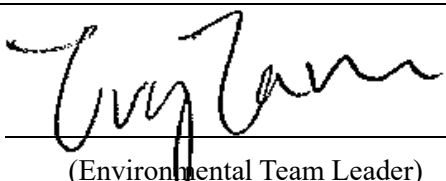
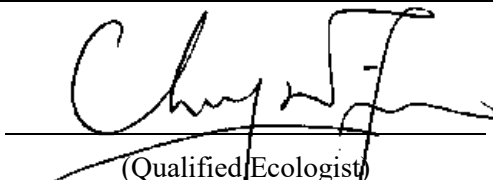


# Civil Engineering and Development Department

## Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

### Detailed Vegetation Survey Report (Version 3.0)

Certified By	 (Environmental Team Leader)
Prepared By	 (Qualified Ecologist)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

WELLAB accepts no responsibility for changes made to this report by third parties.

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## 1 INTRODUCTION

- 1.1 The Project consists of site formation works and building works for the co-location of various police facilities in the Project site at Kong Nga Po as well as road improvement works to a section of the existing Kong Nga Po Road between the police facilities and Man Kam To Road. The police facilities include:
- Lo Wu Firing Range (LWFR) to be relocated from Lo Wu;
  - Ma Tso Lung Firing Range (MTLFR) to be relocated from Ma Tso Lung;
  - Weapons Training Facilities (WTF) and Police Driving and Traffic Training Facilities (PD&TTF) to be relocated from Fan Garden;
  - Helipad to be relocated from Lo Wu;
  - A Proposed Police Training Facility (PTF); and
  - A new internal access road network with underpass within the Project site.
- 1.2 The improvement works to Kong Nga Po Road between the police facilities and Man Kam To Road includes roadworks, viaduct of less than 100m between abutments, and associated works such as slopeworks and retaining walls.
- 1.3 In addition to the above, associated supporting infrastructure and utilities including an underground stormwater storage tank, sewage pumping station, petrol / diesel filling station, a multi-storey training complex associated with the PD&TTF, and other ancillary facilities will also be provided.
- 1.4 The Project is a Designated Project under the Environmental Impact Assessment Ordinance (EIAO). An Environmental Impact Assessment (EIA) Report for the Project was approved under EIAO in October 2016 in accordance with the EIA Study Brief (No. ESB-276/2014) and the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM). The corresponding Environmental Permit was issued (EP no.: EP-510/2016) by the Director of Environmental Protection (DEP) in November 2016.
- 1.5 Contract No. ND/2018/01 generally consists of site formation & infrastructure works for the co-location of various police facilities at Kong Nga Po as well as upgrading works to a section of the existing Kong Nga Po Road between the police facilities and Man Kam To Road (hereinafter called “the Project” ). The major construction activities of the Project are site formation and infrastructure works which will include site clearance, excavation and filling, construction of access road, utilities laying and landscaping works.
- 1.6 Section 8.3.1 of the Environmental Monitoring and Audit (EM&A) Manual and Condition 2.13 of the EP specifies that a Detailed Vegetation Survey should be conducted as baseline monitoring to confirm / update the exact locations, number and condition of individuals of any flora species of conservation interest within the works boundary, including Kong Nga Po Road prior to the commencement of site clearance. Wellab Limited was commissioned by the Civil Engineering Development Department (CEDD) to prepare a Detailed Vegetation Survey Report, including Transplantation Proposal (Condition 2.13 to 2.14 of EP). Details of the report include:
- Methodology;

- survey results, including the updated conditions, number and locations of the individuals of flora species of conservation interest identified within the works boundary, including Kong Nga Po Road;
- confirmation on whether any individuals of these species would be directly affected by the proposed works;
- recommendation on protective measures for identified individuals of each species where in situ preservation is feasible; and
- assessment on the suitability and / or practicality of the transplantation of those individuals to be directly affected.

## 2 METHODOLOGY

### Qualification of the Ecologist

- 2.1 According to the Clause 8.3.1.1 of EM&A Manual, the detailed vegetation survey was conducted by a qualified ecologist with at least 5 years of experience in flora study or survey. The curriculum vitae of the qualified ecologist and Arborist (Dr. Priscilla Choy) are shown in **Appendix C**.

### Survey Requirement

- 2.2 The scope of the detailed vegetation survey includes the following:
- checking and updating the number, locations and condition of Cycad-fern *Brainea insignis*, Fortune's Keteleeria *Keteleeria fortunei* and Ladies Tresses *Spiranthes sinensis* identified and any other flora species of conservation interest by actively searching within the works boundary;
  - preparing an updated location plan showing the locations of individuals of Cycad-fern *Brainea insignis*, Fortune's Keteleeria *Keteleeria fortunei* and Ladies Tresses *Spiranthes sinensis* and any other flora species of conservation interest identified within the works boundary during the detailed vegetation survey;
  - confirming whether any of the individuals of Cycad-fern *Brainea insignis*, Fortune's Keteleeria *Keteleeria fortunei* and Ladies Tresses *Spiranthes sinensis* and any other flora species of conservation interest identified within the works boundary during the detailed vegetation survey will likely be directly affected by the proposed works of the Project;
  - for individuals of Cycad-fern *Brainea insignis*, Fortune's Keteleeria *Keteleeria fortunei* and Ladies Tresses *Spiranthes sinensis* and any other flora species of conservation interest not anticipated to be directly affected, recommending protective measures of identified individuals for each species where in situ preservation is feasible; and
  - for individuals of Cycad-fern *Brainea insignis*, Fortune's Keteleeria *Keteleeria fortunei* and Ladies Tresses *Spiranthes sinensis* and any other flora species of conservation interest likely to be directly affected, preparing a transplantation proposal which includes detailed methodology of transplantation for each species, plans with proposed recipient locations, post-transplantation maintenance schedule for each species and detailed implementation programme.
- 2.3 The detailed vegetation survey covered all works areas, including Kong Nga Po Road. The latest works area provided by the project engineer is shown in **Drawing No. 60534575/C1/1000A – 60534575/C1//1001-1009**. With reference to **Figure 9.2a – 9.2d** of the EIA Report and tree survey completed under Agreement No. CE 60/2016 (CE) along the alignment of the Kong Nga Po Road upgrading works in May 2017 as mentioned in Section 2.3.2 of Explanatory Statement for Revised Layout Plan of Kong Nga Po Road (Final), four flora species of conservation importance were found within the latest site boundary as shown in **Table 2.1(a-b)**.

**Table 2.1a Flora Species of Conservation Importance Found within Works Areas in the EIA**

Species	Location	Conservation and Protection Status	Distribution	Rarity
Cycad-fern <i>Brainea insignis</i>	Plantation area and northwestern periphery of the Project site	Listed as Category II protected species in Mainland China	Guangdong, Guangxi, Yunnan, Guizhou, Fujian, Taiwan; N India to Indonesia <sup>(1)</sup>	Considered Common in Hong Kong <sup>(1)</sup> ; Listed in Rare and Precious Plants of Hong Kong <sup>(1)</sup>
Ladies Tresses <i>Spiranthes sinensis</i>	Beside a U-channel within the Project site	Listed under Forestry Regulations (Cap. 96 sub. leg.) and Protection of Endangered Species of Animals and Plants Ordinance (Cap.586) in Hong Kong	Widely distributed in China; E Asia, S to SE Asia, Australia <sup>(3)</sup>	This species is considered common and widespread in Hong Kong <sup>(3,4)</sup> ; Listed as “least concern” under IUCN Red List of Threatened Species <sup>(2)</sup>
Fortune's Keteleeria <i>Keteleeria fortunei</i>	On both sides along Kong Nga Po Road near Police Search Training School within the Project site	Listed under Forestry Regulations (Cap. 96 sub. leg.)	Natural populations in Cape D’Aguilar and Stanley <sup>(5)</sup>	This species has been propagated in the natural environment with promising results <sup>(6)</sup> ; Listed as Near Threatened under IUCN Red List of Threatened Species <sup>(2)</sup>

Reference sources:

- (1) Rare and Precious Plants of Hong Kong (AFCD, 2003)
- (2) IUCN Red List of Threatened Species (IUCN, 2015)
- (3) Flora of Hong Kong Volume 4 (Hong Kong Herbarium and South China Botanical Garden, 2011)
- (4) The Wild Orchids of Hong Kong (Baretto et al., 2011)
- (5) Flora of Hong Kong Volume 1 (Hong Kong Herbarium and South China Botanical Garden, 2007)
- (6) Hong Kong Biodiversity Issue No. 20 (Pang et al., 2011)

**Table 2.1b Flora Species of Conservation Importance Found within Works Areas in the Explanatory Statement for Revised Layout Plan of Kong Nga Po Road (Final)**

Species	Location	Conservation and Protection Status	Distribution	Rarity
Incense Tree <i>Aquilaria sinensis</i>	On the side along Kong Nga Po Road near Police Search Training School within the Project site	Listed under Protection of Endangered Species of Animals and Plants Ordinance (Cap.586) in Hong Kong; listed as near threatened in mainland China <sup>(1)</sup> ; Category II protected species in Mainland China.	Widely distributed in Hong Kong <sup>(1)</sup> .	The species is common in Hong Kong <sup>(2)</sup> ; Listed as “vulnerable” under IUCN Red List of Threatened Species <sup>(3)</sup> .

Reference sources:

- (1) Rare and Precious Plants of Hong Kong (AFCD, 2003)
- (2) Hong Kong Vascular Plants: Distribution and Status (Corlett et al., 2000)
- (3) IUCN Red List of Threatened Species (IUCN, 2015)

2.4 The detailed vegetation survey aims to verify the findings in EIA, and to identify whether or not other species of conservation importance are present in the works areas, including Kong Nga Po Road. Definition of “species of conservation importance” follows the Technical Memorandum of Environmental Impact Assessment Ordinance (EIAO-TM) Annex 16: Guidelines for Ecological Assessment:

1. listed in IUCN Red Data Books or those of the South China region;
2. listed in international conventions for conservation of wildlife;
3. endemic to Hong Kong or South China;
4. listed under local legislation :
  - (1) Forestry Regulation (under Forests and Countryside Ordinance Cap. 96);
  - (2) Protection of Endangered Species of Animals and Plants Ordinance (Cap. 586);
  - a) Other relevant Ordinances or Regulations such as Marine Parks and Marine Reserves Regulation (under Marine Parks Ordinance Cap. 476); (References shall also be made to species protected by legislation in China, especially the Guangdong Province.)
- 2) considered as rare in the territory or having special conservation importance by scientific studies other than those listed above.

## Survey Method and Equipment

### Active Searching

- 2.5 Active searching for Cycad-fern *Brainea insignis*, Fortune's Keteleeria *Keteleeria fortunei*, Ladies Tresses *Spiranthes sinensis*, Incense Tree *Aquilaria sinensis* and any other flora species of conservation interest were carried out within the works area as shown in **Drawing No. 60534575/C1/1000A – 60534575/C1//1001-1009**.
- 2.6 Only plant species of conservation importance that naturally grows within the works area were counted. Species that are planted for landscape purpose or human consumption (e.g. fruit trees near village) were excluded.

### Locating Species of Conservation Importance

- 2.7 The location of each individual/colony were marked on a map of suitable scale. A hand held Global Positioning System (GPS) was used to aid positioning where necessary.

### Tagging of Species of Conservation Importance

- 2.8 Each individual/colony of species of conservation importance were clearly tagged with label for future reference. The label includes appropriate numbering with the Project name / contract number.

### Recording Plant Conditions

- 2.9 The conditions of each individual/colony, including approximate number of individuals in the colony, form, health condition, and suitability for transplanting were recorded and evaluated where applicable. In addition, the size of the plant (which can reflect its maturity) was recorded based on its growth form:
- For trees (e.g. Fortune's Keteleeria *Keteleeria fortunei* and Incense Tree *Aquilaria sinensis*), diameter at breast height (DBH), crown spread and height were recorded. DBH were measured in accordance to Agriculture, Fisheries and Conservation Department's (AFCD's) Nature Conservation Practice Note No. 2 (Revised: June 2006) – Measurement of Diameter at Breast Height (DBH). A measurement tape was used for the measurement. Height and crown spread were also measured by the tape / were estimated where applicable.
  - For shrubs, ferns (Cycad-fern *Brainea insignis*) and herbs (e.g. Ladies Tresses *Spiranthes sinensis*), the height were measured. If the plant grows in large patch, the coverage of the colony was recorded.
- 2.10 Photographic record for each individual/colony were taken.

### 3 SURVEY RESULT

3.1 Detailed vegetation survey was conducted from 28<sup>th</sup> February to 6<sup>th</sup> March 2020. Four plant species of conservation importance (*Aquilaria sinensis*, *Brainea insignis*, *Keteleeria fortunei* and *Spiranthes sinensis*) were recorded within and in the vicinity of the site boundary. All species have been reported in the EIA Report and Explanatory Statement for Revised Layout Plan of Kong Nga Po Road (Final) respectively.

3.2 The location of all plant species are illustrated in **Figures 1A-1H**. A plant schedule showing survey summary and photographic record are shown in **Appendix A** and **B** respectively. The survey finding for each plant species are described in the following sections:

#### **Cycad-fern *Brainea insignis***

3.3 8 patches (C-0001 (8 nos.), C-0002 (8 nos.), C-0004 (20 nos.), C-0005 (7 nos.), C-0007 (2 nos.), C-0008 (7 nos.), C-0010 (3 nos.) and C-0011 (13 nos.) and 3 individuals of cycad-fern *Brainea insignis* were found within the site boundary. 1 patch of surveyed *Brainea insignis* was found at the plantation area within the Project site and the others were found at north western periphery of the Project site. The health condition of the surveyed *Brainea insignis* were generally fair.

#### **Ladies Tresses *Spiranthes sinensis***

3.4 A total of 41 individuals of *Spiranthes sinensis* were found within the Project site. The health condition of the surveyed plants were found good to fair.

#### **Fortune's Keteleeria *Keteleeria fortunei***

3.5 52 individuals of *Keteleeria fortunei* (DBH $\geq$ 95mm) were identified on both sides along Kong Nga Po Road near Police Dog Unit and Force Search Unit Training School. In addition, 28 undersized seedlings of *Keteleeria fortunei* were identified. One tree (F-0017) and two seedlings (F-0044 and F-0049) were found dead. The health condition of the surveyed *Keteleeria fortunei* were generally fair.

3.6 From Tree Survey carried out under Agreement No. CE60/2016(CE) along the alignment of the Kong Nga Po Road upgrading works in May 2017, T1094, KF027, KF066, KF068 and KF070 were found dead and fell. One of the *Keteleeria fortunei* seedlings has been developed into tree (F-0039 (KF040)).

#### **Incense Tree *Aquilaria sinensis***

3.7 7 undersized seedlings of *Aquilaria sinensis* were found along Kong Nga Po Road near Police Dog Unit and Force Search Unit Training School.

3.8 2 individuals of *Aquilaria sinensis* were found within the work area of proposed Kong Nga Po road upgrading works and 1 individual was found within the work area for site formation works.

3.9 The health condition of the surveyed plants were generally fair.

## 4 IMPACT ASSESSMENT & RECOMMENDATIONS

### Impact Assessment

- 4.1 The vegetation survey was conducted within the latest site boundary provided by the project engineer (**Drawing No. 60534575/C1/1000A – 60534575/C1//1001-1009**). The vegetation within the works areas, including Kong Nga Po Road will be removed for site formation and infrastructure works. However, a revised Kong Nga Po road layout has been proposed to be adopted for the KNP Road upgrading works to preserve the existing *Keteleeria fortunei* and *Aquilaria sinensis* (Undersized Seedlings) according to Explanatory Statement for Revised Layout Plan of Kong Nga Po Road (Final). **Table 4.1** show the number of individuals of the flora species of conservation importance would be affected by the Project without mitigation.

**Table 4.1 Flora Species of Conservation Importance affected by the Project**

Chinese Name (Species Name)	No. of Individuals observed during Vegetation Survey	No. of Affected Individuals
蘇鐵蕨 Cycad-fern ( <i>Brainea insignis</i> )	71	71
綬草 Ladies Tresses ( <i>Spiranthes sinensis</i> )	41	41
油杉 Fortune's Keteleeria ( <i>Keteleeria fortunei</i> )	80	0
土沉香 Incense Tree ( <i>Aquilaria sinensis</i> ) - Undersized Seedlings	7	0
土沉香 Incense Tree ( <i>Aquilaria sinensis</i> )	3	3

### Recommendations

- 4.2 The proposed treatment and justification for each identified plant species are explained below:

#### Avoidance

- 4.3 The works area has been refined in accordance with the Revised Layout Plan of Kong Nga Po Road to avoid the direct impact on the existing *Keteleeria fortunei* and *Aquilaria sinensis* (Undersized Seedlings). Therefore, *Keteleeria fortunei* and *Aquilaria sinensis* (Undersized Seedlings) along Kong Nga Po Road near Police Dog Unit and Force Search Unit Training School identified from the survey would be preserved. They will be protected in accordance with DBVE TC(W) 7/2015 on "Tree Preservation" and tree risk assessment in accordance with "Guidelines for Tree Risk Assessment and

Management Arrangement” by DEVB shall be undertaken during the construction period. In addition, the construction works will comply with Section 26 of the General Specification for Civil Engineering Works (2006 Edition) for preservation and protection of trees as appropriate.

- 4.4 According to Section 9.7.1 of the EIA Report, erection and maintenance of a temporary protective fence enclosing the flora species of conservation interest identified under the detailed vegetation survey is recommended to avoid potential impact from construction activities such as materials storage during construction phase. Monthly monitoring of any flora species of conservation interest identified in the detailed vegetation survey should be conducted during the construction phase to make sure that the flora species of conservation interest are not affected by the construction activities of the Project. The checklist for monthly monitoring is shown in **Appendix D**.
- 4.5 The details of the protection measures for the existing *Keteleeria fortunei* and *Aquilaria sinensis* are presented in Section 4.11.

#### Minimization

- 4.6 Plants that fall within the Project site are prone to damage during site clearance. If impact on the plant species of conservation importance cannot be avoided, the suitability and /or practicality of transplantation will be assessed according to Condition 2.13(i) of the EP. Considerations include health condition, site condition, transplantation feasibility, conservation value and availability of receptor site. With reference to the *Guidelines on Tree Transplanting* issued by the Development Bureau, the suitability of transplantation of affected individuals was reviewed based on the following considerations:
- **Health, form and structural condition** – Healthy individual has higher chance to survive the transplant shock and recover after transplantation. Plants with poor form or structure (e.g. inclining, multiple trunk) have imbalanced shape that is difficult to grow well in new environment. Therefore, only healthy individuals with good to fair form and structural conditions will be considered for transplantation.
  - **Formation of root ball** – A balanced root ball of suitable size is essential to support the transplanted plant and to re-grow for water and nutrient absorption. In general, the ratio between root ball diameter:trunk diameter is 8:1 to 10:1. Also, plants growing on steep slope develop roots that adapt to the existing gradient. If there is hindrance in the root growing direction (e.g. rocks and concrete structure), the root ball will be in unbalanced form and hard to support the plant in new environment. Mature plant needs larger root ball, implying that higher chance of imbalanced root ball formation on the sloped environment. Therefore, transplantation of herbs and young trees is recommended.
  - **Technical feasibility and cost effectiveness** – Unless the plant is located near road network, mobilization of powered mechanical equipment on the slope for large tree transplant is technical impractical and not cost-effective.
  - **Conservation value** – While all plants considered in this proposal have certain conservation statuses, the commonness of the species in Hong Kong should be

considered in evaluating the impact of removing the affected plant in a wider perspective (population survival).

- **Availability of Suitable Receptor Site** – Areas within the survey area but outside the development area will be the receptor site of the affected plants. Habitat similar to the existing growing environment will be chosen to enhance the survival rate after transplant.
- 4.7 Based on the above, transplantation of all *Brainea insignis*, *Spiranthes sinensis* and 3 individuals of *Aquilaria sinensis* identified in works areas are recommended. The exact numbers to be transplanted are subject to the actual site conditions.
- 4.8 The methodology of transplantation for each species, plans with proposed recipient locations, post-transplantation maintenance schedule for each species and detailed implementation programme are proposed in the separate Transplantation Proposal.
- 4.9 It is proposed that all identified flora species of conservation interest within the works boundary, including Kong Nga Po Road, will be protected according to Section 4.11 prior to the commencement of any site clearance works adjacent to the flora species of conservation interest. No site clearance for site formation and infrastructure works will be started at the locations of flora species of conservation interest until the transplantation works completed.
- 4.10 A 2m buffer zone (including 1m protection zone as mentioned in Section 4.11) will be created to enhance the protection of flora species of conservation importance to be preserved / transplanted (inclusive of trees, shrubs and herbs) including the proposed location for transplantation of flora species of conservation importance when the site clearance works for site formation and infrastructure works at the area without flora species of conservation importance shall commence before the transplantation works completed.

### **Protective Measures**

- 4.11 During construction of the Project, the following guidelines should be followed to protect retained trees and plant species of conservation importance within and in the vicinity of the work area:
- All works should be confined within the site boundary.
  - Access of site staff should be controlled to avoid damage to the vegetation in surrounding areas.
  - Equipment or stockpile should be placed in the existing disturbed / urbanized land within the site boundary of the Project to minimize disturbance to vegetated areas.
  - Before the commencement of construction works, the Contractor must be aware which trees/plants are to be retained and which are to be transplanted.
  - Trees/plants which have been proposed to be transplanted should be clearly marked on the layout plan.
  - Trees/plants which are to be retained should be clearly marked on site prior to the commencement of site construction works, preferably by printed numbers consistent with the Tree Survey Report and Detailed Vegetation Survey Report for the Project. Trees/plants to be retained will also be marked with surveyor's flagging or ribbon.

- As a general rule the majority of a tree's roots lies within an area just greater than the spread of its crown and are at a depth of approximately 600mm. This may be less on heavy soils and greater on drier soils. Therefore, the following precautions should be undertaken in order to prevent damage to the trunks, roots and crowns of trees during constructions.
  - A tree protection zone should be set below the drip line of the tree crown for trees near the edge of the works area. For plant species of conservation importance to be preserved (inclusive of trees, shrubs and herbs), the protection zone should be set 1m from the plant. Robust, bright-coloured fencing of 1.5m in height should be erected to remind workers not to trespass before site clearance.
  - Heavy equipment, supplies, ditches and underground utility lines should be placed outside the protection zone.
  - Care should be taken to prevent trees/plants being damaged by mechanical equipment both during site clearance works and construction works.
  - No fixings should be driven into trees/plants.
  - No workshop, canteens, or similar should be installed beneath trees/plants, nor will equipment maintenance etc. be carried out under trees/plants.
  - No excavation, including that for services or changes in ground level will take place within the spread of the crown of the trees/plants.
  - No change of ground level around preserved trees/plants is permitted.
  - No soil, debris or construction materials should be deposited around and against the trunk of a tree/plant as this causes bark damage and compaction of the soil.
  - No fire should be lit below the branches and no petrol, oil or caustic substances stored near the trees/plants.
  - No trees/plants should be used for anchoring or winching purposes or for the display of signs.
  - Regular inspection should be conducted to ensure the integrity of the protection zone and the plant condition.
  - Any damage or injury to the retained / transplanted plants should be reported as soon as possible. The Contractor should be aware of any injured plants in order to monitor their recovery progress. Injuries to root and branches should be repaired immediately.
- 4.12 If trees are wounded or stressed during construction, they are more susceptible to insect and disease attack. Any wounds to the bark should be cleaned to sound wood by removing loose bark and wood, leaving a smooth edge around the wound. No application of a wound dressing is necessary.

### **Review of Residual Ecological Impacts**

- 4.13 Although plant species of conservation importance will be affected by the project, mitigation measures have been proposed to minimize the impact based on the hierarchy in EIAO-TM Annex 16:
- Avoidance, by reducing works area to minimum (the extent of the revised KNP road layout will take approximately full width of the existing road and roadside area, thereby avoiding conflicts with the locations of the existing *Keteleeria fortunei* and *Aquilaria sinensis* (Undersized Seedlings).

As a result of the revised road layout, it is expected that the existing *Keteleeria fortunei* and *Aquilaria sinensis* (Undersized Seedlings) can be preserved and transplantation/felling is not required except those dead tree)

- Minimization, by transplanting individuals of high survival rate

4.14 These measures will minimize the loss of plant species of conservation importance. Together with the fact that all species identified are common in Hong Kong, no adverse residual ecological impacts are expected from the Project with the proper implementation of mitigation measures.

## **5 IMPLEMENTATION SCHEDULE**

5.1 An Implementation Schedule (IS) has been prepared and included in **Appendix E** to summarize all the required mitigation measures need to be implemented for the Project.

## 6 CONCLUSION

- 6.1 To fulfill the requirement in Section 8.3.1 of the Environmental Monitoring and Audit (EM&A) Manual and Condition 2.13 & 2.14 of the EP, prior to the commencement of site clearance, detailed vegetation survey was conducted from 28 February to 6 March 2020, in order to confirm / update the exact locations, number and condition of individuals of any flora species of conservation interest within the works boundary, including Kong Nga Po Road.
- 6.2 During the vegetation survey, four plant species of conservation importance (i.e. Cycad-fern *Brainea insignis*, Fortune's Keteleeria *Keteleeria fortunei*, Ladies Tresses *Spiranthes sinensis*, Incense Tree *Aquilaria sinensis*) were recorded within the site boundary, including Kong Nga Po Road.
- 6.3 According to Section 9.7.1 of the EIA Report, direct impact on species of conservation importance should be minimized. Identified individuals should be labelled and fenced off on site for preservation. In case of unavoidable loss, mitigation measures such as transplantation should be implemented to minimise impact.
- 6.4 The works area has been refined in accordance with the Revised Layout Plan of Kong Nga Po Road to avoid the direct impact on the existing *Keteleeria fortunei* and *Aquilaria sinensis* (Undersized Seedlings) identified along Kong Nga Po Road near Police Dog Unit and Force Search Unit Training School would be preserved and protected on-site.
- 6.5 3 individuals of *Aquilaria sinensis*, all *Brainea insignis* and *Spiranthes sinensis* affected directly by the project are considered to be suitable for transplantation, provided that appropriate transplanting procedures are adopted, and post-plantation care is provided. The exact numbers to be transplanted are subject to the actual site conditions.
- 6.6 The above measures will minimize the loss of plant species of conservation importance. Together with the fact that all species identified are common in Hong Kong, no adverse residual ecological impacts are expected from the Project with the proper implementation of mitigation measures which concurs with the findings and recommendations from the approved EIA for the Project.

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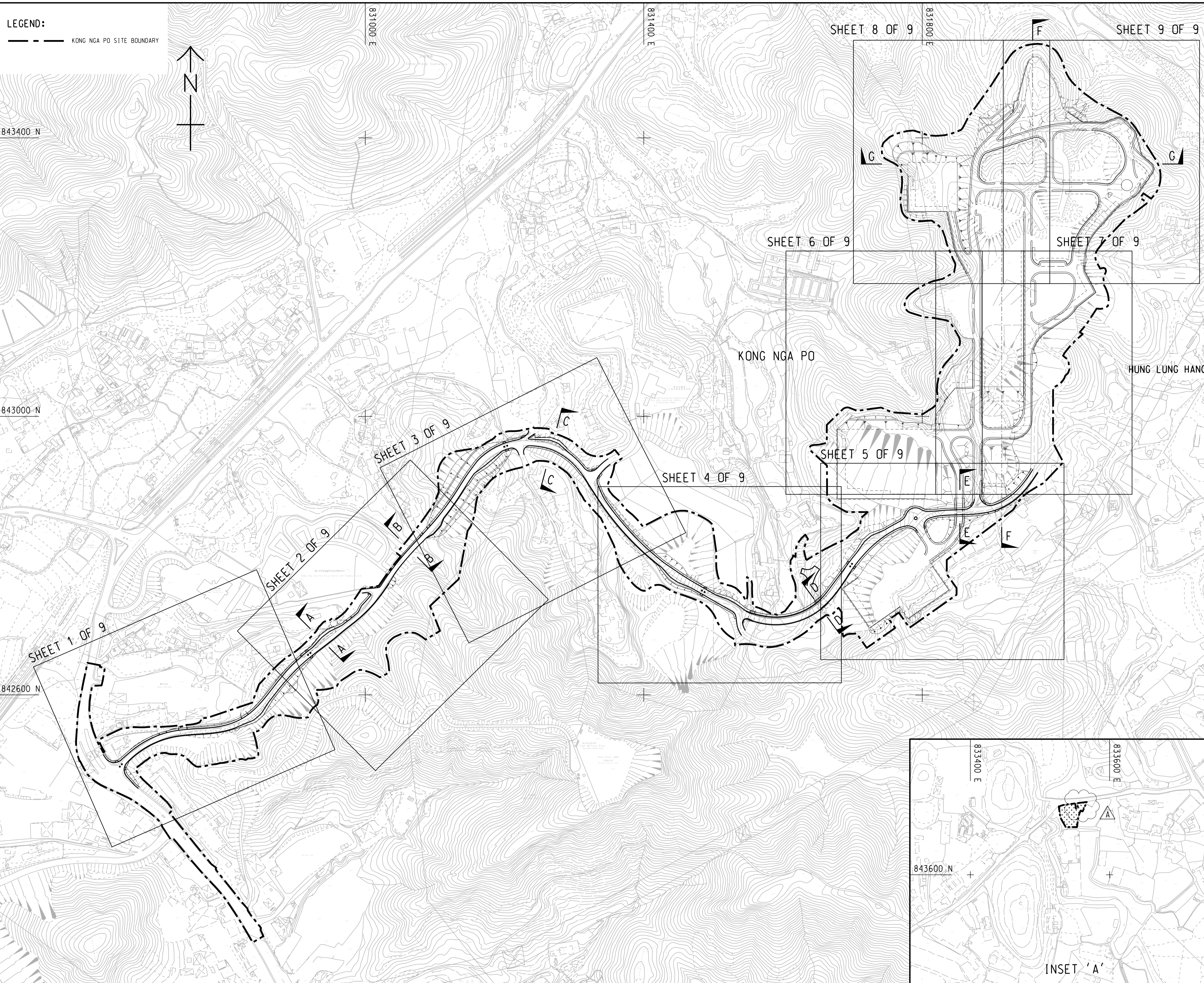
## **LIST OF DRAWINGS**

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

Plot File by: WingSan.Chan@aecom.com 02-July-2019  
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**AECOM**

**PROJECT**  
 項目  
**SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION**

**CONTRACT TITLE**  
 合約編號  
 SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO

**CLIENT**  
 業主  
 土木工程拓展署  
 Civil Engineering and Development Department

**CONSULTANT**  
 工程顧問公司  
 AECOM Asia Company Ltd.  
 www.aecom.com

**SUB-CONSULTANTS**  
 分判工程顧問公司

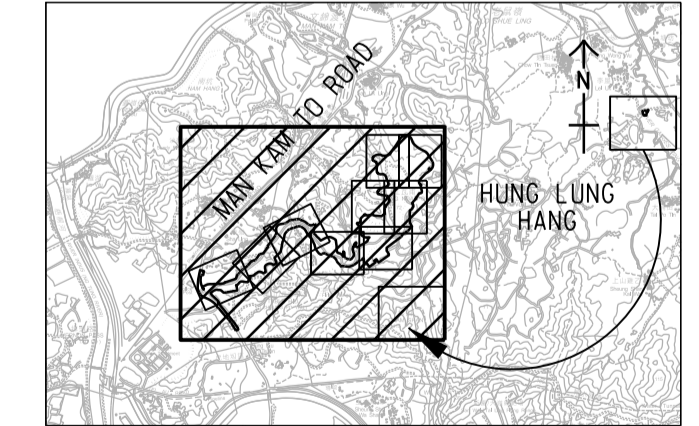
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 修訂

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修訂	日期	內容摘要	校核
A	JUL. 19	TENDER ADDENDUM NO.1	SCWC
-	JUN. 19	TENDER DRAWING	SCWC

**STATUS**  
 階段

**SCALE**  
 比例  
 A1 1 : 2500

**DIMENSION UNIT**  
 尺寸單位  
 A1 1 : 50000



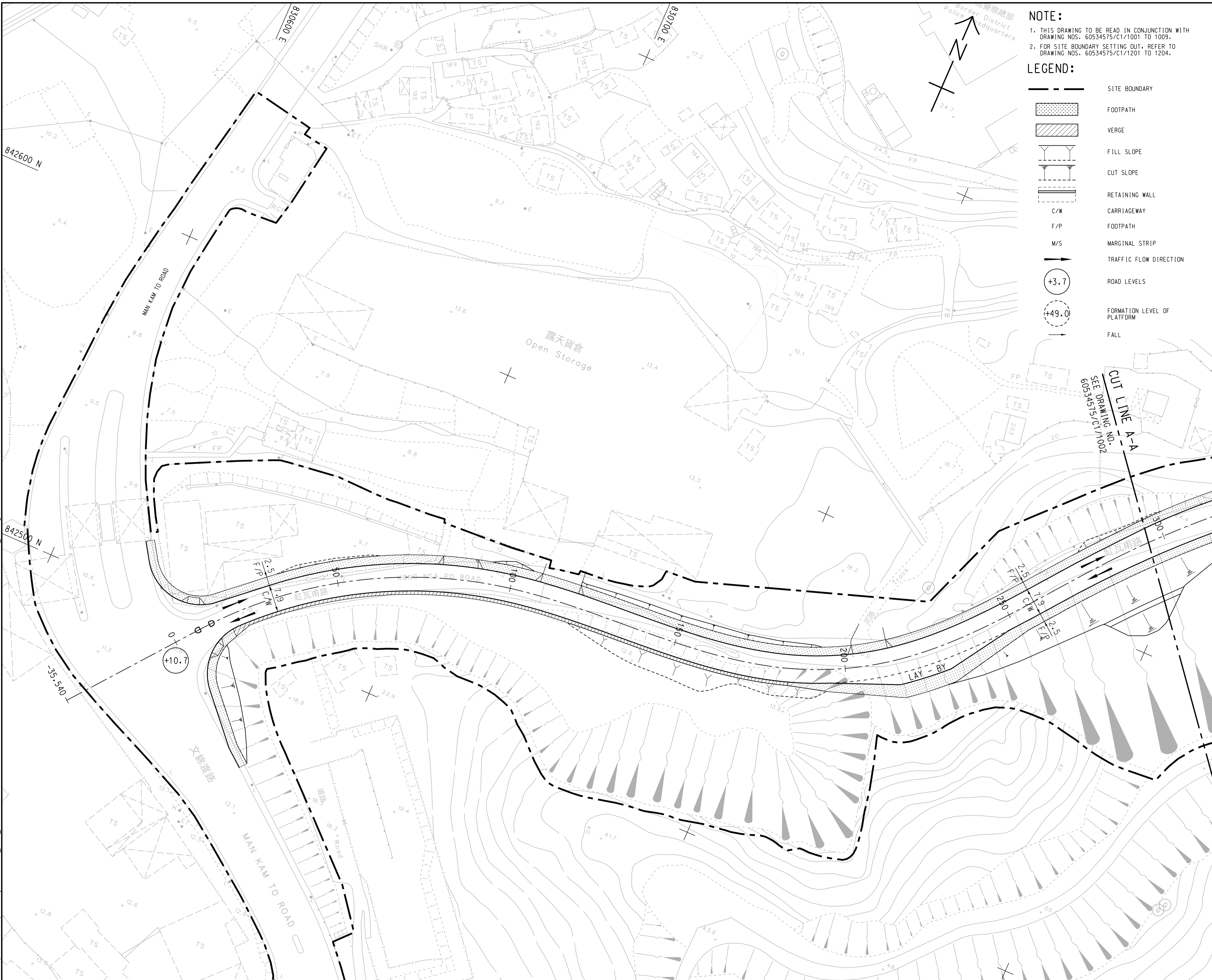
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 項目編號  
 60534575

**CONTRACT NO.**  
 合約編號  
 ND/2018/01

**SHEET TITLE**  
 圖紙名稱  
 KEY PLAN AND LOCATION PLAN

**SHEET NUMBER**  
 圖紙編號  
 60534575/C1/1000A

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**NOTE:**  
 1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60534575/C1/1001 TO 1009.  
 2. FOR SITE BOUNDARY SETTING OUT, REFER TO DRAWING NOS. 60534575/C1/1201 TO 1204.

- LEGEND:**
- SITE BOUNDARY
  - FOOTPATH
  - VERGE
  - FILL SLOPE
  - CUT SLOPE
  - RETAINING WALL
  - C/W CARRIAGEWAY
  - F/P FOOTPATH
  - M/S MARGINAL STRIP
  - TRAFFIC FLOW DIRECTION
  - ROAD LEVELS
  - FORMATION LEVEL OF PLATFORM
  - FALL

**AECOM**

**PROJECT**  
 項目  
**SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION**

**CONTRACT TITLE**  
 SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO

**CLIENT**  
 業主  
 土木工程拓展署  
 Civil Engineering and Development Department

**CONSULTANT**  
 工程顧問公司  
 AECOM Asia Company Ltd.  
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**ISSUE/REVISION**  
 修訂

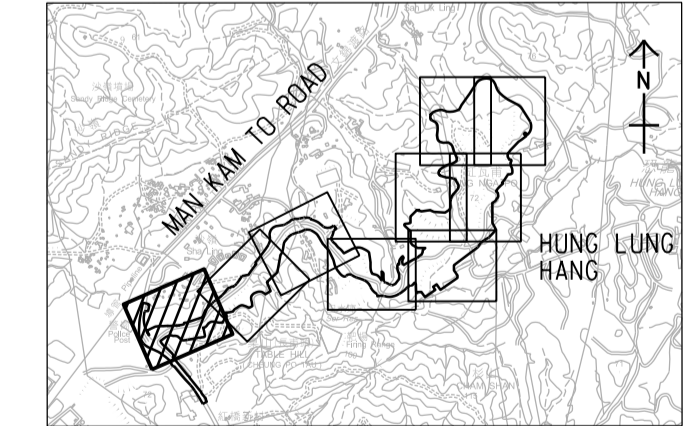
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-	JUN. 19	TENDER DRAWING	SCWC

**STATUS**  
 階段

**SCALE**  
 比例  
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**DIMENSION UNIT**  
 尺寸單位  
 METRES

**KEY PLAN** A1 1:30000  
 索引圖



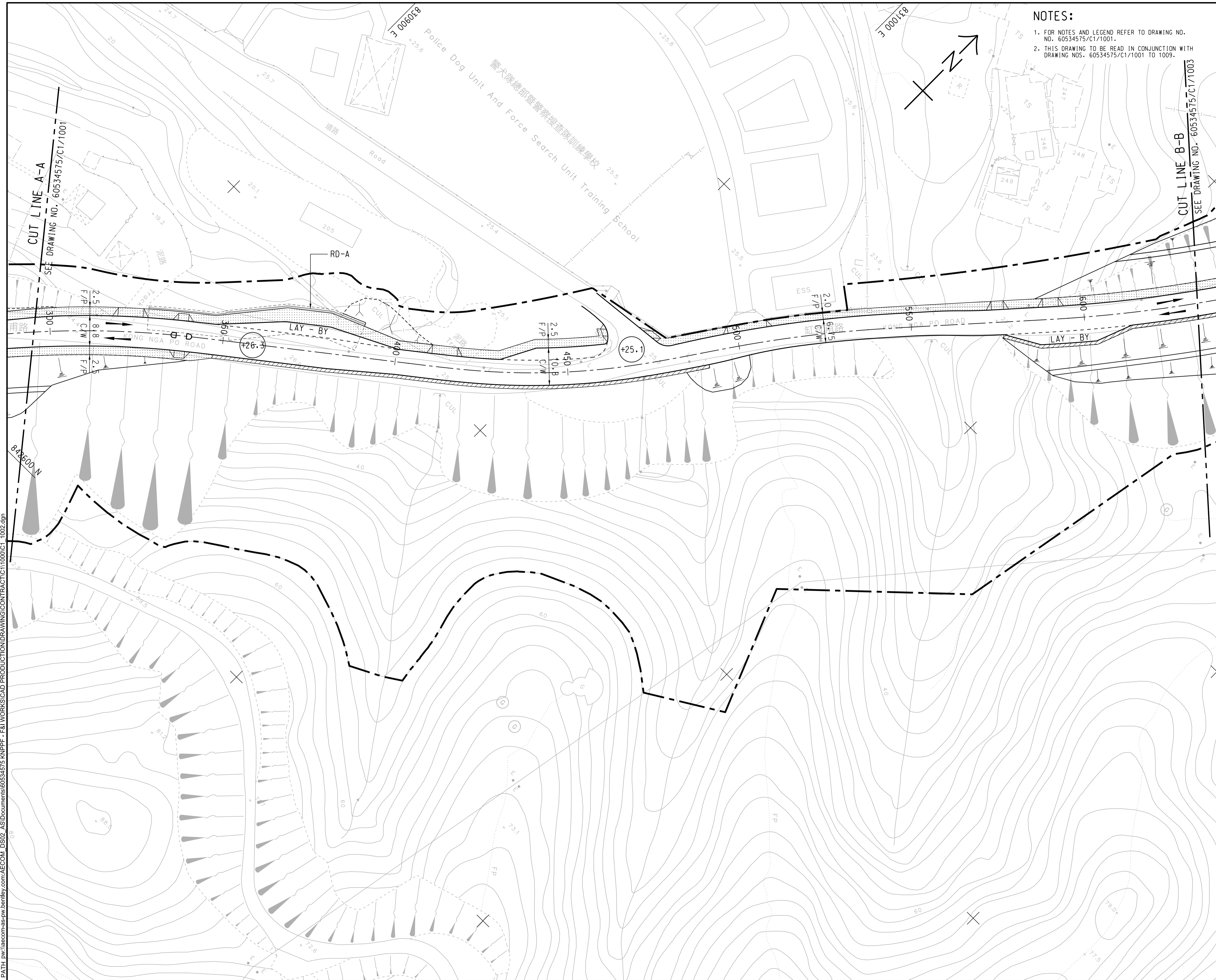
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 項目編號  
 60534575

**CONTRACT NO.**  
 合約編號  
 ND/2018/01

**SHEET TITLE**  
 圖紙名稱  
 GENERAL LAYOUT

**SHEET NUMBER**  
 圖紙編號  
 60534575/C1/1001

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**AECOM**

**PROJECT**  
 項目  
**SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION**

**CONTRACT TITLE**  
 合約編號  
**SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO**

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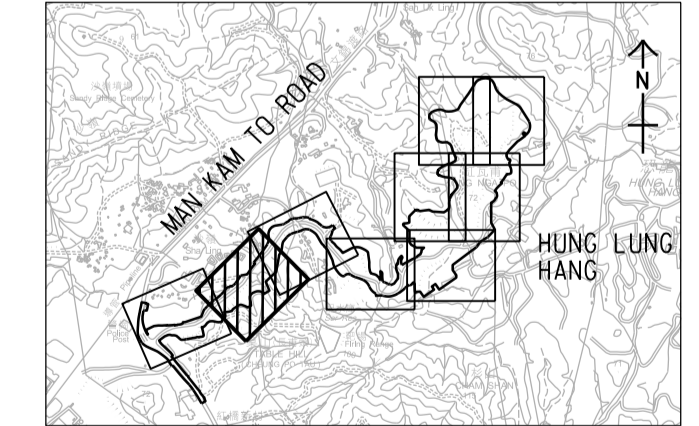
**ISSUE/REVISION**  
 修訂

I/R	DATE	DESCRIPTION	CHK.
- JUN. 19		TENDER DRAWING	SCWC

**STATUS**  
 階段

**SCALE**  
 比例  
 A1 1 : 500

**DIMENSION UNIT**  
 尺寸單位  
 METRES



**PROJECT NO.**  
 項目編號  
 60534575

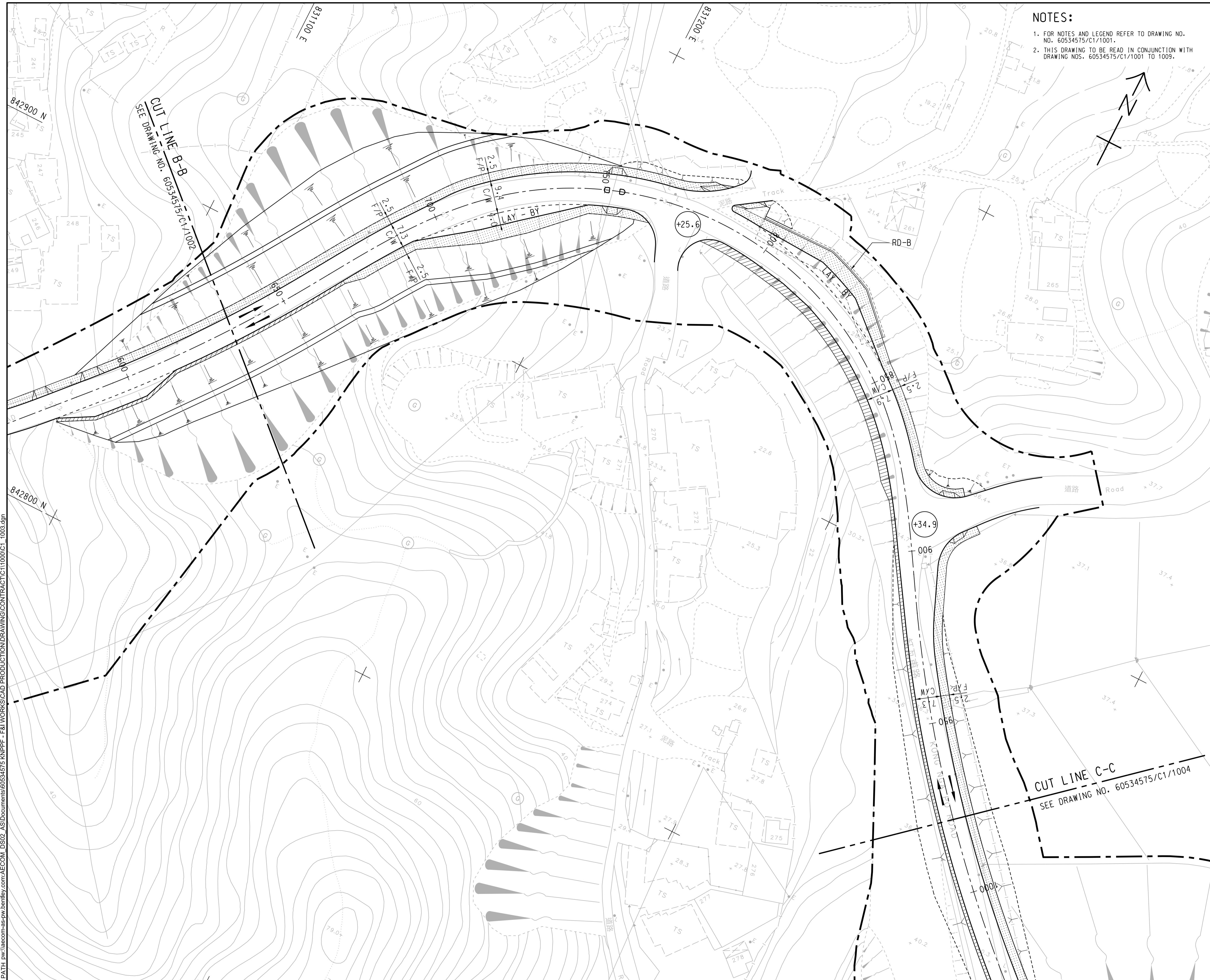
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 ND/2018/01

**SHEET TITLE**  
 圖紙名稱  
**GENERAL LAYOUT**

**SHEET NUMBER**  
 圖紙編號  
 60534575/C1/1002

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 Project Management Initials: Designer: YHT Checked: SCWC Approved: RCYK ISO A1 594mm x 841mm  
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**AECOM**

**PROJECT**  
 項目

**SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION**

**CONTRACT TITLE**  
 SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO

**CLIENT**  
 業主

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

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**ISSUE/REVISION**  
 修訂

I/R	DATE	DESCRIPTION	CHK.
-	JUN. 19	TENDER DRAWING	SCWC

**STATUS**  
 階段

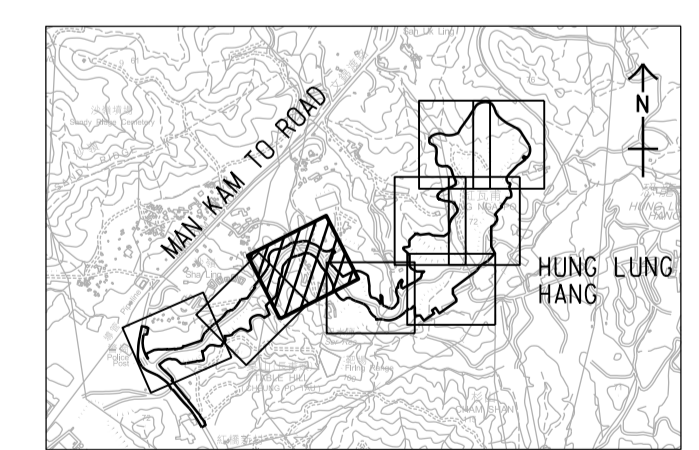
**SCALE**  
 比例

A1 1: 500

**DIMENSION UNIT**  
 尺寸單位

METRES

**KEY PLAN** A1 1: 30000  
 索引圖



**PROJECT NO.**  
 項目編號

60534575

**CONTRACT NO.**  
 合約編號

ND/2018/01

**SHEET TITLE**  
 圖紙名稱

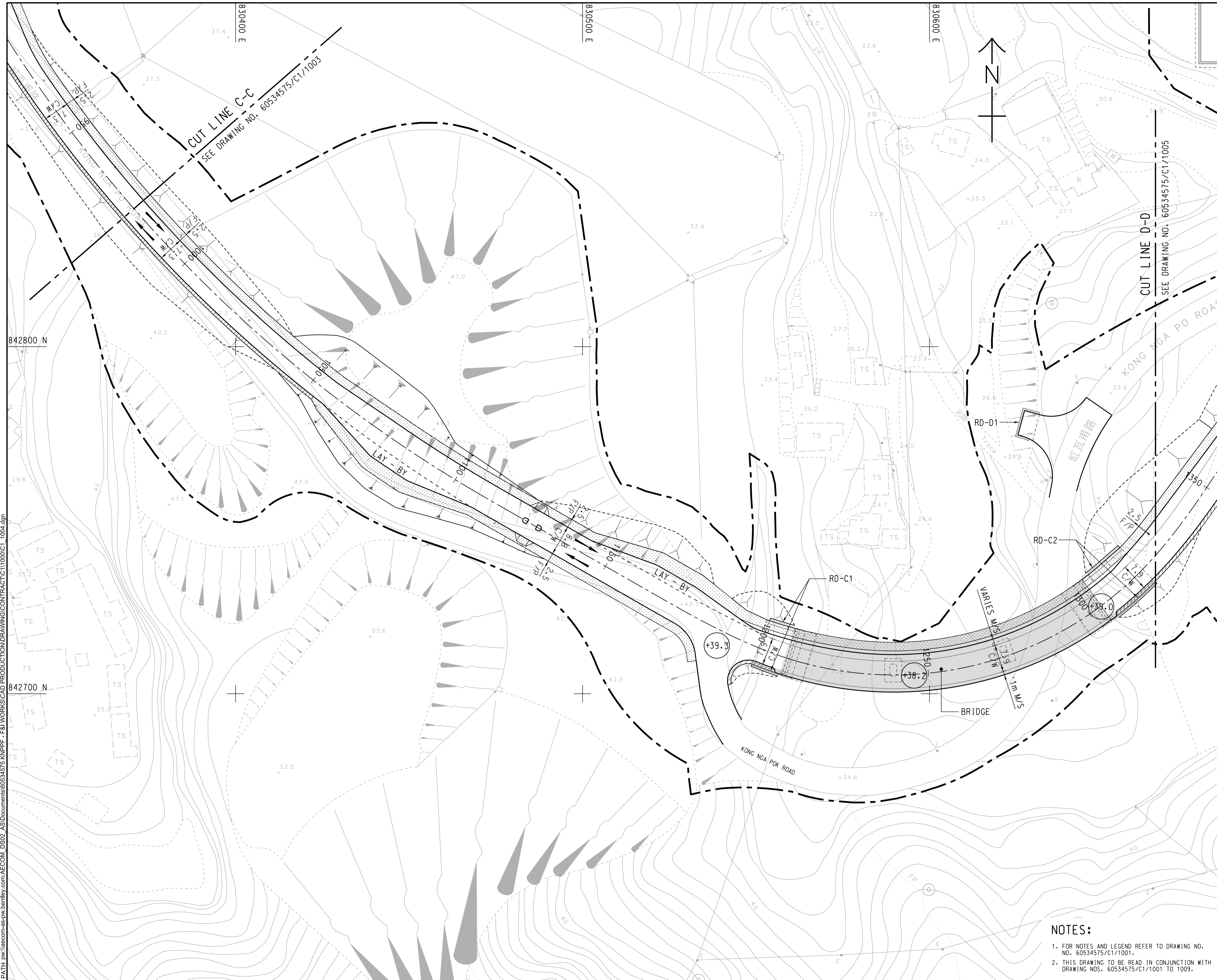
GENERAL LAYOUT

**SHEET NUMBER**  
 圖紙編號

60534575/C1/1003

SHEET 3 OF 9

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 830400 E 830500 E 830600 E



**AECOM**

PROJECT

SITE FORMATION AND  
INFRASTRUCTURE WORKS  
FOR POLICE FACILITIES IN  
KONG NGA PO - DESIGN  
AND CONSTRUCTION

CONTRACT TITLE

SITE FORMATION AND INFRASTRUCTURE  
WORKS FOR POLICE FACILITIES IN  
KONG NGA PO

CLIENT

**CEDD** 土木工程拓展署  
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ISSUE/REVISION

I/R	DATE	DESCRIPTION	CHK.
-	JUN. 19	TENDER DRAWING	SCWC

STATUS

擬定

SCALE

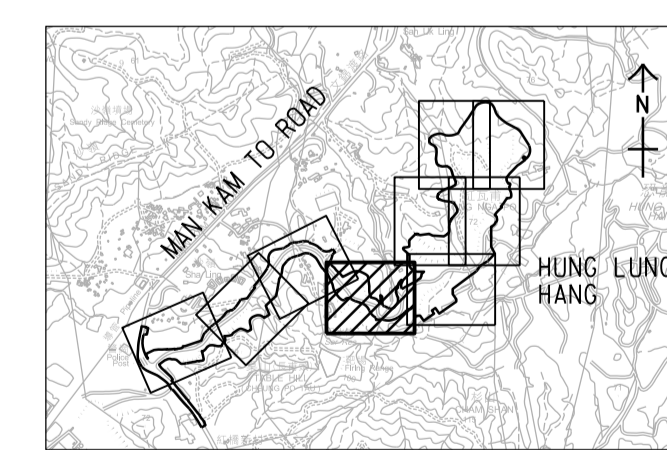
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DIMENSION UNIT

METRES

KEY PLAN

A1 1:30000



PROJECT NO.

60534575

CONTRACT NO.

ND/2018/01

SHEET TITLE

GENERAL LAYOUT

SHEET NUMBER

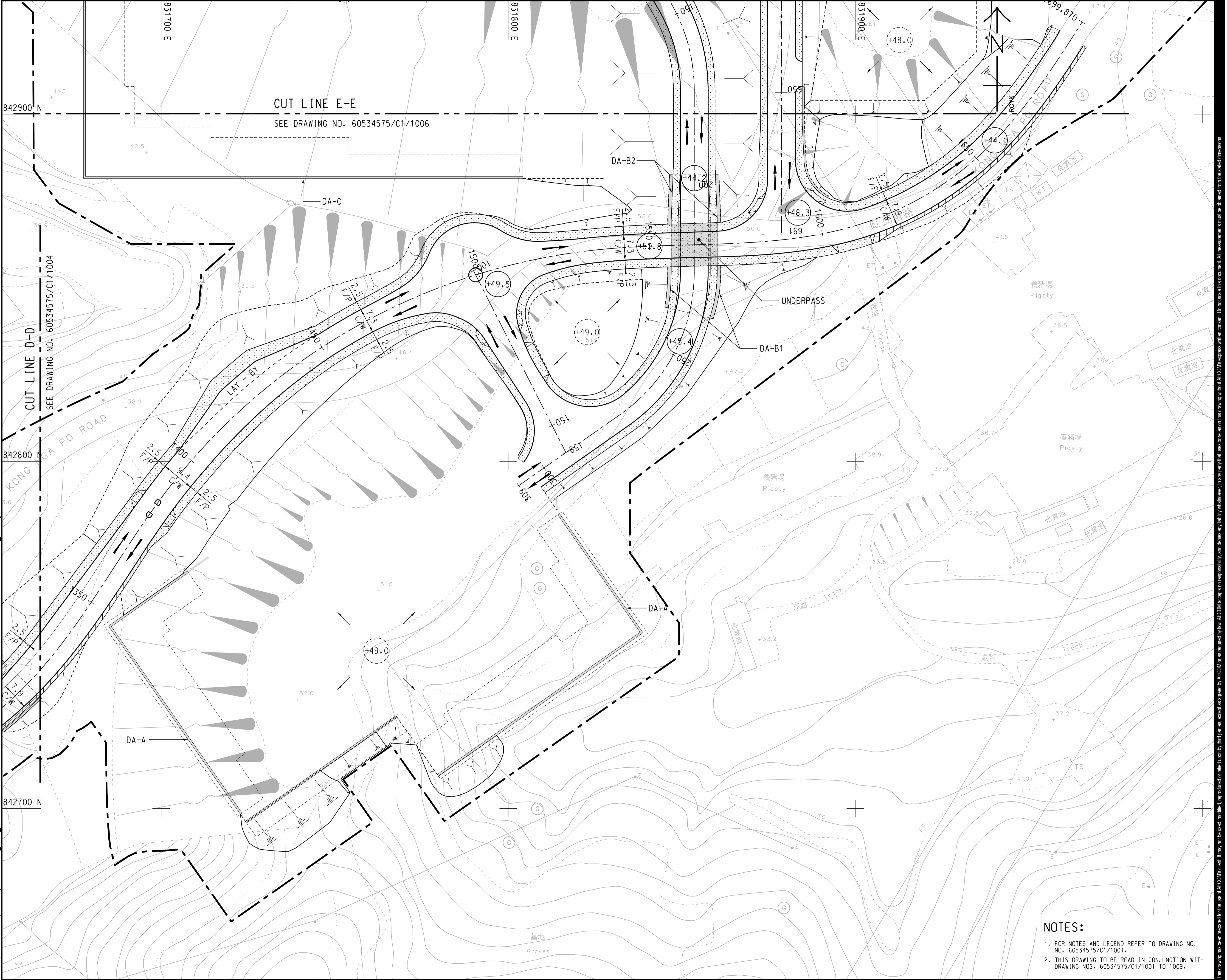
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 Project Management Initials: Designer: YHT Checked: SCWC Approved: RCYK ISO A1 594mm x 841mm



**PROJECT**  
 項目  
**SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION**

**CONTRACT TITLE**  
 合約名稱  
**SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO**

**CLIENT**  
 業主  
 **土木工程拓展署**  
 Civil Engineering and Development Department

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**ISSUE/REVISION**  
 修訂

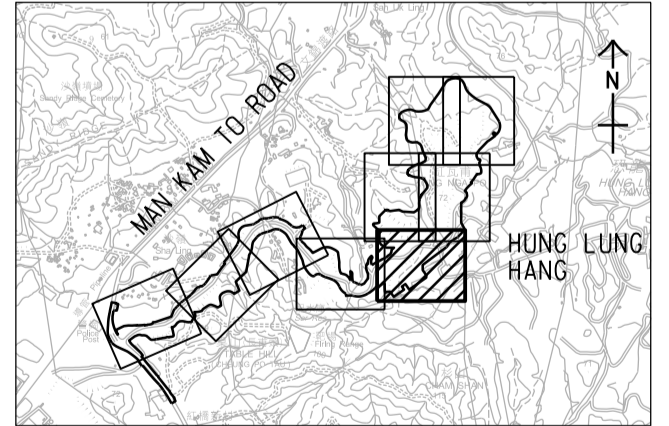
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-	JUN. 19	TENDER DRAWING	SCWC

**STATUS**  
 階段

**SCALE**  
 比例  
 A1 1: 500

**DIMENSION UNIT**  
 尺寸單位  
 METRES

**KEY PLAN** A1 1: 30000  
 索引圖



**PROJECT NO.**  
 項目編號  
 60534575

**CONTRACT NO.**  
 合約編號  
 ND/2018/01

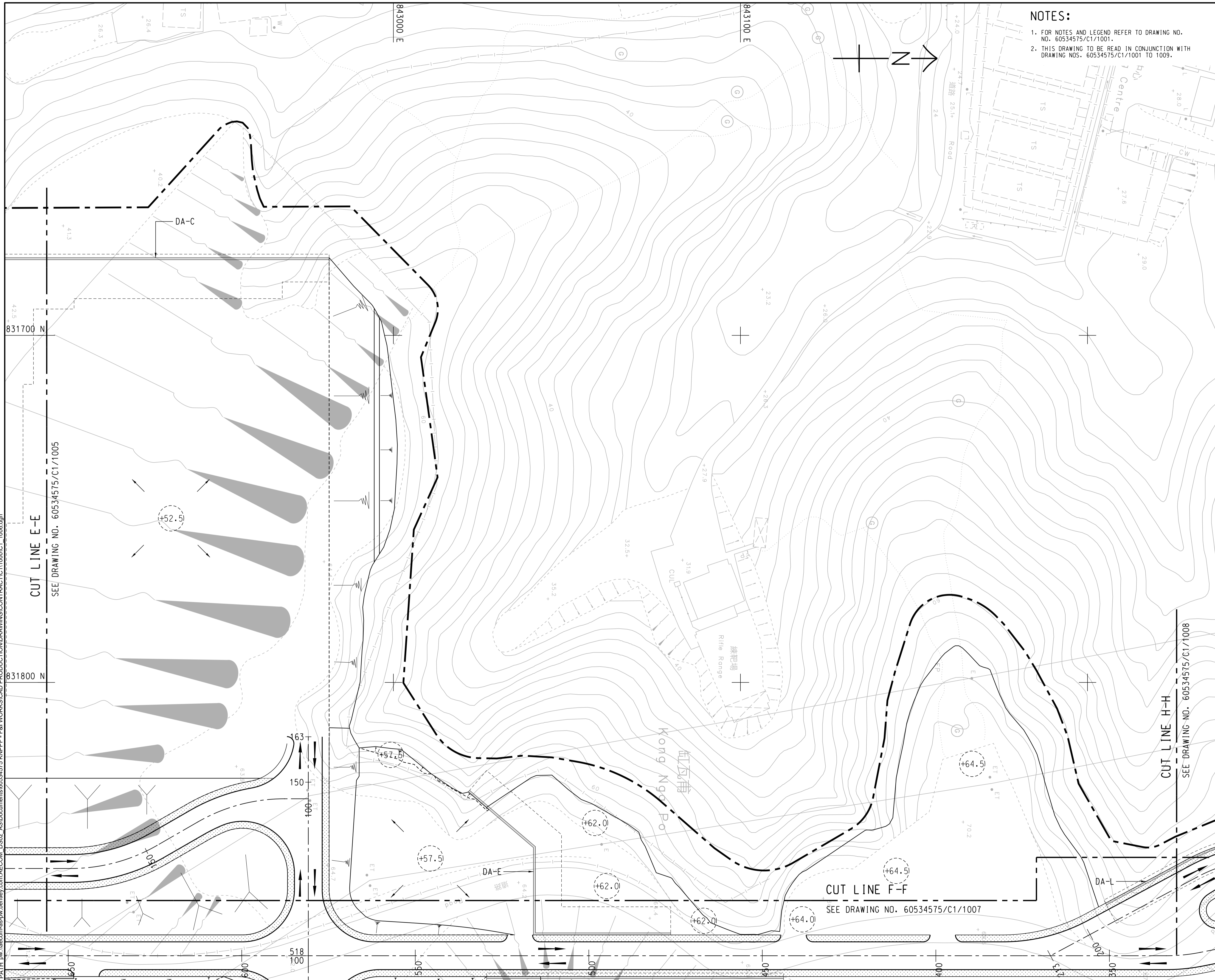
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 圖紙名稱  
 GENERAL LAYOUT

**SHEET NUMBER**  
 圖紙編號  
 60534575/C1/1005

- NOTES:**
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 ISO A1 594mm x 841mm



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- THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60534575/C1/1001 TO 1009.

**AECOM**

**PROJECT**  
 SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION

**CONTRACT TITLE**  
 SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO

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

**CONSULTANT**  
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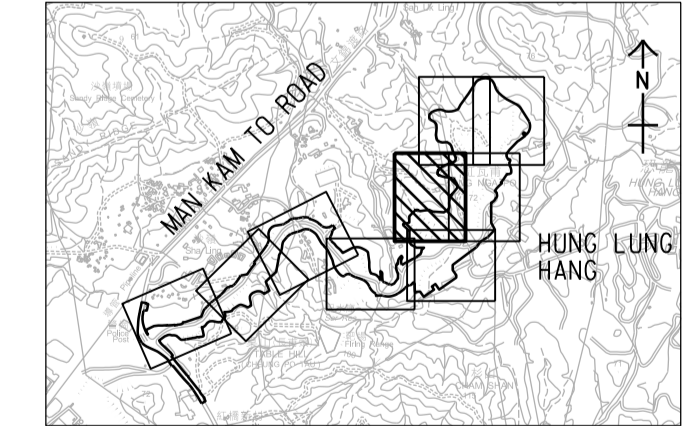
**ISSUE/REVISION**

I/R	DATE	DESCRIPTION	CHK.
-	JUN. 19	TENDER DRAWING	SCWC

**STATUS**  
 階段

**SCALE**  
 比例  
 A1 1:500

**DIMENSION UNIT**  
 尺寸單位  
 METRES



**PROJECT NO.**  
 項目編號  
 60534575

**CONTRACT NO.**  
 合約編號  
 ND/2018/01

**SHEET TITLE**  
 圖紙名稱  
 GENERAL LAYOUT

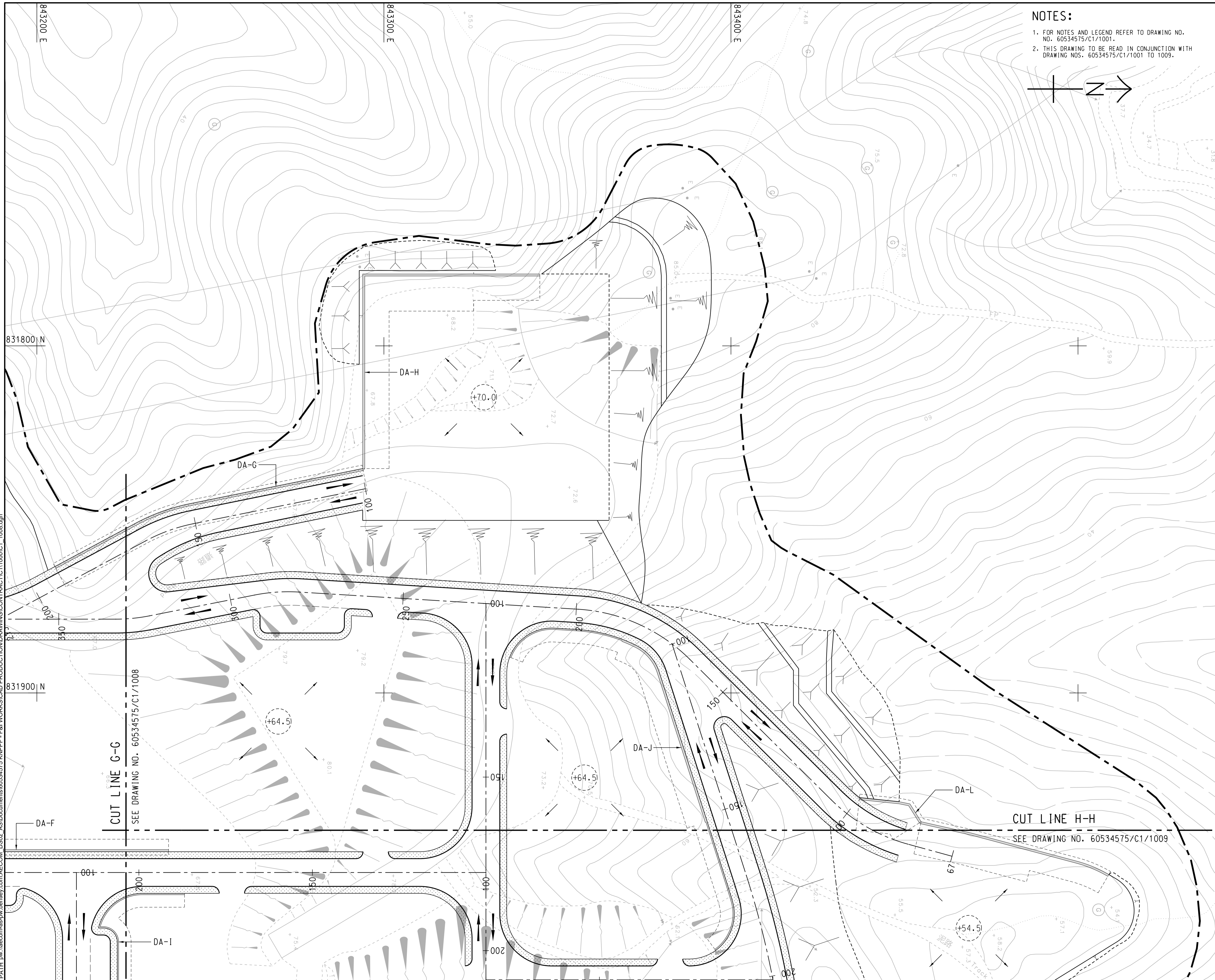
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 60534575/C1/1006

SHEET 6 OF 9

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**PROJECT**  
 項目  
**SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION**

**CONTRACT TITLE**  
 SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO

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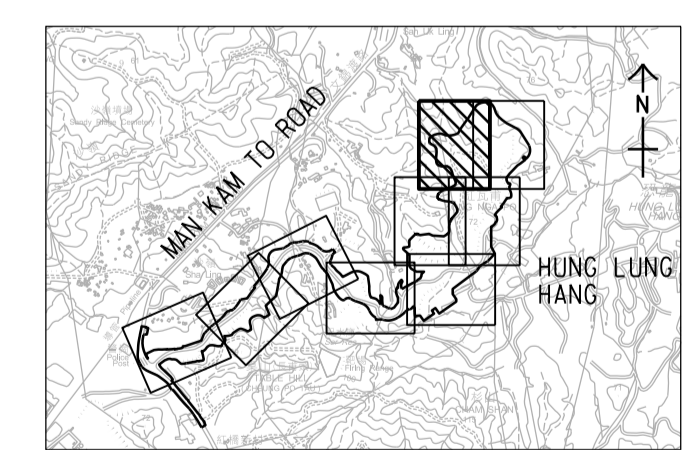
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I/R	DATE	DESCRIPTION	CHK.
-	JUN. 19	TENDER DRAWING	SCWC

**STATUS**  
 階段

**SCALE**  
 比例  
 A1 1:500

**DIMENSION UNIT**  
 尺寸單位  
 METRES



**PROJECT NO.**  
 項目編號  
 60534575

**CONTRACT NO.**  
 合約編號  
 ND/2018/01

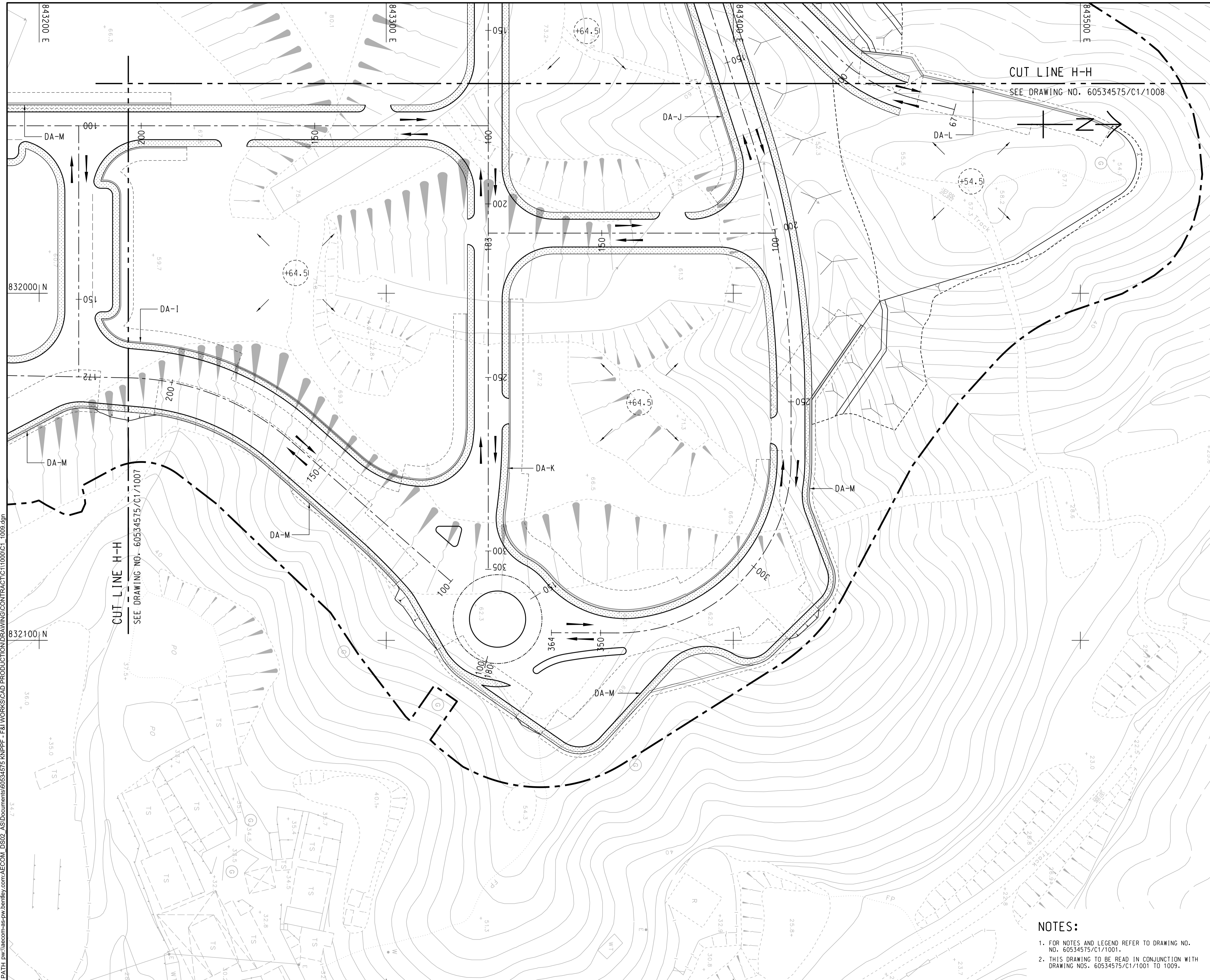
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 圖紙名稱  
 GENERAL LAYOUT

**SHEET NUMBER**  
 圖紙編號  
 60534575/C1/1008

SHEET 8 OF 9

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



**PROJECT**

項目  
**SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION**

**CONTRACT TITLE**

合約編號  
**SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO**

**CLIENT**

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**土木工程拓展署**  
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**ISSUE/REVISION**

I/R	DATE	DESCRIPTION	CHK.
-	JUN. 19	TENDER DRAWING	SCWC

**STATUS**

階段

**SCALE**

比例

A1 1: 500

**DIMENSION UNIT**

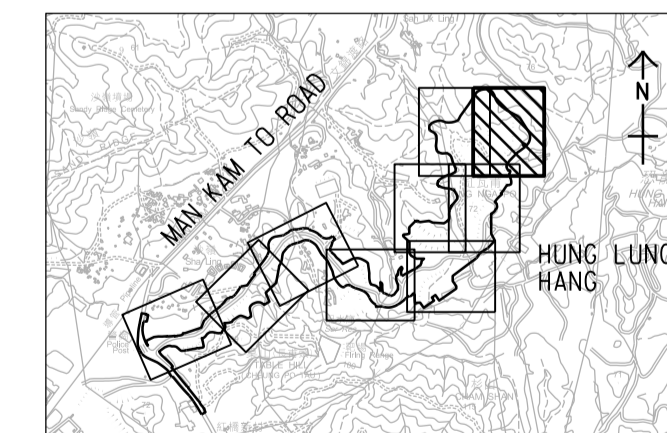
尺寸單位

METRES

**KEY PLAN**

索引圖

A1 1: 30000



**PROJECT NO.**

項目編號

60534575

**CONTRACT NO.**

合約編號

ND/2018/01

**SHEET TITLE**

圖紙名稱

GENERAL LAYOUT

**SHEET NUMBER**

圖紙編號

60534575/C1/1009

SHEET 9 OF 9

**NOTES:**

- FOR NOTES AND LEGEND REFER TO DRAWING NO. NO. 60534575/C1/1001.
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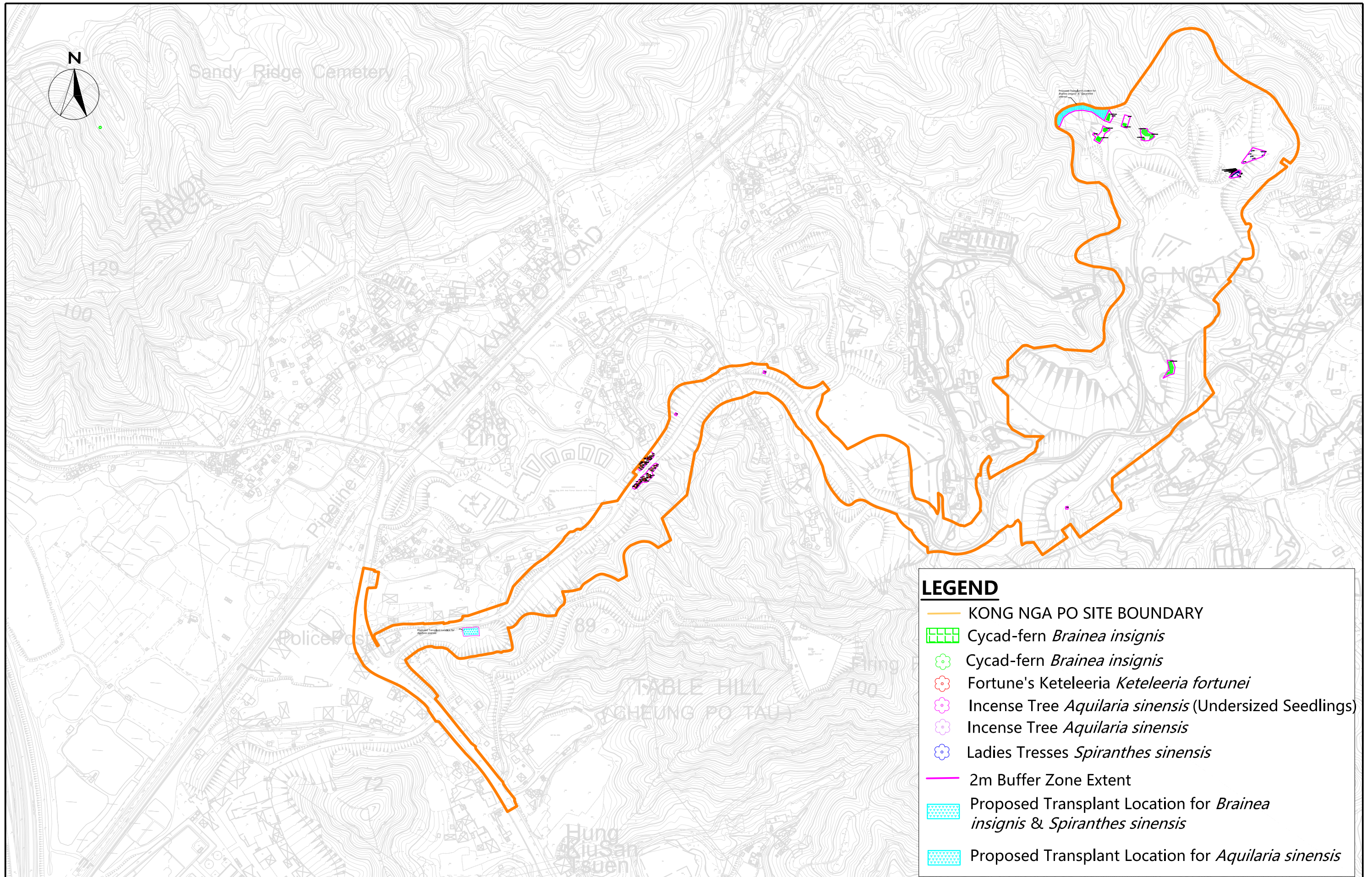
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## FIGURES

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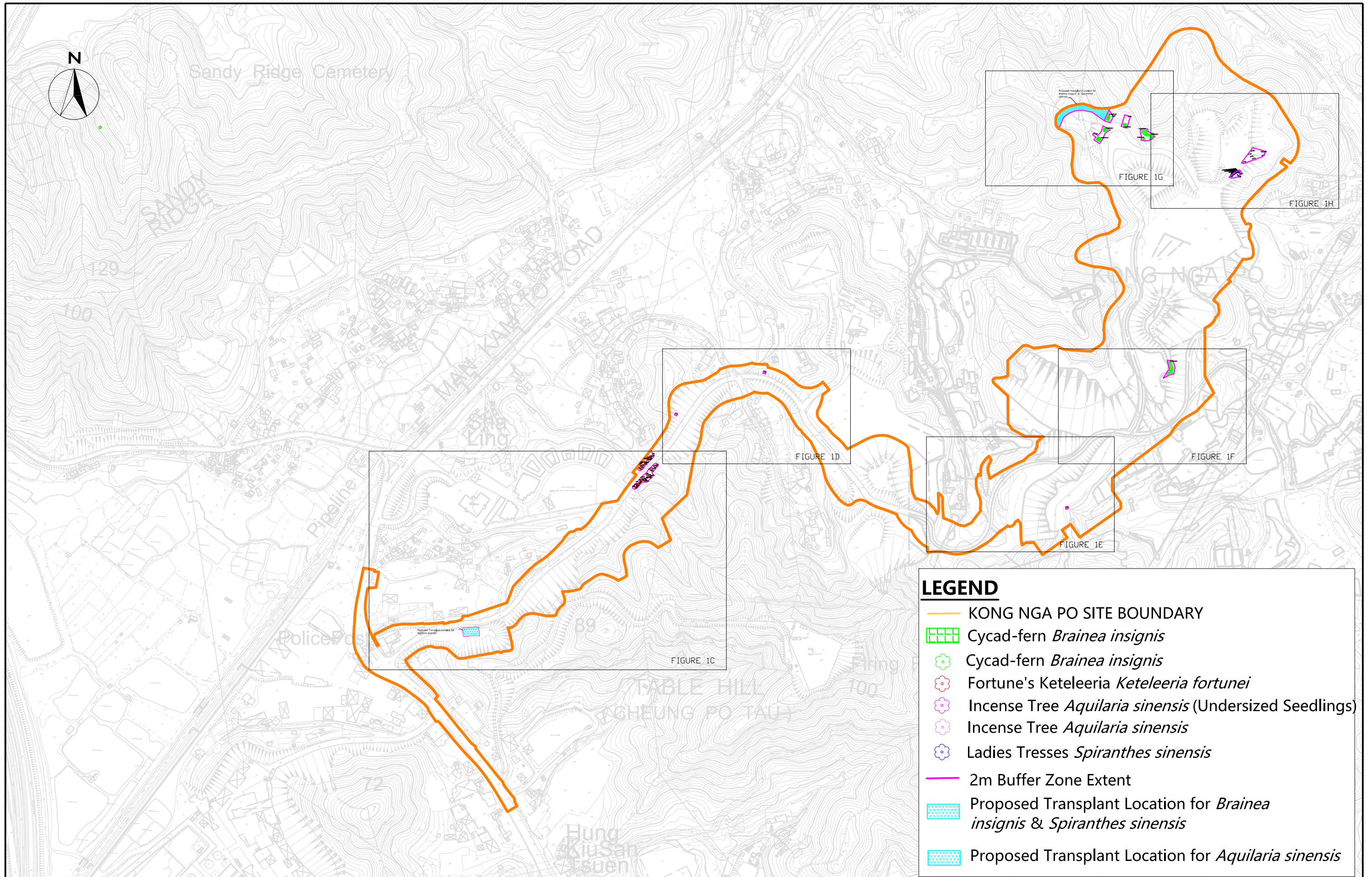
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Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po  
 Location of Flora Species of Conservation Importance

**WELLAB**

SCALE	A3 @1:40000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
JOB No.	WMA20001	FIGURE No.	1A
		REV	—

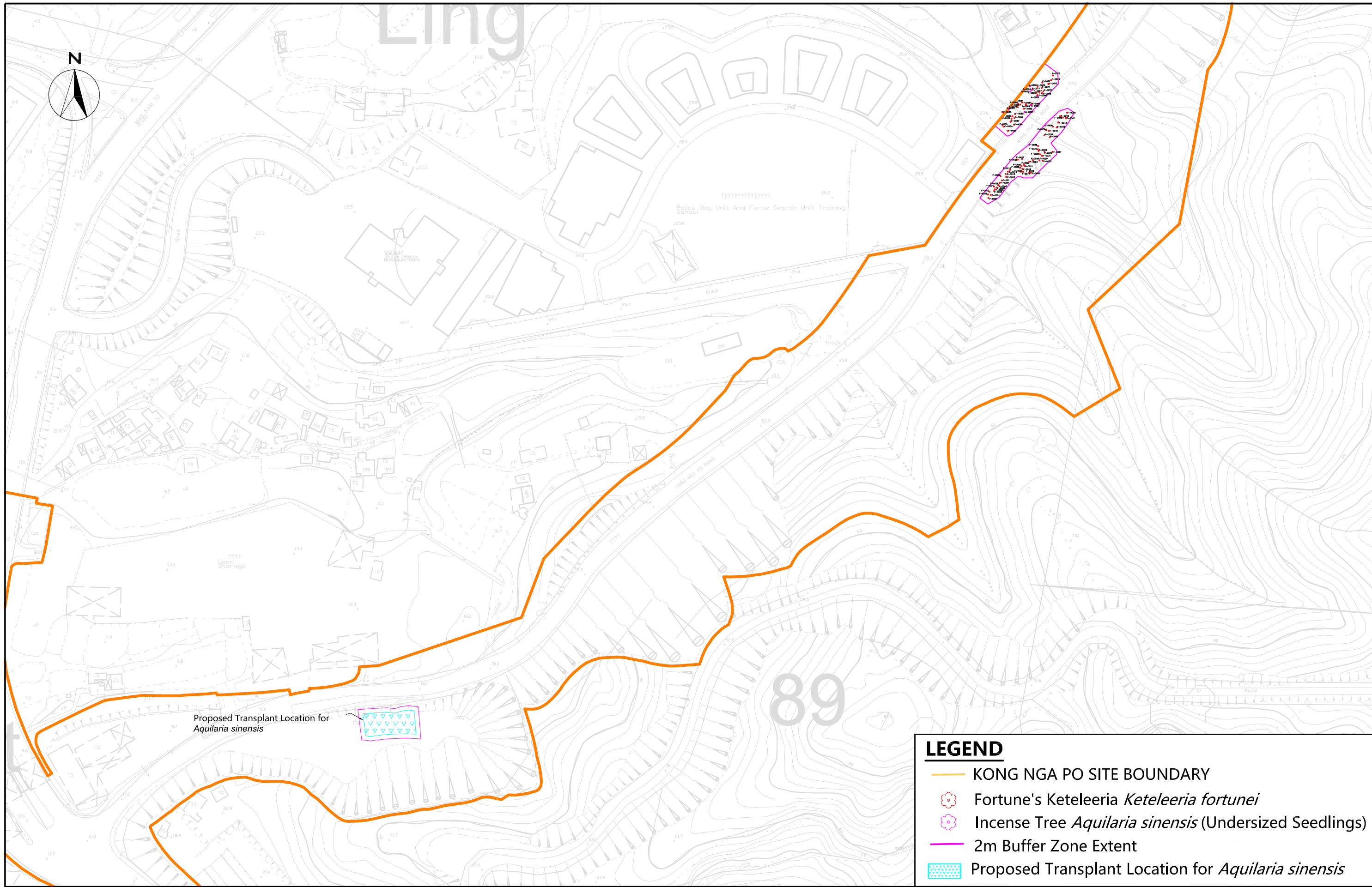


**LEGEND**

- KONG NGA PO SITE BOUNDARY
- Cycad-fern *Brainea insignis*
- Cycad-fern *Brainea insignis*
- Fortune's Keteleeria *Keteleeria fortunei*
- Incense Tree *Aquilaria sinensis* (Undersized Seedlings)
- Incense Tree *Aquilaria sinensis*
- Ladies Tresses *Spiranthes sinensis*
- 2m Buffer Zone Extent
- Proposed Transplant Location for *Brainea insignis* & *Spiranthes sinensis*
- Proposed Transplant Location for *Aquilaria sinensis*

Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po  
 Location of Flora Species of Conservation Importance

SCALE	A3 @1:40000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
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		REV	—

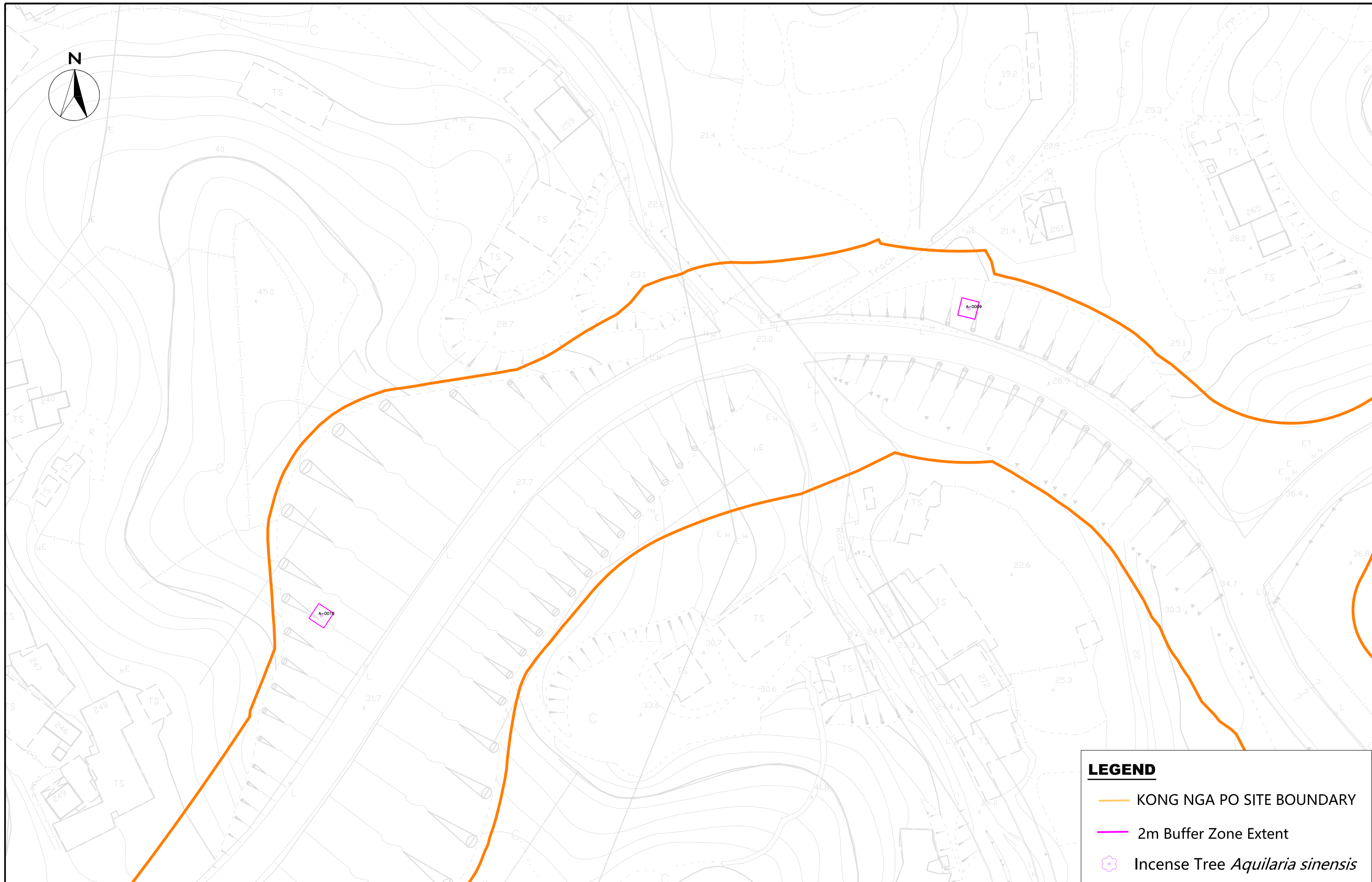


LEGEND			
	KONG NGA PO SITE BOUNDARY		Fortune's Keteleeria <i>Keteleeria fortunei</i>
	Incense Tree <i>Aquilaria sinensis</i> (Undersized Seedlings)		2m Buffer Zone Extent
	Proposed Transplant Location for <i>Aquilaria sinensis</i>		



Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po  
 Location of Fortune's Keteleeria *Keteleeria fortunei* & Incense Tree *Aquilaria sinensis* (Undersized Seedlings)

SCALE	A3 @1:10000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
JOB No.	WMA20001	DRAWING No.	1C
		REV	-

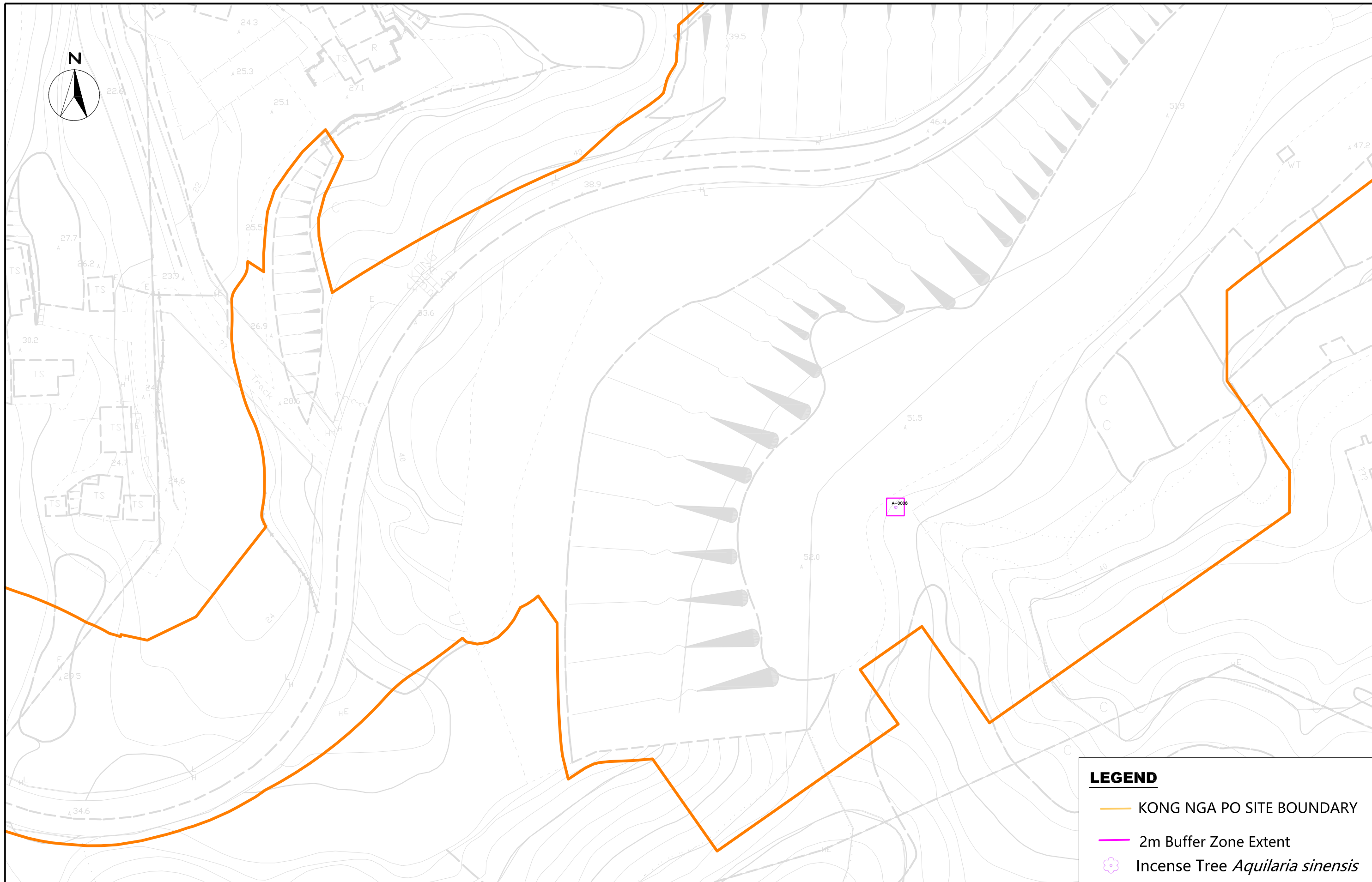


<b>LEGEND</b>			
	KONG NGA PO SITE BOUNDARY		2m Buffer Zone Extent
	Incense Tree <i>Aquilaria sinensis</i>		



Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po  
 Location of Incense Tree *Aquilaria sinensis*

SCALE	A3 @1:2000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
JOB No.	WMA20001	DRAWING No.	1D
		REV	-



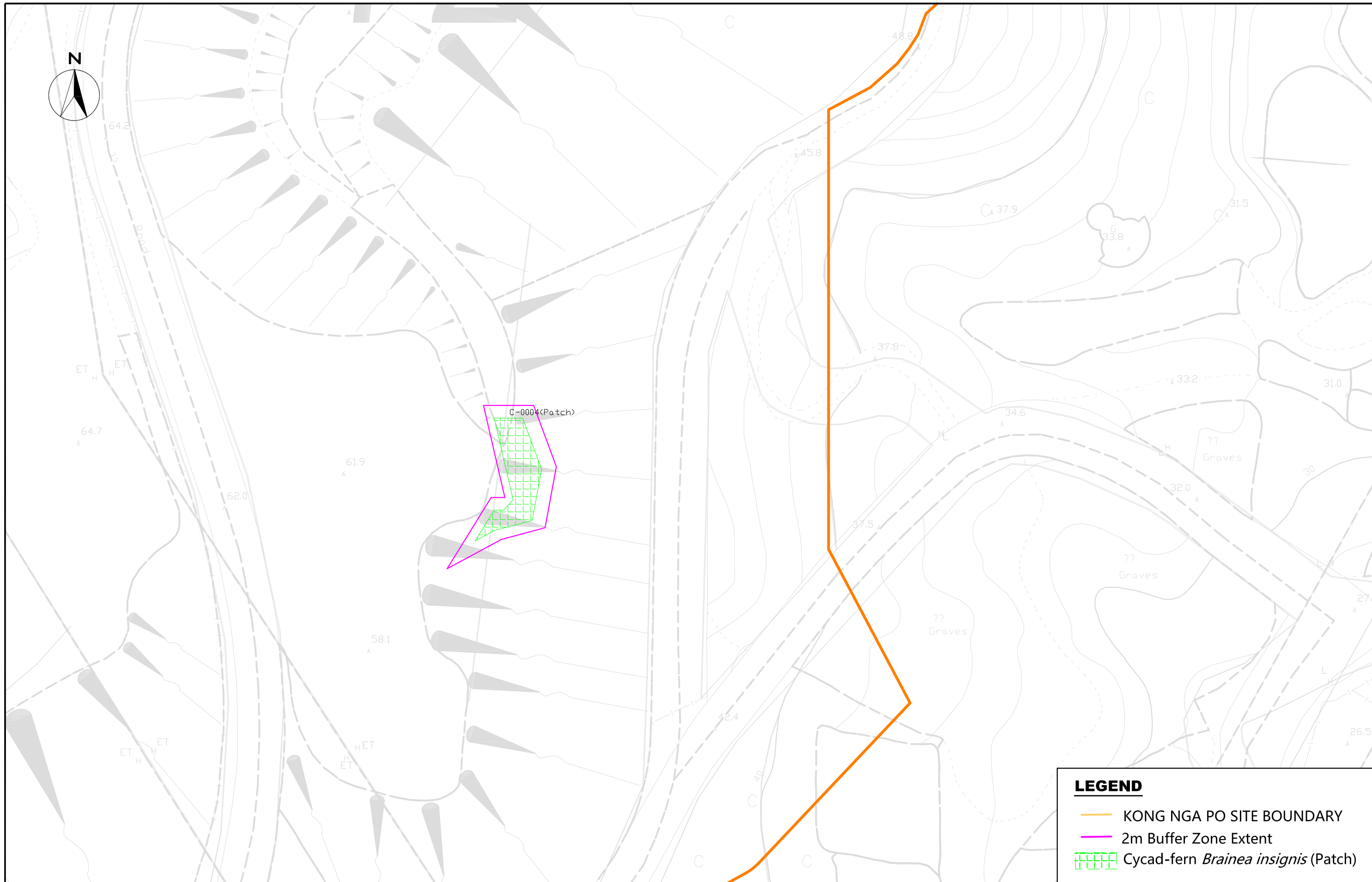
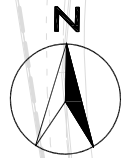
**LEGEND**




- KONG NGA PO SITE BOUNDARY
- 2m Buffer Zone Extent
- Incense Tree *Aquilaria sinensis*



Service Contract No. NDO 07/2019 Environmental Team for Site  
 Formation and Infrastructure Works for Police Facilities in Kong Nga Po  
 Location of Incense Tree *Aquilaria sinensis*

SCALE	A3 @1:2000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
JOB No.	WMA20001	DRAWING No.	1E
		REV	—

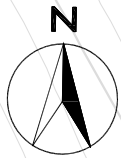


<b>LEGEND</b>			
	KONG NGA PO SITE BOUNDARY		2m Buffer Zone Extent
	Cycad-fern <i>Brainea insignis</i> (Patch)		

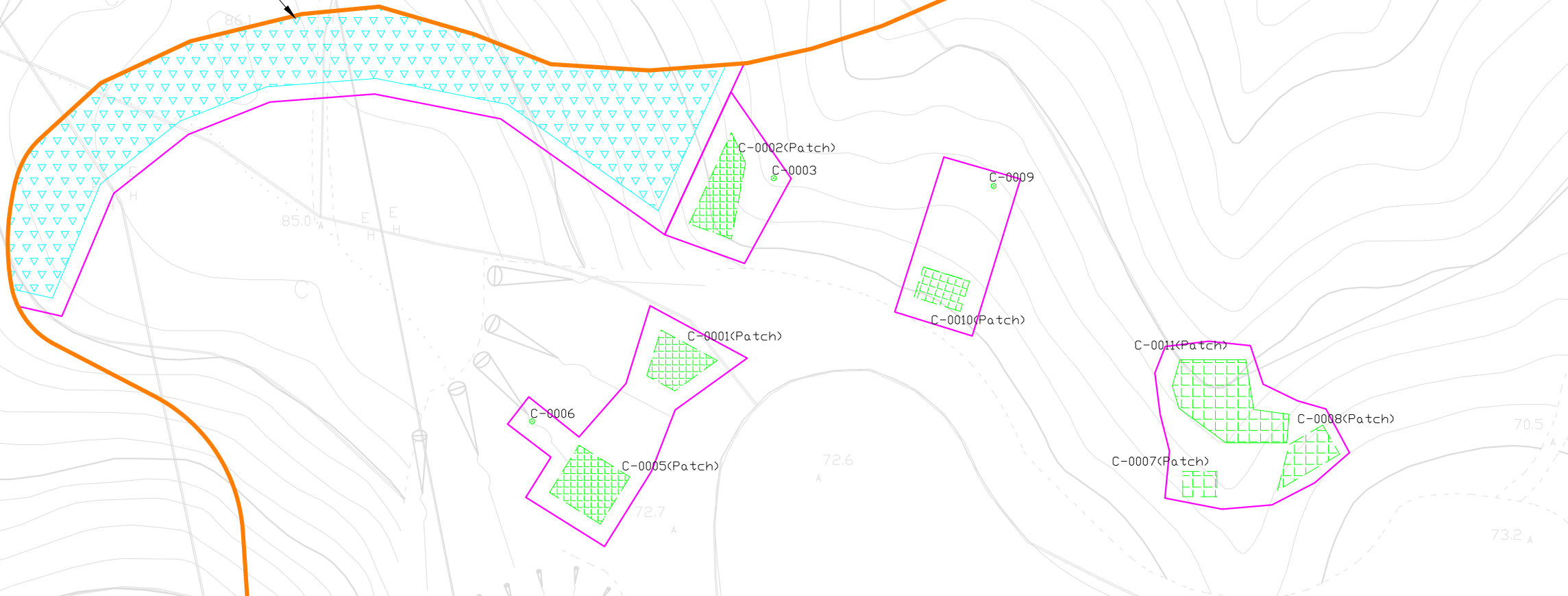


Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po  
Location of Cycad-fern *Brainea insignis*

SCALE	A3 @1:4000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
JOB No.	WMA20001	DRAWING No.	1F
		REV	-



Proposed Transplant Location for  
*Brainea insignis* & *Spiranthes*  
*sinensis*

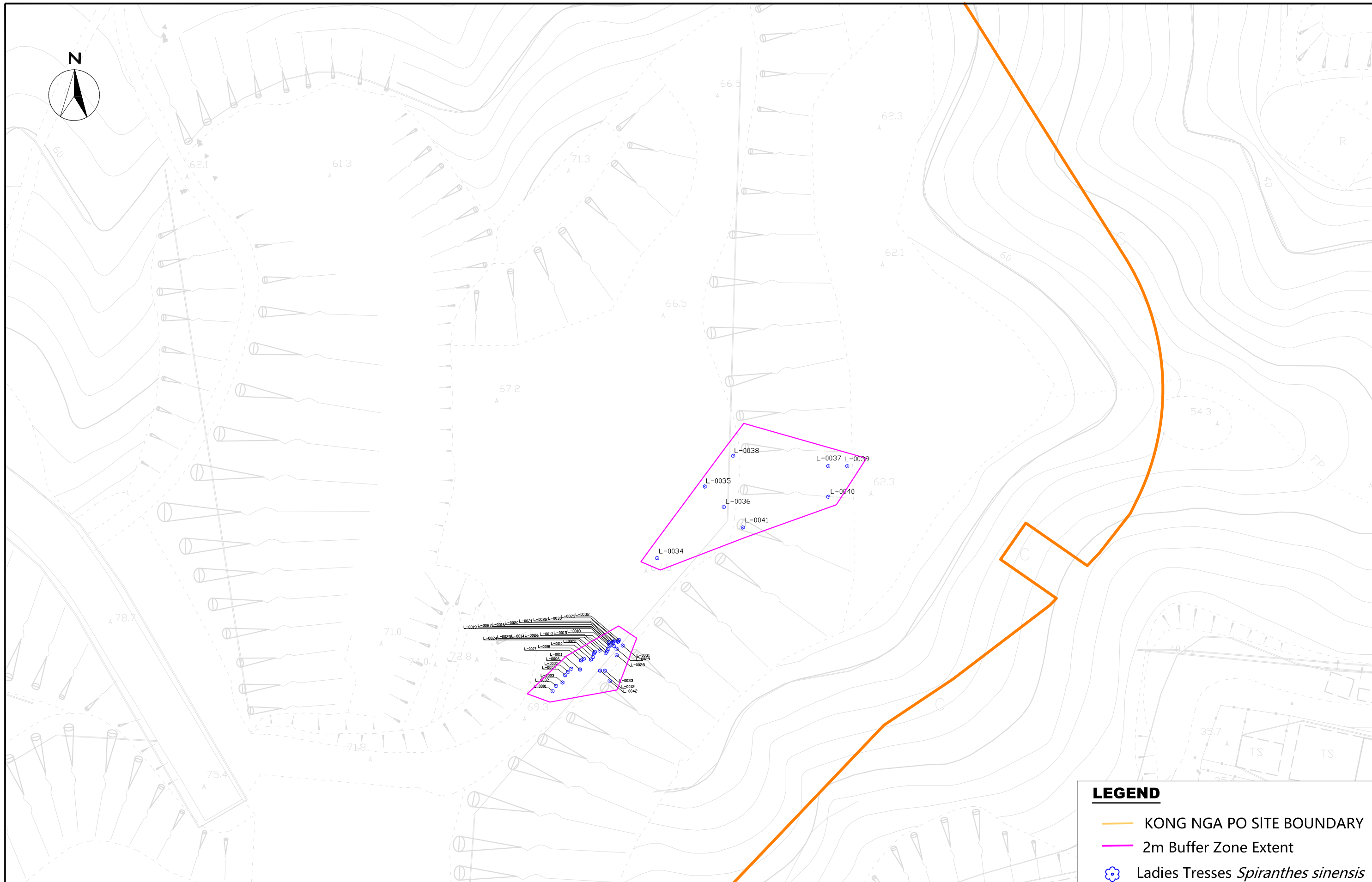


<b>LEGEND</b>			
	KONG NGA PO SITE BOUNDARY		
	2m Buffer Zone Extent		
	Proposed Transplant Location for <i>Brainea insignis</i> & <i>Spiranthes sinensis</i>		
	Cycad-fern <i>Brainea insignis</i>		
	Cycad-fern <i>Brainea insignis</i> (Patch)		



Service Contract No. NDO 07/2019 Environmental Team for Site  
Formation and Infrastructure Works for Police Facilities in Kong Nga Po  
Location of Cycad-fern *Brainea insignis*

SCALE	A3 @1:4000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
JOB No.	WMA20001	DRAWING No.	1G
		REV	-



LEGEND			
	KONG NGA PO SITE BOUNDARY		
	2m Buffer Zone Extent		
	Ladies Tresses <i>Spiranthes sinensis</i>		



Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po  
Location of Ladies Tresses *Spiranthes sinensis*

SCALE	A3 @1:4000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
JOB No.	WMA20001	DRAWING No.	1H
		REV	-

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**APPENDIX A  
DETAILED VEGETATION SURVEY  
SCHEDULE**

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Appendix A - Detailed Vegetation Survey Results

- Cycad-fern *Brainea insignis*

Tree / Plant / Colony No.	No. of individuals	Species Name	Chinese Common Name	Height (m)	DBH (mm)	Crown Spread (m)	Form (G/F/P)*	Health (G/F/P)*	Amenity Value (H/M/L)^	Structural Condition (G/F/P)*	Suitability for Transplanting (H/M/L)^	Conservation Status	Recommendations (Retain/Transplant/Fell)	Justification	Remarks
C-0001	8	<i>Brainea insignis</i>	蘇鐵蕨	0.3 - 1.0	-	-	F	F	-	-	M	C	Transplant	1	-
C-0002	8	<i>Brainea insignis</i>	蘇鐵蕨	0.3 - 1.0	-	-	F	F	-	-	M	C	Transplant	1	-
C-0003	1	<i>Brainea insignis</i>	蘇鐵蕨	1.3	-	-	G	G	-	-	M	C	Transplant	1	-
C-0004	20	<i>Brainea insignis</i>	蘇鐵蕨	0.2 - 1.3	-	-	F	F	-	-	M	C	Transplant	1	-
C-0005	7	<i>Brainea insignis</i>	蘇鐵蕨	0.5 - 0.7	-	-	F	F	-	-	M	C	Transplant	1	-
C-0006	1	<i>Brainea insignis</i>	蘇鐵蕨	0.2	-	-	F	F	-	-	M	C	Transplant	1	-
C-0007	2	<i>Brainea insignis</i>	蘇鐵蕨	1.3 - 1.4	-	-	G	G	-	-	M	C	Transplant	1	-
C-0008	7	<i>Brainea insignis</i>	蘇鐵蕨	1.2 - 1.3	-	-	G	G	-	-	M	C	Transplant	1	-
C-0009	1	<i>Brainea insignis</i>	蘇鐵蕨	0.9	-	-	F	F	-	-	M	C	Transplant	1	-
C-0010	3	<i>Brainea insignis</i>	蘇鐵蕨	0.8 - 0.9	-	-	F	F	-	-	M	C	Transplant	1	-
C-0011	13	<i>Brainea insignis</i>	蘇鐵蕨	0.9 - 1.2	-	-	F	F	-	-	M	C	Transplant	1	-

- Ladies Tresses *Spiranthes sinensis*

Tree / Plant / Colony No.	No. of individuals	Species Name	Chinese Common Name	Height (m)	DBH (mm)	Crown Spread (m)	Form (G/F/P)*	Health (G/F/P)*	Amenity Value (H/M/L)^	Structural Condition (G/F/P)*	Suitability for Transplanting (H/M/L)^	Conservation Status	Recommendations (Retain/Transplant/Fell)	Justification	Remarks
L-0001	1	<i>Spiranthes sinensis</i>	綾草	0.15	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0002	1	<i>Spiranthes sinensis</i>	綾草	0.1	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0003	1	<i>Spiranthes sinensis</i>	綾草	0.1	-	-	F	F	-	-	M	A, B	Transplant	1	-
L-0004	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0005	1	<i>Spiranthes sinensis</i>	綾草	0.1	-	-	F	F	-	-	M	A, B	Transplant	1	-
L-0006	1	<i>Spiranthes sinensis</i>	綾草	0.15	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0007	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0008	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0009	1	<i>Spiranthes sinensis</i>	綾草	0.1	-	-	F	F	-	-	M	A, B	Transplant	1	-
L-0010	1	<i>Spiranthes sinensis</i>	綾草	0.15	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0011	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0012	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0013	1	<i>Spiranthes sinensis</i>	綾草	0.25	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0014	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0015	1	<i>Spiranthes sinensis</i>	綾草	0.15	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0016	1	<i>Spiranthes sinensis</i>	綾草	0.15	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0018	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0019	1	<i>Spiranthes sinensis</i>	綾草	0.15	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0020	1	<i>Spiranthes sinensis</i>	綾草	0.1	-	-	F	F	-	-	M	A, B	Transplant	1	-
L-0021	1	<i>Spiranthes sinensis</i>	綾草	0.1	-	-	F	F	-	-	M	A, B	Transplant	1	-
L-0022	1	<i>Spiranthes sinensis</i>	綾草	0.15	-	-	F	F	-	-	M	A, B	Transplant	1	-
L-0023	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0024	1	<i>Spiranthes sinensis</i>	綾草	0.25	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0025	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0026	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0027	1	<i>Spiranthes sinensis</i>	綾草	0.15	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0028	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0029	1	<i>Spiranthes sinensis</i>	綾草	0.15	-	-	F	F	-	-	M	A, B	Transplant	1	-
L-0030	1	<i>Spiranthes sinensis</i>	綾草	0.15	-	-	F	F	-	-	M	A, B	Transplant	1	-
L-0031	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0032	1	<i>Spiranthes sinensis</i>	綾草	0.1	-	-	F	F	-	-	M	A, B	Transplant	1	-
L-0033	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0034	1	<i>Spiranthes sinensis</i>	綾草	0.1	-	-	F	F	-	-	M	A, B	Transplant	1	-
L-0035	1	<i>Spiranthes sinensis</i>	綾草	0.25	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0036	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0037	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0038	1	<i>Spiranthes sinensis</i>	綾草	0.25	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0039	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0040	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0041	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0042	1	<i>Spiranthes sinensis</i>	綾草	0.25	-	-	G	G	-	-	M	A, B	Transplant	1	-

- Fortune's Keteleeria *Keteleeria fortunei*

Tree / Plant / Colony No.	No. of individuals	Species Name	Chinese Common Name	Height (m)	DBH (mm)	Crown Spread (m)	Form (G/F/P)*	Health (G/F/P)*	Amenity Value (H/M/L)*	Structural Condition (G/F/P)*	Suitability for Transplanting (H/M/L)*	Conservation Status	Recommendations ((Retain/Transplant/Fell)	Justification	Remarks
F-0001	1	<i>Keteleeria fortunei</i>	油杉	5	115	4	F	F	M	F	L	B	Retain	2	-
F-0002	1	<i>Keteleeria fortunei</i>	油杉	9	220	4	F	P	M	F	L	B	Retain	2	-
F-0003	1	<i>Keteleeria fortunei</i>	油杉	9	220	4.5	F	F	M	F	L	B	Retain	2	-
F-0004	1	<i>Keteleeria fortunei</i>	油杉	4	280	2	F	P	M	F	L	B	Retain	2	Broken branches
F-0005	1	<i>Keteleeria fortunei</i>	油杉	3	80	1	F	P	L	F	L	B	Retain	2	-
F-0006	1	<i>Keteleeria fortunei</i>	油杉	4	85	2	F	F	M	F	L	B	Retain	2	-
F-0007	1	<i>Keteleeria fortunei</i>	油杉	1.2	20	1	F	F	L	F	L	B	Retain	2	-
F-0008	1	<i>Keteleeria fortunei</i>	油杉	1.1	20	1.5	P	P	L	P	L	B	Retain	2	-
F-0009	1	<i>Keteleeria fortunei</i>	油杉	9	240	4	F	F	M	F	L	B	Retain	2	-
F-0010	1	<i>Keteleeria fortunei</i>	油杉	9	220	4	F	P	M	F	L	B	Retain	2	-
F-0011	1	<i>Keteleeria fortunei</i>	油杉	3	60	2	F	P	L	F	L	B	Retain	2	Broken branches
F-0012	1	<i>Keteleeria fortunei</i>	油杉	4	120	2	F	F	M	F	L	B	Retain	2	-
F-0013	1	<i>Keteleeria fortunei</i>	油杉	5	150	3	F	F	M	F	L	B	Retain	2	-
F-0014	1	<i>Keteleeria fortunei</i>	油杉	5	140	3	F	F	L	F	L	B	Retain	2	Broken branches
F-0015	1	<i>Keteleeria fortunei</i>	油杉	3	92	-	P	P	L	P	L	B	Retain	2	Leaning
F-0016	1	<i>Keteleeria fortunei</i>	油杉	2	41	1	P	P	L	P	L	B	Retain	2	Leaning
F-0017	1	<i>Keteleeria fortunei</i>	油杉	4	108	2	P	P	L	P	L	B	Fell	3	Broken branches, Leaning, Dead
F-0018	1	<i>Keteleeria fortunei</i>	油杉	2	89	1.5	P	P	L	P	L	B	Retain	2	Broken branches
F-0019	1	<i>Keteleeria fortunei</i>	油杉	4	86	2	P	P	L	P	L	B	Retain	2	Broken branches, Leaning
F-0020	1	<i>Keteleeria fortunei</i>	油杉	5	86	1.5	F	F	M	F	L	B	Retain	2	-
F-0021	1	<i>Keteleeria fortunei</i>	油杉	7	152	3	P	P	M	P	L	B	Retain	2	-
F-0022	1	<i>Keteleeria fortunei</i>	油杉	5	76	2	F	F	L	F	L	B	Retain	2	-
F-0023	1	<i>Keteleeria fortunei</i>	油杉	8	181	4	F	F	M	F	L	B	Retain	2	-
F-0024	1	<i>Keteleeria fortunei</i>	油杉	8	296	6	F	F	M	F	L	B	Retain	2	-
F-0025	1	<i>Keteleeria fortunei</i>	油杉	4	124	4	F	F	M	F	L	B	Retain	2	Pollarded
F-0027	1	<i>Keteleeria fortunei</i>	油杉	2.5	-	2	F	F	L	F	L	B	Retain	2	Pollarded
F-0028	1	<i>Keteleeria fortunei</i>	油杉	3	80	2	F	F	L	F	L	B	Retain	2	Broken branches, Leaning
F-0029	1	<i>Keteleeria fortunei</i>	油杉	7	190	3	F	F	M	F	L	B	Retain	2	-
F-0030	1	<i>Keteleeria fortunei</i>	油杉	7	203	5	F	F	M	F	L	B	Retain	2	-
F-0031	1	<i>Keteleeria fortunei</i>	油杉	3	76	1.5	F	F	L	F	L	B	Retain	2	-
F-0032	1	<i>Keteleeria fortunei</i>	油杉	7	140	3	F	F	L	F	L	B	Retain	2	-
F-0034	1	<i>Keteleeria fortunei</i>	油杉	13	430	6	F	F	M	F	L	B	Retain	2	-
F-0035	1	<i>Keteleeria fortunei</i>	油杉	5	105	1.5	P	P	L	P	L	B	Retain	2	Leaning
F-0036	1	<i>Keteleeria fortunei</i>	油杉	7	162	4	F	F	M	F	L	B	Retain	2	-
F-0037	1	<i>Keteleeria fortunei</i>	油杉	4	105	2	F	F	M	F	L	B	Retain	2	-
F-0038	1	<i>Keteleeria fortunei</i>	油杉	6	159	3	F	F	M	F	L	B	Retain	2	-
F-0039	1	<i>Keteleeria fortunei</i>	油杉	7	210	5	F	F	M	F	L	B	Retain	2	-
F-0040	1	<i>Keteleeria fortunei</i>	油杉	8	220	5	F	F	M	F	L	B	Retain	2	-
F-0041	1	<i>Keteleeria fortunei</i>	油杉	9	190	6	F	F	L	F	L	B	Retain	2	-
F-0042	1	<i>Keteleeria fortunei</i>	油杉	6	60	2	P	P	L	P	L	B	Retain	2	-
F-0043	1	<i>Keteleeria fortunei</i>	油杉	11	241	5	F	F	M	F	L	B	Retain	2	-
F-0044	1	<i>Keteleeria fortunei</i>	油杉	1.5	35	-	P	P	L	P	L	B	Fell	3	Dead
F-0045	1	<i>Keteleeria fortunei</i>	油杉	11	248	5	F	F	M	F	L	B	Retain	2	-
F-0046	1	<i>Keteleeria fortunei</i>	油杉	2	45	2	F	F	L	F	L	B	Retain	2	-
F-0047	1	<i>Keteleeria fortunei</i>	油杉	5	108	3	F	F	M	F	L	B	Retain	2	-
F-0048	1	<i>Keteleeria fortunei</i>	油杉	7	184	4	F	F	M	F	L	B	Retain	2	-
F-0049	1	<i>Keteleeria fortunei</i>	油杉	1	20	-	P	P	L	P	L	B	Fell	3	Leaning, Dead
F-0050	1	<i>Keteleeria fortunei</i>	油杉	0.8	44	-	P	P	L	P	L	B	Retain	2	Pollarded
F-0051	1	<i>Keteleeria fortunei</i>	油杉	2	63	-	P	P	L	P	L	B	Retain	2	Leaning

Tree / Plant / Colony No.	No. of individuals	Species Name	Chinese Common Name	Height (m)	DBH (mm)	Crown Spread (m)	Form (G/F/P)*	Health (G/F/P)*	Amenity Value (H/M/L)^	Structural Condition (G/F/P)*	Suitability for Transplanting (H/M/L)^	Conservation Status	Recommendations ((Retain/Transplant/Fell)	Justification	Remarks
F-0052	1	<i>Keteleeria fortunei</i>	油杉	1	31	-	P	P	L	P	L	B	Retain	2	Leaning
F-0053	1	<i>Keteleeria fortunei</i>	油杉	14	460	7	G	G	H	G	L	B	Retain	2	-
F-0054	1	<i>Keteleeria fortunei</i>	油杉	11	274	5	F	F	H	G	L	B	Retain	2	-
F-0055	1	<i>Keteleeria fortunei</i>	油杉	11	274	4	F	F	H	F	L	B	Retain	2	-
F-0056	1	<i>Keteleeria fortunei</i>	油杉	10	223	5	F	F	M	P	L	B	Retain	2	-
F-0057	1	<i>Keteleeria fortunei</i>	油杉	7	99	3	F	F	M	F	L	B	Retain	2	-
F-0058	1	<i>Keteleeria fortunei</i>	油杉	4	140	4	P	P	L	P	L	B	Retain	2	Pollarded
F-0059	1	<i>Keteleeria fortunei</i>	油杉	9	175	6	P	P	M	F	L	B	Retain	2	-
F-0060	1	<i>Keteleeria fortunei</i>	油杉	8	127	2	F	F	M	F	L	B	Retain	2	-
F-0061	1	<i>Keteleeria fortunei</i>	油杉	9	162	3	F	F	M	F	L	B	Retain	2	-
F-0062	1	<i>Keteleeria fortunei</i>	油杉	10	175	3	F	F	M	F	L	B	Retain	2	-
F-0063	1	<i>Keteleeria fortunei</i>	油杉	7	105	3	F	F	M	F	L	B	Retain	2	-
F-0064	1	<i>Keteleeria fortunei</i>	油杉	8	171	3	F	F	M	F	L	B	Retain	2	-
F-0065	1	<i>Keteleeria fortunei</i>	油杉	3	92	5	F	F	L	F	L	B	Retain	2	-
F-0066	1	<i>Keteleeria fortunei</i>	油杉	7	184	5	F	F	M	F	L	B	Retain	2	-
F-0067	1	<i>Keteleeria fortunei</i>	油杉	7	111	2	F	F	M	F	L	B	Retain	2	-
F-0068	1	<i>Keteleeria fortunei</i>	油杉	6	101	3	F	F	M	F	L	B	Retain	2	-
F-0069	1	<i>Keteleeria fortunei</i>	油杉	4	76	2	F	F	M	F	L	B	Retain	2	-
F-0070	1	<i>Keteleeria fortunei</i>	油杉	6	95	3	F	F	M	F	L	B	Retain	2	-
F-0071	1	<i>Keteleeria fortunei</i>	油杉	5	67	1	F	F	L	F	L	B	Retain	2	-
F-0072	1	<i>Keteleeria fortunei</i>	油杉	8	156	2	P	P	L	P	L	B	Retain	2	Leaning, Broken branches
F-0073	1	<i>Keteleeria fortunei</i>	油杉	7	134	3	F	F	M	F	L	B	Retain	2	-
F-0074	1	<i>Keteleeria fortunei</i>	油杉	8	181	5	F	F	M	F	L	B	Retain	2	-
F-0075	1	<i>Keteleeria fortunei</i>	油杉	5	102	5	F	F	M	F	L	B	Retain	2	-
F-0076	1	<i>Keteleeria fortunei</i>	油杉	8	159	3	F	F	M	F	L	B	Retain	2	-
F-0077	1	<i>Keteleeria fortunei</i>	油杉	4	80	2	F	F	L	F	L	B	Retain	2	-
F-0078	1	<i>Keteleeria fortunei</i>	油杉	7	70	1.5	F	F	L	F	L	B	Retain	2	-
F-0079	1	<i>Keteleeria fortunei</i>	油杉	7	137	3	F	F	M	F	L	B	Retain	2	-
F-0080	1	<i>Keteleeria fortunei</i>	油杉	10	290	5	F	F	M	F	L	B	Retain	2	-
F-0081	1	<i>Keteleeria fortunei</i>	油杉	8	80	1.5	P	P	L	P	L	B	Retain	2	Leaning
F-0082	1	<i>Keteleeria fortunei</i>	油杉	1.1	-	1	P	P	L	P	L	B	Retain	2	-

- Incense Trees *Aquilaria sinensis*

Tree / Plant / Colony No.	No. of individuals	Species Name	Chinese Common Name	Height (m)	DBH (mm)	Crown Spread (m)	Form (G/F/P)*	Health (G/F/P)*	Amenity Value (H/M/L)^	Structural Condition (G/F/P)*	Suitability for Transplanting (H/M/L)^	Conservation Status	Recommendations ((Retain/Transplant/Fell)	Justification	Remarks
A-0001	1	<i>Aquilaria sinensis</i>	土沉香	2.7	-	-	F	F	-	-	L	A, C, D	Retain	2	-
A-0002	1	<i>Aquilaria sinensis</i>	土沉香	2	-	-	F	F	-	-	L	A, C, D	Retain	2	-
A-0003	1	<i>Aquilaria sinensis</i>	土沉香	3	-	-	F	F	-	-	L	A, C, D	Retain	2	-
A-0004	1	<i>Aquilaria sinensis</i>	土沉香	3.5	-	-	F	F	-	-	L	A, C, D	Retain	2	-
A-0005	1	<i>Aquilaria sinensis</i>	土沉香	2	-	-	F	F	-	-	L	A, C, D	Retain	2	-
A-0006	1	<i>Aquilaria sinensis</i>	土沉香	1.7	-	-	F	F	-	-	L	A, C, D	Retain	2	-
A-0007	1	<i>Aquilaria sinensis</i>	土沉香	0.5	-	-	P	P	-	-	L	A, C, D	Retain	2	-
A-0008	1	<i>Aquilaria sinensis</i>	土沉香	7	324	4	F	F	M	F	L	A, C, D	Transplant	1	Wounded, on slope
A-0009	1	<i>Aquilaria sinensis</i>	土沉香	6	120	3	F	G	M	G	L	A, C, D	Transplant	1	On slope
A-0010	1	<i>Aquilaria sinensis</i>	土沉香	6	159	3	F	F	F	F	L	A, C, D	Transplant	1	On slope

\* Good (G), Fair (F), Poor (P)

^ High (H), Medium (M), Low (L)

Conservation status

(A) The Protection of Endangered Species of Animals and Plants Ordinance (Cap. 586)

(B) Forests and Countryside Ordinance (Cap. 96)

(C) Category II protected species in Mainland China

(D) Near threatened in mainland

Justification

1. Species located within and affected by the development area of Kong Nga Po Police Facilities

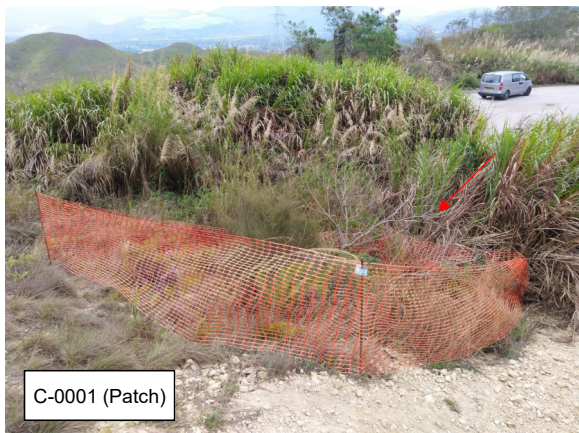
2. No conflict with proposed works

3. Dead tree

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**APPENDIX B  
PHOTOGRAPHIC RECORD OF  
SURVEYED FLORA SPECIES OF  
CONSERVATION IMPORTANCE**

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C-0001 (Patch)




C-0002 (Patch)



C-0003

 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for Cycad-fern <i>Brainea Insignis</i>	Project No. WMA20001	Appendix B



 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N . T . S .	DATE Mar - 20
	Photographic Records for Cycad-fern <i>Brainea Insignis</i>	Project No. WMA20001	Appendix B



C-0004 (Patch)




C-0004 (Patch)




C-0004 (Patch)



C-0004 (Patch)

 <p>consulting . testing . research</p>	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for Cycad-fern <i>Brainea Insignis</i>	Project No. WMA20001	Appendix B



 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N . T . S .	DATE Mar - 20
	Photographic Records for Cycad-fern <i>Brainea Insignis</i>	Project No. WMA20001	Appendix B




C-0006



C-0007 (Patch)

	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N . T . S .	DATE Mar - 20
	Photographic Records for Cycad-fern <i>Brainea Insignis</i>	Project No. WMA20001	Appendix B



	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N . T . S .	DATE Mar -20
	Photographic Records for Cycad-fern <i>Brainea Insignis</i>	Project No. WMA20001	Appendix B



C-0009



C-0010 (Patch)

	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N. T. S.	DATE Mar -20
	Photographic Records for Cycad-fern <i>Brainea Insignis</i>	Project No. WMA20001	Appendix B



C-0011 (Patch)




C-0011 (Patch)




C-0011 (Patch)




C-0011 (Patch)

 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N . T . S .	DATE Mar -20
	Photographic Records for Cycad-fern <i>Brainea Insignis</i>	Project No. WMA20001	Appendix B




 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N . T . S .	DATE Mar - 20
	Photographic Records for Cycad-fern <i>Brainea Insignis</i>	Project No. WMA20001	Appendix B




 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar-20</p>
	<p>Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar-20
	Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i>	Project No. WMA20001	Appendix B



	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar-20
	Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i>	Project No. WMA20001	Appendix B



L-0013



L-0014



L-0015



L-0016

	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar-20
	Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i>	Project No. WMA20001	Appendix B



L-0018




L-0019



L-0020



L-0021

 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar-20
	Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i>	Project No. WMA20001	Appendix B



L-0022




L-0023



L-0024



L-0025

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



L-0026




L-0027



L-0028



L-0029

 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i>	Project No. WMA20001	Appendix B



L-0030




L-0031




L-0032



L-0033

 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar-20
	Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i>	Project No. WMA20001	Appendix B



 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar-20
	Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i>	Project No. WMA20001	Appendix B



L-0038




L-0039




L-0040



L-0041

 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar-20
	Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i>	Project No. WMA20001	Appendix B



 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i>	Project No. WMA20001	Appendix B



F-0001



F-0002



F-0003



F-0004

	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i>	Project No. WMA20001	Appendix B



F-0005




F-0006



F-0007



F-0008

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



F-0009



F-0010



F-0011



F-0012



F-0013




F-0014




F-0015



F-0016

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



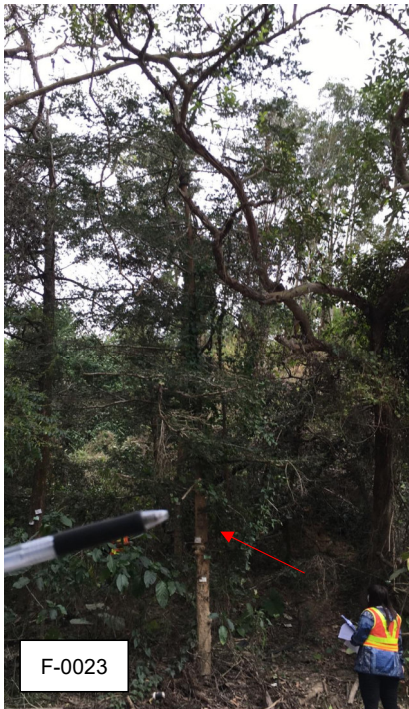
 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i>	Project No. WMA20001	Appendix B



F-0021




F-0022



F-0023



F-0024

 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i>	Project No. WMA20001	Appendix B



F-0025



F-0027



F-0028

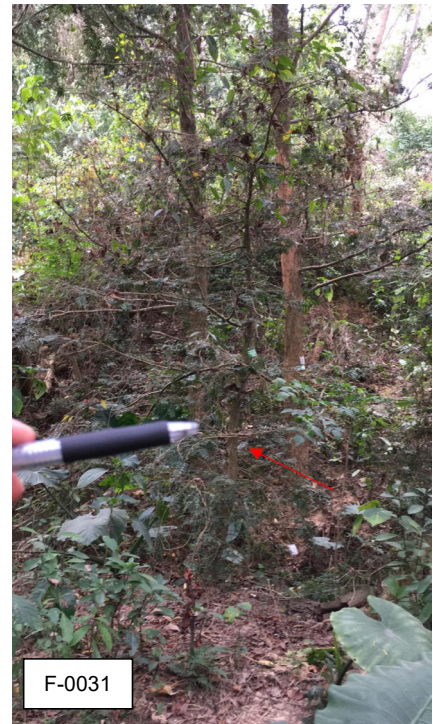


F-0029

	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for Fortune's <i>Keteleeria Keteleeria fortunei</i>	Project No. WMA20001	Appendix B



F-0030




F-0031



F-0032



F-0034

	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i>	Project No. WMA20001	Appendix B



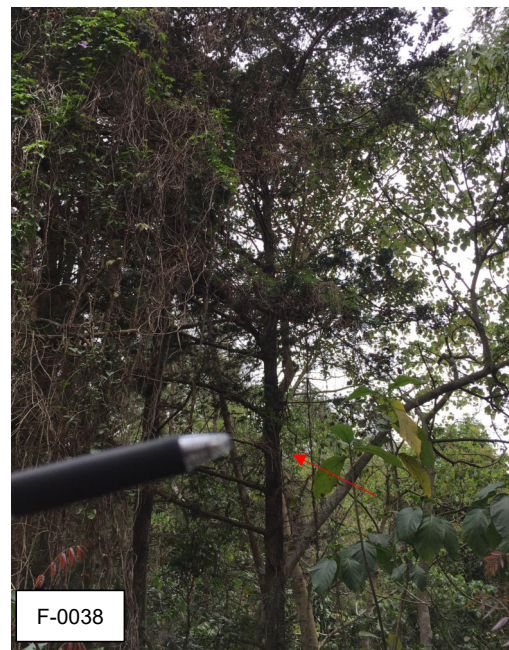
F-0035




F-0036



F-0037



F-0038

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



F-0039



F-0040




F-0041



F-0042

	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i>	Project No. WMA20001	Appendix B



 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



F-0047




F-0048




F-0049



F-0050

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



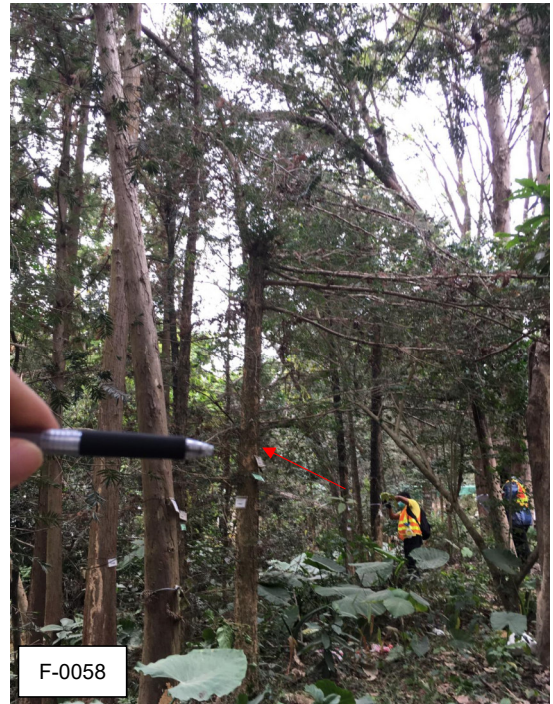
F-0055




F-0056



F-0057



F-0058

	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



F-0059



F-0060



F-0061



F-0062

	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i>	Project No. WMA20001	Appendix B



F-0063




F-0064



F-0065



F-0066

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



F-0067




F-0068



F-0069

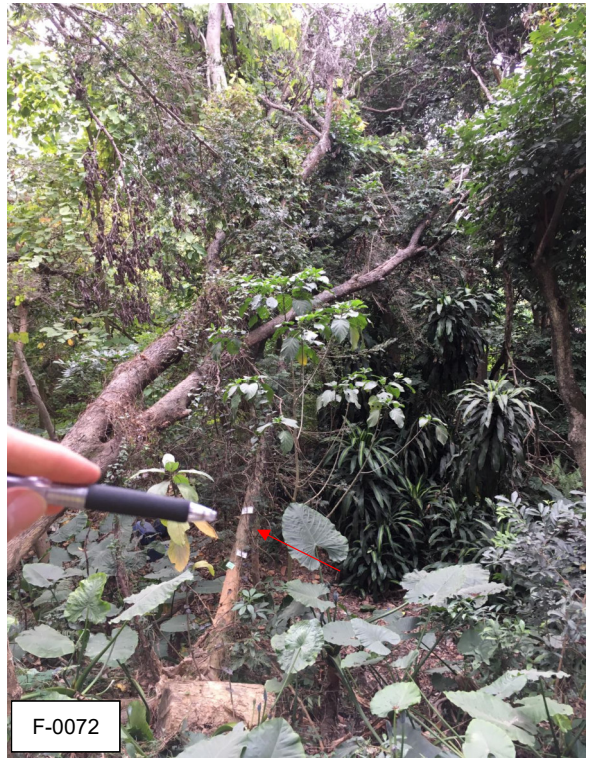


F-0070

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



F-0071




F-0072



F-0073



F-0074

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



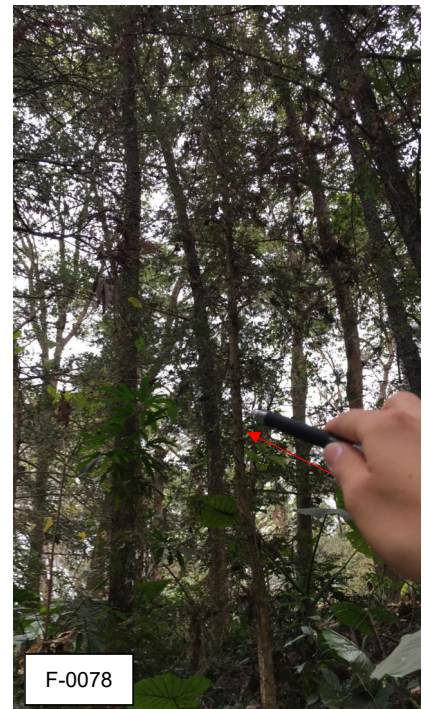
F-0075



F-0076



F-0077

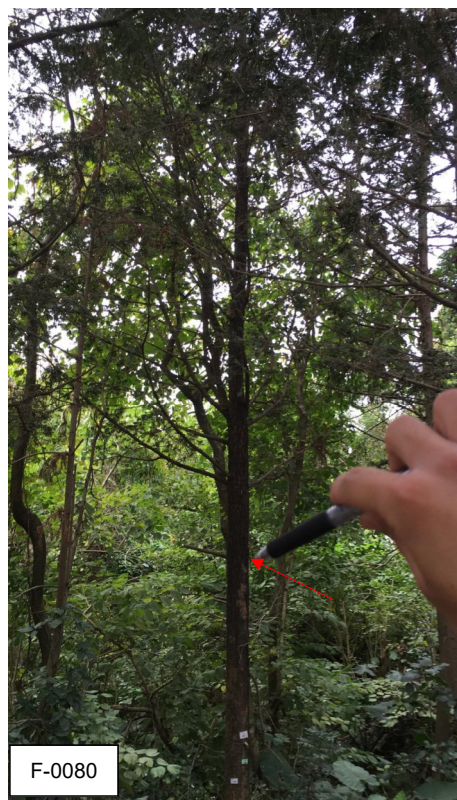


F-0078

	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



F-0079



F-0080



F-0081



F-0082

	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i>	Project No. WMA20001	Appendix B



A-0001




A-0002




A-0003




A-0004

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Inense Tree <i>Aquilaria Sinensis</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N . T . S .</p>	<p>DATE</p> <p>Mar - 20</p>
	<p>Photographic Records for Insense Tree <i>Aquilaria Sinensis</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



 <p>consulting . testing . research</p>	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N . T . S .	DATE Mar -20
	Photographic Records for Insense Tree <i>Aquilaria Sinensis</i>	Project No. WMA20001	Appendix B

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**APPENDIX C  
CURRICULUM VITAE OF QUALIFIED  
ECOLOGIST AND ARBORIST**

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<b>COMPANY</b>	WELLAB LIMITED
<b>POSITION</b>	MANAGING DIRECTOR
<b>PROFESSION</b>	ECOLOGIST AND ARBORIST
<b>NATIONALITY</b>	CHINESE

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**PROFESSIONAL QUALIFICATIONS & AFFILIATIONS**

- Ph.D., Microbiology, University of Hong Kong, Hong Kong. 1992.
  - B.Sc., Biology, National Taiwan Normal University, Taipei, Taiwan, Republic of China. 1983
  
  - Hong Kong Institute of Qualified Environmental Professionals Limited (HKIQEP), 2017
  - Member, Hong Kong Institution of Engineers, 2015
  - Fellow, Hong Kong Institute of Environmental Impact Assessment, 2015
  - Accredited Monitoring Professional, Hong Kong Institute of Environmental Impact Assessment, 2010
  - Member, Hong Kong Waste Management Association, 1998
  
  - Member, Sustainable Fisheries Development Fund Advisory Committee (2020-present)
  - Member, the Advisory Committee on Agriculture and Fisheries (2013-2019)
  - Member, Research Projects Vetting Subcommittee under the Environment and Conservation Fund (ECF) Committee (2018-present)
  - Member, the Innovation and Technology Fund Research Projects Assessment Panel (Environmental Technology) (2017-present)
  
  - ISA Certified Arborist (CertificationID:HK-0361A) (2009 - present)
  - ISA Tree Risk Assessment Qualification (2012-2015)
  - PNW-ISA Certified Tree Risk Assessor
- 

**KEY EXPERIENCE**

**Dr. Priscilla Choy** has over 35 year experience in in scientific research, ecological conservation, ecological surveys and assessment, tree survey, tree risk assessment, environmental monitoring & audit, environmental management studies, environmental testing and laboratory analysis.. In the past 23 years, she has managed many ecological surveys and assessment studies, numerous environmental monitoring & audit for infrastructure projects and tree survey projects / tree risk assessment projects.

Dr. Choy is an Ecologist (PNW-ISA Certified Tree Risk Assessor and ISA Certified Arborist) specialized in the evaluation of vegetation, wildlife and habitat values of brackish and freshwater. She has supervised and undertaken many ecological projects involving ecological survey, monitoring and assessment, involving wetland recreation, rare/protected plant species transplantation and fish translocation works. She has also conducted extensive surveys on different habitats and the associated vegetation and wildlife for development projects, including Improvement to Tung Chung Road Between Lung Tseng Tau and Cheung Sha, Drainage Improvement, Stage 1, Phase 2A – Kam Tin and Ngau Tam Mei; and many others.

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**PROFESSIONAL HISTORY**

2019 - Present	Managing Director, Wellab Limited
2005 - 2018	Director, Wellab Limited
2002 - 2018	Director, Cinotech Consultants Limited
1998 - 2002	Director, Maunsell Environmental Management Consultants Ltd.
1997 - 1998	Director, ENPAC Ltd. (An Environmental Consultancy Company)

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1996 - 1998 Laboratory Director, Wellab Limited  
 1996 - 1997 Project Manager, ENPAC Ltd. (An Environmental Consultancy Company)

## PROFESSIONAL EXPERIENCE AND RECORDS

### Tree Survey, Risk Assessment, Protection and Monitoring (Partial List)

Project	Scope	Period
Contract No. GE/2018/03 Landslip Prevention and Mitigation Programme, 2012, Package C Landslip Prevention and Mitigation Works in Lantau and Hong Kong Island	- Tree Survey - Vegetation Survey	2018-present
CEDD Operation and Maintenance of Public Fill Reception Facilities at Chai Wan and Mui Wo (2018 – 2023)	Tree group inspection and detailed tree risk assessment of trees	2018-present
SPW09/2018 Baseline Surveys for Shatin Cavern Sewage Treatment Works	- Vegetation Survey	2018 - 2019
Proposed Residential Development At 21, 23 & 25 Borrett Road	- Tree compensation proposal - Tree health monitoring	2015
Provision of Lifts/Ramps to Four Footbridges across Aberdeen Praya Road and Yue Shi Cheung Road, across Tsuen Wan MTR Depot near Mega Trade Centre, across Castle Peak Road near Fou Wah Centre and across Choi Yuen Road and San Wan Road at Pak Wo Road, and Two Subways across Ching Hong Road near Mayfair Gardens and across Tai Po Road near Fo Tan Road	Tree survey in Sheung Shui area	2015
CEDD Maintenance Contract for Seawalls and Navigation Channels (2013 – 2016)	Tree group inspection and detailed tree risk assessment of trees at Cha Kwo Ling Depot	2014
Main Contract for Footbridge at Tuen Mun River	Tree survey at Portions A and B	2014
Tree Survey and Compensation Report for Hong Kong Vipassana Meditation Centre	Tree survey at the proposed centre and along the access road	2011
Agreement No. CE 64/2009 (HY) Improvement to Fan Kam Road Feasibility Study	Tree survey within and about 5 m outside the work site boundary	2010 – 2011
Tenancy Agreement No. SHX-1241 Tin Wan Concrete Batching Plant	Tree survey	2010
Contract No: ST/2008/02 Ma On Shan Development - Roads, Drainage and Sewerage Works at Whitehead and Lok Wo Sha Phase 1	Tree transplanting site assessment	2010

Project	Scope	Period
Contract No. DC/2007/19 Drainage Improvement in Northern Hong Kong Island - Western Lower Catchment Works	Tree survey at the following locations: <ul style="list-style-type: none"> <li>- Cotton Path</li> <li>- Shouson Hill Road West</li> <li>- Sheung Wan Site Office</li> <li>- Nullah next to Queen's College</li> <li>- Drainage D4</li> </ul> Tree risk assessment at the following location: <ul style="list-style-type: none"> <li>- Nullah next to Queen's College</li> </ul>	2009 2009, 2013 2009 2009, 2012 2010 2013
Cycle Tracks Connecting North West New Territories with North East New Territories – (Extension), Minor Sections Investigation, Design and Construction	Tree survey	2008 – 2013
Contract No. DC/2007/10 Design and Construction of Hong Kong West Drainage Tunnel	Tree survey report for at the Eastern and Western Portals of the Project	2008
Slope Upgrading Works for Feature No. 11SW-B/FR211 & 11SW-B/F247 at Kowloon Park	Regular tree inspection for retained and historical trees	2007 - 2008
Tree Survey in Pokfulam & Wah Fu Areas	Tree survey in Pokfulam & Wah Fu Areas	2007
Contract No. 15/WSD/06 Mainlaying along Castle Peak Road between Siu Lam and Lok On Pai	Tree survey within and about 5 m outside the work site boundary	2007
Contract No. DC/2003/02 Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvement, Stage 1, Phase 2A – Kam Tin and Ngau Tam Mei	Tree survey affected by the construction of the Ngau Tam Mei Channel (NTM1) and Kam Tin Secondary Channel (KT7)	2004
Trunk Road T4, Shatin	Tree survey within and about 5 m outside the work site boundary	2003 - 2005
Agreement No. CE 57/2002 (HY) Provision of Access Facilities for the Elderly & Disabled at Existing Footbridge in NT – Phase I	Tree surveys at five existing footbridge sites	2003
EIA for High Pressure Gas Pipeline Inside Ma On Shan Country Park	Tree survey within and about 5 m outside the work site boundary	2002
Agreement No. CE 61/90 Tolo Harbour Catchment Stage I Phase ID Sewerage Contract 1D – Yung Shue O	Tree survey within the work site and 20 m outside the work boundary	2002

### **Ecological Impact Assessment / Monitoring (Partial list)**

Project	Scope	Period
Development of Lok Ma Chau Loop: Land Decontamination and Advance Engineering Works – Environmental Team	<ul style="list-style-type: none"> <li>- Avifauna flight line survey</li> <li>- Herpetofauna monitoring of species of conservation significant – Chinese Bull Frog</li> <li>- Use of remote sensing camera for monitoring of mammals</li> </ul>	2018 - 2019
Deep Cement Mixing Works for Three Runway System	Dolphin monitoring	2016 – 2019
Contract P553 Deep Cement Mixing Trial Works (By Multiple Rigs)	Dolphin monitoring	2015
AA Contract P560(R) - Aviation Fuel Pipeline Diversion Works	Ecological survey for terrestrial habitats	2015

Project	Scope	Period
Consultancy for Environmental Assessment for Laser and Light Shows at Galaxy Cotai Macau Phase 1 & 2 Development	Review of impact on avifauna due to laser show	2014
Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between HKSAR Boundary and Scenic Hill	Dolphin monitoring	2013 – 2018
Contract No. CV/2012/01 Sediment Removal at Yim Tin Tsai (East) Fish Culture Zone	Monitoring for ardeids, white-bellied sea eagles and coral	2013 - 2014
Port Shelter Sewerage, Stage 3 – Sewerage Works at Po Toi O Environmental Impact Assessment Studies – Investigation	Ecological impact assessment (terrestrial, coastal and benthic)	2013 - 2014
Discovery Bay Maintenance Dredging 2012	Ecological appraisal (terrestrial, coastal, benthic)	2013
Maintenance Contract for Seawalls and Navigation Channels (2010-2013) Kam Tin River – Waterbird Monitoring	Waterbird monitoring	2012
Harbour Area Treatment Scheme Stage 2A – Construction of Advance Disinfection Facilities at Stonecutters Island Sewage Treatment Works	Benthic survey	2012
Baseline Environmental Monitoring for Hong Kong - Zhuhai - Macao Bridge Hong Kong Projects – Investigation	Dolphin monitoring	2011
Deep Cement Mixing Trial Works	Dolphin monitoring	2011
Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point	Egret Survey	2011
Consultancy Service for Ecological Impact Assessment at Yan Tun Kong Study Hall, Hang Tau Tsuen, Ping Shan, Hong Kong	Ecological impact assessment (bat)	2010 – 2011
Agreement No. CE 64/2009 (HY) Improvement to Fan Kam Road Feasibility Study	Ecological impact assessment (terrestrial and stream)	2010 – 2011
Improvement Work for Mui Wo Facelift – Design and Construction	Ecological impact assessment for opening of Silvermine Cave (terrestrial and stream)	2010 - 2011
Consultancy for Environmental Monitoring on the Major Restoration of the Residence of Ip Ting-Sz, Lin Ma Hang Tsuen, Sha Tau Kok	Ecological impact assessment (terrestrial and stream)	2010
Contract No: ST/2008/02 Ma On Shan Development - Roads, Drainage and Sewerage Works at Whitehead and Lok Wo Sha Phase 1	- Shrub survey for Hong Kong Pavetta ( <i>Pavetta hongkongensis</i> ) and Small Persimmon ( <i>Diospyros vaccinioides</i> ) - Transplantation monitoring	2010
Contract No. DC/2008/09 Harbour Area Treatment Scheme Stage 2A Construction of Sewage Conveyance System From Ap Lei Chau to Aberdeen	Monitoring of Coral	2009
CE39/2006 (DS) Rehabilitation of Yuen Long Town Nullahs	Ecological impact assessment (terrestrial and stream)	2008 – 2009

<b>Project</b>	<b>Scope</b>	<b>Period</b>
Contract No. DC/2007/10 Design and Construction of Hong Kong West Drainage Tun	Amphibian Survey and Translocation	2008
Environmental Audit and Review on the Effectiveness of Mitigation Measures for Projects in Sai Kung and on Lantau Island	Review of effectiveness of ecological mitigation measures (vegetation, stream and coral transplant)	2007
Agreement No. CE18/2006(DS) Reconstruction & Improvement of Staunton Creek Nullah in Wong Chuk Hang and Fuk Man Road Nullah in Sai Kung, Investigation, Design and Construction	Ecological impact assessment (terrestrial and stream)	2007
Agreement No. CE 27/2005 (CE) Ping Ha Road Improvement and Hung Shui Kiu Development, Stage 2 – Remaining Works	Ecological impact assessment (terrestrial and stream)	2005 – 2006
Trunk Road T4, Shatin	Ecological impact assessment (terrestrial)	2003 - 2005
Tonggu Channel of Shenzhen Port	Ecological impact assessment (intertidal, benthic)	2003 - 2005

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**APPENDIX D  
MONTHLY MONITORING CHECKLIST  
FOR FLORA SPECIES OF  
CONSERVATION INTEREST**

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Monthly Monitoring of Flora Species of Conservation Interest  
 Service Contract No. NDO 07/2019  
 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

Audit Ref. No. \_\_\_\_\_

<b>Contract</b>	<u>Service Contract No. NDO 07/2019</u> <u>Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</u>	<b>Env. Team</b>	<u>Wellab Limited</u>
		<b>Supervisor's Rep.</b>	<u>AECOM</u>
		<b>IEC</b>	<u>Acuity Sustainability Consulting Limited</u>
<b>Inspected By</b>	<u>ET Auditor:</u> <u>Supervisor's Rep.:</u> <u>IEC:</u>	<b>Inspection Date</b>	_____
		<b>Time Period</b>	_____

**Part A Weather**

**Condition**     Sunny     Fine     Overcast     Drizzle     Rain     Storm     Hazy

**Temperature**     °C

**Humidity**     High (RH>90%)     Moderate (90%>RH>50%)     Low (RH<50%)

**Wind**     Calm     Light     Breeze     Strong

	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
<b>Part B</b>						
<b>1. <u>Cycadfern <i>Brainea insignis</i></u></b>						
1.1 Are the plants' health conditions satisfactory?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.2 Are transplanted plants on site protected carefully?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.3 Are the temporary protective fence properly erected and maintained?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.4 Are the plant protection zone set 1m from the plants?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.5 Are all grassed and planted area kept free from weeds/unwanted plants?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.6 Is compaction of the soil avoided for the plants?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.7 Are litter/ unwanted material removed within the planting area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.8 Are equipment or stockpile placed outside the protection zone?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.9 Are soil, debris or construction materials deposited around and against the trunk of a plant as this causes bark damage avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.10 Are fixings driven into plants avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.11 Are the plants used for anchoring or winching purposes or for the display of signs avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.12 Are the fire lit below the branches and petrol, oil or caustic substances stored near the plants avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.13 Are all plants kept free from pest, disease or fungal infection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.14 Are there enough area for growth and development of plant roots?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.15a Is exposure of plant roots avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.15b If not, were broken off or rotting of roots avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Monthly Monitoring of Flora Species of Conservation Interest  
 Service Contract No. NDO 07/2019  
 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
<b>2. <u>Ladies Tresses <i>Spiranthes sinensis</i></u></b>						
2.1	Are the plants' health conditions satisfactory?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.2	Are transplanted plants on site protected carefully?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.3	Are the temporary protective fence properly erected and maintained?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.4	Are the plant protection zone set 1m from the plants?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.5	Are all grassed and planted area kept free from weeds/unwanted plants?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.6	Is compaction of the soil avoided for the plants?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.7	Are litter/ unwanted material removed within the planting area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.8	Are equipment or stockpile placed outside the protection zone?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.9	Are soil, debris or construction materials deposited around and against the trunk of a plant as this causes bark damage avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.10	Are fixings driven into plants avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.11	Are the plants used for anchoring or winching purposes or for the display of signs avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.12	Are the fire lit below the branches and petrol, oil or caustic substances stored near the plants avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.13	Are all plants kept free from pest, disease or fungal infection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.14	Are there enough area for growth and development of plant roots?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.15a	Is exposure of plant roots avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.15b	If not, were broken off or rotting of roots avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>3. <u>Fortune's Keteleeria <i>Keteleeria fortunei</i></u></b>						
3.1	Are the trees' health conditions satisfactory?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.2	Are existing trees to be retained on site protected carefully?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.3	Are the temporary protective fence properly erected and maintained?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.4	Are the trees protection zone set 1m from the trees?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.5	Are all grassed and planted area kept free from weeds/unwanted plants?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.6	Is compaction of the soil avoided for the trees?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.7	Are litter/ unwanted material removed within the planting area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.8	Are equipment or stockpile placed outside the protection zone?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.9	Are soil, debris or construction materials deposited around and against the trunk of a trees as this causes bark damage avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.10	Are fixings driven into trees avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.11	Are the trees used for anchoring or winching purposes or for the display of signs avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.12	Are the fire lit below the branches and petrol, oil or caustic substances stored near the trees avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.13	Are all trees kept free from pest, disease or fungal infection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.14	Are there enough area for growth and development of tree roots?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.15a	Is exposure of tree roots avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.15b	If not, were broken off or rotting of roots avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.16	Are wounds/mechanical injuries avoided on tree trunk?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.17	Are leaning of trees avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.18	Are dead/detached branches avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.19	Are decay/cavity avoided on tree trunks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Monthly Monitoring of Flora Species of Conservation Interest  
 Service Contract No. NDO 07/2019  
 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

		N/A or not observed	Yes	No	Follow-up	N/C	Remarks
<b>4.</b>	<b><u>Incense Tree <i>Aquilaria sinensis</i></u></b>						
4.1	Are the trees' health conditions satisfactory?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.2	Are existing trees to be retained on site protected carefully?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.3	Are the temporary protective fence properly erected and maintained?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.4	Are the trees protection zone set 1m from the trees?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.5	Are all grassed and planted area kept free from weeds/unwanted plants?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.6	Is compaction of the soil avoided for the trees?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.7	Are litter/ unwanted material removed within the planting area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.8	Are equipment or stockpile placed outside the protection zone?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.9	Are soil, debris or construction materials deposited around and against the trunk of a trees as this causes bark damage avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.10	Are fixings driven into trees avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.11	Are the trees used for anchoring or winching purposes or for the display of signs avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.12	Are the fire lit below the branches and petrol, oil or caustic substances stored near the trees avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.13	Are all trees kept free from pest, disease or fungal infection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.14	Are there enough area for growth and development of tree roots?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.15a	Is exposure of tree roots avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.15b	If not, were broken off or rotting of roots avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.16	Are wounds/mechanical injuries avoided on tree trunk?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.17	Are leaning of trees avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.18	Are dead/detached branches avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.19	Are decay/cavity avoided on tree trunks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Monthly Monitoring of Flora Species of Conservation Interest  
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 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

Part C Follow-up for the Previous Site Audit on Date: _____ (Ref. No. _____)		N/A or not observed	Yes	No	Follow-up	N/C	Remarks
1.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
7.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
8.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
9.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
10.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

**Remarks/Observations**

**Signatures:**

ET Auditor

*Supervisor's Rep.*

Contractor's Representative

\_\_\_\_\_  
 (Name: \_\_\_\_\_ )  
 (Date: \_\_\_\_\_ )

\_\_\_\_\_  
 (Name: \_\_\_\_\_ )  
 (Date: \_\_\_\_\_ )

\_\_\_\_\_  
 (Name: \_\_\_\_\_ )  
 (Date: \_\_\_\_\_ )

IEC Auditor

\_\_\_\_\_  
 (Name: \_\_\_\_\_ )  
 (Date: \_\_\_\_\_ )

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**APPENDIX E**  
**IMPLEMENTATION SCHEDULE**

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## Detailed Vegetation Survey Report - Implementation Schedule (IS)

The Permit Holder and any person constructing (or “operating” as the case may be) the Project shall fully implement all mitigation measures in this Plan/Report. Key measures are included in the Implementation Schedule (IS) below for focusing on key issues and easier checking. However, all measures in this Plan/Report, whether included in the IS or not, shall be fully carried out.

Recommended Mitigation Measures	Objective of the Measures	Who to Implement / Maintain the Measures?	Location of the Measures	When to Implement the Measures?	Reference to paragraph(s) in this Detailed Vegetation Survey Report
<p><b>Identification of Plant Species of Conservation Importance to be Retained / Transplanted</b></p> <p>To mark trees/plants proposed to be retained and to be transplanted on the layout plan prior to commencement of site construction works.</p>	<p>To identify the plant species of conservation importance and ensure no plant species of conservation importance / retained tree will be affected.</p>	<p>Contractor / Resident Site Engineer / ET / IEC</p>	<p>Project Site Area(s)</p>	<p>During design stage / throughout construction stage / Until completion of all construction activities</p>	<p>Refers to para(s) 4.11 of the Detailed Vegetation Survey Report</p>
<p><b>Protection of Plant Species of Conservation Importance prior to Site Clearance / Transplantation Works</b></p> <p>a) No site clearance shall be started at the locations of flora species of conservation interest until the transplantation works completed.</p> <p>b) Set up buffer zone to enhance the protection of flora species of conservation importance to be</p>	<p>To make sure that the flora species of conservation interest are not affected by the site clearance works of the Project</p>	<p>Contractor / Resident Site Engineer / ET / IEC</p>	<p>Location(s) of Plant Species of Conservation Importance and Transplantation Area(s) for Plant Species of Conservation Importance</p>	<p>Prior to Site Clearance / Transplantation Works</p>	<p>Refers to para(s) 4.9 and 4.10 of the Detailed Vegetation Survey Report</p>

## Detailed Vegetation Survey Report - Implementation Schedule (IS)

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Recommended Mitigation Measures	Objective of the Measures	Who to Implement / Maintain the Measures?	Location of the Measures	When to Implement the Measures?	Reference to paragraph(s) in this Detailed Vegetation Survey Report
preserved / transplanted including the proposed location for transplantation when the site clearance works shall commence before the transplantation works completed.					
<p><b>Temporary Protective Fence for Flora Species of Conservation Interest / Retained Tree</b></p> <p>a) To erect a temporary protective fence enclosing the flora species of conservation interest identified under the detailed vegetation survey.</p> <p>b) To set up a protection zone at least 1m from the plant / retained tree and erect robust, bright-coloured fencing of 1.5m in height.</p>	To avoid potential impact on flora species of conservation importance / retained tree from construction activities such as materials storage; To make sure that the flora species of conservation interest / retained tree are not affected by the construction activities of the Project	Contractor / Resident Site Engineer / ET / IEC	Location(s) of Plant Species of Conservation Importance / Retained Tree	Throughout construction stage / Until completion of all construction activities	Refers to para(s) 4.4 and 4.11 of the Detailed Vegetation Survey Report

## Detailed Vegetation Survey Report - Implementation Schedule (IS)

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Recommended Mitigation Measures	Objective of the Measures	Who to Implement / Maintain the Measures?	Location of the Measures	When to Implement the Measures?	Reference to paragraph(s) in this Detailed Vegetation Survey Report
<p><b>Maintenance of the Protection Zone for Flora Species of Conservation Interest / Retained Tree</b></p> <p>a) Monthly monitoring of flora species of conservation interest identified in the detailed vegetation survey should be conducted.</p> <p>b) To inspect the temporary protective fence whether it is properly erected and maintained during construction.</p>	<p>To avoid potential impact on flora species of conservation importance / retained tree from construction activities such as materials storage; To make sure that the flora species of conservation interest / retained tree are not affected by the construction activities of the Project</p>	<p>Contractor / Resident Site Engineer / ET / IEC</p>	<p>Location(s) of Plant Species of Conservation Importance / Retained Tree</p>	<p>Throughout construction stage / Until completion of all construction activities</p>	<p>Refers to para(s) 4.4 and 4.11 of the Detailed Vegetation Survey Report</p>
<p><b>Other Protection Measures for Flora Species of Conservation Interest / Retained Tree / Vegetated Areas</b></p> <p>a) All works should be confined within the site</p>	<p>To avoid potential impact on Flora Species of Conservation Interest / Retained Tree /</p>	<p>Contractor / Resident Site Engineer / ET / IEC</p>	<p>Project Site Area(s)</p>	<p>Throughout construction stage / Until completion of</p>	<p>Refers to para(s) 4.11 of the Detailed Vegetation</p>

## Detailed Vegetation Survey Report - Implementation Schedule (IS)

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Recommended Mitigation Measures	Objective of the Measures	Who to Implement / Maintain the Measures?	Location of the Measures	When to Implement the Measures?	Reference to paragraph(s) in this Detailed Vegetation Survey Report
<p>boundary.</p> <p>b) Access of site staff should be controlled.</p> <p>c) Care should be taken to prevent trees/plants being damaged by mechanical equipment or stockpile both during site clearance works and construction works.</p> <p>d) No fixings should be driven into trees/plants.</p> <p>e) No workshop, canteens, or similar should be installed beneath trees/plants, nor will equipment maintenance etc. be carried out under trees/plants.</p> <p>f) No excavation, including that for services or changes in ground level will take place within the spread of the crown of the trees / plants.</p> <p>g) No soil, debris or construction materials should be deposited around and against the trunk of a tree/plant as this causes bark damage and</p>	<p>Vegetated Areas from construction activities of the Project</p>			<p>all construction activities</p>	<p>Survey Report</p>

## Detailed Vegetation Survey Report - Implementation Schedule (IS)

The Permit Holder and any person constructing (or “operating” as the case may be) the Project shall fully implement all mitigation measures in this Plan/Report. Key measures are included in the Implementation Schedule (IS) below for focusing on key issues and easier checking. However, all measures in this Plan/Report, whether included in the IS or not, shall be fully carried out.

Recommended Mitigation Measures	Objective of the Measures	Who to Implement / Maintain the Measures?	Location of the Measures	When to Implement the Measures?	Reference to paragraph(s) in this Detailed Vegetation Survey Report
<p>compaction of the soil.</p> <p>h) No fire should be lit below the branches and no petrol, oil or caustic substances stored near the trees/plants.</p> <p>i) No trees/plants should be used for anchoring or winching purposes or for the display of signs.</p> <p>j) Any damage or injury to the retained / transplanted plants should be reported as soon as possible for repair immediately.</p>					