786.676 | 837050.836 | Acacia confusa | 台灣相思 | 4 | 159 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 30 degrees; cavity with decay at trunk Leaning 10degrees |
| A200 | 85.58 79.63 | 822786.706 | 837049.844 837053.979 | Acacia confusa | 台灣相思 | 6 | 255 | 6 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning Todegrees Leaning 35 degrees; abrupt trunk; co-dominant branches |
| A201 A202 | 79.63 81.54 | 822767.395 822779.482 | 837053.979 | Acacia confusa Acacia confusa | 台灣相思 台灣相思 | 10 | 573 223 | 12 | Fair Fair | Fair Fair | Fair Fair | Fair Fair | Low Low | Low survival rate after transplant | Common Species Common Species | Fell | Leaning 35 degrees, abright turn, co-dominant branches |
| A202 A204 | | | | | | | | 4 | | | Fair | | | | | Fell | co-dominant branches |
| A204 A205 | 83.29 83.87 | 822782.930 822783.553 | 837046.752 837048.792 | Sterculia lanceolata Acacia confusa | 假蘋婆 台灣相思 | 5 10 | 111 350 | 8 | Fair Fair | Fair Fair | Fair | Fair Fair | Low Low | Low survival rate after transplant | Common Species Common Species | Fell | Leaning 30 degrees: co-dominant branches: cross branches |
| A205 | 84.57 | 822785.029 | 837049.820 | | 台灣相思 | 10 | 223 | 3 | - | | | | | Low survival rate after transplant | | Fell | Leaning 20 degrees; co-dominant branches |
| A200 | 85.34 | 822786.298 | 837046.213 | Acacia confusa Sterculia lanceolata | 但蘋婆 | 4 | 143 | 5 | Fair Fair | Fair Fair | Fair Fair | Fair Fair | Low Low | Low survival rate after transplant | Common Species Common Species | Fell | co-dominant branches |
| A207 | 84.63 | 822785.022 | 837044.617 | Acacia confusa | 台灣相思 | 8 | 223 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; co-dominant branches |
| A200 | 84.53 | 822784.513 | 837043.461 | Acacia confusa | 台灣相思 | 6 | 270 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees; co-dominant trunk |
| A203 | 83.51 | 822783.009 | 837041.433 | Acacia confusa | 台灣相思 | 8 | 191 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees |
| A211 | 83.54 | 822783.193 | 837039.880 | Acacia confusa | 台灣相思 | 8 | 191 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees |
| A211 | 83.34 | 822782.548 | 837038.155 | Acacia confusa | 台灣相思 | 6 | 159 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees |
| A212 A213 | 81.24 | 822778.766 | 837044.220 | Sterculia lanceolata | 假蘋婆 | 4 | 127 | 3 | Poor | Poor | Poor | Poor | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees; co-dominant branches; uproot and exposed root |
| A214 | 79.96 | 822776.728 | 837036.951 | Broussonetia papyrifera | 構樹 | 6 | 95 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees |
| A215 | 80.69 | 822777.951 | 837035.984 | Ficus hispida | 對萊榕 | 5 | 95 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; co-dominant trunk; co-dominant branches |
| A216 | 82.43 | 822781.087 | 837036.136 | Acacia confusa | 台灣相思 | 8 | 255 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; co-dominant branches; cross branches |
| A217 | 84.57 | 822783.910 | 837036.345 | Acacia confusa | 台灣相思 | 4 | 286 | 6 | Poor | Poor | Poor | Poor | Low | Low survival rate after transplant | Common Species | Fell | Leaning 30 degrees; cross branches; uproot; exposed root |
| A219 | 84.32 | 822784.155 | 837033.439 | Acacia confusa | 台灣相思 | 10 | 271 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Retain | |
| A215 | 86.21 | 822789.324 | 837050.589 | Acacia confusa | 台灣相思 | 12 | 286 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees |
| A226 | 87.36 | 822791.816 | 837051.760 | Acacia confusa | 台灣相思 | 7 | 159 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees |
| A220 A227 | 87.38 | 822791.903 | 837052.239 | Acacia confusa | 台灣相思 | 4 | 135 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 5 degrees; co-dominant trunk |
| A227 | 87.94 | 822791.903 | 837052.239 | Acacia confusa | 台灣相思 | 4 | 159 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 5 degrees; dead branches |
| A228 A229 | 88.15 | 822792.973 | 837050.640 | Acacia confusa | 台灣相思 | 7 | 207 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees |
| A229 A230 | 88.61 | 822793.514 | 837049.532 | Acacia confusa | 台灣相思 | 6 | 127 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees; co-dominant trunk |
| A230 A231 | 89.45 | 822795.151 | 837049.532 | Acacia confusa Acacia confusa | 台灣相思 | 7 | 95 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; abrupt trunk |
| A231 A232 | 90.22 | 822795.131 | 837052.853 | Sterculia lanceolata | 百两相忠 假蘋婆 | 4 | 95 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 5 degrees |
| A232 A233 | 90.22 | 822790.438 | 837052.855 | Acacia confusa | 100 頻發 台灣相思 | 4 | 111 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 30 degrees |
| A233 A234 | 90.04 89.91 | 822795.430 | 837053.884 | Acacia confusa | 台湾相思 | 8 | 159 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees |
| A234 A235 | 89.42 | 822795.430 | 837054.959 | Acacia confusa | 台湾相思 | o 10 | 414 | 6 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | co-dominant branches |
| A235 A236 | 89.42 90.33 | 822794.804 822796.287 | 837047.730 | Acacia confusa Acacia confusa | 台湾相思 | 8 | 255 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant Low survival rate after transplant | Common Species | Fell | co-dominant branches |
| 1230 | 30.33 | 322130.201 | 337047.070 | Acacia coniusa | 口何相心 | 0 | 200 | | raii | raii | raii | raii | LOW | Low survivarrate aner trafispiant | Common Species | Feil | |

Tree Assessment Schedule

Date of Tree Survey : 16 February 2023

| Tree | Level at Base | Coord | | Species | | | Tree Size | | Amenity value | Form (Good, | Health condition | Structural | : | Suitability for transplanting | Conservation status** (OVT/ Common Species/ Scheduled under Cap 96/ Protected under Cap 58/ Rare & | Recommendation (Transplant/ Retain/ | Remarks |
|--------------|------------------|--------------------------|--------------------------|----------------------|--------------|--------------------------|---------------------------|-----------------------------------|-----------------------|----------------|-----------------------|-----------------------|-------------------------|------------------------------------|---|--|---|
| Tag No. | (mPD) | (Northing | | Scientific Name | Chinese Name | Overall Height (m) | Trunk Diameter (mm) | Average Crown Spread (m) | (Good, Fair, Poor) | Fair, Poor) | (Good, fair, Poor) | (Good, Fair, Poor) | High/ Medium/ Low | Remarks* | Precious Plants/ IUCN Red List of Threatened Species/ | Fell) | |
| A237 | 90.96 | 822797.395 | 837048.116 | Acacia confusa | 台灣相思 | 8 | 191 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | co-dominant branches |
| A238 | 91.33 | 822798.256 | 837046.939 | Acacia confusa | 台灣相思 | 8 | 223 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | dead branches |
| A239 | 91.08 | 822797.401 | 837044.675 | Acacia confusa | 台灣相思 | 4 | 127 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 40 degrees |
| A241 | 89.02 | 822793.986 | 837053.290 | Acacia confusa | 台灣相思 | 10 | 255 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees |
| A242 | 89.43 | 822794.410 | 837042.716 | Mallotus paniculatus | 白楸 | 6 | 223 | 6 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees; cavity at trunk |
| A244 | 86.19 | 822789.230 | 837043.026 | Acacia confusa | 台灣相思 | 8 | 286 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | co-dominant trunk; v-shaped; wound at trunk |
| A249 | 89.81 | 822794.374 | 837033.943 | Acacia confusa | 台灣相思 | 10 | 223 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Retain | dead branches |
| A250 | 87.40 | 822791.741 | 837033.925 | Acacia confusa | 台灣相思 | 6 | 127 | 1 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Retain | dead branches; wound at branches |
| A251 | 92.38 | 822799.044 | 837034.970 | Acacia confusa | 台灣相思 | 6 | 334 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; co-dominant branches |
| A542 | 88.27 | 822802.806 | 837120.255 | Acacia confusa | 台灣相思 | 4 | 111 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; cavity at branches |
| A543 | 88.95 | 822803.930 | 837119.578 | Acacia confusa | 台灣相思 | 7 | 143 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees |
| A544 | 89.35 | 822804.776 | 837119.087 | Acacia confusa | 台灣相思 | 6 | 111 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees |
| A545 | 89.67 | 822805.529 | 837119.274 | Acacia confusa | 台灣相思 | 8 | 239 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning30 degrees; co-dominant branches; exposed root |
| A546 | 89.46 | 822804.061 | 837118.761 | Acacia confusa | 台灣相思 | 8 | 271 | 5 | Fair | Fair | Fair | Poor | Low | Low survival rate after transplant | Common Species | Fell | Leaning 40 degrees |
| A547 | 89.78 | 822803.971 | 837117.965 | Acacia confusa | 台灣相思 | 10 | 191 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees |
| A548 | 88.98 | 822801.596 | 837118.443 | Acacia confusa | 台灣相思 | 10 | 255 | 6 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 30 degrees |
| A550 | 89.50 | 822800.026 | 837116.165 | Acacia confusa | 台灣相思 | 6 | 95 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | |
| A551 | 90.11 | 822808.361 | 837118.377 | Acacia confusa | 台灣相思 | 4 | 111 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | |
| A552 | 90.39 | 822811.910 | 837116.524 | Mallotus paniculatus | 白楸 | 4 | 127 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; exposed root |
| A556 | 90.00 | 822813.704 | 837116.655 | Acacia confusa | 台灣相思 | 7 | 223 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; dead branches |
| A558 | 90.99 | 822813.378 | 837114.527 | Acacia confusa | 台灣相思 | 10 | 405 | 8 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; co-dominant trunk; cavity at trunk; cross branches |
| A559 | 92.04 | 822811.744 | 837112.781 | Acacia confusa | 台灣相思 | 8 | 540 | 10 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees; co-dominant trunk; co-dominant branches; wound at branches; |
| A560 | 91.70 | 822814.715 | 837112.066 | Acacia confusa | 台灣相思 | 10 | 630 | 12 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | cross branches |
| A562 | 92.34 | 822815.606 | 837106.607 | Livistona chinensis | 蒲葵 | 2 | 223 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | |
| A563 | 92.31 | 822817.351 | 837105.061 | Livistona chinensis | 蒲葵 | 2 | 223 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | |
| A566 | 93.21 | 822818.920 | 837094.672 | Livistona chinensis | 蒲葵 | 2 | 223 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Transplant | |
| A568 | 92.01 | 822824.107 | 837097.392 | Mallotus paniculatus | 白楸 | 5 | 286 | 6 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 5 degrees; co-dominant branches |
| A569 | 91.31 | 822822.723 | 837100.212 | Mallotus paniculatus | 白楸 | 5 | 239 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 30 degrees |
| A571 | 90.47 | 822820.864 | 837104.645 | Microcos nervosa | 布渣葉 | 4 | 111 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees |
| A572 | 90.39 | 822820.448 | 837106.439 | Acacia confusa | 台灣相思 | 7 | 207 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; co-dominant branches |
| A573 | 90.39 | 822819.434 | 837108.518 | Aporusa dioica | 銀柴 | 5 | 143 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | co-dominant branches |
| A574 | 90.83 | 822818.462 | 837109.210 | Acacia confusa | 台灣相思 | 8 | 382 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; co-dominant branches; wound at branches |
| A576 | 89.01 | 822817.252 | 837115.498 | Mallotus paniculatus | 白楸 | 6 | 159 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; co-dominant branches |
| A577 | 78.17 | 822771.259 | 837095.241 | Ficus hispida | 對葉榕 | 7 | 315 | 6 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; co-dominant trunk; co-dominant branches |
| A578 | 79.57 | 822771.494 | 837090.390 | Ficus hispida | 對萊榕 | 5 | 111 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; multi-branches |
| A579 | 79.72 | 822771.628 | 837082.522 | Mallotus paniculatus | 白楸 | 6 | 111 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees |
| A580 | 78.70 | 822767.140 | 837077.722 | Macaranga tanarius | 血桐 | 7 | 175 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees |
| A582 | 79.49 | 822767.965 | 837071.924 | Mallotus paniculatus | 白楸 | 5 | 143 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees |
| A583 | 79.32 | 822767.109 | 837071.822 | Mallotus paniculatus | 白楸 | 6 | 127 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees |
| A584 | 78.21 | 822765.451 | 837071.524 | Celtis sinensis | 朴樹 | 5 | 127 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees |
| A585 | 78.40 | 822764.874 | 837069.384 | Syzygium jambos | 蒲桃 | 6 | 191 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees |
| A586 | 78.66 | 822764.626 | 837067.526 | Bauhinia variegata | 宫粉羊蹄甲 | 10 | 540 | 8 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees; co-dominant trunk; v-shaped |
| A616 | 77.19 | 822765.061 822765.004 | 837077.484 837078.884 | Ficus hispida | 對莱格 | 6 | 127 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees Leaning 10 degrees; multi-trunks |
| A617 | 76.87 | 822765.004 822764.139 | | Microcos nervosa | 布渣葉 | 6 | | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees |
| A618 | | | 837079.154 | Microcos nervosa | 布渣葉 | - | 95 | _ | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees; co-dominant branches; cavity and decay at trunk base |
| A619 A620 | 77.22 77.76 | 822766.411 822767.960 | 837083.628 837086.053 | Mallotus paniculatus | 白楸 | 5 | 223 111 | 6 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; co-dominant branches |
| | 77.93 | 822767.960 822769.430 | 837086.053 837089.997 | Microcos nervosa | 布渣葉 | 5 | | | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 10 degrees; co-dominant branches Leaning 15 degrees; co-dominant branches |
| A621 | | | | Bridelia tomentosa | 土蜜樹 | - | 95 | 2 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Loaning to degrees, co-dominant branches |
| E1 | 92.61 | 822820.332 | 837095.239 | Livistona chinensis | 蒲葵 | 5 | 223 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Transplant | |
| E2 | 92.34 | 822815.715 | 837102.146 | Livistona chinensis | 蒲葵 | - | 207 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Transplant | Leaning 20 degrees; abrupt trunk: wound at trunk: wound at branches: cross branches: |
| E3 | 92.18 | 822810.872 | 837103.658 | Acacia confusa | 台灣相思 | 7 | 302 | 8 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | broken branches; exposed root Leaning 26 degrees; abrupt trunk; ; co-dominant branches; abnormal bark crack at |
| E5 | 92.03 | 822810.043 | 837106.772 | Acacia confusa | 台灣相思 | 4 | 350 | 6 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Learning 20 degrees, aurupt truink, , cordonninant triancines, aurionniar bank crack at trunk & branches |

Tree Assessment Schedule

Date of Tree Survey : 16 February 2023

Surveyed by : Mr Ng Sze Yuen, Jason

| Tree | Level at Base | Coord | | Species | | | Tree Size | | Amenity value | Form (Good, | Health condition | Structural condition | | Suitability for transplanting | Conservation status** (OVT/ Common Species/ Scheduled under Cap 96/ Protected under Cap 58/ Rare & | Recommendation (Transplant/ Retain/ | Remarks |
|---------|------------------|------------|------------|---------------------|--------------|--------------------------|---------------------------|-----------------------------------|-----------------------|----------------|-----------------------|-----------------------|-------------------------|------------------------------------|---|--|---|
| Tag No. | (mPD) | (Northing, | , Easting) | Scientific Name | Chinese Name | Overall Height (m) | Trunk Diameter (mm) | Average Crown Spread (m) | (Good, Fair, Poor) | Fair, Poor) | (Good, fair, Poor) | (Good, Fair, Poor) | High/ Medium/ Low | Remarks* | Precious Plants/ IUCN Red List of Threatened Species/ | Fell) | reinu ka |
| E6 | 92.19 | 822813.102 | 837106.246 | Livistona chinensis | 蒲葵 | 3 | 286 | 3 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Transplant | |
| E7 | 92.21 | 822807.928 | 837106.115 | Acacia confusa | 台灣相思 | 6 | 223 | 6 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 25 degrees; abrupt trunk; ; co-dominant branches; wound and decay at trunk; exposed root |
| E9 | 92.18 | 822806.134 | 837107.058 | Acacia confusa | 台灣相思 | 6 | 350 | 8 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees; co-dominant branches; cross branches; exposed root |
| E10 | 92.19 | 822805.253 | 837105.674 | Acacia confusa | 台灣相思 | 7 | 207 | 5 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees; abrupt trunk; cavity at trunk; exposed root |
| E11 | 92.18 | 822803.837 | 837103.947 | Acacia confusa | 台灣相思 | 4 | 255 | 6 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 20 degrees; abrupt trunk; ; co-dominant branches; cavity at branches |
| E12 | 92.20 | 822804.424 | 837102.744 | Acacia confusa | 台灣相思 | 7 | 414 | 4 | Fair | Fair | Fair | Fair | Low | Low survival rate after transplant | Common Species | Fell | Leaning 15 degrees; dead stub; exposed root |
| E13 | 92.31 | 822805.017 | 837085.855 | Ficus microcarpa | 細葉榕 | 12 | 891 | 6 | Poor | Poor | Poor | Poor | Low | Low survival rate after transplant | Common Species | Retain | Leaning 10 degrees; multi-branches; co-dominant branches; dead stub; fungal fruting bodies; exposed root |
| E14 | 92.36 | 822807.873 | 837079.658 | Ficus microcarpa | 細葉榕 | 5 | 796 | 1 | Poor | Poor | Poor | Poor | Low | Low survival rate after transplant | Common Species | Retain | Leaning 15 degrees; abnormal bark crack; pruning wound; decay; exposed root; decay root |
| E15 | 92.45 | 822807.811 | 837075.688 | Ficus microcarpa | 細葉榕 | 14 | 828 | 8 | Poor | Poor | Poor | Poor | Low | Low survival rate after transplant | Common Species | Retain | Leaning 20 degrees; ; co-dominant branches; pruning wound; wound & decay at branches; exposed root |
| E16 | 92.79 | 822807.900 | 837071.562 | Ficus microcarpa | 細葉榕 | 14 | 923 | 8 | Poor | Poor | Poor | Poor | Low | Low survival rate after transplant | Common Species | Retain | Leaning 20 degrees; co-dominant branches;wound at branches exposed root; decay at root |
| E24 | 92.78 | 822823.062 | 837086.365 | Ficus microcarpa | 細葉榕 | 10 | 700 | 8 | Poor | Poor | Poor | Poor | Low | Low survival rate after transplant | Common Species | Retain | Leaning 10 degrees; co-dominant branches; decay and wound at branches; cross branches; exposed root |
| E25 | 92.66 | 822818.664 | 837087.074 | Ficus microcarpa | 細葉榕 | 10 | 796 | 8 | Poor | Poor | Poor | Poor | Low | Low survival rate after transplant | Common Species | Retain | Leaning 20 degrees |
| E26 | 92.59 | 822814.954 | 837087.633 | Ficus microcarpa | 細葉榕 | 8 | 573 | 4 | Poor | Poor | Poor | Poor | Low | Low survival rate after transplant | Common Species | Retain | Leaning 10 degrees; co-dominant branches; cavity with decay at branches; dead stub; exposed root |
| E27 | 92.45 | 822811.319 | 837087.482 | Ficus microcarpa | 細葉榕 | 8 | 462 | 4 | Poor | Poor | Poor | Poor | Low | Low survival rate after transplant | Common Species | Retain | Leaning 10 degrees; dead stub; wound at trunk; decay at branches; exposed root; decay at root |
| E68 | 92.47 | 822804.422 | 837051.930 | Ficus microcarpa | 細葉榕 | 18 | 1019 | 12 | Poor | Poor | Poor | Poor | Low | Low survival rate after transplant | Common Species | Retain | Leaning 15degrees; co-dominant branches; wound at trunk; exposed root |

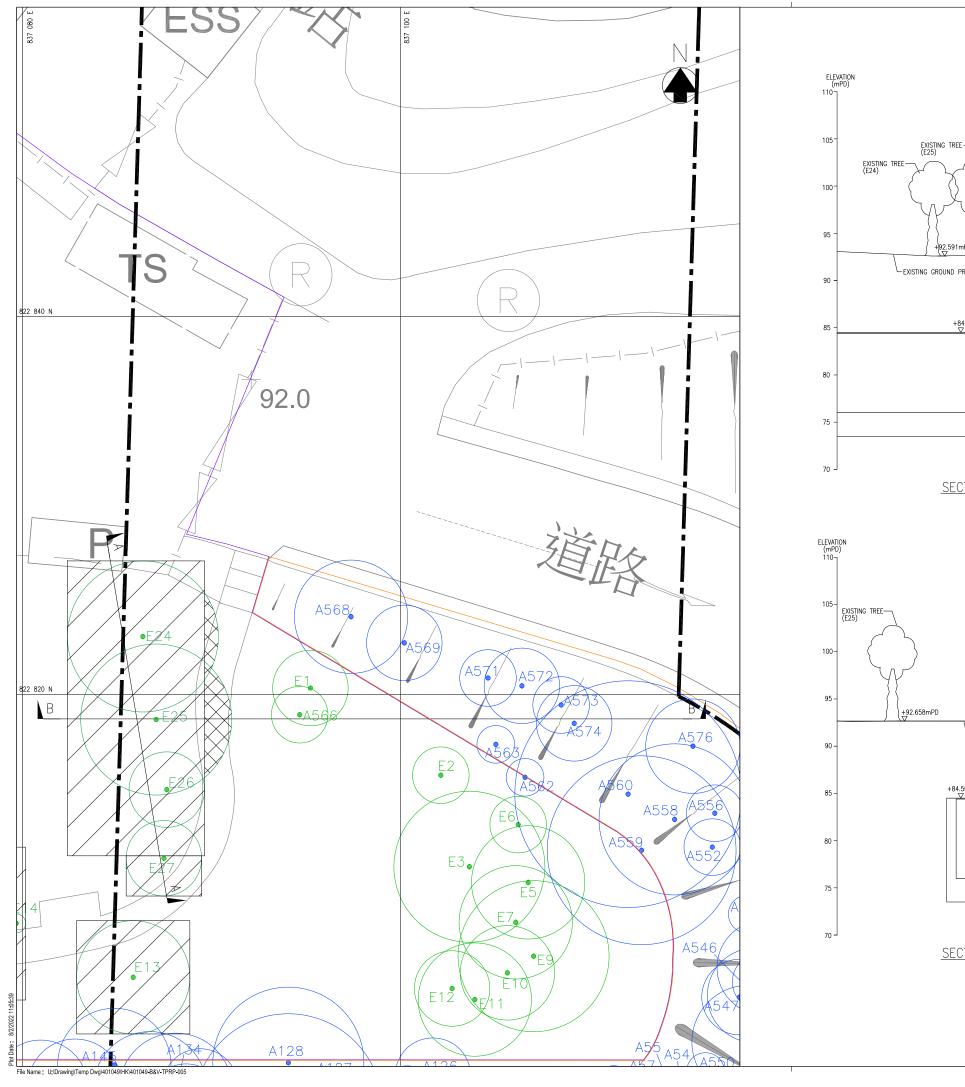
* Assessment shall take into account conditions of an individual tree at the time of survey (including health, structure, age and root conditions), site conditions (including topography and accessibility), and intrinsic characters of tree species (survival rate after transplanting).

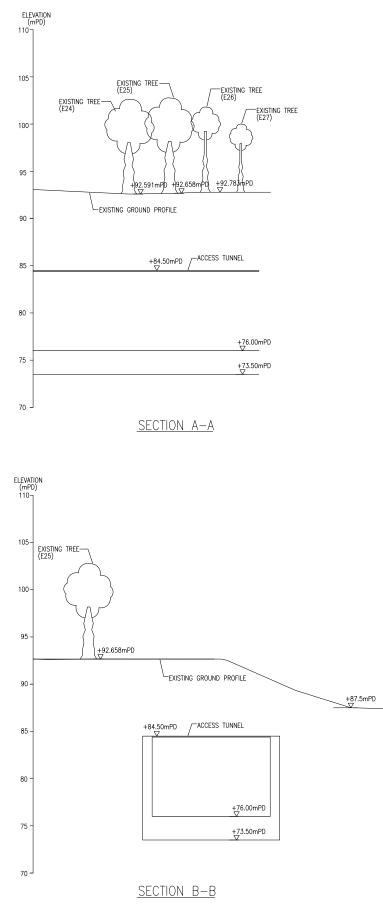
* Conservation status (indicates rarity and protection status under relevant ordinances of a species in Hong Kong. References such as Rare and Precious Plants of Hong Kong², the IUCN Red List of Threatened Species³ and the Forests and Countryside Ordinances (Cap. 96) may be used.)

² Agriculture, Fisheries and Conservation Department, Rare and Precious Plants of Hong Kong (Hong Kong: AFCD, the Government of the Hong Kong Special Administrative Region, 2003).

³ IUCN Red List of Threatened Species. The latest version can be accessed at www.iucnredlist.org.

Appendix G - Typical Cross Section of Retaining Tree





| Dete 04/21 04/21 04/21 04/ Approved Agreement No. CE 15/2018 (WS) Project Title RELOCATION OF DIAMOND HILL FRESH WATER AND SALT WATER SERVICE RESERVOIRS TO CAVERNS Drowing Title TYPICAL CROSS SECTION OF TREES RETAINED | | © Copyrig | ht by Binnies Hon | g Kong Limited | | | | | | | | |
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| 水務署 Water Supplies | Drawing | No. | | | Revision | | | | | | | |
| Water Supplies | Drawing 4 | No. | B&V/TPRF | 9/005 | | | | | | | | |
| Department | Drawing 4 | No. | B&V/TPRF A1 1 : 20 A3 1 : 40 | 9/005 0 | Revision — | | | | | | | |
| | Drawing 4 | No. | B&V/TPRF A1 1 : 20 A3 1 : 40 | 2/005 1 <u>0</u> 務 署 | Revision — | | | | | | | |
| | Drawing 4 | No. | 'B&V/TPRF <u>A3 1 : 2</u> | 2/005 8 務 署 | Revision — | | | | | | | |
| Colonies | Drawing 4 | No. 01049/ | B&V/TPRF A31:20 7K Water Dep | ?/005 <u>응</u> 務 퇕 · Suppl artmer | Revision — | | | | | | | |

Appendix H – Method Statement for Tree Preservation and Protection

METHOD STATEMENT FOR TREE PRESERVATION AND PROTECTION

1. Introduction

A specialist landscape contractor from the "List of Approved Suppliers of Materials and Specialist Contractors for Public Works - Landscaping: Class I - General Landscape Work" shall be engaged to carry out the works relating to trees that shall include but not be limited to tree protection, tree surgery work, control of pests and diseases and transplanting.

The contractor shall assign tree protection issues to a suitably qualified and experienced full-time member of the site staff This member of staff shall be responsible for monitoring and reporting on all tree related issues. All tree survey work shall be supervised by a qualified Arborist or Registered Landscape Architect.

To protect the trees to be retained, the Contractor shall ensure the following for the whole duration of the Contract:

- No unnecessary intrusions such as passage or parking into tree protection areas of existing trees are to be made;
- no access routes will be allowed to pass through existing treestands;
- the limits of site clearance are to be agreed with the Landscape Architect/Engineer on site before site clearance commences;
- no nails or other fixings shall be driven into trees;
- no soil, materials, equipment or machinery shall be stockpiled or stored within tree protection areas;
- no fencing or signs shall be attached to trees;
- no materials or machinery shall be stored under or against trees;
- no workshop, canteens, or similar shall be installed beneath trees, nor shall equipment maintenance etc. be carried out under trees;
- no trees shall be used as anchors for ropes or chains used in guying, pulling and the like;
- any flammable material or other materials likely to be injurious to the trees shall be kept away from the tree protection areas;
- no fires shall be lit inside or within 5m of the tree protection zone;
- no unauthorized stripping of surface vegetation within tree protection areas;
- no concrete mixing or use or washing out of chemicals shall take place within the tree protection zone;
- excessive water shall be drained away from the tree protection area;
- adjacent felling of trees is done so as not to damage or affect the health of retained trees;
- no unauthorized use of herbicides shall be permitted within the tree protectionzone;
- Any equipment shall be carefully operated to avoid causing damage to thetrees;
- alkaline fills or paving shall not be applied within the tree protection zone;

To enhance the health and the appearance of the retained trees, advance tree surgery works may be required prior to any construction activity. The following tree surgery work may be required.

2. Crown Thinning

Generally, no crown thinning should be necessary on the retained trees except where preparation works for root pruning are required or as per item i and ii above.

- i. Removal of broken, damaged and diseased branches;
- ii. Removal of weak or crossing branches to ensure a well-balanced crown.
- iii. Protection by fencing;
- iv. Securing of trees with cables throughout the construction period.

3. Root Pruning

Generally, no root pruning shall be permitted on the retained trees except where permission for pruning has been obtained in the Approved Tree Removal Application or for trees identified for transplanting. The contractor shall submit method statements for the proposed pruning works to the Landscape Architect/Engineer prior to commencing root pruning works.

4. Securing and Staking Retained Trees

During construction work and for the duration of the contract, should the site conditions require (e.g. local excavations in the vicinity of tree roots or removal of adjacent trees thus exposing retained trees to risk of wind blow), existing trees should be provided with adequate physical support including securing and tying to temporary supports. The contractor shall be liable for the cost of reinstatement of any tree that dies or is damaged due to lack of support and protection. The area of trunk guyed above ground shall be wrapped with pads of hessian or rubber to prevent the tie from chafing the trunk or branches. Retained trees shall be secured with 3 no. cables from the trunk attached to metal stakes 1000mm long driven 700mm into the ground.

5. Pruning works

Damaged branches or branches that must be removed shall be carefully pruned using a sharp clean implement to give a single flat sloping face cut and wounds shall be left open to the air to self-heal. All pruning works are to be supervised by a qualified arborist and are to be in accordance with recognized best practice including the Development Bureau's guidelines on pruning works.

6. Pests & Fungal Growth

The site shall be regularly checked for any insect or termite attack or fungus infestation particularly during known periods of activity. Remedial measures shall be carried out. All pesticides, fungicides or chemicals shall be propriety products registered in Hong Kong. Use of sprayed insecticide/fungicides shall only be permitted in strict accordance with the manufacturer's instructions. Use of such materials shall be undertaken with due care and have regard to the safety, environmentally friendly and convenience of the general public and is to be carefully controlled to

avoid unnecessary dispersion. In the case of termite attack, specialists shall be employed by the contractor to provide proposals to eliminate the termites and shall submit monthly monitoring reports throughout the contract and the Establishment Period.

7. Maintenance/Establishment Works

Retained trees shall be maintained from site possession until the completion of the project by the contractor who shall engage staff suitably trained and experienced in arboricultural and tree surgery works to undertake the task. The maintenance works shall include all measures necessary to establish and maintain the trees in an acceptable, vigorous and healthy growing condition.

8. Creation and Protection of the Cordon Zone by protective fencing

Tree protective chain link fence shall be erected before other works commence. Protective fencing (minimum 1.5m high) should be erected beyond the crown spread/drip line or the designed protection zone of all existing trees. The protective chain link fence with cover strip to be installed on a concrete base. The protective fence shall be restricted only to workers directly involved in tree work. No construction worker shall enter the cordon zone (CZ). No construction equipment or materials shall breach the CZ. No fires shall be lit in or near the CZ and hoisted materials shall not encroach into the CZ. Where there is a risk of the entry of contaminated construction water and other effluent into the CZ, the base of the protective fence shall be sealed by sand bags at least 200 mm tall if necessary or instructed by the Landscape Architect/Engineer.

9. Monitoring System

The performance of the retained trees shall be monitored throughout the project construction period on a monthly basis by the submission of Tree Protection Reports. Tree growth conditions with reference to trunk, branches, foliage, soil and root, any arboricultural problems and associated remedial measures shall be recorded. Any construction activities that may impact the trees negatively shall be reported well in advance by the Contractor to the Landscape Architect/Engineer for planning of preventive tree work to avoid possible damages

The contractor shall report to the management office the day's establishment work on the retained trees and a countersigned record log book of the work carried out shall be kept at the site office and made available for inspection. All non-routine tree problems are to be promptly reported to the Landscape Architect/Engineer.

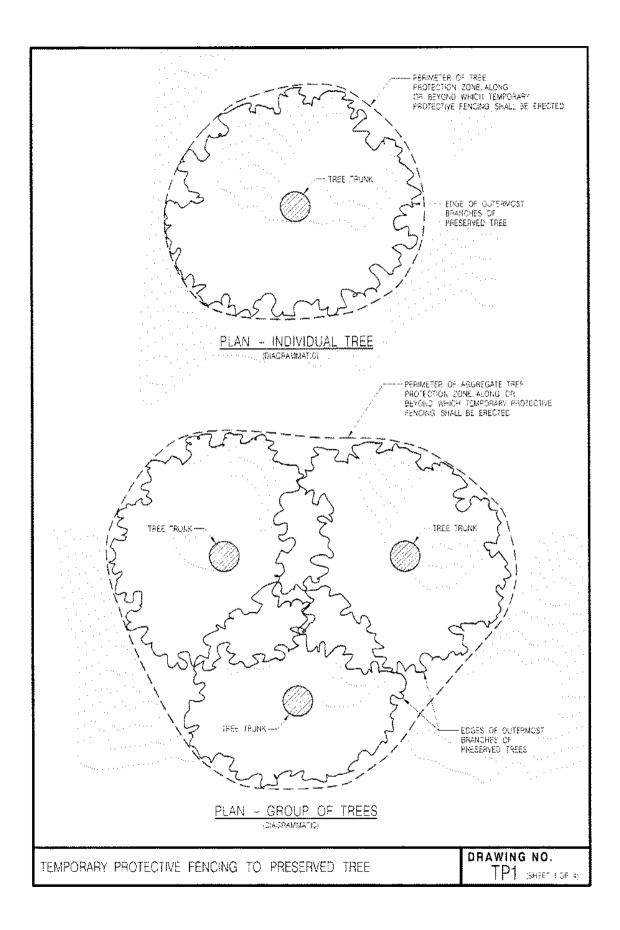
Photographs shall be taken at the following key stages of the tree works:

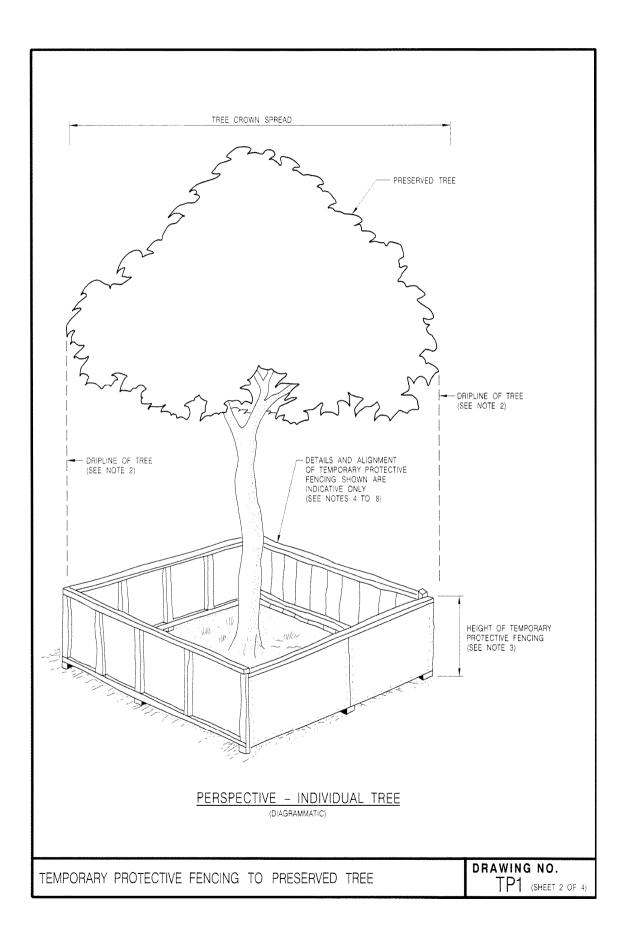
- i. Before commencement of construction;
- ii. Monthly, throughout the construction and establishment period.

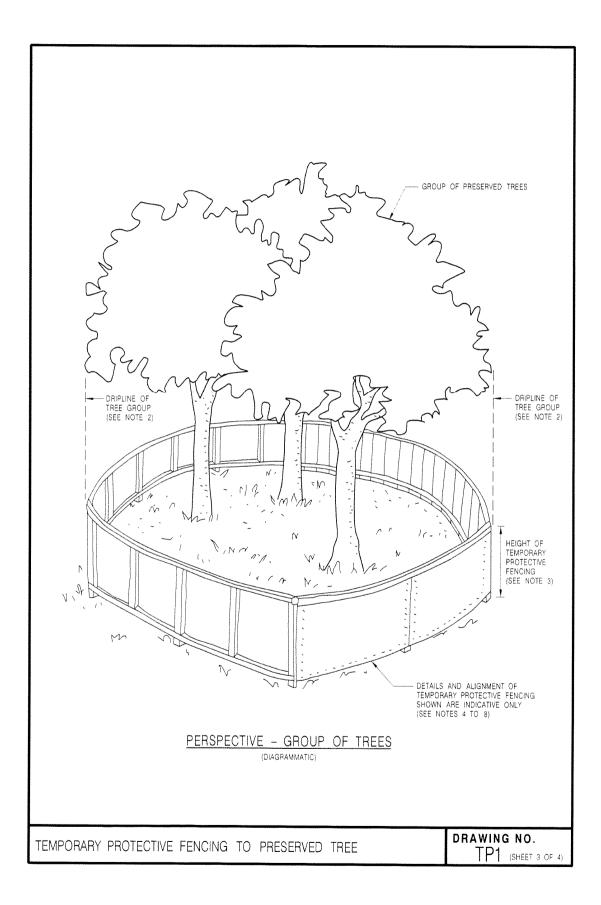
Monthly progress reports with progress photographs on the status of the retained trees including statements on their health should be prepared by the contractor's tree specialist or arborist for the Landscape Architect/Engineer's review and a complete copy provided at the stage of Certificate of Completion.

Drawings for Tree Protection Works

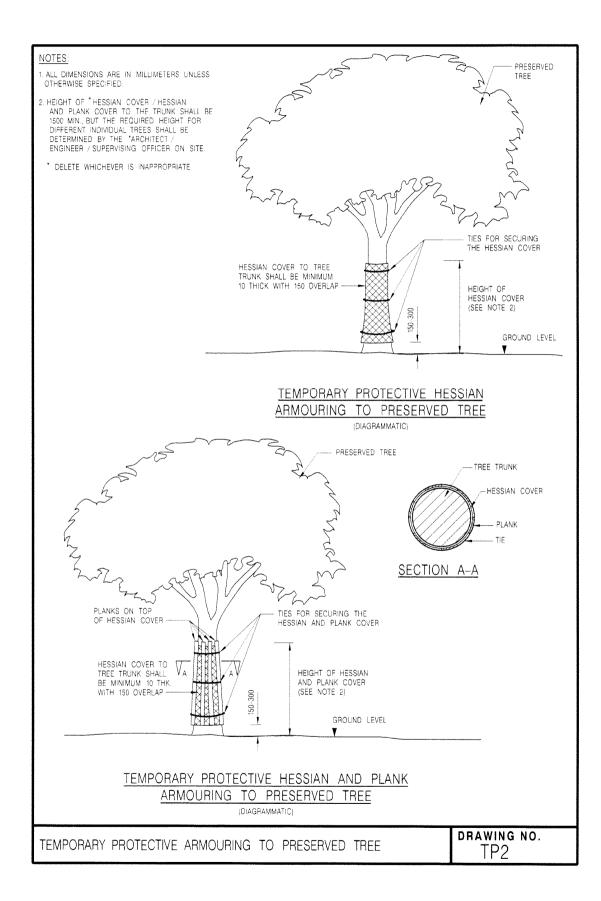
- TP1 Temporary Protective Fencing to Preserved Tree
- TP2 Temporary Protective Armouring to Preserved Tree
- TP3 Temporary Protective Mulching to Preserved Tree

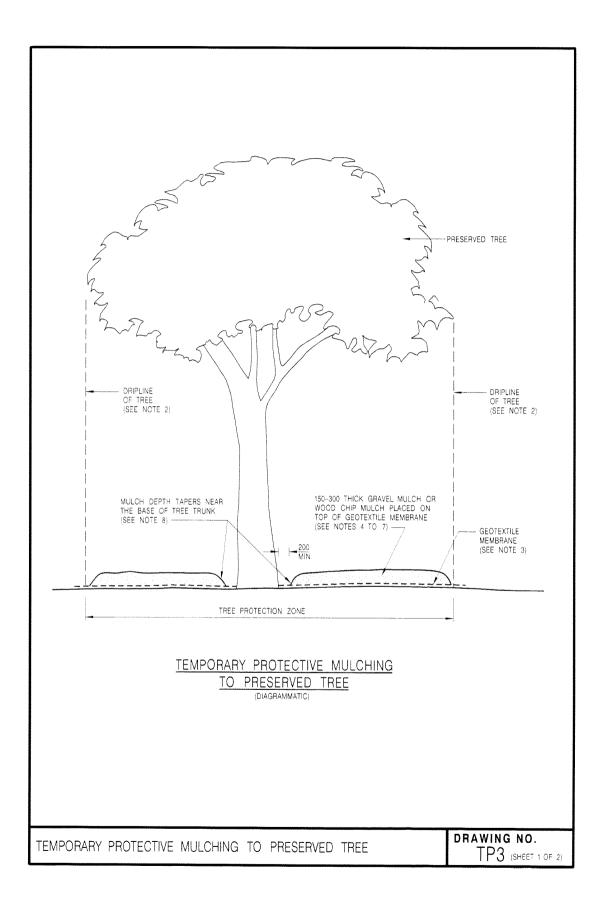






| | L DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED. | |
|------------------------|---|--|
| TRI | RIPLINE OF *TREE / TREE GROUP EXTENDS TO THE OUTERMOST BRANCHES OF THE *TREE / EE GROUP, DEFINING THE PERIMETER OF THE *TREE PROTECTION ZONE / AGGREGATE TREE OTECTION ZONE | |
| HE | EIGHT OF TEMPORARY PROTECTIVE FENCING SHALL BE 1500 MINIMUM BUT THE REQUIRED IGHT SHALL BE DETERMINED BY THE *ARCHITECT / ENGINEER / SUPERVISING OFFICER WHEN PROVING THE CONSTRUCTION DETAILS OF THE FENCING AS REFERRED TO IN NOTE 8 | |
| IMF AN AN API | MPORARY PROTECTIVE FENCING SHALL BE STRONG AND APPROPRIATE FOR RESISTING THE PACTS OF CONSTRUCTION ACTIVITIES ON THE SITE. IT SHALL BE MADE OF ROBUST MATERIALS D SHALL COMPRISE A VERTICAL AND HORIZONTAL SCAFFOLDING FRAMEWORK, WELL BRACED D SUPPORTING **CHAIN LINK FENCING / STEEL SHEET FENCING, OR OTHER FENCING AS PROVED BY THE "ARCHITECT / ENGINEER / SUPERVISING OFFICER. ONLY IN EXCEPTIONAL RCUMSTANCES SHALL PLASTIC WEBBING BE CONSIDERED. | |
| RE | E ALIGNMENT OF TEMPORARY PROTECTIVE FENCING CAN BE IN CIRCULAR, SQUARE, CTANGULAR OR ANY OTHER SHAPE SO LONG AS THE FENCING INCLUDING ITS FOUNDATIONS JES NOT ENCROACH INTO THE TREE PROTECTION ZONE. | |
| EN | LOCKABLE GATE SHALL BE PROVIDED TO THE TEMPORARY PROTECTIVE FENCING TO ALLOW TRY FOR CARRYING OUT THE NECESSARY ARBORICULTURAL WORKS OR MAINTENANCE WORKS TO E TREE OR ANY OTHER APPROVED WORKS WITHIN THE TREE PROTECTION ZONE. | |
| | ARNING NOTICE GUARDING AGAINST UNAUTHORISED OPERATIONS WITHIN FENCED AREA SHALL ERECTED ON THE TEMPORARY PROTECTIVE FENCING. | |
| FEI | IE CONTRACTOR SHALL SUBMIT THE CONSTRUCTION DETAILS OF THE TEMPORARY PROTECTIVE NCING TO THE *ARCHITECT / ENGINEER / SUPERVISING OFFICER FOR APPROVAL PRIOR TO ECTION OF THE FENCING. | |
| ** DEI WH | ETE WHICHEVER IS INAPPROPRIATE. LETE WHICHEVER IS INAPPROPRIATE. STEEL SHEET FENCING SHALL BE USED IN CIRCUMSTANCES IERE THE CONCENTRATION OF CONSTRUCTION ACTIVITY IS PARTICULARLY INTENSE OR THE ESERVED TREE IS EITHER PARTICULARLY VALUABLE OR PARTICULARLY VULNERABLE. | |
| ** DEI WH | LETE WHICHEVER IS INAPPROPRIATE STEEL SHEET FENCING SHALL BE USED IN CIRCUMSTANCES IERE THE CONCENTRATION OF CONSTRUCTION ACTIVITY IS PARTICULARLY INTENSE OR THE | |





| - | NOTES: | |
|-----------------|--|---------------------------------|
| | ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED | |
| 2. | DRIPLINE OF TREE EXTENDS TO THE OUTERMOST BRANCHES OF THE TREE, DEFINING PERIMETER OF THE TREE PROTECTION ZONE. | THE |
| 3 | THE GROUND BENEATH THE GEOTEXTILE MEMBRANE WITHIN THE TREE PROTECTION SHALL BE LEFT UNDISTURBED BUT THE DEBRIS AND THE EXISTING UNDERGROWTH THE GROUND SHALL BE CLEARED PRIOR TO APPLYING THE GEOTEXTILE MEMBRANE. *ARCHITECT / ENGINEER / SUPERVISING OFFICER'S AGREEMENT SHALL BE OBTAINED PRIOR TO CLEARANCE OF THE EXISTING UNDERGROWTH. | ON |
| 4. | WHERE GRAVEL MULCH IS USED. THE NOMINAL SIZE OF GRAVEL SHALL BE OF 20 DIA AND THE GRAVEL SHALL BE OF INERT. LIME-FREE MATERIALS WITH NO FINES. | METER |
| 5 | WHERE WOOD CHIP MULCH IS USED THE NOMINAL PARTICLE SIZE SHALL BE IN THE 2mm TO 20mm AND THE WOOD CHIPS SHALL BE FREE FROM PERNICIOUS WEEDS. CONTAMINATION, RUBBISH AND OTHER DELETERIOUS MATERIAL. | RANGE CHEMICAL |
| 6. | TEMPORARY PROTECTIVE MULCHING SHALL BE INSPECTED AT MONTHLY INTERVALS AN IF NECESSARY, SHALL BE REPLENISHED TO THE SPECIFIED THICKNESS. | ND, |
| 7. | WHERE.IN ADDITION TO PEDESTRIAN LOADS, THE PASSAGE OR PARKING OF VEHICLE OPERATION OF EQUIPMENT OR MACHINERY WITHIN THE TREE PROTECTION ZONE HAV AGREED BY THE "ARCHITECT / ENGINEER / SUPERVISING OFFICER, DOUBLE, OVERLAPP THICK METAL SHEET COVERINGS, OR OTHER MATERIALS OF EQUIVALENT STRENGTH A BY THE "ARCHITECT / ENGINEER / SUPERVISING OFFICER, SHALL BE LAID ON TOP OF TEMPORARY PROTECTIVE MULCHING TO PROVIDE ADDITIONAL PROTECTION FROM SOL | S BEEN NG S AGREFD THE |
| 8. | MULCH SHALL BE KEPT AWAY FROM THE BASE OF TREE TRUNK TO PREVENT ROOT | COLLAR ROT. |
| 9. | WHERE THE PRESERVED TREE IS ON SLOPING GROUND, 300 HIGH TIMBER EDGE SHA PEGGED ON DOWNSLOPE SIDE OF THE TREE PROTECTION ZONE TO HOLD THE MUL | ILL BE ICH. |
| | - DELETE WHICHEVER IS INAPPROPRIATE. | |
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| | | |
| TEMPORARY PROTE | ECTIVE MULCHING TO PRESERVED TREE | DRAWING NO. |
| | | TP3 (SHEET 2 OF 2) |