

FORM 5  
ENVIRONMENTAL IMPACT ASSESSMENT ORDINANCE  
(CHAPTER 499)  
SECTION 13(1)

Application for Variation of an Environmental Permit

PART A PREVIOUS APPLICATIONS

- No previous application for variation of an environmental permit.
  - The environmental permit was previously amended.
- Application No. : .....

PART B DETAILS OF APPLICANT

B1. Name : (person or company)

Food and Environmental Hygiene Department (FEHD)

[Note : In accordance with section 13(1) of the Ordinance, the person holding an environmental permit or a person who assumes responsibility for the designated project may apply for variation of the environmental permit.]

B2. Business Registration No. :  
(if applicable)

B3. Correspondence Address :

B4. Name of Contact Person :

B5. Position of Contact Person :

B6. Telephone No. :

B7. Fax No. :

B8. E-mail Address : (if any)

PART C DETAILS OF CURRENT ENVIRONMENTAL PERMIT

C1. Name of the Current Environmental Permit Holder :

Food and Environmental Hygiene Department (FEHD)

C2. Application No. of the Current Environmental Permit : AEP-532/2017

C3. The Current Environmental Permit was Issued in : month / year

06 2017

**Important Notes :** Please submit the application together with  
(a) 3 copies of this completed form; and  
(b) appropriate fee as stipulated in the Environmental Impact Assessment (Fees) Regulation  
to the Environmental Protection Department at the following address :  
The EIA Ordinance Register Office,  
27th floor, Southorn Centre, 130 Hennessy Road,  
Wan Chai, Hong Kong.



Tick (./) the appropriate box

**PART D PROPOSED VARIATIONS TO THE CONDITIONS IN CURRENT ENVIRONMENTAL PERMIT**

D1. Condition(s) in the Current Environmental Permit :	D2. Proposed Variation(s) :	D3. Reason for Variation(s) :	D4. Describe the environmental changes arising from the proposed variation(s) :	D5. Describe how the environment and the community might be affected by the proposed variation(s) :	D6. Describe how and to what extent the environmental performance requirements set out in the EIA report previously approved or project profile previously submitted for this project may be affected :	D7. Describe any additional measures proposed to eliminate, reduce or control any adverse environmental impact arising from the proposed variation(s) and to meet the requirements in the Technical Memorandum on Environmental Impact Assessment Process :
<p>1) Part B, Scale and Scope of Designated Project</p> <p>2) Figure 1</p>	<p>1) To amend item (i) of the major component of the Project as: "Construction of a split-level platform of approximately 225m<sup>2</sup> within the existing Lai Chi Yuen Cemetery boundary to accommodate outdoor niches and the ancillary facilities."</p> <p>2) To replace Figure 1 by the attached figure.</p>	<p>To update the information on the Environmental Permit in accordance with the latest design layout of the Project.</p>	<p>Please refer to <b>Table 3-1</b> of the attached Environmental Review Report (ERR) in support of this Application for Variation of Environmental Permit (VEP).</p>	<p>No unacceptable material changes to the impacts envisaged on the environment and the community. Details are presented in <i>Section 4.2</i> of the attached ERR.</p>	<p>The environmental performance requirements as set out in the approved EIA report is not affected.</p>	<p>All measures identified in the approved EIA report remain applicable and will be implemented. No additional measure is required.</p>

**PART E DECLARATION BY APPLICANT**

E1. I hereby certify that the particulars given above are correct and true to the best of my knowledge and belief. I understand the environmental permit may be suspended, varied or cancelled if any information given above is false, misleading, wrong or incomplete.

[Redacted Signature]

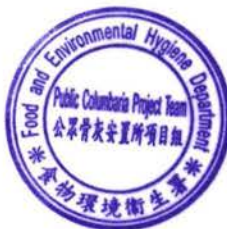
Signature of Applicant

[Redacted Name]

Full Name in Block Letters

[Redacted Position]

Position

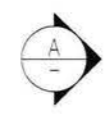
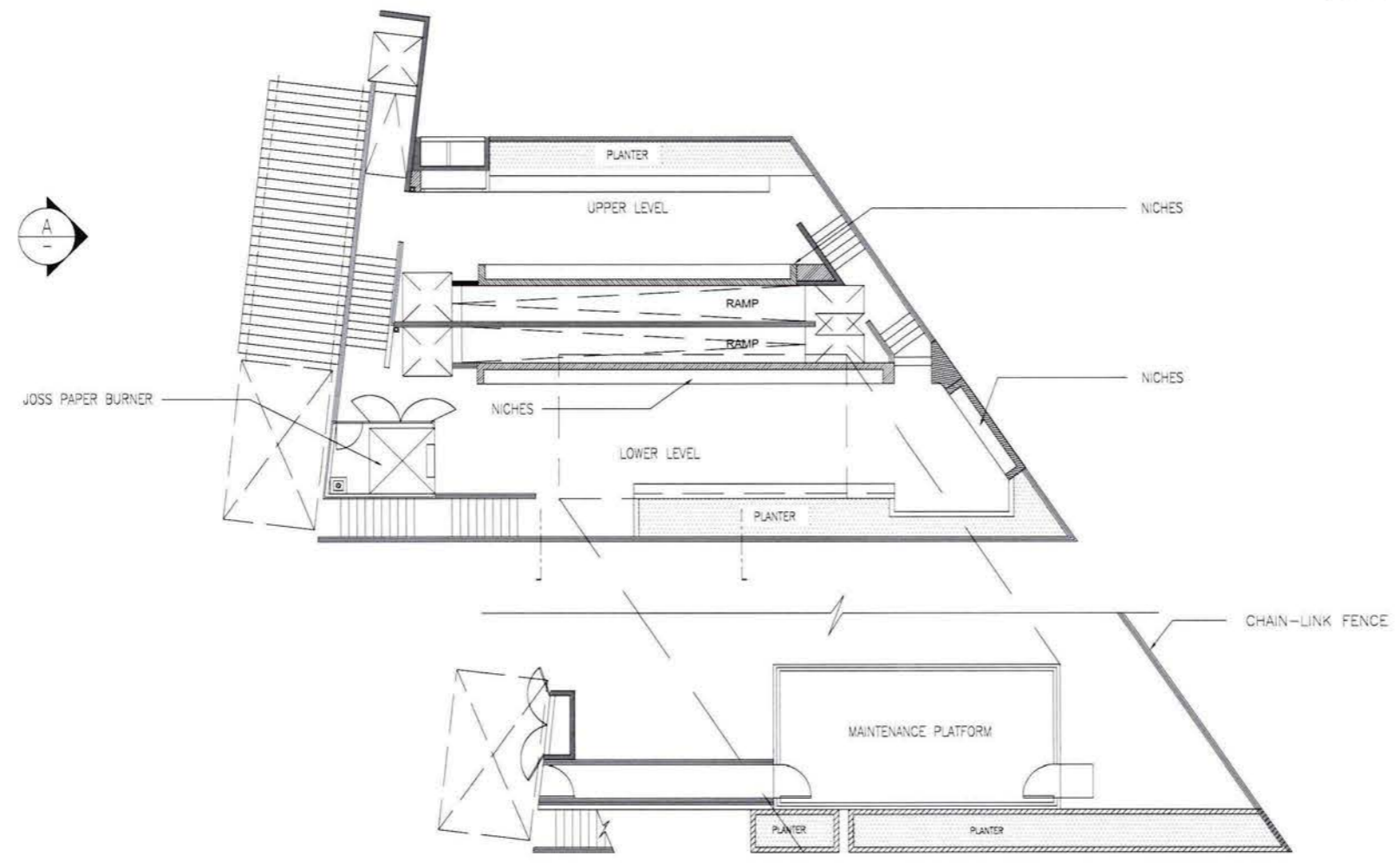


on behalf of Food and Environmental Hygiene Department  
Company Name and Chop (as appropriate)

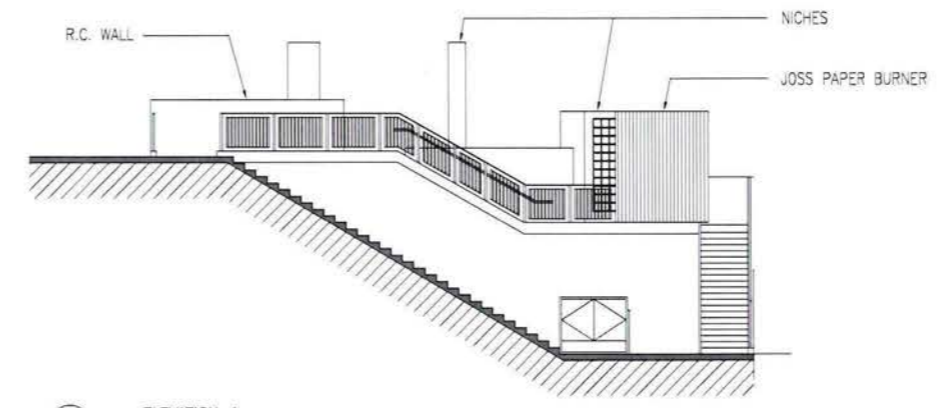
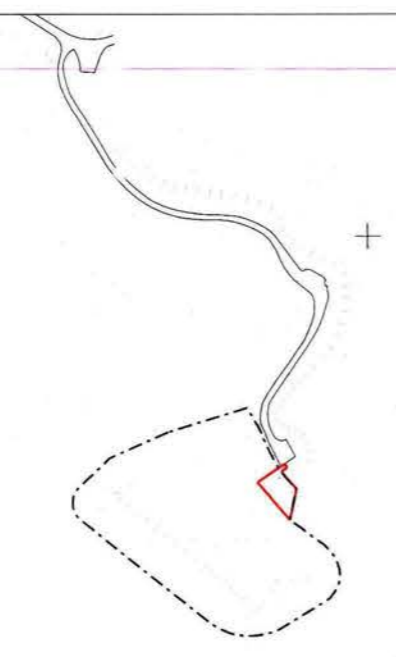
18 March 2019  
Date

**NOTES :**

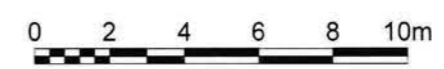
1. A person who constructs or operates a designated project in Part I of Schedule 2 of the Ordinance or decommissions a designated project listed in Part II of Schedule 2 of the Ordinance without an environmental permit or contrary to the permit conditions commits an offence under the Ordinance and is liable to a maximum fine of \$5,000,000 and to a maximum imprisonment for 2 years.
2. A person for whom a designated project is constructed, operated or decommissioned and who permits the carrying out of the designated project in contravention of the Ordinance commits an offence and is liable to a maximum fine of \$5,000,000 and to a maximum imprisonment for 2 years.



NGAU KOO WAN HILL COURT



ELEVATION - A



NOTES:

Consultant

**Allied Environmental Consultants Limited**  
 ARCHITECTS & ENVIRONMENTAL ENGINEERS

Project No.: 1626

File Name:

Project:  
 Mui Wo Lai Chi Yuen Extension

Drawing Title:  
 Layout Plan (Indicative)

Drawing No:	VEP	Revision:	1
Scale:	As shown	Date:	Mar 2019

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Issue No. : Issue 1  
Issue Date : March 2019  
Project No. : 1626

**MUI WO LAI CHI YUEN  
EXTENSION**

**ENVIRONMENTAL REVIEW  
REPORT**

Prepared By:  
**ALLIED ENVIRONMENTAL CONSULTANTS LTD.**

**COMMERCIAL-IN-CONFIDENCE**

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VEP-558/2019  
Total-1  
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Issue Date : March 2019  
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## MUI WO LAI CHI YUEN EXTENSION

### ENVIRONMENTAL REVIEW REPORT

Prepared By:  
ALLIED ENVIRONMENTAL CONSULTANTS LTD.

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We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

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## 1 INTRODUCTION

### 1.1 Background

- 1.1.1 The Food and Environmental Hygiene Department (FEHD) proposed an extension of the Mui Wo Lai Chi Yuen Cemetery (the Project) to construct an elevated platform of around 225m<sup>2</sup> within the existing Lai Chi Yuen Cemetery boundary to accommodate the outdoor niches and the ancillary facilities including one joss paper burner and planters. The Project is classified as a Designated Project (DP) under Category Q.1 – the Project is wholly within an existing country park, Part I in Schedule of the Environmental Impact Assessment Ordinance (EIAO). The Environmental Impact Assessment (EIA) report was approved by EPD in June 2017 and according to the corresponding Environmental Permit (EP) no. EP-532/2017.
- 1.1.2 As presented in the approved EIA report, an elevated platform of around 225m<sup>2</sup> supported by structural columns will be constructed to accommodate some 790 niches. All the niches will be in outdoor setting. The ancillary facilities like a joss paper burner (with fresh water tank and a sewage holding tank for supporting its operation) and planters will be provided as well. Also, a site access of 7.5m<sup>2</sup>, which is indispensable for the development, will be constructed just outside the cemetery boundary due to compact spatial condition of the project site available in the cemetery.
- 1.1.3 Subsequent to the approval of the EIA report, the design layout of the Project has been slightly updated and modified.

### 1.2 Objective of the Environmental Review

- 1.2.1 This Environmental Review (ER) is prepared to critically review the latest project design layout in comparison with that presented in the approved EIA report, and to evaluate the associated potential variation of environmental impacts. It also demonstrates whether such potential variation will trigger exceedance or violation of the environmental performance requirements set out in the approved EIA report with mitigation measures in place (as required), and therefore to constitute “material change” as defined in the Technical Memorandum under the Environmental Impact Assessment Process (EIAO-TM).
- 1.2.2 This ER Report (ERR) summarises the abovementioned findings, which has been tailored to sufficiently demonstrate the criteria mentioned in *Section 1.2.1* can be met.

## 2 OUTLINE OF THE PROJECT

### 2.1 General

2.1.1 The Project site is located at a slope next to the entrance staircase of the existing Lai Chi Yuen Cemetery with a total area of 232.5m<sup>2</sup>. Location of the Project site is shown in *Figure 2-1*.

2.1.2 In the original design presented in the approved EIA report (hereafter named as “the EIA Scheme”), a single-layer elevated platform of around 225m<sup>2</sup> supported by structural columns will be constructed to accommodate some 790 niches facing north-east or south-west. A site access of 7.5m<sup>2</sup> will also be constructed just outside the cemetery boundary to connect the platform with the existing cemetery.

### 2.2 Proposed Modification of the Project

2.2.1 The proposed update design of the Project (hereafter named as “the Proposed Scheme”) has largely followed the EIA Scheme. With the site boundary and footprint of the platform remain unchanged, the following slight modifications to the layout design are made:

- a) Adoption of split-level design for the platform;
- b) The water pumps will be installed on the maintenance platform located at mezzanine floor underneath the platform;
- c) Orientation of the niches is reference to the existing graves and face north east, south-west and west.

2.2.2 In comparison with the EIA Scheme, the Proposed Scheme adapts more with the existing topographic condition and integrates with the surrounding environment to minimise building bulk slightly. The split-level platform also enhances the spatial quality between niches. Relocation of the water tanks and pumps are also anticipated to further improve the noise screening by natural terrain around the Project site.

2.2.3 A comparison of the design parameters for the Proposed Scheme for this ER and the EIA Scheme is outlined in *Table 2-1* below. The layout plan of the EIA Scheme and proposed Scheme are shown in *Figures 2-2* and *2-3* respectively.

**Table 2-1 Design Parameters of the “EIA Scheme” and “Proposed Scheme”**

<b>Design Parameter</b>	<b>EIA Scheme</b>	<b>Proposed Scheme</b>
Project Scope	<ul style="list-style-type: none"> <li>• construct an elevated platform of around 225m<sup>2</sup> supported by structural columns to accommodate some 790 niches in outdoor setting</li> <li>• install ancillary facilities like a joss paper burner (with fresh water tank and a sewage holding tank for supporting its operation) and planters</li> <li>• construct a site access of 7.5m<sup>2</sup> just outside the cemetery boundary</li> </ul>	<ul style="list-style-type: none"> <li>• construct split-levels platform of around 225m<sup>2</sup> supported by structural columns to accommodate 790 niches in outdoor setting.</li> <li>• install ancillary facilities like a joss paper burner (with fresh water tank and a sewage holding tank for supporting its operation) and planters</li> <li>• construct a site access of 7.5m<sup>2</sup> just outside the cemetery boundary</li> </ul>
Site Area	<ul style="list-style-type: none"> <li>• 232.5m<sup>2</sup></li> </ul>	<ul style="list-style-type: none"> <li>• 232.5m<sup>2</sup></li> </ul>
Niches Orientation	<ul style="list-style-type: none"> <li>• Faces north-east and south-west</li> </ul>	<ul style="list-style-type: none"> <li>• Faces north-east, south-west and west</li> </ul>
Implementation Programme	<ul style="list-style-type: none"> <li>• Construction: Feb 2018 – Sept 2019</li> <li>• Operation: Oct 2019 onward</li> </ul>	<ul style="list-style-type: none"> <li>• Construction: Mar 2019 – End-2020</li> <li>• Operation: End-2020 onward</li> </ul>
Construction Method	<ul style="list-style-type: none"> <li>• Elevated platform to be constructed by in-situ concrete casting</li> <li>• Site access to be constructed by simple open cut followed by in-situ casting of the reinforced concrete retaining wall/slab.</li> <li>• Required depth of excavation is expected to be less than 1.5m.</li> <li>• Niches to be constructed by in-situ concrete casting</li> </ul>	<ul style="list-style-type: none"> <li>• Both elevated platform and site access to be constructed by simple open cut followed by in-situ concrete casting.</li> <li>• No retaining wall/slab will be constructed.</li> <li>• Maximum required depth of excavation is around 1.7m.</li> <li>• Niches to be constructed by in-situ concrete casting.</li> </ul>
Operation Hours of Joss Paper Burner	<ul style="list-style-type: none"> <li>• 0830 – 1730</li> </ul>	<ul style="list-style-type: none"> <li>• 0830 – 1730</li> </ul>
Concurrent Project	<ul style="list-style-type: none"> <li>• No concurrent project to be constructed and operated in the vicinity.</li> </ul>	<ul style="list-style-type: none"> <li>• No concurrent project to be constructed and operated in the vicinity.</li> </ul>

### 3 ENVIRONMENTAL REVIEW

#### 3.1 General

- 3.1.1 The approved EIA report has been reviewed to identify the key assumptions that are relevant to layout design and the associated impacts assessed in the EIA report, as well as to determine the variation of and environmental implication to the assumptions and/or impacts due to the modification of layout design. The findings are presented in *Table 3-1*.

Table 3-1 Environmental Implications from Layout Modification in comparison with EIA Findings

Key EIA Assumptions relevant to Layout Design	Variations of Assumptions in the Proposed Scheme	Predicted Impact of the EIA Scheme	Variation of Impact in the Proposed Scheme	Recommended Measures
<i>Air Quality</i>				
<u>Construction Phase</u>	<u>Construction Phase</u>	<u>Construction Phase</u>	<u>Construction Phase</u>	<u>Construction Phase</u>
<p>a) Potential sources of impact would be related to dust emission from site formation, erection of retaining walls and construction of proposed new niches and the ancillary facilities.</p> <p>b) Only minor excavation (i.e. depth &lt; 1.5m) and backfilling works for the site access would be expected. Small amounts of construction and demolition (C&amp;D) materials (approximately 500m<sup>3</sup>) would be generated.</p>	<p>a) Nil</p> <p>b) Construction of both site access and platform involve minor excavation and backfilling works with a maximum required depth of around 1.7m. As estimated by the Project's Structural Engineer, the Proposed Scheme is expected to generate 350m<sup>3</sup> C&amp;D materials only, which is 30% less than that generated from the EIA Scheme. As such, the scale of works is still considered as minor and small.</p>	<p>1) Since only small amounts of C&amp;D materials would be generated, potential impact associated with the transportation of dusty materials would be negligible.</p> <p>2) Due to the minor and small scale of the construction works, dust emission would be insignificant.</p> <p>3) With the implementation of dust suppression measure and good site practice, no adverse air quality impact would be anticipated.</p> <p>4) Since there was no major construction activity identified within 500m of the Project, no cumulative air quality impact is expected.</p>	<p>1) Given that there is 30% reduction in the generation of C&amp;D waste in the Proposed Scheme, potential impact from the transportation of dusty materials is not anticipated to be beyond that predicted in the EIA.</p> <p>2) Nil</p> <p>3) Nil</p> <p>4) Nil</p>	<ul style="list-style-type: none"> <li>All measures identified in the EIA report remain applicable and will be implemented in the Proposed Scheme.</li> </ul>

Key EIA Assumptions relevant to Layout Design	Variations of Assumptions in the Proposed Scheme	Predicted Impact of the EIA Scheme	Variation of Impact in the Proposed Scheme	Recommended Measures
<u>Operation Phase</u>				
<p>c) The proposed joss paper burner would adopt the Best Available Technology (BAT), including a water scrubber, an electrostatic precipitator and an exhaust fan, to remove air pollutants in the emission.</p> <p>d) Good operational practices and administrative measures as stipulated in EPD's Guideline on Air Pollution Control for Joss Paper Burning at Chinese Temples, Crematoria and Similar Places would be adopted.</p> <p>e) 27kg of joss paper offerings are estimated to be combusted in the joss paper burner in one day.</p>	<p>c) Nil</p> <p>d) Nil</p> <p>e) Nil</p>	<p>5) Considering the amount of offerings that would be burnt each day would be small, the infrequent use of the joss paper burner and with the flue gas treatment system incorporated and the implementation of the good operational practices and administrative measures, adverse air quality impact arising from the joss paper burning would not be anticipated.</p> <p>6) Since there was no major industrial emission identified within 500m of the Project, no cumulative air quality impact from industrial emission is expected.</p>	<p>5) Nil</p> <p>6) Nil</p>	<p>Operation Phase</p> <ul style="list-style-type: none"> <li>All measures identified in the EIA report remain applicable and will be implemented in the Proposed Scheme.</li> </ul>
<u>Noise</u>				
<u>Construction Phase</u>				
<p>a) Potential source of noise impact would be the use of powered mechanical equipment (PME) for various construction activities.</p>	<p>a) Nil</p>	<p>1) For normal daytime working hours, the predicted noise levels at representative NSRs would be in the range of 58 to 75 dB(A) in the absence of mitigation measures. Exceedances of the construction noise criteria (<math>L_{eq(30)}</math>)</p>	<p>1) Nil</p>	<p>Construction Phase</p> <ul style="list-style-type: none"> <li>All measures identified in the EIA report remain applicable and will be implemented in the Proposed Scheme.</li> </ul>

Key EIA Assumptions relevant to Layout Design	Variations of Assumptions in the Proposed Scheme	Predicted Impact of the EIA Scheme	Variation of Impact in the Proposed Scheme	Recommended Measures
<p>b) The construction activities of the Project would be carried out in non-restricted hours (0700-1900 hours) during normal working days.</p> <p>c) Percussive piling and blasting work would not be required. The works would be carried out by general construction methods.</p> <p>d) Proposed plant inventory with on-time percentage and construction programme is presented in Appendices 4.5 and 4.6 of the EIA report respectively.</p> <p><u>Operation Phase</u></p> <p>e) Fixed plants to be installed include two water pumps and a joss paper burner, and shall be operated simultaneously.</p> <p>f) The total maximum permissible sound power levels (Max. SWL) of the water pumps and joss paper burner at the extension area should be 94 dB(A).</p>	<p>b) Nil</p> <p>c) Nil</p> <p>d) Nil</p> <p><u>Operation Phase</u></p> <p>e) Fixed plants to be installed include three water pumps and a joss paper burner. All items shall be operated simultaneously.</p> <p>f) Nil</p>	<p>minutes) 75 dB(A)) for residential uses were not predicted.</p> <p>2) Since there was no major construction activity identified within 300m of the Project boundary, no cumulative construction noise impact is expected.</p> <p><u>Operation Phase</u></p> <p>3) In view of the buffer distance of around 82m from the nearest village houses and the screening of natural terrain around the site, the potential fixed plant noise impact arising from the Project would not be insurmountable.</p> <p>4) No adverse operational noise impact would be expected arising from the water pumps and joss paper burner if they are</p>	<p>2) Nil</p> <p><u>Operation Phase</u></p> <p>3) Nil.</p> <p>4) Nil</p>	<p><u>Operation Phase</u></p> <ul style="list-style-type: none"> <li>No mitigation measure for the operation of the Project is required as concluded in the EIA report.</li> </ul>

Key EIA Assumptions relevant to Layout Design	Variations of Assumptions in the Proposed Scheme	Predicted Impact of the EIA Scheme	Variation of Impact in the Proposed Scheme	Recommended Measures
		<p>designed to not exceed the Max. SWL.</p> <p>5) Since there is no fixed noise source in the existing Lai Chi Yuen Cemetery, cumulative noise impact arising from the operation of the existing cemetery and the Project would not be expected.</p>	5) Nil	
<b>Hazard to Life</b>				
<u>Construction &amp; Operation Phase</u>	<u>Construction &amp; Operation Phase</u>	<u>Construction &amp; Operation Phase</u>	<u>Construction &amp; Operation Phase</u>	<u>Construction &amp; Operation Phase</u>
<p>a) 50 construction workers are assumed to be working on site.</p> <p>b) A ratio of about 1 visitor per occupied niches is assumed as the population pattern of the Cemetery after the construction of new niches.</p>	<p>a) Nil</p> <p>b) Nil</p>	<p>1) Since the project site is away from the SMBWTW for at least 300m, the Project will not create any additional hazard to SMBWTW.</p> <p>2) With reference to Figure 5.11 of the EIA report, the region with individual risk higher than <math>1 \times 10^{-5}</math> /year (brown area) only covers hillside and a small section of road only used by Silvermine Bay Water Treatment Works (SMBWTW). Therefore, the individual risk result is compliant with the criteria stipulated in Annex 4 of EIAO-TM.</p>	<p>1) Nil</p> <p>2) Nil</p>	<ul style="list-style-type: none"> <li>All recommended good practices identified in the EIA report remain applicable and will be implemented in the Proposed Scheme.</li> </ul>



Key EIA Assumptions relevant to Layout Design	Variations of Assumptions in the Proposed Scheme	Predicted Impact of the EIA Scheme	Variation of Impact in the Proposed Scheme	Recommended Measures
		<p>3) The societal risk for construction or operation case both lies within the ALARP region according to the F-N curve for societal risk in Figure 5.12 of the approved EIA report. The additional societal risk by the Project (either construction or operation phase) is not significant.</p> <p>4) The Potential Loss of Life (PLL) increase due to the Construction Case and Operation Case are both less than 1%, which is insignificant. Therefore, the risk contribution of the Project is not significant.</p> <p>5) After implementing all the recommended risk mitigation measures, the overall risk is in compliance with the ALARP principles and Risk Guidelines (Annex 4 of EIAO-TM).</p>	<p>3) Nil</p> <p>4) Nil</p> <p>5) Nil</p>	
<b>Water Quality</b>				
<p><u>Construction Phase</u></p> <p>a) The potential sources of impact would be the release of wastewater from surface works area and open cut excavation.</p>	<p><u>Construction Phase</u></p> <p>a) Nil</p>	<p><u>Construction Phase</u></p> <p>1) Unacceptable impacts on water quality due to construction site runoff are not expected, provided that the relevant mitigation measures as specified in the Practice Note for</p>	<p><u>Construction Phase</u></p> <p>1) Nil</p>	<p><u>Construction Phase</u></p> <ul style="list-style-type: none"> <li>All measures identified in the EIA report remain applicable and will be implemented in the Proposed</li> </ul>

Key EIA Assumptions relevant to Layout Design	Variations of Assumptions in the Proposed Scheme	Predicted Impact of the EIA Scheme	Variation of Impact in the Proposed Scheme	Recommended Measures
<p>b) All the project works would be land-based and the water quality impact generated from the projects would be localized and would be controlled with proper mitigation measures in place</p>	<p>b) Nil</p>	<p>Professional Persons (PECC PN) 1/94 "Construction Site Drainage" are properly implemented.</p> <p>2) Adoption of guidelines and good site practices for handling and disposal construction discharges as specified in Section 6.8 of the EIA report would minimize the potential impact.</p> <p>3) The potential impact from accidental spillage of chemicals can be mitigated by practical mitigation measures and good site practices as specified in Section 6.8 of the EIA report.</p> <p>4) After undertaking the measures specified in Section 6.8 of the EIA report, the sewage generation would not cause water pollution problem.</p> <p>5) Since no other major concurrent project related to water quality impact is identified within the study area, no cumulative construction water impact is expected.</p>	<p>2) Nil</p> <p>3) Nil</p> <p>4) Nil</p> <p>5) Nil</p>	<p>Scheme.</p>

Key EIA Assumptions relevant to Layout Design	Variations of Assumptions in the Proposed Scheme	Predicted Impact of the EIA Scheme	Variation of Impact in the Proposed Scheme	Recommended Measures
<b>Operation Phase</b>				
<p>c) The potential sources of impact would be the sewage generated from staff and visitors as well as other site runoff (e.g. storm drainage) from the Project.</p> <p>d) The amount of sewage to be generated by the visitors and staff and site effluent as well as runoff of the new niches would be limited in view of the small scale of the Project.</p>	<p>c) Nil</p> <p>d) Nil</p>	<p>6) With the implementation of recommended mitigation measures and best management practices as specified in Section 6.8 of the EIA report, it is anticipated that the operational water quality impact would be minimal and acceptable.</p>	<p>6) Nil</p>	<ul style="list-style-type: none"> <li>All measures identified in the EIA report remain applicable and will be implemented in the Proposed Scheme.</li> </ul>
<b>Waste Management</b>				
<b>Construction Phase</b>				
<p>a) The primary waste arising would mainly be construction and demolition (C&amp;D) materials from the works.</p> <p>b) The total quantity of C&amp;D materials generated from the works is estimated to be approximately 500m<sup>3</sup>, of which 450m<sup>3</sup> would be inert materials (i.e. public fill) and approximately 50m<sup>3</sup> would be non-inert materials (i.e. C&amp;D waste).</p>	<p>a) Nil</p> <p>b) Construction of both site access and platform involve minor excavation and backfilling works with a maximum required depth of around 1.7m. As estimated by the Project's Structural Engineer, the Proposed Scheme is expected to generate 350m<sup>3</sup> C&amp;D materials only, of which 300m<sup>3</sup> would be</p>	<p>1) With the implementation of proper management for C&amp;D materials and good site practices as specified in Section 7.6 of the EIA report, no unacceptable environmental impacts due to handling and disposal of C&amp;D materials arising from the Project are anticipated.</p> <p>2) With proper on-site handling and storage as well as regular disposal of the general refuses, no unacceptable environmental</p>	<p>1) Given that there is 30% and 40% reduction in the generation and disposal of C&amp;D waste in the Proposed Scheme, potential disposal impact is not anticipated to be beyond that predicted in the EIA.</p> <p>2) Nil</p>	<ul style="list-style-type: none"> <li>All measures identified in the EIA report remain applicable and will be implemented in the Proposed Scheme.</li> </ul>

Key EIA Assumptions relevant to Layout Design	Variations of Assumptions in the Proposed Scheme	Predicted Impact of the EIA Scheme	Variation of Impact in the Proposed Scheme	Recommended Measures
<p>c) Approximately 100m<sup>3</sup> of inert C&amp;D materials would be reused on-site as backfill materials. The estimated quantity of inert C&amp;D materials to be disposed of would be approximately 350m<sup>3</sup>.</p> <p>d) It is expected there would not be more than 50 workers per day on site, which is estimated no more than 32.5kg general refuse per day would be generated.</p> <p>e) In view of the nature and small scale of the Project, the construction works would involve only a very small number of construction plants and hence the amount of chemical waste to be generated is expected to be minimal.</p> <p><u>Operation Phase</u></p>	<p>non-inert C&amp;D materials. It is 30% less than that generated from the EIA Scheme.</p> <p>c) As estimated by the Project's Structural Engineer, 95m<sup>3</sup> of inert C&amp;D materials would be backfilled, resulting only 205m<sup>3</sup> inert C&amp;D materials would be disposed, which is 40% less than that assumed in the EIA Scheme.</p> <p>d) Nil</p> <p>e) Nil</p> <p><u>Operation Phase</u></p>	<p>impact is anticipated.</p> <p>3) With the implementation of proper handling, storage and disposal of chemicals as specified in Section 7.6.10 of the EIA report, no unacceptable environmental impacts are anticipated.</p> <p><u>Operation Phase</u></p>	<p>3) Nil</p> <p><u>Operation Phase</u></p>	
<p>f) The key waste arising is expected to be the general refuse generated by the visitors</p>	<p>f) Nil</p>	<p>4) Given the small amount of waste generated from visitors</p>	<p>4) Nil</p>	<ul style="list-style-type: none"> <li>All measures identified in the</li> </ul>

Key EIA Assumptions relevant to Layout Design	Variations of Assumptions in the Proposed Scheme	Predicted Impact of the EIA Scheme	Variation of Impact in the Proposed Scheme	Recommended Measures
<p>and staffs, ash and other non-combustible residue generated from the burning of joss paper.</p> <p>g) It is estimated that the quantity of ash and other non-combustible residues would be 1m<sup>3</sup> per month for normal days and 6m<sup>3</sup> per month for festive periods.</p> <p>h) It is estimated that the quantity of general refuse would be approximately 10m<sup>3</sup> per month for normal days and 92m<sup>3</sup> per month for festive periods.</p>	<p>g) Nil</p> <p>h) Nil</p>	<p>using the joss paper burner that requires disposal of and with the appropriate waste management practice implemented, no adverse environmental impacts from ash and other non-combustible residues from the burning of joss paper are anticipated.</p> <p>5) With proper waste management facilities in place, the potential environmental impacts arising from the handling and disposal of the general refuse would be negligible and would not cause any major environmental concerns.</p>	<p>5) Nil</p>	<p>EIA report remain applicable and will be implemented in the Proposed Scheme.</p>
<b>Ecology</b>				
<u>Construction Phase</u>	<u>Construction Phase</u>	<u>Construction Phase</u>	<u>Construction Phase</u>	<u>Construction Phase</u>
<p>a) Potential sources of ecological impact would be related to the loss of habitat due to land formation for the Project (i.e. direct impact) and disturbance to wildlife due to construction activities (i.e. indirect impact).</p> <p>b) In order to avoid woodland of higher ecological value and minimize the loss of woodland / plantation, the EIA Scheme has</p>	<p>a) Nil</p> <p>b) Nil</p>	<p>1) Approximately 0.0192ha of natural woodland and 0.004ha of plantation woodland within the proposed works areas would be directly affected. The lost areas would not break the habitats or affect the connectivity of the habitats in the vicinity of the project site. Therefore, fragmentation and isolation of the natural woodland and plantation</p>	<p>1) Nil</p>	<ul style="list-style-type: none"> <li>All measures identified in the EIA report remain applicable and will be implemented in the Proposed Scheme.</li> </ul>

Key EIA Assumptions relevant to Layout Design	Variations of Assumptions in the Proposed Scheme	Predicted Impact of the EIA Scheme	Variation of Impact in the Proposed Scheme	Recommended Measures
<p>confined the new niches to be built within the existing Lai Chi Yuen Cemetery and only minimal area (about 7.5m<sup>2</sup>) outside the cemetery boundary is required for the proposed barrier-free site access.</p>		<p>woodland are not anticipated from the land formation for the Project.</p> <p>2) The affected area is adjacent to the existing cemetery which is a developed area with frequent human disturbance, such that wildlife is not likely to be present in there.</p> <p>3) There were only a few individuals of common fauna species of high mobility using the area occasionally and transiently. Thus, it is considered that the severity of disturbance impacts to local wildlife species would be insignificant.</p> <p>4) Considering that the scale of the Project would be small, the potential spillage could be well-controlled by good site practices.</p> <p>5) Within the natural woodland habitat, one young <i>Aquilaria sinensis</i> (i.e. 0.02m DBH and 1.5m height) was found within the project site and would be subject to direct impact. With</p>	<p>2) Nil</p> <p>3) Nil</p> <p>4) Nil</p> <p>5) Nil</p>	

Key EIA Assumptions relevant to Layout Design	Variations of Assumptions in the Proposed Scheme	Predicted Impact of the EIA Scheme	Variation of Impact in the Proposed Scheme	Recommended Measures
<p><u>Operation Phase</u></p> <p>c) Potential sources of ecological impact would be related to the potential hill fire due to burning of joss paper and disturbance of surrounding habitats and associated wildlife due to the increased human activities / disturbance associated with the operation of the project (i.e. indirect impact).</p>	<p><u>Operation Phase</u></p> <p>c) Nil</p>	<p>the adoption of the recommended measures (e.g. transplanted and native tree and shrub planting as part of the landscaping proposals, the impacts would be minimized.</p> <p>6) With proper implementation of good site practices as specified in Section 8.7 of the EIA report, no significant adverse ecological impact would be anticipated from the indirect impacts during the construction phase.</p> <p>7) There is no other project in the vicinity of current project. Thus no cumulative impact would be anticipated.</p> <p><u>Operation Phase</u></p> <p>8) The level of disturbance (i.e. indirect impact) during the operation phase would be comparable to the existing condition. No significant adverse impact is therefore expected.</p> <p>9) With the implementation of the recommended mitigation</p>	<p>6) Nil</p> <p>7) Nil</p> <p><u>Operation Phase</u></p> <p>8) Nil</p> <p>9) Nil</p>	<p><u>Operation Phase</u></p> <ul style="list-style-type: none"> <li>All measures identified in the EIA report remain applicable and will be implemented in the Proposed Scheme.</li> </ul>

Key EIA Assumptions relevant to Layout Design	Variations of Assumptions in the Proposed Scheme	Predicted Impact of the EIA Scheme	Variation of Impact in the Proposed Scheme	Recommended Measures
		measures as specified in Section 8.7 of the EIA report, significant adverse direct and indirect ecological impacts would not be anticipated during operational phases.		
<b>Landscape and Visual</b>				
<u>Construction Phase</u>	<u>Construction Phase</u>	<u>Construction Phase</u>	<u>Construction Phase</u>	<u>Construction Phase</u>
<p>a) The sources of landscape impacts include the construction of the elevated platform and provision of niches and ancillary facilities; and the temporary works for the in-situ concrete casting, temporary stockpiling etc.</p> <p>b) The sources of visual impacts would include site formation work, construction of the site access and elevated platform and provision of niches and ancillary facilities, and the temporary works for the in-situ concrete casting, temporary stockpiling etc.</p> <p>c) Approximately 232.5m<sup>2</sup> of woodland vegetation within the Lai Chi Yuen Cemetery will be removed due to the construction of the elevated platform and the</p>	<p>a) Nil.</p> <p>b) Nil</p> <p>c) While the affected area of woodland vegetation remain unchanged, it is estimated that 24 trees will be felled as advised by the Project's</p>	<p>1) In consideration of the proposed felling of 30 numbers of existing trees and 1 number of young <i>Aquilaria sinensis</i> would be affected, the magnitude of landscape change for the vegetation with the Lai Chi Yuen Cemetery (i.e. LR2) is considered as intermediate.</p> <p>2) There would not be any landscape impact on other landscape resources apart from LR2.</p> <p>3) With the implementation of preservation of existing vegetation around the proposed platform and reinstatement of temporarily disturbed landscape areas, it is predicted that there would still be moderate residual landscape impact during construction</p>	<p>1) Although the number of proposed felled trees reduces from 30 to 24 in the Proposed Scheme as shown in <i>Appendix A</i>, the magnitude of landscape change for LR2 is considered as intermediate in consideration of the permanent loss of 24 trees.</p> <p>2) Nil</p> <p>3) Nil</p>	<ul style="list-style-type: none"> <li>All measures identified in the EIA report remain applicable and will be implemented in the Proposed Scheme.</li> </ul>



Key EIA Assumptions relevant to Layout Design	Variations of Assumptions in the Proposed Scheme	Predicted Impact of the EIA Scheme	Variation of Impact in the Proposed Scheme	Recommended Measures
<p>site access. It is estimated approximately 30 trees will be felled for the works.</p> <p>d) 1 young <i>Aquilaria sinensis</i> (i.e. 0.02m DBH and 1.5m height) will be affected by the Project and be transplanted where possible.</p> <p>e) Niches orientation faces north-east and south-west</p>	<p>Landscape Architect and presented in <i>Appendix A</i>, which is 20% less than that assumed in the EIA Scheme.</p> <p>d) Nil</p> <p>e) Niches orientation faces north-east, south-west and west. In comparison with the EIA Scheme, 6 additional compensatory trees would be provided on site along the south-western boundary of the platform with amenity planters as understory layer to screen out the niches.</p>	<p>phase.</p> <p>4) In consideration that the scale of work is small and compatible with the adjacent landscape context as it is a localised extension to the existing cemetery, the magnitude of change to the Mui Wo Coastal Upland and Hillside Landscape Character Area (LCA) is considered negligible. The resultant significance of impact on the LCA would be insubstantial.</p> <p>5) With the implementation of proposed mitigation measures, the residual landscape impact would remain insubstantial.</p> <p>6) The magnitude of visual change to VSR1 (i.e. visitors to the Cemetery) is intermediate in view of the short distance from the project site. The magnitude of visual change for VSR2 (i.e. hikers along Lantau Trail) and VSR3 (i.e. recreational users of Ngau Koo Wan Hill Court) are negligible as there is no direct view from these VSRs.</p>	<p>4) Given that the Proposed Scheme is still a localised extension to the existing cemetery, it is considered compatible with the adjacent landscape context as similar to the EIA Scheme. Therefore, the magnitude of change to the Mui Wo Coastal Upland and Hillside LCA is considered negligible, and the resultant significance of impact would be insubstantial.</p> <p>5) Nil</p> <p>6) Nil</p>	

Key EIA Assumptions relevant to Layout Design	Variations of Assumptions in the Proposed Scheme	Predicted Impact of the EIA Scheme	Variation of Impact in the Proposed Scheme	Recommended Measures
<p><u>Operation Phase</u></p> <p>f) The source of landscape and visual impacts would be limited to the operation of facilities at the Cemetery Extension.</p> <p>g) 6 trees of native species of heavy standard size will be compensated at the elevated platform as shown in Figure 9.4 of the approved EIA report and is re-provided in <i>Figure 3-1</i>. 24 trees of native species of heavy standard size with native shrubs</p>	<p><u>Operation Phase</u></p> <p>f) Nil</p> <p>g) It is estimated by the Project's Landscape Architect that 24 trees will be felled. While 12 numbers of <i>Podocarpus macrophyllus</i> of heavy standard size would be planted along the north-eastern and south-western boundary of the platform with</p>	<p>7) With the proposed mitigation measures, which include the preservation of existing trees, compensatory planting, control of night-time lighting glare, erection of screen hoarding in visually unobtrusive colour, management of construction activities and facilities, and reinstatement of temporarily disturbed landscape area, it is predicted that there would be slight residual visual impact during construction as there will be permanent loss of existing trees which are not able to be fully compensated.</p> <p><u>Operation Phase</u></p> <p>8) With implementation of the proposed mitigation measures (i.e. compensatory planting), there would still be slight residual landscape impact in day 1 and insubstantial residual landscape impact in year 10 of operation when the compensatory tree planting proposed becomes mature.</p>	<p>7) Nil</p> <p><u>Operation Phase</u></p> <p>8) In contrast with the provision of 6 compensatory trees on-site in the EIA Scheme, the Proposed Scheme is considered as an improvement with the provision of 12 compensatory trees on-site. Yet, there would still be slight residual landscape impact in day 1 and insubstantial residual landscape impact in year 10 of operation when the compensatory tree planting proposed becomes mature.</p>	<p><u>Operation Phase</u></p> <ul style="list-style-type: none"> <li>All measures identified in the EIA report remain applicable and will be implemented in the Proposed Scheme.</li> </ul>

Key EIA Assumptions relevant to Layout Design	Variations of Assumptions in the Proposed Scheme	Predicted Impact of the EIA Scheme	Variation of Impact in the Proposed Scheme	Recommended Measures
<p>as understory layer will be compensated within the boundary of the existing cemetery.</p>	<p>both native and exotic shrubs as understory layer as shown in <i>Figure 3-2</i> and <i>Appendix B</i>, at least 12 numbers of <i>Sterculia lanceolata</i> of heavy standard size would be planted within the boundary of the existing cemetery as shown in the indicative Tree Compensation Plan in <i>Appendix B</i> in accordance with DEVB TC(W) No. 7/2015.</p>	<p>9) In consideration that the Project is compatible with the adjacent landscape context, the magnitude of change to the Mui Wo Coastal Upland and Hillside LCA is considered negligible. The resultant significance of impact on LCA would be insubstantial.</p> <p>10) The magnitude of visual change to VSR1 (i.e. visitors to the Cemetery) is intermediate in view of the short distance from the project site. The magnitude of visual change for VSR2 (i.e. hikers along Lantau Trail) and VSR3 (i.e. recreational users of Ngau Koo Wan Hill Court) are negligible as there is no direct view from these VSRs.</p>	<p>9) Given that the Proposed Scheme is still a localised extension to the existing cemetery, it is considered compatible with the adjacent landscape context as similar to the EIA Scheme. Therefore, the magnitude of change to the Mui Wo Coastal Upland and Hillside LCA is considered negligible, and the resultant significance of impact would be insubstantial.</p> <p>10) The split-level design in the Proposed Scheme is considered as an enhancement of the EIA Scheme by reducing the massiveness of building structure as well as adapting with the existing topographic condition. Nevertheless, the magnitude of visual change to VSR1 remains intermediate in view of the short distance from the project site. The magnitude of visual change for VSR2 (i.e. hikers along Lantau Trail) and VSR3 (i.e. recreational users of Ngau Koo Wan Hill Court) remains negligible as there is no direct view from these VSRs.</p>	

Key EIA Assumptions relevant to Layout Design	Variations of Assumptions in the Proposed Scheme	Predicted Impact of the EIA Scheme	Variation of Impact in the Proposed Scheme	Recommended Measures
		11) With the implementation of mitigation measures, which include aesthetically pleasing design of above ground structures, amenity tree and shrub planting and screen planting to soften the structural columns of the elevated platform, it is predicted that the residual visual impact on the visitors to Lai Chi Yuen Cemetery would remain slight in day 1 and year 10 of the operation. Photomontages of the EIA Scheme are extracted from Figure 9.5 of the EIA report and presented in <i>Figure 3-3</i> .	11) Mitigation measures, including aesthetically pleasing design of above ground structures, amenity tree and shrub planting and screen planting to soften the concrete structure of the elevated platform, will continue to be provided in the Proposed Scheme. It is predicted that the residual visual impact on the visitors to Lai Chi Yuen Cemetery would remain slight in day 1 and year 10 of the operation. Photomontages of the Proposed Scheme are presented in <i>Figure 3-4</i> .	
<b>Environmental Monitoring and Audit</b>				
<u>Construction Phase</u>	<u>Construction Phase</u>	<u>Construction Phase</u>	<u>Construction Phase</u>	<u>Construction Phase</u>
a) Regular site inspection and audit at least once per week should be conducted on air quality, noise, water, and waste management aspects to check that the proposed mitigation measures are properly implemented and maintained.	a) Nil	1) N/A	1) N/A	<ul style="list-style-type: none"> <li>All mitigation measures identified in the EIA report remain applicable and will be audited in the Proposed Scheme.</li> </ul>
b) Implementation of the recommended ecological mitigation measures should be	b) Nil			

Key EIA Assumptions relevant to Layout Design	Variations of Assumptions in the Proposed Scheme	Predicted Impact of the EIA Scheme	Variation of Impact in the Proposed Scheme	Recommended Measures
<p>regularly inspected and audit monthly.</p> <p>c) Site inspections should be undertaken at least once every two weeks on landscape and visual aspects to check that the proposed mitigation measures are properly implemented and maintained.</p> <p>d) A detailed Vegetation Survey should be conducted by suitably qualified botanist / ecologist prior to commencement of any site clearance works.</p> <p>e) A Transplantation Proposal should be prepared by a qualified ecologist / botanist and submitted to and approved by AFCD prior to commencement of any works. The transplantation works should be supervised by the qualified botanist / horticulturist / Certified Arborist.</p> <p>f) A baseline review on the status of landscape resources (LR), landscape character within the works area and the visually</p>	<p>c) Nil</p> <p>d) Nil</p> <p>e) Nil</p> <p>f) Nil</p>			

Key EIA Assumptions relevant to Layout Design	Variations of Assumptions in the Proposed Scheme	Predicted Impact of the EIA Scheme	Variation of Impact in the Proposed Scheme	Recommended Measures
<p>sensitive receivers (VSRs) within the visual envelop shall be undertaken prior to commencement of construction works.</p> <p><u>Operation Phase</u></p> <p>g) To ensure that the noise impact associated with the fixed plant operations would comply with the noise standards, the specified sound power levels (i.e. Max SWL of 94dB(A)) should be implemented and refined by the Contractor as appropriate.</p> <p>h) No other EM&amp;A requirement are required.</p>	<p><u>Operation Phase</u></p> <p>g) Nil</p> <p>h) Nil</p>	<p><u>Operation Phase</u></p> <p>2) N/A</p>	<p><u>Operation Phase</u></p> <p>2) N/A</p>	<p><u>Operation Phase</u></p> <ul style="list-style-type: none"> <li>No EM&amp;A requirement for the operation of the Project is considered necessary as concluded in the EIA report.</li> </ul>

## 4 EVALUATION OF MATERIAL CHANGES

### 4.1 Definition of Material Changes

4.1.1 The environmental impact of a designated project is considered to be materially changed in the environmental performance requirements set out in the EIA report for the project may be exceeded or violated even with mitigation measure in place. The material change shall refer to significant changes only.

4.1.2 Under Section 6.1 of the EIAO-TM, changes under the following circumstances are regarded as material changes:

- A change to physical alignment, layout or design of the Project causing an environmental impact likely to affect existing or planned community, ecologically important areas or sites of cultural heritage;
- A physical change resulting in an increase in the extent of reclamation or dredging affecting water flow or quality likely to affect ecologically important areas, or disrupting sites of cultural heritage;
- An increase in pollution emissions or discharges or waste generation likely to violate guidelines or criteria in this technical memorandum without mitigation measures in place;
- An increase in throughput or scale of the project leading to physical additions or alterations that are likely to violate the guidelines or criteria in this technical memorandum without mitigation measures in place; or
- A change resulting in physical works that are likely to affect a rare, endangered or protected species, or an important ecological habitat, or a site of cultural heritage.

4.1.3 In view of the modification of layout design, the implications have been evaluated against the factors listed in Section 6 of the EIAO-TM to investigate if material changes will be triggered.

### 4.2 Verification

#### Changes to Physical Alignment, Layout or Design of the Project

4.2.1 There will be no change to the physical alignment of the Project.

4.2.2 Although the Project has slight modification of the layout and design in the Proposed Scheme, there will be no change of environmental impact to the existing or planned community, ecologically important areas or sites of cultural heritage as compared with that assessed in the EIA report as demonstrated in *Table 3-1*. It is therefore considered that the proposed variation will not constitute a material change.

Reclamation or Dredging

- 4.2.3 There will be no dredging or reclamation associated from the Proposed Scheme. It is therefore considered that the proposed variation will not constitute a material change.

Pollution Emissions or Discharges of Waste

- 4.2.4 There will be no increase in pollution emissions or discharges or waste generation from the Proposed Scheme that will induce environmental impact greater than that assessed in the EIA report or EP with mitigation measures in place as demonstrated in **Table 3-1**. The environmental review set out in **Table 3-1** indicates that no further mitigation measures are beyond that stipulated in the EIA report. The proposed variation will not cause adverse environmental impact or violate the guidelines or criteria in the EIAO-TM. It is therefore considered that the proposed variation will not constitute a material change.

Physical Additions or Alterations

- 4.2.5 There will be no increase in throughput or scale of the Project, and thus will not lead to physical additions or alterations that violate the guidelines or criteria in EIAO-TM. It is therefore considered that the proposed variation will not constitute a material change.

Rare, Endangered or Protected Species, Habitats and Cultural Heritage

- 4.2.6 Although the maximum excavation depth increases slightly in the Proposed Scheme, it will not affect any rare, endangered or protected species, or an important ecological habitat, or a site of cultural heritage, except the direct impact on the young *Aquilaria sinensis* as already identified and assessed in the EIA Report.
- 4.2.7 With the implementation of recommended mitigation measures, the proposed variation will not induce environmental impact greater than that assessed in the EIA Report. It is therefore considered that the proposed variation will not constitute a material change.

**4.3 Conclusion**

- 4.3.1 This ER justifies that the proposed modification of the layout design:
- does not constitute material change in the environmental impact of the Project as defined under EIAO; and
  - complies with the requirements described in the EIAO-TM.
- 4.3.2 If there are any deviations from the assumptions made in this ER that may result in adverse environmental impact, advice from the Environmental Assessment Group of EPD should be sought to confirm whether the change constitutes a material change in the Project or a variation to the EP will be needed.



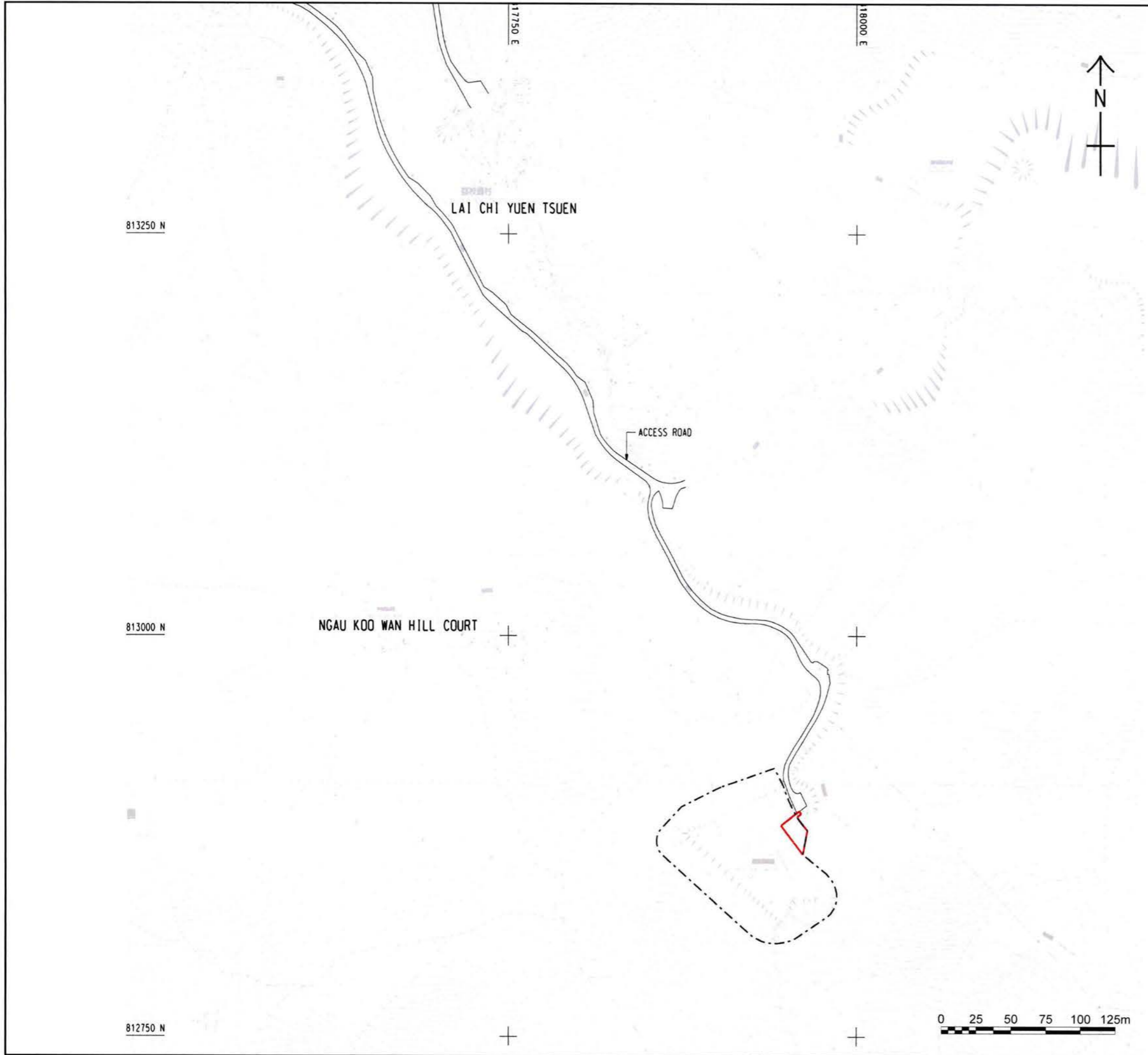
## 5 CONCLUSION

5.1.1 This ER Report is prepared to review the latest project design layout in comparison with the design layout in the approved EIA report, and evaluate the potential environmental impacts arising from the revised design of the Project.

5.1.2 Throughout the foregoing sections, this ER demonstrates:

- the predicted air quality impact from the Proposed Scheme is comparable with that assessed in the EIA Scheme;
- no adverse noise impact will arise from the Proposed Scheme with the implementation of the recommended mitigation measures specified in the approved EIA report;
- the predicted risk from the Proposed Scheme is comparable with that assessed in the EIA;
- no adverse water quality impact will arise from the Proposed Scheme with the implementation of the recommended mitigation measures specified in the approved EIA report;
- potential environmental impact associated with the handling and disposal of waste generated from the Proposed Scheme is comparable with that presented in the EIA;
- potential ecological impact associated with the Proposed Scheme will not violate the assessment result in the EIA;
- potential for landscape and visual impact associated with the Proposed Scheme is unlikely to be greater than that assessed in the EIA; and
- with implementation of the recommended mitigation measures specified in the approved EIA report, the overall predicted environmental impact from the Proposed Scheme is comparable to that assessed in the EIA;

5.1.3 Given that the potential environmental impacts arisen from the Proposed Scheme will be comparable to that presented and concluded in the approved EIA, with proper implementation of the specified management controls and proposed measures, the proposed modification will not result in adverse environmental impact that are described in Section 6.1 of the EIAO-TM, and therefore is not regarded as a material change in the Project under the EIAO.



- NOTES:
- Boundary of Existing Lai Chi Yuen Cemetery
  - Project site

Consultant



**Allied Environmental Consultants Limited**  
ACOUSTICIANS & ENVIRONMENTAL ENGINEERS

Project No.: 1626

File Name:

Project:  
Mui Wo Lai Chi Yuen Extension

Drawing Title:  
Location Plan

Drawing No: <b>Figure 2-1</b>	Revision: <b>0</b>
Scale: <b>As shown</b>	Date: <b>Dec 2018</b>

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812890 N

817940 E

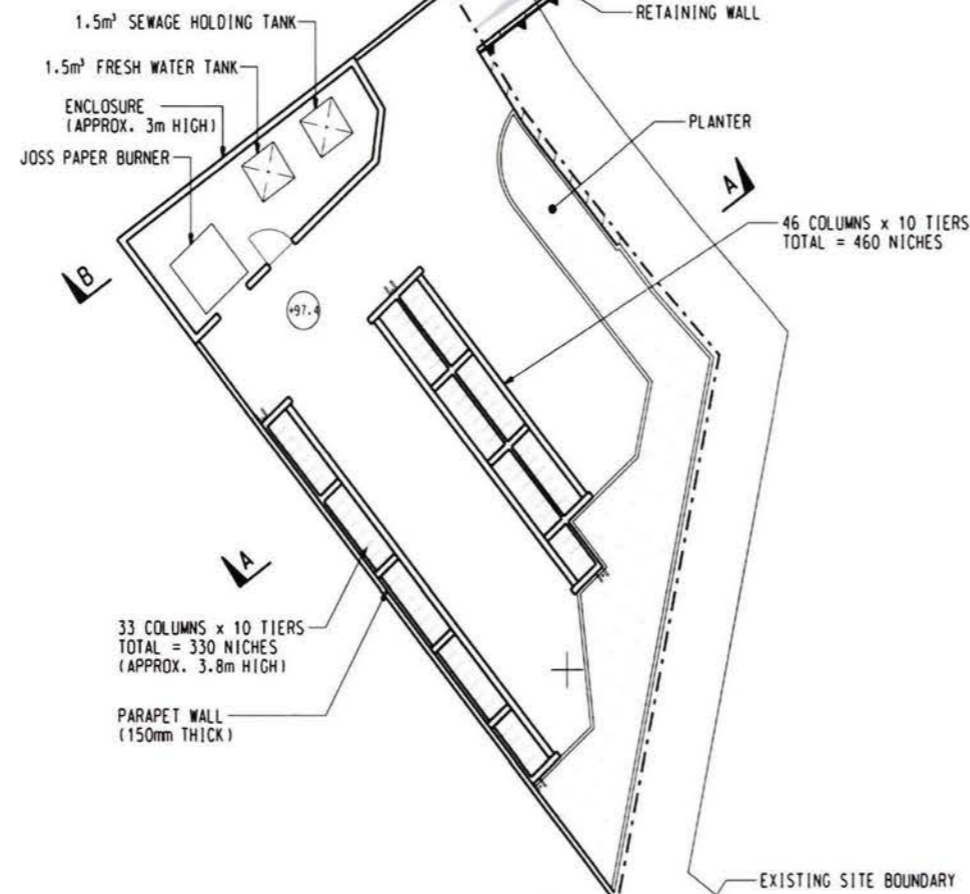
817960 E

817980 E

812870 N

817940 E

817980 E



PLAN  
SCALE 1 : 200

NOTES:

Extracted from EIA Report  
Figure 2.2

Consultant:



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Project No.: 1626

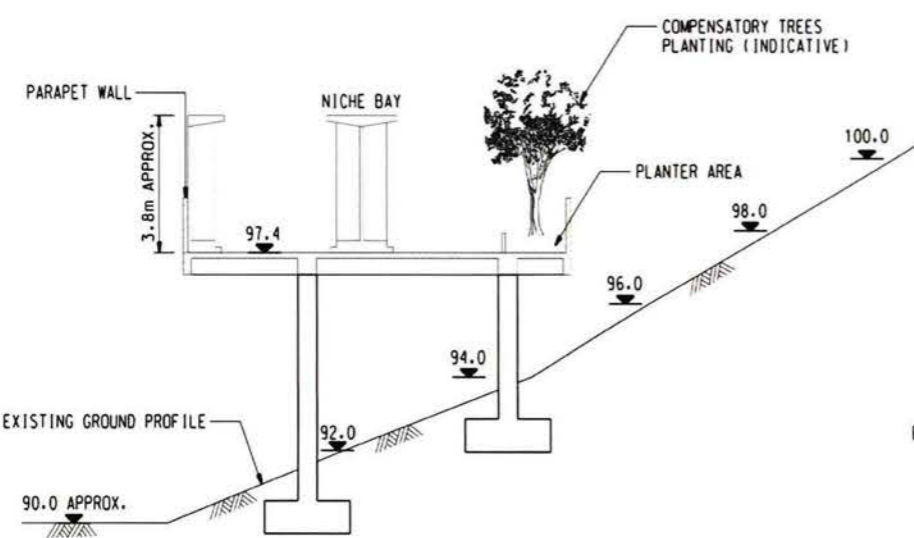
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Project:  
Mui Wo Lai Chi Yuen Extension

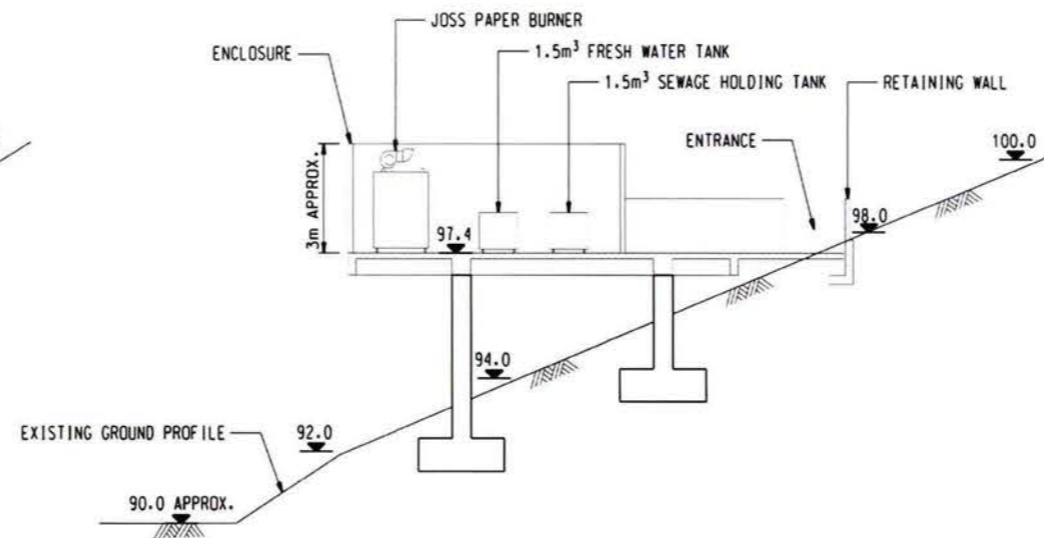
Drawing Title:  
Layout Plan of EIA Scheme

Drawing No:	Figure 2-2	Revision:	0
Scale:	As shown	Date:	Dec 2018

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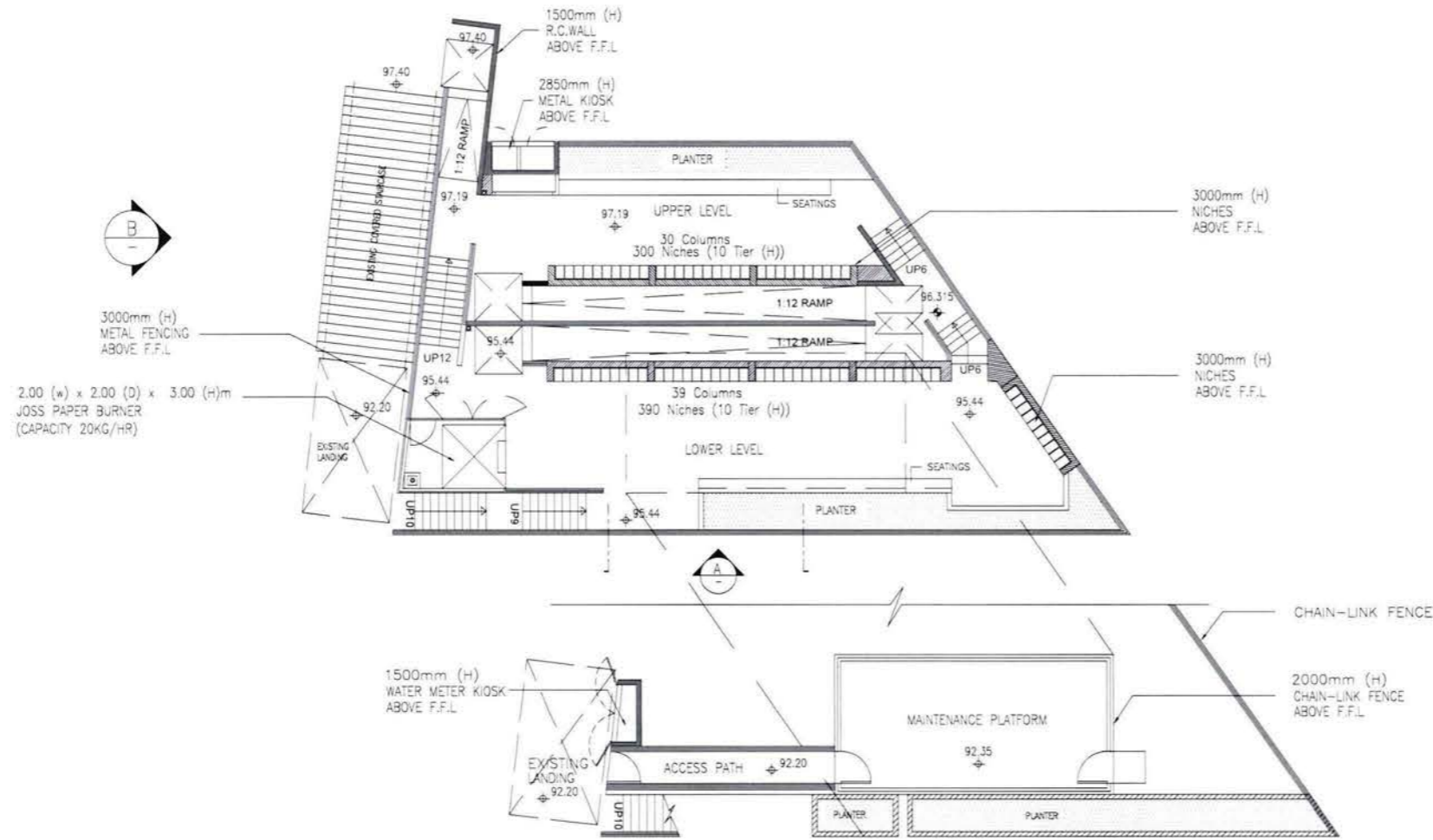


SECTION A - A  
SCALE 1 : 200



SECTION B - B  
SCALE 1 : 200

SITE AREA: 225m<sup>2</sup> (WITHIN EXISTING SITE BOUNDARY)  
7.5m<sup>2</sup> (OUTSIDE EXISTING SITE BOUNDARY)  
232.5m<sup>2</sup> (TOTAL)



NOTES

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ACOUSTICIANS & ENVIRONMENTAL ENGINEERS

Project No.: 1626

File Name

Project

Mui Wo Lai Chi Yuen Extension

Drawing Title

Layout Plan of Proposed Scheme

Drawing No.

Figure 2-3

Revision

0

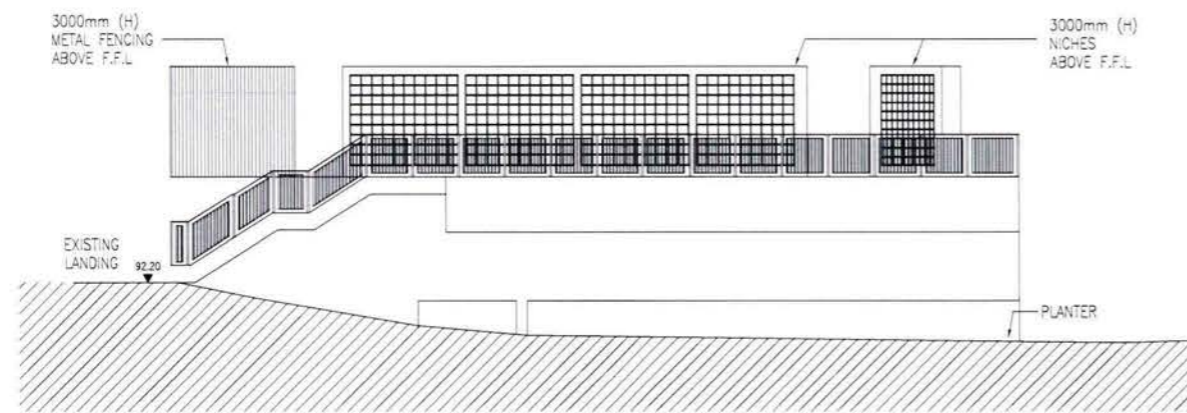
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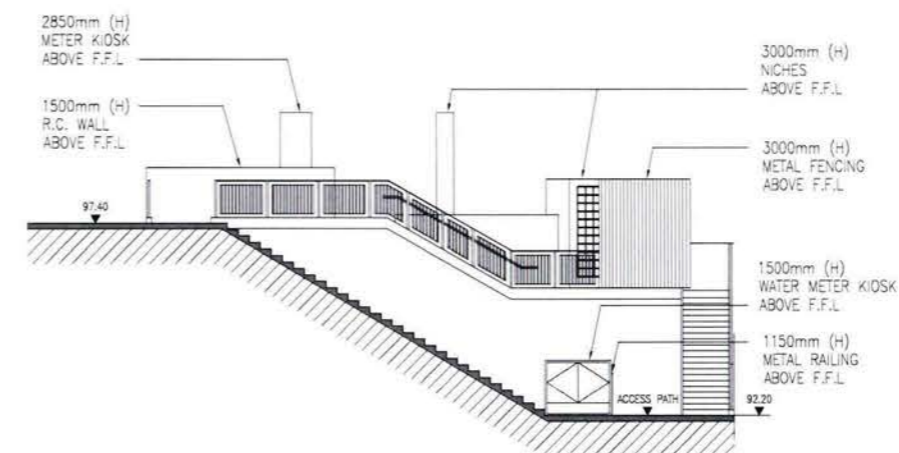
Date

Dec 2018

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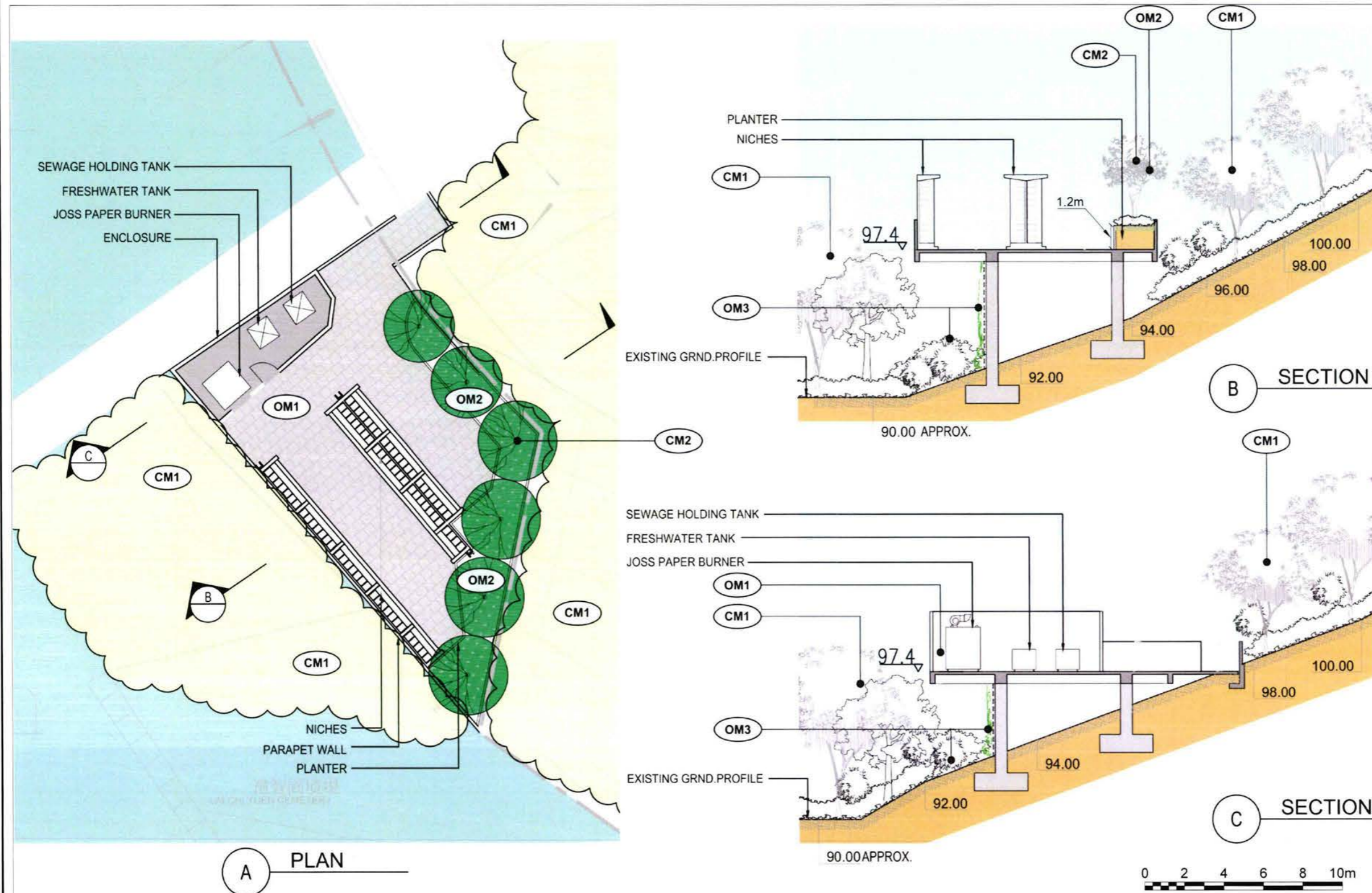
ELEVATION - A



ELEVATION - B

NOTES :

Extracted from EIA Report  
Figure 9.4



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Project No. : 1626

File Name :

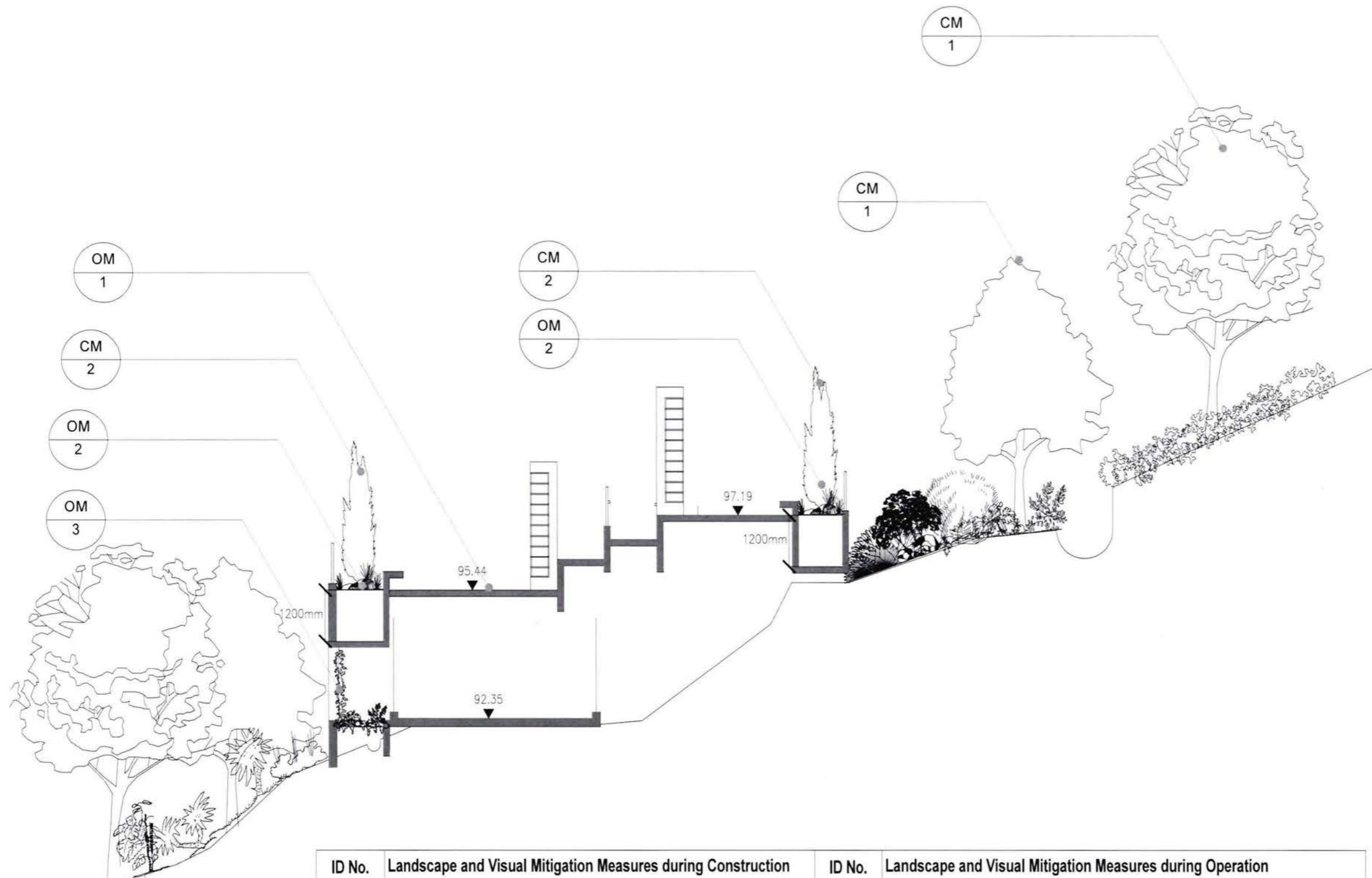
Project :  
Mui Wo Lai Chi Yuen Extension

Drawing Title :  
On-site Landscape and Visual Mitigation Measures of EIA Scheme

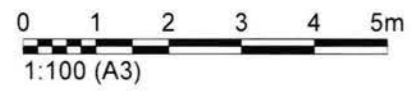
Drawing No. : Figure 3-1      Revision : 1  
 Scale : As shown      Date : Feb 2019

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ID NO.	LANDSCAPE AND VISUAL MITIGATION MEASURES DURING CONSTRUCTION	ID NO.	LANDSCAPE AND VISUAL MITIGATION MEASURES DURING OPERATION
CM1	PRESERVATION OF EXISTING VEGETATION	OM1	AESTHETICALLY PLEASING DESIGN OF ABOVEGROUND STRUCTURES
CM2	COMPENSATORY TREE PLANTING	OM2	AMENITY TREE AND SHRUB PLANTING
CM3	CONTROL OF NIGHT-TIME LIGHTING GLARE	OM3	SCREEN PLANTING TO SOFTEN THE STRUCTURAL COLUMNS OF THE ELEVATED PLATFORM
CM4	ERECTION OF SCREEN HOARDING IN VISUALLY UNOBTUSIVE COLOUR		
CM5	MANAGEMENT OF CONSTRUCTION ACTIVITIES AND FACILITIES		
CM6	REINSTATEMENT OF TEMPORARILY DISTURBED LANDSCAPE AREAS		



ID No.	Landscape and Visual Mitigation Measures during Construction	ID No.	Landscape and Visual Mitigation Measures during Operation
CM1	Preservation of Existing Vegetation	OM1	Aesthetically Pleasing Design of Aboveground Structures
CM2	Compensatory Tree Planting	OM2	Amenity Tree and Shrub Planting
CM3	Control of Night-time Lighting Glare	OM3	Screen Planting to Soften the Structural Columns of the Elevated Platform
CM4	Erection of Screen Hoarding to Visually Unobtrusive Colour		
CM5	Management of Construction Activities and Facilities		
CM6	Reinstatement of Temporary Disturbed Landscape Areas		



NOTES:

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ACousticians & Environmental Engineers

Project No. 1626

File Name:

Project: Mui Wo Lai Chi Yuen Extension

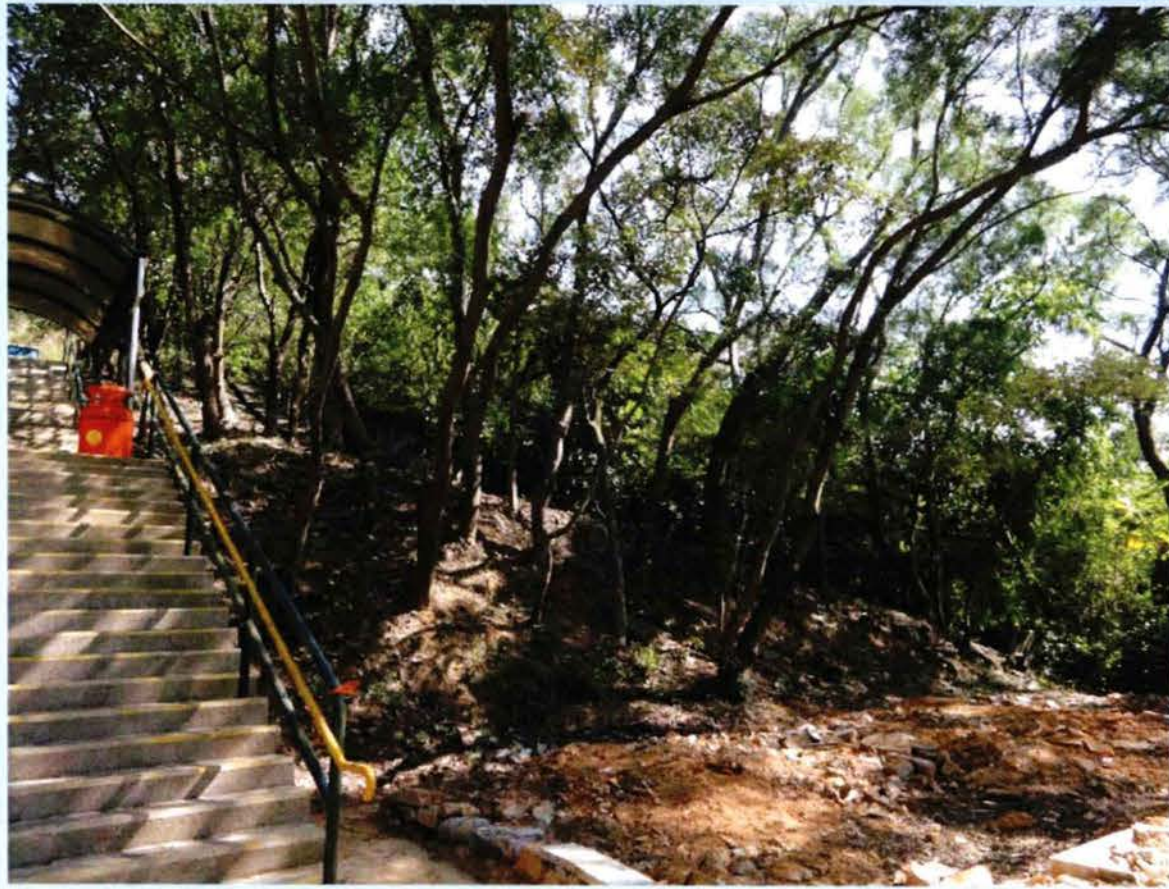
Drawing Title: On-site Landscape and Visual Mitigation Measures of Proposed Scheme

Drawing No. Figure 3-2      Revision 1

Scale: As shown      Date: Feb 2019

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Existing Condition



Day 1 without Mitigation Measure



Day 1 with Mitigation Measure



10 Years with Mitigation Measure



NOTES:

Extracted from EIA Report Figure 9.5

Consultant



Allied Environmental Consultants Limited  
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Project No.: 1626

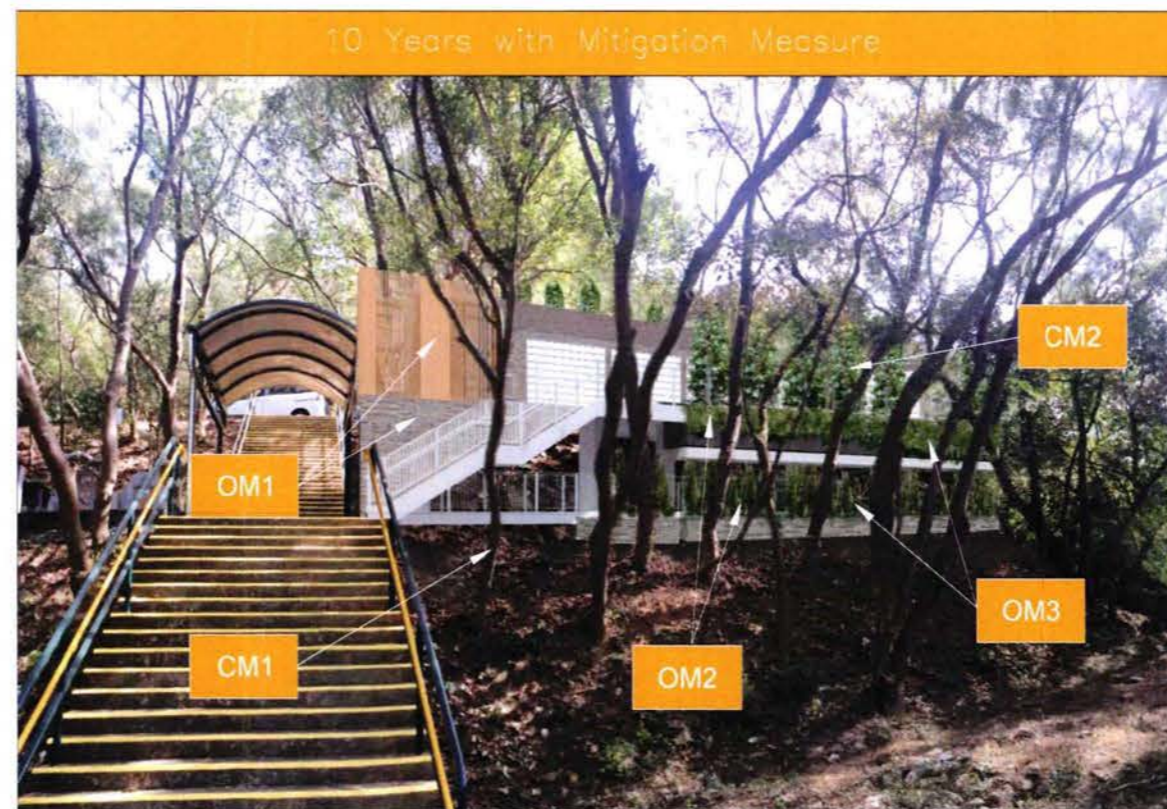
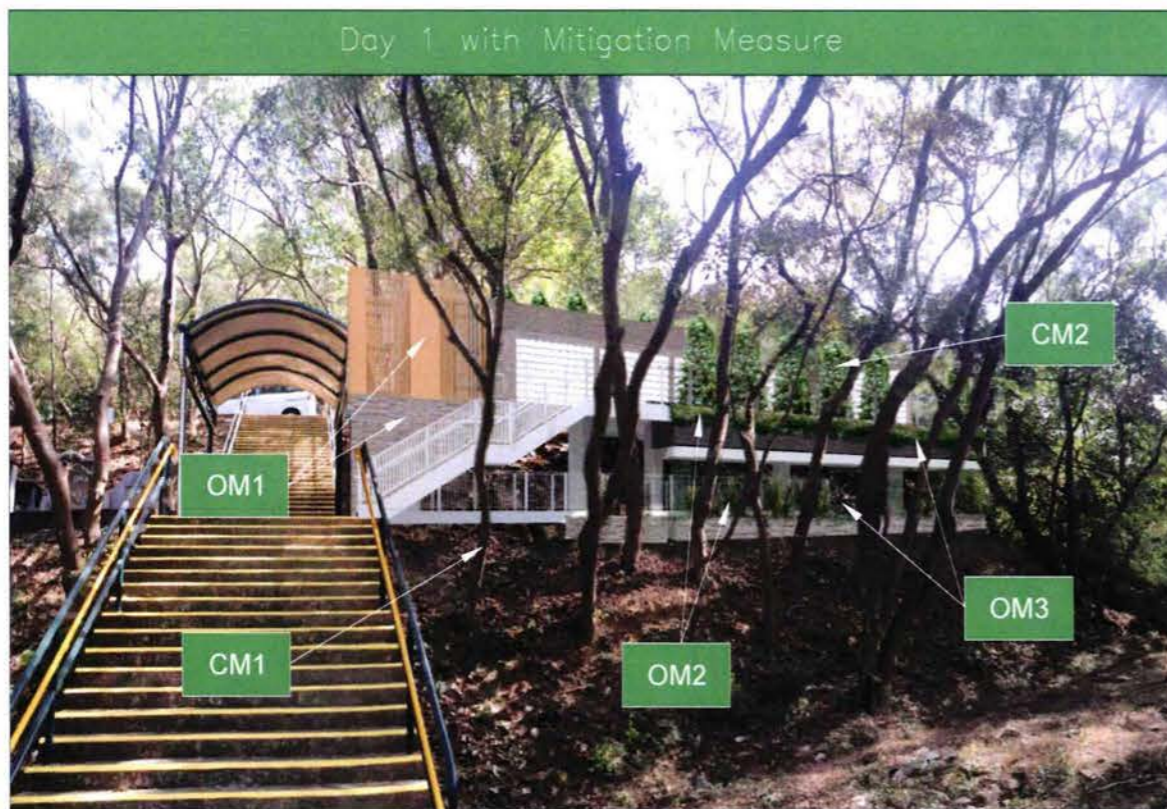
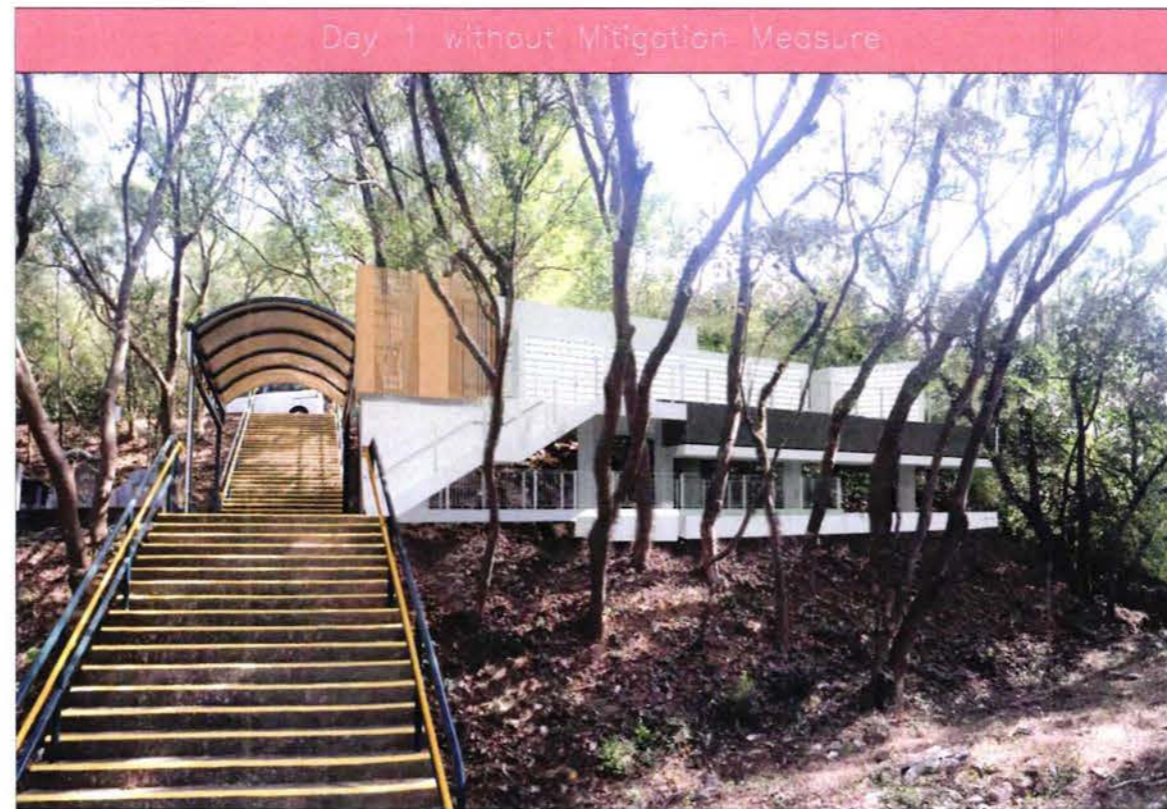
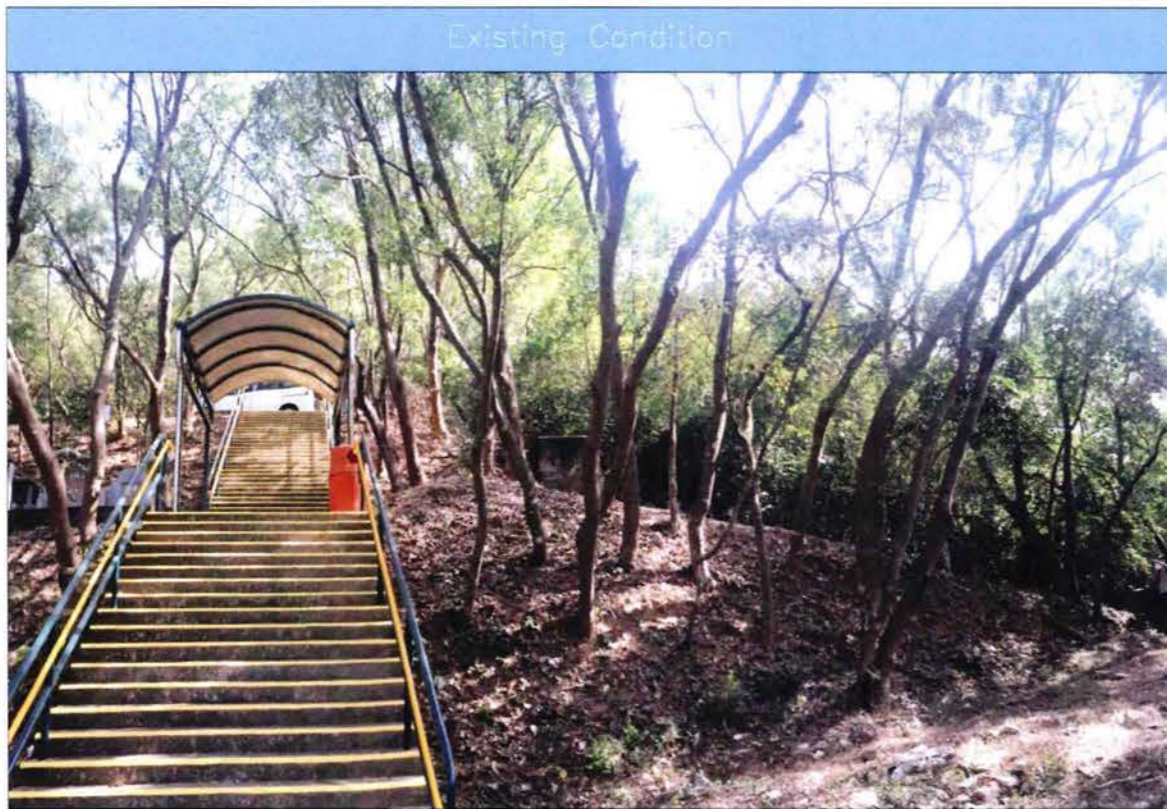
File Name:

Project:  
Mui Wo Lai Chi Yuen Extension

Drawing Title:  
Photomontage of EIA Scheme

Drawing No:	Figure 3-3	Revision:	0
Scale:	As shown	Date:	Dec 2018

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Project No. 1626

File Name:

Project:  
 Mui Wo Lai Chi Yuen Extension

Drawing Title:  
 Photomontage of Proposed Scheme

Drawing No.:	Figure 3-4	Revision:	0
Scale:	As shown	Date:	Dec 2018

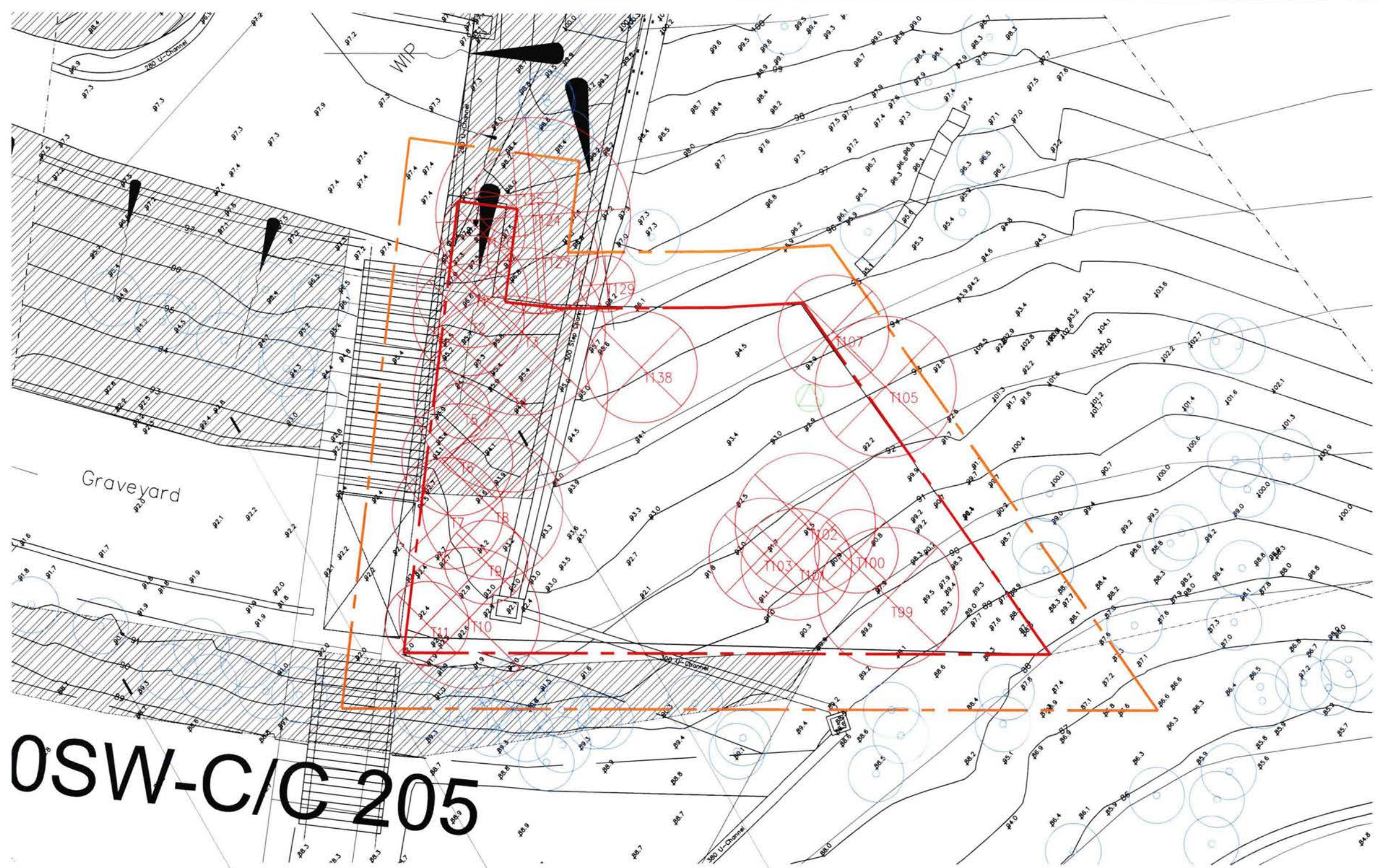
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**Appendix A**

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Latest Tree Survey Plan



# 0SW-C/C 205

10SW-C/C 205

10SW-C/C 202

10SW-C/C 203

1

## TREE TREATMENT PLAN

SCALE 1:150 @ A3 PAPER

### LEGEND

CODE	DESCRIPTION
	EXISTING TREE TO BE FELLED
	EXISTING TREE TO BE RETAINED
	Aquilaria sinensis
	REGISTERED SLOPE
	WORKING BOUNDARY
	TREE SURVEY BOUNDARY



GENERAL NOTES :  
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Rev.	Date	Description	Initial

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ARCHITECTS Planners and Designers

QUANTITY SURVEYOR CONSULTANT  
利比 RLB|Rider Levett Bucknall

STRUCTURAL DESIGN CONSULTANT  
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1111 1111 1111 1111 1111 1111 1111 1111 1111 1111

E & M CONSULTANT  
**匯智** 匯智電訊有限公司  
Talent, Mechanical & Electrical Engineers Ltd.

LANDSCAPE DESIGN CONSULTANT  
**earthasia** limited

Design	Name	Signed	Date
	DT		APR 18
	DT		APR 18
	SSL		APR 18
	RL		APR 18

Contract No.

File No.

Project No. 262ZX

Contract  
MJ WO LAI CH YUEN EXTENSION

Drawing Title  
TREE TREATMENT PLAN

Drawing No.  
PME/2281/TT-1.1

Office  
PROJECT MANAGEMENT BRANCH

Scale  
1:150

Revision  
-

**AS** ARCHITECTURAL SERVICES DEPARTMENT

**Appendix B**



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Indicative Tree Compensation Plans of the Proposed Scheme

**PROPOSED PLANTING SCHEDULE**

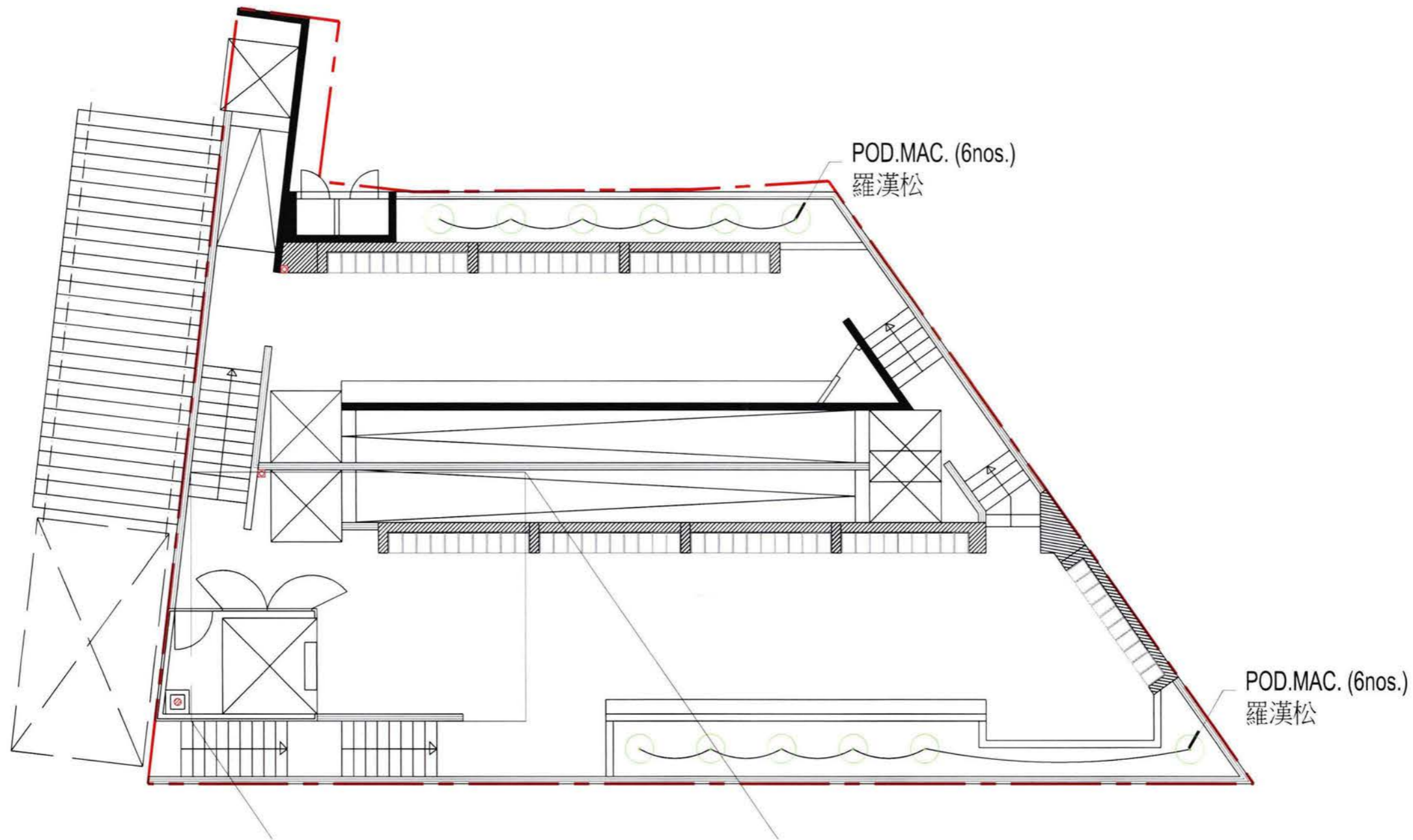
Code	Species		Height (mm)	Spread (mm)	DBH (mm)	Spacing (mm)	Quantity (Nos.)	Remarks
	Scientific Name	Chinese Name						
POD.MAC.	<i>Podocarpus macrophyllus</i>	羅漢松	3500	600	75	NA	12	HEAVY STANDARD STRAIGHT TRUNK

**LEGEND**

CODE	DESCRIPTION
	PROPOSED COMPENSATORY TREE
	WORKING BOUNDARY

GENERAL NOTES :  
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NOTES :



1 COMPENSATORY TREE PLANTING PLAN SCALE 1:100 @ A3 PAPER

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-	-	-	-

- ARCHITECTURAL DESIGN CONSULTANT  
**PERCY THOMAS**  
ARCHITECTS Planners and Designers
- QUANTITY SURVEYOR CONSULTANT  
利比 RLB|Rider Levett Bucknall
- STRUCTURAL DESIGN CONSULTANT  
**APT** APT Consulting Engineers Ltd.  
10/F, 111, Nathan Road, Kowloon, Hong Kong
- E & M CONSULTANT  
**talent** 漢智 機電顧問有限公司  
Talent Mechanical & Electrical Engineers Ltd.
- LANDSCAPE DESIGN CONSULTANT  
**earth&limit**

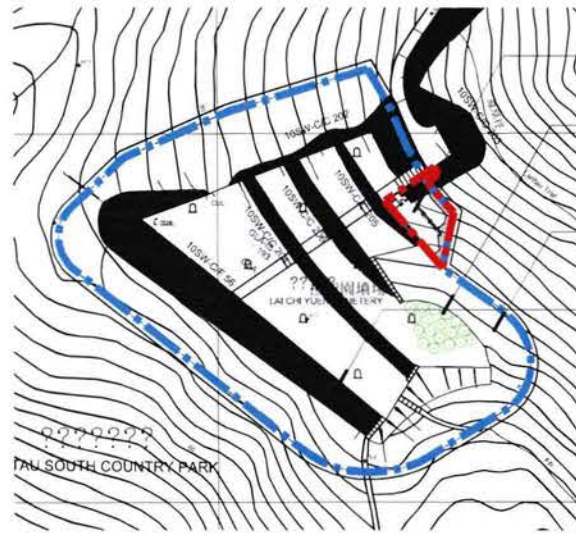
	Name	Signed	Date
Designed	DT		APR 18
Drawn	DT		APR 18
Checked	SSL		APR 18
Approved	RL		APR 18

Contract No.  
File No.  
Project No. 262ZX  
Contract  
MJJ WO LAI CH YUEN EXTENSION

Drawing Title  
COMPENSATORY TREE PLANTING PLAN 01

Drawing No.	Scale
FMB/262X/CP-1.01	1:100
Office	Revision
PROJECT MANAGEMENT BRANCH	-





1 KEY PLAN SCALE N.T.S.

- WORKING SITE
- RECEPTOR SITE OF THE COMPENSATORY TREE
- EXISTING SITE BOUNDARY
- REGISTERED SLOPE

LEGEND

CODE	DESCRIPTION
	PROPOSED COMPENSATORY TREE
	REGISTERED SLOPE
	WORKING BOUNDARY
	EXISTING SITE BOUNDARY

PROPOSED PLANTING SCHEDULE

Code	Species		Height (mm)	Spread (mm)	DBH (mm)	Spacing (mm)	Quantity (Nos.)	Remarks
	Scientific Name	Chinese Name						
STE.LAN.	<i>Sterculia lanceolata Cav.</i>	假蘋婆	4000	3000	110	NA	18	HEAVY STANDARD STRAIGHT TRUNK



2 COMPENSATORY TREE PLANTING PLAN SCALE 1:200 @ A3 PAPER

STE.LAN. (18nos.)



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**APT** APT Engineers, Consultant Ltd.  
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	Name	Signed	Date
Designed	DT		APR 18
Drawn	DT		APR 18
Checked	SSL		APR 18
Approved	RL		APR 18

Contract No.  
File No.  
Project No. 262ZX  
Contract  
MJJ WO LAM CH YUEN EXTENSION

Drawing Title  
COMPENSATORY TREE PLANTING PLAN 02

Drawing No.	Scale
FME/E261/CP-1.02	1:200
Office	Revision
PROJECT MANAGEMENT BRANCH	-

