FORM
5

ECTS)83

Application No. :
Reference No. :
(For official use) [redacted]

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)
Special Duties (Works) Division, Civil Engineering Office, Civil Engineering and Development Department of the Government of the Hong Kong Special Administration Region

[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 :
[redacted]

B4. Name of Contact Person : [redacted]

B5. Position of Contact Person : [redacted]

B6. Telephone No. : [redacted]

B7. Fax No. : [redacted]

B8. E-mail Address : (if any) [redacted]

PART C DETAILS OF CURRENT ENVIRONMENTAL PERMIT

C1. Name of the Current Environmental Permit Holder :
Civil Engineering and Development Department

C2. Application No. of the Current Environmental Permit : AEP-660/2025

C3. The Current Environmental Permit was Issued in : month / year
0 7 2 0 2 5

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.

RECEIVED
18 JUN 2026
EIAO Register Office, E.P.D.

☐ 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 :
Part B (Description of Designated Project) – Scale and Scope of Designated Project (Item ii): (ii) Construction of approximately 110 m in length wave wall in the form of floating breakwater; Figure 1	Revise Item (ii) as follow: (ii) Construction of approximately **<u>80 m</u>** in length wave wall in the form of floating breakwater; Figure 1 is updated to incorporate the proposed design changes.	Design changes were made to the Project during the detailed design stage (refer to Section 2 of the Environmental Review Report (ERR)). The proposed variations are to incorporate the proposed design changes.	An environmental review has been conducted for the proposed variations. Based on the review, the proposed variations would not result in adverse environmental impacts with the implementation of the recommended mitigation measures in the approved EIA report as concluded in Section 10.1.1 of the ERR.	Based on the review, the proposed variations would not result in adverse environmental impacts with the implementation of the recommended mitigation measures in the approved EIA report as concluded in Section 10.1.1 of the ERR.	The environmental performance requirements set out in the approved EIA report will not be affected by the proposed variations. Please refer to Section 9 of the ERR for details.	Additional measures were proposed for the handling and disposal of yard waste (refer to Section 4.3 of the ERR). The proposed variations would not result in adverse environmental impacts with the implementation of the recommended mitigation measures in the approved EIA report as concluded in Section 10.1.1 of the ERR.

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 of Applicant | Full Name in Block Letters | Position

SPECIAL DUTIES (WORKS) - CEDD - ※土木工程拓展署－專責事務(工程)※ CEDD

on behalf of Civil Engineering and Development Department | 18 June 2026

Company Name and Chop (as appropriate) | 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.

土木工程拓展署
Civil Engineering and Development Department
Civil Engineering Office

Agreement No. CE 80/2021 (CE)
Expansion of Aberdeen Typhoon Shelter – Investigation, Design and Construction

Environmental Review Report

June 2026

AECOM ASIA COMPANY LIMITED

Disclaimer:

*This Report is prepared for the **Civil Engineering and Development Department (CEDD)** and is given for its sole benefit in relation to and pursuant to **Agreement No. CE 80/2021 (CE) Expansion of Aberdeen Typhoon Shelter – Investigation, Design and Construction** and may not be disclosed to, quoted to or relied upon by any person other than CEDD without our prior written consent. No person (other than **CEDD**) into whose possession a copy of this report comes may rely on this report without our express written consent and **CEDD** may not rely on it for any purpose other than as described above.*

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1 INTRODUCTION

1.1 Background

1.1.1 The Government of the Hong Kong Special Administrative Region (The Government) is taking forward the Invigorating Island South (IIS) initiative announced in the 2020 Policy Address to develop the Southern District into a place full of vibrancy, vigour, and velocity for people to work, live, explore new ideas and have fun. One of the key projects under the IIS initiative is to explore the feasibility of expanding the Aberdeen Typhoon Shelter (ATS) and enhancing the vessel berthing area.

1.1.2 In the 2021 Policy Address, the Government announced to commence an investigation and design study in 2022 for the expansion of the ATS to create additional vessel berthing area. To this end, the Civil Engineering and Development Department (CEDD) engaged AECOM as the Consultant in April 2022 to undertake the Assignment "CE 80/2021 – Expansion of Aberdeen Typhoon Shelter – Investigation, Design and Construction" (hereinafter referred to as "the Project"). The Project aims to address the strong regional demand for sheltered vessel space in Hong Kong Island South. Beyond providing essential berthing, the expansion of the ATS also aims to foster tourism, leisure, and recreation opportunities in the Southern District and explore the possibilities for future marina development.

1.1.3 The Expansion of Aberdeen Typhoon Shelter comprises the Designated Project (DP) items under Part I, Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO):

- Item C.1 - Reclamation works (including associated dredging works) more than 5 hectares (ha) in size.
- Item C.2(1)(a) - Reclamation works (including associated dredging works) that are of more than 1 ha in size, and a boundary of which is less than 500 metre (m) from the nearest boundary of an existing or planned specified area (coastal protection area) that is wholly or partly situated on or over any foreshore and sea-bed.
- Item C.2(1)(b) - Reclamation works (including associated dredging works) that are of more than 1 ha in size, and a boundary of which is less than 200 m from the nearest boundary of an existing or planned specified area (coastal protection area) that is not wholly or partly situated on or over any foreshore and sea-bed;
- Item C.3(a) - Reclamation works resulting in more than 5% decrease in cross sectional area calculated on the basis of 0.0 mPD in a sea channel;
- Item C.4 - A breakwater more than 1 km in length or a breakwater extending into a tidal flushing channel by more than 30% of channel width;
- Item C.5 - A typhoon shelter designed to provide moorings for more than 30 vessels;
- Item C.12 (1)(b) - A dredging operation that is less than 500 m from the nearest boundary of an existing or planned specified area (coastal protection area) that is wholly or partly situated on or over any foreshore and sea-bed; and

- Item C.12 (1)(c) - A dredging operation that is less than 200 m from the nearest boundary of an existing specified area (coastal protection area) that is not wholly or partly situated on or over any foreshore and sea-bed.

1.1.4 An Environmental Impact Assessment (EIA) study for the Project was conducted and the *EIA Report for the Expansion of Aberdeen Typhoon Shelter* (EIAO Register No.: AEIAR-267/2025) (hereinafter referred to as the approved EIA Report) was approved by the Director of Environmental Protection (DEP) on 3 July 2025 under the EIAO. Following the approval of the EIA Report, an Environmental Permit (EP) (EP No.: EP-660/2025) was granted on 4 July 2025 for the construction and operation of the Project.

1.1.5 Subsequent to the approved EIA Report and EP above, the design of the Project has changed. The proposed design changes are discussed in **Section 2**.

1.2 Purpose of this Report

1.2.1 This Environmental Review Report (ERR) has been prepared to identify and assess the potential environmental issues pertinent to the proposed design changes of the Project and to confirm the compliance of relevant environmental standards. The purpose of this ERR is to demonstrate that (i) there is no material change to the environmental impact of the Project due to the proposed design changes with the mitigation measures in place; and (ii) the Project, with the proposed design changes, complies with the requirements described in the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM).

1.2.2 This report will form part of the submission to the Environmental Protection Department (EPD) for an application of a variation to the current EP (EP-660/2025) for Expansion of ATS.

1.3 Report Structure

1.3.1 The remainder of the report is organised as follows:

- **Section 2** presents the details of the proposed design changes and identifies the potential environmental impacts associated with such changes.
- **Sections 3 to 7** present the evaluation of potential environmental impacts due to the proposed design changes and proposed additional mitigation measures (if required) for compliance with the requirements in the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM).
- **Section 8** identifies any additional environmental monitoring and audit (EM&A) requirements).
- **Section 9** reviews whether the proposed design changes constitute a material change to the environmental impact of the Project.
- **Section 10** presents the conclusions of this ERR proposed variations in EP.

2 PROPOSED DESIGN CHANGES

2.1 Proposed Changes

2.1.1 The proposed design changes are given in

Table 2.1 List of Proposed Design Changes with Justifications

Proposed Design Changes	Justification
The Project boundary is slightly amended at the Tai Shue Wan (TSW) connection point of proposed land access to cover the footprint of a proposed landing platform. The revised Project boundary will increase the site area by approximately 0.05 ha. For the proposed landing platform, the key components of the construction works are as follows: • Pre-bored H-piling as the foundation; • Construction of precast/in-situ columns and deck; and • Removal of one existing tree at the west side of landing platform with associated transplant or compensation.	After liaison with the land lot owner (Ocean Park Corporation (OPC)), a landing platform is proposed to enhance connectivity to the proposed eastern breakwater.
The configurations and design of the proposed eastern and western breakwaters are revised slightly, with a total area increase of approximately 4000 m^2, whilst the length of the proposed breakwaters remain unchanged.	Through the development of detailed design, the optimised design of breakwater foundation is refined to achieve cost-effective and the landfall is strengthened to accommodate the effect of climate change.
The length of the proposed wave wall in the form of floating breakwater is shortened slightly from about 110 m to approximately 80 m.	To optimise the design according to the wave performance, cost-effectiveness and environment impact, the length of proposed wave wall in the form of floating breakwater is refined.

2.1.2 The above proposed design changes are shown in **Figure 2.1**.

2.2 Construction Works and Programme

2.2.1 For the construction of the proposed landing platform, one pre-bored H piling machine would be required.

2.2.2 The maximum number of vessels utilised per day as assumed in the approved EIA Report (i.e. 24 vessels (10 barges (not propelled by engines), 10 dump lighters and 4 tug boats) remain the same under the proposed design changes.

2.2.3 Considering the construction works of proposed landing platform could be carried out concurrently with other major works, the tentative construction programme for major construction works in the approved EIA report remain valid.

2.3 Environmental Aspects of Concern

2.3.1 A preliminary review of potential environmental impacts associated with the proposed design changes during construction and operation phases has been conducted and discussed below. The potential environmental impacts that require further review/assessment in this ERR have been identified and summarised in **Table 2.2**.

Construction Phase

2.3.2 The construction works at the proposed landing platform may potentially cause impacts on water quality, waste management implications and landscape and visual. Furthermore, the changes in the proposed breakwaters configurations and length of the proposed wave wall in the form of floating breakwater may affect the surrounding hydrodynamic conditions and water quality, marine ecological habitats, fishing ground/habitats and landscape and visual.

2.3.3 Further desktop review / qualitative assessment will be conducted in the aspects of water quality, waste management implications, ecology, fisheries and landscape and visual for the construction phase in this ERR.

2.3.4 For the construction air quality, the construction of the proposed landing platform is small in scale , requiring only one additional Powered Mechanical Equipment (PME) (a pre-bored H piling machine) and adopting pre-cast construction method. As such, no additional construction air quality impact is anticipated during the construction phase. For the other proposed design changes presented in Table 2.1, there will be no change in the shortest distance between the Air Sensitive Receiver and the Project Boundary, the construction methods or the number of vessels, construction vehicles and PMEs to be deployed. The associated construction dust impacts have already been assessed in the approved EIA Report. With the proper implementation of the good site practices and mitigation measures specified in Sections 3.8.1 to 3.8.3 of the approved EIA Report, no adverse air quality impacts from the proposed design changes are expected. In addition, construction dust monitoring will be carried out as part of the Environmental Monitoring and Audit (EM&A) programme to ensure compliance with the relevant air quality criteria.

2.3.5 Referring to Section 4.6.3 of the approved EIA Report, the nearest Noise Sensitive Receiver (NSR), N1 (Tower 1, Larvotto), is located about 290 m from the closest works. As most other Project works are also beyond 300 m, adverse construction noise impacts are not anticipated. In addition, according to Condition 2.11 of the EP, a Construction Noise Management Plan (CNMP) shall be deposited no later than 2 months before the commencement of construction works of the Project. All associated changes will be reflected in the CNMP for assessment.

2.3.6 Based on the approved EIA Report, no built heritage or rock carvings have been identified within the Project boundary and 300 m assessment area, which fully covers the increased site area at the TSW connection point for the proposed landing platform. Furthermore, the proposed design changes are not expected to cause any additional impacts on other identified items with no status reported in the approved EIA report (namely the existing breakwaters and the No. 198 light beacon and associated landing facilities). For archaeology, the proposed design changes will not alter the extent of the marine portion of the Project area and the Marine Archaeological Investigation (MAI) conducted under the approved EIA Report fully covers the increased landfall areas of the breakwaters and the proposed wave wall in the form of floating breakwater. Based on the MAI, the findings within the assessment area are of low archaeological interest, and the identified object (SC017) within the assessment area are still about 100 m away from the construction works. As precautionary measures recommended in the approved EIA Report, the Antiquities and Monuments Office (AMO) will be informed immediately if marine archaeological materials having certain to significant values are found during the course of construction works of the Project.

2.3.7 Based on the above, no further impacts on air quality, noise and cultural heritage resources due to the proposed design changes are anticipated during construction phase and further review/assessment are considered not necessary.

Operation Phase

2.3.8 Under operation phase, the changes in the proposed breakwaters configurations and length of the proposed wave wall in the form of floating breakwater may affect surrounding hydrodynamic conditions and water quality, marine ecological habitats, fishing habitats and landscape and visual. No change in mooring capacity of the ATS expansion area is anticipated. Further desktop review / qualitative assessment will be conducted in the aspects of water quality, ecology, fisheries and landscape and visual in this ERR.

2.3.9 For air quality, the proposed landing platform will not be used by any vessels and will only be used for emergency vehicles; therefore, no additional marine / road traffic emissions will be generated, and no associated air quality impacts are anticipated. Similarly, adverse marine traffic noise impacts are not expected.

2.3.10 For waste management implications, the waste types generated from the Project during operation phase included floating refuse and general refuse from vessel users. As the proposed design changes will not alter the extent of the marine portion of the Project area and the sheltered space of the ATS expansion area remains the same, the amount of waste estimated in the approved EIA Report will also remain the same. Therefore, no additional waste management implications impacts are anticipated during operation phase as a result of the proposed design changes.

2.3.11 For cultural heritage, referring to **Section 2.3.6** above, no further impacts on cultural heritage resources due to the proposed design changes are anticipated.

2.3.12 Given the above, further desktop review / qualitative assessment in the aspects of air quality, noise, waste management implications and cultural heritage for operation phase are considered not necessary.

Table 2.2 Summary of Potential Environmental Impact Associated with the Proposed Design Changes

Potential Environmental Impact	Construction Phase	Operation Phase
Air Quality Impact	✗	✗
Noise Impact	✗	✗
Water Quality Impact	✓	✓
Waste Management Implications	✓	✗
Ecological Impact	✓	✓
Fisheries Impact	✓	✓
Landscape and Visual Impact	✓	✓
Cultural Heritage Impact	✗	✗

Notes:
✓ – Potential impact to be further reviewed in this ERR.
✗ – Potential impact associated with the proposed design changes is not expected.

2.4 Concurrent Projects and Cumulative Impacts

2.4.1 There are committed or planned concurrent marine-based projects within the Western Buffer and Southern Water Control Zones (WCZs) as listed in the approved EIA Report but it was concluded at the time that the concurrent marine-based projects are not anticipated to result in adverse cumulative impacts. Regarding the proposed marina development at the expansion area of the ATS, given that the project information was not available, assessment of cumulative environmental impacts with the proposed marina is not included in the approved EIA Report but would be addressed in the statutory EIA study of the proposed marina. Based on the latest information, the above findings in the approved EIA Report remain valid for the assessment under this ERR.

2.4.2 For land-based projects, the Adventure Zone development within Ocean Park is considered a concurrent project. The associated environmental impacts and required mitigation measures will be addressed separately by the respective project proponent under the EIAO process. As detailed information on the development is not available at the time of reporting, the assessment of cumulative environmental impacts with the Adventure Zone development is not included in this ERR. Nevertheless, given that the construction works under this Project are mainly marine-based with only small-scale land-based works, and that appropriate mitigation measures for the Adventure Zone development are expected to be formulated under the EIAO process, no unacceptable cumulative impacts are anticipated. Details of the Adventure Zone development are shown in **Table 2.3**.

Table 2.3 Details of the Adventure Zone Development

Project	Reference Document (Register No. in EIAO)	Project Descriptions	Construction Programme	
			Start	Complete
Adventure Zone Development	N/A	A new adventure-themed development with attractions and facilities installation within Ocean Park.	N/A	2028[1]

Notes:
N/A – Not available
1. The Adventure Zone development is expected to open to the public in 2028 (source: *https://www.oceanpark.com.hk/en/press-release/ocean-park-embarks-on-adventure-zone-development-with-shun-tak-holdings-and-aj-hackett).*

3 WATER QUALITY IMPACT

3.1 Introduction

3.1.1 This section identifies and evaluates the potential water quality impact due to the proposed design changes. Recommendations for mitigation measures would be provided, where necessary, to minimise the identified water quality impacts to an acceptable level.

3.2 Assessment Area and Water Sensitive Receivers

3.2.1 There would be no changes to the assessment area (areas cover the Western Buffer WCZ and Southern WCZ as designated under the WPCO) and representative water sensitive receivers (WSRs) as identified in the approved EIA Report. Key WSRs that would potentially be affected by the Project are listed in **Table 3.1** and their locations are illustrated in **Figure 3.1**.

Table 3.1 Water Sensitive Receivers (WSRs) within the Assessment Area

Water Sensitive Receiver (WSR)	ID	Approximate Distance to Project Boundary (m)
Typhoon Shelter		
Aberdeen Typhoon Shelter	-	adjacent to Project boundary
Gazetted beach		
Deep Water Bay	B1	2,864
Repulse Bay	B2	3,141
Middle Bay	B3	3,199
South Bay	B4	3,224
Chung Hom Kok	B5	3,918
Fish Culture Zone		
Lo Tik Wan	FCZ1	3,398
Sok Kwu Wan	FCZ2	3,821
Corals		
Ap Lei Chau	CR1	1,443
Luk Chau	CR2	2,561
Wong Chuk Kok	CR3	1,828
Round Island	CR4	2,948
Deep Water Bay	CR5	2,300
Near Ocean Park Pumping Station	CR6	1,591
Sham Shui Kok	CR7	352
South of Tai Shue Wan	CR8	within Project boundary
Tai Shue Wan	CR9	within Project boundary
WSD Flushing Water Intake		
Seawater Intake for Brick Hill Salt Water Pumping Station	WSD1	435
Seawater Intake for Ap Lei Chau Salt Water Pumping Station	WSD2	330
Cooling Water Intake		
Wah Fu Estate	C1	2,761

Water Sensitive Receiver (WSR)	ID	Approximate Distance to Project Boundary (m)
Seawater Intake		
Ocean Park	S1	1,682
Other WSRs		
Secondary Contact Subzone		partial area within Project boundary
Coastal Protection Area (CPA)		partial area within Project boundary

3.3 Identification and Evaluation of Environmental Impacts

Construction Phase

3.3.1 Potential sources of water quality impacts during construction phase are summarised below:

- Loss of fines and contaminants into the receiving waters associated with the marine construction works;
- Wastewater from general construction activities;
- Construction site runoff;
- Sewage from construction workforce;
- Accidental spillage of chemicals;
- Shortening of existing western breakwater; and
- Floating refuse accumulation.

3.3.2 Construction of the proposed landing platform would only involve land-based construction works. Potential water quality impacts associated with wastewater from general construction activities, construction site runoff, sewage effluent from construction workforce, accidental spillage of chemicals, shortening of existing western breakwater, and floating refuse and debris are expected to be the same as that assessed in the approved EIA Report as these construction activities would remain unchanged. The EIA findings on the potential water quality impact associated with these construction works are considered still valid.

Potential Impact from Marine Construction Works

3.3.3 There would be no change to the construction method nor the recommended dredging rates of the proposed breakwaters, proposed wave wall in the form of floating breakwater and proposed land access. As stated in **Section 2**, there would be a change in landfall configurations of the proposed eastern and western breakwaters (slightly increase in footprint of the landfall). By reviewing the proposed landfall locations in the original (Appendix 5.1 of the approved EIA Report) and proposed designs (as illustrated in **Figure 2.1**), the dredging locations for the proposed landfall would still be covered in the same model grid cells (approximately 75 m) of the Hong Kong Delft3D Flexible Mesh (HK-DFM) Model. It is considered that the worst-case construction scenario (i.e. Scenario C1 with three dredging activities [one grab

dredger at caisson area of proposed western breakwater, one grab dredger at caisson area of proposed eastern breakwater, and one grab dredger at landfall location of proposed eastern / western breakwater, two filling activities for sand blanket [one dumb lighter for proposed western and one dumb lighter for proposed eastern breakwater] and two DCM installation process [one DCM barge for proposed western breakwater and one DCM barge for proposed eastern breakwater] carrying out at the same time) adopted in the approved EIA Report is still the worst-case scenario for the Project with the change in landfall configuration as shown in **Figure 2.1.** Given the worst-case construction scenario remains valid, no additional impact to WSR is anticipated. It is therefore considered that the EIA findings and the recommended mitigation measures on the potential water quality impact associated with marine construction works are still valid and no adverse water quality impact due to marine-based construction of the Project is therefore anticipated.

Operation Phase

3.3.4 Potential sources of water quality impact associated with the proposed design changes during operation phase are summarised below:

- Change in flow regime that may cause adverse hydrodynamic and water quality impacts to the WSRs within the assessment area;
- Floating refuse accumulation;
- Marine vessel discharges; and
- non-point source surface runoff.

3.3.5 Similar to the approved EIA Report, the potential impacts from floating refuse accumulation could be mitigated by regular refuse scavenging. There would be no change to the planning usage of the Project as stated in the approved EIA Report (i.e. to accommodate the anticipated demand from pleasure vessels in Hong Kong). Potential water quality impacts associated with floating refuse accumulation and marine vessel discharges are expected to be the same as that assessed in the approved EIA Report and the findings are considered still valid.

Change in Hydrodynamic and Water Quality

3.3.6 The presence of the proposed breakwaters and wave wall in the form of floating breakwater, as well as the change in water depth have already been incorporated into the modelling exercise (Scenario O2) conducted under the approved EIA Report. The length of the proposed wave wall would be slightly shortened (from 110 m to 80 m) and its orientation would be slightly adjusted, which is expected to induce less tidal flushing impact than that predicted in the approved EIA Report. There would be an increase in footprint extent of the landfalls. In view of the small increment in footprint extent of the landfalls (as compared to the extent of the proposed breakwaters) and the landfalls are located close proximity to the existing coastline, changes in hydrodynamic and flushing capacity in the assessment area are limited. The EIA findings on the potential water quality impact associated with the change in hydrodynamic regime are therefore considered still valid and no adverse hydrodynamic and water quality impacts are expected.

Surface Runoff

3.3.7 According to **Section 2**, the paved area would be increased due to the increase in footprint of the landfalls but reduced due to shortening the length of the proposed wave wall. No additional paved area would be induced from the proposed landing platform (on the existing paved area). Considering the overall change in paved area is small as compared to the scale of the Project, the approved EIA findings and recommended mitigation measures associated with the potential water quality impact from surface runoff are considered still valid.

3.4 Mitigation Measures of Environmental Impacts

Construction Phase

3.4.1 The mitigation measures and good site practices recommended in the approved EIA Report for marine construction works are considered still valid. No additional mitigation measures are required for marine construction works.

3.4.2 As the EIA findings on the potential water quality impact associated with the land-based construction works are still valid (also applicable for construction of the proposed landing platform) as discussed in **Section 3.3.2**, the recommended mitigation measures in the approved EIA Report are considered still valid. No additional mitigation measures are required for the land-based construction works.

Operation Phase

3.4.3 The mitigation measures recommended in the approved EIA Report are considered still valid. No additional mitigation measures are required for operation phase.

3.5 Environmental Monitoring and Audit Requirements

3.5.1 As discussed in **Sections 3.3** and **3.4**, the approved EIA findings and recommended mitigation measures are considered still valid, water quality monitoring proposed in the standalone EM&A Manual associated with the approved EIA Report are considered still valid.

3.6 Conclusion

3.6.1 There would be no change to the WSRs and assessment methodology as adopted in the approved EIA Report. A review on the potential water quality impacts due to the proposed design changes has been conducted and concluded that the findings of the approved EIA Report and EM&A requirements are considered still valid. No additional mitigation measures nor environmental monitoring or auditing are required.

4 WASTE MANAGEMENT IMPLICATIONS

4.1 Introduction

4.1.1 This section presents a review of the findings and recommendations of waste management in the approved EIA Report, taking into account the proposed design changes, for the construction phase.

4.2 Identification and Evaluation of Waste Management Implications

4.2.1 During the construction phase, waste types generated by the construction activities of the Project would include construction and demolition (C&D) materials from general construction works, construction of proposed landing platform and shortening of existing breakwater, dredged sediments from dredging works, general refuse from workforce and chemical waste from maintenance of construction plant and equipment. Floating refuse may also be trapped and accumulated along the shoreline and breakwaters. In view of the proposed design changes, a review of the waste generation during the construction phase has been conducted and the findings are presented below.

Construction and Demolition Materials

4.2.2 It was estimated in the approved EIA Report that the total quantity of C&D materials to be generated would be approximately 25,000 m^3 with about 24,000 m^3 inert C&D materials and 1,000 m^3 of non-inert C&D materials. Considering the enlarged landfall and the new landing platform (including the removal of one existing tree) under the proposed design changes, a total of approximately 25,050 m^3 C&D materials, comprised of 24,050 m^3 inert and 1,000 m^3 non-inert C&D materials, would be generated. In comparison with the estimates in the approved EIA Report, there would be a minor increase (approximately 50 m^3) in inert C&D materials while the quantity of non-inert C&D materials remains similar due to the proposed changes.

4.2.3 Similar to the approved EIA Report, the inert C&D materials would be reused on site with surplus delivered to Public Fill Reception Facility (PFRF) for beneficial reuse in other projects, while the non-inert C&D material would be reused or recycled whenever possible prior to disposal of at the West New Territories (WENT) Landfill. It is estimated that approximately 22,450 m^3 of inert C&D materials would be reused in the Project and 1,600 m^3 of surplus inert C&D materials would be delivered to PFRF for beneficial reuse in other projects. According to the approved EIA Report, a maximum of about 2 barge trips per day will be sufficient to deliver the surplus C&D materials to PFRF, while a maximum of one barge trip and/or one truck trip per day provides sufficient capacity for the disposal of non-inert C&D materials to WENT Landfill. The removal of the existing tree for the new landing platform may generate small amount (about 1 m^3) of non-inert C&D materials (yard waste). Yard waste would be sent to the Yard Waste Recycling Centre in Y·PARK for recycling prior to disposal at WENT Landfill. Given the small quantities, a total of 1 truck trip to Y·PARK would be sufficient for the Project. The truck route would run directly from ATS via Shum Wan Road, Nam Long Shan Road, Wong Chuk Hang Road, Route 1, Route 5, Route 3, Tuen Mun Road, Wong Chu Road, Lung Mun Road and Lung Kwu Tan Road, Nim Wan Road.

4.2.4 The increased volume of inert C&D materials due to the proposed design changes (i.e. approximately 50 m^3) will be reused or recycled and therefore is not expected to change the frequency of barges/trucks involved. For yard waste, given the small quantities and that only one truck trip to Y·PARK would be required, adverse environmental impacts are not expected due to the transportation of the waste.

4.2.5 According to the approved EIA Report, with the implementation of proper management for C&D materials and good site practices, no adverse environmental impacts (including potential hazard, air and odour emissions, noise and wastewater discharges) and public transport impact due to handling and disposal of C&D materials arising from the Project would be anticipated. Considering the increase in C&D materials generation due to the proposed changes is limited, the findings in the approved EIA Report are considered to remain valid. For yard waste, additional mitigation measures are proposed and discussed in **Sections 4.3.2** and **4.3.3**.

Dredged Sediments

4.2.6 It was estimated in the approved EIA Report that the total volume of sediment generated is approximately 241,263 m^3, with about 198,855 m^3 suitable for Type 1 – Open Sea Disposal (i.e. Category L sediment) and 42,408 m^3 suitable for Type 1 – Open Sea Disposal (Dedicated Sites) (i.e. Category M sediment that passed the biological screening) with reference to the *Environment, Transport and Works Bureau Technical Circular (Works) No. 34/2002 – Management of Dredged/Excavated Sediment* (ETWB TCW No. 34/2002).

4.2.7 The updated layout plan and dredging extent under the proposed design changes are shown in **Figure 4.1**. Considering the slightly reduced dredging extent from the latest DCM design and the revised proposed breakwater configurations under the proposed design changes, approximately 241,070 m^3 of sediment is expected to be generated. According to paragraph 4.2.1 of the *Project Administration Handbook for Civil Engineering Works* (PAH), about 214,670 m^3 of these sediment will be suitable for Type 1 – Open Sea Disposal (i.e. Category L sediment) while 26,400 m^3 will be suitable for Type 2 – Confined Marine Disposal (i.e. Category M sediment). A comparison of the estimated dredged sediment quantities generated in the approved EIA Report and with the proposed design changes are summarised in **Table 4.1** below. Detailed calculation of dredged sediment quantities are presented in **Appendix 4.1**.

Table 4.1 Comparison of Estimated Sediment Quantities Reported in the Approved EIA Report and with the Proposed Design Changes

Disposal Option (Sediment Category Identified)	Estimated Volume (m^3)		Changes in Estimated Volume (m^3)
	Approved EIA Report	With Proposed Design Changes	
Type 1 – Open Sea Disposal (Category L Sediment)	198,855	214,670	**+15,815**
Type 1 – Open Sea Disposal (Dedicated Site) / Type 2 – Confined Marine Disposal (Category M Sediment)*	42,408	26,400	**-16,008**
Type 3 – Special Treatment/Disposal	0	0	**0**
Total	241,263	241,070	**-193**

* According to paragraph 4.2.1 of PAH, all Category M sediment falls under Type 2 – Confined Marine Disposal.

4.2.8 As shown in **Table 4.1**, the proposed design changes are expected to slightly reduce the total estimated sediment quantities by about 193 m^3 as compared to the approved EIA Report. In respect to the sediment categories, the amount of uncontaminated Category L sediment generated is expected to increase by about 15,815 m^3 whereas the amount of Category M sediment is anticipated to decrease by about 16,008 m^3 due to the proposed design changes. Similar to the approved EIA Report, beneficial reuse of Category L sediment will be considered before disposal. Any surplus Category L sediment and Category M sediment will be disposed of at marine disposal site(s) allocated by the Marine Fill Committee (MFC). For Category L sediment (Type 1 – Open Sea Disposal), the proposed transportation routing will follow the approved EIA Report, which would be via East Lamma Channel, West Lamma Fairway and South Shek Kwu Chau Fairway (for South Cheung Chau) and via East Lamma Channel, south of Hong Kong Island and Tathong Channel (for East of Ninepin). For Category M sediment, due to adherence to the updated guideline (i.e. paragraph 4.2.1 of the PAH), the sediment would now fall under Type 2 – Confined Marine Disposal. For Type 2 – Confined Marine Disposal, the typical disposal site is East Sha Chau. Subject to EPD/CEDD agreement, the potential transportation routing would be via East Lamma Channel, Western Fairway, Ma Wan Fairway/Kap Shui Mun Fairway, Ha Pang Fairway, Castle Peak Fairway and Urmston Road Fairway. Nevertheless, the maximum number of 3 barge trips per day to handle the dredged sediment to the designated marine disposal areas during construction phase, as estimated in the approved EIA Report, will remain unchanged.

4.2.9 According to the approved EIA Report, no adverse waste management implications are anticipated if the recommended mitigation measures are implemented. Given the minor change in total estimated sediment volume and the unchanged maximum barge trip frequency, the findings in the approved EIA Report remain valid. No additional mitigation measures are required.

Chemical Waste and General/Floating Refuses

4.2.10 The quantities of chemical waste, general refuse and floating refuse generated with the proposed design changes are expected to be similar to those estimated in the approved EIA Report. Provided that these wastes are handled, transported and disposed of according to the mitigation measures recommended in the approved EIA

Report, adverse environmental impacts during the construction phase are not expected. No additional mitigation measures are therefore required.

4.3 Mitigation of Adverse Environmental Impacts

4.3.1 Referring to **Section 4.2**, with the implementation of the recommended mitigation measures in the approved EIA Report, no adverse waste management implications are anticipated.

4.3.2 For yard waste, Y·PARK mainly receives 6m long or below tree trunks and its attached tree branches, twigs and leaves. To minimise the generation of yard waste, the Project Proponent shall:

- Segregate various types of yard waste and shred wood to facilitate reuse and recycling;
- Reuse yard waste on-site for a variety of purposes (e.g., decomposition and composting, recreational and decorative uses, and mulching in planting areas, etc.); and
- Identify recycling options (e.g. delivery to Y·PARK) for yard waste that cannot be directly reused on-site.

4.3.3 Where yard waste generation is unavoidable, sorting of yard waste for recycling and reuse on-site should always be the priority. Yard waste shall be separated from C&D material to facilitate recycling, such as delivery them to Y·PARK so as to minimise the quantity of waste to be disposed at landfill site. The Contractor should be responsible for cutting and shredding the yard waste in order to meet the collection requirement of the recycling outlet for processing. Disposal of yard waste directly at landfills should only be regarded as the last resort, when no alternatives are available.

4.4 Environmental Monitoring and Audit Requirements

4.4.1 As recommended in the approved EIA Report, the waste arisings generated during the construction activities should be audited regularly at least once per week by the Environmental Team (ET) to determine if wastes are being managed in accordance with approved procedures. The audits should look at all aspects of on-site waste management practices including waste generation, storage, recycling, transport and disposal. Apart from site inspections, documents including licenses, permits, disposal and recycling records should be reviewed and audited for compliance with the legislation of the recommended good site practice and other waste management mitigation measures.

4.4.2 A Waste Management Plan (WMP), as a part of the Environmental Management Plan (EMP), should be prepared in accordance with *ETWB TCW No.19/2005* and submitted to the Engineer for approval. The recommended mitigation measures should form the basis of the WMP. The monitoring and auditing requirement stated in *ETWB TCW No.19/2005* should be followed with regard to the management of C&D materials.

4.4.3 The EM&A requirements recommended in the approved EIA Report are considered valid for the proposed design changes. No additional EM&A requirements are considered necessary.

4.5 Conclusion

4.5.1 The main waste types to be generated during the construction phase for the proposed design changes include C&D materials, dredged sediments, chemical waste, general refuse and floating refuse. The removal of the existing tree for the new landing platform may generate a small amount of yard waste and additional mitigation measures have been recommended for the handling and disposal of this waste. Provided that the waste is handled, transported and disposed of according to the mitigation measures recommended in the approved EIA Report and this ERR, adverse environmental impacts during the construction phase are not expected. The findings of the approved EIA Report under construction phase remain valid with the proposed design changes and no additional EM&A requirements are considered necessary.

5 ECOLOGICAL IMPACT

5.1 Introduction

5.1.1 This section presents a review of the findings and recommendations of the ecological impact assessment in the approved EIA Report associated with the proposed design changes of the Project.

5.2 Assessment Methodology

5.2.1 The Project boundary has been slightly amended as discussed in **Section 2.1** above, which remains thoroughly covered by the approved EIA Report. This study has reviewed the ecological baseline, ecological impact assessment, proposed mitigation measures and environmental monitoring and audit requirements, in particular on those related to proposed works. The aim of this study is to evaluate the potential ecological impacts arising from the design changes and to ascertain whether the proposed mitigation measures and environmental monitoring and auditing measures remain relevant in addressing these impacts. Additional mitigation measures and adjustments to the monitoring and audit program are suggested where deemed necessary.

5.3 Review of Ecological Baseline Information

5.3.1 Desktop review of the ecological baseline information identified in the approved EIA Report regarding the updated Project boundary has been carried out based on the latest information available. The assessment area remains unchanged to cover Western Buffer WCZ and Southern WCZ, with no recognised sites of conservation importance identified within the assessment area. As water quality impacts are anticipated to be localised within the Project site, the assessment would focus on the area within and adjacent to the Project boundary.

5.3.2 The Project has identified four habitat types comprising intertidal habitat (i.e. artificial seawall, sandy shore, rocky shore) and subtidal habitats under the approved EIA Report, which are considered of very low to low ecological value within the Project boundary. The amendment of the Project boundary mainly comprises of inclusion of the landside TSW connection point of proposed land access, which is an extension of the existing seawall assessed under the approved EIA Report. The remaining Project boundary remains unchanged, and no additional habitat type is identified compared to the approved EIA Report.

5.3.3 Given that marine habitat within the Project boundary remains unchanged, the ecological resources with the Project boundary remain the same, including 32 coral species of conservation importance recorded from the assessment area in previous and current surveys. Most of the species identified were common species found in Hong Kong such as *Favites abdita* and *Oulastrea crispata*, which occurred in low coverage and sparsely distributed within the Project boundary. No additional marine species of conservation importance were identified compared to the approved EIA Report.

5.4 Evaluation of Ecological Impacts

Construction Phase – Direct Impact

Marine habitat Loss

5.4.1 The proposed design changes include slight amendment to the footprint of landfall at proposed breakwaters, and the reduction of the proposed wave wall length. The direct marine habitat loss arising from the design changes is expected to be similar to those assessed in the approved EIA Report as summarised in **Table 5.1**.

5.4.2 Compared to the approved EIA Report, there would be slight changes in area of habitat loss under the construction of proposed breakwaters, mainly due to the new landfall formation and change in dredging extent. Permanent loss of subtidal soft bottom habitat would be reduced by 0.1 ha under the proposed design changes. Whereas slight increase in permanent loss is anticipated for subtidal hard bottom and intertidal rocky shoreline habitat of about 1.0 ha and 50 m, to about 2.0 ha and 170 m respectively (**Table 5.1** refers).

5.4.3 There would also be changes on the area of temporary loss from proposed design changes. The extent of dredging of seabed would be amended, resulting in temporary loss of about 0.6 ha of subtidal soft bottom habitat, which has a reduction of about 1.4 ha compared to the approved EIA Report. Whereas about 0.1 ha of subtidal hard bottom habitat would also be temporarily loss from the proposed design change, resulting in a small increase of temporary loss in subtidal hard bottom compared to the approved EIA Report (**Table 5.1** refers). All these directly impacted habitats support a low abundance and diversity of intertidal / benthic fauna with coral species of conservation importance recorded.

5.4.4 Seabed composition within the direct impact footprint of the proposed breakwaters was found to mainly be made up of soft substrates at the Aberdeen Channel, with bedrock / boulders along the shore. The benthic assemblages comprised of common and widespread species in Hong Kong, dominated by annelid worms with no species of conservation importance recorded. The subtidal hard substrata habitat within the Project site supported sparse and patchy cover (<5%) of locally common coral species which are commonly found in Hong Kong waters. No coral species were recorded along in the middle of the Aberdeen Channel (C5).

5.4.5 According to the approved EIA Report, a total of 13 coral species of conservation importance would be directly affected by the construction of proposed breakwaters, which remains the same under the proposed design changes. These included ten hard coral species, such as stress-tolerant *Oulastrea crispata* and *Bernardpora stutchburyi*, along the proposed western breakwater (REA5), four hard coral species, such as *Tubastraea* sp. and *Balanophyllia* sp. and one black coral species *Antipathes curvata* along the proposed eastern breakwater (REA6). Given the low ecological value of the habitats, and that only common and widespread coral species of low coverage (<5%) would be directly affected, the impact on subtidal substrate habitat loss due to construction of proposed breakwaters is considered minor. Hence, no additional ecological impact is anticipated.

5.4.6 Given the extent of the additional affected subtidal hard bottom habitat is relatively small in scale, and already covered by the baseline surveys under the approved EIA Report, it is anticipated that the impact on subtidal substrate and habitat loss due to the construction of the latest proposed breakwaters design remains minor. The additional 50 m of intertidal rocky shoreline loss under the latest project design is considered of low ecological value and located at the upper inland direction of the landfall, it is therefore anticipated that the impact on marine habitat loss and intertidal assemblage would also be minor.

5.4.7 Under the approved EIA Report, the elevated footpath and vessel impact protection system (VIPS) will be constructed on underwater levelling stones and would not encroach onto the intertidal rocky shore, resulting in permanent loss of about 0.1 ha and 0.3 ha of subtidal soft and hard bottom substrate respectively. Under the proposed design changes, there would be no change to the extent of elevated footpath and VIPS, and the additional proposed landing platform will be constructed in adjacent developed area, it is therefore anticipated that the ecological impacts of habitat loss due to construction of the proposed land access and landing platform would remain as minor.

5.4.8 According to the approved EIA Report, the floating footprint of the proposed wave wall and the concrete sinkers would result in an overall permanent loss of approximately 0.1 ha on both subtidal soft and hard bottom habitats respectively, with no coral species recorded within the direct footprint. Given that the proposed wave wall would be shortened to about 80 m under the proposed design changes, the footprint created from the proposed wave wall and concrete sinkers required would be slightly reduced. Conservatively, the overall permanent loss of approximately 0.1 ha on both subtidal soft and hard bottom habitats remains valid, and the ecological impacts of habitat loss remains as minor.

5.4.9 Given that there would be no change on the existing western breakwater (about 200 m of artificial seawall) to be lost permanently due to breakwater shortening and modification works under the proposed design change, the ecological impact of artificial seawall loss from the modification remains as minor.

Table 5.1 Summary of Habitat Loss Changes

Proposed works	Habitat Loss			
	Subtidal Soft Bottom (Sediment) (ha)	**Subtidal Hard Bottom (ha)**	**Intertidal Rocky Shoreline (m)**	**Artificial Seawall (m)**
Under the Approved EIA Report				
Construction of proposed breakwaters	Permanent loss: about 5.1 Temporary loss due to dredging: about 2.0	Permanent loss: about 1.0	Permanent loss: about 120	-
Construction of proposed land access connecting proposed eastern breakwater	Permanent loss: about 0.1	Permanent loss: about 0.3	-	-
Construction of proposed wave wall in the form of floating breakwater	Permanent loss: no more than 0.1	Permanent loss: no more than 0.1	-	-
Modification of the existing breakwaters	-	-	-	Permanent loss: no more than 200
Latest Project Design				
Construction of proposed breakwaters	*Permanent loss: about 5.0* *Temporary loss due to dredging: about 0.6*	*Permanent loss: about 2.0* *Temporary loss due to dredging: no more than 0.1*	*Permanent loss: about 170*	-
Construction of proposed land access connecting proposed eastern breakwater	Permanent loss: about 0.1	Permanent loss: about 0.3	-	-
Construction of proposed wave wall in the form of floating breakwater	Permanent loss: no more than 0.1	Permanent loss: no more than 0.1	-	-
Modification of the existing breakwaters	-	-	-	Permanent loss: no more than 200

Note:
Text shown in italic indicated areas of habitat loss with changes under the latest project design.

Impacts to Species of Conservation Importance

5.4.10 As discussed in **Section 5.4.5**, a total of 13 coral species of conservation importance were recorded within the direct footprint of the latest project design, which was already covered by surveys under the approved EIA Report. Considering the impact on natural habitats has been minimised through careful design of the major work items as far as possible, and all these species (12 hard corals and one black coral species, as shown in Table 7.20 of the approved EIA Report) are commonly recorded and widespread in Hong Kong waters, as well as the overall small area of habitat affected with low coverage (<5%) and sparse distribution of coral species recorded, the overall direct impacts to coral species of conservation importance are anticipated to remain

minor. No mitigation measures would be required. Furthermore, eco-shoreline features incorporated in the future breakwater could further enhance the biodiversity of the habitat.

Direct Injury / Mortality of Wildlife

5.4.11 As stated in the approved EIA Report, species with higher mobility were not anticipated to be significantly impacted, but fauna with lower mobility would be subjected to higher risk of injury or mortality. Given that the Project site would be mainly at the middle of the Aberdeen Channel, which is subjected to existing high level of disturbance from the typhoon shelter and less preferable to be utilised by wildlife, and that the proposed works would be confined within the works area to avoid unnecessary encroachment into natural habitats, the impact from direct injury / mortality of wildlife is anticipated to remain minor.

Construction Phase - Indirect impacts

Disturbance Impacts on Marine Habitats and Wildlife from Deterioration of Marine Water Quality

5.4.12 With the provision of water quality mitigation measures for sediment control (such as installation of silt curtains) and no anticipated increase of working vessels, the potential impacts of increase in suspended solid, decrease in level of dissolved oxygen, and chemical spillage and contaminants are expected to be minor and insignificant. Given that only minor changes in the scale of dredging and DCM works are proposed under the latest project design, and according to **Section 3.3.3**, the indirect impact on change in water quality is minor.

Disturbance Impacts on Marine Wildlife from Underwater Noise and Vibration

5.4.13 According to the approved EIA Report, the vicinity and the Project site are already subject to existing high level background underwater noises, and that marine organisms already adapted to high level of background underwater noise. With use of quieter Powered Mechanical Equipment and good site practices implemented during construction phase to further minimise disturbance impacts, it is anticipated that the underwater noise disturbance impacts to marine wildlife in the vicinity of the Project site would remain minor.

Disturbance Impacts on Coral from Reduction of Sunlight

5.4.14 According to the approved EIA Report, large construction vessels such as dump lighters would potentially prevent sunlight from reaching seabed beneath the vessels, thereby potentially affecting hermatypic hard corals that rely on photosynthesis, leading to growth arrest and bleaching if sunlight was insufficient over long duration. Given that the latest design change would not significantly affect the operation of construction vessels, and that these vessels would distribute across different work areas throughout the construction phase, which is temporary and localised in nature, as well as mainly stationed in the middle of Aberdeen Channel to facilitate construction, where no coral species were recorded, it is anticipated the reduction of sunlight on seabed due to construction vessels would be temporary and minimal,

disturbance impacts on corals arising from reduction of sunlight by large construction vessels would be considered similar to the approved EIA Report as minor.

Operation Phase – Direct Impact

Impacts on Marine Habitats and Wildlife

5.4.15 As mentioned in **Section 2.1**, the latest Project boundary remains similar to that assessed in the approved EIA Report, potential impacts arising from increase in boat mooring and anchoring activities inside the marine area protected by the proposed breakwater is anticipated to remain insignificant.

Operation Phase – Indirect Impact

Impacts from Potential Changes in Hydrodynamic Properties and Hydrology

5.4.16 The latest design of the newly formed breakwaters remains similar to that in the approved EIA Report. **Section 3.3.6** also stated that no adverse hydrodynamic and water quality impacts are expected with the proposed design changes. Given that the change of Project's footprint is relatively small in the latest design, and the low diversity and abundance of the subtidal organisms in the Project boundary, no adverse impacts from the changes to the hydrodynamic flow regime and water quality (e.g. dissolved oxygen, suspended solid and turbidity) from the latest project design are anticipated.

Disturbance Impacts from Marine Traffic

5.4.17 Given that the Project boundary remains similar to the approved EIA Report and no increase of working vessels is anticipated, as well as the area is already subject to disturbance and low abundance of fauna recorded, the disturbance impacts from increase marine traffic is thus anticipated to remain minor.

Disturbance Impacts from Reduction of Sunlight

5.4.18 Given that the latest design would not create additional structures that potentially permanently shading the water column, and no increase of working vessels is anticipated, the disturbance impact on subtidal hard bottom habitat from reduction of sunlight is anticipated to remain insignificant.

Cumulative Impacts

5.4.19 In consideration of the proposed design changes to the expansion of ATS, and the large separation distances from other potential concurrent marine-based projects within the Western Buffer and Southern WCZs, no adverse cumulative ecological impact is anticipated. No adverse water quality impact due to marine-based construction and operation of the Project is anticipated with the implementation of the recommended mitigation measures and environmental monitoring and audit (EM&A) programme. Given the above, no adverse cumulative ecological impact is anticipated even with the proposed design change.

5.5 Review on Mitigation and Enhancement Measures

5.5.1 Given that the ecological impacts arose from the latest project design remain the same as in the approved EIA and are considered acceptable, no additional mitigation measure is required apart from those in the approved EIA Report. With recommended mitigation measures to control water quality in the water quality impact assessment, and adoption of good site practices, the ecological impacts on important habitats and the associated wildlife would be mitigated to the maximum practical extent, no unacceptable adverse ecological impacts would be resulted and thus no ecological compensation measure is required.

Enhancement

5.5.2 Under the approved EIA Report, the subtidal portion of the proposed and modified breakwaters will provide approximately 4.55 ha of artificial hard substrates for potential colonisation of corals or other epibenthos. Whereas construction of proposed land access connecting proposed eastern breakwater would also create approximately 0.2 ha of artificial subtidal hard bottom habitat. Eco-shoreline features will be incorporated into these breakwaters to enhance the existing intertidal and subtidal habitats by creating a variety of artificial microhabitats that facilitate the colonisation of intertidal and subtidal epifauna.

5.5.3 Additionally, approximately 1380 m of artificial intertidal habitat would also be created under the construction of proposed breakwaters as well as the proposed land access connecting proposed eastern breakwater. Apart from the surface of the proposed breakwaters, vertical surface of the VIPS facing marine water would also incorporate eco-feature to provide artificial habitats that support communities associated with rocky shore.

5.5.4 Under the latest project design, a total of about 5.1 ha of artificial hard substrate would be created. Habitat created from the construction of proposed land access connecting proposed eastern breakwater (about 0.2 ha) and modification of the existing breakwaters (about 0.2 ha) both remain unchanged from the approved EIA Report. Whereas there will be an increase of about 0.35 ha to about 4.7 ha of artificial hard substrate created from the newly formed breakwaters. Other artificial habitats created (i.e., artificial seawall) remain unchanged as in the EIA Report, and the total artificial habitats created by the Project are summarised in **Table 5.2**.

Table 5.2 Artificial Habitat Created by the Project

Proposed Works	Artificial Habitats Created			
	Artificial Subtidal Hard Bottom (ha)		Artificial Seawall (m)	
	Approved EIA	Latest Project Design	Approved EIA Report	Latest Project Design
Construction of proposed breakwater	About 4.35	About 4.7	About 1080 (vertical face of caisson and blockwork seawall)	About 1080 (vertical face of caisson and blockwork seawall)
Construction of proposed land access connecting proposed eastern breakwater	About 0.2	About 0.2	About 300 (vertical face of VIPS)	About 300 (vertical face of VIPS)
Modification of the existing breakwaters	About 0.2	About 0.2	-	-
Total	About 4.75	About 5.1	About 1380	About 1380

5.6 Review on Environmental Monitoring and Audit Requirements

5.6.1 According to **Section 5.4**, given that the ecological impact arising from the proposed design changes of the project are expected to be comparable to that of the original design in the approved EIA Report, no additional environmental monitoring and audit requirements is required. Regular weekly marine water quality monitoring and site audits during construction phase and four-weeks post-construction water quality monitoring programme upon completion of marine works during operation phase shall be carried out by the Environmental Team (ET) to ensure recommended mitigation measures are properly implemented and in place as mentioned in the approved EIA Report.

5.7 Conclusion

5.7.1 A review focusing on the proposed design changes on the project, including construction of proposed breakwaters, proposed wave wall, and proposed land access to eastern breakwater at expanded ATS with respect to ecological impact has been conducted by reviewing the findings, impact assessment and proposed mitigation measures of the approved EIA Report, as to verify if the impact assessment and mitigation measures proposed under the approved EIA Report remains valid and applicable under the proposed design changes.

5.7.2 The extent of marine habitats within and adjacent to the Project site remain unchanged from the approved EIA Report. Habitats recorded include subtidal hard substrate and soft bottom habitats, and intertidal habitats (i.e. rocky shore, sandy shore and artificial seawall), which are considered to remain as very low to low ecological value.

5.7.3 Among the recorded marine habitats, no direct impact is anticipated for sandy shore. The proposed design changes on marine-based works would cause permanent loss and temporary loss of subtidal soft substrate habitats (about 5.0 ha and 0.6 ha respectively), permanent loss and temporary loss of subtidal hard substrate habitats (about 2.0 ha and 0.1 ha respectively), intertidal rocky shore (about 170 m), and artificial seawall (about 200 m). Given that the proposed design changes are not expected to result in a significant increase in the scale of marine works (e.g. dredging), the small size habitat loss and very low to low ecological value of the affected habitats, the direct impact of habitat loss therefore remained to be Low for all these habitats.

5.7.4 The overall ecological impact anticipated from the latest project design would be similar to that of the original design in the approved EIA Report. With the key disturbance impacts remaining unchanged, very low to low ecological value of the subtidal and intertidal habitats and that proper water quality mitigation measures would be adopted on site, the indirect disturbance impacts are anticipated to remain Low.

5.7.5 32 coral species of conservation importance were recorded from the assessment area in previous and current surveys, which were recorded in low abundance and diversity. Most of the species observed were common species found in Hong Kong such as *Favites abdita* and *Outlastrea crispata*. Among the recorded species, direct impact is anticipated for 13 coral species of conservation importance under the approved EIA Report. Given that the extent of the latest project design was already covered by the surveys from the approved EIA Report, and that all these species are commonly widespread in Hong Kong waters, recorded in low coverage and are all subjected to existing disturbance from the typhoon shelter, potential impact on coral species is anticipated to remain Low.

5.7.6 According to the approved EIA Report, enhancement measures such as installing eco-shoreline features on the proposed and modified breakwaters as well as eco-features on VIPS would also be implemented, which could create about 5.1 ha of artificial subtidal hard bottom and about 1380 m of artificial seawall habitats under the latest project design. With the proposed water quality mitigation measures in place, no adverse ecological impact is expected from the proposed design changes and the ecological impacts from the Project would remain acceptable.

6 FISHERIES IMPACT

6.1 Introduction

6.1.1 This section presents a review of the findings and recommendations of the fisheries impact assessment in the approved EIA Report associated with the proposed design changes of the Project.

6.2 Assessment Methodology

6.2.1 The objective of this review is to assess the potential impacts on fisheries arising from the proposed design changes. Additionally, it aims to determine the relevance of the proposed mitigation measures, as well as the environmental monitoring and auditing measures, in addressing these impacts. This review has thoroughly reviewed the fisheries baseline, fisheries impact assessment, and the proposed mitigation measures, along with the environmental monitoring and auditing protocols established in the EIA study, particularly those associated with the proposed design changes.

6.3 Review of Fisheries Baseline Information

6.3.1 A desktop review of the fisheries baseline information outlined in the approved EIA Report has been conducted, focusing on the amended Project boundary and utilising the latest available information. The assessment area remains unchanged, encompassing the Western Buffer and Southern WCZs, located in the southwestern, southeastern and southern Hong Kong (Figure 8.1 under approved EIA Report refers). No additional key fisheries resources have been identified compared to the approved EIA Report. Furthermore, no sites of fisheries importance were identified within the Project boundary.

6.3.2 The Project boundary is located immediately south of the existing Aberdeen Typhoon Shelter (ATS) and is relatively small and enclosed. In terms of capture fisheries, the waters within and surrounding the Project boundary are utilised by moderate to high level of fishing operation (>400-600 vessels) which mainly dominated by the moderate number of sampan (>200-400 vessels) and low to moderate number of other types of fishing vessels (>100-200 vessels). Moderate fisheries production levels (>200-300 kg/ha) have been recorded within and near the Project boundary, with low production (>50-100 kg/ha) attributed to sampans and moderate production levels (>200-300 kg/ha) associated with other types of fishing vessels. The commercial value of the catch includes low to moderate species such as seabream (Sparidae), moray eel (Muraenidae), and croaker (Sciaenidae), and a smaller proportion of medium to high commercial value species, including penaeid shrimp (Penaeidae), mantis shrimp (Squillidae), and tongue sole (Cynoglossidae).

6.3.3 No mariculture activities were identified within the Project boundary. The two nearest fish culture zones were Sok Kwu Wan (SKW) Fish Culture Zone (FCZ) and Lo Tik Wan (LTW) FCZ, located approximately 3.4 km and 3.8 km from the Project boundary, respectively. Three additional FCZs, including Ma Wan (MW) FCZ, Cheung Sha Wan (CSW) FCZ and Po Toi (PT) FCZ, were located at least 10 km away from the Project boundary. The common species produced by the FCZs within the

assessment area in 2022 included pompano, red snapper, star snapper, black croaker, cobia, and hybrid grouper.

6.4 Evaluation of Environmental Impact

Construction Phase – Direct Impact

Loss of Fishing Grounds and Fisheries Habitats

6.4.1 The proposed design changes include slight amendment to the footprint of landfall at proposed breakwaters, and the reduction of the proposed wave wall length. Consequently, the direct fisheries impact resulting from these design changes is expected to be consistent with those evaluated in the approved EIA Report.

6.4.2 No direct loss of sites of fisheries importance is anticipated, as all such sites are located outside the Project boundary. The temporary loss of access to fishing grounds and fisheries habitats due to restricted access during construction phase remains unchanged from the approved EIA Report, estimated at approximately 42 ha. Therefore, the impact of the temporary loss of access to fishing grounds is anticipated to remain minor.

6.4.3 Regarding permanent impact, the proposed design changes have reduced the construction footprints of proposed breakwaters, proposed wave wall, and proposed land access to the eastern breakwater to approximately 7.7 ha, 0.2 ha and 0.4 ha, respectively. The permanent loss of fishing grounds and fisheries habitats has decreased from 8.7 ha to 8.3 ha under the latest design. Thus, the impact of the permanent loss of fisheries habitats and resources is anticipated to remain minor.

Construction Phase – Indirect Impacts

Increase in Work Vessels

6.4.4 According to the approved EIA Report, fishing activities near the Project boundary are mainly small-scale and carried out using highly mobile sampans, which are less susceptible by disturbances. Given the Project boundary remains consistent with that of the approved EIA Report and no increase of working vessels is anticipated (i.e. remaining at a maximum of 24 vessels), fishermen can relocate to alternative fishing grounds south and southwest of the Aberdeen Channel during the construction phase. Thus, it is anticipated that the disturbance impacts on fishing activities arising from the increase in work vessels remains minor.

Change in Water Quality

6.4.5 Given the scale of change in the dredging extent and DCM is minor, no significant alterations to water quality impacts are anticipated. With the implementation of water quality mitigation measures for sediment control, such as installation of silt curtains, the potential impacts from the increased suspended solid, decreased dissolved oxygen level, and chemical spillage are expected to remain minor.

Underwater Sound

6.4.6 According to the approved EIA Report, the southern waters near the existing ATS are already subjected to high levels of marine traffic due to inbound and outbound vessels, thus the marine organisms are adapted to elevated background levels of underwater noise. The construction works will be carried out in several stages to further minimise noise and vibration disturbance to the marine organisms. Thus, since the proposed design changes will not result in significant increase of marine works vessels, the potential impact of underwater noise is considered to be similar to that reported in the approved EIA Report, and remains minor.

Operation Phase – Direct Impact

Loss of Fishing Grounds and Fisheries Habitats

6.4.7 No additional works will be required during the operation phase. Thus, no further loss of fishing grounds and fisheries habitats is expected from the operation of the project due to the proposed design changes.

Operation Phase – Indirect Impact

Change in Hydrodynamics and Water Quality

6.4.8 The latest design of newly formed breakwaters remains consistent with that in the approved EIA Report. As stated in **Section 3.3.6**, no adverse hydrodynamic and water quality impacts are expected with the proposed design changes. Thus, changes to the hydrodynamic flow regime and water quality (e.g. dissolved oxygen, suspended solid, and turbidity) are anticipated to remain minor.

Increase in Marine Traffic

6.4.9 Given the Project boundary is similar to the approved EIA, it is expected that the operating fishing vessels (i.e. sampans) can transit to nearby alternative marine areas at the south and southwest of Aberdeen Channel for fishing purposes. Thus, the expected disturbance to fishing activities caused by increased marine traffic near the Project boundary is anticipated to remain minor.

6.5 Review on Mitigation Measures and Environmental Monitoring and Audit Requirements

6.5.1 As outlined in **Section 6.4**, the fisheries impact arising from the proposed design changes of the Project are expected to be comparable to those of the original design presented in the approved EIA Report. Therefore, the mitigation measures for minimising water quality impacts as proposed in the approved EIA Report (such as the deployment of double silt curtains, proper chemical waste disposal, and adherence to good site practices), must be strictly implemented during both construction and operation phases of the Project. It is expected that no unacceptable residual fisheries impact will arise from the Project, and thus, no specific environmental monitoring and auditing program for fisheries is required.

6.6 Conclusion

6.6.1 A review has been conducted to assess the proposed design changes related to the construction of proposed breakwaters, proposed wave wall, and proposed land access to the eastern breakwater at the expanded ATS, specifically concerning fisheries impact. This review involved evaluating the findings, impact assessment, and proposed mitigation measures from the approved EIA Report to verify the validity and acceptability of the impact assessment and mitigation measures in the light of the proposed project design changes.

6.6.2 Given that the proposed design changes will not result in a significant increase in the scale of marine works (e.g. dredging) and marine traffic during the construction and operation phases, the overall fisheries impact is anticipated to be similar to that of the original design in the approved EIA Report. Thus, with the proper implementation of recommended mitigation measures from the approved EIA Report, fisheries impacts from the proposed design changes are expected to remain acceptable.

7 LANDSCAPE AND VISUAL IMPACT

7.1 Introduction

7.1.1 This section presents a review of the findings and recommendations of the landscape impact assessment in the approved EIA Report, including update on visual impact assessment based on the prevailing requirements in the amended EIAO-TM and latest GN No. 8/2023, taking into account the proposed design changes.

7.1.2 Design changes potentially affecting landscape and visual impact includes:

a) The Project boundary is slightly amended at the Tai Shue Wan (TSW) connection point of proposed land access to cover the footprint of a proposed landing platform. The revised Project boundary will increase the site area by approximately 0.05 ha.

b) Removal of one existing tree at the west side of landing platform with associated transplant or compensation.

c) The configurations of the proposed eastern and western breakwaters are revised slightly with footprint of the landfall increased.

d) The length of the proposed wave wall in the form of floating breakwater is shortened slightly from about 110 m to approximately 80 m.

7.1.3 There is no change to the dimensions to the features presented in **Table 9.1** in the approved EIA.

7.2 Baseline Study

7.2.1 Review of the baseline Landscape Resources (LRs), Landscape Character Areas (LCAs) and visual envelope identified in the approved EIA Report regarding the proposed extended site boundary of the Project alignment and boundaries of associated works areas has been conducted based on latest available information, desktop study and site visit. No additional LR and LCA are identified. The LRs and LCAs with their sensitivity still valid as in the approved EIA Report.

7.2.2 The locations of the LCAs and LRs remain unchanged and are mapped in Figure 9.1 and Figure 9.2 respectively under approved EIA Report. No OVT is identified within the assessment area. No tree of particular interest is identified within the Project area.

Broadbrush Tree Survey and Individual Tree Survey (Tai Shue Wan)

7.2.3 Updates have been included to the broadbrush tree survey and reviewed based on the modifications of the layout. A total of approx. 1,080 nos. of trees is included in the review. The trees are generally with average form and health, and medium to low amenity value. Most of the trees have low anticipated survival rate after transplanting as majority are all growing on slopes and have grown under poor conditions which have limited the formation of proper root ball. 1 additional tree is identified from the updates. The update is included in **Appendix 7.1**.

7.2.4 2 nos. of *Lagerstroemia speciosa* (schedule under Cap 96) are identified under the survey, no other important, rare, or endangered tree species are found and no Tree of Particular Interest (TPI) is identified. Approx. 23 nos. of undesirable tree species *Leucaena leucocephala* are identified under the survey. Other identified trees are common trees or landscaping trees found in Hong Kong.

7.2.5 Under the current Project, all surveyed tree groups are proposed to be retained. Some undersized trees are located near the proposed works area at the existing eastern breakwater, however no trees of 95mm DBH or above are identified within works areas.

7.2.6 Based on the desk study and broad-brush tree survey, it has been determined that no large mature trees, protected species, registered OVTs, or registered wall trees are found within the landscape impact assessment area. The Tree Group Assessment Schedule is included in **Appendix 7.1**.

Visual Resources

7.2.7 The most prominent visual resource around the Project Site remains unchanged, being a series of mountainous backdrop i.e. Bennet's Hill, Tai Shue Wan, Yuk Kwai Shan and Ap Lei Pai and the open water in the Aberdeen Channel. The mountainous backdrop, hillside greenery and the open water are visible to most residents and travellers in the surrounding areas and provide a lush green backdrop to the Project Site.

7.2.8 Due to the Aberdeen Channel dominating the Project Site and hillsides to its east and west, a broad view corridor is orientated on a north-south axis. From this axis, views towards the existing ATS and mountainous backdrops towards the north, east and west, are available.

Visual Envelope

7.2.9 The visual envelope is considered the same as identified in the approved EIA Report (i.e. Approved Scheme). The visual baseline review was defined by a visual envelope (VE) formed by the natural and man-made features such as ridgeline or building blocks. As the location of the proposed works remains unchanged within the Aberdeen Channel between Ap Lei Pai and Ocean Park, and the proposed works' height remains the same, there is no revision required for the current VE. The VE of the Project is illustrated in Figure 9.4 under approved EIA Report.

Identified Key Public Viewpoints (KVPs)

7.2.10 This section is revised in stipulation to the latest EIAO GN no. 8/2023. The major change applies to the removal KVPs. Upon the update, 7 KVPs, namely Travelling (T) and Recreational (REC) remains. They are listed below and their baseline assessment and sensitivity, in **Table 7.1** and mapped in **Figure 7.3**.

- T1: Travelers along walkway at Tai Shue Wan
- T2: Travelers along Ocean Drive
- T3: Travelers along Nam Long Shan Road

- T4: Travelers along Ap Lei Chau Praya Road
- T5: Travelers along Shum Wan Road
- REC1: Recreational visitors to Fullerton Hotel
- REC2: Recreational visitors of Water World Ocean Park

Viewing points (VPs)

7.2.11 VP1 has been updated by shifting slightly northeast, to show the updated landing platform area. There is no significant change on the other representative Public Viewing Points (VPs), namely VP2, VP3, VP4, VP5 and VP6, which are considered still applicable to the Varied Scheme. Their locations are shown in **Figure 7.3**.

Table 7.1 Key Public Viewpoints and Their Sensitivity

ID No.	KVP	Type of KVP	Number of Individuals (Many/ Medium/ Few)	Quality of Existing View (Good/Fair/ Poor)	Availability of Alternative Views (Yes/ No)	Degree of Visibility of Proposed development (Full/ Partial/ Glimpse)	Duration of View (Long/ Medium/ Short)	Frequency of View (Frequent/ Occasional/ Rare)	Sensitivity (High/ Medium/ Low)
T1	Travelers of walkway at Tai Shue Wan	Traveller	Medium	Fair	Yes	Full	Medium	Occasional	Medium
T2	Travelers of Ocean Drive	Traveller	Medium	Fair	Yes	Full	Short	Occasional	Low
T3	Travelers of Nam Long Shan Road	Traveller	Medium	Fair	Yes	Glimpse	Short	Occasional	Low
T4	Travelers of Ap Lei Chau Praya Road	Traveller	Medium	Fair	Yes	Glimpse	Short	Occasional	Low
T5	Travelers of Shum Wan Road	Traveller	Medium	Poor	Yes	Glimpse/Nil	Short	Rare	Low
REC1	Recreational visitors of Fullerton Hotel	Recreational	Few - Medium	Good	Yes	Full	Medium - Long	Frequent	High
REC2	Recreational visitors of Water World Ocean Park	Recreational	Few - Medium	Good	Yes	Full	Short - Medium	Occasional	Medium

Table 7.2 Magnitude of Change on Landscape Resources/ Character Area

ID	Description	Proposed changes due to variations in scheme	Magnitude of Change (Substantial/ Moderate/ Slight / Negligible)
Landscape Resources			
LR1	Coastal Landscape	Remain unchanged as assessed in the approved EIA Report	Negligible
LR2	Rocky Shore		Slight
LR3	Sandy Shore		Negligible
LR4	Shrubland		Negligible
LR5	Artificial Seawall		Moderate
LR6	Developed Area	Approved EIA report: No potential impact. Proposed changes in this report: The variation scheme involves raising and extending of the existing landing platform to create a barrier-free connection to the existing road. The proposed works shall result in the felling of 1 no. tree.	Slight
LR7	Open Water	Remain unchanged as assessed in the approved EIA Report	Slight
Landscape Character Area			
LCA1	Coastal Protection Area	Remain unchanged as assessed in the approved EIA Report	Slight
LCA2	Governmental Land Use		Negligible
LCA3	Green Belt		Negligible
LCA4	Industrial		Negligible
LCA5	Developed area - Other Uses		Negligible
LCA6	Typhoon Shelter		Slight
LCA7	Open Water		Substantial

7.3 Landscape Impact Assessment

Sources of Landscape Impact

7.3.1 The potential adverse landscape impacts during construction phase are mostly unchanged from the approved EIA.

Significance of Unmitigated Landscape Impact

7.3.2 The magnitude of unmitigated impacts on LRs and LCAs associated with the construction phase and operational phases of the project are assessed and described under **Table 7.2**.

Landscape Resources

7.3.3 LR6 will undergo insubstantial/slight impact due to its low sensitivity and small change in magnitude due to loss of vegetation.

7.3.4 The initial significance of unmitigated impacts for LR1, LR2, LR3, LR4, LR5 and LR7 will remain unchanged.

Landscape Character Area

7.3.5 There is no change to the unmitigated impacts on the 7 LCAs.

7.4 Visual Impact Assessment

Sources of Visual Impact

7.4.1 There is no significant change on the source of visual impacts as assessed in the Approved Scheme. The current layout of Varied Scheme is illustrated in **Figure 7.3**

7.4.2 The proposed variations in the scheme are mainly confined to the landing platform area, where the original platform is raised to match the existing Tai Shue Wan Road to provide a barrier-free access to the future land access and publicly accessible eastern breakwater. The proposed change, and a few other minor changes, are summarised in **Section 7.1.2**.

Magnitude of Visual Impact on existing KVPs

7.4.3 The magnitude of impacts during operation phase is assessed and descripted subject to the compatibility of the project with the surrounding landscape, in terms of its effect on visual composition, visual obstruction and visual change in accordance with the EIAO GN No. 8/2023. Photomontage would be prepared for the proposed VPs as per the requirements of the Study.

Representative Viewpoints

7.4.4 Photomontages of the VPs showing the comparison between existing conditions, at completion of the Project without mitigation measures, and the Project with mitigation measures, were prepared in accordance with EIAO GN No. 8/2023.

7.4.5 In response to the variation scheme, location of VP1 has been slightly adjusted northeast-ward to represent the view towards the landing platform. Located

approximately 30 m northeast from the Project, the general view remains consisting of the Aberdeen Channel with Ap Lei Pai and its tombolo in the background. The ridgelines of Lamma Island are visible in the far background. The vegetated slopes and rocky coastal edges of Ocean Park are visible in the middle ground. The KVPs of this VP are mainly recreational users of Water World Ocean Park (REC2) who are walking to and from the themed attractions. The view also represents traveller along walkway at Tai Shue Wan (T1). The remaining VPs, namely VP2, VP3, VP4, VP5 and VP6, have remained unchanged from the approved EIA.

7.4.6 The viewpoints are mapped in **Figure 7.3** with their descriptions summarized as follows and in Table 7.3.

Table 7.3 Variations of Viewing Points

Viewing points	Key Public Viewpoints	Changes due to variations in scheme
VP1	T1, REC2	Slightly adjusted northeast-ward to represent the view towards the landing platform
VP2	T2, REC1	Remain unchanged as assessed in the approved EIA
VP3	-	
VP4	T4	
VP5	T5	
VP6	T3	

7.4.7 VP1-Pedestrian Walkway at Tai Shue Wan

In response to the variation scheme, location of VP1 has been slightly adjusted northeast-ward to represent the view towards the landing platform. Located approximately 30 m northeast from the Project, the general view of the Aberdeen Channel with Ap Lei Pai and its tombolo in the background is not obstructed by the proposed landing platform that appear in the foreground after the proposed changes. The ridgelines of Lamma Island remain visible in the far background. The vegetated slopes and rocky coastal edges of Ocean Park remain visible in the middle ground. Hence, the magnitude of change and impact significance remain unchanged. The VSRs of this VP are mainly recreational users of Water World Ocean Park (REC2) who are walking to and from the themed attractions. The view also represents traveller along walkway at Tai Shue Wan (T1).

7.4.8 VP2-Pedestrian Walkway along Ocean Drive

VP2 remains unchanged. Located approximately 200 m northeast from the Project. The general view of the Aberdeen Channel and Ap Lei Pai in the background remain unchanged. The ridgeline of Lamma Island and a portion of the open sea horizon remain visible in the far background. The vegetated slopes and rocky coastal edges of Ocean Park remain visible in the middle ground. As the proposed changes are not visible at VP2, the magnitude of change and impact significance remain unchanged. The VSRs are travellers along Ocean Drive (T2) and recreational visitors of Fullerton Hotel (REC1).

7.4.9 VP3-Pedestrian Walkway along the Sham Wan Embankment Sitting-out Area

VP3 remains unchanged. Located approximately 850 m north from the Project. The general view consists of the Aberdeen Marina with numerous parked yachts dominating the foreground. Since this is a VP close to sea level, the typhoon shelter in the background remains obstructed by the yachts. Taller elements such as Larvotto, Mount Johnston ridgeline, Ap Lei Pai ridgeline to the right and Broadview Court, Ocean Park ridgeline, Marine Police Base, and Fullerton Hotel remain visible. As the proposed changes are not visible at VP3, the magnitude of change and impact significance remain unchanged. The VSRs of this VP are mainly residents of Marinella (R4).

7.4.10 VP4-Pedestrian Walkway along Ap Lei Chau Praya Road

VP4 remains unchanged. Located approximately 400 m northwest from the Project. The general view consists of the shipyard within the Aberdeen Typhoon Shelter. Brick Hill, Ocean Park ridgeline, vegetated slopes, and Fullerton Hotel remain visible in the background. The existing breakwaters are visible although obscured by the parked ship. As the proposed changes are not visible at VP4, the magnitude of change and impact significance remain unchanged. The VSRs of this VP are mainly residents of Larvotto (R1), Marina South (R2) and Shum Wan Towers (R3), pedestrians and travellers on vehicles along Ap Lei Chau Praya Road (T4).

7.4.11 VP5-Pedestrian Walkway along Shum Wan Road

VP5 remains unchanged. Located approximately 550 m north from the Project. As the view to the Project area is fully obstructed by the parking podium of Broadview Court, low-rise commercial buildings and ship supplies and services, the proposed changes are not visible at VP5. Hence, the magnitude of change and impact significance remain unchanged. The VSRs of this VP are mainly residents of Broadview Court (R5) and pedestrians and travellers on vehicles along Shum Wan Road (T5).

7.4.12 VP6-Pedestrian Walkway along Nam Long Shan Road

VP6 remains unchanged. Located approximately 550 m northeast from the Project. This is an elevated view of the Aberdeen South Typhoon Shelter and Marina. The vegetated slopes of Brick Hill are immediately to the left while the marina overlook is to the right. The towers of Larvotto as well as ridgeline of Mount Johnston remain visible in the middle ground while the ridgelines of Lamma Island and Ap Lei Pai remain in the background. The existing breakwaters remain visible at a distance. As the proposed changes are not visible at VP6, the magnitude of change and impact significance remain unchanged. The VSRs of this VP are mainly pedestrians and travellers on vehicles along Nam Long Shan Road (T3).

Table 7.4 Magnitude of Visual Impact during Operation Phases

KVP ID.	KVP	Source of Visual Impact	Approx. Viewing Distance (m)	Compatibility of the Project with the Surrounding Landscape (High/ Medium/ Low)	Duration of Impacts (Long/ Medium/ Short)		Scale of Development (Large/ Medium/ Small)	Reversibility of change (Reversible/ Irreversible)	Potential Blockage of View (Full/ Partial/ Nil)	Magnitude of Change (Substantial/ Moderate/ Slight / Negligible)	
					Construction	Operation				Construction	Operation
T1	Travelers along Walkway at Tai Shue Wan	Proposed raised Landing Platform, breakwaters and proposed wave wall in the form of floating breakwater	30	Low	Medium	Long	Large	Irreversible	Partial	Moderate	Moderate
T2	Travelers along Ocean Drive	Proposed breakwaters and proposed wave wall in the form of floating breakwater	200	Low	Medium	Long	Large	Irreversible	Partial	Moderate	Moderate
T3	Travelers along Nam Long Shan Road	Existing breakwaters, proposed breakwaters	550	High	Short	Short	Medium	Irreversible	Partial	Slight	Slight
T4	Travelers along Ap Lei Chau Praya Road	Existing breakwaters, proposed breakwaters	400	High	Short	Short	Medium	Irreversible	Partial	Slight	Slight

KVP ID.	KVP	Source of Visual Impact	Approx. Viewing Distance (m)	Compatibility of the Project with the Surrounding Landscape (High/ Medium/ Low)	Duration of Impacts (Long/ Medium/ Short)		Scale of Development (Large/ Medium/ Small)	Reversibility of change (Reversible/ Irreversible)	Potential Blockage of View (Full/ Partial/ Nil)	Magnitude of Change (Substantial/ Moderate/ Slight / Negligible)	
					Construction	Operation				Construction	Operation
T5	Travelers along Shum Wan Road	Nil	550	Nil	Nil	Nil	Nil	Nil	Nil	Negligible	Negligible
REC1	Recreational Visitors of Fullerton Hotel	Existing breakwaters, proposed breakwaters and proposed wave wall in the form of floating breakwater	250	Medium	Medium	Long	Large	Irreversible	Partial	Substantial	Substantial
REC2	Recreational Visitors of Water World Ocean Park	Existing breakwater, proposed breakwaters and proposed wave wall in the form of floating breakwater	300	Medium	Medium	Long	Large	Irreversible	Partial	Substantial	Moderate

Significance of Unmitigated Visual Impact

7.4.13 The significance of visual impact, before implementation of mitigation measures, at operation phase remain unchanged from the approved EIA. They are presented in **Table 7.4**. All impacts are adverse unless otherwise noted with beneficial.

7.4.14 The magnitude of impacts during operation phase was assessed based on the viewing distance, compatibility of the Project with the surrounding landscape, duration of impacts, scale of development, reversibility of change and potential blockage of view.

7.4.15 The magnitude of visual change before mitigation for the mid and close range KVPs is perceived to range from slight to substantial. The perceived magnitude of change for the distant KVPs range from negligible to slight. The impact for each KVPs remain unchanged as described for the former VSRs in **Section 9.7.16** to **9.7.22** of the approved EIA.

7.5 Landscape and Visual Mitigation Measures

Landscape and Aesthetic External Design Measures in the Proposed Scheme

7.5.1 The mitigation measures during construction as identified in the approved EIA Report are considered still applicable to the landscape impacts, and the mitigation measures during operation are still applicable to both landscape and visual impacts as summarised in **Table 7.5** and **Table 7.6** below. The mitigation measures proposed would be further reviewed and consents from relevant governmental department and project stakeholders would be sought at the detail design stage of the Project. The implementation of the proposed landscape and visual mitigation measures are shown in **Figure 7.11 – 7.18**.

Table 7.5 Proposed Landscape Mitigation Measures for Construction Phase

ID No.	Landscape Mitigation Measures	Funding Agency	Implementation Agency
CM1	Programming and phasing of construction works	Project proponent	Project proponent /Contractor
CM2	Preservation of existing trees and other vegetation	Project proponent	Project proponent /Contractor
CM3	Erection of Decorative Screen Hoardings	Project proponent	Project proponent /Contractor

Table 7.6 Proposed Landscape and Visual Mitigation Measures for Operation Phase

ID No.	Landscape and Visual Mitigation Measures	Funding Agency	Implementation Agency	Maintenance/ Management Agency
OM1 (applicable to both landscape and visual mitigation)	Provision of sensitive designs for publicly accessible areas, open spaces and associated access	Project proponent	Project proponent/ Contractor	Project proponent/ LCSD
OM2 (applicable to both landscape and visual mitigation)	Regular maintenance of publicly accessible areas, open spaces and associated access	Project proponent	Project proponent/ Contractor	LCSD
OM3 (applicable to visual mitigation)	Provision of sensitive design for infrastructural structures	Project proponent	Project proponent/ Contractor	CEDD/ LCSD

Programme of Implementation of Landscape and Visual Mitigation Measures

7.5.2 There is no change to the proposed construction phase mitigation measures from the EIA, as listed above, they should be adopted from the commencement of construction and should be in place throughout the construction period, while the operation phase mitigation measures listed above should be adopted during detailed design stage and should be built as part of the construction works at the last stage of the construction period so that they are in place at the date of commissioning of the Project. A tentative programme of the implementation of the aforesaid mitigation measures is included in the **Table 7.5** and **Table 7.6** above.

Design Intent of the Proposed Open Space

7.5.3 There is no major change to the open space design concept or intent under the variation scheme. A main variation occurs at the new western and eastern breakwater, involving the addition of landing facilities for public (eastern) and maintenance agents (western) access. Other minor variations include the narrowing of the proposed publicly accessible renovated existing eastern breakwater. These variations are deemed to be compatible and within the extent of assessed changes under the approved EIA.

7.6 Residual Impact

7.6.1 Under this variation scheme, a slight change in landscape impact shall arise. Among the updated tree survey of approx. 1,080 nos. of existing trees, 1 no. of existing tree,

will be unavoidably affected by the proposed variation. The affected tree is a *Roystonea regia* with a height of 7m under poor grown condition. None of them are OVT or TPI.

7.6.2 Approximately 1,079 nos. of existing trees can be retained in the revised design.

7.6.3 The loss of 1 no. affected tree to be felled under this variation scheme shall be compensated by a heavy standard tree planting within the Ocean Park premise. The summary of the tree information of the updated proposal in included under **Appendix 7.1**.

7.6.4 Upon proper implementation of mitigation measures for construction and operation phases as stated in **Table 7.7**, it is expected landscape impact shall ultimately be mitigated to an acceptable level at operation as assessed under the approved EIA report. (**Table 7.2** refers)

Landscape Resources & Landscape Character Areas

7.6.5 There is no change to the residual impact assessment from the approved EIA.

Visual Impact

Residual impact to KVPs

7.6.6 There is no change to the potential significance of the visual impact before and after mitigation during operation phase as listed in **Table 7.4**.

7.6.7 Though view at T1 (VP1) would experience slight change from the approved EIA, the impact significance before and after mitigation at operation will remain as slight as the open sea view remains unobstructed.

Table 7.7 Significance of Landscape Impact during Construction and Operation Phases

ID No.	Landscape Resource / Character Areas	Sensitivity (Low, Medium, High)	Magnitude of Change (Negligible, Slight, Moderate, Substantial)	Impact Significance before Mitigation (Insubstantial, Slight, Moderate, Substantial)	Recommended Mitigation Measures	Significance of Residual Impact (Insubstantial, Slight, Moderate, Substantial)		
						Construction	Operation	
							Day 1	Year 10
Landscape Resources (LR)								
LR1	Coastal Landscape	Medium	Negligible	Insubstantial	N/A	Insubstantial	Insubstantial	Insubstantial
LR2	Rocky Shore	Low	Slight	Insubstantial/ Slight	CM1, CM2	Insubstantial/ Slight	Insubstantial/ Slight	Insubstantial
LR3	Sandy Shore	Medium	Negligible	Insubstantial	N/A	Insubstantial	Insubstantial	Insubstantial
LR4	Shrubland	Medium	Negligible	Insubstantial	N/A	Insubstantial	Insubstantial	Insubstantial
LR5	Artificial Seawall	Low	Moderate	Slight/ Moderate	CM1, CM2, OM3	Slight/ Moderate	Slight/ Moderate	Slight
LR6	Developed Area	Low	Slight	Insubstantial/ Slight	CM1, OM1, OM3	Insubstantial/ Slight	Insubstantial/ Slight	Insubstantial
LR7	Open Water	High	Slight	Moderate	CM1, OM3	Moderate	Moderate	Slight
Landscape Character Area (LCA)								
LCA1	Coastal Protection Area	Medium	Slight	Slight/ Moderate	CM1, CM2	Slight/ Moderate	Slight/ Moderate	Insubstantial/ Slight
LCA2	Governmental Land Use	Low	Negligible	Insubstantial	N/A	Insubstantial	Insubstantial	Insubstantial
LCA3	Green Belt	High	Negligible	Insubstantial	N/A	Insubstantial	Insubstantial	Insubstantial
LCA4	Industrial	Low	Negligible	Insubstantial	N/A	Insubstantial	Insubstantial	Insubstantial
LCA5	Developed Area - Other Uses	Low	Negligible	Insubstantial	N/A	Insubstantial	Insubstantial	Insubstantial
LCA6	Typhoon Shelter	Low	Slight	Insubstantial/ Slight	N/A	Insubstantial/ Slight	Insubstantial/ Slight	Insubstantial
LCA7	Open Water	High	Substantial	Substantial	N/A	Substantial	Substantial	Moderate/ Substantial

Table 7.8 Significance of Visual Impact during Operation Phase

KVP ID.	Location of KVP	Sensitivity (High / Medium / Low)	Magnitude of Change (Substantial/ Moderate/ Slight / Negligible)	Impact Significance before Mitigation (Insubstantial, Slight, Moderate, Substantial)	Recommended Mitigation Measures	Significance of Residual Impact after Mitigation (Insubstantial, Slight, Moderate, Substantial)
T1	Walkway at Tai Shue Wan	Medium	Moderate	Moderate	OM1, OM2, OM3	Slight
T2	Ocean Drive	Low	Moderate	Moderate	OM1, OM2, OM3	Slight
T3	Nam Long Shan Road	Low	Slight	Slight	OM1, OM2, OM3	Insubstantial
T4	Ap Lei Chau Praya Road	Low	Slight	Slight	OM1, OM2, OM3	Insubstantial
T5	Shum Wan Road	Low	Negligible	Insubstantial	N/A	Insubstantial
REC1	Fullerton Hotel	High	Substantial	Substantial	OM1, OM2, OM3	Slight
REC2	Water World Ocean Park	Medium	Moderate	Moderate	OM1, OM2, OM3	Slight

7.7 Cumulative Impacts

7.7.1 As mentioned in the approved EIA's Section 2.13 and Table 2.10, and relevant project profiles and EIA study briefs, given the large separation distances between the projects and ATS expansion area, the potential concurrent marine-based projects are not anticipated to result in adverse cumulative impacts and shall remain unchanged.

7.8 Environmental Monitoring and Audit Requirements

7.8.1 The objectives and requirements of EM&A for the construction of the Project have been summarised in the relevant section of the approved EIA Report and detailed in the associated EM&A Manual.

7.9 Conclusion

7.9.1 The Varied Scheme would not result in further adverse landscape impacts, and no additional mitigation measure is required. The requirements in relation to landscape set out in the approved EIA Report would not be exceeded or violated. The visual impacts are updated and assessed in accordance with the latest EIAO-TM and EIAO GN No. 8/2023, and the visual impacts of the Varied Scheme would remain to be acceptable with mitigation measures as per recommended under the Approved Scheme.

8 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

8.1 Objectives and Requirements

8.1.1 The objectives and requirements of EM&A for the construction and operation of the Project have been summarised in Section 11 of the approved EIA Report and detailed in the associated EM&A Manual.

8.2 Change in EM&A Requirements Associated with Proposed Design Changes

8.2.1 Based on the findings of environmental review conducted above, the EM&A requirements proposed in the approved EIA Report would remain applicable to the proposed changes. No change to the environmental monitoring requirement is deemed necessary.

9 REVIEW OF POTENTIAL MATERIAL CHANGE

9.1.1 A review of the potential environmental impacts due to the proposed changes have been conducted, as detailed in **Sections 2** to **7**. Findings of the review are summarised in **Table 9.1** below.

Table 9.1 Summary of Potential Environmental Impacts due to the Proposed Design Changes

Environmental Impacts	Review Findings
Air Quality Impact	According to **Section 2.3**, no adverse air quality impacts from the proposed design changes are expected and no additional mitigation measures are required. The requirements in relation to air quality set out in the approved EIA Report would not be exceeded or violated due to the proposed design changes.
Noise Impact	According to **Section 2.3**, no adverse noise impacts are anticipated with the proposed design changes. According to the EP, a Construction Noise Management Plan (CNMP) shall be deposited before the commencement of construction works of the Project. All associated changes will be reflected in the CNMP for assessment. The requirements in relation to noise set out in the approved EIA Report would not be exceeded or violated due to the proposed design changes.
Water Quality Impact	A review on the potential water quality impacts due to the proposed design changes has been conducted and presented in **Section 3.** The review concluded that the findings of the approved EIA Report and EM&A requirements are considered still valid. The requirements in relation to water quality set out in the approved EIA Report would not be exceeded or violated due to the proposed design changes.
Waste Management Implications	For construction phase, referring to **Section 4**, provided that the waste is handled, transported and disposed of according to the mitigation measures recommended in the approved EIA Report and ERR, adverse environmental impacts are not expected. The findings of the approved EIA Report under construction phase remain valid with the proposed design changes. For operation phase, referring to **Section 2.3.10**, as the proposed design changes will not alter the extent of the marine portion of the Project area and the sheltered space of the ATS expansion area remains the same, the amount of waste estimated in the approved EIA Report will remain the same. No additional waste management implications impacts are anticipated during operation phase. Given the above, the requirements in relation to waste management set out in the approved EIA Report would not be exceeded or violated due to the proposed design changes.

Environmental Impacts	Review Findings
Ecological Impact	For construction phase, referring to **Section 5**, given that the proposed design changes are not expected to result in a significant increase in the scale of marine works, the small marine habitat loss and impact on habitats of very low to low ecological value, with low diversity and abundance of marine organism affected, as well as implementation of mitigation measures and good site practices, the findings of the approved EIA Report under construction phase remain valid with the proposed design changes. For operation phase, referring to **Section 5**, given that the Project boundary has only been slightly amended under the proposed design changes and no increase of working vessels anticipated, and that no additional structures that potentially permanently shading the water column, as well as the Project area is already subject to existing disturbance, with low diversity and abundance subtidal organisms recorded, the findings of the approved EIA Report under operation phase remains valid with the proposed design changes. Overall, the ecological impact anticipated from the latest Project design would be similar to that of the approved EIA Report, which would be acceptable, and no adverse ecological impact is expected from the proposed design changes.
Fisheries Impact	According to **Section 6**, the overall fisheries impact with the proposed design changes is anticipated to be similar to that in the approved EIA Report. With the proper implementation of recommended mitigation measures from the approved EIA Report, no adverse fisheries impacts are expected from the proposed design changes. The requirements in relation to fisheries set out in the approved EIA Report would not be exceeded or violated due to the proposed design changes.
Landscape and Visual Impact	The proposed design changes would not result in further adverse landscape impacts, and no additional mitigation measure is required. The requirements in related to landscape set out in the approved EIA Report would not be exceeded or violated. The visual impacts are assessed in accordance with the latest EIAO-TM and EIAO GN No. 8/2023, and the visual impacts of the Varied Scheme would remain to be acceptable with mitigation measures as the Approved Scheme.
Cultural Heritage Impact	Referring to **Section 2.3.6**, no further impacts on cultural heritage resources due to the proposed design changes are anticipated. The requirements in relation to cultural heritage set out in the approved EIA Report would not be exceeded or violated due to the proposed design changes.

9.1.2 Based on the review, with the implementation of the mitigation measures recommended in the approved EIA Report, the proposed design changes would not cause the environmental impacts of the Project to exceed or violate the environmental

requirements set out in the approved EIA Report. Therefore, the environmental impacts of the Project are not considered to be materially changed as defined in Section 6.2 of the EIAO-TM.

10 CONCLUSION

10.1.1 An environmental review has been conducted for the proposed design changes. The potential environmental issues pertinent to the proposed changes have been reviewed in **Sections 2** to **7** of this ERR. It is concluded that the proposed design changes of the Project would not result in adverse environmental impacts with the implementation of the recommended mitigation measures in the approved EIA Report. No additional environmental monitoring and audit requirements are required.

10.1.2 A review has been conducted to determine whether the proposed design change constitutes a material change, based on the requirements stipulated in Section 6.2 of the EIAO-TM. The review demonstrates that the proposed design changes would not result in a material change under the EIAO.

10.1.3 The proposed variations of the EP are shown in **Table 10.1** below.

Table 10.1 Proposed Variations of the EP

Relevant Conditions in the Current EP	Proposed Variations
Figure 1	Figure 1 is proposed to be revised with the incorporation of the proposed design changes (i.e. the amended Project boundary with the proposed landing platform, revised configurations of the proposed breakwaters and the shortened wave wall in the form of floating breakwater).
Part B (Description of Designated Project) – Scale and Scope of Designated Project (Item (ii)): (ii) Construction of approximately 110 m in length wave wall in the form of floating breakwater;	Item (ii) of the Scale and Scope of Designated Project proposed to be amended as: (ii) Construction of approximately **80** m in length wave wall in the form of floating breakwater;

Figures

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ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:

811400 N
834200 E
834800 E
835400 E
810800 N
810200 N

EXISTING ABERDEEN SOUTH TYPHOON SHELTER
YUK KWAI SHAN
193m
MODIFICATION OF EXISTING EASTERN BREAKWATER
276m
SHORTENING AND MODIFICATION OF EXISTING WESTERN BREAKWATER
80m
WAVE WALL IN THE FORM OF FLOATING BREAKWATER
ABERDEEN CHANNEL
LAND ACCESS
LANDING PLATFORM
OCEAN PARK
LANDING FACILITIES
WESTERN BREAKWATER
WESTERN BREAKWATER (LANDFALL)
300m
340m
EASTERN BREAKWATER (LANDFALL)
EASTERN BREAKWATER
AP LEI PAI
SHAM SHUI KOK

N

NOTE:

1. THE LAYOUT PLAN IS INDICATIVE ONLY AND THE DETAILS OF WORKS ARE SUBJECT TO FUTURE DETAILED DESIGN.

LEGEND:

- UPDATED PROJECT BOUNDARY
- ORIGINAL PROJECT BOUNDARY
- EXISTING BREAKWATER TO BE MODIFIED
- UPDATED CONFIGURATION OF BREAKWATERS
- ORIGINAL BREAKWATER
- LANDING PLATFORM
- LAND ACCESS
- PROPOSED LANDING FACILITIES

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PROJECT
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EXPANSION OF ABERDEEN TYPHOON SHELTER - INVESTIGATION, DESIGN AND CONSTRUCTION

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CEDD Civil Engineering and Development Department

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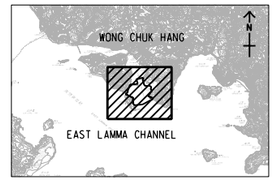
I/R 修訂	DATE 日期	DESCRIPTION 內容說明	CHK. 核對

STATUS
階段

SCALE 比例
A1 1 : 3000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 100000



PROJECT NO. 項目編號
60684361

CONTRACT NO. 合約編號
CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

KEY VARIATIONS IN PROJECT SCOPE FROM THE EIA

SHEET NUMBER
圖紙編號

60684361/ERR/FIGURE 2.1

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12/2/2025
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ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

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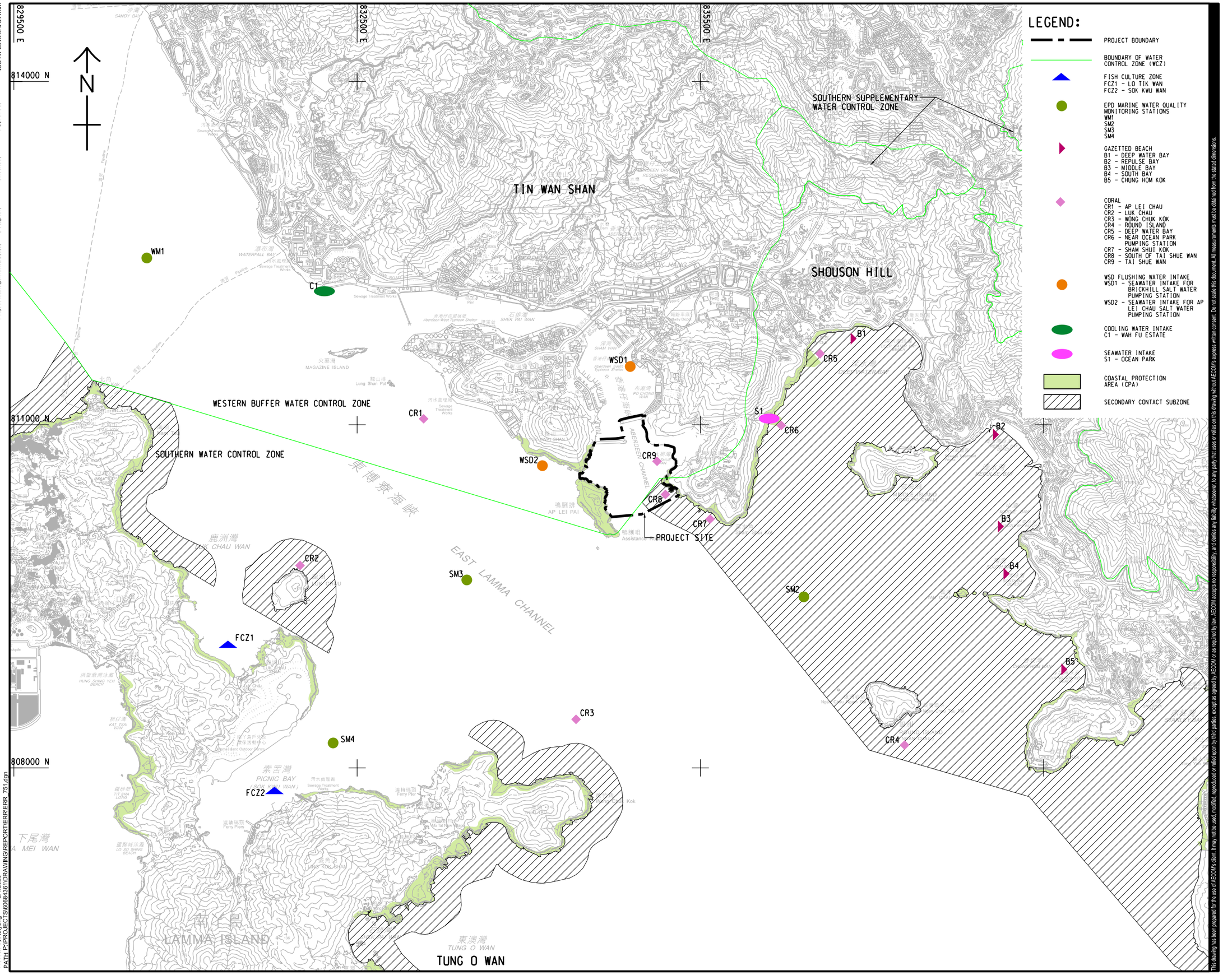

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PROJECT
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EXPANSION OF ABERDEEN TYPHOON SHELTER - INVESTIGATION, DESIGN AND CONSTRUCTION

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I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對

STATUS
階段

SCALE 比例
A1 1 : 15000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60684361

CONTRACT NO. 合約編號
CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

LOCATIONS OF WATER SENSITIVE RECEIVERS

SHEET NUMBER
圖紙編號

60684361/ERR/FIGURE 3.1

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

811400 N

834200 E

834800 E

835400 E

810800 N

810200 N

EXISTING ABERDEEN
SOUTH TYPHOON SHELTER

YUK KWAI SHAN

MODIFICATION OF EXISTING
EASTERN BREAKWATER

SHORTENING AND MODIFICATION OF
EXISTING WESTERN BREAKWATER

WAVE WALL IN THE FORM OF
FLOATING BREAKWATER

ABERDEEN CHANNEL

LANDING PLATFORM

LAND ACCESS

LANDING
FACILITIES

WESTERN BREAKWATER

AP LEI PAI

WESTERN BREAKWATER
(LANDFALL)

EASTERN
BREAKWATER

EASTERN BREAKWATER
(LANDFALL)

SHAM SHUI KOK

N

LEGEND:

- PROJECT BOUNDARY
- FULL DREDGING
- SURFACE DREDGING UNDER SEABED LEVEL BEFORE DCM TO MAXIMUM 3m BELOW SEABED LEVEL
- LAND ACCESS
- PROPOSED LANDING FACILITIES

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EXPANSION OF ABERDEEN TYPHOON SHELTER - INVESTIGATION, DESIGN AND CONSTRUCTION

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狀況

SCALE 比例: A1 1 : 3000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN
索引圖

PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

UPDATED LAYOUT PLAN AND LOCATION OF DREDGING EXTENT

SHEET NUMBER
圖紙編號

60684361/ERR/FIGURE 4.1

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

LEGEND:

- PROJECT BOUNDARY
- 100m ASSESSMENT AREA
- LCA1 – COASTAL PROTECTION AREA
- LCA2 – GOVERNMENTAL
- LCA3 – GREEN BELT
- LCA4 – INDUSTRIAL
- LCA5 – DEVELOPED AREA (OTHER USES)
- LCA6 – TYPHOON SHELTER
- LCA7 – OPEN WATER

834000 E

835000 E

836000 E

N

811000 N

810000 N

MODIFICATION OF EXISTING EASTERN BREAKWATER

SHORTENING AND MODIFICATION OF EXISTING WESTERN BREAKWATER

PROPOSED EXPANSION OF ABERDEEN TYPHOON SHELTER

PROPOSED WESTERN BREAKWATER

PROPOSED WAVE WALL IN THE FORM OF FLOATING BREAKWATER

PROPOSED LAND ACCESS

PROPOSED EASTERN BREAKWATER

AP LEI CHAU

TOMBOLO

ABERDEEN CHANNEL

SHAM WAN

ABERDEEN SOUTH TYPHOON SHELTER

PO CHONG WAN

TAI SHUE WAN

BRICK HILL (NAM LONG SHAN)

YUK KWAI SHAN

AP LEI PAI

Assistance Rock

Sham Shui Kok

Lei Tung Estate

Aberdeen Promenade

Ocean Park Hong Kong

Water World

Hong Kong Wetland Park

Aberdeen Tunnel

Aberdeen Tunnel Ventilation Building

Aberdeen Tunnel Administration Building

Aberdeen Fire Station

Aberdeen Police Station

Aberdeen Post Office

Aberdeen Jockey Club Clubhouse

Aberdeen Jockey Club Kindergarten

Aberdeen Jockey Club Jockey Club Secondary School

Aberdeen Jockey Club Jockey Club Primary School

Aberdeen Jockey Club Jockey Club Polyclinic

Aberdeen Jockey Club Jockey Club Sports Centre

Aberdeen Jockey Club Jockey Club Public Library

Aberdeen Jockey Club Jockey Club Multi-Purpose Complex

Aberdeen Jockey Club Jockey Club Multi-Purpose Complex Annex

Aberdeen Jockey Club Jockey Club Multi-Purpose Complex Annex 2

Aberdeen Jockey Club Jockey Club Multi-Purpose Complex Annex 3

Aberdeen Jockey Club Jockey Club Multi-Purpose Complex Annex 4

Aberdeen Jockey Club Jockey Club Multi-Purpose Complex Annex 5

Aberdeen Jockey Club Jockey Club Multi-Purpose Complex Annex

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

LEGEND:

- PROJECT BOUNDARY
- 100m ASSESSMENT AREA
- LR1 - COASTAL LANDSCAPE
- LR2 - ROCKY SHORE
- LR3 - SANDY SHORE
- LR4 - SHRUBLAND
- LR5 - ARTIFICIAL SEAWALL
- LR6 - DEVELOPED AREA
- LR7 - OPEN WATER

834000 E

835000 E

836000 E

N

811000 N

810000 N

MODIFICATION OF EXISTING EASTERN BREAKWATER

SHORTENING AND MODIFICATION OF EXISTING WESTERN BREAKWATER

PROPOSED EXPANSION OF ABERDEEN TYPHOON SHELTER

PROPOSED WESTERN BREAKWATER

PROPOSED WAVE WALL IN THE FORM OF FLOATING BREAKWATER

PROPOSED LAND ACCESS

PROPOSED EASTERN BREAKWATER

AP LEI CHAU

石排灣 SHEK PAI WAN

深灣 SHAM WAN

香港仔南避風塘 ABERDEEN SOUTH TYPHOON SHELTER

布廠灣 PO CHONG WAN

BRICK HILL (NAM LONG SHAN)

YUK KWAI SHAN

AP LEI PAI

TOMBOLO

大樹灣 TAI SHUE WAN

ABERDEEN CHANNEL

Sham Shui Kok

Assistance Rock

Lei Tauu Estate

Sham Wan Towers

Ocean Park Hong Kong

Water World

Aberdeen Promenade

Aberdeen Typhoon Shelter Floating Jetty

Aberdeen Typhoon Shelter Seawall

Aberdeen Typhoon Shelter Laundry

Aberdeen Typhoon Shelter Shipyard

Aberdeen Typhoon Shelter Slipway

Aberdeen Typhoon Shelter Breakwater

Aberdeen Typhoon Shelter Pier

Aberdeen Typhoon Shelter Floating Pontoon

Aberdeen Typhoon Shelter Floating Jetty

Aberdeen Typhoon Shelter Seawall

Aberdeen Typhoon Shelter Works in progress

Aberdeen Typhoon Shelter Piperail

Aberdeen Typhoon Shelter Pipeline

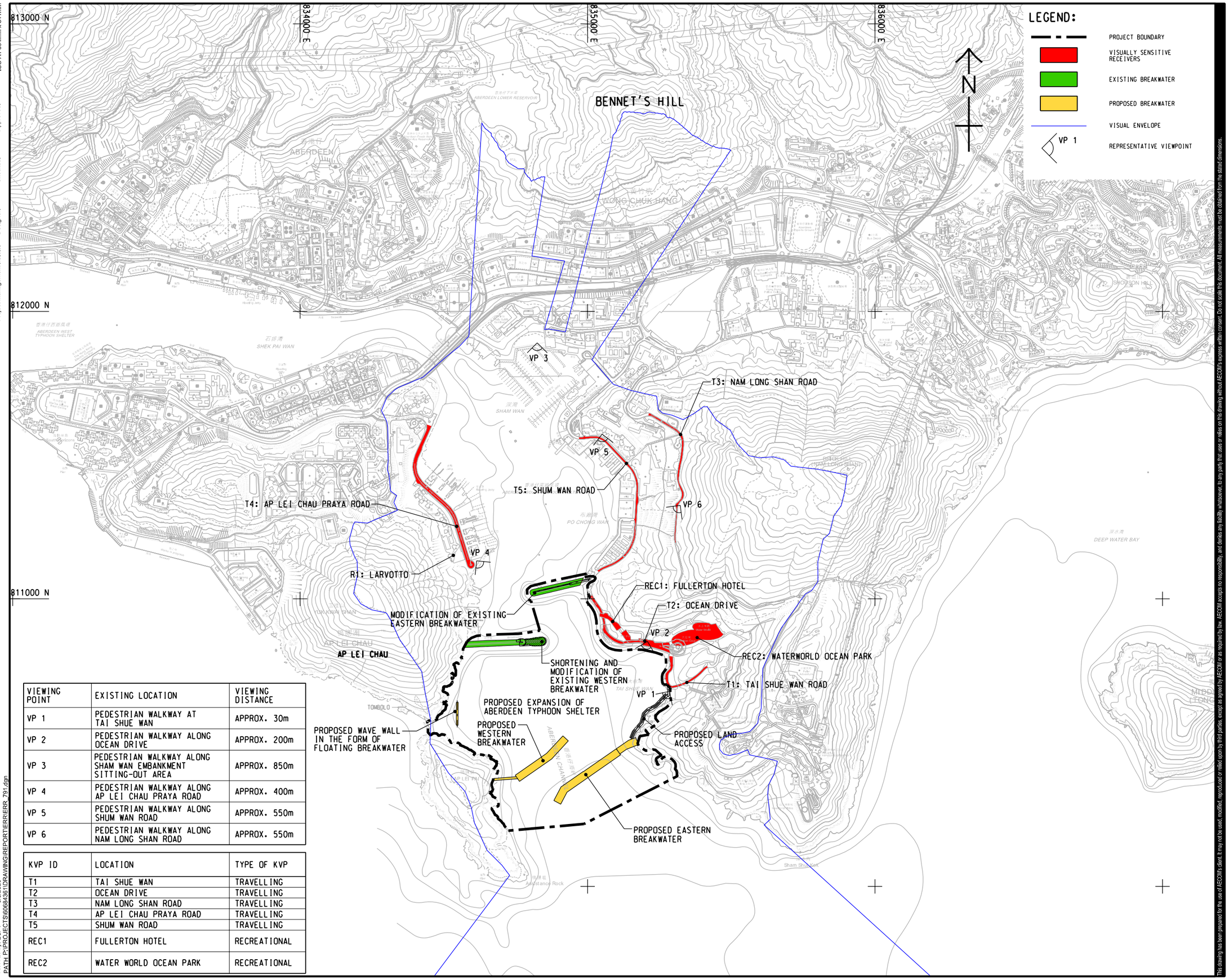
Aberdeen Typhoon Shelter Seawall

Aberdeen Typhoon Shelter Floating Jetty

Aberdeen Typhoon Shelter Seawall

Aberdeen Typhoon Shelter Seawall

Aberdeen Typhoon Shelter Seawall



VIEWING POINT	EXISTING LOCATION	VIEWING DISTANCE
VP 1	PEDESTRIAN WALKWAY AT TAI SHUE WAN	APPROX. 30m
VP 2	PEDESTRIAN WALKWAY ALONG OCEAN DRIVE	APPROX. 200m
VP 3	PEDESTRIAN WALKWAY ALONG SHAM WAN EMBANKMENT SITTING-OUT AREA	APPROX. 850m
VP 4	PEDESTRIAN WALKWAY ALONG AP LEI CHAU PRAYA ROAD	APPROX. 400m
VP 5	PEDESTRIAN WALKWAY ALONG SHUM WAN ROAD	APPROX. 550m
VP 6	PEDESTRIAN WALKWAY ALONG NAM LONG SHAN ROAD	APPROX. 550m

KVP ID	LOCATION	TYPE OF KVP
T1	TAI SHUE WAN	TRAVELLING
T2	OCEAN DRIVE	TRAVELLING
T3	NAM LONG SHAN ROAD	TRAVELLING
T4	AP LEI CHAU PRAYA ROAD	TRAVELLING
T5	SHUM WAN ROAD	TRAVELLING
REC1	FULLERTON HOTEL	RECREATIONAL
REC2	WATER WORLD OCEAN PARK	RECREATIONAL

AECOM

PROJECT
項目

EXPANSION OF ABERDEEN TYPHOON SHELTER - INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
CEDD Civil Engineering and Development Department

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STATUS
階段

SCALE 比例
A3 1 : 12000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60684361

CONTRACT NO. 合約編號
CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

PLAN OF VISUALLY SENSITIVE RECEIVERS, VISUAL ENVELOPE AND VIEWPOINTS

SHEET NUMBER
圖紙編號

60684361/ERR/FIGURE 7.3

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Project Management Initials:

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5/3/2026
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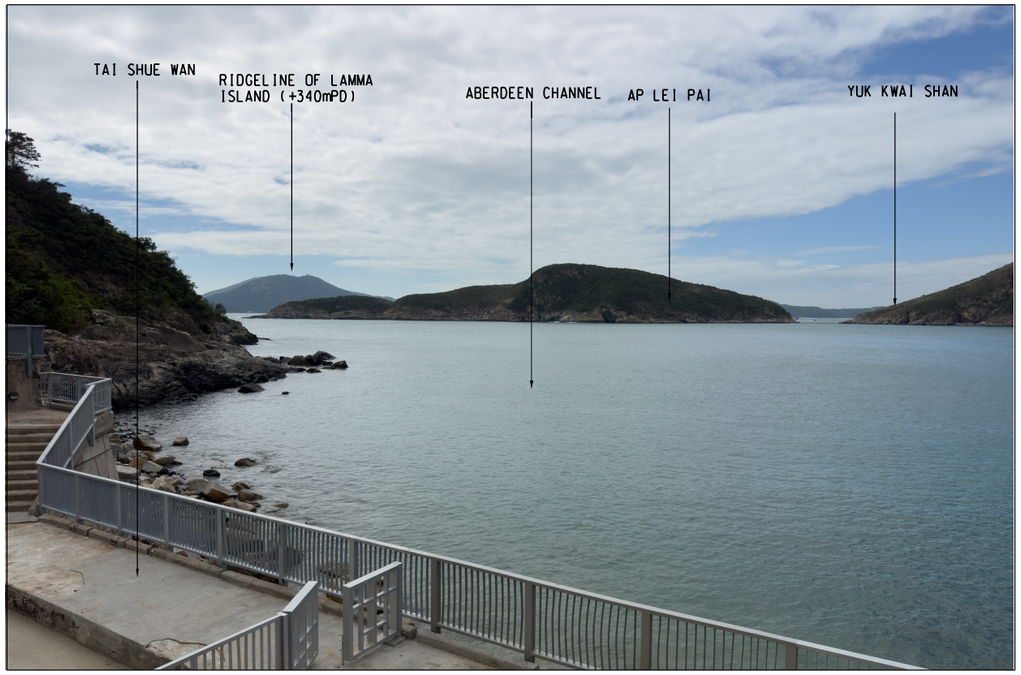
Project Management Initials:



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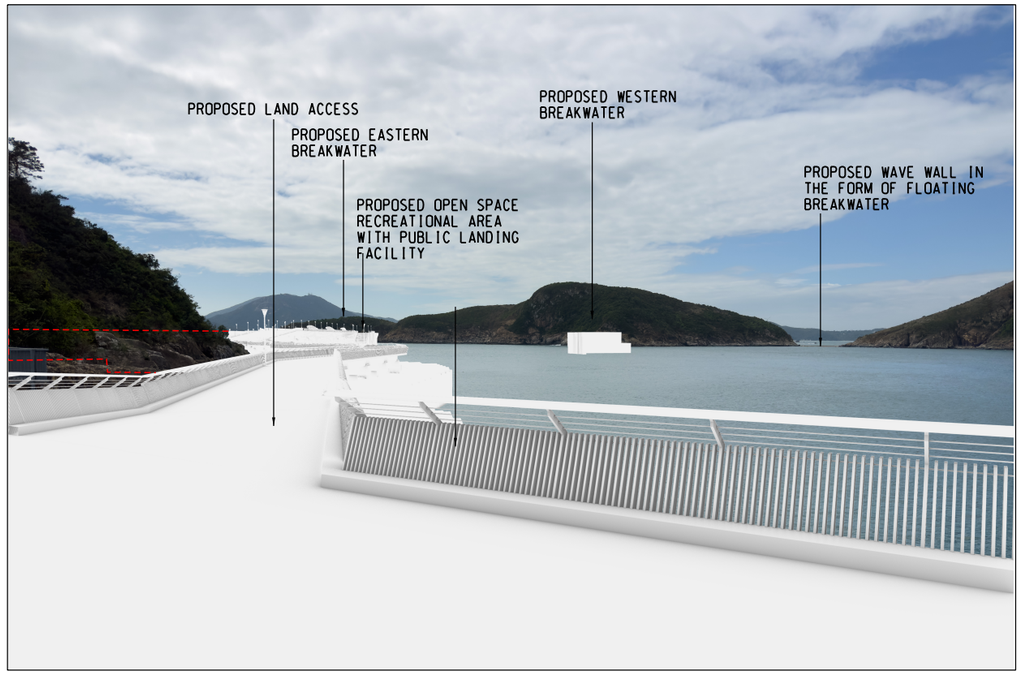
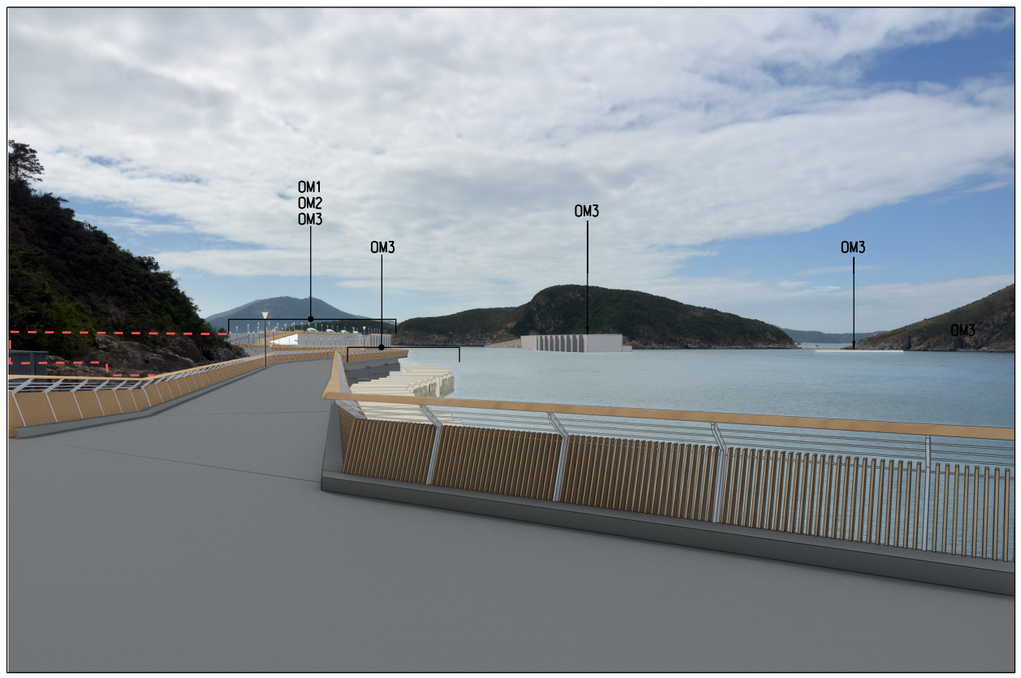
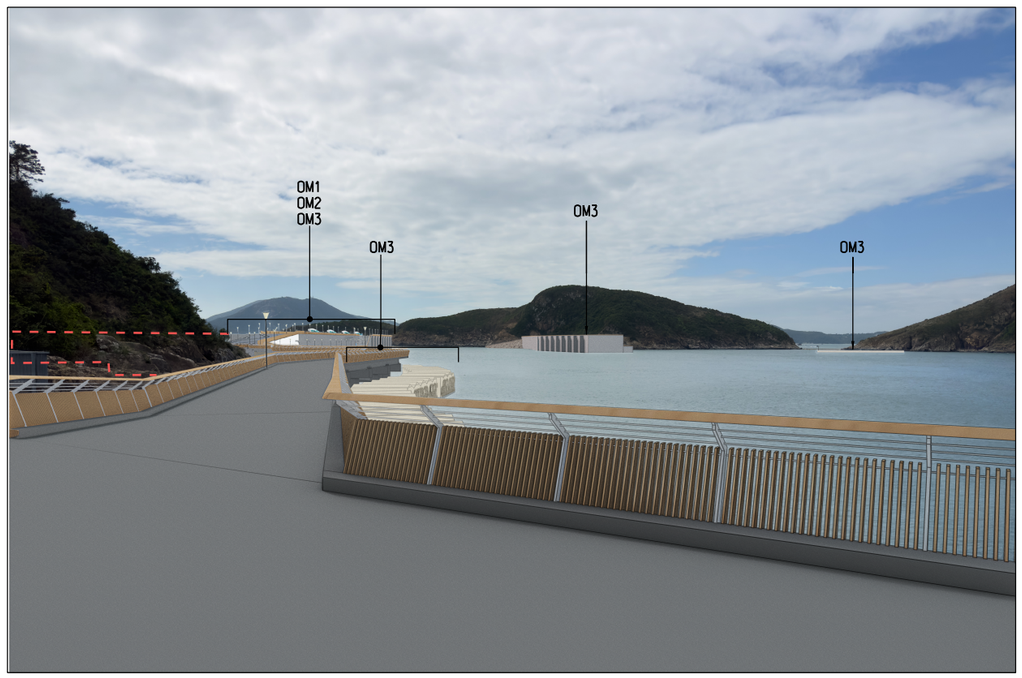


DAY 1 WITHOUT MITIGATION (OPERATION PHASE)



DAY 1 WITH MITIGATION (OPERATION PHASE)



YEAR 10 WITH MITIGATION (OPERATION PHASE)

MITIGATION MEASURES

OM1 - PROVISION OF SENSITIVE DESIGNS FOR PUBLICLY ACCESSIBLE AREAS, OPEN SPACES AND ASSOCIATED ACCESS
OM2 - REGULAR MAINTENANCE OF PUBLICLY ACCESSIBLE AREAS, OPEN SPACES AND ASSOCIATED ACCESS
OM3 - PROVISION OF SENSITIVE DEISGNS FOR INFRASTRUCTURAL STRUCTURES

LEGEND:

PROPOSED CONSTRUCTION OBSTRUCTED BY EXISTING LANDSCAPE

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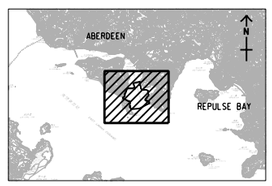
階段

SCALE 比例: A3 1 : 6000
DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361
CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱
VIEWS FROM VIEWING POINT 1

SHEET NUMBER
圖紙編號
60684361/ERR/FIGURE 7.4

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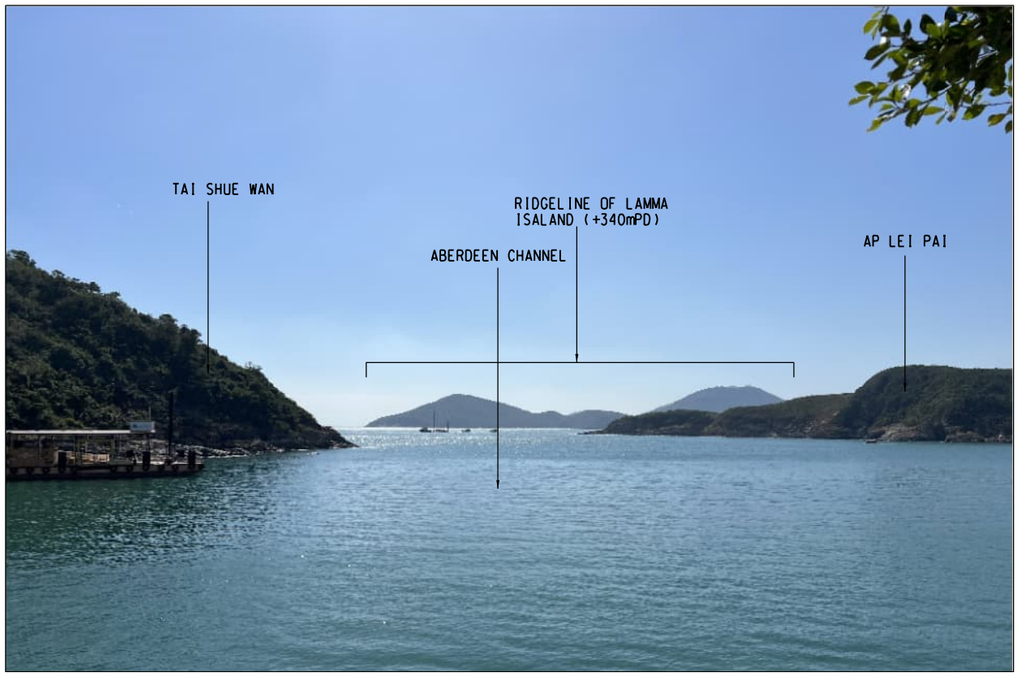
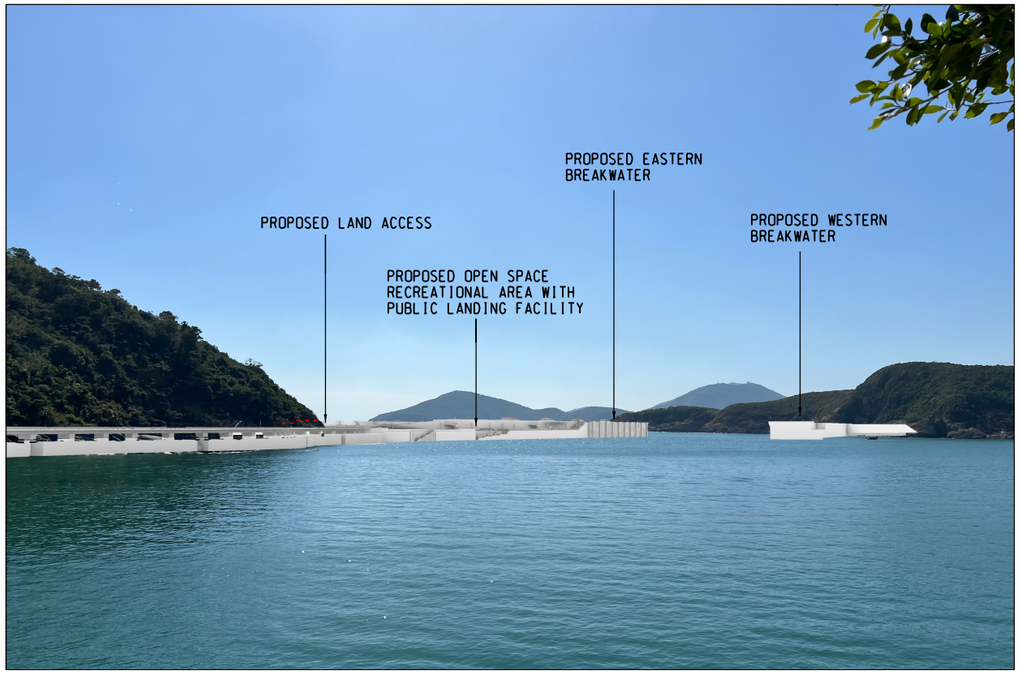
Plot File by: DuP1
27/2/2026
PATH: P:\PROJECTS\60684361\DRAWING\REPORT\ERR\ERR_7f2.dgn



EXISTING BASELINE CONDITION



DAY 1 WITHOUT MITIGATI (OPERATIONAL PHASE)



DAY 1 WITH MITIGATION (OPERATION PHASE)



YEAR 10 WITH MITIGATION (OPERATION PHASE)

MITIGATION MEASURES

OM1 - PROVISION OF SENSITIVE DESIGNS FOR PUBLICLY ACCESSIBLE AREAS, OPEN SPACES AND ASSOCIATED ACCESS
OM2 - REGULAR MAINTENANCE OF PUBLICLY ACCESSIBLE AREAS, OPEN SPACES AND ASSOCIATED ACCESS
OM3 - PROVISION OF SENSITIVE DEISGNS FOR INFRASTRUCTURAL STRUCTURES

LEGEND:

PROPOSED CONSTRUCTION OBSTRUCTED BY EXISTING LANDSCAPE

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

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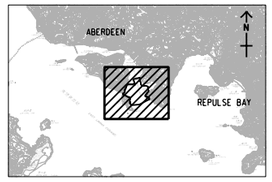
階段

SCALE 比例: A3 1 : 6000
DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



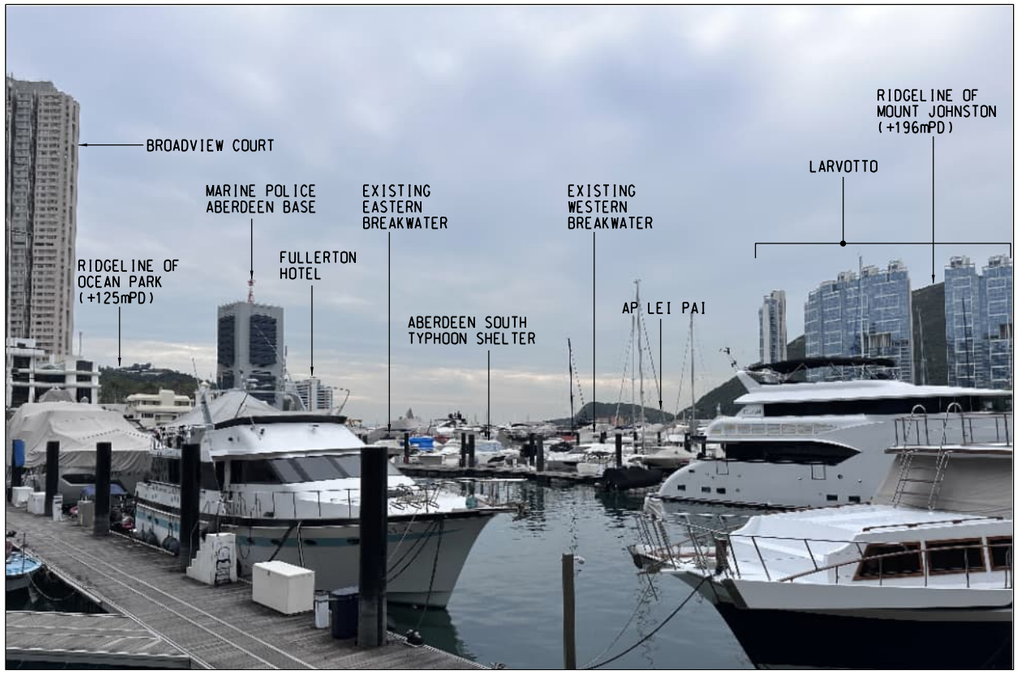
PROJECT NO. 項目編號: 60684361
CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

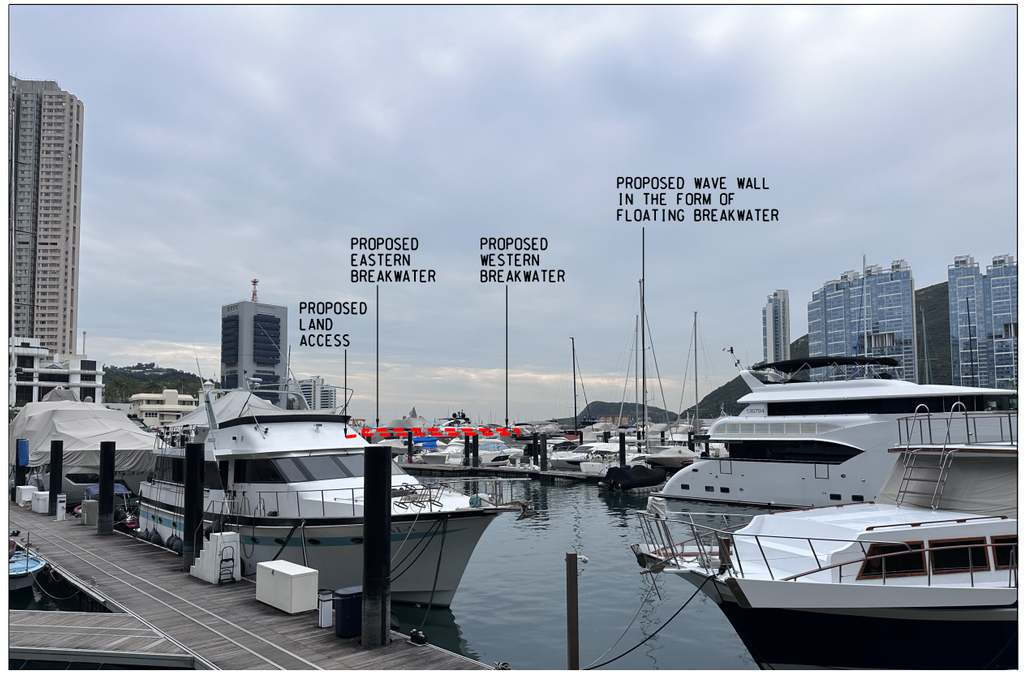
VIEWS FROM VIEWING POINT 2

SHEET NUMBER
圖紙編號

60684361/ERR/FIGURE 7.5



EXISTING BASELINE CONDITION



DAY 1 WITHOUT MITIGATION (OPERATION PHASE)



DAY 1 WITH MITIGATION (OPERATION PHASE)



YEAR 10 WITH MITIGATION (OPERATION PHASE)

LEGEND:

PROPOSED CONSTRUCTION OBSTRUCTED BY EXISTING LANDSCAPE

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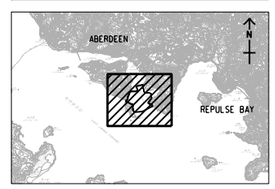
階段

SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

VIEWS FROM VIEWING POINT 3

SHEET NUMBER
圖紙編號

60684361/ERR/FIGURE 7.6

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:

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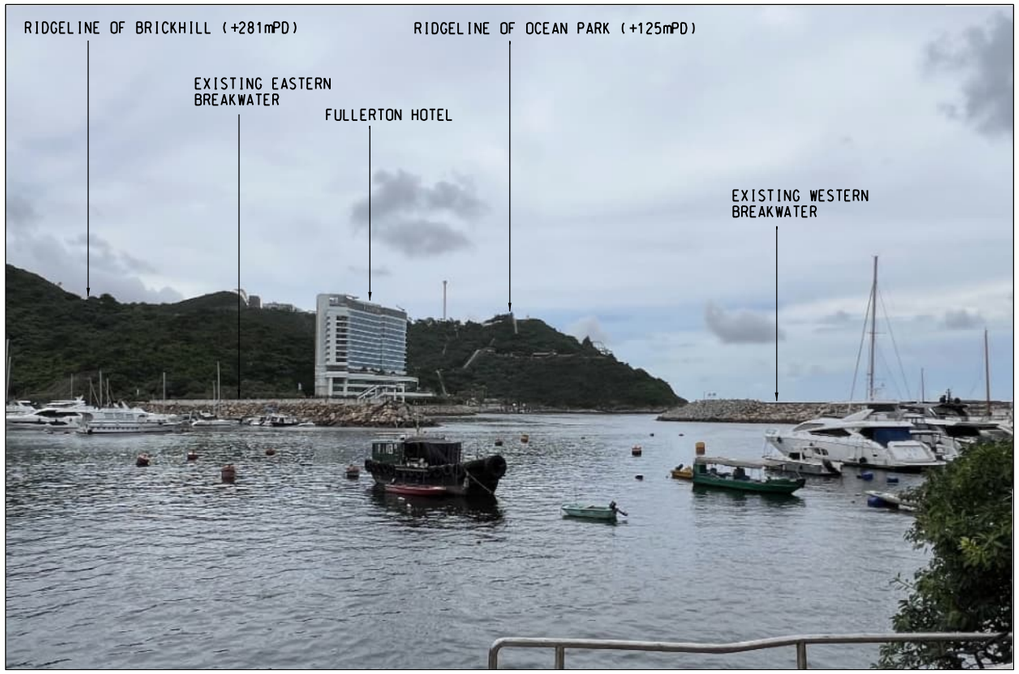
Plot File by: DuP1
27/2/2026
PATH: P:\PROJECTS\60684361\DRAWING\REPORT\ERR\ERR_794.dgn



EXISTING BASELINE CONDITION



DAY 1 WITHOUT MITIGATION (OPERATION PHASE)



DAY 1 WITH MITIGATION (OPERATION PHASE)



YEAR 10 WITH MITIGATION (OPERATION PHASE)

MITIGATION MEASURES

OM1 - PROVISION OF SENSITIVE DESIGNS FOR PUBLICLY ACCESSIBLE AREAS, OPEN SPACES AND ASSOCIATED ACCESS
OM2 - REGULAR MAINTENANCE OF PUBLICLY ACCESSIBLE AREAS, OPEN SPACES AND ASSOCIATED ACCESS
OM3 - PROVISION OF SENSITIVE DEISGNS FOR INFRASTRUCTURAL STRUCTURES

LEGEND:

PROPOSED CONSTRUCTION OBSTRUCTED BY EXISTING LANDSCAPE

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

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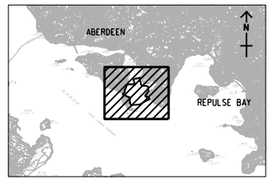
SCALE 比例: A3 1 : 6000
DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361
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SHEET TITLE
圖紙名稱

VIEWS FROM VIEWING POINT 4

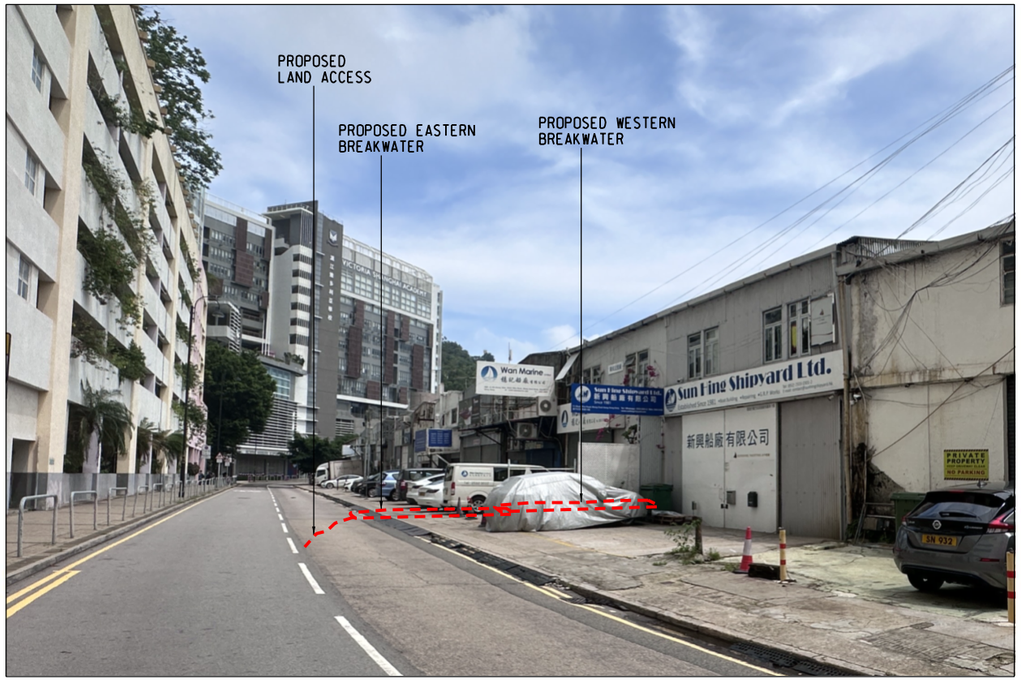
SHEET NUMBER
圖紙編號

60684361/ERR/FIGURE 7.7

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:



EXISTING BASELINE CONDITION



DAY 1 WITHOUT MITIGATION (OPERATION PHASE)



DAY 1 WITH MITIGATION (OPERATION PHASE)



YEAR 10 WITH MITIGATION (OPERATION PHASE)

LEGEND:

PROPOSED CONSTRUCTION OBSTRUCTED BY EXISTING LANDSCAPE

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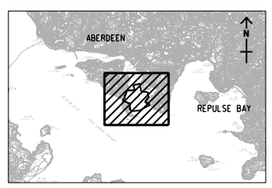
階段

SCALE 比例: A3 1 : 6000
DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361
CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

VIEWS FROM
VIEWING POINT 5

SHEET NUMBER
圖紙編號

60684361/ERR/FIGURE 7.8

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Plot File by: DuP1
27/2/2026
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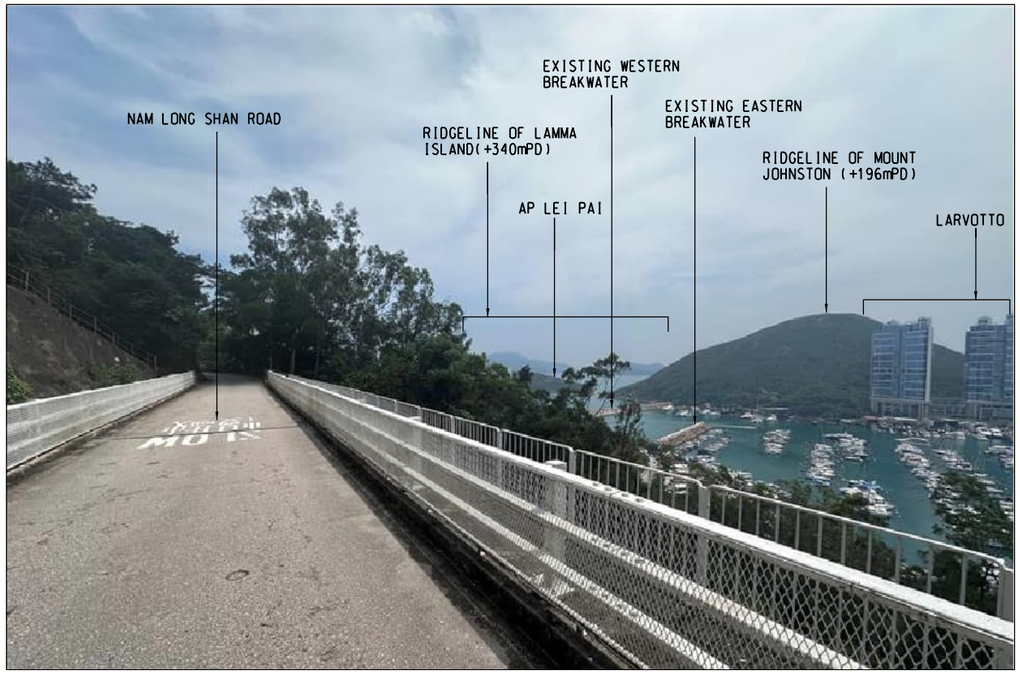
Approved:
Checked:
Designer:
Project Management Initials:



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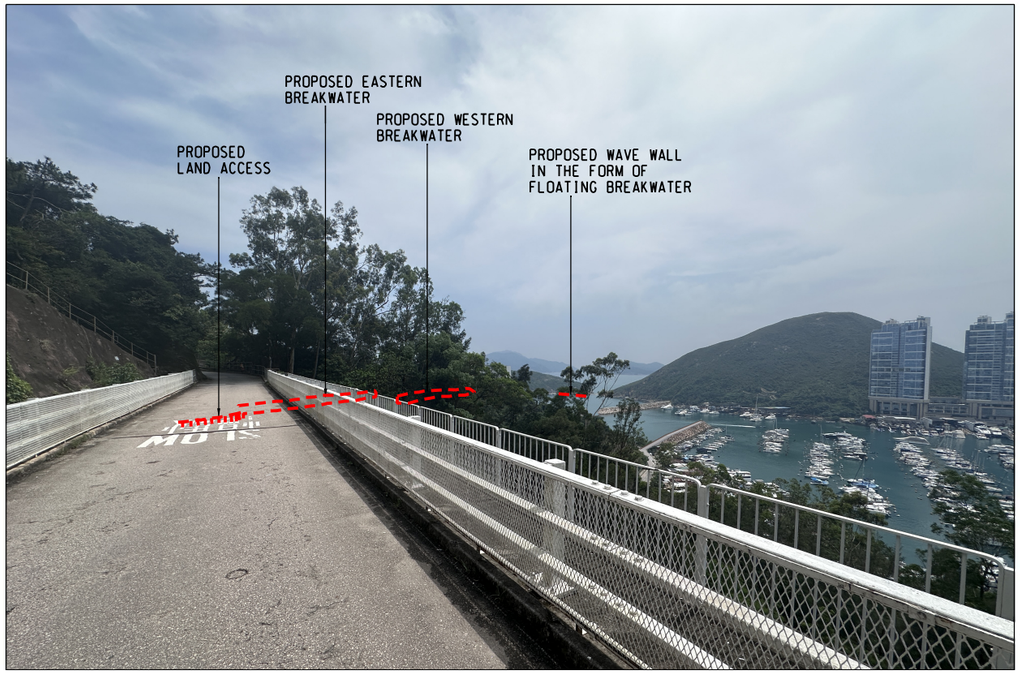

DAY 1 WITHOUT MITIGATION (OPERATION PHASE)



DAY 1 WITH MITIGATION (OPERATION PHASE)



YEAR 10 WITH MITIGATION (OPERATION PHASE)

MITIGATION MEASURES

OM1 - PROVISION OF SENSITIVE DESIGNS FOR PUBLICLY ACCESSIBLE AREAS, OPEN SPACES AND ASSOCIATED ACCESS
OM2 - REGULAR MAINTENANCE OF PUBLICLY ACCESSIBLE AREAS, OPEN SPACES AND ASSOCIATED ACCESS
OM3 - PROVISION OF SENSITIVE DESIGNS FOR INFRASTRUCTURAL STRUCTURES

LEGEND:

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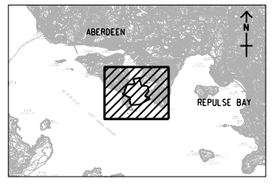
階段

SCALE 比例: A3 1 : 6000
DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361
CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱
VIEWS FROM VIEWING POINT 6

SHEET NUMBER
圖紙編號
60684361/ERR/FIGURE 7.9

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Plot File by: DuP1
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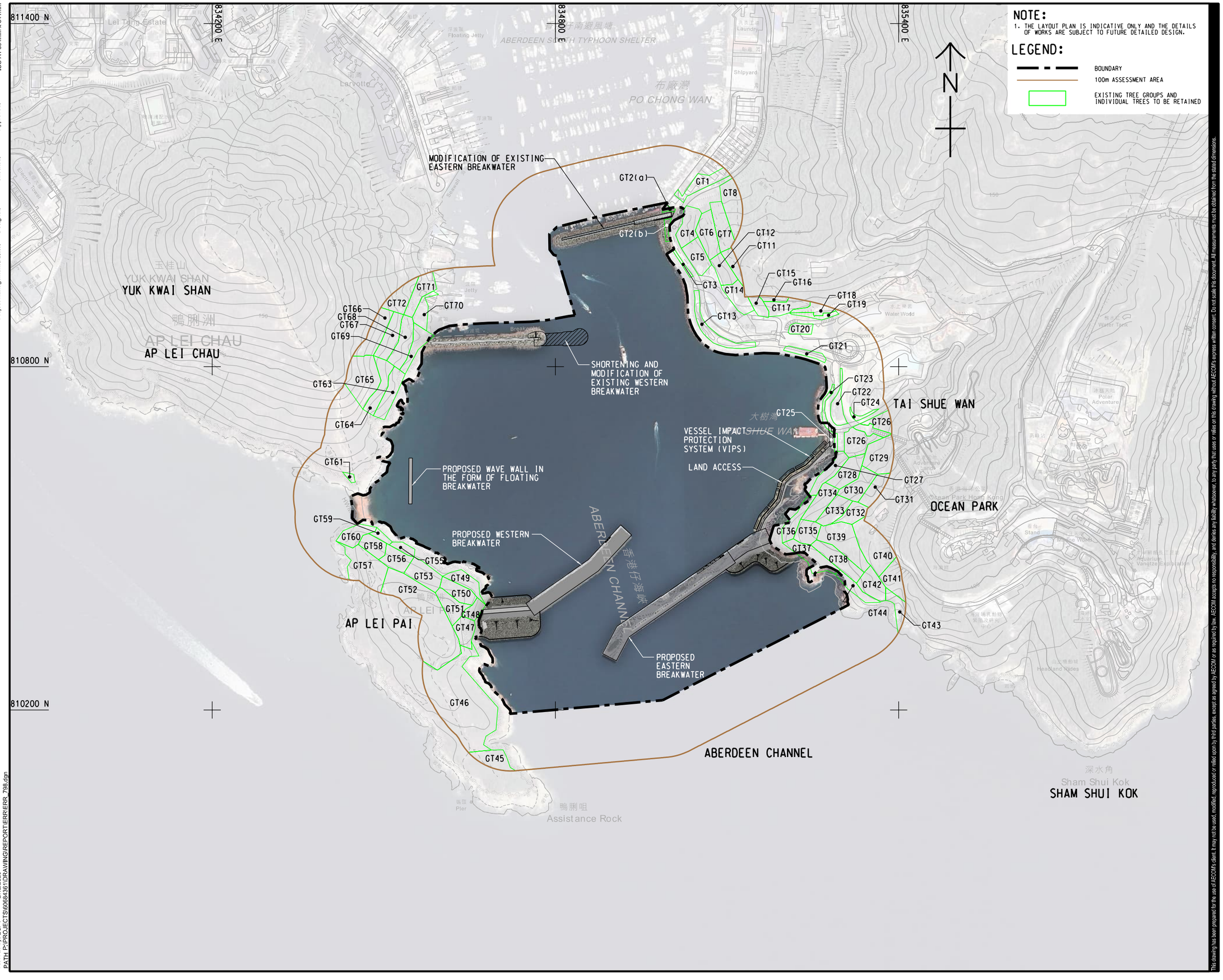
27/2/2026



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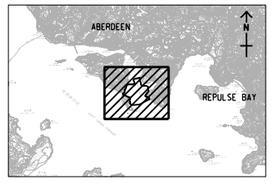
階段

SCALE 比例: A3 1 : 6000
DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖: A3 1 : 200000



PROJECT NO. 項目編號: 60684361
CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

LANDSCAPE MASTER PLAN

SHEET NUMBER
圖紙編號

60684361/ERR/FIGURE 7.10

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ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:

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Plot File by: DuP1 27/2/2026
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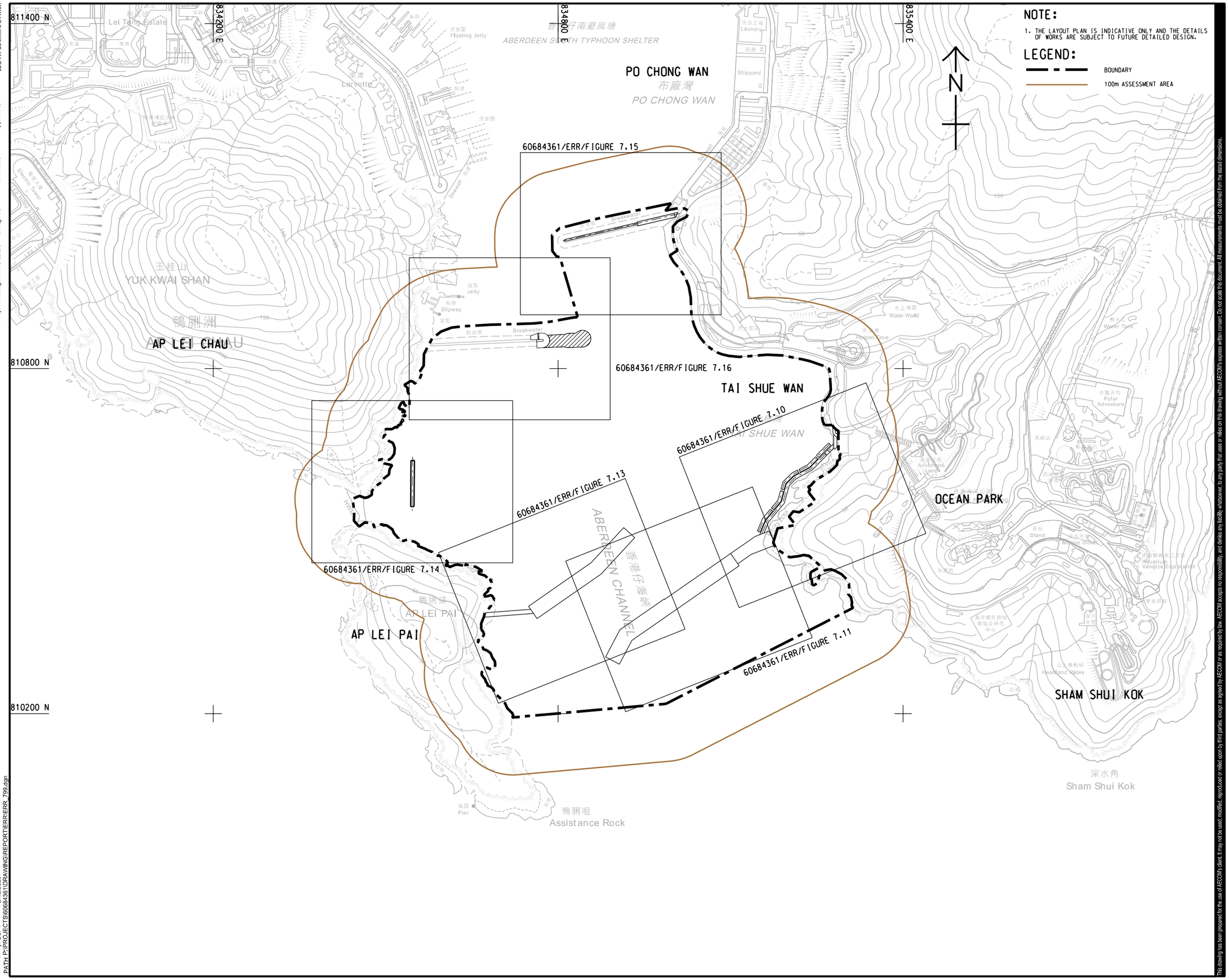

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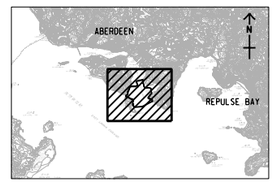
階段

SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖: A3 1 : 200000



PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

LANDSCAPE AND VISUAL MITIGATION MEASURE KEY PLAN

SHEET NUMBER
圖紙編號

60684361/ERR/FIGURE 7.11

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Approved:
Checked:
Designer:
Project Management Initials:

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Plot File by: DuP1 27/2/2026
PATH P:\PROJECTS\60684361\DRAWING\REPORT\ERR\ERR_799.dgn

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

ID NO.	LANDSCAPE MITIGATION MEASURES
CONSTRUCTION PHASE	
CM1	PROGRAMMING AND PHASING OF CONSTRUCTION WORKS
CM2	PRESERVATION OF EXISTING TREES AND OTHER VEGETATION
OPERATION PHASE	
OM1	PROVISION OF SENSITIVE DESIGNS FOR PUBLICLY ACCESSIBLE AREAS, OPEN SPACES AND ASSOCIATED ACCESS
OM2	REGULAR MAINTENANCE OF PUBLICLY ACCESSIBLE AREAS, OPEN SPACES AND ASSOCIATED ACCESS

ID NO.	VISUAL MITIGATION MEASURES
OPERATION PHASE	
OM1	PROVISION OF SENSITIVE DESIGNS FOR PUBLICLY ACCESSIBLE AREAS, OPEN SPACES AND ASSOCIATED ACCESS
OM2	REGULAR MAINTENANCE OF PUBLICLY ACCESSIBLE AREAS, OPEN SPACES AND ASSOCIATED ACCESS
OM3	PROVISION OF SENSITIVE DESIGNS FOR INFRASTRUCTURAL STRUCTURES

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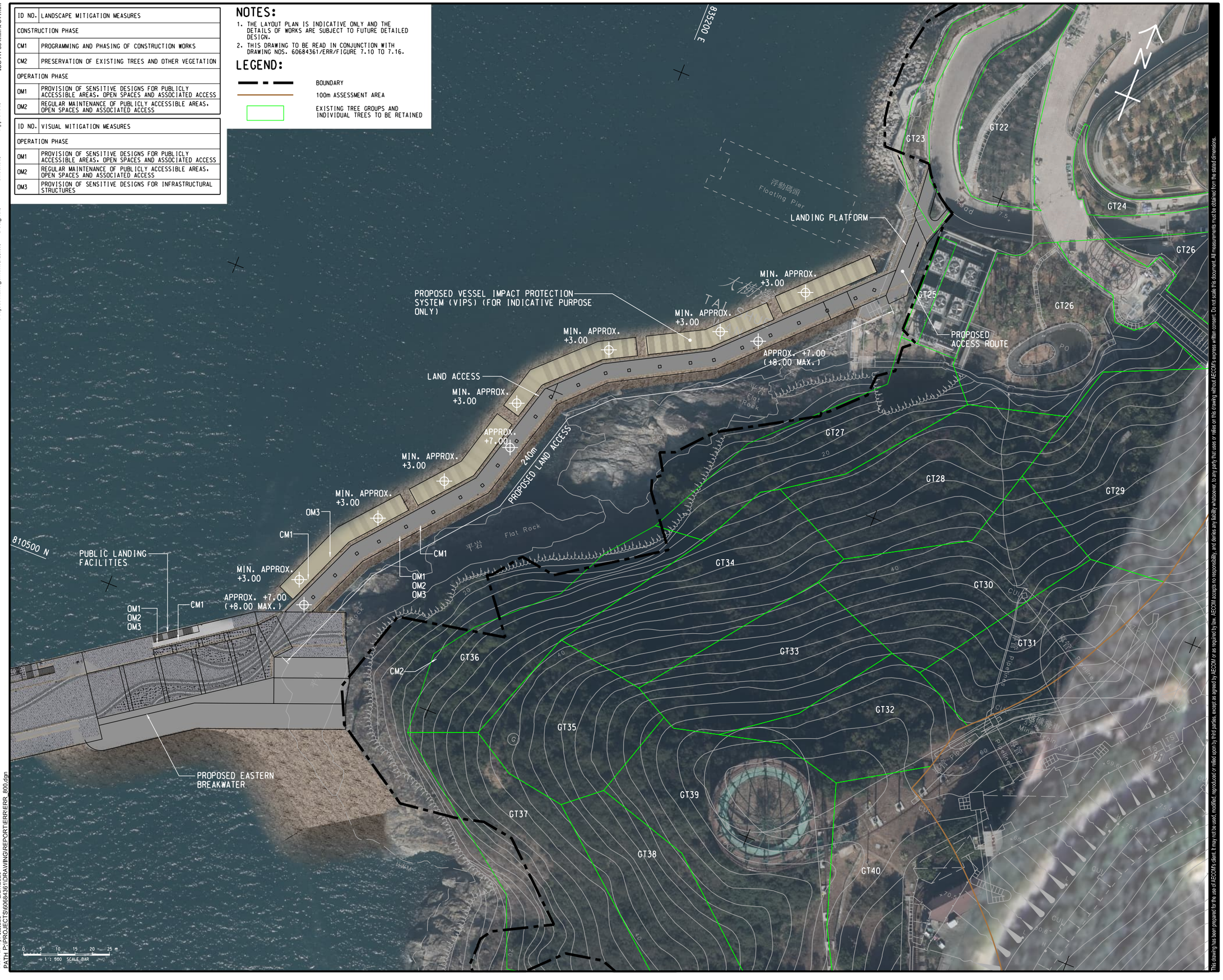
LEGEND:

- BOUNDARY
- 100m ASSESSMENT AREA
- EXISTING TREE GROUPS AND INDIVIDUAL TREES TO BE RETAINED



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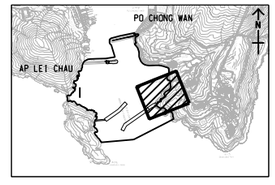
SCALE 比例: A3 1 : 1000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 50000



PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

PROPOSED LAND ACCESS LANDSCAPE PLAN

SHEET NUMBER
圖紙編號

60684361/ERR/FIGURE 7.12

ISO A1 594mm x 841mm
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Project Management Initials:



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ID NO.	LANDSCAPE MITIGATION MEASURES
CONSTRUCTION PHASE	
CM1	PROGRAMMING AND PHASING OF CONSTRUCTION WORKS
CM2	PRESERVATION OF EXISTING TREES AND OTHER VEGETATION
OPERATION PHASE	
OM1	PROVISION OF SENSITIVE DESIGNS FOR PUBLICLY ACCESSIBLE AREAS, OPEN SPACES AND ASSOCIATED ACCESS
OM2	REGULAR MAINTENANCE OF PUBLICLY ACCESSIBLE AREAS, OPEN SPACES AND ASSOCIATED ACCESS

ID NO.	VISUAL MITIGATION MEASURES
OPERATION PHASE	
OM1	PROVISION OF SENSITIVE DESIGNS FOR PUBLICLY ACCESSIBLE AREAS, OPEN SPACES AND ASSOCIATED ACCESS
OM2	REGULAR MAINTENANCE OF PUBLICLY ACCESSIBLE AREAS, OPEN SPACES AND ASSOCIATED ACCESS
OM3	PROVISION OF SENSITIVE DESIGNS FOR INFRASTRUCTURAL STRUCTURES

LEGEND:

- BOUNDARY
- 100m ASSESSMENT AREA
- EXISTING TREE GROUPS AND INDIVIDUAL TREES TO BE RETAINED

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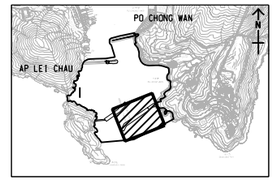
STATUS
階段

SCALE 比例
A3 1 : 1000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A3 1 : 50000



PROJECT NO. 項目編號
60684361

CONTRACT NO. 合約編號
CE 80/2021 (CE)

SHEET TITLE 圖紙名稱
PROPOSED EASTERN BREAKWATER LANDSCAPE PLAN

SHEET NUMBER 圖紙編號
60684361/ERR/FIGURE 7.13

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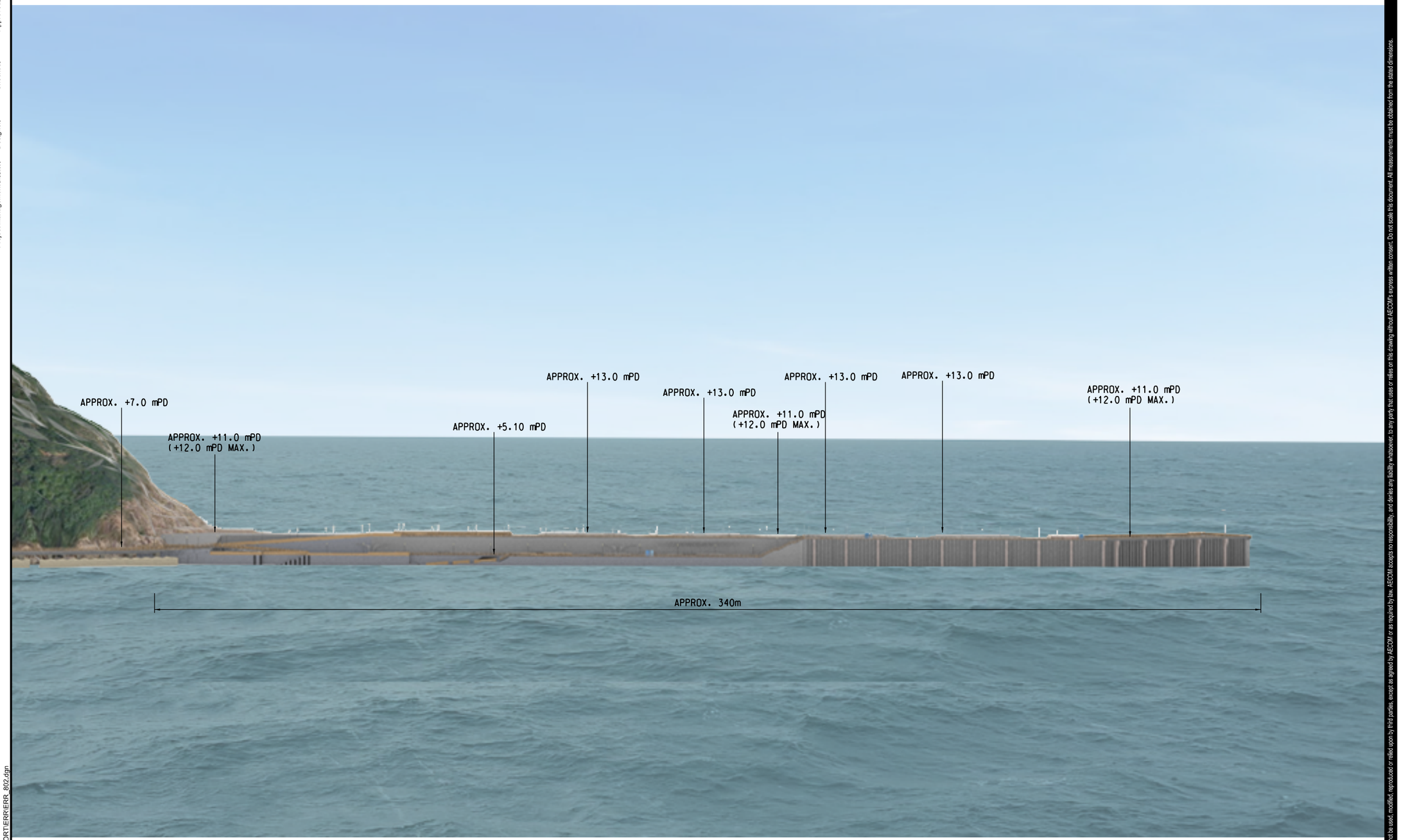

ELEVATION OF PROPOSED EASTERN BREAKWATER

ISO A1 594mm x 841mm

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Designer:

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STATUS
狀況

SCALE
比例

A3 1 : 1000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

PROJECT NO.
項目編號

60684361

CONTRACT NO.
合約編號

CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

PROPOSED EASTERN BREAKWATER ELEVATION

SHEET NUMBER
圖紙編號

60684361/ERR/FIGURE 7.14

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ISO A1 594mm x 841mm

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Designer:

Project Management Initials:



LEGEND:

BOUNDARY

100m ASSESSMENT AREA

EXISTING TREE GROUPS AND INDIVIDUAL TREES TO BE RETAINED

NOTES:

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ID NO.	LANDSCAPE MITIGATION MEASURES
CONSTRUCTION PHASE	
CM1	PROGRAMMING AND PHASING OF CONSTRUCTION WORKS
CM2	PRESERVATION OF EXISTING TREES AND OTHER VEGETATION

ID NO.	VISUAL MITIGATION MEASURES
OPERATION PHASE	
OM3	PROVISION OF SENSITIVE DESIGNS FOR INFRASTRUCTURAL STRUCTURES

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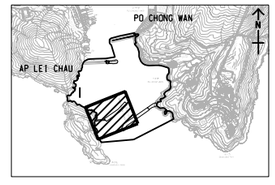
STATUS
階段

SCALE 比例
A3 1 : 1000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A3 1 : 50000



PROJECT NO. 項目編號
60684361

CONTRACT NO. 合約編號
CE 80/2021 (CE)

SHEET TITLE
圖紙名稱
PROPOSED WESTERN BREAKWATER LANDSCAPE PLAN

SHEET NUMBER
圖紙編號
60684361/ERR/FIGURE 7.15

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PATH: P:\PROJECTS\60684361\DRAWING\REPORT\ERR\ERR_803.dgn

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

834400 E

834500 E

GT65

GT64

GT63

CM2

810700 N

GT61

810600 N

HWM

CM1

OM3

80m

PROPOSED WAVE WALL
IN THE FORM OF
FLOATING BREAKWATER

CM2

CM2

GT60

GT59

GT58

GT55

GT57

GT56

810500 N

0 5 10 15 20 25 m
1 : 500 SCALE BAR

N

LEGEND:

BOUNDARY

100m ASSESSMENT AREA

EXISTING TREE GROUPS AND INDIVIDUAL TREES TO BE RETAINED

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ID NO.	LANDSCAPE MITIGATION MEASURES
CONSTRUCTION PHASE	
CM1	PROGRAMMING AND PHASING OF CONSTRUCTION WORKS
CM2	PRESERVATION OF EXISTING TREES AND OTHER VEGETATION

ID NO.	VISUAL MITIGATION MEASURES
OPERATION PHASE	
OM3	PROVISION OF SENSITIVE DESIGNS FOR INFRASTRUCTURAL STRUCTURES

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STATUS
阶段

SCALE
比例

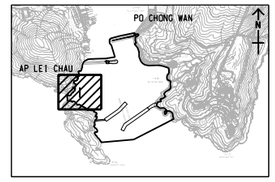
A3 1 : 1000

DIMENSION UNIT
尺寸单位

METRES

KEY PLAN
索引图

A3 1 : 50000



PROJECT NO.
项目编号

60684361

CONTRACT NO.
合约编号

CE 80/2021 (CE)

SHEET TITLE
图纸名称

PROPOSED WAVE WALL IN THE FORM OF FLOATING BREAKWATER LANDSCAPE PLAN

SHEET NUMBER
图纸编号

60684361/ERR/FIGURE 7.16

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Project Management Initials:

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ID NO.	LANDSCAPE MITIGATION MEASURES
CONSTRUCTION PHASE	
CM1	PROGRAMMING AND PHASING OF CONSTRUCTION WORKS
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ID NO.	VISUAL MITIGATION MEASURES
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OM2	REGULAR MAINTENANCE OF PUBLICLY ACCESSIBLE AREAS, OPEN SPACES AND ASSOCIATED ACCESS
OM3	PROVISION OF SENSITIVE DESIGNS FOR INFRASTRUCTURAL STRUCTURES

LEGEND:

- BOUNDARY
- 100m ASSESSMENT AREA
- EXISTING TREE GROUPS AND INDIVIDUAL TREES TO BE RETAINED

834800 E
835000 E
811000 N
810900 N
ABERDEEN CHANNEL
N
PROPOSED PEDESTRIAN ACCESS
MODIFICATION OF EXISTING EASTERN BREAKWATER
APPROX. 8.9 (+9.0 MAX.)
OM1
OM2
OM3
MODIFICATION OF CREST
EXISTING EASTERN BREAKWATER
CM2
CM3
GT1
GT2(a)
GT2(b)
GT3
GT4
GT5
GT6
GT7
GT12
GT13
EXISTING PEDESTRIAN ROAD
HWM
0 5 10 15 20 25 m
1 : 500 SCALE BAR

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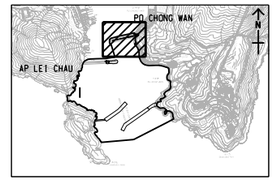
SCALE 比例: A3 1 : 1000
DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 50000



PROJECT NO. 項目編號: 60684361
CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

EXISTING EASTERN BREAKWATER LANDSCAPE PLAN

SHEET NUMBER
圖紙編號

60684361/ERR/FIGURE 7.17

ISO A1 594mm x 841mm

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Designer:

Project Management Initials:



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3. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60684361/ERR/FIGURE 7.10 TO 7.16.

ID NO.	LANDSCAPE MITIGATION MEASURES
CONSTRUCTION PHASE	
CM1	PROGRAMMING AND PHASING OF CONSTRUCTION WORKS
CM2	PRESERVATION OF EXISTING TREES AND OTHER VEGETATION

ID NO.	VISUAL MITIGATION MEASURES
OPERATION PHASE	
OM3	PROVISION OF SENSITIVE DESIGNS FOR INFRASTRUCTURAL STRUCTURES

LEGEND:

- BOUNDARY
- 100m ASSESSMENT AREA
- EXISTING TREE GROUPS AND INDIVIDUAL TREES TO BE RETAINED

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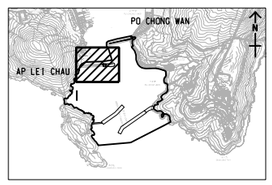
SCALE 比例 — A3 1 : 1000

DIMENSION UNIT 尺寸單位 — METRES

KEY PLAN 索引圖 A3 1 : 50000



PROJECT NO. 項目編號 — 60684361

CONTRACT NO. 合約編號 — CE 80/2021 (CE)

SHEET TITLE 圖紙名稱

EXISTING WESTERN BREAKWATER LANDSCAPE PLAN

SHEET NUMBER 圖紙編號

60684361/ERR/FIGURE 7.18

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Appendices

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Appendix 4.1

Details of Sediment Quantity Estimation

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Sampling Locations / Sampling Grid	Ground / Seabed Level (mPD)	Proposed Dredging Details			Total Dredging Area (m^2)	Sediment Sample Depth (m bgl)		Sediment Sample Depth (m PD)		Category / Disposal Type[2]	Descriptions[3]	Represented Depth (m bgl)		Represented Depth (m PD)		Thickness of Sediment (m)	Thickness of Sediment to be dredged (m)	Area to be Dredged (m^2)	Volume of Sediment (by Depth) (m^3)	Volume of Sediment (by Grid & Disposal Type) (m^3)		
		Works Type[1]	Area (m^2)	Sediment Dredging Thickness (m)		From	To	From	To			From	To	From	To					Type 1 - Open Sea Disposal	Type 2 – Confined Marine Disposal	Type 3 – Special Treatment/ Disposal
MDH5[4]	-15.61	Surface dredging under seabed level before DCM	13200	3.00	13200	SURFACE				Cat M/Type 2	DMD	0.00	1.00	-15.61	-16.61	1.00	1.00	13200	13200	13200	26400	0
					13200	1.50	1.95	-17.11	-17.56	Cat M/Type 2	DMD	1.00	2.00	-16.61	-17.61	1.00	1.00	13200	13200			
					13200	2.00	2.95	-17.61	-18.56	Cat L/Type 1	MD	2.00	3.00	-17.61	-18.61	1.00	1.00	13200	13200			
					0	3.00	5.95	-18.61	-21.56	Cat L/Type 1	MD	3.00	6.00	-18.61	-21.61	3.00	0.00	0	0			
MDH8 / MDH20	-13.12	Surface dredging under seabed level before DCM	4500	3.00	4500	SURFACE				Cat L/Type 1	MD	0.00	1.00	-13.12	-14.12	1.00	1.00	4500	4500	13500	0	0
					4500	1.00	2.00	-14.12	-15.12	Cat L/Type 1	MD	1.00	2.00	-14.12	-15.12	1.00	1.00	4500	4500			
					4500	2.00	3.00	-15.12	-16.12	Cat L/Type 1	MD	2.00	3.00	-15.12	-16.12	1.00	1.00	4500	4500			
					0	3.00	3.40	-16.12	-16.52	Cat L/Type 1	MD	3.00	3.40	-16.12	-16.52	0.40	0.00	0	0			
					0	3.40	3.90	-16.52	-17.02	NA	ALLUVIUM											
		Fully dredged	4200	3.40	4200	SURFACE				Cat L/Type 1	MD	0.00	1.00	-13.12	-14.12	1.00	1.00	4200	4200	14280	0	0
					4200	1.00	2.00	-14.12	-15.12	Cat L/Type 1	MD	1.00	2.00	-14.12	-15.12	1.00	1.00	4200	4200			
					4200	2.00	3.00	-15.12	-16.12	Cat L/Type 1	MD	2.00	3.00	-15.12	-16.12	1.00	1.00	4200	4200			
					4200	3.00	3.40	-16.12	-16.52	Cat L/Type 1	MD	3.00	3.40	-16.12	-16.52	0.40	0.40	4200	1680			
					0	3.40	3.90	-16.52	-17.02	NA	ALLUVIUM											
MDH9[5]	-15.94	Surface dredging under seabed level before DCM	2200	3.00	2200	SURFACE				Cat L/Type 1	DMD	0.00	1.00	-15.94	-16.94	1.00	1.00	2200	2200	6600	0	0
						0.00	1.00	-15.94	-16.94	Cat L/Type 1	DMD											
					2200	1.50	1.95	-17.44	-17.89	Cat L/Type 1	DMD	1.00	3.00	-16.94	-18.94	2.00	2.00	2200	4400			
					0	3.00	6.00	-18.94	-21.94	Cat L/Type 1	MD	3.00	6.00	-18.94	-21.94	3.00	3.00	0	0			
					0	6.00	6.30	-21.94	-22.24	Cat L/Type 1	MD	6.00	6.30	-21.94	-22.24	0.30	0.30	0	0			
					0	6.30	7.60	-22.24	-23.54	NA	ALLUVIUM											
		Fully dredged	2300	6.30	2300	SURFACE				Cat L/Type 1	DMD	0.00	1.00	-15.94	-16.94	1.00	1.00	2300	2300	14490	0	0
						0.00	1.00	-15.94	-16.94	Cat L/Type 1	DMD											
					2300	1.50	1.95	-17.44	-17.89	Cat L/Type 1	DMD	1.00	3.00	-16.94	-18.94	2.00	2.00	2300	4600			
					2300	3.00	6.00	-18.94	-21.94	Cat L/Type 1	MD	3.00	6.00	-18.94	-21.94	3.00	3.00	2300	6900			
					2300	6.00	6.30	-21.94	-22.24	Cat L/Type 1	MD	6.00	6.30	-21.94	-22.24	0.30	0.30	2300	690			
					0	6.30	7.60	-22.24	-23.54	NA	ALLUVIUM											
MDH12	-16.27	Surface dredging under seabed level before DCM	17600	3.00	17600	SURFACE				Cat L/Type 1	MD	0.00	1.00	-16.27	-17.27	1.00	1.00	17600	17600	52800	0	0
						0.00	1.00	-16.27	-17.27	Cat L/Type 1	MD											
					17600	1.00	2.00	-17.27	-18.27	Cat L/Type 1	MD	1.00	2.00	-17.27	-18.27	1.00	1.00	17600	17600			
					17600	2.00	3.00	-18.27	-19.27	Cat L/Type 1	MD	2.00	3.00	-18.27	-19.27	1.00	1.00	17600	17600			
					0	3.00	6.00	-19.27	-22.27	Cat L/Type 1	MD	3.00	6.00	-19.27	-22.27	3.00	0.00	0	0			
MDH14[6]	-14.61	Surface dredging under seabed level before DCM	4600	3.00	4600	SURFACE				Cat L/Type 1	MD	0.00	3.00	-14.61	-17.61	3.00	3.00	4600	13800	13800	0	0
					0	3.00	6.00	-17.61	-20.61	Cat L/Type 1	MD	3.00	6.00	-17.61	-20.61	3.00	0.00	0	0			
					0	6.00	8.00	-20.61	-22.61	Cat L/Type 1	MD	6.00	8.00	-20.61	-22.61	2.00	0.00	0	0			
					0	8.00	8.65	-22.61	-23.26	NA	ALLUVIUM											
		Fully dredged	7900	8.00	7900	SURFACE				Cat L/Type 1	MD	0.00	3.00	-14.61	-17.61	3.00	3.00	7900	23700	63200	0	0
					7900	3.00	6.00	-17.61	-20.61	Cat L/Type 1	MD	3.00	6.00	-17.61	-20.61	3.00	3.00	7900	23700			
					7900	6.00	8.00	-20.61	-22.61	Cat L/Type 1	MD	6.00	8.00	-20.61	-22.61	2.00	2.00	7900	15800			
					0	8.00	8.65	-22.61	-23.26	NA	ALLUVIUM											
MDH15[7]	-14.42	Surface dredging under seabed level before DCM	5000	3.00	5000	SURFACE				Cat L/Type 1	DMD	0.00	3.00	-14.42	-17.42	3.00	3.00	5000	15000	15000	0	0
					0	3.00	6.00	-17.42	-20.42	Cat L/Type 1	MD	3.00	6.00	-17.42	-20.42	3.00	0.00	0	0			
					0	6.00	6.20	-20.42	-20.62	NA	ALLUVIUM											
		Fully dredged	1300	6.00	1300	SURFACE				Cat L/Type 1	DMD	0.00	3.00	-14.42	-17.42	3.00	3.00	1300	3900	7800	0	0
					1300	3.00	6.00	-17.42	-20.42	Cat L/Type 1	MD	3.00	6.00	-17.42	-20.42	3.00	3.00	1300	3900			
					0	6.00	6.20	-20.42	-20.62	NA	ALLUVIUM											
MDH17	-5.96				0	-	-	-	-	NA	No Sediment Dredging Expected						-	-	-	0	0	0
MDH19	-5.57				0	-	-	-	-	NA	No Sediment Dredging Expected						-	-	-	0	0	0
																			TOTAL (BY DISPOSAL TYPE)	214670	26400	0

GRAND TOTAL	**241070**

Notes:

1. Refer to **Drawing 60684361/ERR/Figure 2.1** for works types
2. Cat L: Category L sediment
   Cat M: Category M sediment
   Type 1: Type 1 - Open Sea Disposal
   Type 2: Confined Marine Disposal
   NA - Not applicable.
3. MD: MARINE DEPOSIT
   DMD: DISTURBED MARINE DEPOSIT
   Descriptions based on borehole logs.
4. No samples were able to be collected from MDH5 1.00 m bgl to 1.50 m bgl. The result of the DMD sample collected from 1.50 m bgl to 1.95 m bgl as Category M / Type 2 sediment is proposed to represent the category and disposal type of sediment layer from 1.00 m bgl to 1.50 m bgl.
5. No samples were able to be collected from MDH9 1.00 m bgl to 1.50 m bgl and 2.00 m bgl to 3.00 m bgl. The result of the DMD sample from 1.50 m bgl to 1.95 m bgl as Category L / Type 1 sediment is proposed to represent the category and disposal type of sediment from 1.00 m bgl to 1.50 m bgl and 2.00 m bgl to 3.00 m bgl
6. Due to insufficient sample size, the samples from MDH14 0.00 m bgl to 3.00 m bgl were not tested. The result of the the surface grab sample as Category L / Type 1 sediment is proposed to represent the category and disposal type of sediment layer from 0.00 m bgl to 3.00 m bgl.
7. No samples were able to be collected from MDH15 0.00 m bgl to 3.00 m bgl. The result of the surface grab sample as Category L / Type 1 sediment is proposed to represent the category and disposal type of sediment layer from 0.00 m bgl to 3.00 m bgl.

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Appendix 7.1

Broadbrush Tree Survey and Individual Tree Survey (Tai Shue Wan)

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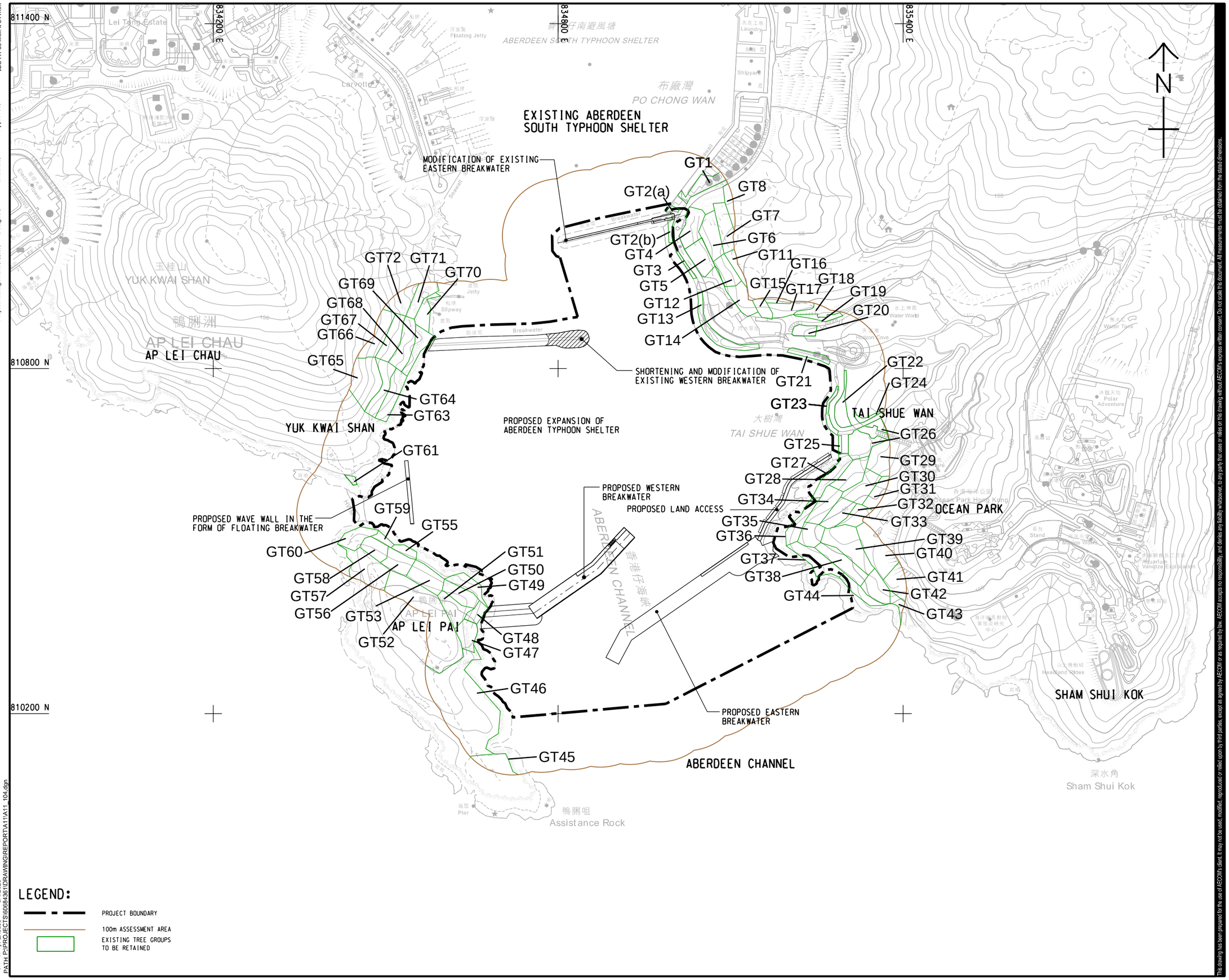

LEGEND:

- PROJECT BOUNDARY
- 100m ASSESSMENT AREA
- EXISTING TREE GROUPS TO BE RETAINED

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STATUS
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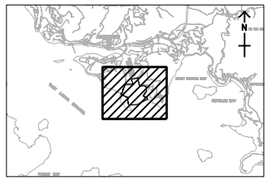
DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖: A3 1 : 200000



PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - BROADBRUSH TREE SURVEY PLAN

SHEET NUMBER
圖紙編號

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Plot File by: Zhou.l8 3/4/2025
PATH P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_104.dgn

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

836000 E

835000 E

834000 E

812000 N

811000 N

810000 N

石排灣
SHEK PAI WAN

深灣
SHAM WAN

布廠灣
PO CHONG WAN

大樹灣
TAI SHUE WAN

AP LEI CHAU

AP LEI PAI

BRICK HILL
(NAM LONG SHAN)

深水角
Sham Shui Kok

SHEET 1 OF 5

SHEET 2 OF 5

SHEET 3 OF 5

SHEET 4 OF 5

SHEET 5 OF 5

PROPOSED MODIFICATION
OF EXISTING BREAKWATERS

POTENTIAL WAVE WALL

POTENTIAL
BREAKWATERS

N

V:\BAK\US95-BAK\CSWP\plotdrv\Create Plt file\new\CSWP-75(color).plt
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29/1/2026
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STATUS
階段

SCALE 比例
A1 1 : 5000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60684361

CONTRACT NO. 合約編號
CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - BROADBRUSH TREE SURVEY PLAN

SHEET NUMBER
圖紙編號

60684361/G03/100

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

834300 E

834500 E

834700 E

811400 N

811200 N

811000 N

Sports Ground

Tung On House

Tung Yat House

Badminton Court

Podium

Playground

Footpath

Footbridge

Footbridge

Footbridge

ISO A1 594mm x 841mm

Project Management Initials: Designer: Checked: Approved:

834300 E

834500 E

834700 E

CUT LINE A-A

SEE DRAWING NO. 60684361/G03/101

A01

N

NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60684361/G03/101.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60684361/G03/101, 103 TO 105.

PROPOSED MODIFICATION OF EXISTING BREAKWATERS

CUT LINE D-D

SEE DRAWING NOS. 60684361/G03/104 AND 105

810800 N

A02

POTENTIAL WAVE WALL

A02

CUT LINE C-C

SEE DRAWING NO. 60684361/G03/103

A02

810600 N

810400 N

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STATUS
階段

SCALE 比例
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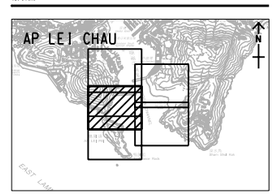
DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 40000



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SHEET TITLE
圖紙名稱

APPENDIX 7.1 - BROADBRUSH TREE SURVEY PLAN

SHEET 2 OF 5

SHEET NUMBER
圖紙編號

60684361/G03/102

ISO A1 594mm x 841mm

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Designer:

Project Management Initials:

NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60684361/G03/101.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60684361/G03/102 AND 105.

834500 E

834700 E

834900 E

N

POTENTIAL WAVE WALL

A2

A3

A3

A3

A3

CUT LINE C-C

SEE DRAWING NO. 60684361/G03/102

CUT LINE E-E

SEE DRAWING NO. 60684361/G03/105

810400 N

810200 N

810000 N

鴨脷洲
AP LEI PAI

鴨脷洲
ASSISTANCE ROCK

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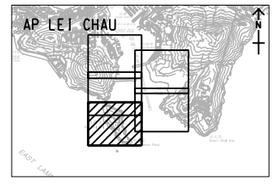
階段

SCALE 比例
A1 1 : 1000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 40000



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60684361

CONTRACT NO. 合約編號
CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - BROADBRUSH TREE SURVEY PLAN

SHEET 3 OF 5

SHEET NUMBER
圖紙編號

60684361/G03/103

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

835100 E

835300 E

811200 N

811000 N

810800 N

T0022(R)
T0021(R)
T0020(R)
T0019(R)
T0017(R)
T0013(R)
T0012(R)
T0010(R)
T0009(R)
T0005(R)
T0003(R)
T0002(R)
T0026(R)
T0025(R)
T0024(R)
T0023(R)
T0018(R)
T0016(R)
T0015(R)
T0014(R)
T0011(R)
T0008(R)
T0007(R)
T0006(R)
T0004(R)
T0001(R)

NOTES:

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2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60684361/G03/101, 102 AND 105.

LEGEND:

TXXXX(R) — TREES TO BE RETAINED

TXXXX(F) — TREES TO BE REMOVED

N

CUT LINE B-B

SEE DRAWING NOS. 60684361/G03/101 AND 102

CUT LINE F-F

SEE DRAWING NO. 60684361/G03/105

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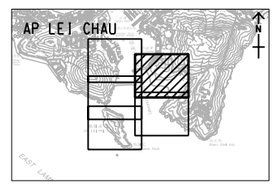
階段

SCALE 比例: A1 1 : 1000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A1 1 : 40000



PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - BROADBRUSH TREE SURVEY PLAN

SHEET 4 OF 5

SHEET NUMBER
圖紙編號

60684361/G03/104

ISO A1 594mm x 841mm

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Checked:

Designer:

Project Management Initials:

NOTES:

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2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60684361/G03/103 AND 104.

835100 E

835300 E

835500 E

CUT LINE F-F

SEE DRAWING NO. 60684361/G03/104

CUT LINE E-E

SEE DRAWING NO. 60684361/G03/103

810600 N

810400 N

810200 N

N

大樹灣
TAI SHUE WAN

香港仔海峽
ABERDEEN CHANNEL

POTENTIAL BREAKWATERS

POTENTIAL BREAKWATERS

A04

A04

A04

Floating Pier

Adventure Land

Space Wheel

Ocean

Rock

Fish Culture Zone

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SCALE 比例
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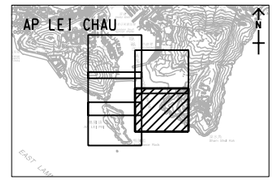
DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 40000



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CONTRACT NO. 合約編號
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SHEET TITLE
圖紙名稱

APPENDIX 7.1 - BROADBRUSH TREE SURVEY PLAN

SHEET 5 OF 5

SHEET NUMBER
圖紙編號

60684361/G03/105

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. ALL COORDINATES ARE IN HONG KONG (1980) GRID SYSTEM UNLESS OTHERWISE STATED.
3. ALL LEVELS ARE IN METERS ABOVE HONG KONG PRINCIPAL DATUM.

LEGEND:

SITE BOUNDARY

EXISTING TREE

PRIVATE LAND LOT (FOR INDICATIVE ONLY)

834600 E

835000 E

835400 E

N

SHEET 1 OF 2

SHEET 2 OF 2

AP LEI CHAU

ABERDEEN CHANNEL

810600 N

810200 N

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AECOM

PROJECT
項目

EXPANSION OF ABERDEEN TYPHOON SHELTER - INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
工程顧問公司

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ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核

STATUS
圖紙

SCALE 比例: A1 1 : 2000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN
索引圖

PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 INDIVIDUAL TREE SURVEY PLAN

SHEET NUMBER
圖紙編號

60684361/TSP/100

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

NOTE:

1. FOR NOTES AND LEGENDS REFER TO DRAWING NO. 60684361/TSP/100.

LEGEND:

- SITE BOUNDARY
- T-0000 EXISTING TREE
- PRIVATE LAND LOT (FOR INDICATIVE ONLY)

N

835000 E

835050 E

811100 N

811050 N

ADVENTURE-SHIP

乘風航

Adventure-Ship

T-0001

T-0002

T-0003

T-0004

T-0005

T-0006

T-0007

SHR

TS

ESS

FP

H

L

+4.5

+4.8

+7.5

6.3+

19.6+

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PROJECT
項目

EXPANSION OF ABERDEEN TYPHOON SHELTER - INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT
業主

CEDD 土木工程拓展署 Civil Engineering and Development Department

CONSULTANT
工程顧問公司

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ISSUE/REVISION
修訂

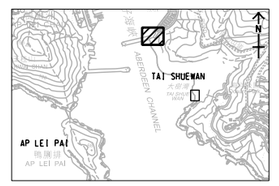
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核

STATUS
狀況

SCALE 比例 — A1 1 : 200

DIMENSION UNIT 尺寸單位 — METRES

KEY PLAN 索引圖 A1 1 : 20000



PROJECT NO. 項目編號 — 60684361

CONTRACT NO. 合約編號 — CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 INDIVIDUAL TREE SURVEY PLAN

SHEET 1 OF 2

SHEET NUMBER
圖紙編號

60684361/TSP/101

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

NOTE:

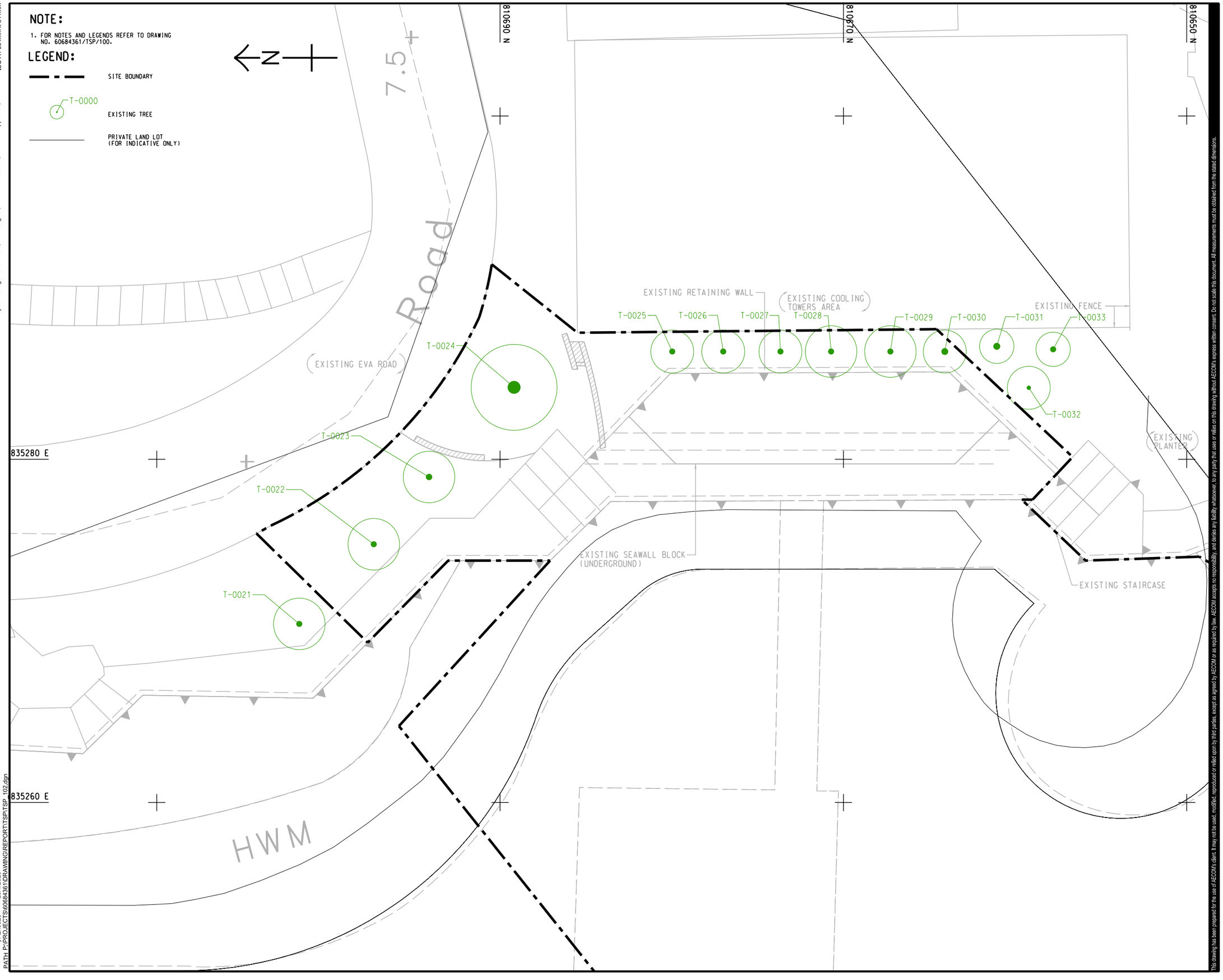
1. FOR NOTES AND LEGENDS REFER TO DRAWING NO. 60684361/TSP/100.

LEGEND:

SITE BOUNDARY

T-0000 EXISTING TREE

PRIVATE LAND LOT (FOR INDICATIVE ONLY)



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AECOM

PROJECT
項目

EXPANSION OF ABERDEEN TYPHOON SHELTER - INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
CEDD Civil Engineering and Development Department

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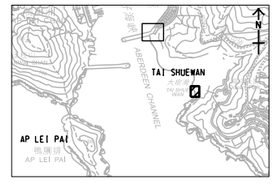
ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核

STATUS
階段

SCALE 比例	DIMENSION UNIT 尺寸單位
A1 1 : 100	METRES

KEY PLAN 索引圖 A1 1 : 20000



PROJECT NO. 項目編號	CONTRACT NO. 合約編號
60684361	CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 INDIVIDUAL TREE SURVEY PLAN

SHEET 2 OF 2

SHEET NUMBER
圖紙編號

60684361/TSP/102

Project Title: Expansion of Aberdeen Typhoon Shelter - Investigation, Design and Construction

Date of Tree Survey: 28/2/2025
Surveyed by: Joan Lo

Tree Group No.	Species		Tree Measurements			App. Quantity of the group	Amenity Value	Form	Health Condition	Structural Condition	Suitability for Transplanting		Conservation Status	Additional Remarks
	Scientific name	Chinese Name	Height (m)	DBH (mm)	Crown Spread (m)		(High/ Medium/ Low)	(good (G)/average(A)/poor(P)			(High/ Medium/ Low)	Remarks		
GT 1	*Carica papaya*	番木瓜	6-7	95-110	1	7	L	A	A	A	L	a,c,h,i	Nil	-
	Ficus virens	黃葛樹	3-4	130-170	4-7	1	L	A	A	A	L	a,c,h,i	Nil	-
	Leucaena leucocephala	銀合歡	4-7	95-160	2-4	8	L	P	A	P	L	a, g	Nil	-
	Macaranga tanarius var. tomentosa	血桐	5-7	120-150	3-4	4	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**20**								
GT 2(a)	*Celtis sinensis*	朴樹	7-10	300-310	5-8.5	2	M	A	A	P	L	c,h,i	Nil	-
	Ficus benjamina	垂葉榕	3.5	150	2.5	1	L	P	A	P	L	a,c,h,i	Nil	-
	Ficus microcarpa	細葉榕	4.5	250	5	1	L	A	A	P	L	a,c,h,i	Nil	-
	Leucaena leucocephala	銀合歡	4-6	100-150	3-4	2	L	P	P	P	L	a, g	Nil	-
GT2(b)	*Leucaena leucocephala*	銀合歡	4-6	100-150	3-4	2	L	P	P	P	L	a, g	Nil	-
				App. Total		**8**								
GT 3	*Cinnamomum burmannii*	陰香	6	150	3-4	1	L	A	A	P	L	a,c,h,i	Nil	-
	Phoenix sylvestris	銀海棗	6-8	250-300	3-4	12	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**13**								
GT 4	*Celtis sinensis*	朴樹	5	100	4	1	L	A	A	A	L	a,c,h,i	Nil	-
	Ficus hispida	對葉榕	2-6	95-120	1-4	2	L	A	A	A	L	a,c,h,i	Nil	-
	Ficus variegata var. chlorocarpa	青果榕	8	120	6	1	L	A	A	A	L	a,c,h,i	Nil	-
	Leucaena leucocephala	銀合歡	4-7	95-160	2-4	6	L	P	A	A	L	a, g	Nil	-
	Macaranga tanarius var. *tomentosa*	血桐	4-7	95-160	2-4	3	L	A	A	A	L	a,c,h,i	Nil	-
	Mallotus paniculatus	白楸	5	95	3	4	L	A	A	A	L	a,c,h,i	Nil	-
	Phoenix sylvestris	銀海棗	6-8	250-300	3-4	2	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**19**								
GT 5	*Cinnamomum burmannii*	陰香	6	180	3-4	1	L	A	A	A	L	a,c,h,i	Nil	-
	Eucalyptus spp	桉屬	10	150	2	2	L	A	A	A	L	a,c,h,i	Nil	-
	Livistona chinensis	蒲葵	4-7	160-180	3-4	8	L	A	A	A	L	a,c,h,i	Nil	-
	Phoenix sylvestris	銀海棗	6-8	250-300	3-4	10	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**21**								
GT 6	*Macaranga tanarius* var. *tomentosa*	血桐	3-8	95-160	2-5	6	L	A	A	A	L	a,c,h,i	Nil	-
	Pinus massoniana	馬尾松	4-7	95-100	3-4	3	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**9**								
GT 7	*Pinus massoniana*	馬尾松	4-6	95-100	3-4	2	L	A	A	A	L	a,c,h,i	Nil	-
	Schima superba	木荷	8	130	4	1	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**3**								
GT 8	*Celtis sinensis*	朴樹	5	100	4	1	L	P	A	A	L	a,c,h,i	Nil	-
	Ficus microcarpa	細葉榕	10	600	14	1	L	A	A	P	L	a,c,h,i	Nil	-
	Mallotus paniculatus	白楸	6	95	3	1	L	A	A	A	L	a,c,h,i	Nil	-
	Pinus massoniana	馬尾松	3-6	95-110	3-6	11	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**14**								
GT11	*Pinus massoniana*	馬尾松	3-5	95-100	3-4	5	L	A	A	A	L	a,c,h,i	Nil	-
	Polyspora axillaris	大頭茶	5-6	95-100	3-5	2	L	A	A	A	L	a,c,h,i	Nil	-

Tree Group No.	Species		Tree Measurements			App. Quantity of the group	Amenity Value	Form	Health Condition	Structural Condition	Suitability for Transplanting		Conservation Status	Additional Remarks
	Scientific name	Chinese Name	Height (m)	DBH (mm)	Crown Spread (m)		(High/ Medium/ Low)	(good (G)/average(A)/poor(P)			(High/ Medium/ Low)	Remarks		
				App. Total		**7**								
GT12	Broussonetia papyrifera	構木	5-6	95-100	3-5	5	L	A	A	A	L	a,c,h,i	Nil	-
	Macaranga tanarius var. *tomentosa*	血桐	3-6	95-100	4-5	3	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**8**								
GT13	*Phoenix sylvestris*	銀海棗	6-8	250-300	3-4	33	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**33**								
GT14	*Macaranga tanarius* var. *tomentosa*	血桐	3-10	95-160	2-5	2	L	A	A	A	L	a,c,h,i	Nil	-
	Pinus massoniana	馬尾松	5-10	95-100	3-6	6	L	A	A	A	L	a,c,h,i	Nil	-
	Schefflera heptaphylla	鵝掌柴	3-9	95-100	1-3	3	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**11**								
GT15	*Elaeocarpus spp.*	杜英屬	4-6	95	3-4	2	L	A	A	A	L	a,c,h,i	Nil	-
	Mallotus paniculatus	白楸	3-5	95-100	2-4	4	L	A	A	A	L	a,c,h,i	Nil	-
	Pinus massoniana	馬尾松	5-10	95-100	3-6	12	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**18**								
GT16	*Pinus massoniana*	馬尾松	5-10	95-150	4-6	30	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**30**								
GT17	*Ficus microcarpa*	細葉榕	5-8	130-200	3-6	3	L	A	A	A	L	a,c,h,i	Nil	-
	Mallotus paniculatus	白楸	5	95	3	4	L	A	A	A	L	a,c,h,i	Nil	-
	Pinus massoniana	馬尾松	3-10	95-160	2-6	30	L	A	A	A	L	a,c,h,i	Nil	-
	Schima superba	木荷	8	130	4	6	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**43**								
GT18	*Cratoxylum cochinchinense*	黃牛木	3-5	100-120	2-3	3	L	A	A	A	L	a,c,h,i	Nil	-
	Macaranga tanarius var. *tomentosa*	血桐	4	95	3	1	L	A	A	A	L	a,c,h,i	Nil	-
	Pinus massoniana	馬尾松	3-10	95-160	2-6	10	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**14**								
GT19	*Macaranga tanarius* var. *tomentosa*	血桐	3-10	95-150	2-5	2	L	A	A	A	L	a,c,h,i	Nil	-
	Pinus massoniana	馬尾松	4-6	100-120	2-4	2	L	A	A	A	L	a,c,h,i	Nil	-
	Machilus spp.	潤楠屬	3-7	95-100	2-6	4	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**8**								
GT20	*Araucaria heterophylla*	異葉南洋杉	5-6	95-100	2-3	4	L	A	A	A	L	a,c,h,i	Nil	-
	Ficus microcarpa	細葉榕	10	250	13	1	M	A	A	A	L	c,h,i	Nil	-
	Roystonea regia	王棕	4-6	150-180	3-4	9	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**14**								
GT21	*Ficus microcarpa*	細葉榕	5-6	160-250	4-10	2	M	A	A	A	L	c,h,i	Nil	-
	Ficus virens	黃葛樹	8-10	95-300	4-8	6	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**8**								
GT22	*Crateva unilocularis*	樹頭菜	4-6	100-110	3-4	7	L	A	A	A	L	a, c,h,i	Nil	-
	Elaeocarpus spp	杜英	4-6	95-180	2-3	5	L	A	A	A	L	a, c,h,i	Nil	-
	Ilex rotunda var. microcarpa	小果鐵冬青	4-5	95-100	3-4	3	L	A	A	A	L	a, c,h,i	Nil	-
	Macaranga tanarius var. *tomentosa*	血桐	5	95	5	1	L	A	A	A	L	a, c,h,i	Nil	-
	Sterculia lanceolata	假蘋婆	4-5	95-100	2-3	6	L	A	A	A	L	a, c,h,i	Nil	-
	Syzygium jambos	蒲桃	5-6	95-100	3-4	2	L	A	A	A	L	a, c,h,i	Nil	-

Tree Group No.	Species		Tree Measurements			App. Quantity of the group	Amenity Value	Form	Health Condition	Structural Condition	Suitability for Transplanting		Conservation Status	Additional Remarks
	Scientific name	Chinese Name	Height (m)	DBH (mm)	Crown Spread (m)		(High/ Medium/ Low)	(good (G)/average(A)/poor(P)			(High/ Medium/ Low)	Remarks		
	Tabebuia impetiginosa	紅風鈴木	4-5	95-100	2-3	5	L	A	A	A	L	a, c,h,i	Nil	-
	Terminalia catappa	欖仁樹	4-5	95-100	2-3	5	L	A	A	A	L	a, c,h,i	Nil	-
	Terminalia mantaly 'Tricolor'	錦葉欖仁樹	4-5	95-100	2-3	6	L	A	A	A	L	a, c,h,i	Nil	-
				App. Total		**40**								
GT23	*Casuarina equisetifolia*	木麻黃	9-10	150-180	4-6	2	L	A	A	A	L	a, c,h,i	Nil	-
	Ficus microcarpa	細葉榕	10	280	4	1	M	A	A	A	L	c,h,i	Nil	-
	Lagerstroemia speciosa	大葉紫薇	4	100	3	1	L	A	A	A	L	a,c,h,i	CAP 96	-
	Roystonia regia	王棕	3-8	150-200	2-4	17	L	A	A	A	L	a, c,h,i	Nil	-
	Terminalia mantaly	細葉欖仁樹	3-5	95-100	2-4	3	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**24**								
GT24	*Lagerstroemia speciosa*	大葉紫薇	4	100	3	1	L	A	A	A	L	a,c,h,i	CAP 96	-
	Livistona chinensis	蒲葵	2	150	2-3	1	L	A	A	A	L	a,c,h,i	Nil	-
	Terminalia mantaly	細葉欖仁樹	4-5	95-100	2-3	2	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**4**								
GT25	*Roystonia regia*	王棕	6-8	150-200	3-4	5	L	A	A	A	L	a, c,h,i	Nil	-
				App. Total		**5**								
GT26	*Acacia confusa*	台灣相思	3-6	95-200	5-6	6	L	A	A	A	L	a,c,h,i	Nil	-
	Livistona chinensis	蒲葵	3-7	150-200	2-3	6	L	A	A	A	L	a,c,h,i	Nil	-
	Macaranga tanarius var. *tomentosa*	血桐	5	95	5	1	L	A	A	A	L	a,c,h,i	Nil	-
	Roystonia regia	王棕	6-9	150-200	3-4	6	L	A	A	A	L	a, c,h,i	Nil	-
				App. Total		**19**								
GT27	*Cratoxylum cochinchinense*	黃牛木	3-6	95-100	2-3	3	L	A	A	A	L	a,c,h,i	Nil	-
	Ficus hispida	對葉榕	2-4	95-100	1-3	4	L	A	A	A	L	a,c,h,i	Nil	-
	Macaranga tanarius var. *tomentosa*	血桐	5	95	5	1	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**8**								
GT28	*Ficus microcarpa*	細葉榕	5-8	100-200	4-6	3	L	A	A	A	L	c,h,i	Nil	-
	Macaranga tanarius var. *tomentosa*	血桐	4-8	95-120	3-5	6	L	A	A	A	L	a,c,h,i	Nil	-
	Pinus massoniana	馬尾松	3-10	95-160	2-6	3	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**12**								
GT29	*Acacia confusa*	台灣相思	4-12	100-180	5-10	8	L	A	A	A	L	a,c,h,i	Nil	-
	Macaranga tanarius var. *tomentosa*	血桐	3-5	95-100	3-5	4	L	A	A	A	L	a,c,h,i	Nil	-
	Mallotus paniculatus	白楸	3-5	95-100	2-4	2	L	A	A	A	L	a,c,h,i	Nil	-
	Pinus massoniana	馬尾松	3-10	95-160	2-6	17	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**31**								
GT30	*Pinus massoniana*	馬尾松	3-9	95-150	2-6	25	L	A	A	A	L	a,c,h,i	Nil	-
	Polyspora axillaris	大頭茶	2-6	95-100	1-2	9	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**34**								
GT31	*Eucalyptus spp.*	桉屬	10	150	2	2	L	A	A	A	L	a,c,h,i	Nil	-
	Ficus microcarpa	細葉榕	4-9	100-150	5-8	2	L	A	A	P	L	a,c,h,i	Nil	-
	Leucaena leucocephala	銀合歡	3-8	100-150	3-6	5	L	P	P	P	L	a, g	Nil	-
	Macaranga tanarius var. *tomentosa*	血桐	3-6	95-100	3-5	3	L	A	A	A	L	a,c,h,i	Nil	-
	Pinus massoniana	馬尾松	3-10	95-160	2-6	14	L	A	A	A	L	a,c,h,i	Nil	-

Tree Group No.	Species		Tree Measurements			App. Quantity of the group	Amenity Value	Form	Health Condition	Structural Condition	Suitability for Transplanting		Conservation Status	Additional Remarks
	Scientific name	Chinese Name	Height (m)	DBH (mm)	Crown Spread (m)		(High/ Medium/ Low)	(good (G)/average(A)/poor(P)			(High/ Medium/ Low)	Remarks		
				App. Total		**26**								
GT32	*Acacia confusa*	台灣相思	4-12	100-180	6-10	3	L	A	A	A	L	a,c,h,i	Nil	-
	Macaranga tanarius var. *tomentosa*	血桐	3-6	95-100	3-5	3	L	A	A	A	L	a,c,h,i	Nil	-
	Pinus massoniana	馬尾松	3-10	95-160	2-6	16	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**22**								
GT33	*Ficus microcarpa*	細葉榕	5-8	100-150	3-6	2	L	A	A	A	L	a,c,h,i	Nil	-
	Macaranga tanarius var. *tomentosa*	血桐	3-6	95-100	3-5	3	L	A	A	A	L	a,c,h,i	Nil	-
	Pinus massoniana	馬尾松	3-10	95-160	2-6	9	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**14**								
GT34	*Pinus massoniana*	馬尾松	3-10	95-160	2-6	17	L	A	A	A	L	a,c,h,i	Nil	-
	Polyspora axillaris	大頭茶	2-6	95-100	1-2	9	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**26**								
GT35	*Macaranga tanarius* var. *tomentosa*	血桐	3-6	95-100	3-5	4	L	A	A	A	L	a,c,h,i	Nil	-
	Pinus massoniana	馬尾松	3-10	95-140	2-6	13	L	A	A	A	L	a,c,h,i	Nil	-
	Polyspora axillaris	大頭茶	2-6	95-100	1-2	6	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**23**								
GT36	*Macaranga tanarius* var. *tomentosa*	血桐	3-4	95-110	3-4	2	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**2**								
GT37	*Ficus microcarpa*	細葉榕	5-8	95-130	3-6	3	L	A	A	A	L	a,c,h,i	Nil	-
	Ficus subpisocarpa	筆管榕	2-5	95-150	2-6	4	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**7**								
GT38	*Ficus hispida*	對葉榕	2-6	95-120	1-4	6	L	A	A	A	L	a,c,h,i	Nil	-
	Macaranga tanarius var. *tomentosa*	血桐	3-6	95-100	3-5	3	L	A	A	A	L	a,c,h,i	Nil	-
	Pinus massoniana	馬尾松	4-12	95-150	3-8	8	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**17**								
GT39	*Acacia confusa*	台灣相思	6-7	130-200	5-6	4	L	A	A	A	L	a,c,h,i	Nil	-
	Pinus massoniana	馬尾松	4-10	95-150	3-8	6	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**10**								
GT40	*Acacia confusa*	台灣相思	6-7	130-200	5-6	9	L	A	A	A	L	a,c,h,i	Nil	-
	Ficus subpisocarpa	筆管榕	2-5	95-150	2-6	4	L	A	A	A	L	a,c,h,i	Nil	-
	Litsea glutinosa	潺槁樹	4-10	95-130	3-8	2	L	A	A	A	L	a,c,h,i	Nil	-
	Pinus massoniana	馬尾松	4-10	95-150	3-8	12	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**27**								
GT41	*Ficus microcarpa*	細葉榕	8	200	8	1	L	A	A	A	L	a,c,h,i	Nil	-
	Mallotus paniculatus	白楸	5	95	4	1	L	A	A	A	L	a,c,h,i	Nil	-
	Pinus massoniana	馬尾松	3-10	95-160	2-6	8	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**10**								
GT42	*Ficus microcarpa*	細葉榕	2-6	95-110	2-5	3	L	A	A	A	L	a,c,h,i	Nil	-
	Macaranga tanarius var. *tomentosa*	血桐	3-4	95-100	3-4	2	L	A	A	A	L	a,c,h,i	Nil	-
	Pinus massoniana	馬尾松	3-9	95-150	4-6	6	L	A	A	A	L	a,c,h,i	Nil	-
	Polyspora axillaris	大頭茶	3-5	95-120	2-6	3	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**14**								

Tree Group No.	Species		Tree Measurements			App. Quantity of the group	Amenity Value	Form	Health Condition	Structural Condition	Suitability for Transplanting		Conservation Status	Additional Remarks
	Scientific name	Chinese Name	Height (m)	DBH (mm)	Crown Spread (m)		(High/ Medium/ Low)	(good (G)/average(A)/poor(P)			(High/ Medium/ Low)	Remarks		
GT43	*Ficus microcarpa*	細葉榕	2-6	95-110	2-5	2	L	A	A	A	L	a,c,h,i	Nil	-
	Macaranga tanarius var. *tomentosa*	血桐	3-4	95-100	3-4	2	L	A	A	A	L	a,c,h,i	Nil	-
	Pinus massoniana	馬尾松	5	130	4	1	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**5**								
GT44	*Pinus massoniana*	馬尾松	2-6	95-150	3-5	6	L	A	A	A	L	a,c,h,i	Nil	-
	Polyspora axillaris	大頭茶	2-6	95-120	2-6	6	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**12**								
GT45	*Phoenix hanceana*	刺葵	3-6	150	1-2	5	L	A	A	A	L	a,c,h,i	Nil	-
	Polyspora axillaris	大頭茶	2-5	95-100	2-3	3	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**8**								
GT46	*Polyspora axillaris*	大頭茶	2-5	95-120	2-3	9	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**9**								
GT47	*Polyspora axillaris*	大頭茶	2-5	95-130	2-3	20	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**20**								
GT48	*Ficus microcarpa*	細葉榕	2-6	100-130	2-5	3	L	A	A	A	L	a,c,h,i	Nil	-
	Polyspora axillaris	大頭茶	2-5	95-130	1-3	4	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**7**								
GT49	*Ficus microcarpa*	細葉榕	4-6	95-140	2-5	4	L	A	A	A	L	a,c,h,i	Nil	-
	Polyspora axillaris	大頭茶	3-5	95-110	1-3	8	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**12**								
GT50	*Polyspora axillaris*	大頭茶	3-5	95-110	1-3	6	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**6**								
GT51	*Polyspora axillaris*	大頭茶	2-5	95-110	1-3	5	L	A	A	A	L	a,c,h,i	Nil	
				App. Total		**5**								
GT52	*Mallotus paniculatus*	白楸	2-4	95-100	2-3	2	L	A	A	A	L	a,c,h,i	Nil	
	Polyspora axillaris	大頭茶	2-6	95-100	3-4	10	L	A	A	A	L	a,c,h,i	Nil	
				App. Total		**12**								
GT53	*Polyspora axillaris*	大頭茶	2-6	95-100	3-4	10	L	A	A	A	L	a,c,h,i	Nil	
				App. Total		**10**								
GT55	*Polyspora axillaris*	大頭茶	2-4	95-100	3-4	10	L	A	A	A	L	a,c,h,i	Nil	
				App. Total		**10**								
GT56	*Machilus* spp.	潤楠屬	4-5	95-100	3-5	10	L	A	A	A	L	a,c,h,i	Nil	
	Polyspora axillaris	大頭茶	2-4	95-100	3-4	10	L	A	A	A	L	a,c,h,i	Nil	
				App. Total		**20**								
GT57	*Polyspora axillaris*	大頭茶	2-5	95-100	3-4	10	L	A	A	A	L	a,c,h,i	Nil	
				App. Total		**10**								
GT58	*Polyspora axillaris*	大頭茶	3-4	95-100	3-4	5	L	A	A	A	L	a,c,h,i	Nil	
	Phoenix hanceana	刺葵	2-5	95-100	2-3	5	L	A	A	A	L	a,c,h,i	Nil	
				App. Total		**10**								
GT59	*Polyspora axillaris*	大頭茶	1-3	95-100	3-4	10	L	A	A	A	L	a,c,h,i	Nil	
	Phoenix hanceana	刺葵	1-3	95-100	2-3	5	L	A	A	A	L	a,c,h,i	Nil	
				App. Total		**15**								

Tree Group No.	Species		Tree Measurements			App. Quantity of the group	Amenity Value	Form	Health Condition	Structural Condition	Suitability for Transplanting		Conservation Status	Additional Remarks
	Scientific name	Chinese Name	Height (m)	DBH (mm)	Crown Spread (m)		(High/ Medium/ Low)	(good (G)/average(A)/poor(P)			(High/ Medium/ Low)	Remarks		
GT60	*Machilus* spp.	潤楠屬	4-5	95-100	3-5	10	L	A	A	A	L	a,c,h,i	Nil	
	Polyspora axillaris	大頭茶	3-4	95-100	3-4	10	L	A	A	A	L	a,c,h,i	Nil	
				App. Total		**20**								
GT61	*Machilus* spp.	潤楠屬	4-5	95-100	3-5	10	L	A	A	A	L	a,c,h,i	Nil	
	Polyspora axillaris	大頭茶	3-4	95-100	3-4	10	L	A	A	A	L	a,c,h,i	Nil	
				App. Total		**20**								
GT63	*Machilus* spp.	潤楠屬	4-5	95-100	3-5	10	L	A	A	A	L	a,c,h,i	Nil	
	Polyspora axillaris	大頭茶	3-4	95-100	3-4	10	L	A	A	A	L	a,c,h,i	Nil	
				App. Total		**20**								
GT64	*Machilus* spp.	潤楠屬	4-5	95-100	3-5	10	L	A	A	A	L	a,c,h,i	Nil	
	Polyspora axillaris	大頭茶	3-4	95-100	3-4	10	L	A	A	A	L	a,c,h,i	Nil	
				App. Total		**20**								
GT65	*Machilus* spp.	潤楠屬	4-5	95-100	3-5	10	L	A	A	A	L	a,c,h,i	Nil	-
	Polyspora axillaris	大頭茶	3-4	95-100	3-4	10	L	A	A	A	L	a,c,h,i	Nil	-
				App. Total		**20**								
GT66	*Machilus* spp.	潤楠屬	4-5	95-100	3-5	10	L	A	A	A	L	a,c,h,i	Nil	
	Polyspora axillaris	大頭茶	3-4	95-100	3-4	10	L	A	A	A	L	a,c,h,i	Nil	
				App. Total		**20**								
GT67	*Machilus* spp.	潤楠屬	4-5	95-100	3-5	10	L	A	A	A	L	a,c,h,i	Nil	
	Polyspora axillaris	大頭茶	3-4	95-100	3-4	10	L	A	A	A	L	a,c,h,i	Nil	
				App. Total		**20**								
GT68	*Machilus* spp.	潤楠屬	4-5	95-100	3-5	10	L	A	A	A	L	a,c,h,i	Nil	
				App. Total		**10**								
	Polyspora axillaris	大頭茶	3-4	95-100	3-4	10	L	A	A	A	L	a,c,h,i	Nil	
				App. Total		**10**								
GT69	*Bridelia tomentosa*	土蜜樹	3-4	95-100	3-4	10	L	A	A	A	L	a,c,h,i	Nil	
	Ficus microcarpa	細葉榕	6-8	300-400	9-10	2	L	A	A	A	L	a,c,h,i	Nil	
	Macaranga tanarius var. *tomentosa*	血桐	3-4	95-100	3-4	10	L	A	A	A	L	a,c,h,i	Nil	
	Mallotus paniculatus	白楸	2-4	95-100	2-3	2	L	A	A	A	L	a,c,h,i	Nil	
				App. Total		**24**								
GT70	*Ficus microcarpa*	細葉榕	8-12	200-300	6-12	2	L	A	A	A	L	a,c,h,i	Nil	
	Macaranga tanarius var. *tomentosa*	血桐	3-4	95-100	3-4	10	L	A	A	A	L	a,c,h,i	Nil	
				App. Total		**12**								
GT71	*Bridelia tomentosa*	土蜜樹	3-4	95-100	3-4	5	L	A	A	A	L	a,c,h,i	Nil	
	Macaranga tanarius var. *tomentosa*	血桐	3-4	95-100	3-4	10	L	A	A	A	L	a,c,h,i	Nil	
				App. Total		**15**								
GT72	*Machilus* spp.	潤楠屬	4-5	95-100	3-5	11	L	A	A	A	L	a,c,h,i	Nil	
	Polyspora axillaris	大頭茶	3-4	95-100	3-4	10	L	A	A	A	L	a,c,h,i	Nil	
				App. Total		**21**								
				App.Total		1079								

Remarks for Suitability for Transplanting

Tree Group No.	Species		Tree Measurements			App. Quantity of the group	Amenity Value	Form	Health Condition	Structural Condition	Suitability for Transplanting		Conservation Status	Additional Remarks
	Scientific name	Chinese Name	Height (m)	DBH (mm)	Crown Spread (m)		(High/ Medium/ Low)	(good (G)/average(A)/poor(P)			(High/ Medium/ Low)	Remarks		

(a) Low amenity value;
(b) Irrecoverable form after transplanting (e.g. transplanting requires substantial crown and root pruning);
(c) Low chance of survival upon transplanting;
(d) Very large size (unless the feasibility to transplant has been considered financially reasonable and technically feasible during the feasibility stage);
(e) With evidence of over-maturity and onset of senescence;
(f) With poor health, structure or form (e.g. imbalanced form, leaning , with major cavity/cracks/splits); or cavity/cracks/splits); or
(g) Undesirable species (e.g. *Leucaena leucocephala* which is an invasive exotic and self-seeding tree);
(h) On steep slope.
(i) trees grown under poor conditions which have limited the formation of proper root ball necessary for transplanting

Conservation status
Rare tree species listed in "Rare and Precious of Hong Kong"
(http://herbarium.gov.hk/PublicationsPreface.aspx?BookNameId=1) published by Agriculture, Fisheries and Conservation Department
Endangered plant species protected under the Protection of Endangered Species of Animals and Plants Ordinance (Cap. 586)
Tree species listed in the Forestry Regulations (Cap. 96A) under the Forests and Countryside Ordinance (Cap. 96)
IUCN red list of threatened species

Individual Tree Assessment Schedule

Project: Agreement No. CE 80/2021 (CE): Expansion of Aberdeen Typhoon Shelter – Investigation, Design and Construction
Tree Assessment Schedule - Individual Tree

Tree Survey Date: 6 November 2025
Tree Survey conducted and prepared by: Au Pui Yan (ISA CA:HK-1777A)

Tree Recorded under Tree Group(s) in Approved EIA Broad Brush Tree Survey	Drawing No.	Tree No.	Scientific Name	Chinese Name	Measurements			Amenity Value(high(H)/ Medium(M)/ low(L))	Form (good(G)/ average(A)/ poor(P))	Health (good(G)/ average(A)/ poor(P))	Structural condition (good(G)/ average(A)/ poor(P))	Suitability for Transplanting		Conservation Status	Recommendations	Justification	Maintenance department to provide comments on TPRP		Additional Remarks
					Height(m)	DBH(mm)	Crown spread(m)					(high(H)/ medium(M)/ low(L))	Remarks *		Retain/ remove/ transplant		Before	After	
GT 2(a)	60684361/TPRP/101	T0001	*Ficus benjamina*	垂葉榕	4.5	250	5	L	P	A	P	L	a,b,f,i	Nil	Retain	-	CEDD	CEDD	Confined roots with adjacent fencing
GT 2(a)	60684361/TPRP/101	T0002	*Celtis sinensis*	朴樹	5	350	5	L	P	A	P	L	a,b,f,i	Nil	Retain	-	CEDD	CEDD	Confined roots with adjacent fencing
GT 2(a)	60684361/TPRP/101	T0003	*Celtis sinensis*	朴樹	6	600	10	L	P	A	P	L	a,b,d,f,i	Nil	Retain	-	LCSD	LCSD	Confined roots with adjacent fencing
GT 2(a), 2(b)	60684361/TPRP/101	T0004	*Leucaena leucocephala*	銀合歡	4	150	3	L	P	A	P	L	a,b,f,g	Nil	Retain	-	LCSD	LCSD	
GT 2(a), 2(b)	60684361/TPRP/101	T0005	*Leucaena leucocephala*	銀合歡	5	200	4	L	P	A	P	L	a,b,f,g	Nil	Retain	-	Ocean Park Corporation	Ocean Park Corporation	
GT 2(a), 2(b)	60684361/TPRP/101	T0006	*Leucaena leucocephala*	銀合歡	4	150	3	L	P	A	P	L	a,b,f,g	Nil	Retain	-	Ocean Park Corporation	Ocean Park Corporation	
GT 2(a), 2(b)	60684361/TPRP/101	T0007	*Leucaena leucocephala*	銀合歡	4	150	4	L	P	A	P	L	a,b,f,g	Nil	Retain	-	Ocean Park Corporation	Ocean Park Corporation	
GT23, GT25, GT26	60684361/TPRP/102	T0021	*Roystonea regia*	王棕	7	350	3	L	P	A	A	L	a,b,d,f,i	Nil	Retain	-	Ocean Park Corporation	Ocean Park Corporation	
GT23, GT25, GT26	60684361/TPRP/102	T0022	*Roystonea regia*	王棕	7	350	3	L	P	A	A	L	a,b,d,f,i	Nil	Retain	-	Ocean Park Corporation	Ocean Park Corporation	
GT23, GT25, GT26	60684361/TPRP/102	T0023	*Roystonea regia*	王棕	7	370	3	L	P	P	A	L	a,b,c,d,f,i	Nil	Remove	-	Ocean Park Corporation	-	1 living frond; low live crown ratio; asymmatrical crown
NIL	60684361/TPRP/102	T0024	*Alstonia scholaris*	黑板樹	15	750	5	M	P	A	A	L	b,d,f,i	Nil	Retain	-	Ocean Park Corporation	Ocean Park Corporation	
GT23, GT25, GT26	60684361/TPRP/102	T0025	*Roystonea regia*	王棕	5	350	2.5	L	P	A	A	L	a,b,f,i	Nil	Retain	-	Ocean Park Corporation	Ocean Park Corporation	
GT23, GT25, GT26	60684361/TPRP/102	T0026	*Roystonea regia*	王棕	5	350	2.5	L	P	A	A	L	a,b,f,i	Nil	Retain	-	Ocean Park Corporation	Ocean Park Corporation	
GT23, GT25, GT26	60684361/TPRP/102	T0027	*Roystonea regia*	王棕	5	350	2.5	L	P	A	A	L	a,b,f,i	Nil	Retain	-	Ocean Park Corporation	Ocean Park Corporation	
GT23, GT25, GT26	60684361/TPRP/102	T0028	*Roystonea regia*	王棕	5	350	3	L	P	A	A	L	a,b,f,i	Nil	Retain	-	Ocean Park Corporation	Ocean Park Corporation	
GT23, GT25, GT26	60684361/TPRP/102	T0029	*Roystonea regia*	王棕	5	350	3	L	P	A	A	L	a,b,f,i	Nil	Retain	-	Ocean Park Corporation	Ocean Park Corporation	
GT23, GT25, GT26	60684361/TPRP/102	T0030	*Roystonea regia*	王棕	5	400	2.5	L	P	A	A	L	a,b,f,i	Nil	Retain	-	Ocean Park Corporation	Ocean Park Corporation	
GT23, GT25, GT26	60684361/TPRP/102	T0031	*Roystonea regia*	王棕	5	400	2	L	P	A	A	L	a,b,f,i	Nil	Retain	-	Ocean Park Corporation	Ocean Park Corporation	
GT23, GT25, GT26	60684361/TPRP/102	T0032	*Livistona chinensis*	蒲葵	6	250	2.5	L	P	A	A	L	a,b,f,i	Nil	Retain	-	Ocean Park Corporation	Ocean Park Corporation	
GT23, GT25, GT26	60684361/TPRP/102	T0033	*Roystonea regia*	王棕	5	350	2	L	P	A	A	L	a,b,f,i	Nil	Retain	-	Ocean Park Corporation	Ocean Park Corporation	

Remarks for Suitability for Transplanting
(a) Low amenity value;
(b) Irrecoverable form after transplanting (e.g. transplanting requires substantial crown and root pruning);
(c) Low chance of survival upon transplanting;
(d) Very large size (unless the feasibility to transplant has been considered financially reasonable and technically feasible during the feasibility stage);
(e) With evidence of over-maturity and onset of senescence;
(f) With poor health, structure or form (e.g. imbalanced form, leaning , with major cavity/cracks/splits); or cavity/cracks/splits); or
(g) *Undesirable species (e.g. ***Leucaena leucocephala*** which is an invasive exotic and self-seeding tree);
(h) On steep slope.
(i) trees grown under poor conditions which have limited the formation of proper root ball necessary for transplanting

Rare tree species listed in "Rare and Precious of Hong Kong"
(A) (http://herbarium.gov.hk/PublicationsPreface.aspx?BookNameId=1) published by Agriculture, Fisheries and Conservation Department
(B) Endangered plant species protected under the Protection of Endangered Species of Animals and Plants Ordinance (Cap. 586)
(C) Tree species listed in the Forestry Regulations (Cap. 96A) under the Forests and Countryside Ordinance (Cap. 96)
(D) IUCN Red List of Threatened Species

***Remarks on Cap.96A-Forestry Regulations:**

In accordance with AFCD² and Regulation 3 of Cap.96A, Forestry Regulation (Cap.96A) do not apply to plants grown outside Hong Kong or any land held form the government under a lease, licence or permit or by virtue of an Ordinance. In this connection, common and widespread exotic species that are commercially grown from nurseries including Cemllia species(e.g. Camellia japonica), Lagerstroemia species (e.g. Lagerstroemia species, Lagerstroemia indica), Magnoliaceae species (e.g. Magnolia grandiflora, Michelia champaca, Michelia figo, Michelia X alba and Yulania spp.) etc. are not considered protected plants or plants of conservation interest, and are not regarded as "Tree Particular Interest' in this report.



PHOTO OF GT1, 4 & 8



PHOTO OF GT1 & 2

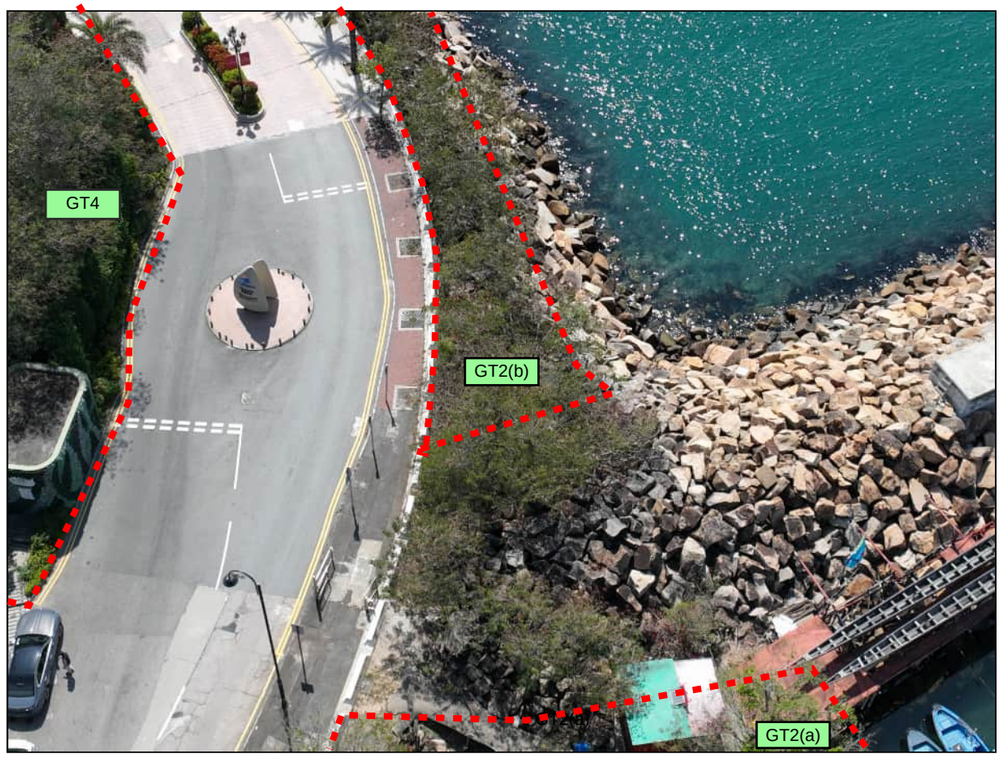


PHOTO OF GT2 & 4

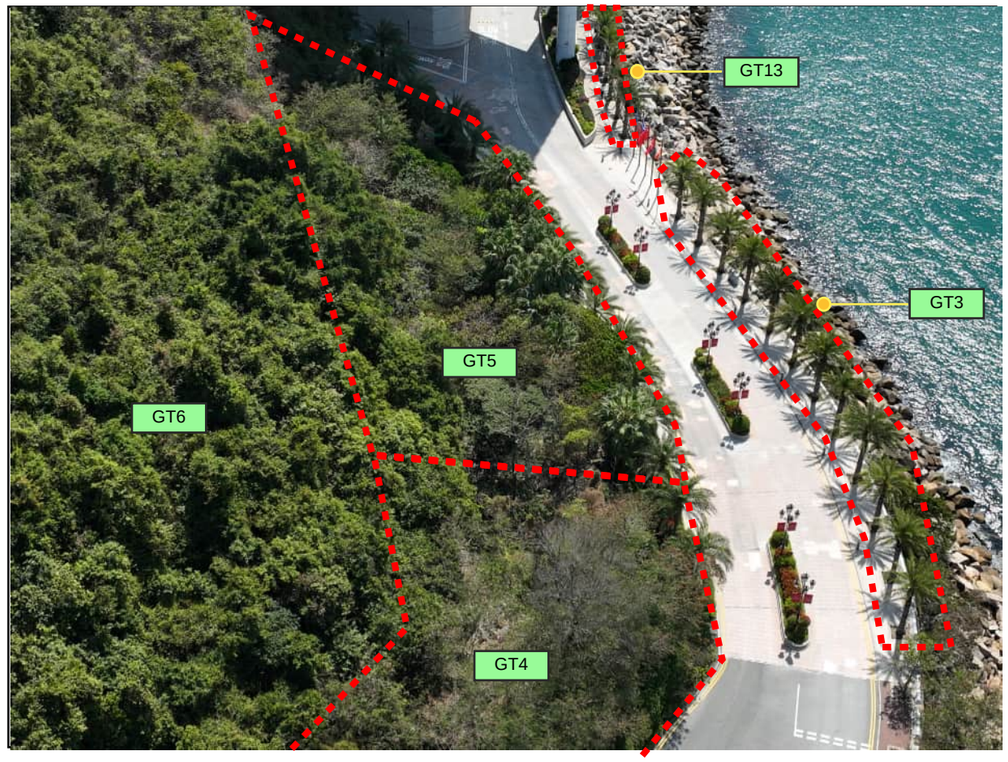


PHOTO OF GT3, 4, 5, 6 & 13

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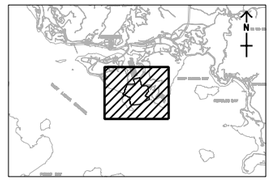
STATUS
階段

SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 1

SHEET NUMBER
圖紙編號

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:

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Plot File by: GaoT1
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PATH: P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_105.dgn



PHOTO OF GT4, 5, 6, 7 & 8



PHOTO OF GT4, 5 & 6



PHOTO OF GT3, 5, 6, 12 & 13

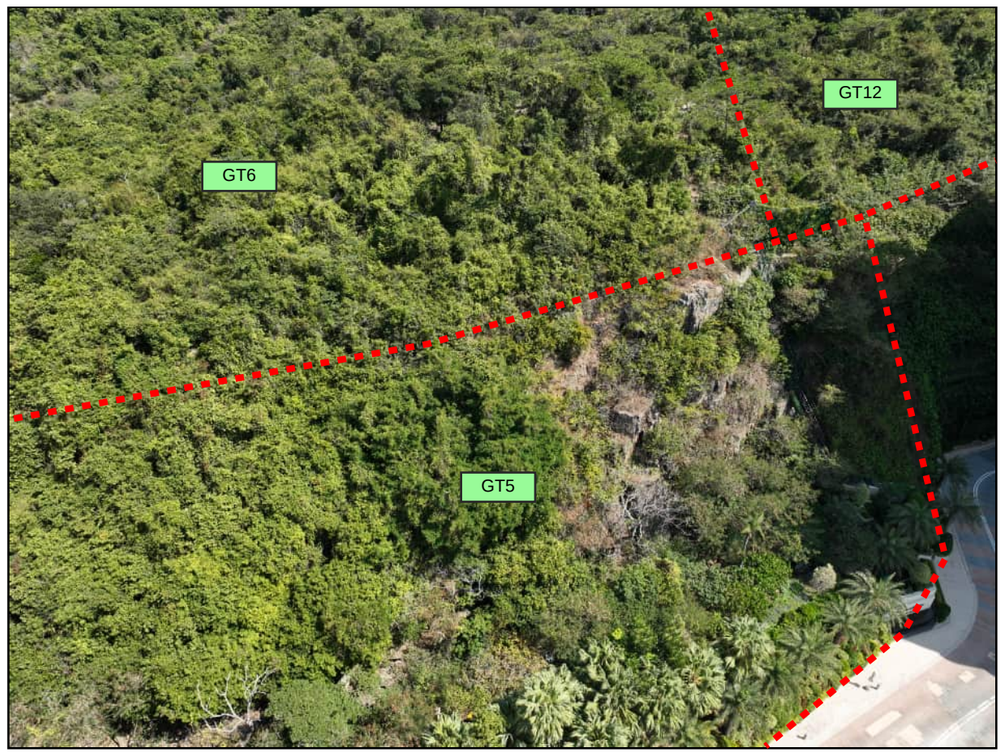

PHOTO OF GT2, 6, 7 & 12

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SCALE
比例
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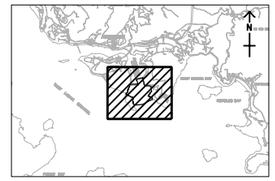
DIMENSION UNIT
尺寸單位
METRES

KEY PLAN
索引圖
A3 1 : 200000



PROJECT NO.
項目編號
60684361

CONTRACT NO.
合約編號
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圖紙名稱
APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 2

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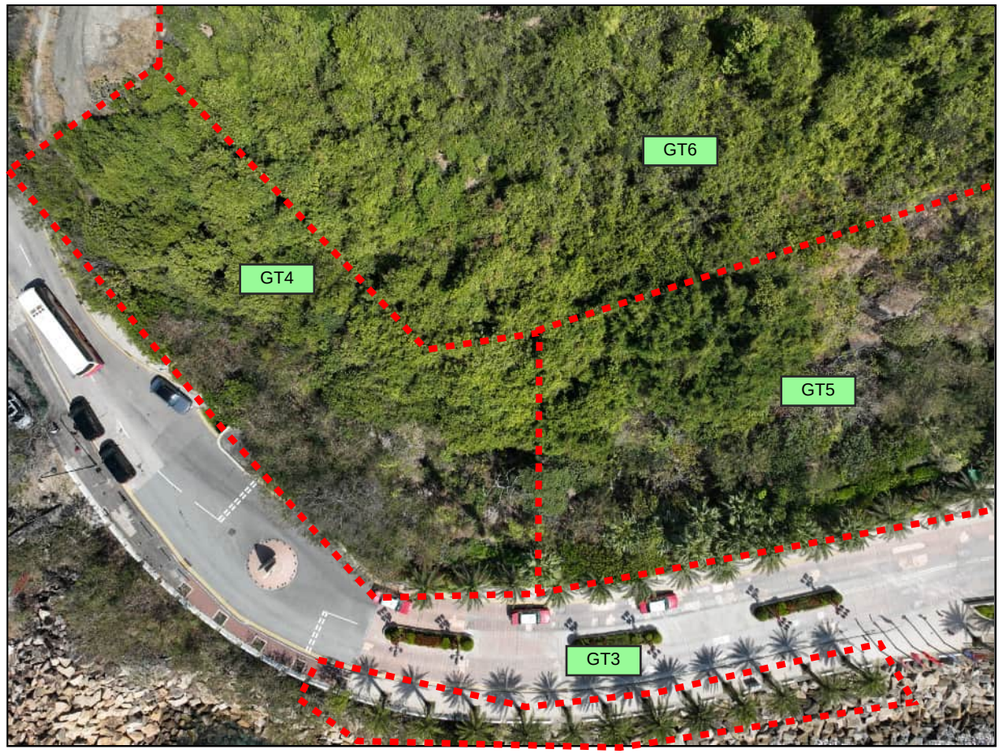

PHOTO OF GT4, 5 & 6

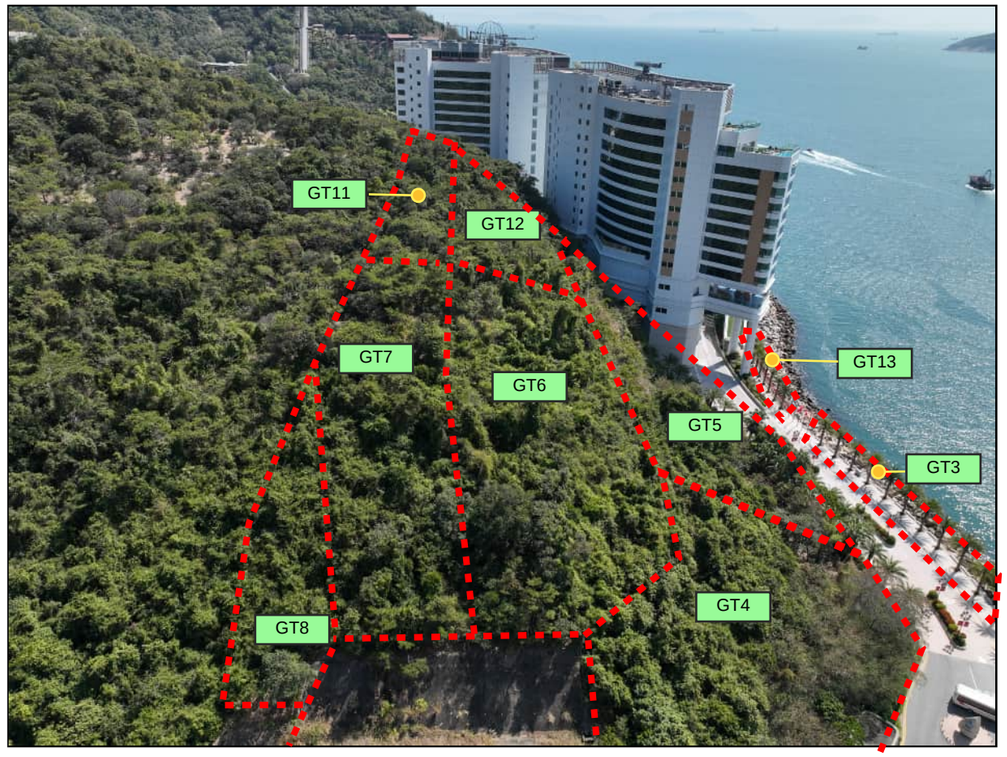

PHOTO OF GT4, 5, 6, 7, 8, 9,10, 11 & 12

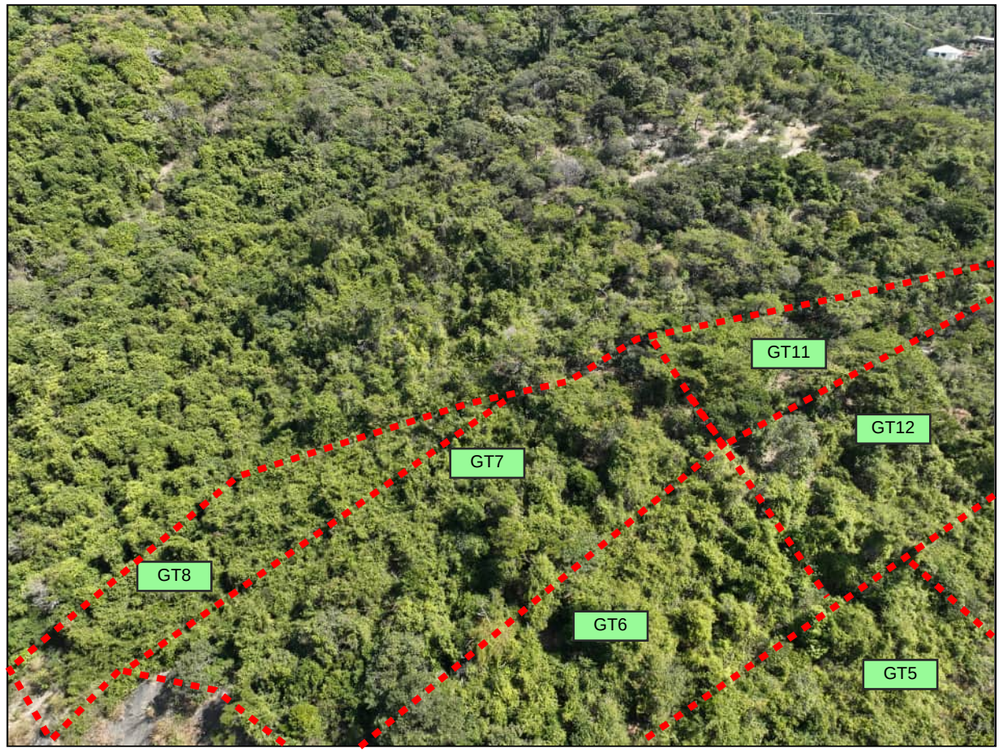

PHOTO OF GT5, 6, 7, 8, 11, 12

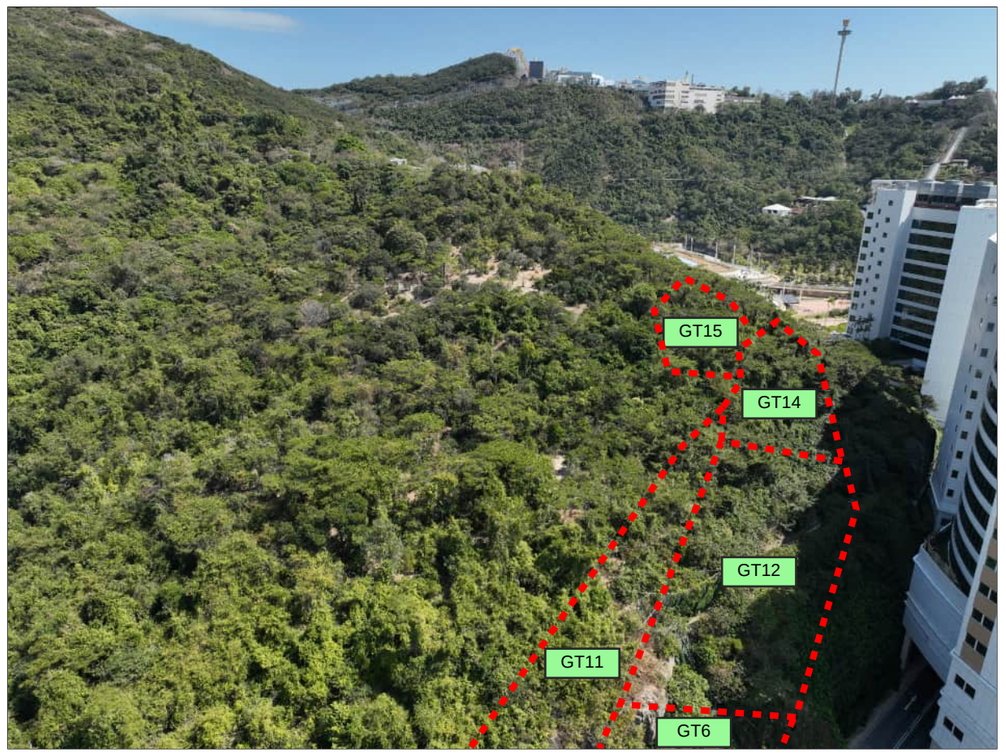

PHOTO OF GT5 (2)

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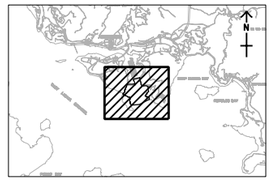
SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 3

SHEET NUMBER
圖紙編號

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Checked:
Designer:
Project Management Initials:

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Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm



PHOTO OF GT13 (1)



PHOTO OF GT13 (2)

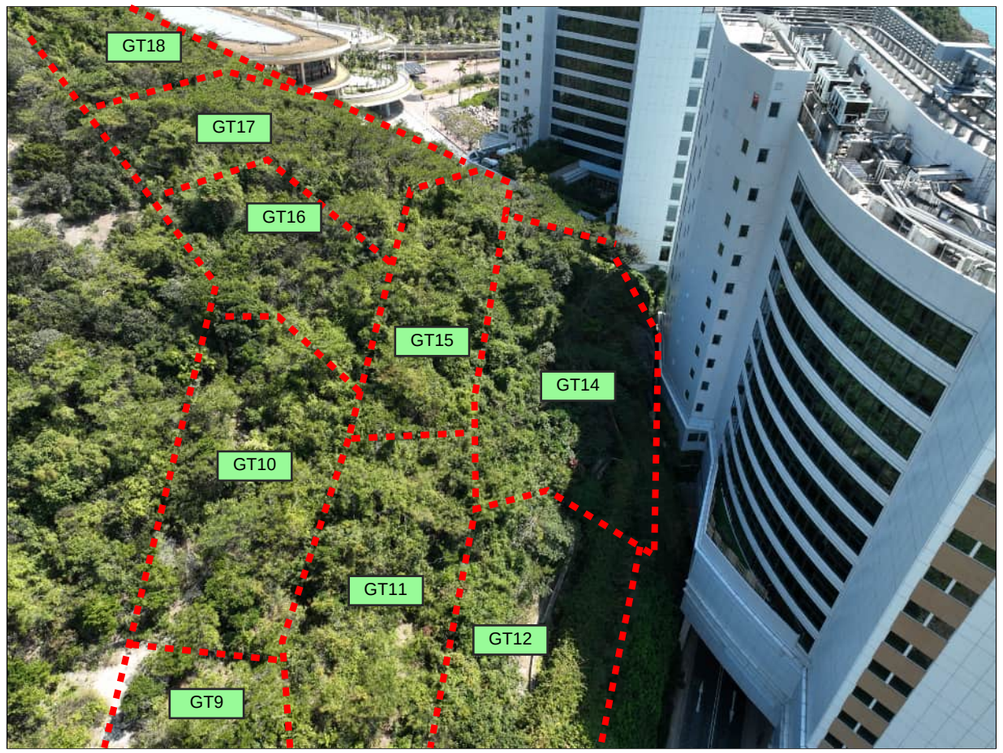

PHOTO OF GT9, 10, 11, 12, 14, 15, 16, 17 & 18

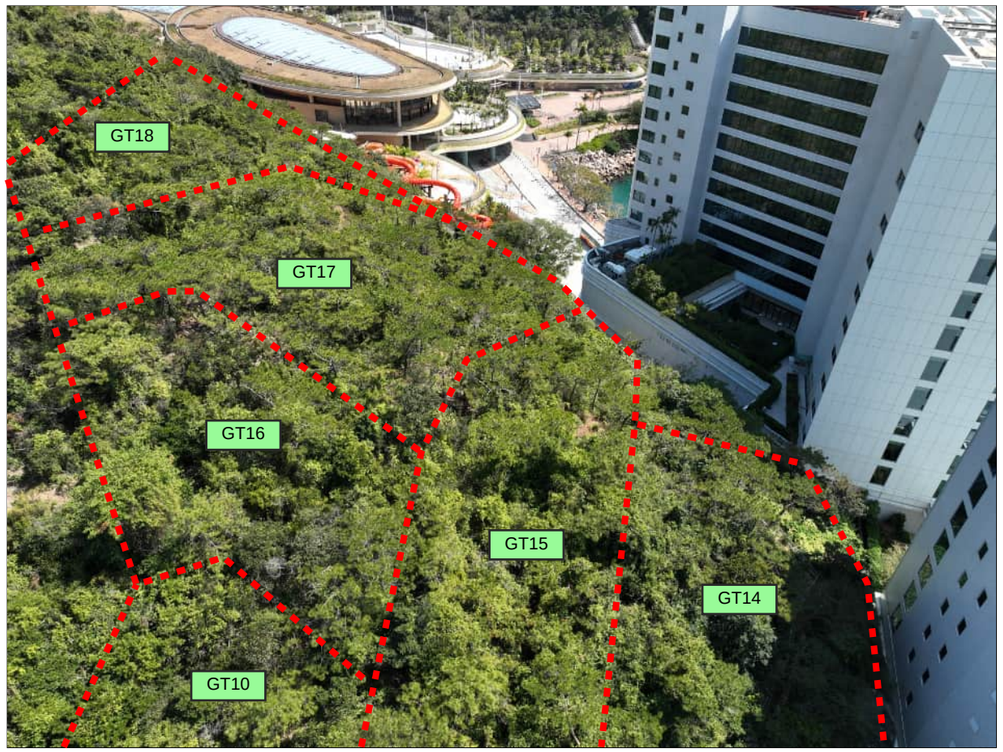

PHOTO OF GT10, 14, 15, 16, 17 & 18

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DIMENSION UNIT 尺寸單位: METRES

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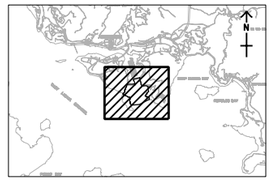

PROJECT NO. 項目編號: 60684361

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APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 4

SHEET NUMBER
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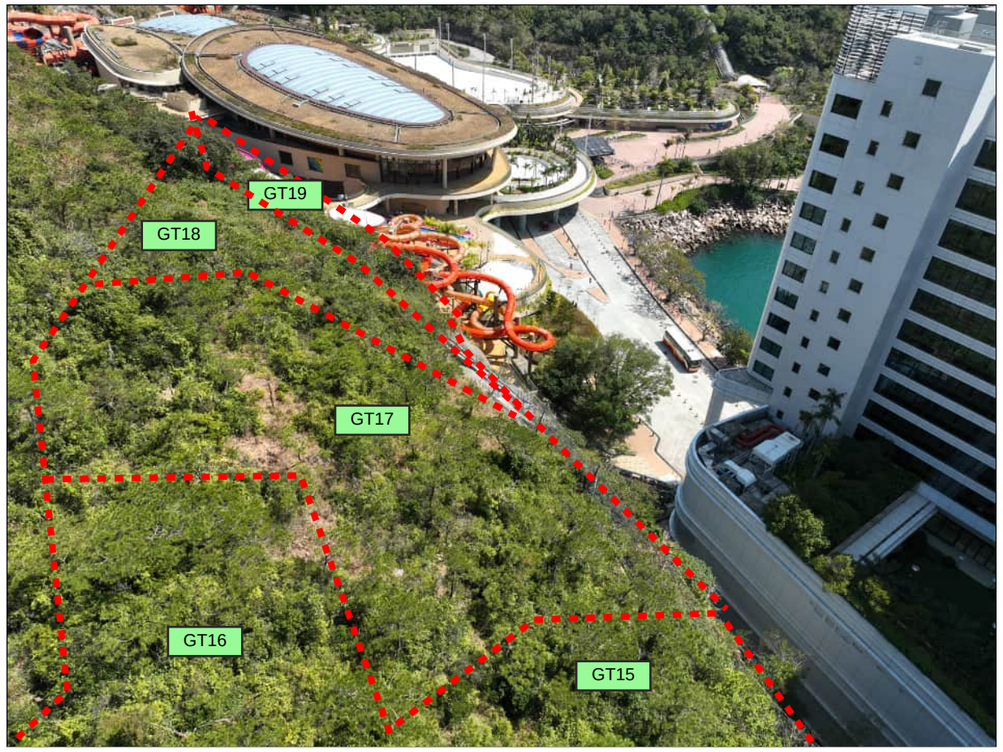

PHOTO OF GT15, 16, 17, 18 & 19

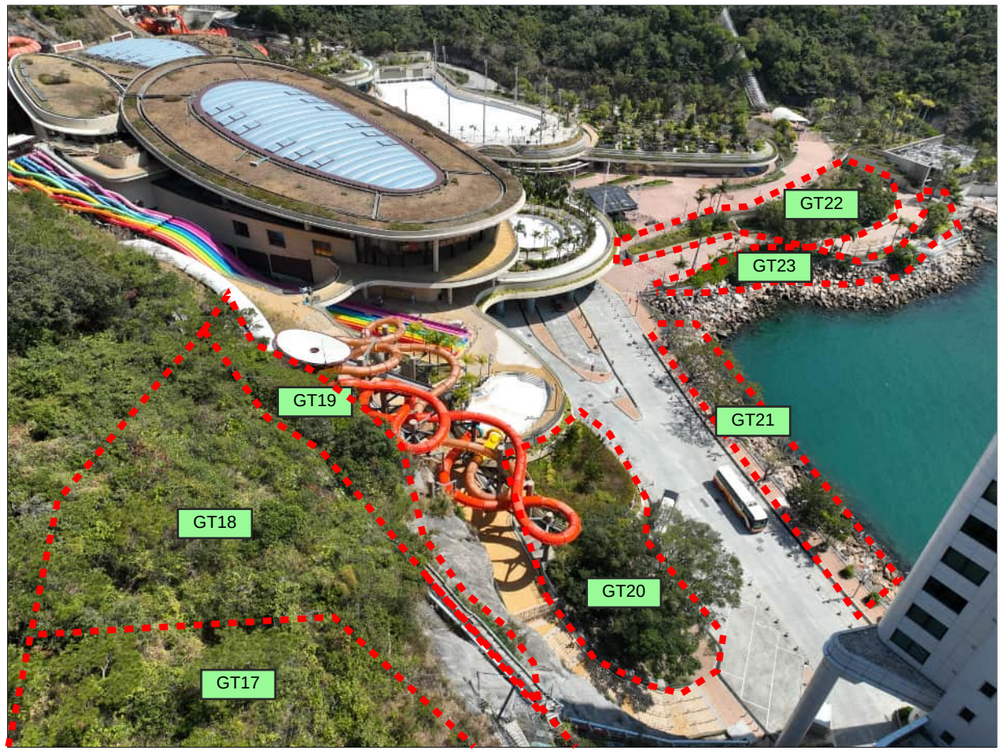

PHOTO OF GT17, 18, 19, 20, 21, 22 & 23

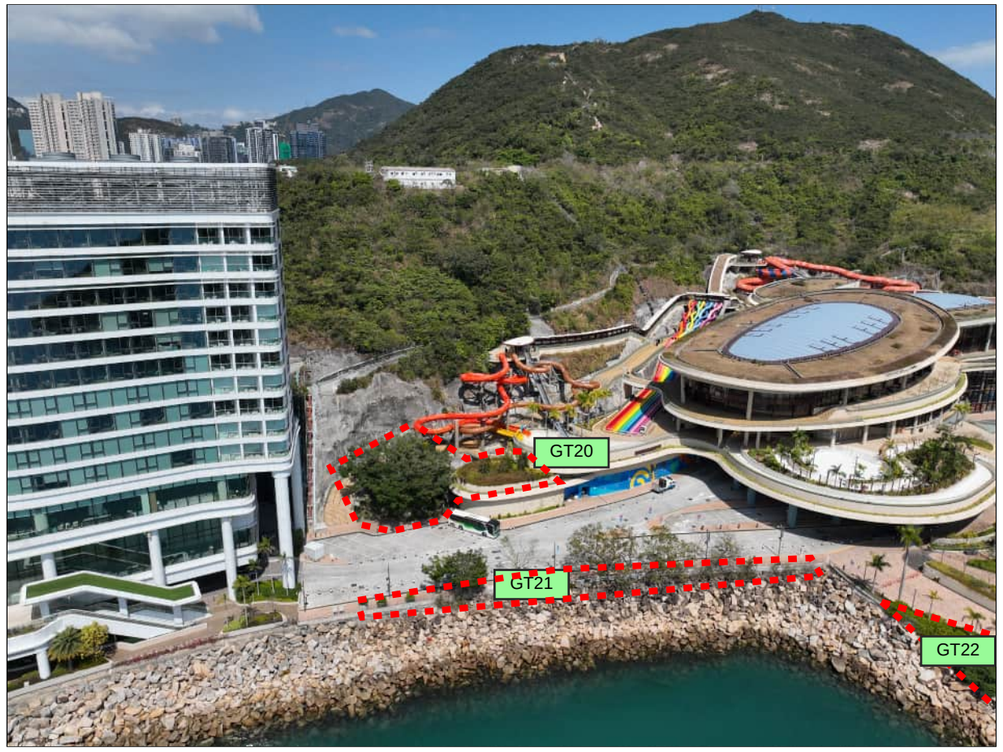

PHOTO OF GT20, 21 & 22

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SCALE 比例
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DIMENSION UNIT 尺寸單位
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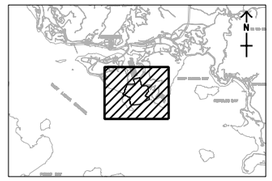
KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號
60684361

CONTRACT NO. 合約編號
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圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 5

SHEET NUMBER
圖紙編號

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Checked:
Designer:
Initials:
Project Management

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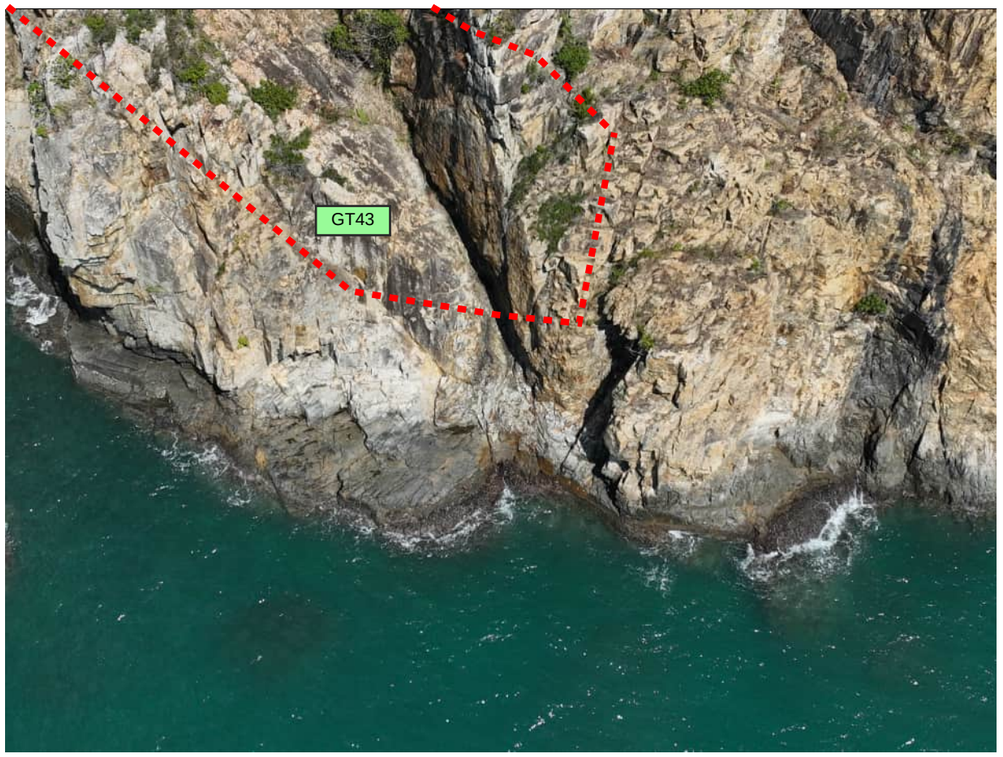

PHOTO OF GT43 (1)



PHOTO OF GT43 (2)

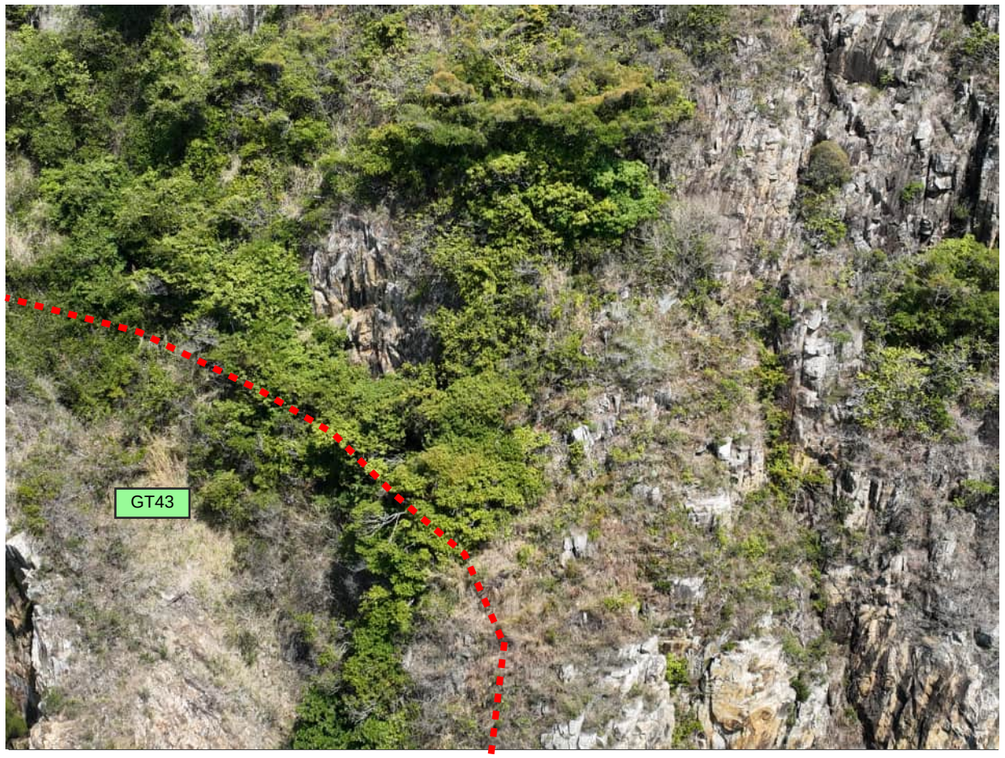

PHOTO OF GT43 (3)



PHOTO OF GT43 (4)

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SCALE 比例: A3 1 : 6000

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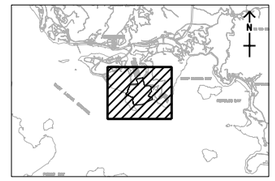

PROJECT NO. 項目編號: 60684361

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SHEET TITLE
紙張名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 6

SHEET NUMBER
圖紙編號

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

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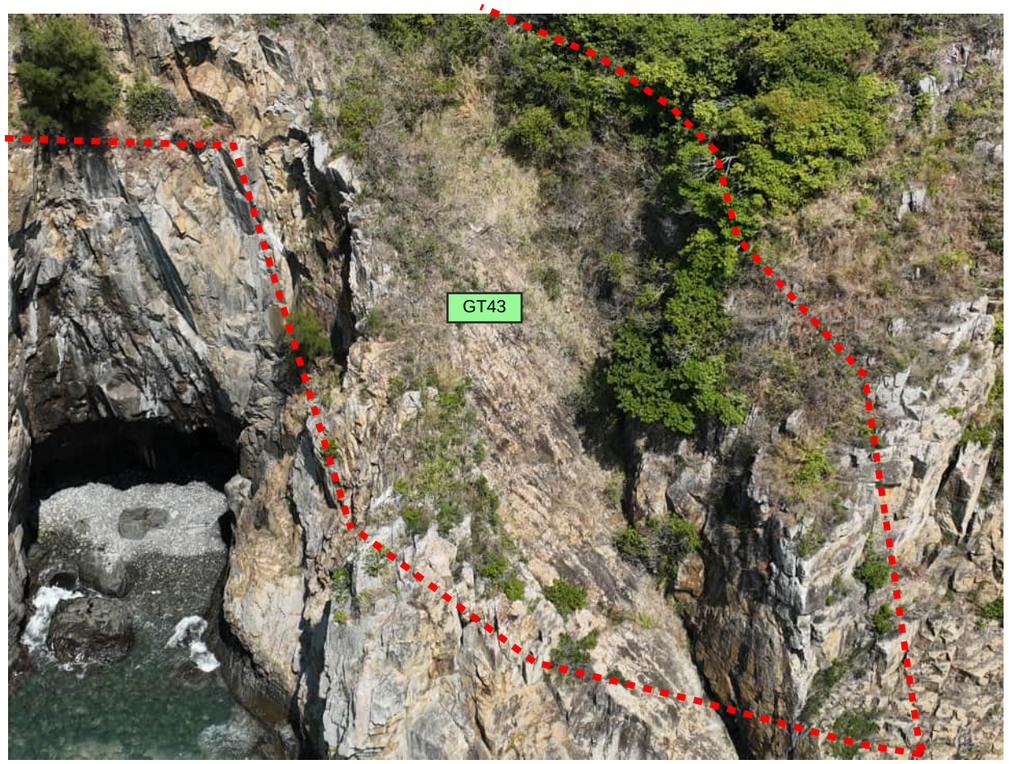
PHOTO OF GT43 (5)



PHOTO OF GT43 (6)



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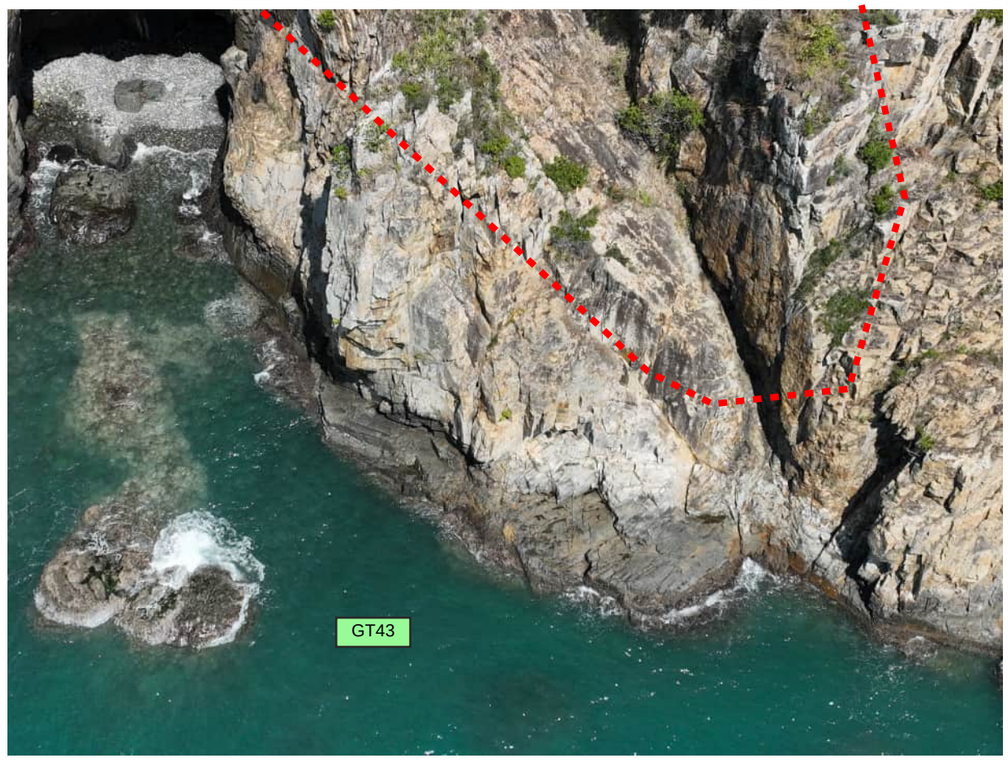

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DIMENSION UNIT 尺寸單位: METRES

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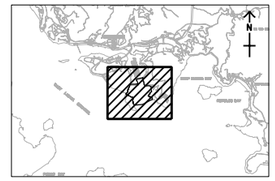

PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
紙張名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 7

SHEET NUMBER
圖紙編號

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

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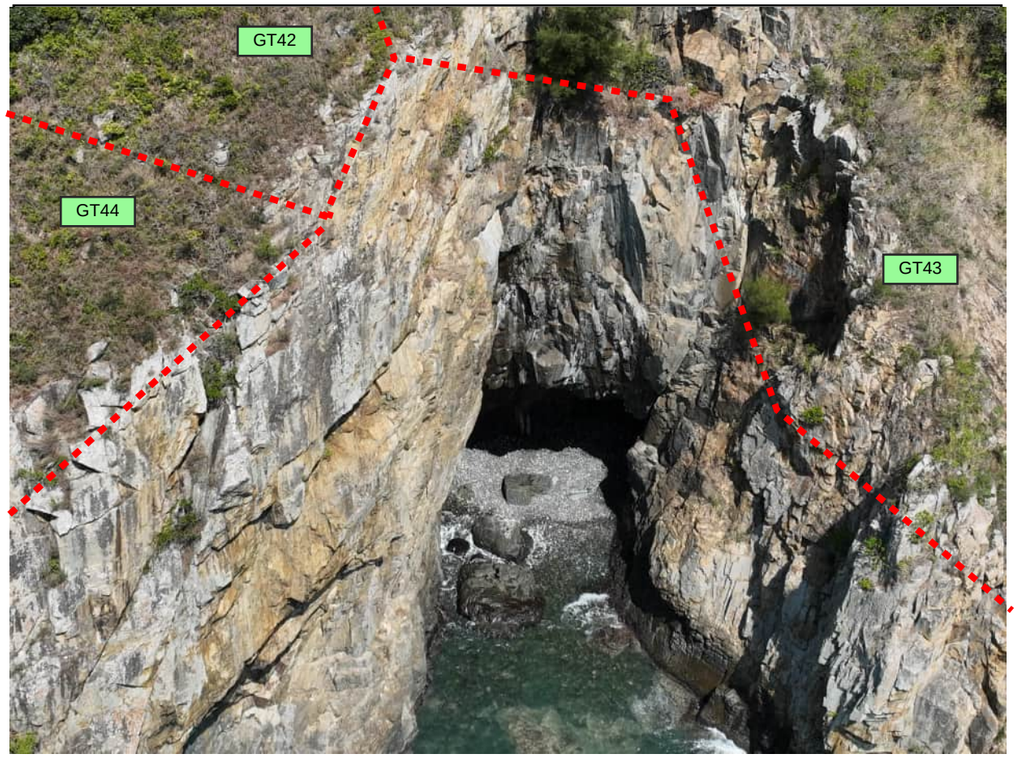


PHOTO OF GT42, 43&44 (1)

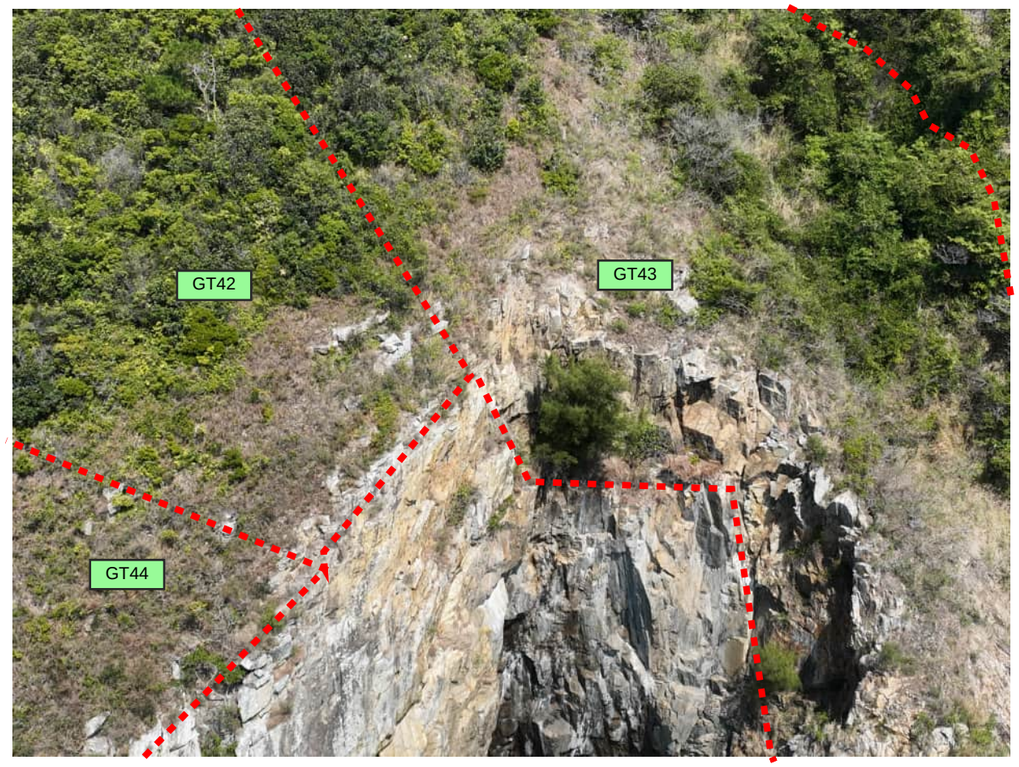
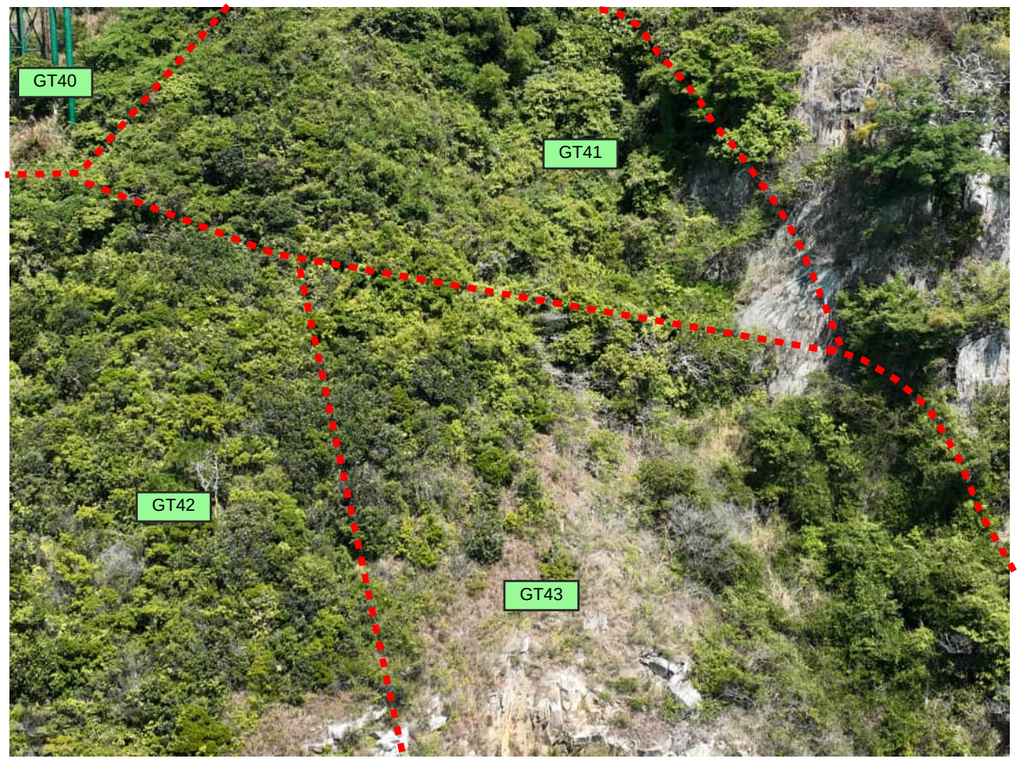


PHOTO OF GT42, 43&44 (2)



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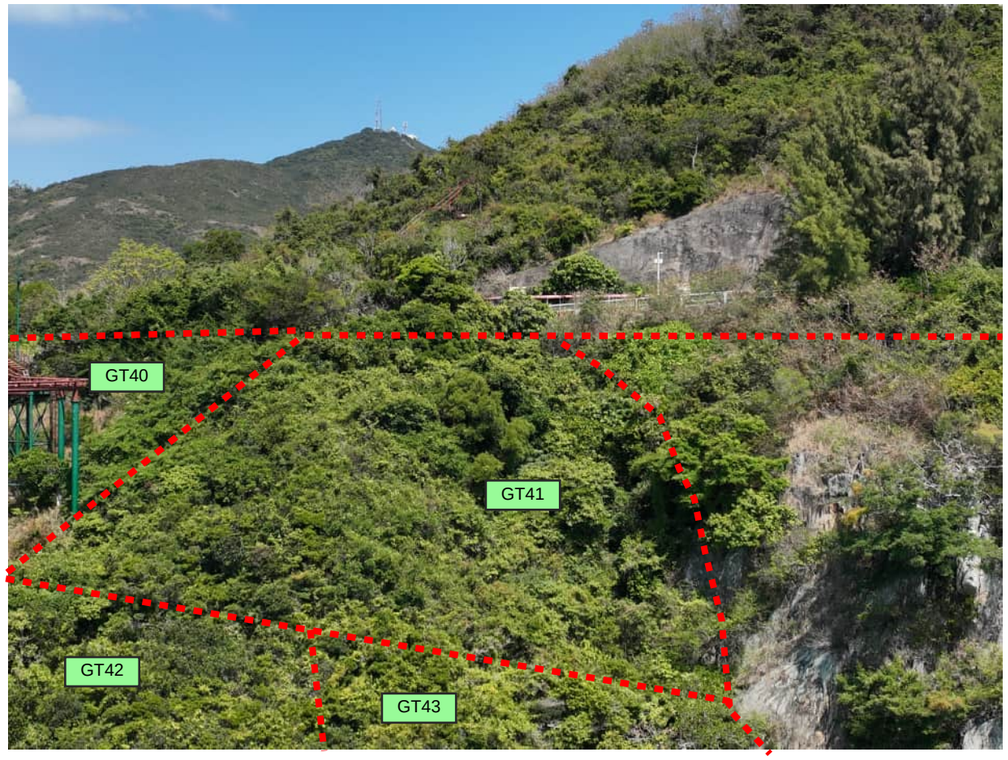

PHOTO OF GT40, 41, 42&43 (2)

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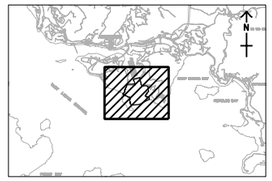
SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
紙張名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 8

SHEET NUMBER
紙張編號

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

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Plot File by: Gao11
PATH: P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_105.dgn
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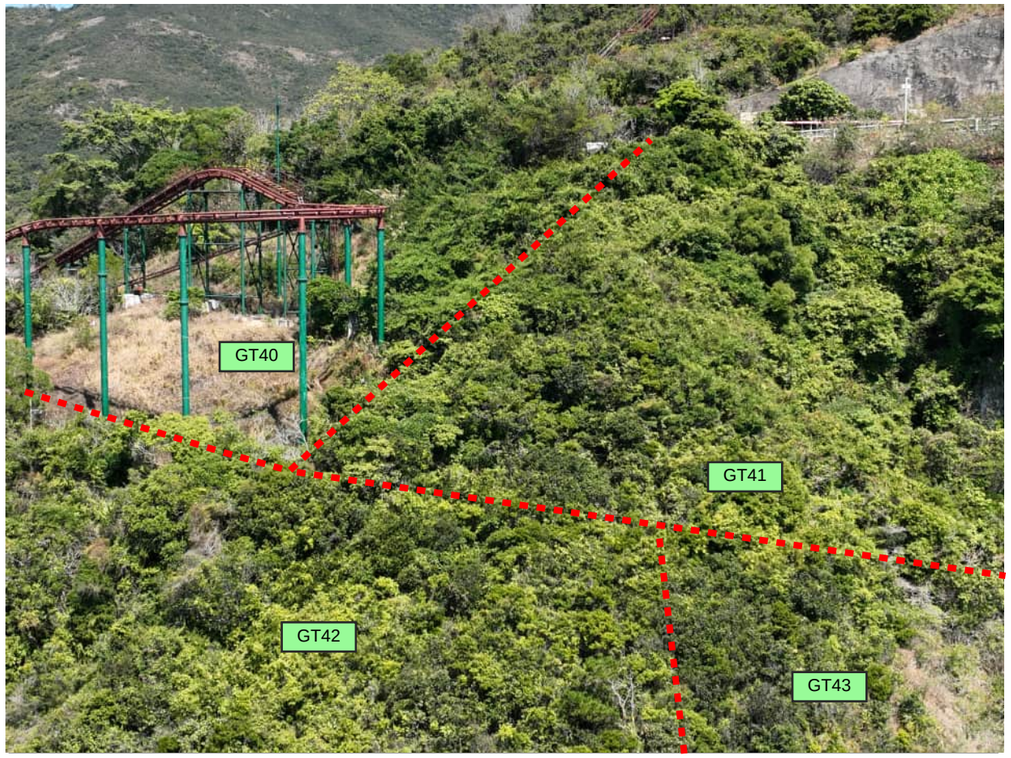


PHOTO OF GT40, 41, 42&43 (3)

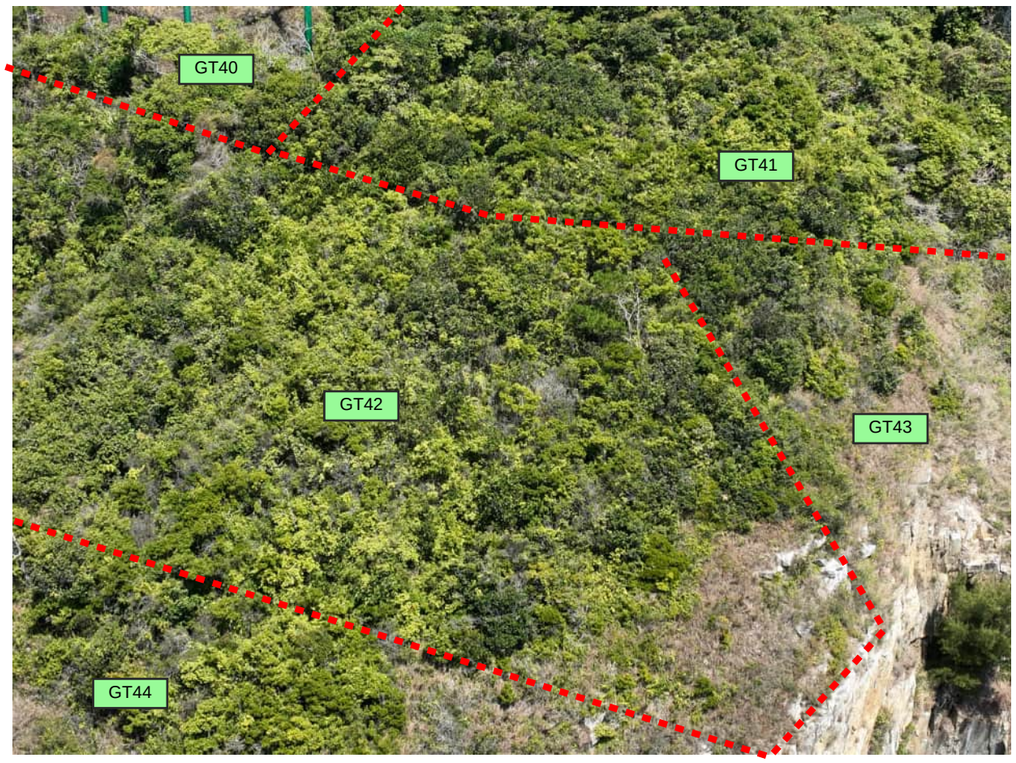
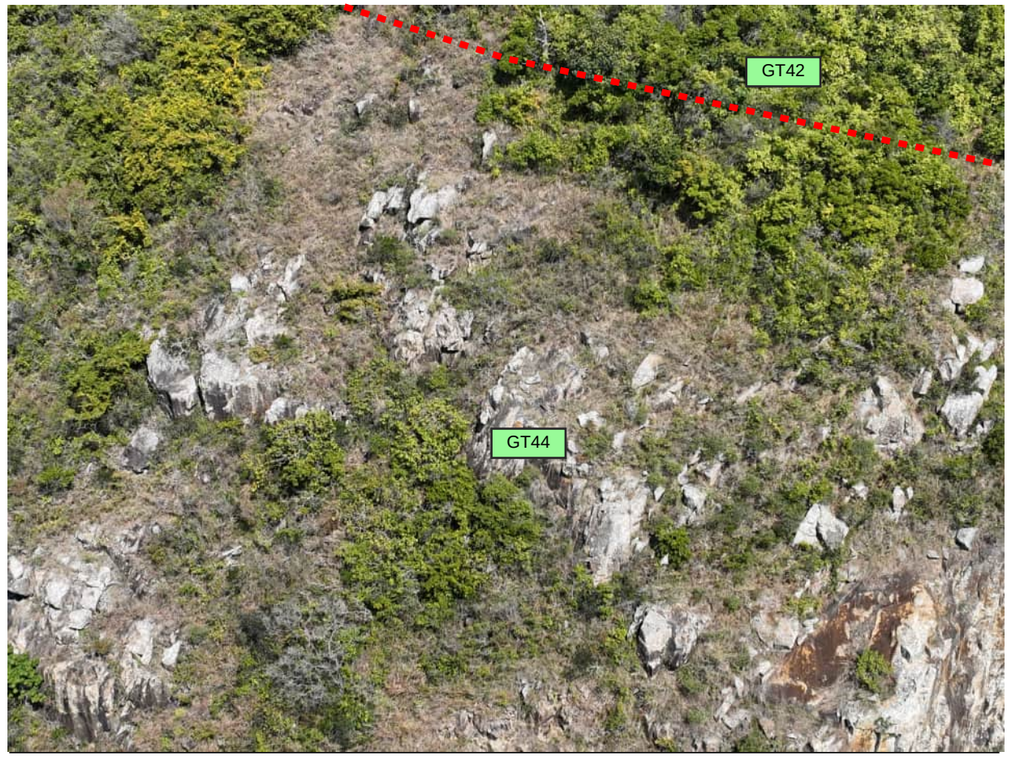


PHOTO OF GT40, 41, 42, 43& 44 (1)



PHOTO OF GT42, 43&44 (1)



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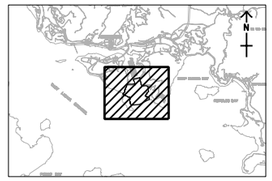
SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361

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SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 9

SHEET NUMBER
圖紙編號

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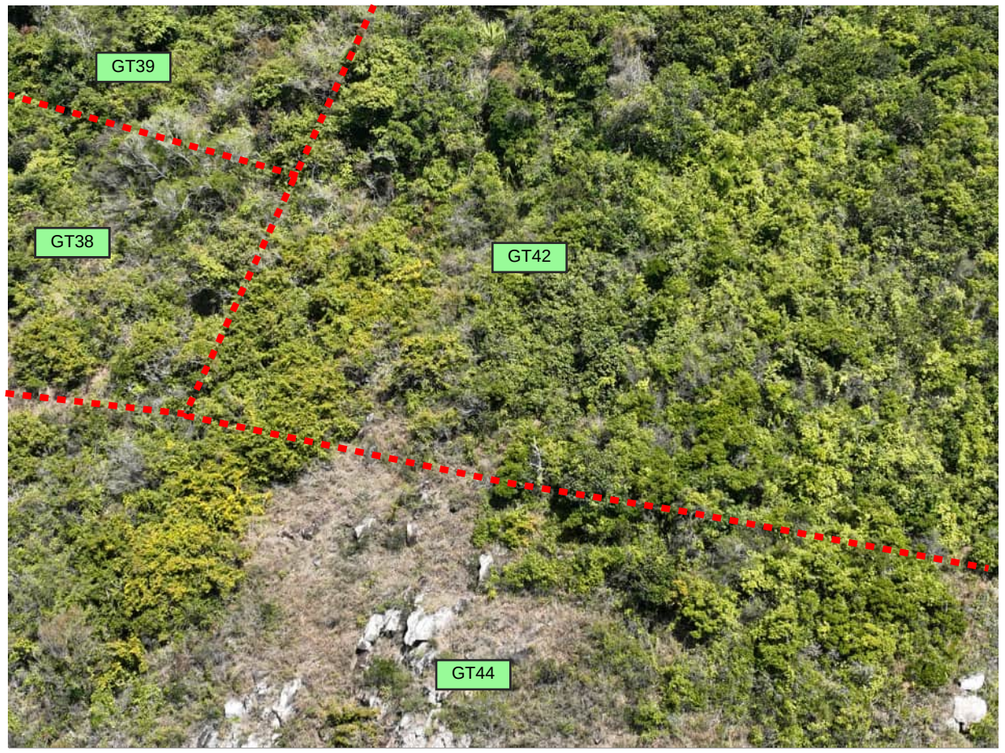

PHOTO OF GT38, 39, 42&44 (1)



PHOTO OF GT38, 39&42 (1)



PHOTO OF GT44 (1)



PHOTO OF GT38, 42&44 (1)

ISO A1 594mm x 841mm
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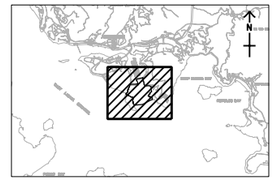
SCALE 比例: A3 1 : 6000
DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



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SHEET TITLE
圖紙名稱
APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 10

SHEET NUMBER
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PHOTO OF GT38, GT39, 42&44 (1)

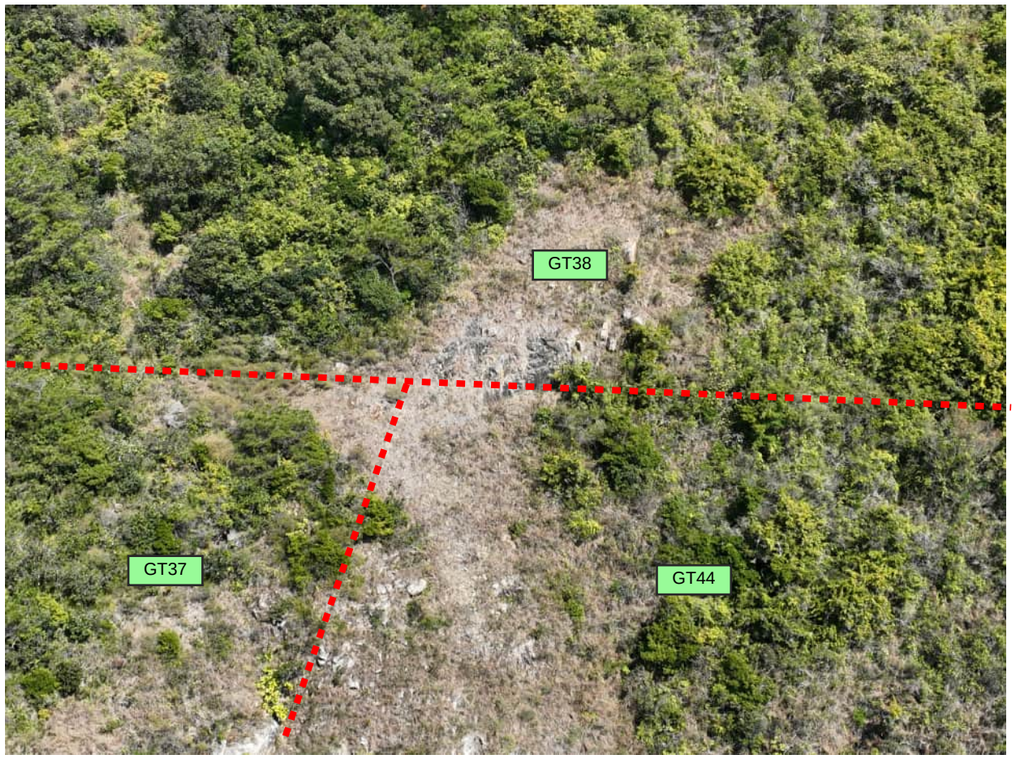

PHOTO OF GT38, 39&42 (1)



PHOTO OF GT37&44 (1)

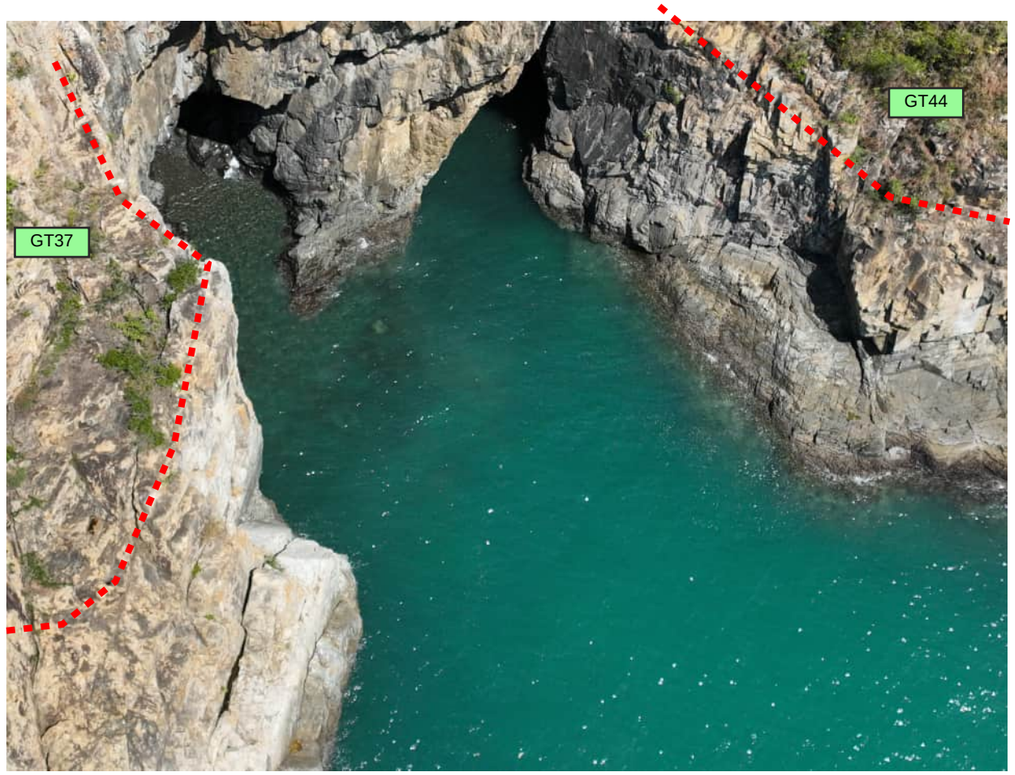

PHOTO OF GT37&44 (2)

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

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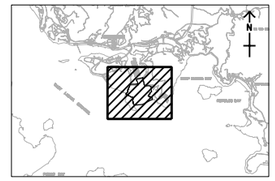
SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



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SHEET TITLE
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APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 11

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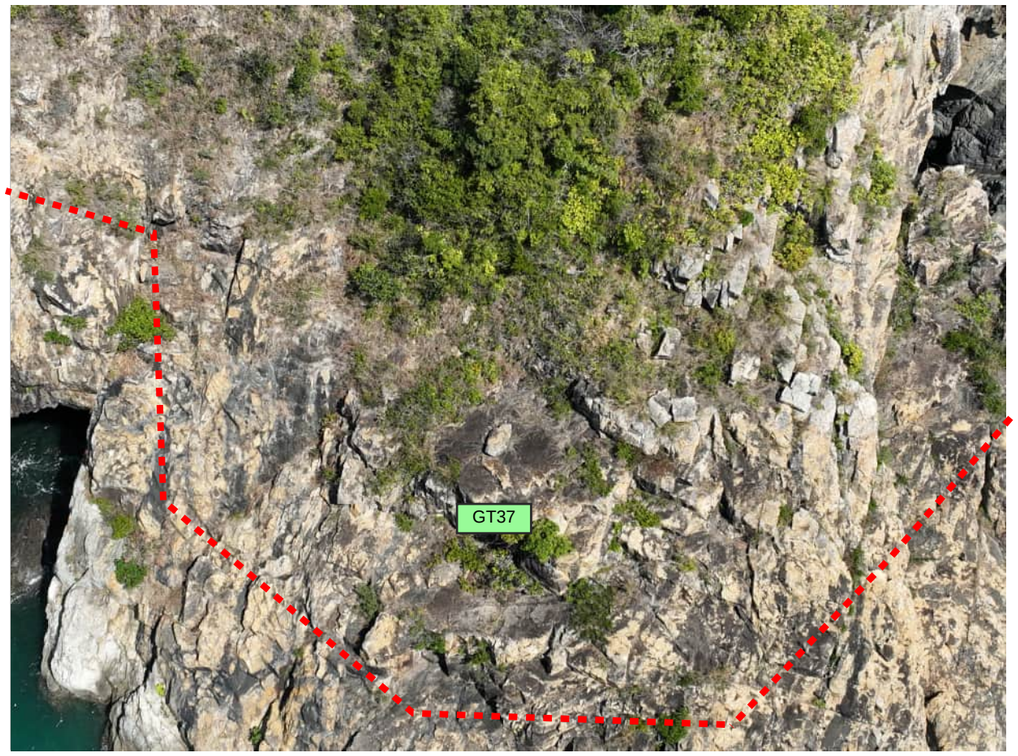

PHOTO OF GT37 (1)



PHOTO OF GT37&44 (3)

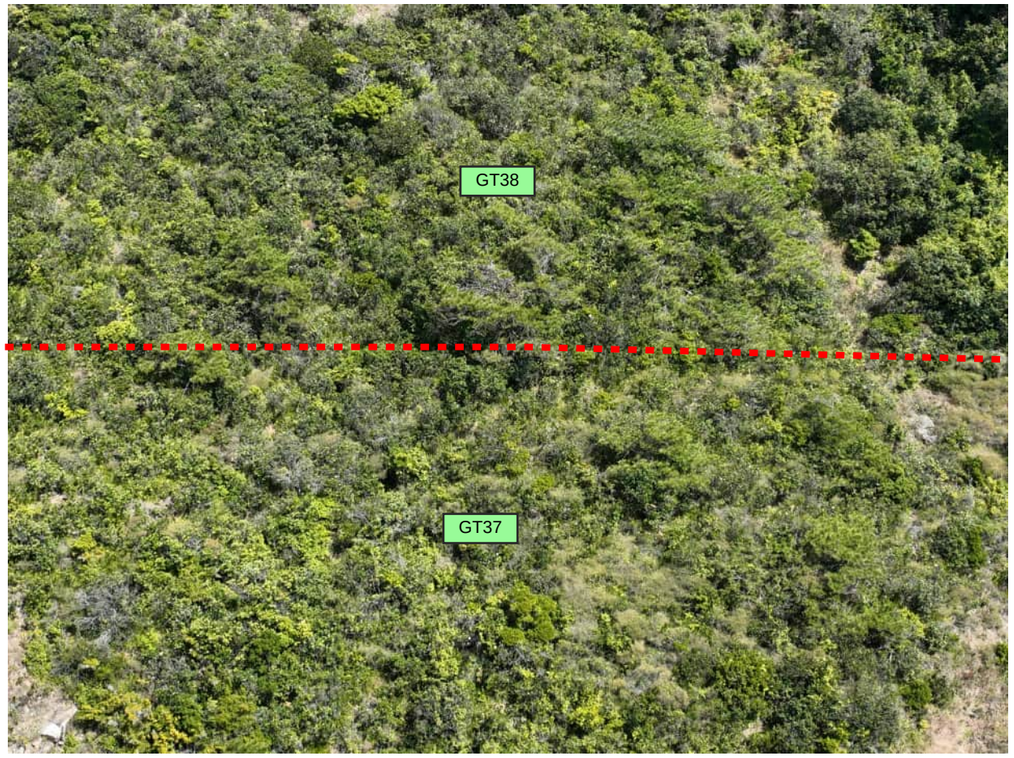

PHOTO OF GT37&38 (1)

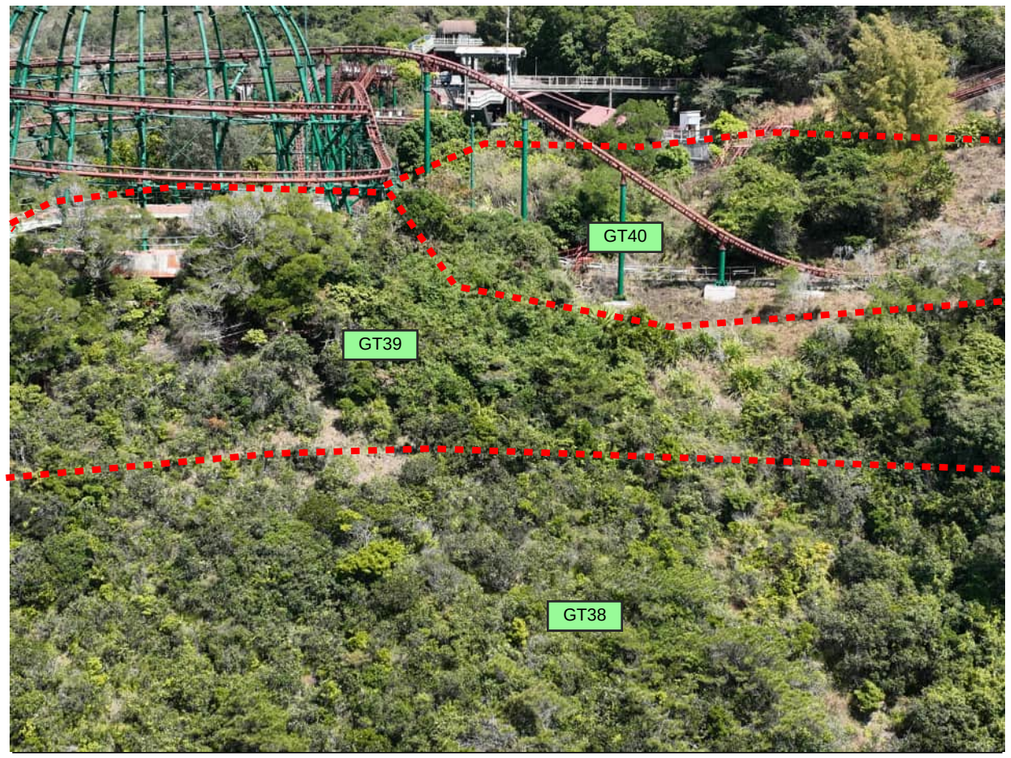

PHOTO OF GT38, 39&40 (1)

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

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SCALE 比例
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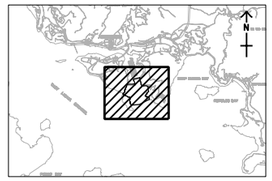
DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A3 1 : 200000



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SHEET TITLE
圖紙名稱

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PHOTO OF GT37&38 (2)

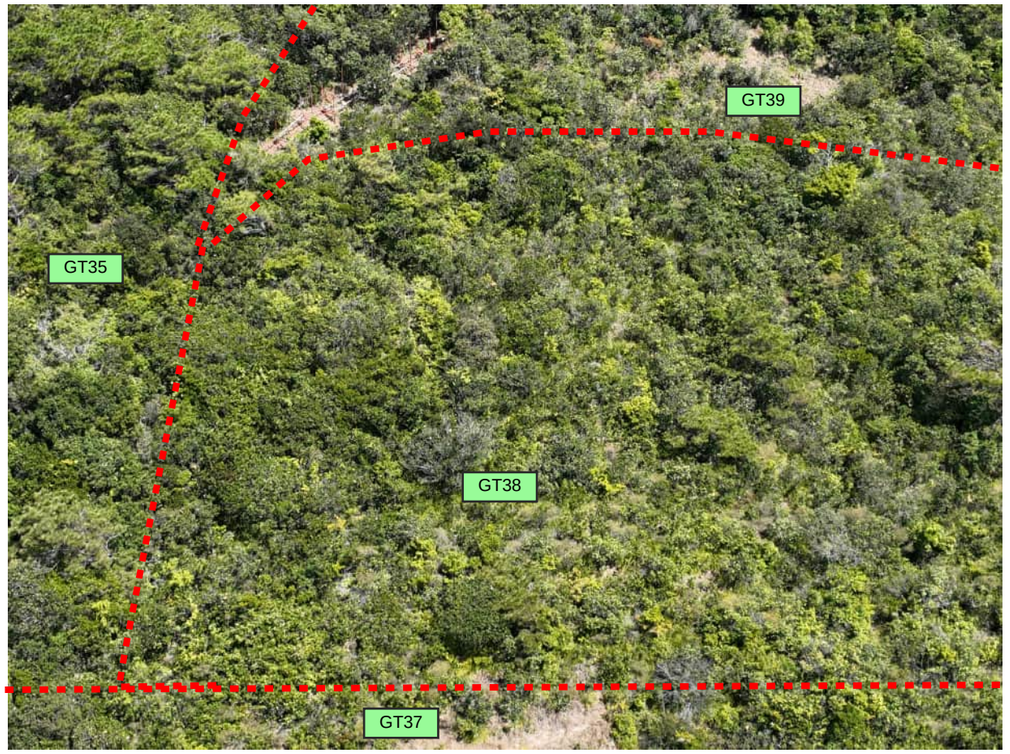

PHOTO OF GT35, 37, 38&39 (1)

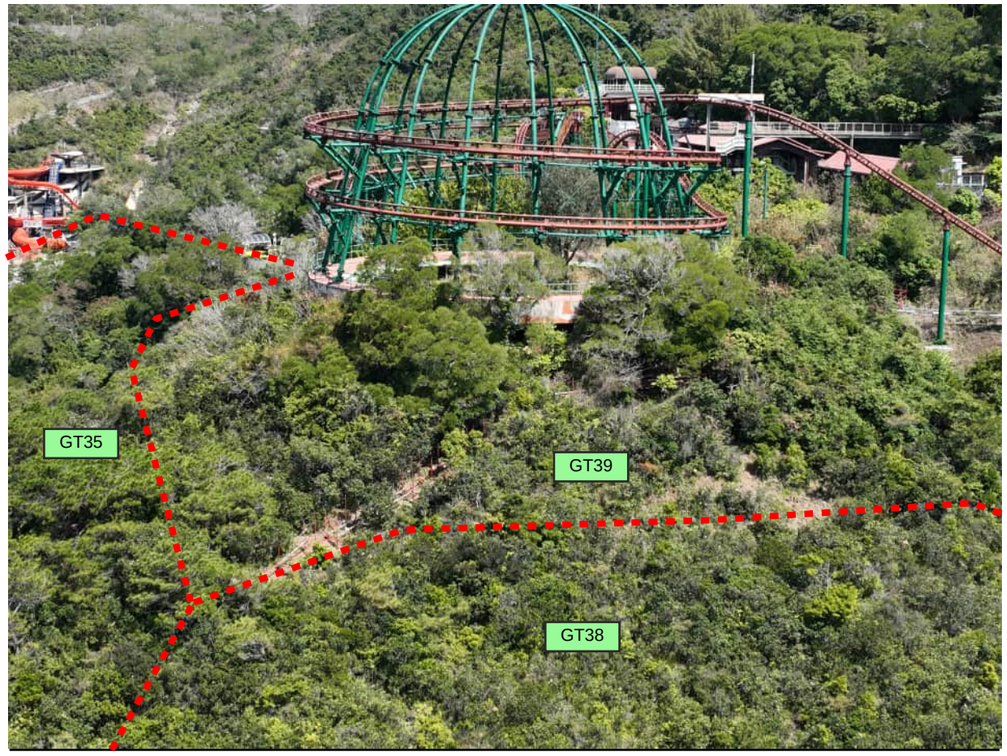

PHOTO OF GT35, 38&39 (1)



PHOTO OF GT35, 37&48 (1)

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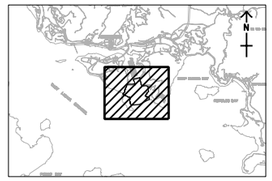
SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖: A3 1 : 200000



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APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 13

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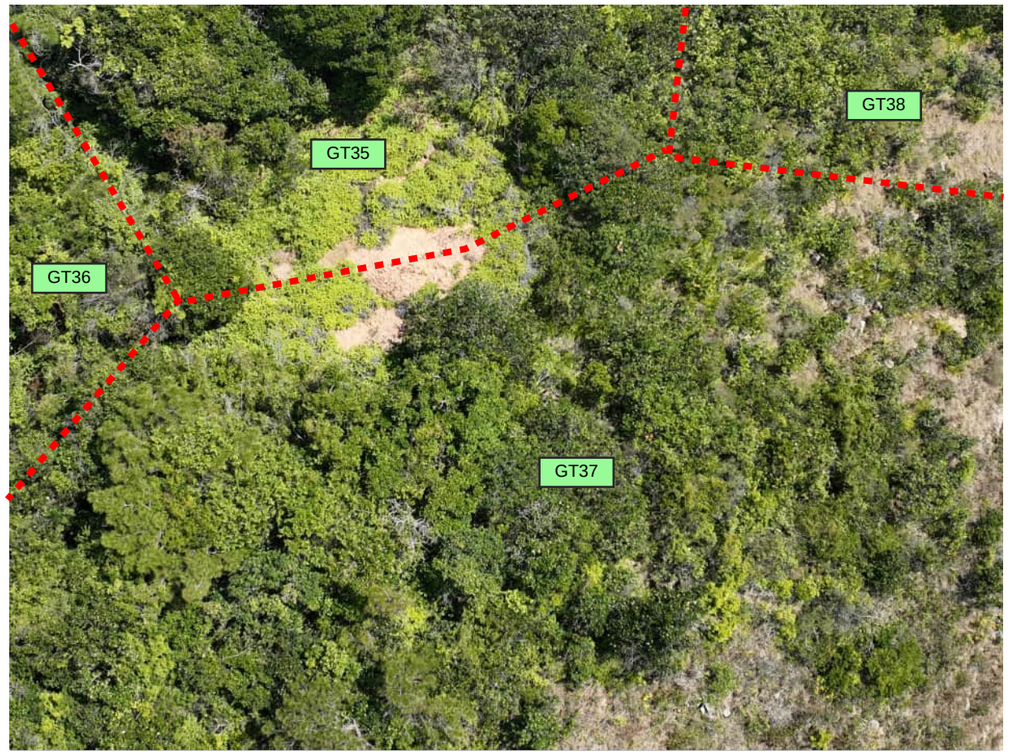

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PHOTO OF GT35, 36, 37&38 (2)

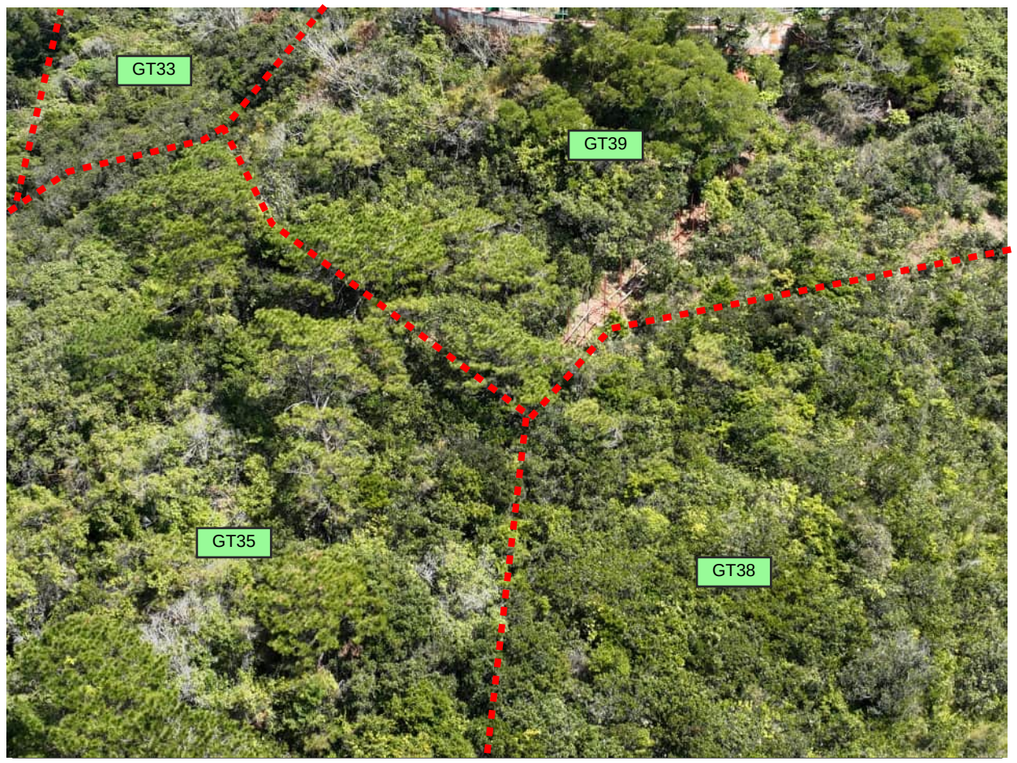

PHOTO OF GT33, 35, 38&39 (1)

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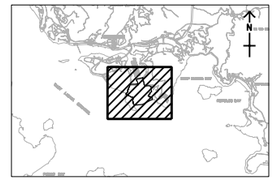
SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖: A3 1 : 200000



PROJECT NO. 項目編號: 60684361

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SHEET TITLE
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APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 14

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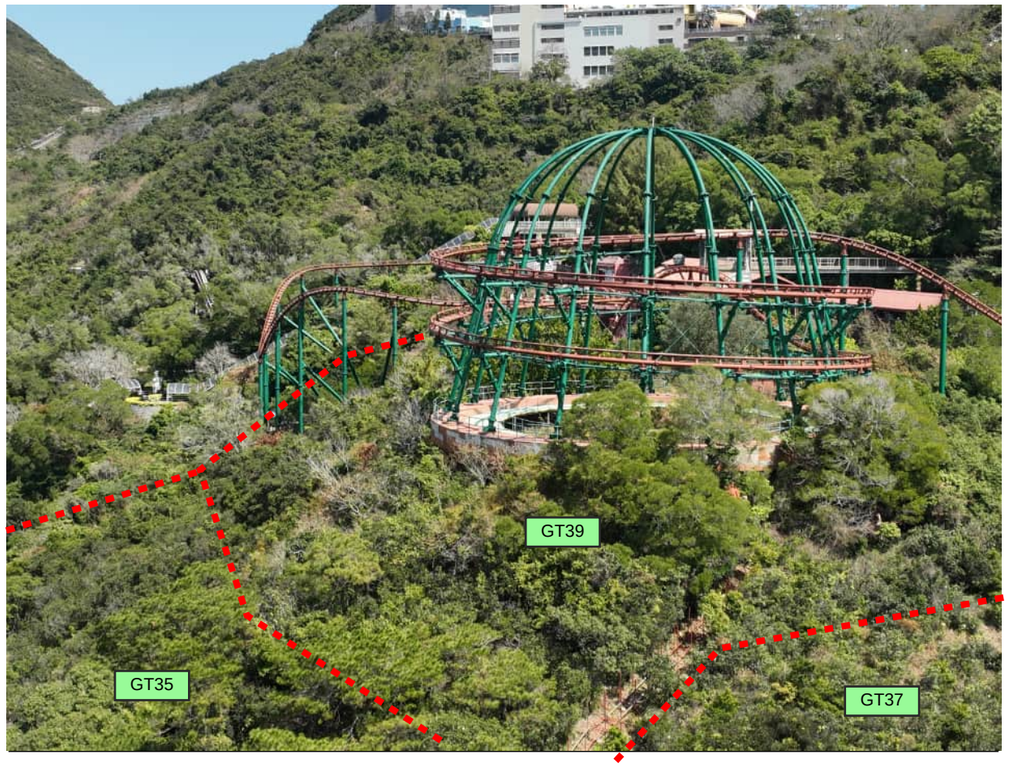

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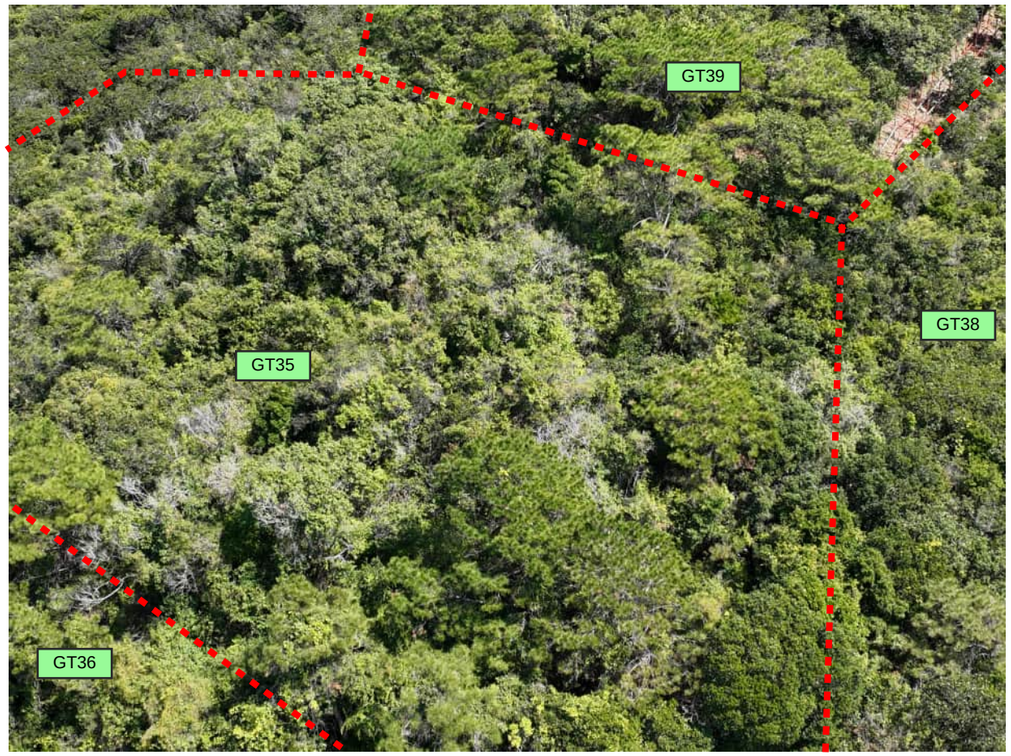

PHOTO OF GT33, 34, 35, 36, 38&39 (1)



PHOTO OF GT35, 36&37 (1)

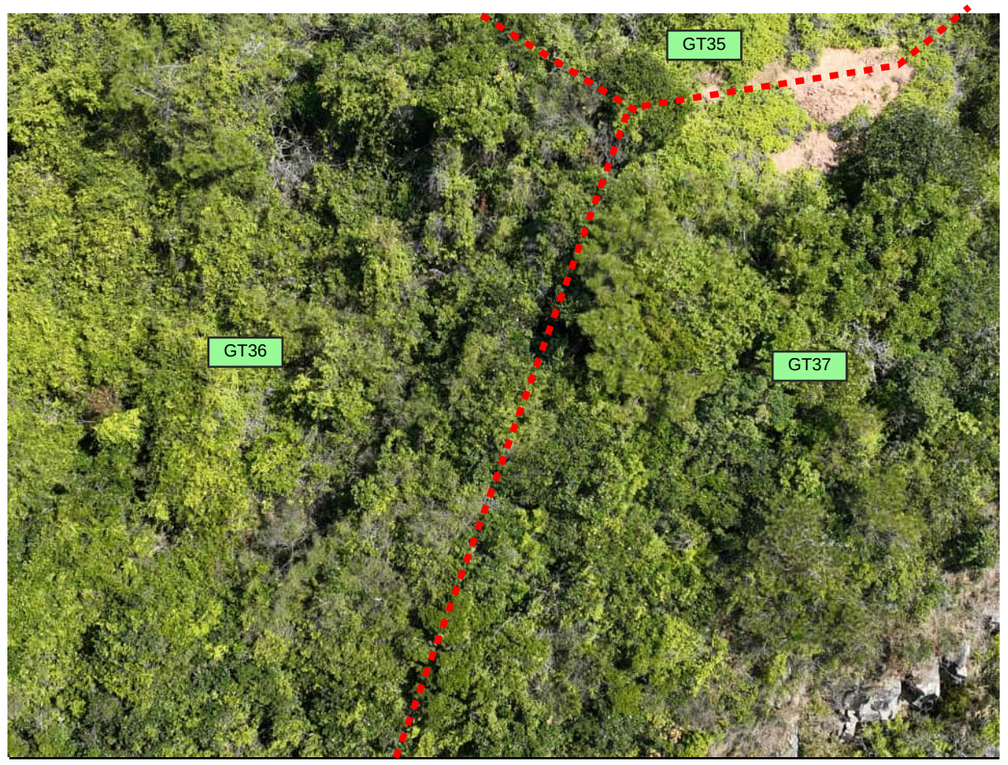

PHOTO OF GT35, 36&37 (2)

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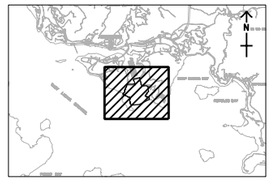
KEY PLAN 索引圖: A3 1 : 200000



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圖紙名稱

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SHEET NUMBER
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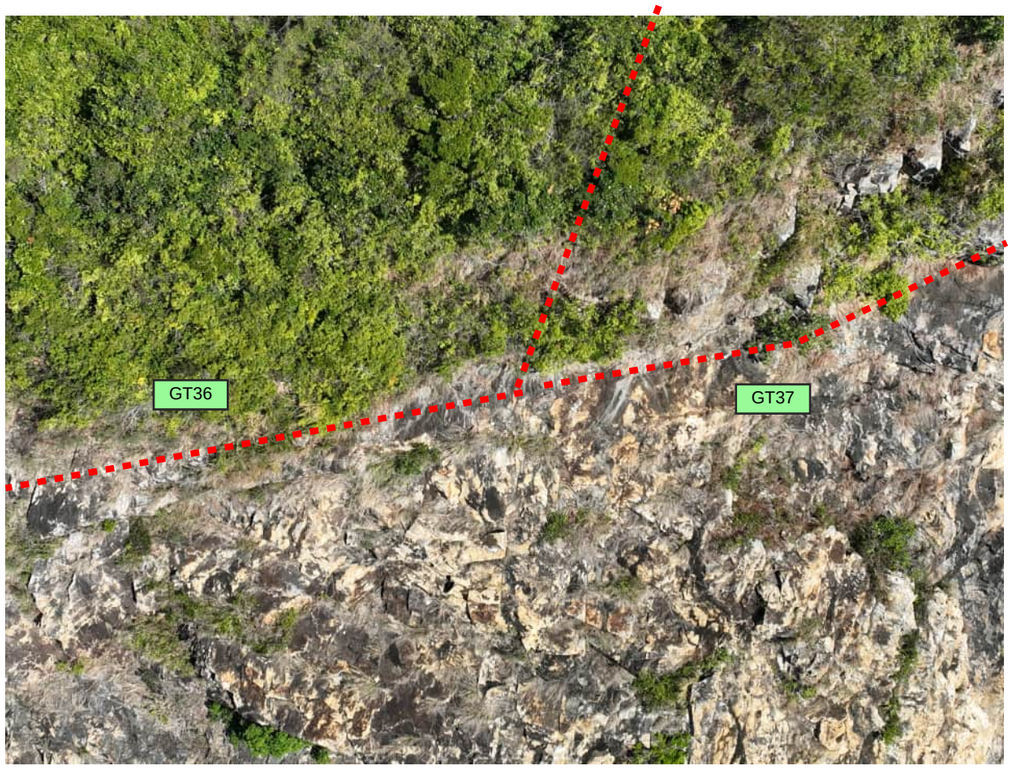

PHOTO OF GT36&37 (1)



PHOTO OF GT36 (1)

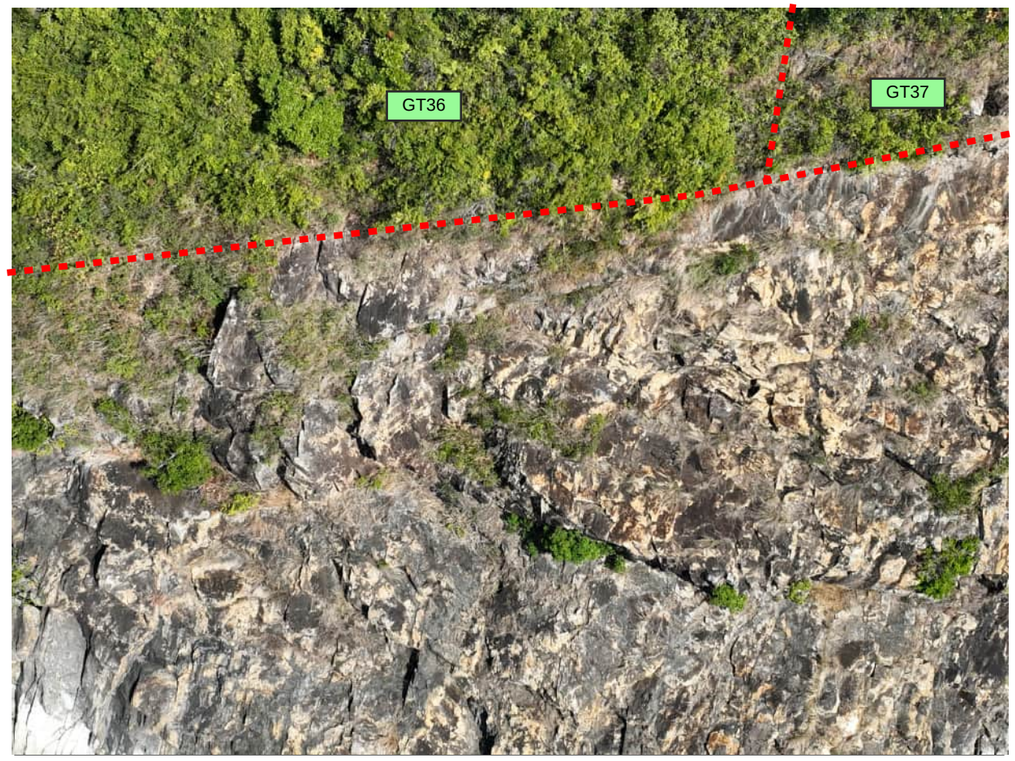

PHOTO OF GT36&37 (2)

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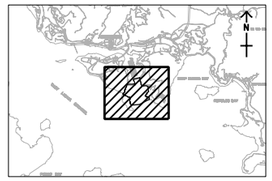
STATUS
階段

SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 16

SHEET NUMBER
圖紙編號

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

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Plot File by: GaoT1 2025/2/20
PATH P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_105.dgn



PHOTO OF GT36&37 (3)



PHOTO OF GT36&37 (4)

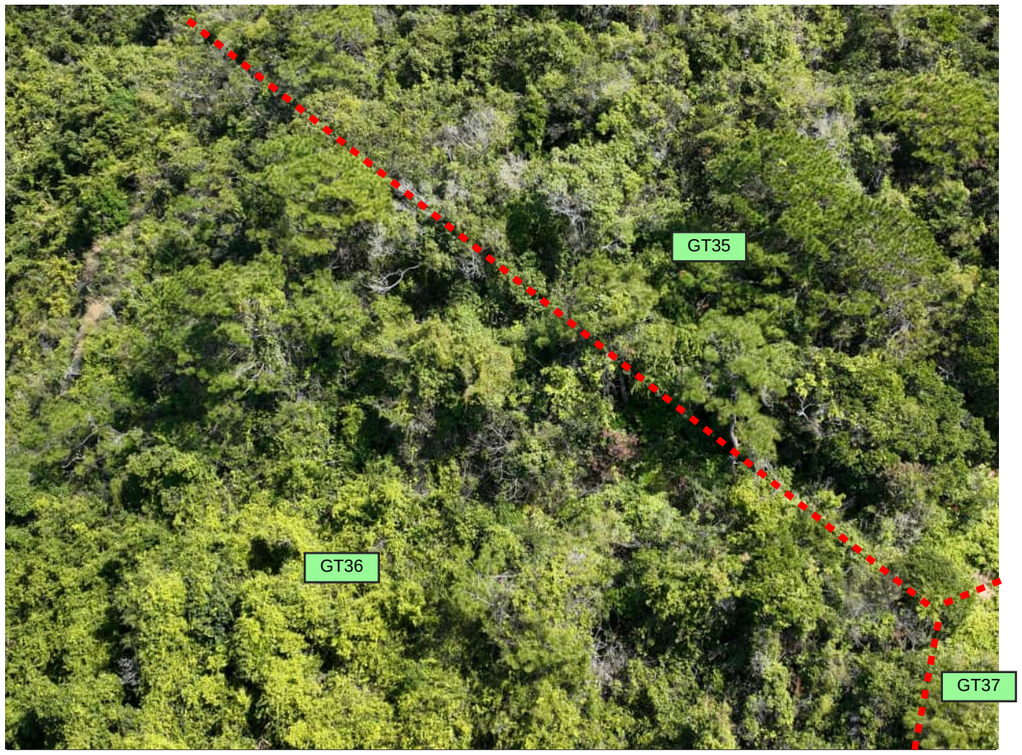

PHOTO OF GT35, 36&37 (2)

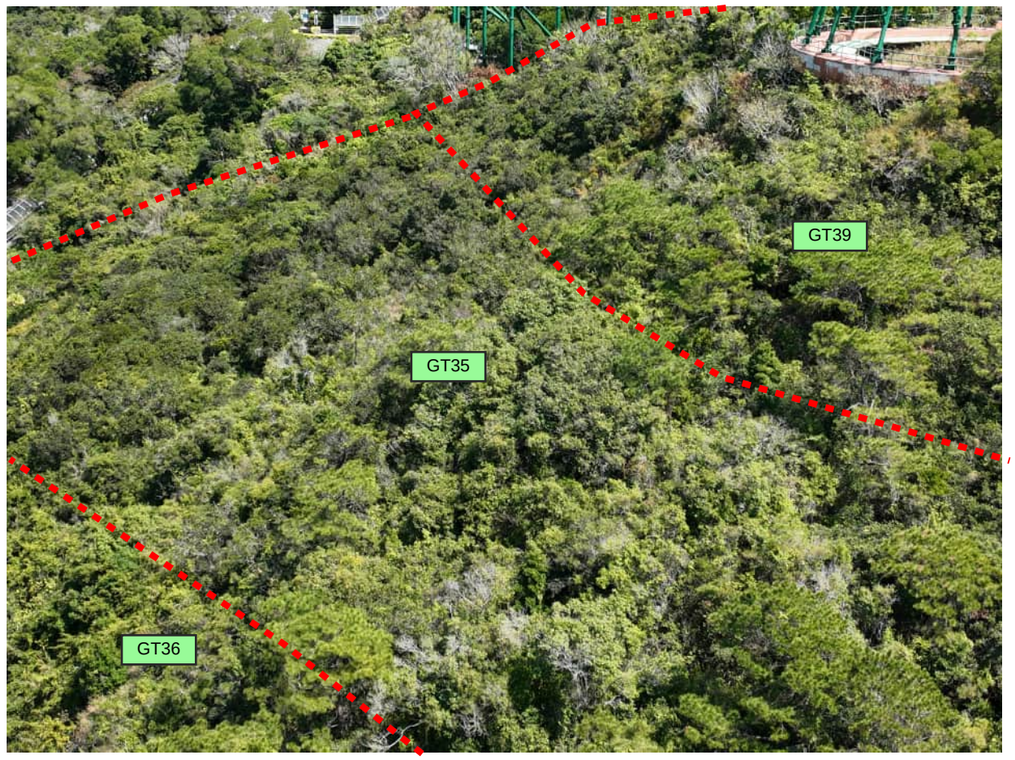

PHOTO OF GT35, 36&39 (1)

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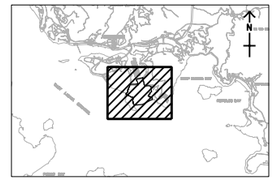
SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 17

SHEET NUMBER
圖紙編號

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

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PATH: P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_105.dgn

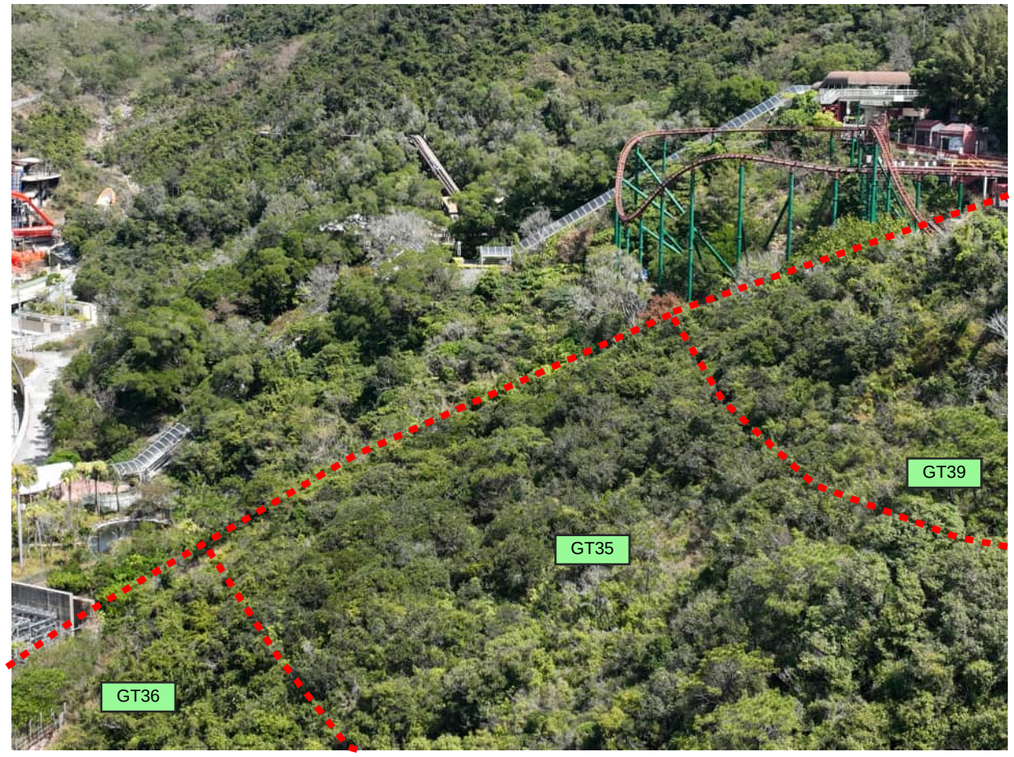

PHOTO OF GT35, 36&39 (2)



PHOTO OF GT35, 36&39 (3)



PHOTO OF GT35&36 (1)



PHOTO OF GT36 (2)

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:

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階段

SCALE
比例

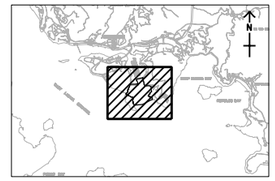
A3 1 : 6000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

A3 1 : 200000



PROJECT NO.
項目編號

60684361

CONTRACT NO.
合約編號

CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 18

SHEET NUMBER
圖紙編號

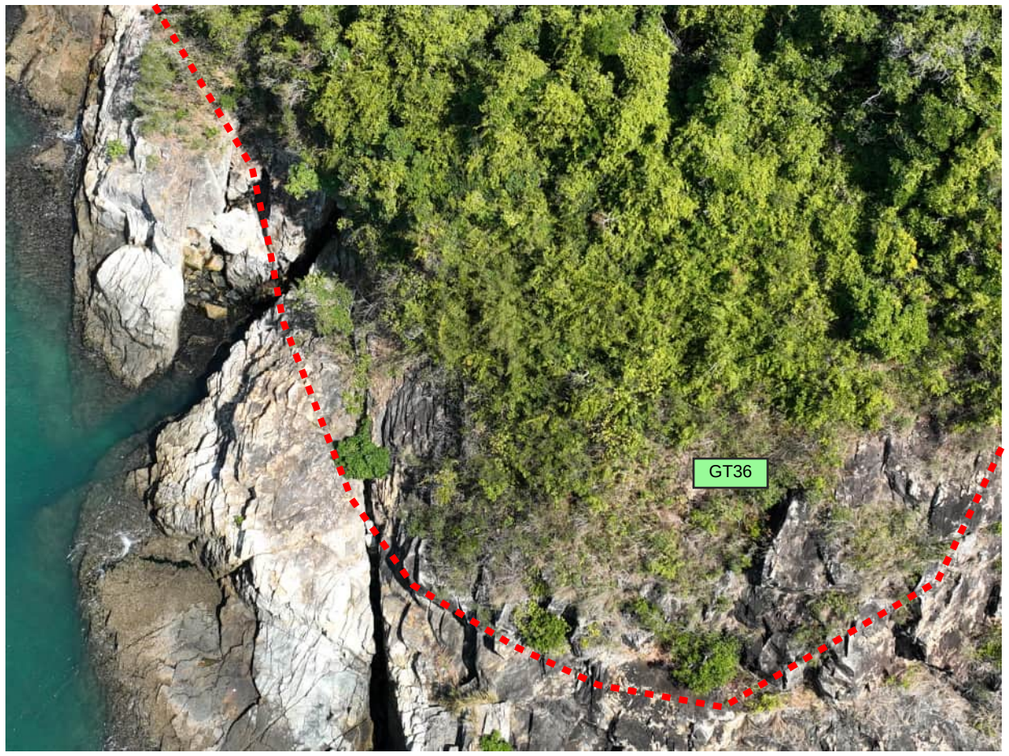


PHOTO OF GT36 (3)



PHOTO OF GT36 (4)



PHOTO OF GT35, 36&37 (2)



PHOTO OF GT35, 36&37 (3)

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

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SCALE
比例

A3 1 : 6000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

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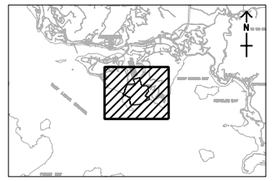

PROJECT NO.
項目編號

60684361

CONTRACT NO.
合約編號

CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 19

SHEET NUMBER
圖紙編號

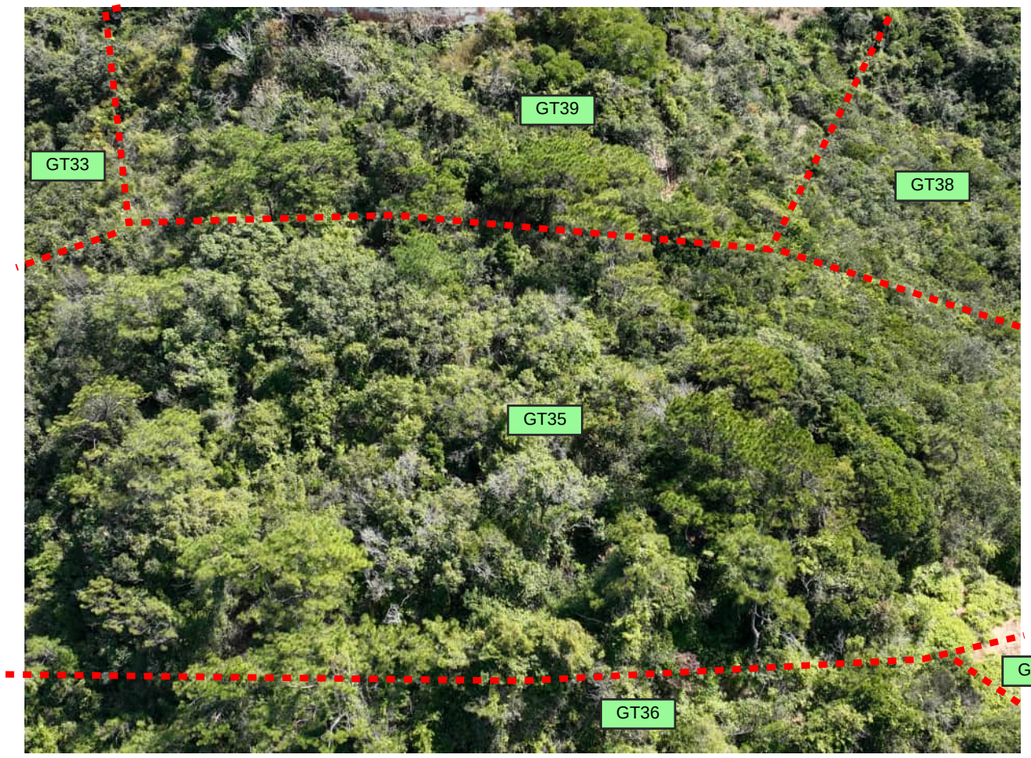

PHOTO OF GT33, 35, 36, 38&39 (1)

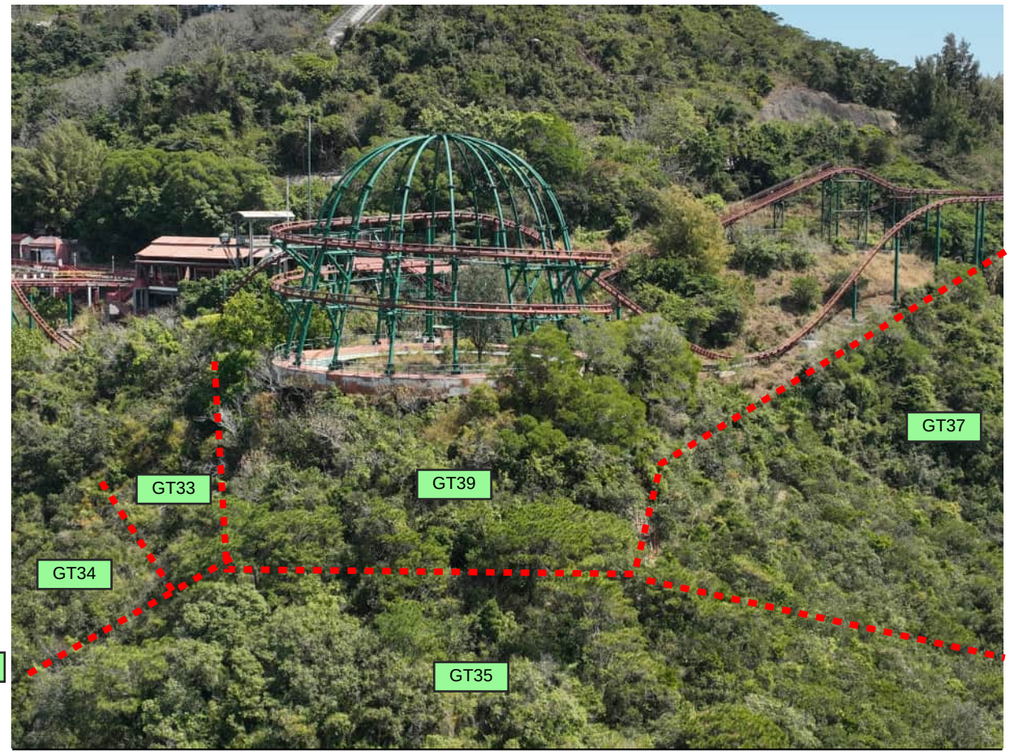

PHOTO OF GT33, 34, 35, 37&39 (1)

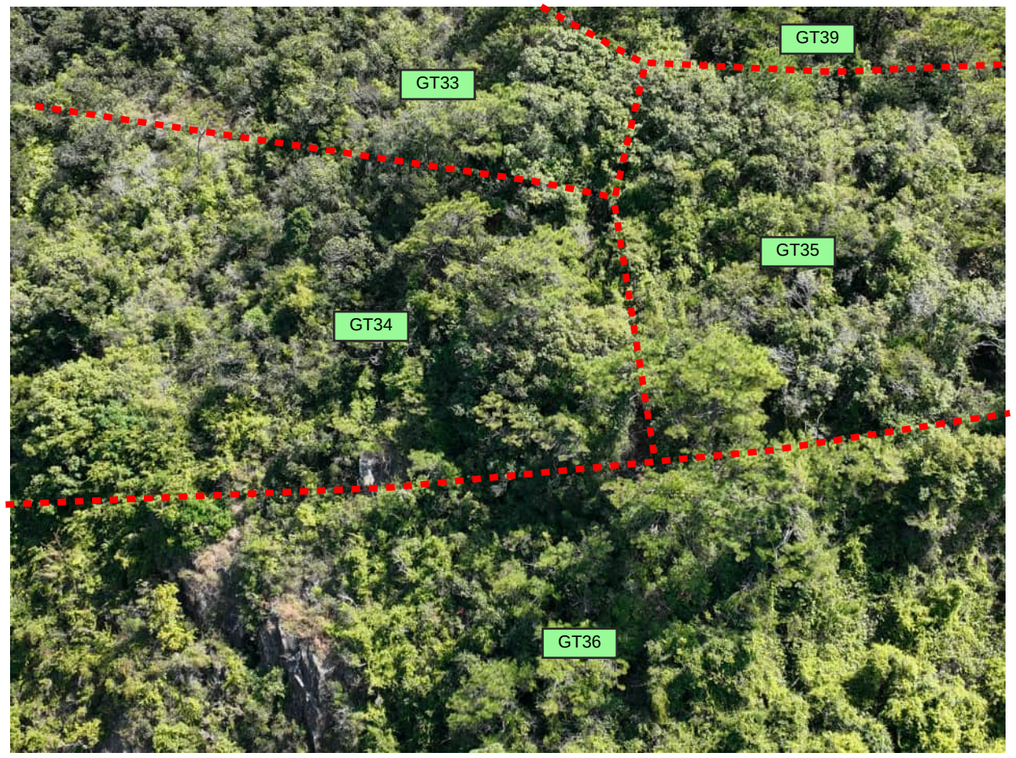

PHOTO OF GT33, 34, 35, 36&39 (1)

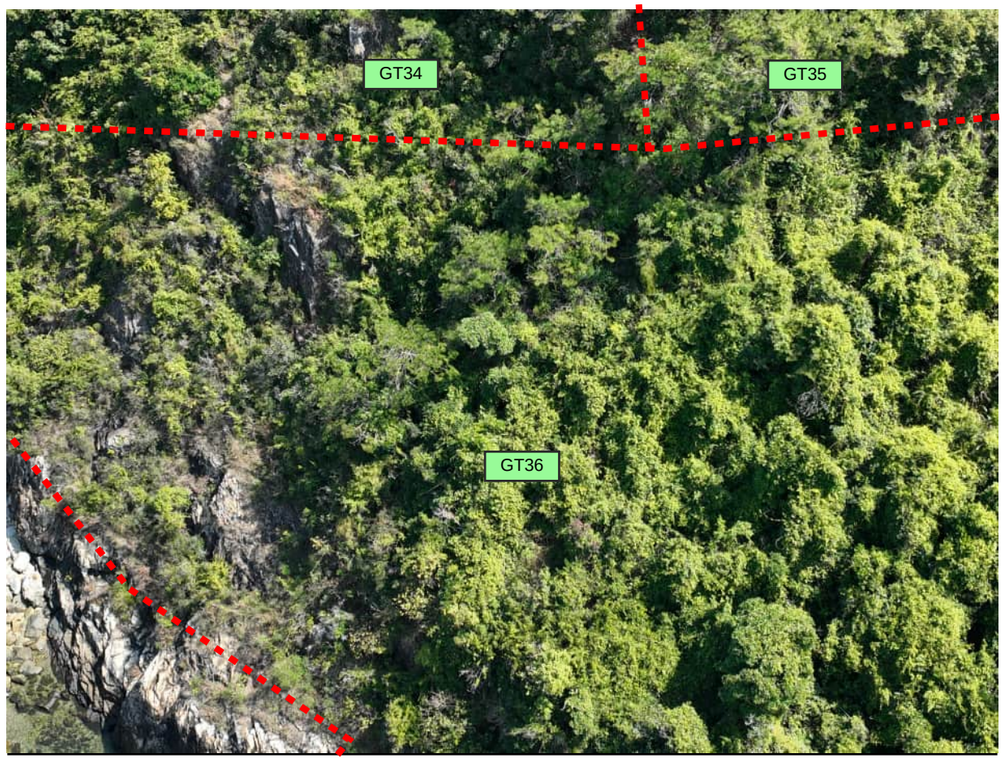

PHOTO OF GT34, 35&36 (1)

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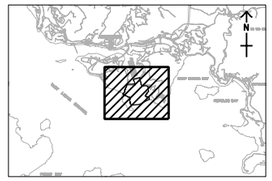
SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361

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SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 20

SHEET NUMBER
圖紙編號

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:

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2025/2/20
PATH: P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_105.dgn



PHOTO OF GT36 (5)



PHOTO OF GT36 (6)

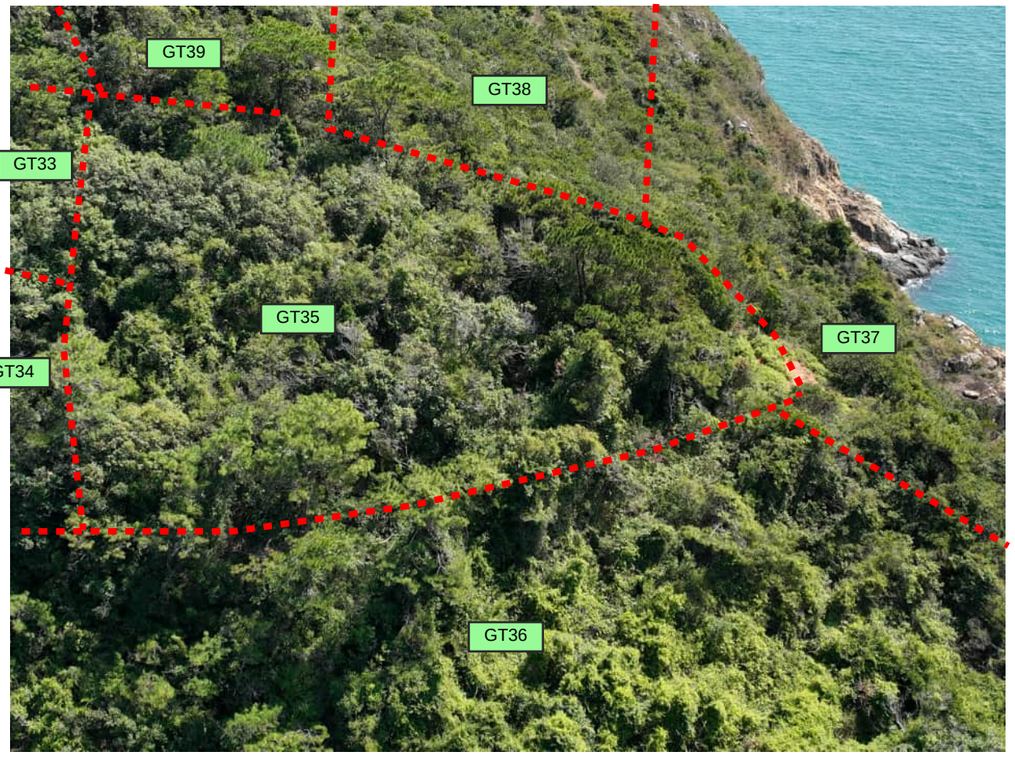

PHOTO OF GT33, 34, 35, 37,38&39 (1)

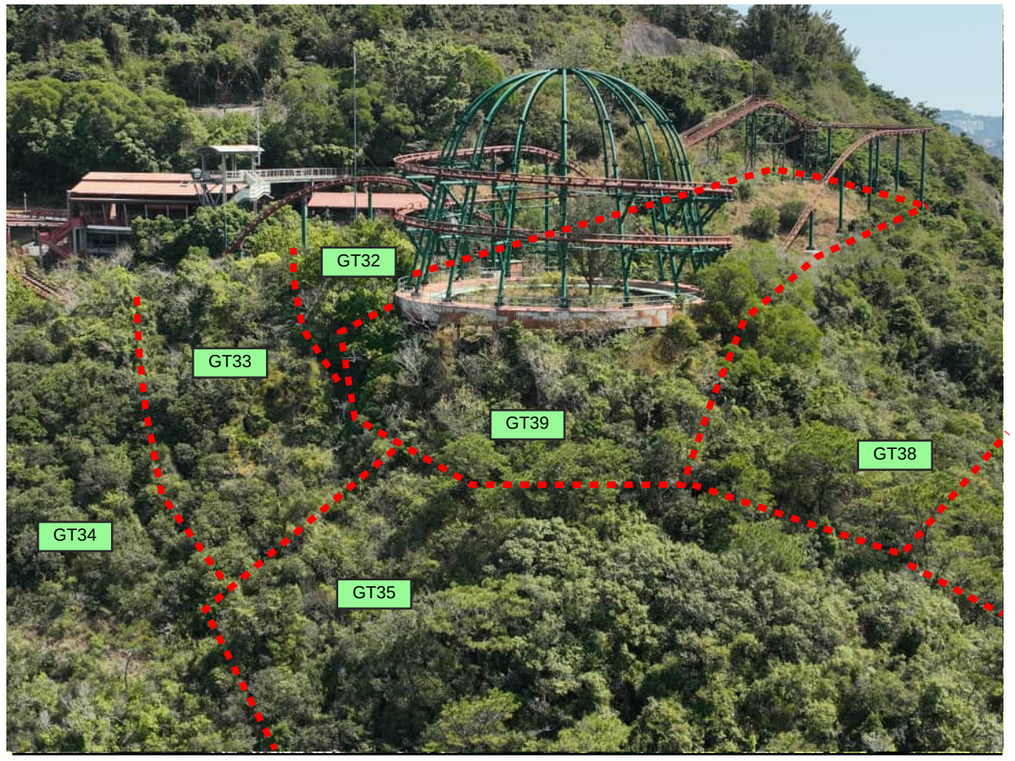

PHOTO OF GT32, 33, 34, 35, 38, 39 (1)

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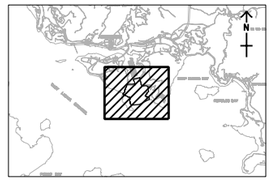
階段

SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 21

SHEET NUMBER
圖紙編號

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

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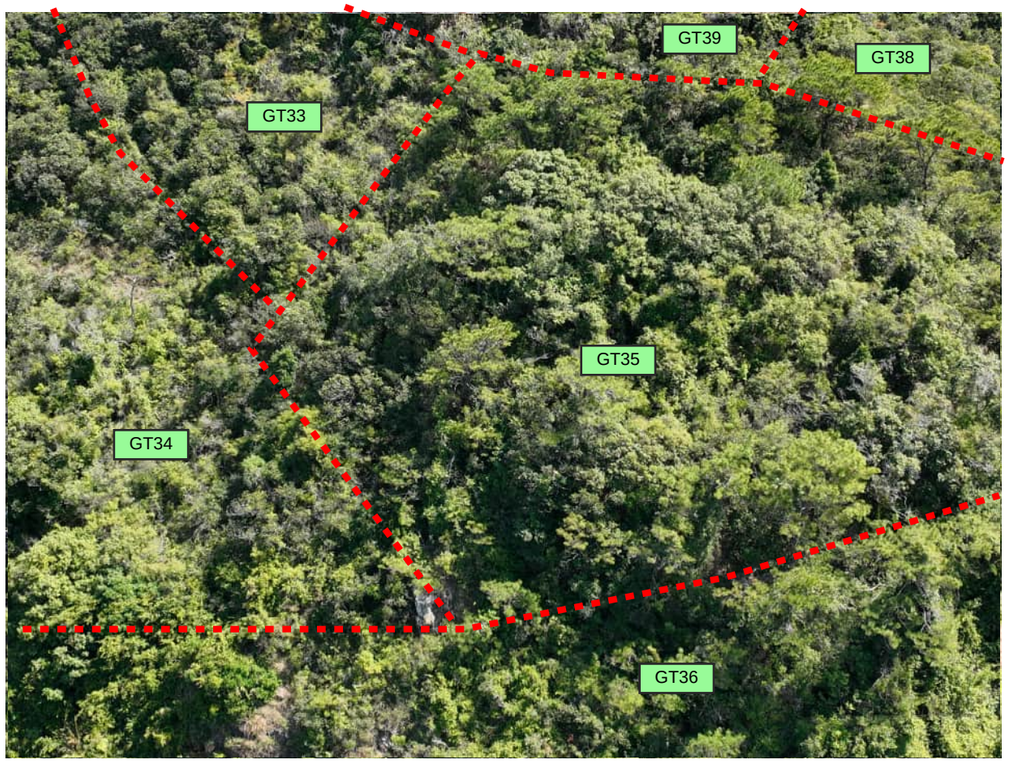

PHOTO OF GT33, 34, 35, 38&39 (5)

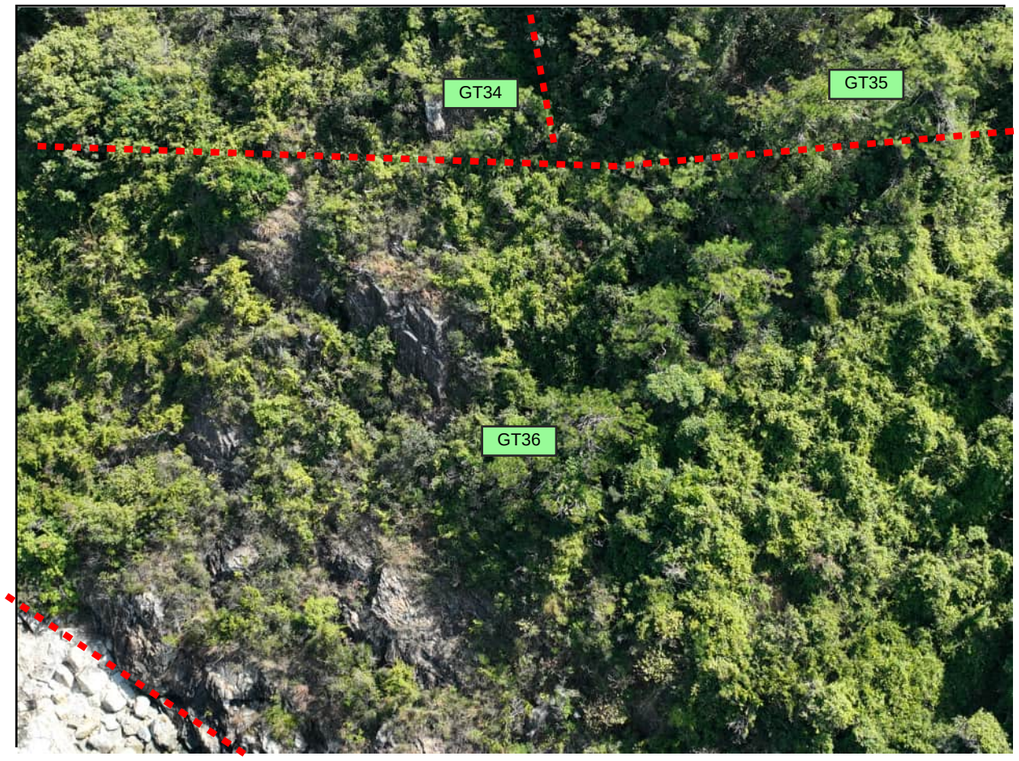

PHOTO OF GT34, GT35&36 (1)

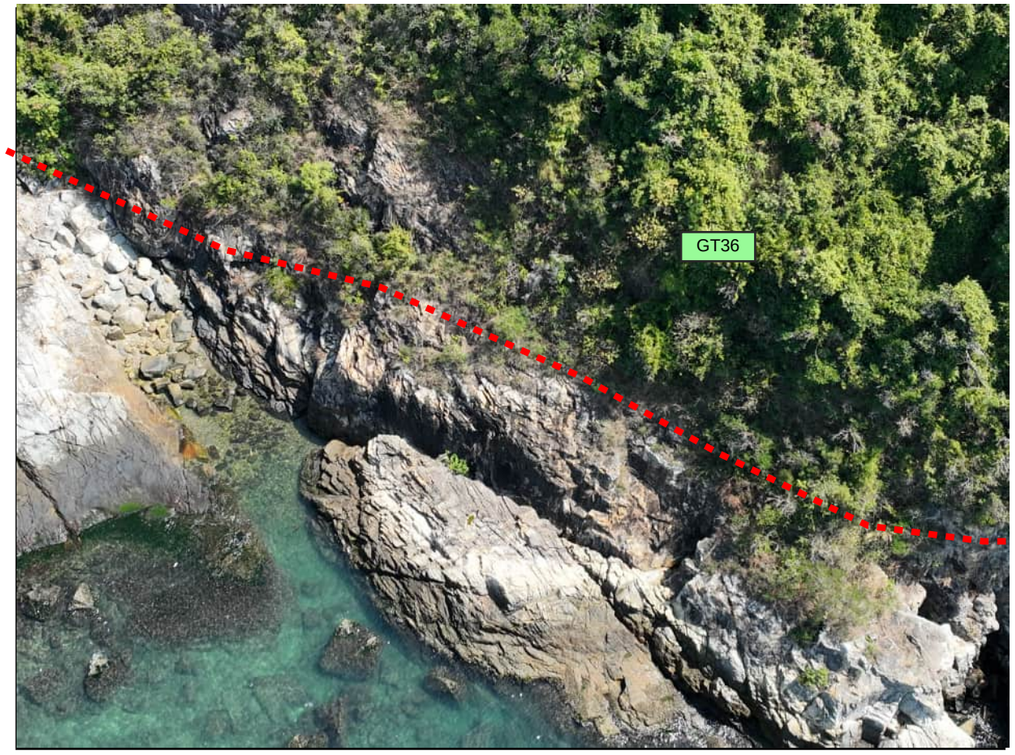

PHOTO OF GT36 (7)

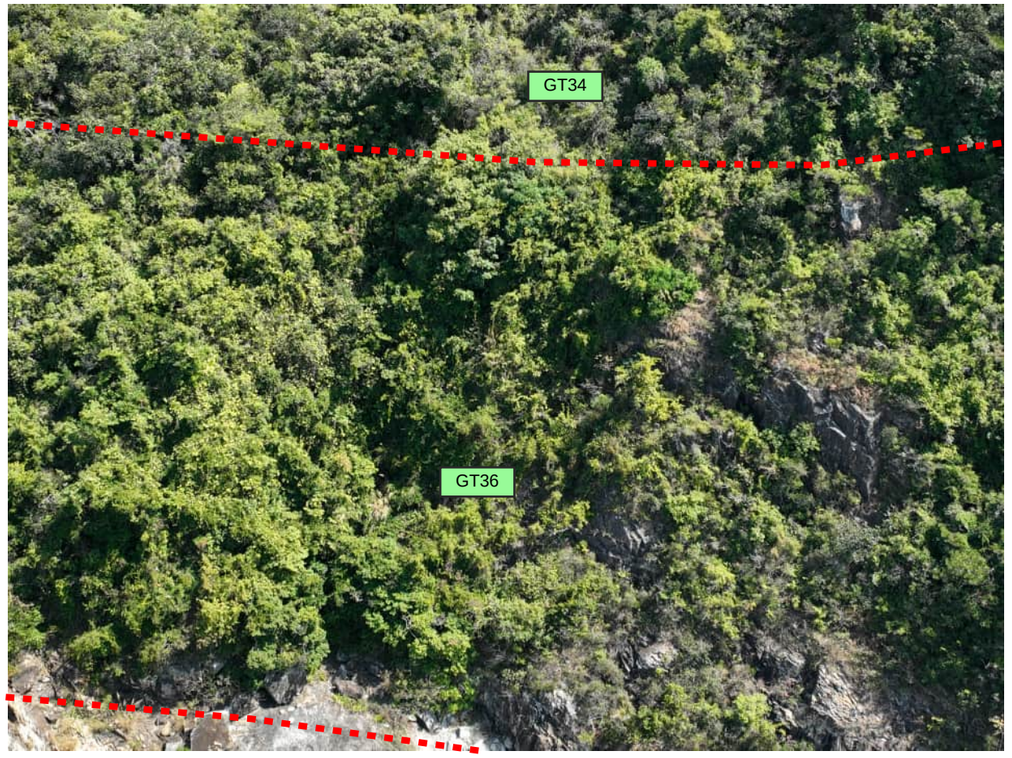

PHOTO OF GT36&34 (1)

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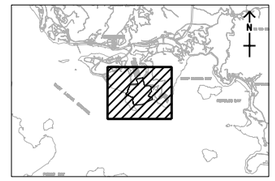
階段

SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖: A3 1 : 200000



PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 22

SHEET NUMBER
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Checked:
Designer:
Project Management Initials:

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Plot File by: GaoT1 2025/2/20
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Approved:
Checked:
Designer:
Project Management Initials:

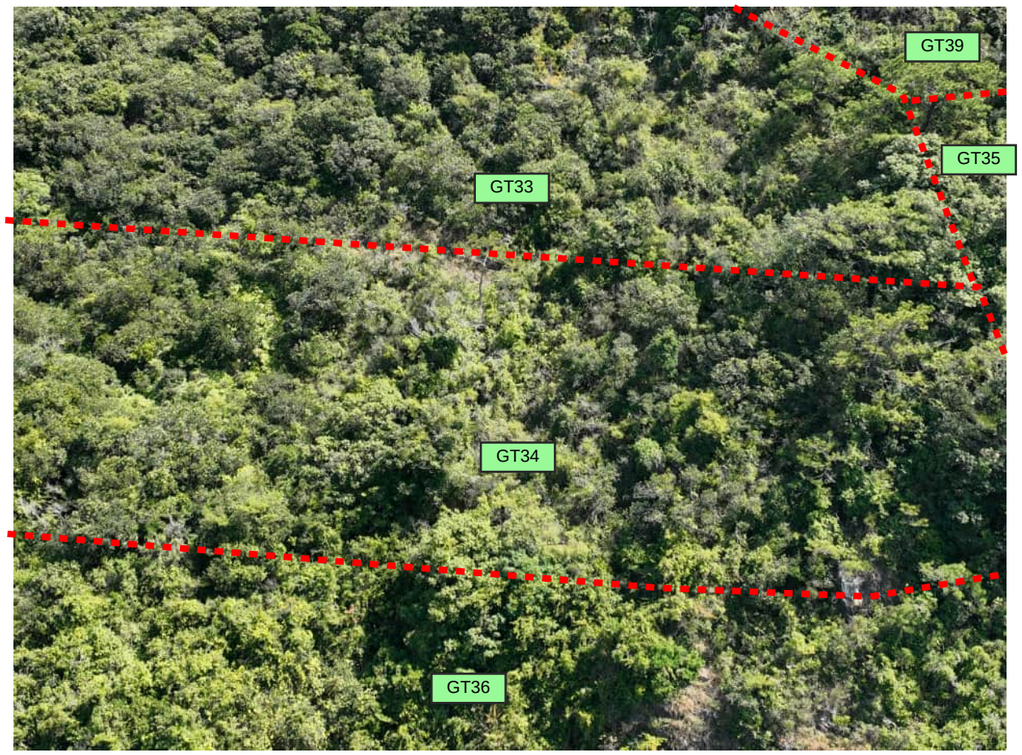

PHOTO OF GT33, 34, 35, 36&39 (1)

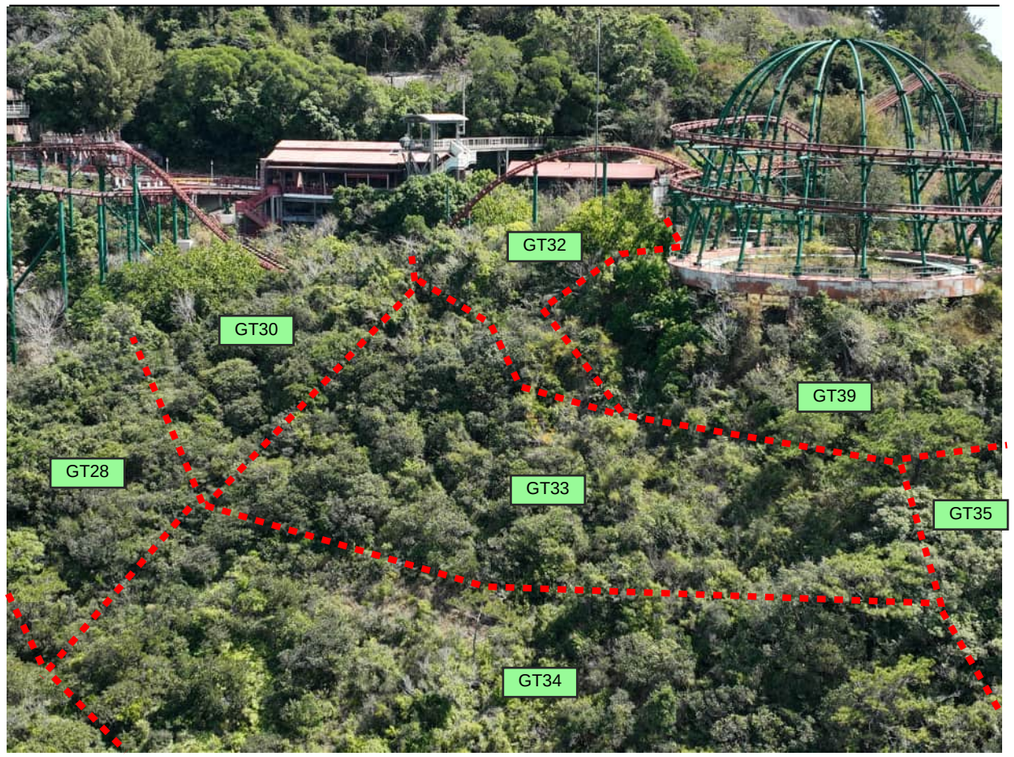

PHOTO OF GT28, 30, 32, 33, 35&39 (1)



PHOTO OF GT27 & 36

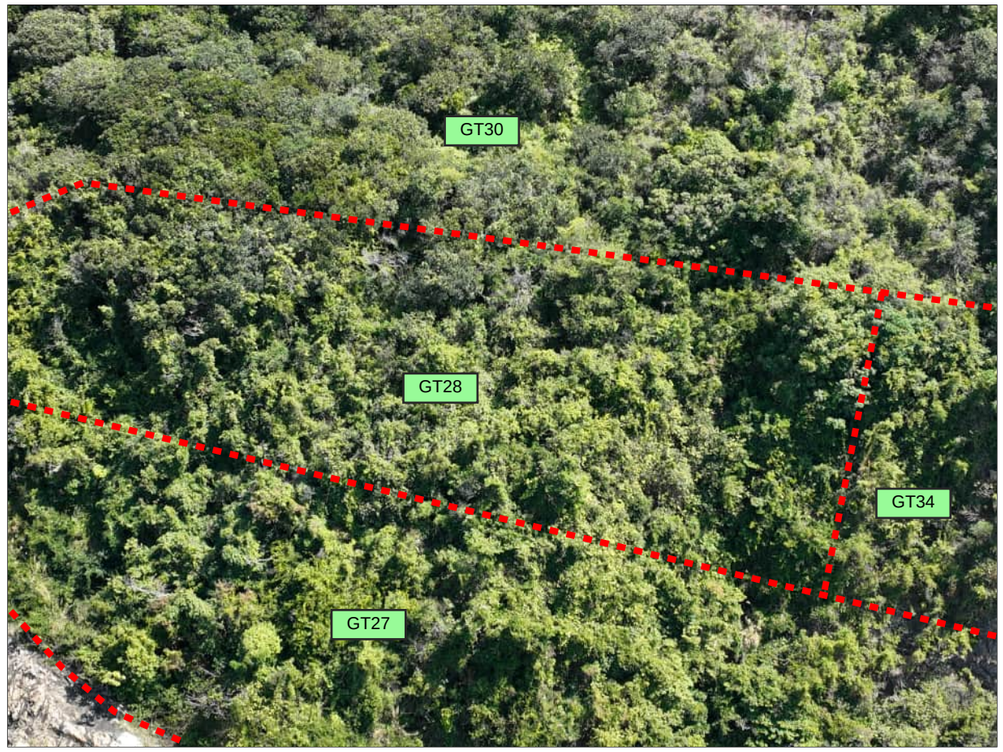

PHOTO OF GT27, 28, 29, 30 & 34

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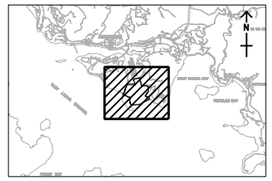
SCALE 比例: A3 1 : 6000
DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361
CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 23

SHEET NUMBER
圖紙編號

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Plot File by: Gao11
PATH: P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_105.dgn
20252/2/20

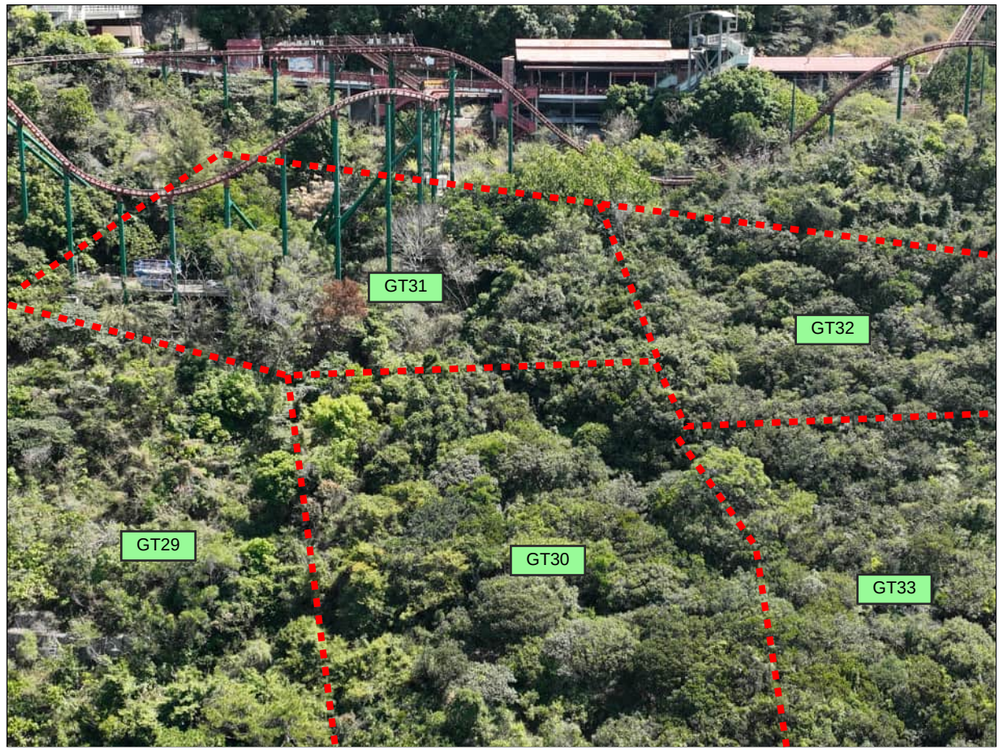

PHOTO OF GT29, 30, 31, 32 & 33

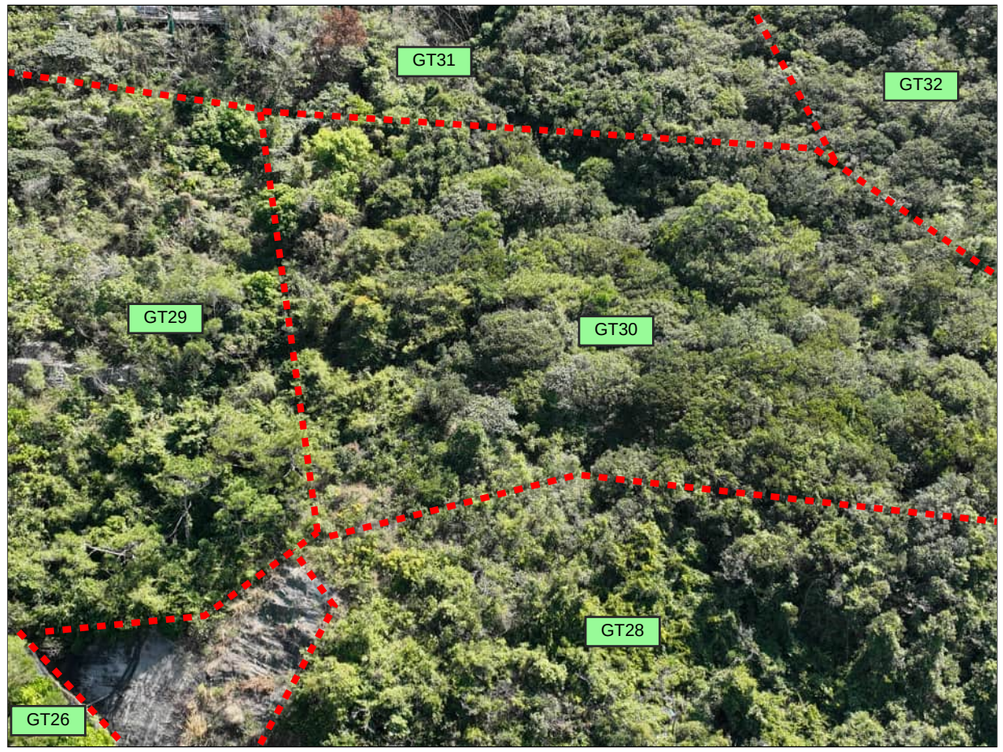

PHOTO OF GT26, 28, 29, 30, 31 & 32

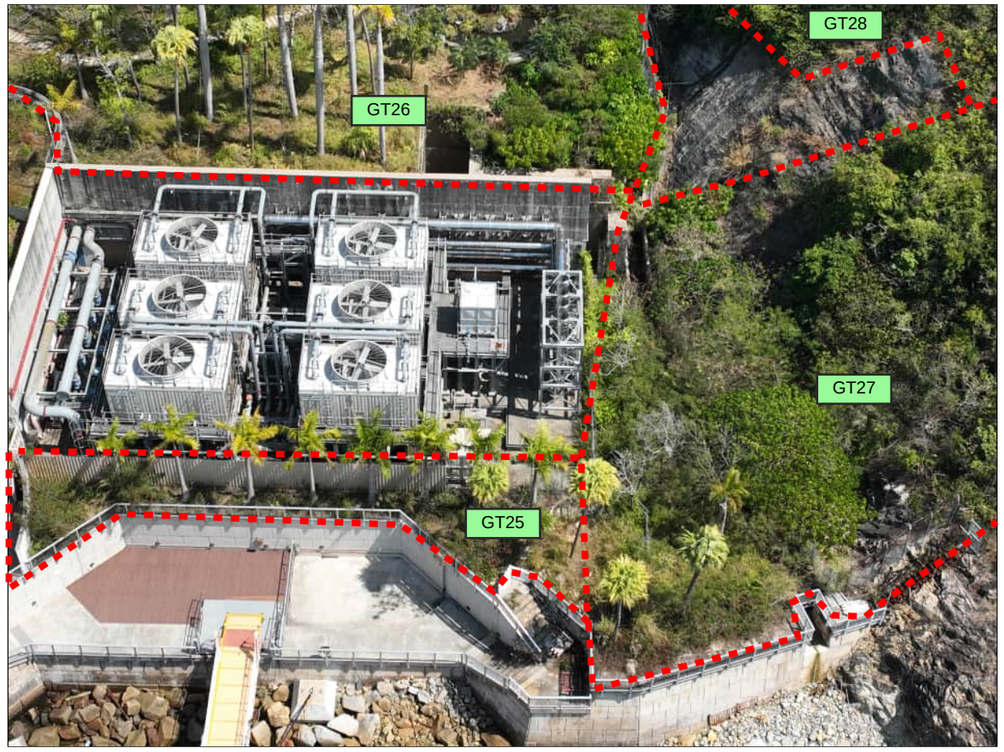

PHOTO OF GT25, 26, 27 & 28

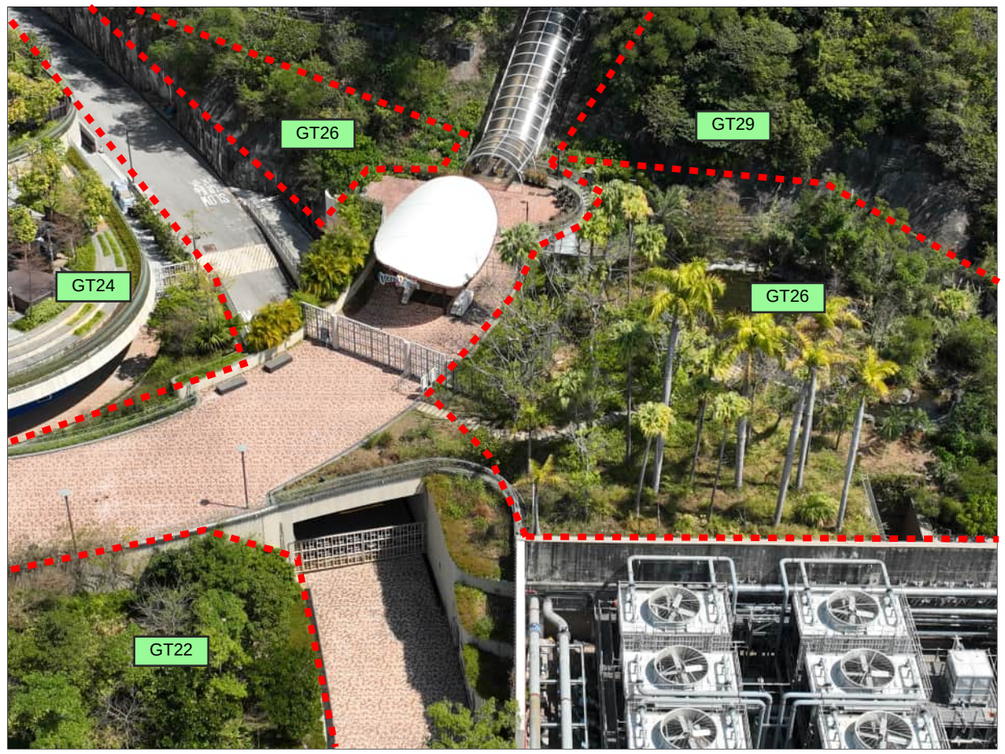

PHOTO OF GT22, 24, 26 & 29

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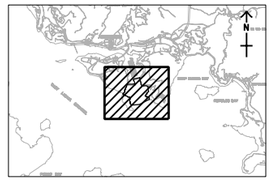
STATUS
階段

SCALE 比例
A3 1 : 6000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號
60684361

CONTRACT NO. 合約編號
CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 24

SHEET NUMBER
圖紙編號

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:

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Plot File by: GaoT1
2025/2/20
PATH: P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_105.dgn



PHOTO OF GT22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32 & 34



PHOTO OF GT22, 23, 24, 25 & 26

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STATUS
階段

SCALE
比例

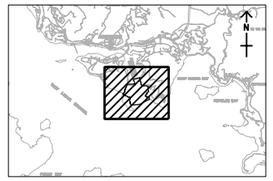
A3 1 : 6000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

A3 1 : 200000



PROJECT NO.
項目編號

60684361

CONTRACT NO.
合約編號

CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 25

SHEET NUMBER
圖紙編號

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:

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Plot File by: GaoT1
20/5/2/20
PATH: P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_105.dgn

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:



PHOTO OF GT45



PHOTO OF GT45 & 46 (1)

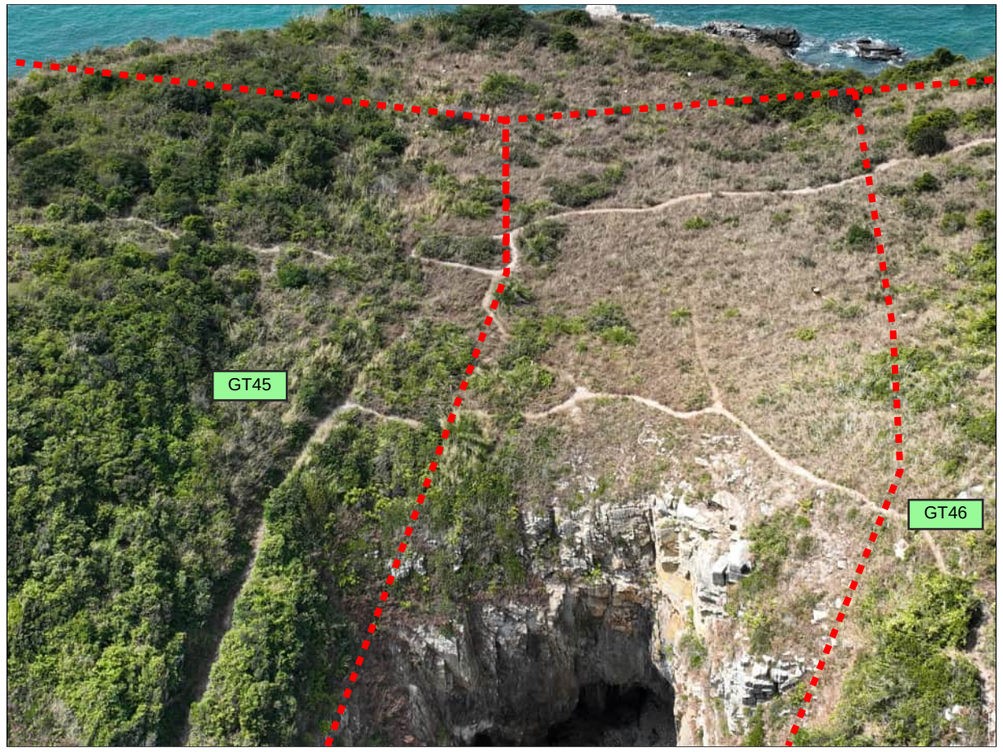

PHOTO OF GT45 & 46 (2)



PHOTO OF GT46 (1)

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Plot File by: GaoT1
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PATH: P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_105.dgn

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階段

SCALE
比例

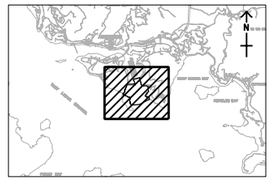
A3 1 : 6000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

A3 1 : 200000



PROJECT NO.
項目編號

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CONTRACT NO.
合約編號

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SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 26

SHEET NUMBER
圖紙編號

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PHOTO OF GT46 (2)



PHOTO OF GT46 (3)



PHOTO OF GT46 & 47



PHOTO OF GT47,51 & 52

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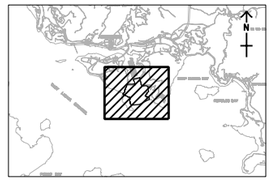
階段

SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
紙張名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 27

SHEET NUMBER
圖紙編號

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

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Plot File by: Gao11
PATH: P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_105.dgn
20252/2/20



PHOTO OF GT47 & 51



PHOTO OF GT51 & 52



PHOTO OF GT47 & 48

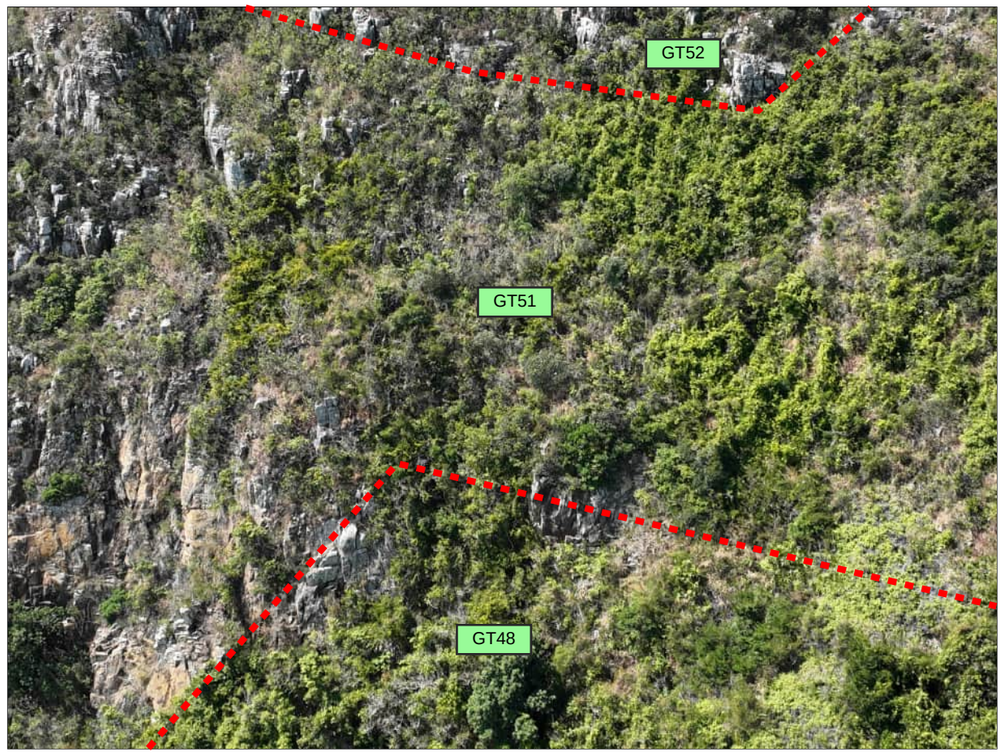

PHOTO OF GT48, 51 & 52

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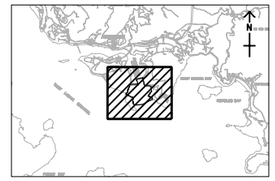
SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖: A3 1 : 200000



PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 28

SHEET NUMBER
圖紙編號

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Approved:
Checked:
Designer:
Project Management Initials:

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Plot File by: GaoT1 2025/2/20
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PHOTO OF GT48 & 51



PHOTO OF GT48, 50, 51 & 52

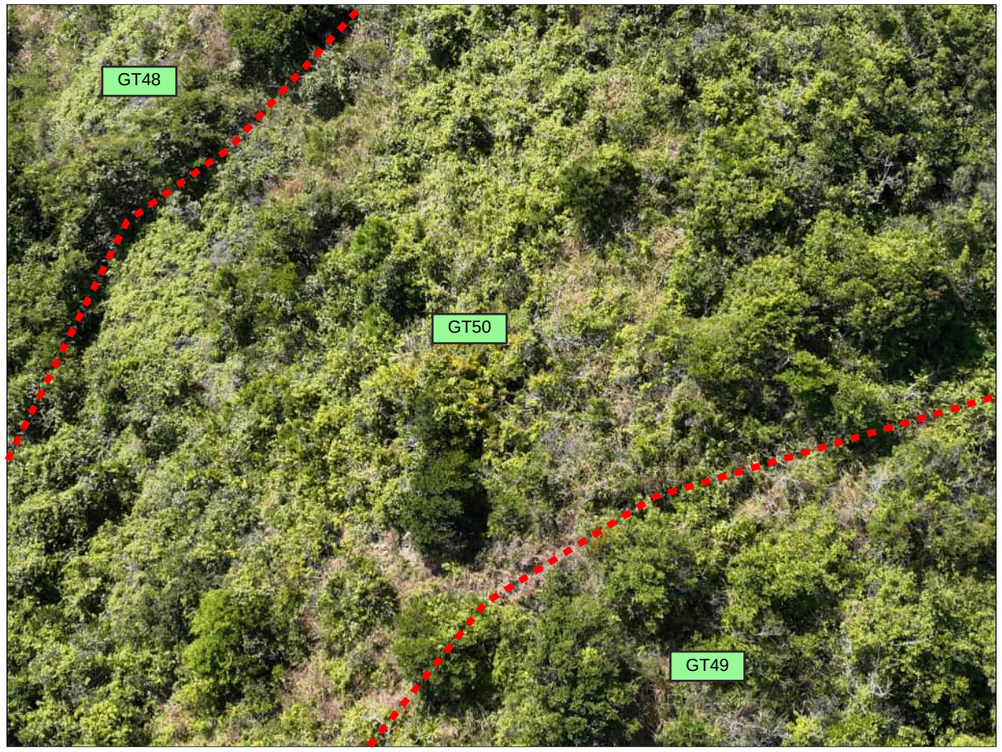

PHOTO OF GT48, 49 & 50



PHOTO OF GT49 (1)

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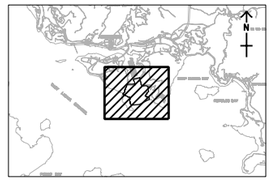
階段

SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 29

SHEET NUMBER
圖紙編號

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

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Plot File by: GaoT1 2025/2/20
PATH: P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_105.dgn



PHOTO OF GT49 (2)



PHOTO OF GT49 & 53 (2)



PHOTO OF GT52 & 53

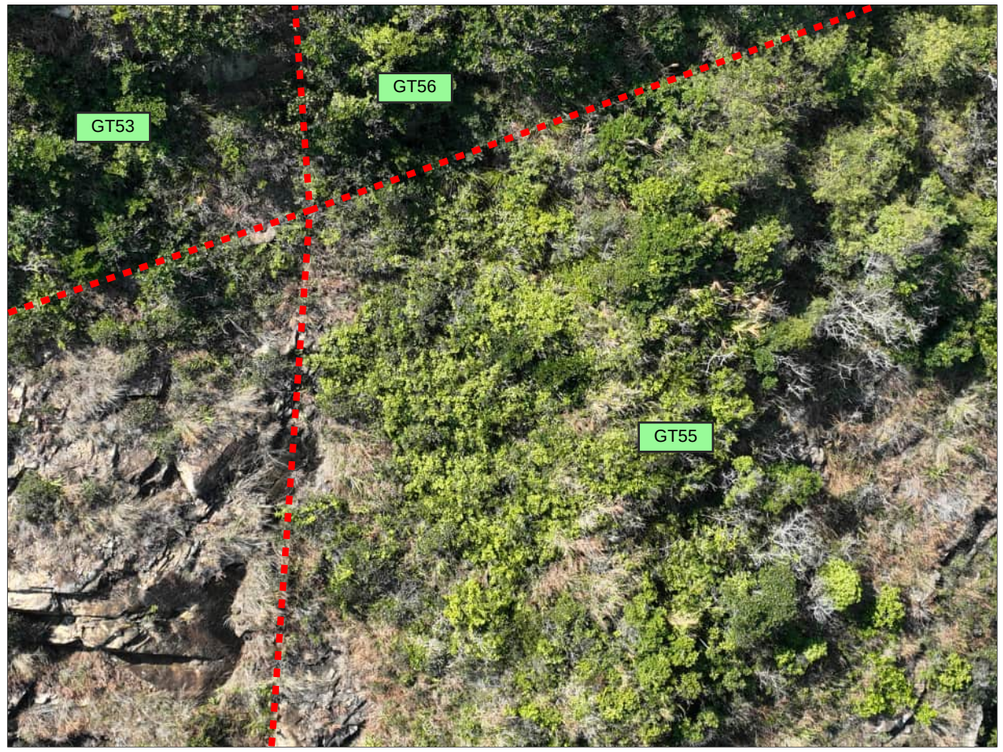

PHOTO OF GT53, 55 & 56

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

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Plot File by: Gao11
PATH: P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_105.dgn
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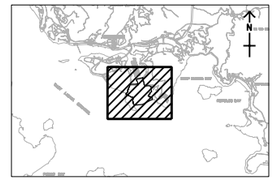
階段

SCALE 比例	DIMENSION UNIT 尺寸單位
A3 1 : 6000	METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號	CONTRACT NO. 合約編號
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SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 30

SHEET NUMBER
圖紙編號



PHOTO OF GT55 & 56



PHOTO OF GT52, 56 & 57



PHOTO OF GT52, 56 & 57



PHOTO OF GT55, 56, 58 & 59

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STATUS
階段

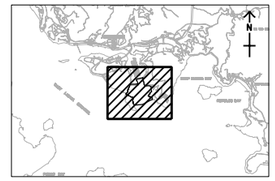
SCALE
比例

A3 1 : 6000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖 A3 1 : 200000



PROJECT NO.
項目編號

60684361

CONTRACT NO.
合約編號

CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 31

SHEET NUMBER
圖紙編號

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Checked:
Designer:
Project Management Initials:

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Plot File by: GaoT1
2025/2/20
PATH: P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_105.dgn



PHOTO OF GT58 & 59



PHOTO OF GT56, 57 & 58

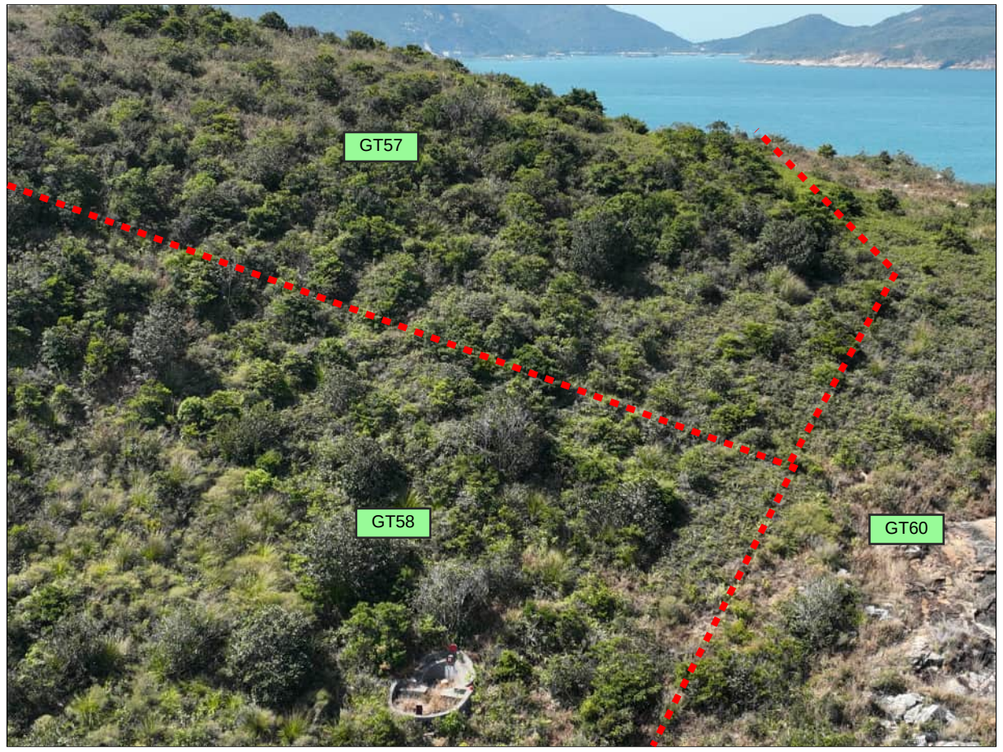

PHOTO OF GT57, 58 & 60

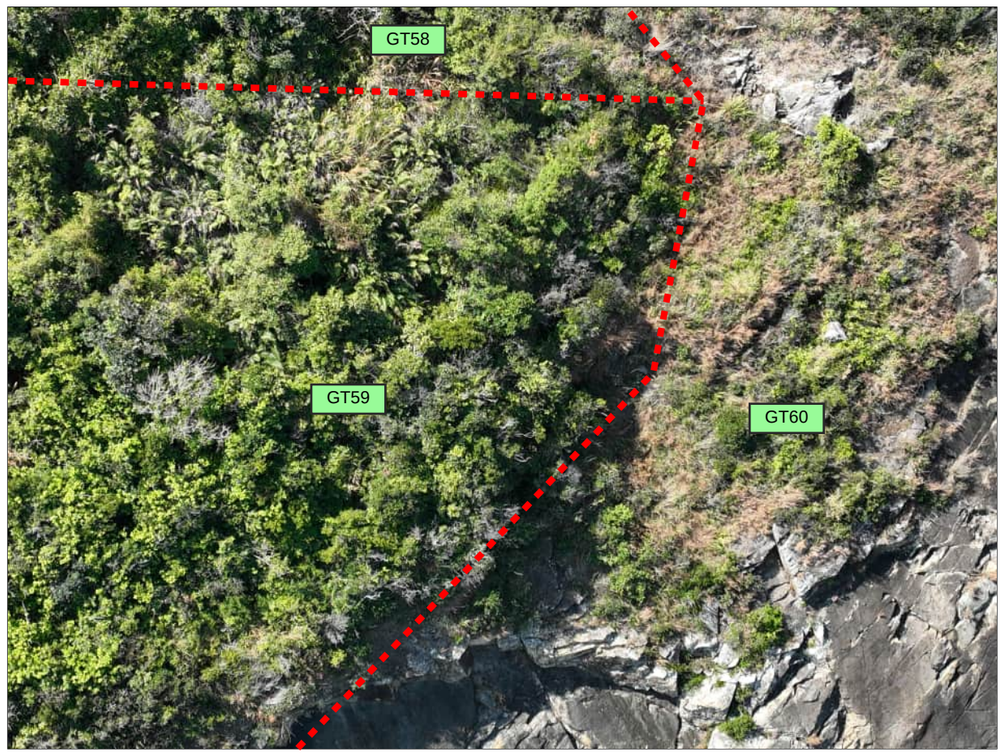

PHOTO OF GT58, 59 & 60

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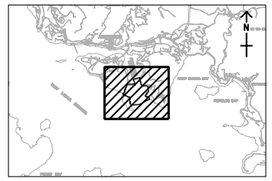
階段

SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



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CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 32

SHEET NUMBER
圖紙編號

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:

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Plot File by: GaoYT
2025/2/20
PATH: P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_105.dgn



PHOTO OF GT57 & 60



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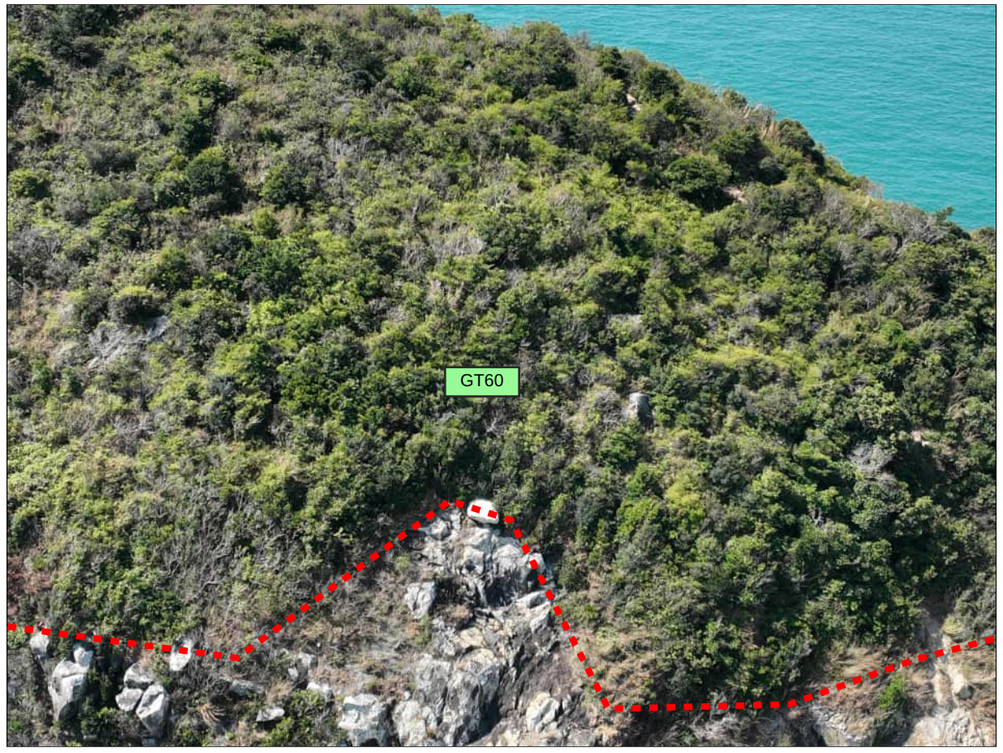

PHOTO OF GT60 (2)



PHOTO OF GT60 (3)

ISO A1 594mm x 841mm

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Checked:

Designer:

Project Management Initials:

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項目

EXPANSION OF ABERDEEN TYPHOON SHELTER - INVESTIGATION, DESIGN AND CONSTRUCTION

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ISSUE/REVISION
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I/R 修訂	DATE 日期	DESCRIPTION 修改簡述	CHK. 核核

STATUS
階段

SCALE
比例

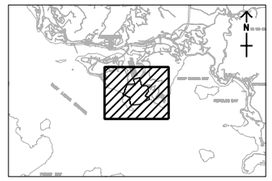
A3 1 : 6000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

A3 1 : 200000



PROJECT NO.
項目編號

60684361

CONTRACT NO.
合約編號

CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 33

SHEET NUMBER
圖紙編號



PHOTO OF GT61

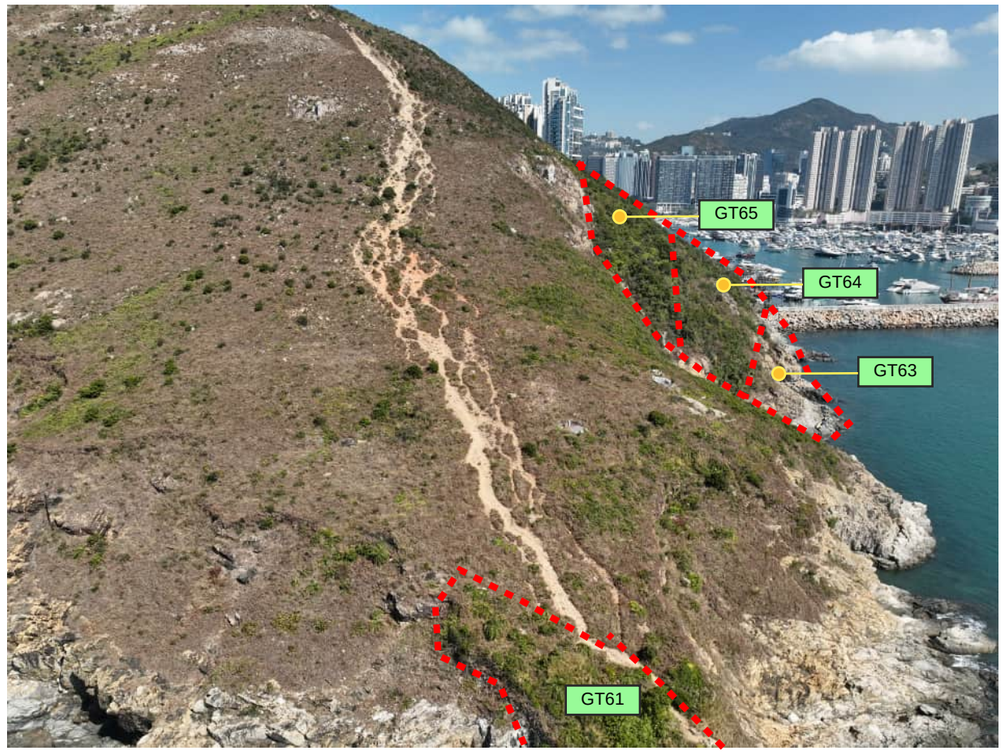


PHOTO OF GT61, 63, 64 & 65

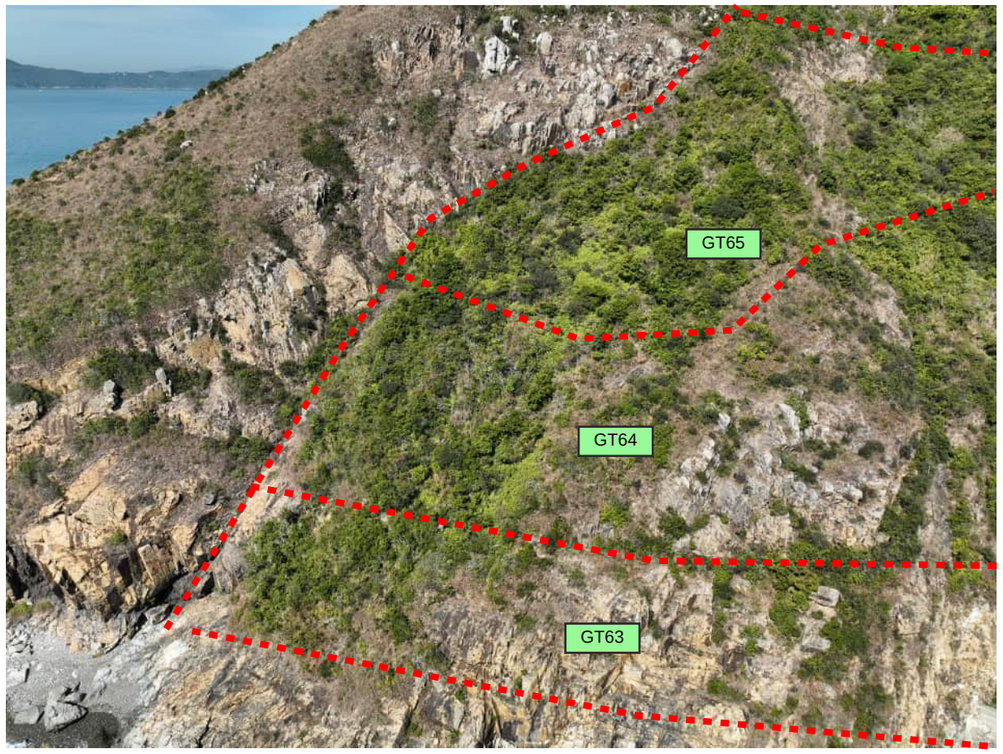


PHOTO OF GT61, 63, 64 & 65

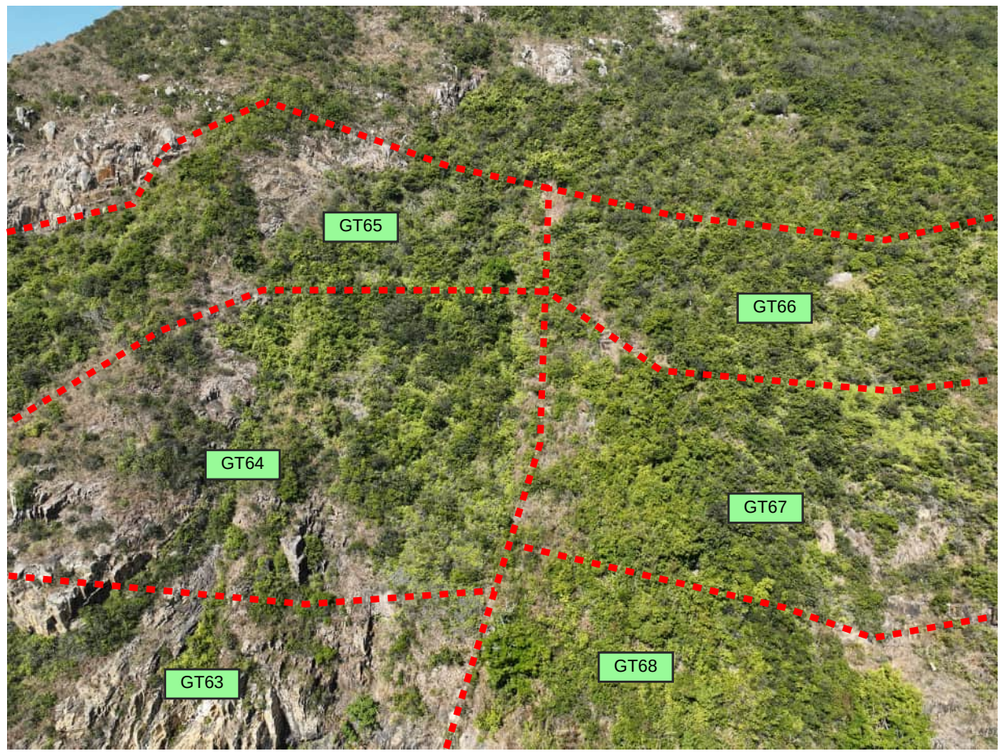


PHOTO OF GT63, 64, 65, 66, 67 & 68

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項目

EXPANSION OF ABERDEEN TYPHOON SHELTER - INVESTIGATION, DESIGN AND CONSTRUCTION

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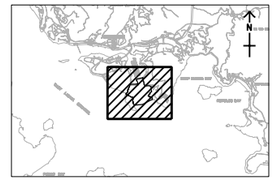
STATUS
階段

SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖: A3 1 : 200000



PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 34

SHEET NUMBER
圖紙編號

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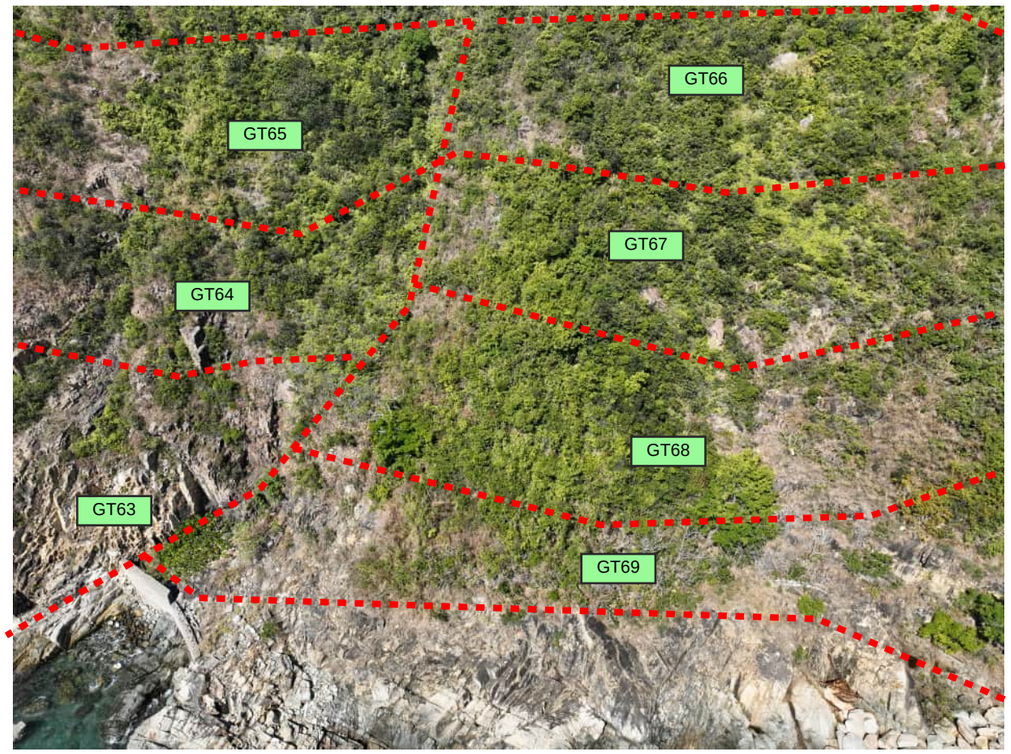

PHOTO OF GT63, 64, 65, 66, 67, 68 & 69

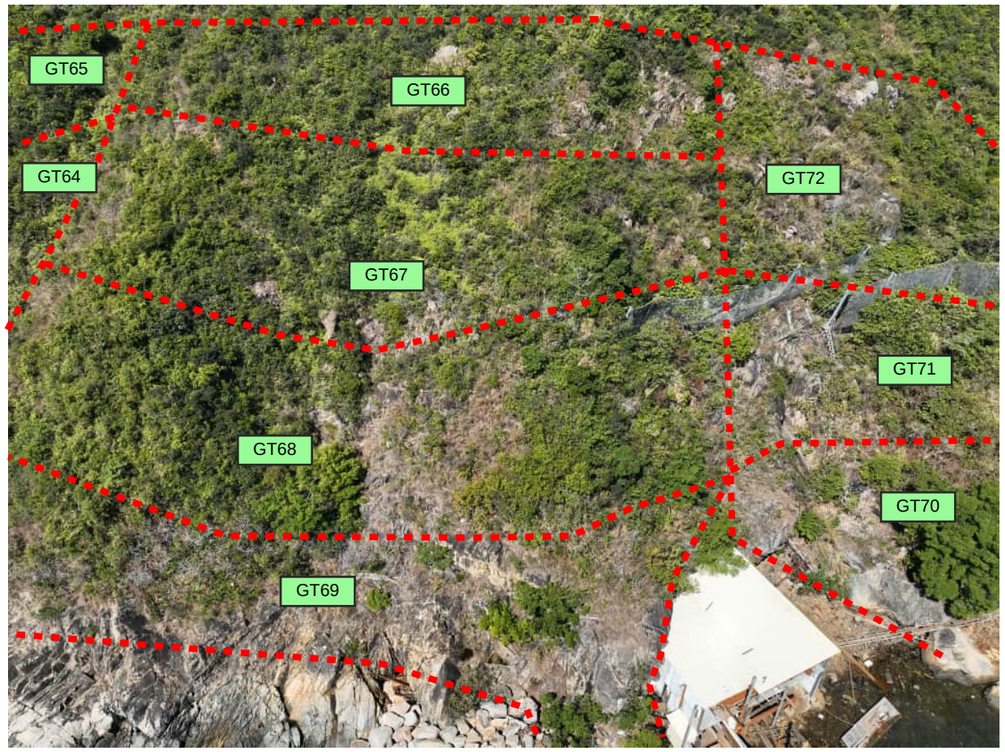

PHOTO OF GT64, 65, 66, 67, 68, 69, 70, 71 & 72

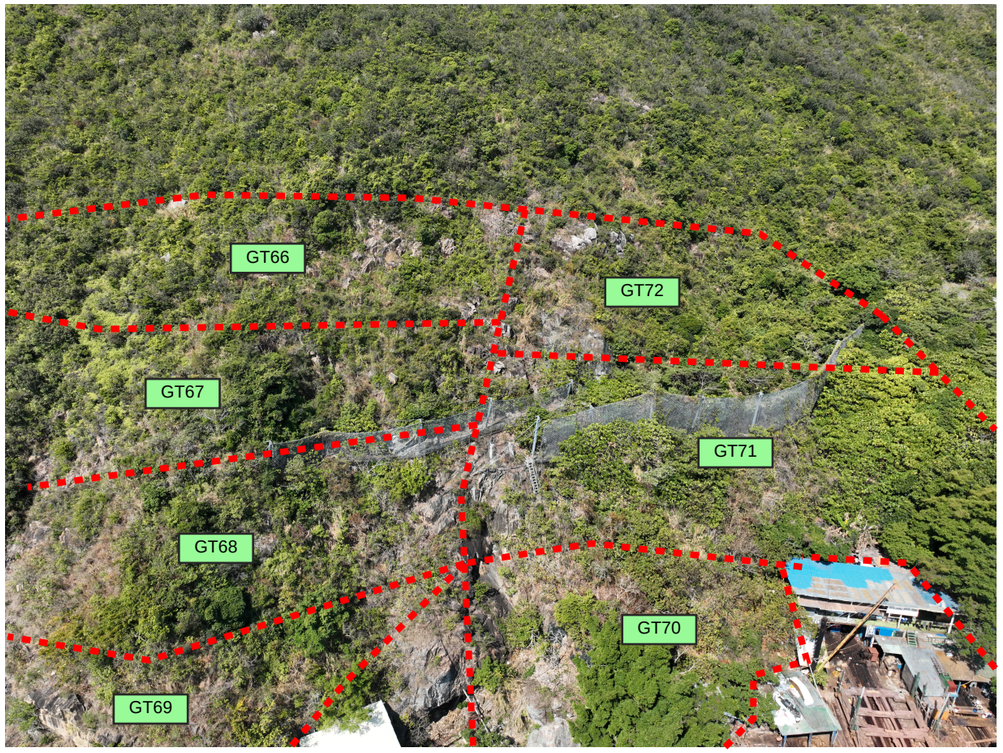

PHOTO OF GT70, 71 & 72

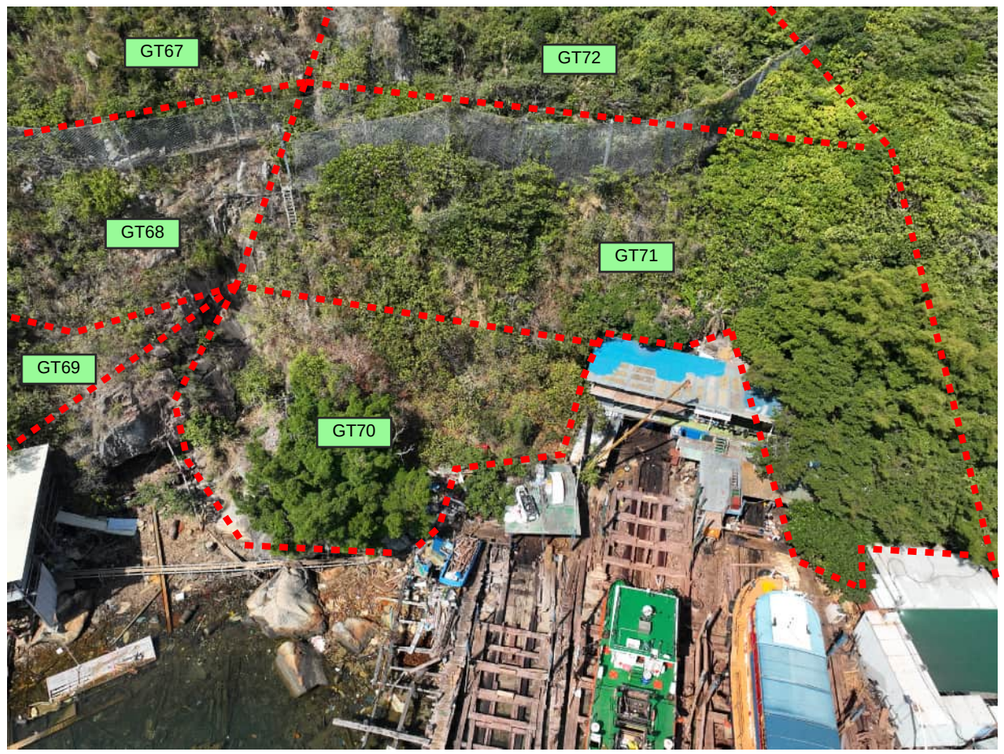

PHOTO OF GT71 & 72

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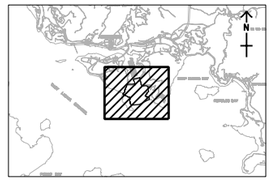
STATUS
階段

SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - TREE GROUP PHOTO - PAGE 35

SHEET NUMBER
圖紙編號

ISO A1 594mm x 841mm
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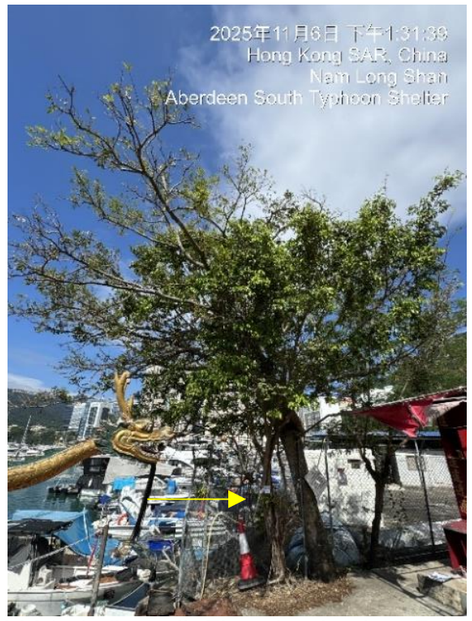
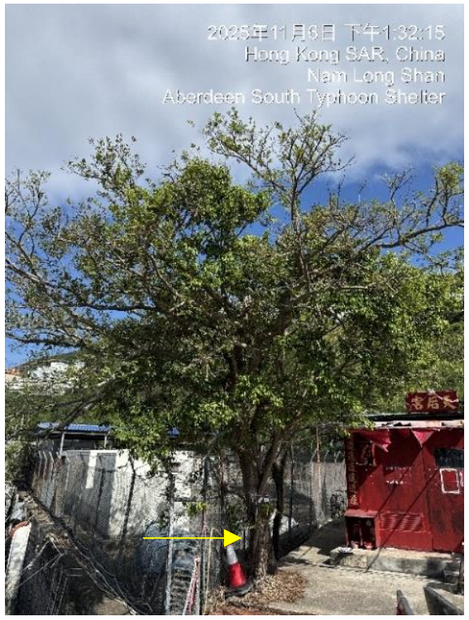
2025/2/20
PATH: P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_105.dgn

Tree Survey Date: 6 November 2025



T0001_1_Overall_Ficus benjamina_Retain



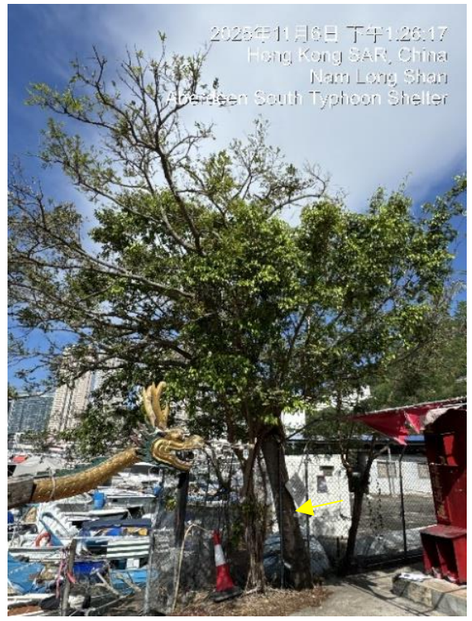
T0001_2_Crown_Ficus benjamina_Retain



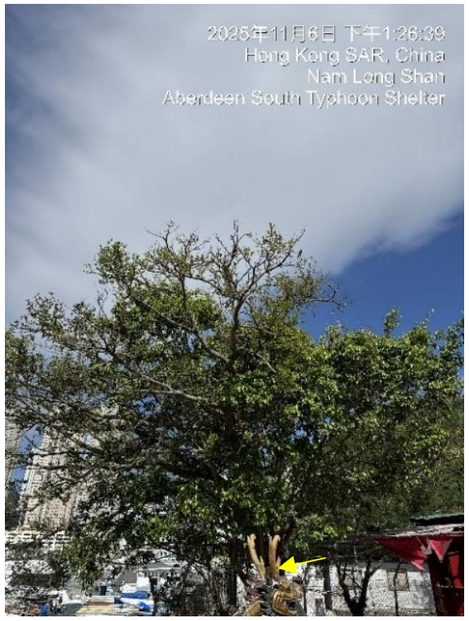
T0001_3_Trunk_Ficus benjamina_Retain



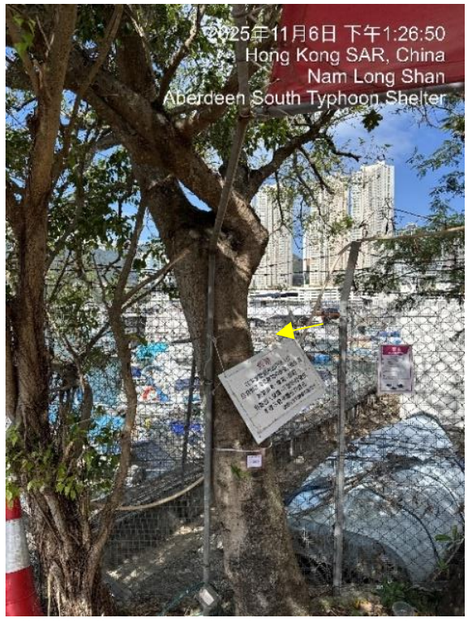
T0001_4_Root_Ficus benjamina_Retain



T0002_1_Overall_Celtis sinensis_Retain



T0002_2_Crown_Celtis sinensis_Retain



T0002_3_Trunk_Celtis sinensis_Retain



T0002_4_Root_Celtis sinensis_Retain

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PROJECT
項目

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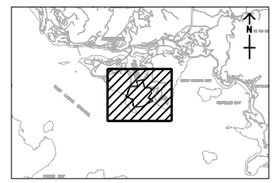
STATUS
狀況

SCALE 比例
A3 1 : 6000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號
60684361

CONTRACT NO. 合約編號
CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - INDIVIDUAL TREE PHOTO - PAGE 1

SHEET NUMBER
圖紙編號

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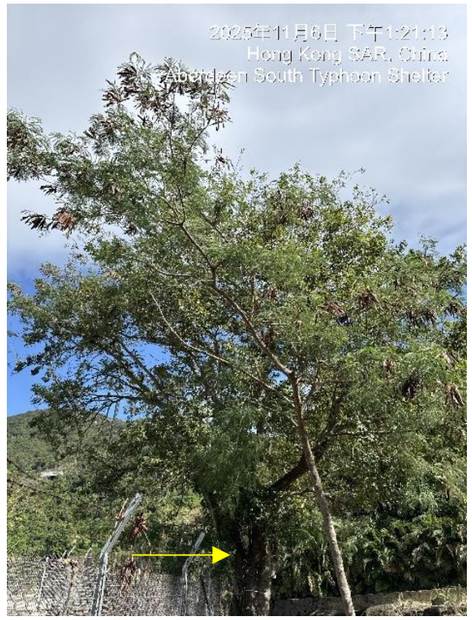
Tree Survey Date: 6 November 2025



T0003_1_Overall_Celtis sinensis_Retain



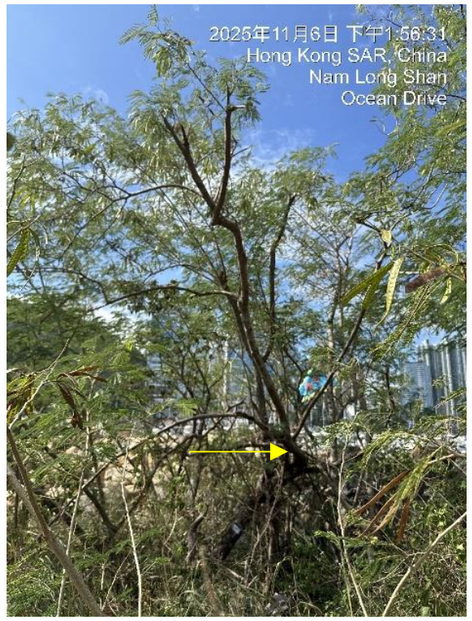
T0003_2_Crown_Celtis sinensis_Retain



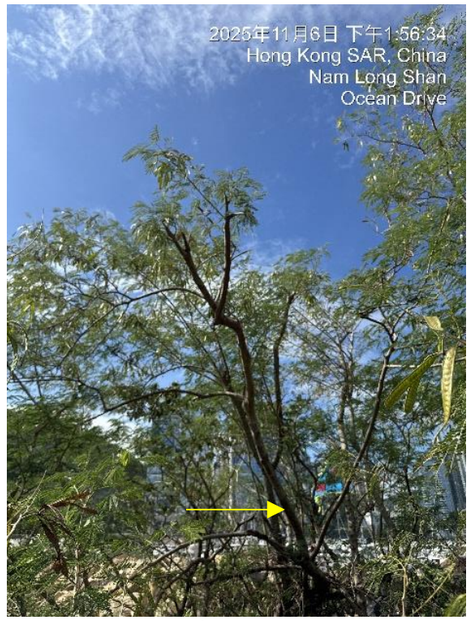
T0003_3_Trunk_Celtis sinensis_Retain



T0003_4_Root_Celtis sinensis_Retain



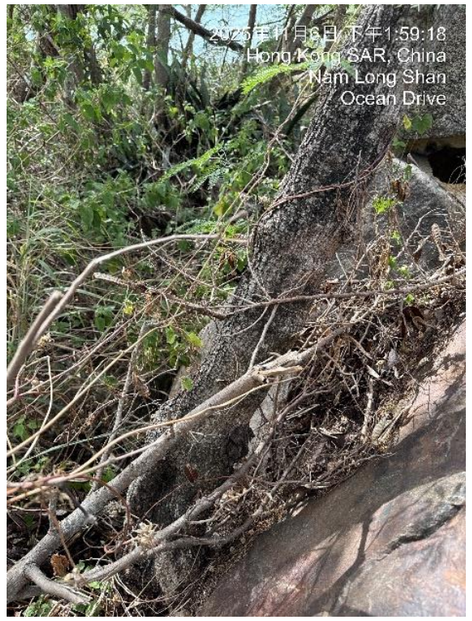
T0004_1_Overall_Leucaena leucocephala_Retain



T0004_2_Crown_Leucaena leucocephala_Retain



T0004_3_Trunk_Leucaena leucocephala_Retain



T0004_4_Root_Leucaena leucocephala_Retain

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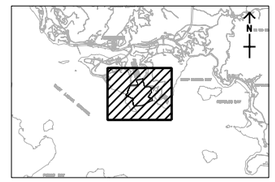
STATUS
階段

SCALE
比例
A3 1 : 6000

DIMENSION UNIT
尺寸單位
METRES

KEY PLAN
索引圖
A3 1 : 200000



PROJECT NO.
項目編號
60684361

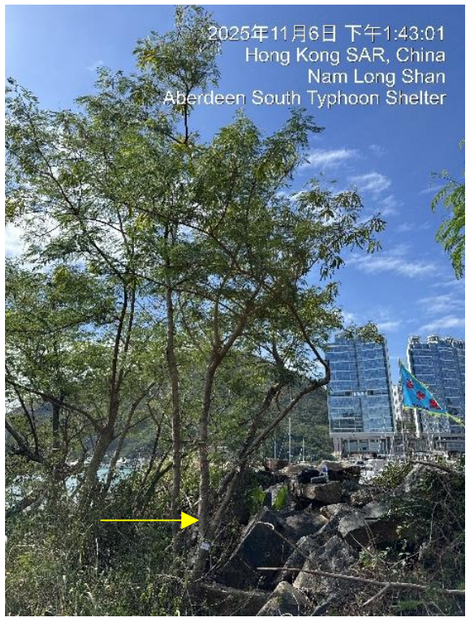
CONTRACT NO.
合約編號
CE 80/2021 (CE)

SHEET TITLE
圖紙名稱
APPENDIX 7.1 - INDIVIDUAL TREE PHOTO - PAGE 2

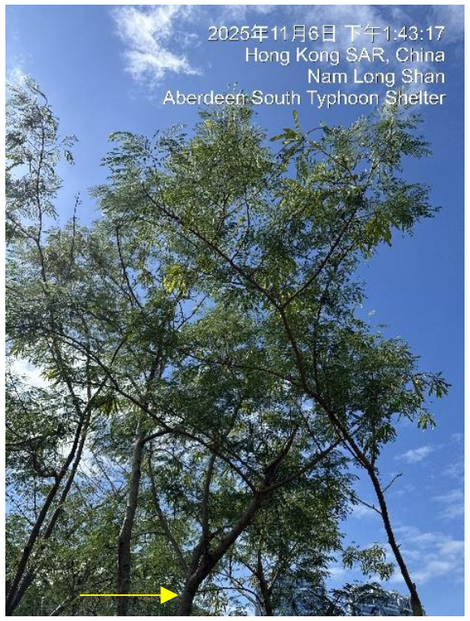
SHEET NUMBER
圖紙編號

-

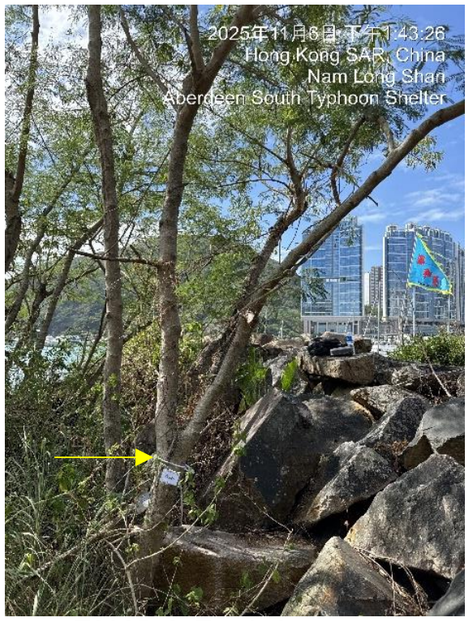
Tree Survey Date: 6 November 2025



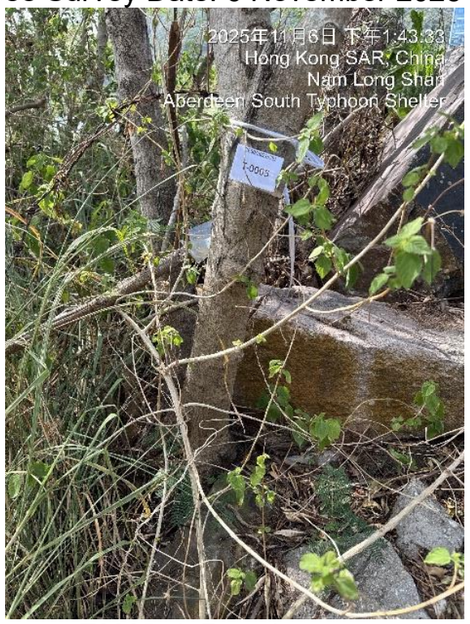
T0005_1_Overall_Leucaena leucocephala_Retain



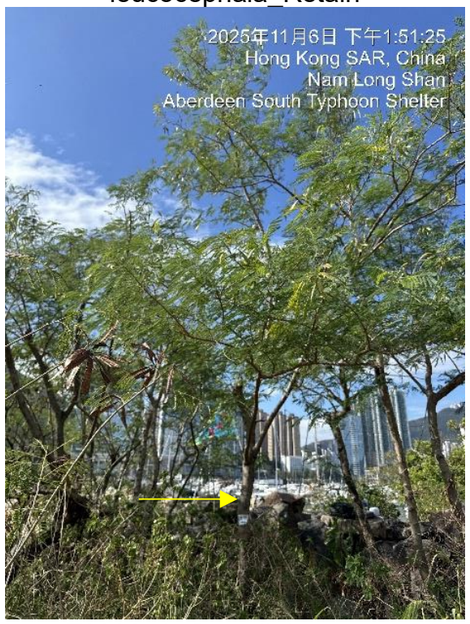
T0005_2_Crown_Leucaena leucocephala_Retain



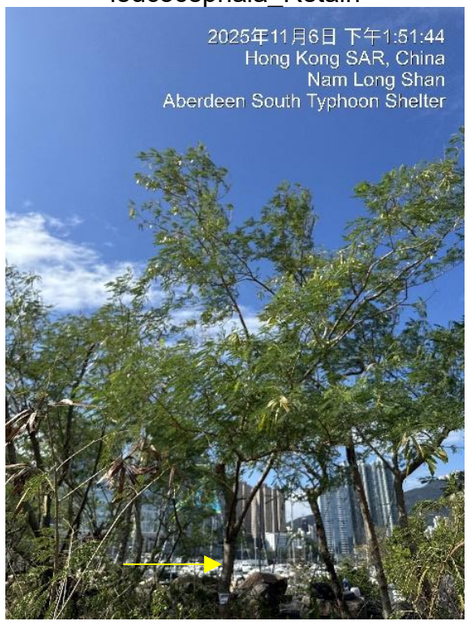
T0005_3_Trunk_Leucaena leucocephala_Retain



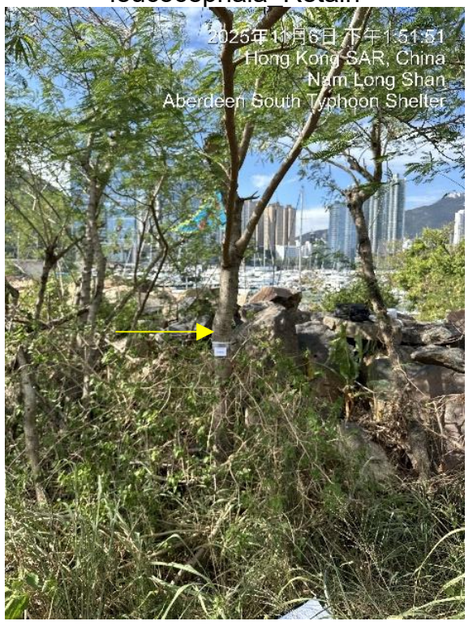
T0005_4_Root_Leucaena leucocephala_Retain



T0006_1_Overall_Leucaena leucocephala_Retain



T0006_2_Crown_Leucaena leucocephala_Retain



T0006_3_Trunk_Leucaena leucocephala_Retain



T0006_4_Root_Leucaena leucocephala_Retain

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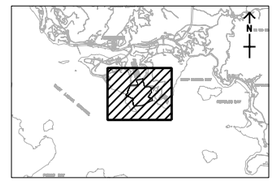
階段

SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361

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SHEET TITLE
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APPENDIX 7.1 - INDIVIDUAL TREE PHOTO - PAGE 3

SHEET NUMBER
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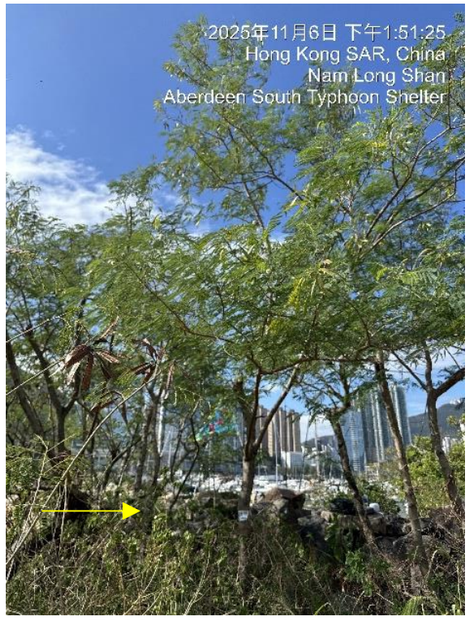
PATH: P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_105.dgn

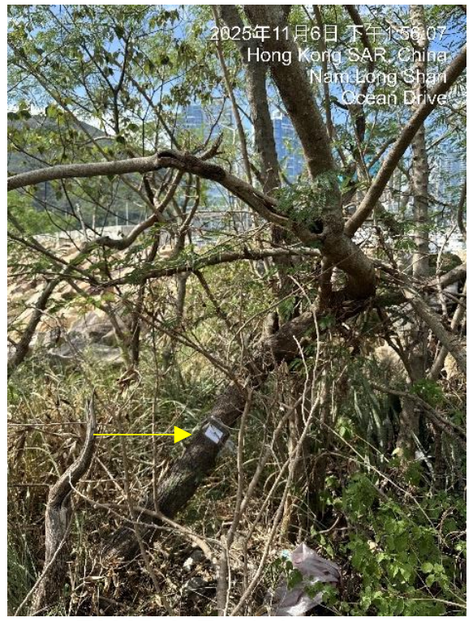
Tree Survey Date: 6 November 2025



T0007_1_Overall_Leucaena leucocephala_Retain



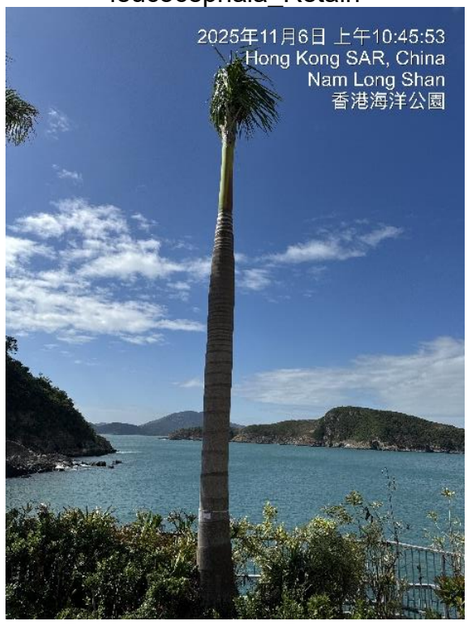
T0007_2_Crown_Leucaena leucocephala_Retain



T0007_3_Trunk_Leucaena leucocephala_Retain



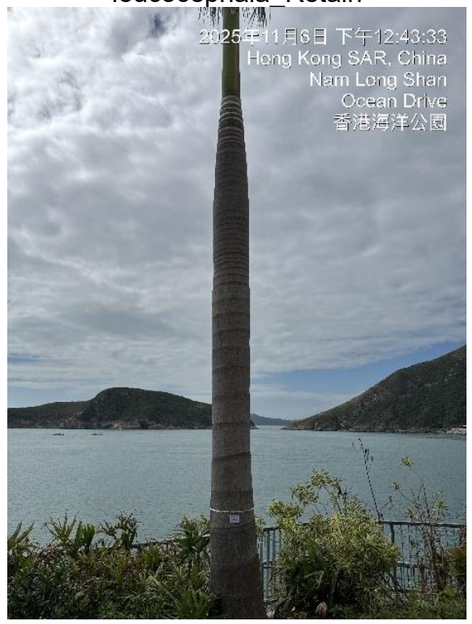
T0007_4_Root_Leucaena leucocephala_Retain



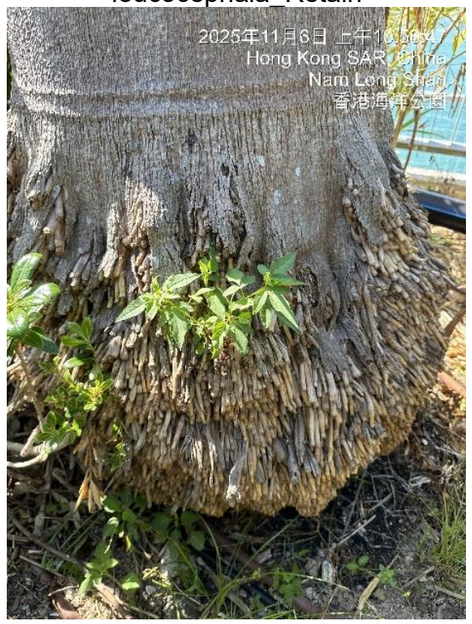
T0021_1_Overall_Roystonea regia_Retain



T0021_2_Crown_Roystonea regia_Retain



T0021_3_Trunk_Roystonea regia_Retain



T0021_4_Root_Roystonea regia_Retain

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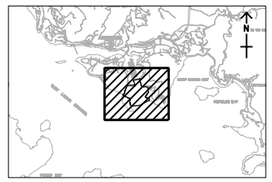
I/R 修訂	DATE 日期	DESCRIPTION 修訂摘要	CHK. 核核

STATUS
階段

SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - INDIVIDUAL TREE PHOTO - PAGE 4

SHEET NUMBER
圖紙編號

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Checked:
Designer:
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Plot File by: GaoT1 2025/2/20
PATH: P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_105.dgn

Tree Survey Date: 6 November 2025



T0022_1_Overall_Roystonea regia_Retain



T0022_2_Crown_Roystonea regia_Retain



T0022_3_Trunk_Roystonea regia_Retain



T0022_4_Root_Roystonea regia_Retain



T0023_1_Overall_Roystonea regia_Remove



T0023_2_Crown_Roystonea regia_Remove



T0023_3_Trunk_Roystonea regia_Remove



T0023_4_Root_Roystonea regia_Remove

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Checked:

Designer:

Project Management Initials:

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2025/2/20
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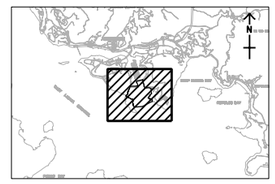
STATUS
階段

SCALE
比例
A3 1 : 6000

DIMENSION UNIT
尺寸單位
METRES

KEY PLAN
索引圖
A3 1 : 200000



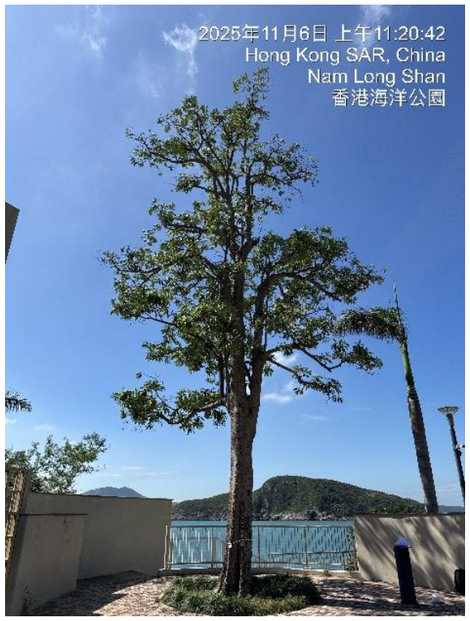
PROJECT NO.
項目編號
60684361

CONTRACT NO.
合約編號
CE 80/2021 (CE)

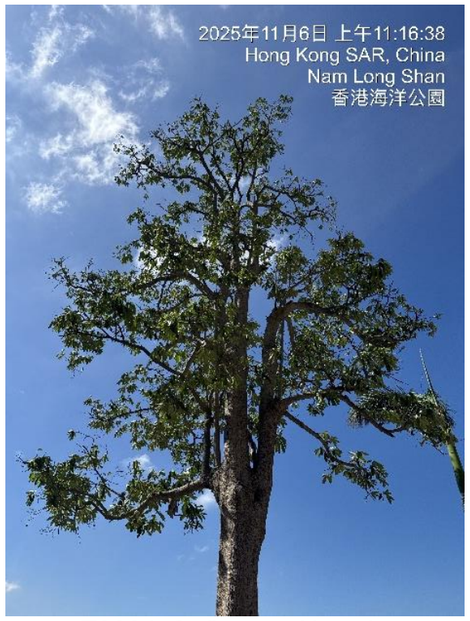
SHEET TITLE
圖紙名稱
APPENDIX 7.1 - INDIVIDUAL TREE PHOTO - PAGE 5

SHEET NUMBER
圖紙編號

Tree Survey Date: 6 November 2025



T0024_1_Overall_Alstonia scholaris_Retain



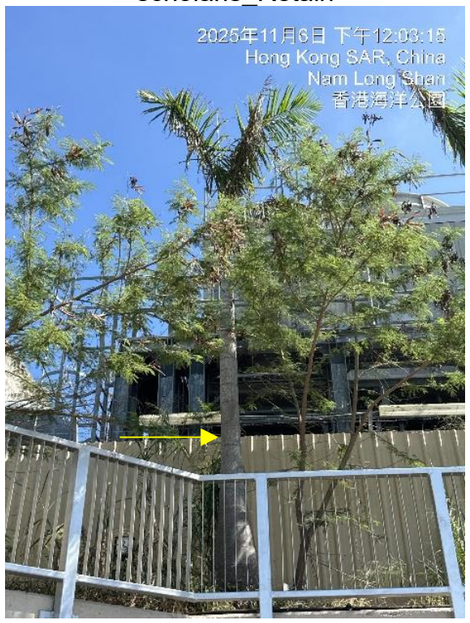
T0024_2_Crown_Alstonia scholaris_Retain



T0024_3_Trunk_Alstonia scholaris_Retain



T0024_4_Root_Alstonia scholaris_Retain



T0025_1_Overall_Roystonea regia_Retain



T0025_2_Crown_Roystonea regia_Retain



T0025_3_Trunk_Roystonea regia_Retain



T0025_4_Root_Roystonea regia_Retain

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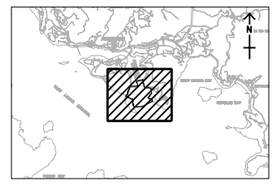
STATUS
階段

SCALE 比例: A3 1 : 6000
DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361
CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱
APPENDIX 7.1 - INDIVIDUAL TREE PHOTO - PAGE 6

SHEET NUMBER
圖紙編號

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

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Plot File by: GaoT1 2025/2/20
PATH: P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_105.dgn

Tree Survey Date: 6 November 2025



T0026_1_Overall_Roystonea regia_Retain



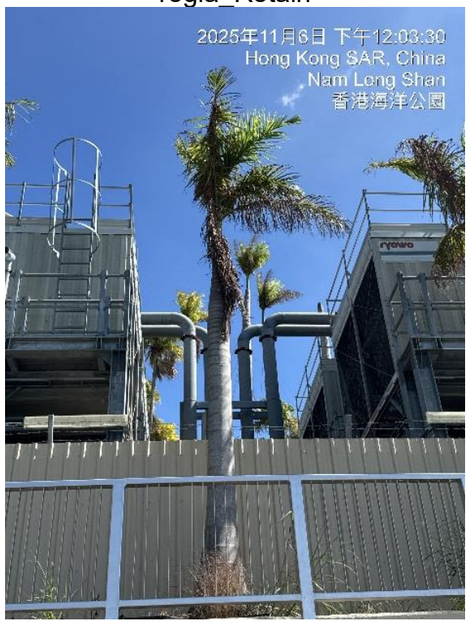
T0026_2_Crown_Roystonea regia_Retain



T0026_3_Trunk_Roystonea regia_Retain



T0026_4_Root_Roystonea regia_Retain



T0027_1_Overall_Roystonea regia_Retain



T0027_2_Crown_Roystonea regia_Retain



T0027_3_Trunk_Roystonea regia_Retain



T0027_4_Root_Roystonea regia_Retain

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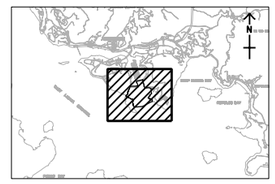
STATUS
階段

SCALE
比例
A3 1 : 6000

DIMENSION UNIT
尺寸單位
METRES

KEY PLAN
索引圖
A3 1 : 200000



PROJECT NO.
項目編號
60684361

CONTRACT NO.
合約編號
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SHEET TITLE
圖紙名稱
APPENDIX 7.1 - INDIVIDUAL TREE PHOTO - PAGE 7

SHEET NUMBER
圖紙編號

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
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Plot File by: GaoT1
2025/2/20
PATH: P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_105.dgn

Tree Survey Date: 6 November 2025



T0028_1_Overall_Roystonea regia_Retain



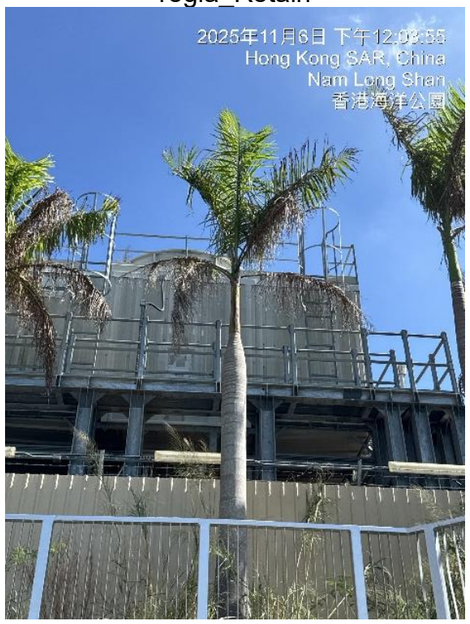
T0028_2_Crown_Roystonea regia_Retain



T0028_3_Trunk_Roystonea regia_Retain



T0028_4_Root_Roystonea regia_Retain



T0029_1_Overall_Roystonea regia_Retain



T0029_2_Crown_Roystonea regia_Retain



T0029_3_Trunk_Roystonea regia_Retain



T0029_4_Root_Roystonea regia_Retain

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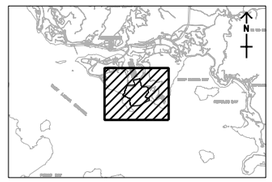
SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



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SHEET TITLE
圖紙名稱

APPENDIX 7.1 - INDIVIDUAL TREE PHOTO - PAGE 8

SHEET NUMBER
圖紙編號

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

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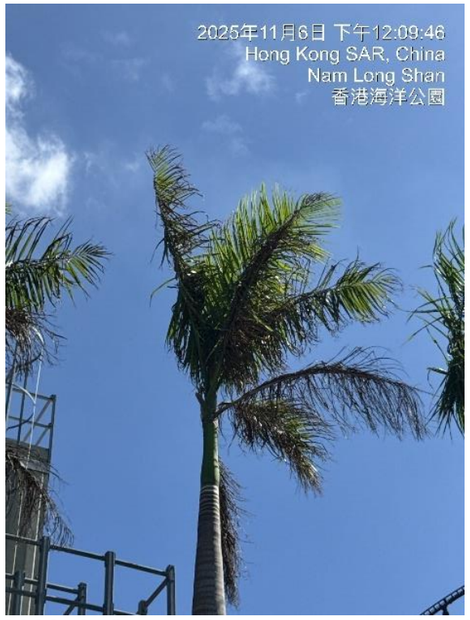
T0030_1_Overall_Roystonea regia_Retain



T0030_2_Crown_Roystonea regia_Retain



T0030_3_Trunk_Roystonea regia_Retain



T0030_4_Root_Roystonea regia_Retain



T0031_1_Overall_Roystonea regia_Retain



T0031_2_Crown_Roystonea regia_Retain



T0031_3_Trunk_Roystonea regia_Retain



T0031_4_Root_Roystonea regia_Retain

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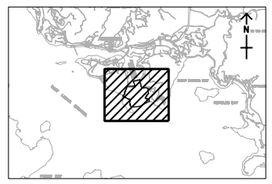
階段

SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



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CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - INDIVIDUAL TREE PHOTO - PAGE 9

SHEET NUMBER
圖紙編號

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Designer:
Project Management Initials:

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Plot File by: GaoT1
2025/2/20
PATH: P:\PROJECTS\60684361\DRAWING\REPORT\A11\A11_105.dgn

Tree Survey Date: 6 November 2025



T0032_1_Overall_Livistona chinensis_Retain



T0032_2_Crown_Livistona chinensis_Retain



T0032_3_Trunk_Livistona chinensis_Retain



T0032_4_Root_Livistona chinensis_Retain



T0033_1_Overall_Roystonea regia_Retain



T0033_2_Crown_Roystonea regia_Retain



T0033_3_Trunk_Roystonea regia_Retain



T0033_4_Root_Roystonea regia_Retain

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Designer:

Project Management Initials:

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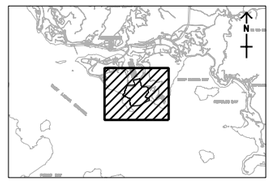
階段

SCALE 比例: A3 1 : 6000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60684361

CONTRACT NO. 合約編號: CE 80/2021 (CE)

SHEET TITLE
圖紙名稱

APPENDIX 7.1 - INDIVIDUAL TREE PHOTO - PAGE 10

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