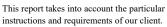
Airport Authority Hong Kong

Hong Kong – Zhuhai – Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) – Inbound Carpark A (Phase 1) and Inbound Carpark B (Phase 1)

Landscape and Visual Plan

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It is not intended for and should not be relied upon by any third party and no responsibility is undertaken to any third party.





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Abbreviations

Abbreviations	Description
3RS	
	Three-runway System
AAHK	Airport Authority Hong Kong
AHR	Airport Height Restriction
APS	Automated Parking System
Arup	Ove Arup and Partners Hong Kong Limited
AWE	AsiaWorld-Expo
CFA	Construction Floor Area
CLP	China Light & Power Company Limited
C&SD	Census and Statistics Department
EIA	Environmental Impact Assessment
EIAO	Environmental Impact Assessment Ordinance
EP	Environmental Permit
ER	Environmental Review
EV	Electric Vehicle
FCF	Food Control Facility
FHB	Food and Health Bureau
FTE	Full-time Equivalent
GBA	Guangdong-Hong Kong-Macao Greater Bay Area
GFA	Gross Floor Area
GSE	Ground Support Equipment
HKBCF	Hong Kong Boundary Crossing Facilities
HKP	Hong Kong Port
HKIA	Hong Kong International Airport
HKIAA	Hong Kong International Aviation Academy
HKSAR	Hong Kong Special Administrative Region
HZMB	Hong Kong-Zhuhai-Macao Bridge
ICPs	Inbound Carparks
ITT	Intermodal Transfer Terminal
LEA	Law Enforcement Agency
LR	Landscape Resource
LCA	Landscape Character Area
NEF	Noise Exposure Forecast
OU	Other Specified Uses
OZP	Outline Zoning Plan
PCB	Passenger Clearance Building
PEA Study	Planning, Engineering and Architectural Study for Topside Development
	at HKBCF Island
RRF	Refuse and Recycling Facility
STP	Sewage Treatment Plant
STT	Short Term Tenancy
TM-EIAO	Technical Memorandum - Environmental Impact Assessment Ordinance
TM-CLKL	Tuen Mun – Chek Lap Kok Link
TSE	Treated Sewage Effluent
VA	Value Added
VCP	Vehicle Clearance Plaza

1 Introduction

1.1 Background

- 1.1.1.1 The Environmental Impact Assessment (EIA) Report (Register No. AEIAR-145/2009) (hereafter referred as "the approved EIA Report) and the Environmental Monitoring and Audit (EM&A) Manual (hereafter referred as "the approved EM&A Manual") was presented together for the Hong Kong Zhuhai Macao Bridge (HZMB) Hong Kong Boundary Crossing Facilities (HKBCF) and Hong Kong Link Road (HKLR) as they are closely interrelated. The EIA Report for the HZMB HKBCF was approved in 2009.
- 1.1.1.2 Pursuant to Sections 10 & 12 of the Environmental Impact Assessment Ordinance (the EIAO), the further Environmental Permit (EP No. FEP-02/353/2009/K) was granted to "Airport Authority" (hereinafter referred to as the "Permit Holder") in Dec 2020 to construct the designated project Hong Kong-Zhuhai-Macao Bridge (HZMB) Hong Kong Boundary Crossing Facilities (HKBCF) "Inbound Carpark A (Phase 1) and Inbound Carpark B (Phase 1)" (hereafter referred as "the Project").
- 1.1.1.3 As stipulated in Condition 2.4 of EP No. FEP-02/353/2009/K, "The Permit Holder shall deposit with the Director, at least 1 month before the commencement of construction of relevant part of the Project, three hard copies and one electronic copy of a landscape and visual plan incorporating aesthetic architectural design on buildings structures and related infrastructure of the Project, streetscape elements, planting proposals and other measures including night-time lighting control."
- 1.1.1.4 To fulfil Condition 2.4 of the EP, the Landscape and Visual Plan of the Project have been prepared, certified by the relevant Environmental Team Leaders (ETLs) (see Appendix A1), verified by the Independent Environmental Checker (IEC) (see Appendix A2), and submitted to the Director of Environmental Protection (DEP) at least 1 month before the commencement of construction of relevant parts of the contract.
- 1.1.1.5 For HKBCF, Highways Department is comprising the landscape works under Contract No. HY/2019/01 at the current stage, the extent of this contract is shown in **Figure 1.1** for reference. The Landscape and Visual Plan of Inbound Carparks (ICPs) (hereinafter referred to as "this LVP") has incorporated the tree planting information as presented in the Tree Planting Plan of Contract No. HY/2019/01.
- 1.1.1.6 The LVP of the HZMB HKBCF (Agreement No. CE 13/2010 (CE)) had been previously submitted and approved by the DEP in April, 2021, the report indicates that part of the areas on HKBCF (within the area of Contract no. HY/2013/02 (C2)) will be taken up by Airport Authority Hong Kong (AAHK) for the Project (see **Figure 1.1**). Hence, the landscape and visual mitigation measures implemented under HKBCF contracts in these areas (including 36 trees already planted and 115 trees to be planted) will be superseded and included in this LVP. All the landscape and visual mitigation measures for these affected areas will be fully covered by AAHK's upcoming works as stipulated in the further EP for the Project (EP No. FEP-02/353/2009/K).

1.2 Project Description

1.2.1.1 The construction works under the Project comprise the following provisions:

- (a) 2 nos. above-ground carpark buildings for automated parking systems (APS), namely Inbound Carpark A (Phase 1) & Inbound Carpark B (Phase 1) for the provision of approximately 1,800 and 1,000 automatic parking spaces respectively, including all related structural, foundation, building services, IT, electronical and mechanical systems, and supply and installation of the APS;
- (b) Ancillary facilities including structural, system connection and fitting-out for Departure and Arrival Lounge with check-in counters, waiting area and toilets; integrated checking kiosks; and secondary search area for LEAs; and
- (c) Associated roadworks including modification of the internal service road, vehicle clearance plaza and ITT bonded bus routing; and civil utilities including the reprovisioning of existing facilities such as existing toilet, mobile antenna, CCTV and high-mast lighting etc.
- 1.2.1.2 Landscape works under the Project include the following:
 - (a) Construction of landscape hardworks, including
 - Pedestrian paving
 - (b) Construction of landscape softworks, including
 - New Tree planting
 - Shrub planting
 - Groundcover planting
 - Turfing

1.3 Purpose and Scope

1.3.1.1 This LVP for the ICPs aims to demonstrate the landscape and visual design and mitigation measures adopted in the detail design stage, construction phase and operation phase with reference to Section 14 – Landscape and Visual Impact Assessment (LVIA) of the approved EIA Report and EM&A Manual. Design measures developed during the detailed design stage to remedy and compensate unavoidable impacts in accordance with the approved EIA Report will be discussed in the subsequent sections of this LVP.

Tree Felling and Compensatory Tree Planting Proposal in the Affected Areas

2.1 General

2.1.1.1 As stated in **Section 1.1.1.6**, subsequent to the approval of the LVP HZMB HKBCF (Agreement No. CE 13/2010 (CE)) in April 2021, updates which affect the implementation of the landscape and visual mitigation measures implemented under HKBCF contracts in the affected areas (including 36 trees already planted and 115 trees to be planted) are required to be incorporated in this LVP.

2.2 Impacts on Planted Trees and Planned Trees

2.2.1.1 According to the latest design information, 115 nos. of the planned trees and 36 planted trees (under contract No. HY/2019/01) are in direct conflict with the proposed layout of ICPs, the location of these affected trees are indicated in **Figure 2.1**. Summary of the affected trees are listed in **Table 2.1**.

Table 2.1 Summary of the affected trees

Scientific name	Chinese name	Specification [1]	Spacing	Quantity
Cassia siamea	鐵刀木	Standard Tree	4	10
Jacaranda acutifolia	藍花楹	Standard Tree	4	129
Plumeria rubra	雞蛋花	Standard Tree	4	12

^[1] Specification: Standard Tree shall be in accordance with GS clause 3.14

2.3 Tree Felling and Compensatory Tree Planting Proposal

Total 36 planted trees (*Jacaranda acutifolia* 藍花楹) are proposed to be felled. Given this species is vulnerable to strong winds due to its brittle wood, it is not suitable to transplant at the waterfront area. Besides, this species is not the approved tree species of the HKIA APSL (Revision 6.0 August 2021). The felled trees are proposed to compensate at the southern portion on HKBCF. The compensatory tree species should comply with the planting restrictions in respective Zones of HKIA as stipulated in HKIA APSL (Revision 6.0 August 2021). In addition, 115 affected planned trees will be proposed to the new locations. The proposed new locations are shown in **Figure 2.2**. The proposed compensatory planting schedule are listed below in **Table 2.2** for reference:

Table 2.2 Proposed compensatory tree planting species

Species	Chinese Name	Specification [2]	DBH(mm)	Spacing (m)	Quantity (No.)
Plumeria rubra	雞蛋花	Heavy Standard Tree	100	4	36
Callistemon viminalis	串錢柳	Heavy Standard Tree	100	4	115

3 Design Considerations

3.1 Landscape and Visual Design Measures in the approved EIA and EM&A Manual

- 3.1.1.1 In Section 14.3.3.2 of the approved EIA Report and Section 14.2.4 of the EM&A Manual, design measures are proposed as landscape and visual mitigation measures during detailed design stage. These mitigation measures are considered and will be adopted during construction as far as practicable.
- 3.1.1.2 Some of these design measures are applicable to HZMB HKLR but not HKBCF. Relevance of these design measures to the Project will be discussed in Section 5.
- 3.1.1.3 The design measures as extracted from Section 14.3.3.2 of the approved EIA Report are listed below for easy reference.
 - Roadside planting and planting along the edge of the reclamation is proposed;
 - Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory hydro-seeding and planting;
 - Protection measures for the trees to be retained during construction activities;
 - Optimizing the sizes and spacings of the bridge columns;
 - Fine-tuning the location of the bridge columns to avoid visually-sensitive locations;
 - Aesthetic design of the bridge form and its structural elements for HKLR, e.g. parapet, Soffit, columns, lightings and so on;
 - Considering the decorative urban design elements for HKLR, e.g. decorative road lightings;
 - Maximizing new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed;
 - Providing planting area around peripheral of HKLR and HKBCF for tree planting screening effect;
 - Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline;
 - For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for Passenger Clearance Building (PCB) building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonic atmosphere of the HKBCF;
 - Fine-tuning the sizes of the structural members to minimize the bulkiness of buildings and adjustment of building arrangement to minimise disturbance to surrounding vegetation in the HKBCF; and
 - For HKLR, providing aesthetic design on the viaduct, tunnel portals, at-grade roads and reclamation (e.g. subtle colour tone and slim form for viaduct to

minimize the bulkiness of the structure and to blend the viaduct better with the background environment, featured form of tunnel portals, roadside planting along at-grade roads and landscape berm on & planting along edge of reclamation area) to beautify the HKLR alignment.

3.2 Landscape Design Considerations

- 3.2.1.1 HKBCF is located very close to the Hong Kong International Airport (HKIA) and underneath the air-flight route. In this connection, all landscape planting proposed have to adhere to the HKIA Approved Plant Species List (APSL) (Revision 6.0 August 2021) (see **Appendix B**).
- 3.2.1.2 According to the zoning plan of the Airport Island for existing platform and future Third Runway System (3RS) presented as Figure 1 in the HKIA APSL (Revision 6.0 August 2021), the works areas of ICPs fall within Zone 2a. The relevant restrictions on planting design in Zone 2 and Zone 2a are extracted below for easy reference:

Section 5 – Zone 2

In this zone climbers, palms, cycads, trees or shrubs are acceptable only if they do not produce fleshy fruit. Species, height and canopy structure of most of the existing, planted palms, cycads and trees have been strictly reviewed and managed to control their spread and height so as not to be attractive to birds. With the support of routine bird monitoring data and practical tree maintenance practice, the majority of the existing palms, cycads and trees have been restricted to a height range of 5-10m. The exceptions are some areas with mature trees or tree groups (such as Casuarina equisetifolia along Chun Wan Road, and Delonix regia next to Catering Road West) that are at least 10m in height, which have been present since airport inception (Figure 2). These trees and tree groups are present along busy roads (e.g. Chun Wan Road and Catering Road West) and are separated from the runway by tall buildings. Implementing a height restriction (5-10m) on these existing trees may require excessive pruning of canopies, which could negatively influence overall tree structures. Routine bird monitoring has revealed that these areas are not very attractive to birds. In addition, for all existing planted palms, cycads and trees, their suitability and horticultural maintenance practice will be regularly reviewed by AAHK, and their attraction to birds will be monitored by AAHK's bird control service consultant.

As a precautionary measure and for effective horticultural maintenance, a height restriction of 5-10m applies to future planting of palms, cycads and trees; in addition, trees that could produce a spreading crown and/or develop a tall structure should be avoided. The selection of small trees is preferred as a long-term management and maintenance approach to future planting in this zone.

Future planting of palms, cycads, ravenala, bamboos and trees should be in groups of 50 individuals or fewer. The area of each tree group should not exceed 150m2, and shrubs / climbers should be planted in areas of no more than 500m2. Routine horticultural maintenance should be carried out to maintain vegetation groups of smaller sizes as far as practical. The height restriction of existing and newly-planted shrubs is 1.5m.

Existing planted palms, cycads, ravenala, bamboos, trees and shrubs are monitored by AAHK's bird control service consultant for usage by birds, and by AAHK. The planted area can be no more than 500 m2 for palms, cycads ravenala,

bamboos and trees, and 1,000m2 for shrubs and climbers. The linear segregation for adjacent groups of palms, cycad, ravenala, bamboo, trees and shrubs should be at least 50m; however, this segregation restriction can be relaxed if the plantation is assessed as not creating significant or hazardous attraction to birds by AAHK's bird control service consultant.

Trees that produce fleshy fruits should be avoided in future planting in Zone 1, 2, 2a and areas in Zone 3 close to the runway and the airfield. Should new fleshy fruit-bearing tree individuals be proposed and/or planted in these zones, strong justification for such proposal should be provided.

Section 5 – Zone 2a

Zone 2a has been formulated based on existing planting guidelines and maintenance practice in Zone 2, including a prohibition on planting fleshy fruit bearing plants and a requirement for regular shrub pruning, to avoid creating a habitat that might be used by large numbers of birds, in particular hazardous species. The relaxation of planting area for shrubs and trees releases landside area (e.g., planting areas underneath highways with high vertical clearance and considerable sunlight from both sides) for soft landscaping and tree transplanting in the future.

Most of the plant species that are acceptable in Zone 2 are permitted in Zone 2a. However, in view of the more exposed environment at HKP, trees that are vulnerable to strong wind should be avoided. Any landscape proposals for new tree planting or transplantation to this zone should take into account sensitivity to exposed sites, and be reviewed by the Airfield Department for approval on a case-by-case basis.

Future planting of shrubs and climbers should be in areas of no more than 1000m2, while the height restriction on newly-planted shrubs remains at 1.5m. Planting of palms, cycads, ravenala, bamboos and trees should be in groups not exceeding 500m2, with a linear separation of tree groups of at least 50m. The height restriction on palms, cycads and trees is 5-10m, and planting of small-sized palms, cycads and trees are preferable as a long-term plant management approach in this zone. Should tree species of a mature size exceeding 10m be planted in the future, routine horticultural maintenance should be carried out to control height.

Transplantation of trees from the airport island to the HKP is acceptable if the above principles are adopted. Planting guidelines and restrictions on newly planted trees in Zone 2a are also applicable to the trees transplanted to HKP.

- 3.2.1.3 Within Zone 2a, other than the tree planting restrictions stipulated in HKIA APSL (Revision 6.0 August 2021), the following also pose constraints on tree planting and landscape treatment on the HKBCF:
 - Public Lighting Design Manual (PLDM) (2nd Edition: September 2006)

As stipulated in PLDM (2nd Edition: September 2006), "trees shall be planted 5m away from the lighting columns". Hence, there is a no tree zone with a 5m radius at each of the public lighting column on the HKBCF.

Areas Reserved for Future Development

There are a few areas on the HKBCF which are reserved for potential future development as shown in **Figure 3.1**. Tree planting is not recommended in

these areas because trees are anticipated to be removed in these areas in the near future to cater for future development.

Areas under Shade

Areas under shade are not suitable for tree planting as the environment is not favourable for healthy development of trees. Such areas include places under the canopy cover of various building structures and under viaducts.

• Systematic Identification of Maintenance Responsibility (SIMAR) Slopes

Trees are not recommended on SIMAR slopes because the SIMAR slopes are on the embankments of viaducts. Trees may affect the sightline of road / viaduct traffic. Also, tree failure on these SIMAR slopes may pose safety hazard to road users.

Hard-paved Areas

Tree planting is not feasible in hard-paved areas reserved for road traffic access.

• Underground Utilities and Structures

Reasonable amount of land area is reserved for accommodation of underground public utilities and under structures. Tree planting in these areas are undesirable because trees may obstruct the necessary maintenance works of underground utilities and structures.

3.2.1.4 In addition, to minimize potential landscape and visual impact, other than maximizing greening opportunities, aesthetic architectural design on all above-ground structures to provide a harmonized effect on HKBCF and the adjacent Airport Island is therefore also a key design consideration.

4 Adopted Design Measures in Detail Design Stage

4.1 Landscape and Visual Design Measures Adopted in Inbound Carparks Project

- 4.1.1.1 During the detailed design stage, the proposed landscape and visual design measures in Section 14.3.3.2 of the approved EIA Report and Section 14.2.4 of the EM&A Manual are considered. They are proposed and adopted as far as practicable.
- 4.1.1.2 The following sections summarize the development of relevant design measures relevant to the Project as recommended in the approved EIA Report and EM&A Manual.

Table 4.1 Adopted Design Measures

Design Measures in the Approved EIA Report and EM&A Manual	Applicable/ Non-Applicable to ICPs	Justifications
Roadside planting and planting along the edge of the reclamation is proposed	Not applicable to the Project	No reclamation works is proposed in the Project.
Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory hydro-seeding and planting	Not applicable to the Project	No mature trees are found within the development area of ICPs. Hence, transplantation of mature trees is not relevant to the Project. For the disturbed areas within the development boundary of ICPs, they will be reinstated to their former state with hydroseeding and planting up to the satisfaction of Airport Authority, the future maintenance agent of the reinstated areas.
Protection measures for the trees to be retained during construction activities	Not applicable to the Project	No trees are proposed to be retained.
Optimizing the sizes and spacings of the bridge columns	Not applicable to the Project	This design measure is applicable to HKLR, not HKBCF.
Fine-tuning the location of the bridge columns to avoid visually-sensitive locations	Not applicable to the Project	This design measure is applicable to HKLR, not HKBCF.
Aesthetic design of the bridge form and its structural elements	Not applicable to the Project	This design measure is applicable to HKLR, not HKBCF

Design Measures in the Approved EIA Report and EM&A Manual	Applicable/ Non-Applicable to ICPs	Justifications
for HKLR, e.g. parapet, Soffit, columns, lightings and so on		
Considering the decorative urban design elements for HKLR, e.g. decorative road lightings	Not applicable to the Project	This design measure is applicable to HKLR, not HKBCF.
Maximizing new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed	Applicable to the Project	Total 36 affected planted trees are proposed to be felled and compensated at the promenade on HKBCF. The proposed location for the compensatory trees is shown in Figure 2.2 .
Providing planting area around peripheral of HKLR and HKBCF for tree planting screening effect	Not applicable to the Project	No additional visual impacts will be generated by the Project (refer to Section 5 of this LVP).
Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline	Not applicable to the Project	No reclamation works is proposed in the Project.
For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonic atmosphere of the HKBCF	Applicable to the Project	For the proposed aesthetic architectural design on the ICPs, the design of the façade elevation (as shown in Figure 4.1 and 4.3) has adopted a sinuous and organic form that echoes the repeating wave elements in the vicinity, including the surrounding sea, the mountain ridge in the backdrop, the Airport terminal building and the PCB canopy. The use of transparent glass is necessary to comply with fire safety regulations and allows for the provision of necessary openable windows for smoke control. The modular and pixelated waveform of the elevation also evokes high-tech design (as shown in Figure 4.2 and 4.4) to reflect the automated parking system housed within.

Design Measures in the Approved EIA Report and EM&A Manual	Applicable/ Non-Applicable to ICPs	Justifications
		In order to comply with Fire Safety regulations, a number of vertical voids are provided throughout the carpark building, with multiple louvres and weather-protection dog house protruding at the R/F. Fireman lifts and staircases are also provided at regular spacing to provide maintenance and emergency access and means of escape, which have protruding machine rooms at the R/F as well. These, along with the large number of protruding machine rooms for the vehicle lifts needed to operate the automatic parking system, create a highly complex and irregular roof layout which make it difficult to provide roof greening for the ICPs.
		Due to the complex and strict security concerns at the site, the majority of the at-grade area outside the building extent are reserved for the Integrated Checking Kiosk and Secondary Search Area to provide security checking and operations as required by the LEAs. Additionally, the existing verge area between Shun Hang Road and the internal service road will be reduced to 2.5m which will be too narrow for tree planting. Soft landscape similar to the existing turfing shall be provided along the roadside at this location.
		In addition, a "no-man zone" concept is adopted to operate the automated parking system in the two inbound carparks. The proposed carparking facilities are at the Hong Kong Boundary Crossing area/ Closed Area and within the restricted zone, in which the facility owner or operator must ensure a proper facility security to prevent unauthorised access or activities. Automated Parking System (APS), where the vehicle storage is an

Design Measures in the Approved EIA Report and EM&A Manual	Applicable/ Non-Applicable to ICPs	Justifications
		unmanned zone (no-man zone) to avoid the possibility of breaching any current HK legislations, is adopted for accommodating the inbound vehicles in order to confine and control the access within the area. Adoption of APS minimizes access to the no-man zone (vehicle storage, which is 1/F and above) even due to necessary operation and maintenance. Thus, nonessential provisions should be refrained to avoid possible disruption and/or intrusion to the no-man zone.
		Besides isolation between no-man zone (1/F and above) and public area, Visitor Departure zone (M/F) and Arrival zone (G/F) of the proposed car-parking facilities are required to be segregated in order to tally with the operation and security arrangement as Passenger Clearance Building (PCB). Demarcation among the Departure zone (M/F), Arrival zone (G/F), Closed Area and Restricted Area is not simply by sectional lines in stratum, but also along elevations. Thus, nonessential provisions and or connection between Departure zone (M/F) and Arrival zone (G/F) should be refrained similar to the isolation principle of no-man zone & public area arrangement. It is therefore considered not desirable to provide any greenery within the two inbound carparks to strike a balance between the operation and security needs. As a result, further landscape measures have been explored on the ground level area within the site boundary and illustrated in Figure 4.6 and Figure 6.1. An addition of about 600 m² greenery areas have been proposed at the ground floor of Carpark B to maximise the greening

Design Measures in the Approved EIA Report and EM&A Manual	Applicable/ Non-Applicable to ICPs	Justifications
Fine-tuning the sizes of the structural members to minimize the bulkiness of buildings and adjustment of building arrangement to minimise disturbance to surrounding vegetation in the HKBCF	Applicable to the Project	The building shall house a minimum of 1,800 and 1,000 car parking spaces at Inbound Carpark A (Phase 1) and Inbound Carpark B (Phase 1) respectively to meet the required capacity as stipulated in the CE's 2021 Policy Address. As such, the building extent is maximised at the available site area. Additionally, the building shape shall be regular to suit the operation of the APS housed within, and at-grade areas need to be reserved to provide facilities as requested by the Law Enforcement Agencies to ensure safe, secure and segregated users at the automated carpark buildings. Structural members are sized to ensure the strict deflection tolerance and criteria are met to suit the operation of the sensitive equipment of APS. To minimise bulk, the building shall not encroach above the top of the PCB building located in the vicinity.
For HKLR, providing aesthetic design on the viaduct, tunnel portals, at-grade roads and reclamation (e.g. subtle colour tone and slim form for viaduct to minimize the bulkiness of the structure and to blend the viaduct better with the background environment, featured form of tunnel portals, roadside planting along at-grade roads and landscape berm on & planting along edge of reclamation area) to beautify the HKLR alignment.	Not applicable to the Project	This design measure is applicable to HKLR, not HKBCF.

5 Mitigation Measures and Maintenance in Construction and Operational Stages

5.1 Landscape and Visual Mitigation Measures in the Construction and Operational Stages

- 5.1.1.1 In Section 14.3.3.3 of the approved EIA Report and Section 14.2.5 of the EM&A Manual, landscape and visual mitigation measures are proposed for construction and operational stages. These mitigation measures are considered and will be adopted during construction and operation as far as practicable.
- 5.1.1.2 In the approved EIA Report, 14 out of 32 identified Visually Sensitive Receivers (VSRs), namely VSR19 to VSR32, are relevant to HKBCF (see **Figure 5.1**). Hence, only photomontages with mitigation measures targeted for these 14 VSRs are shown in **Figures 5.2** to **Figure 5.15**.
- 5.1.1.3 Given the accessibility and limited viewing angle of the original VSRs in the approved EIA, the location and viewing angle of 8 VSRs have been adjusted in this LVP, the amendments are listed as follows:
 - Given VSR19 is no longer accessible, the original location of VSR 19 has revised from Coastal Skyline to Yi Tung Park.
 - Given VSR20 is no longer accessible, the original view of VSR 20 has revised from the roof top of City Gate to the public foot bridge along Tat Tung Road.
 - Given VSR25 is no longer accessible, the original view of VSR 25 has revised from the open sea to the MTR Siu Ho Wan Depot.
 - Given VSR29 is no longer accessible, the original location of VSR 29 has revised from Luk Hop Yuen Kung to the rocky shore along Tai Ho Wan.
 - Given VSR31 is no longer accessible, the original location of VSR 31 has revised from Hong Kong Skycity Marriott Hotel to the construction site near Sky City Road East.
 - The viewing angle for VSR26, VSR28 and VSR 32 have revised to direct towards the proposed development.
- 5.1.1.4 Implementation details of mitigation measures under the Project are summarized in below table. AAHK will be responsible for the implementation of the respective mitigation measures, including the landscape construction works and the maintenance during the establishment period. **Appendix C** shows the implementation schedule of all landscape and visual mitigation measures.

Table 5.1 Landscape and Visual Mitigation Measures in Construction and Operational Stages

Mitigation Code	Mitigation Measures in the Approved EIA Report and EM&A Manual	Applicable/ Non- Applicable to ICPs	Justifications
Constructio	n Phase		
G1	Grass-hydroseed bare soil surface and stock pile areas.	Not applicable to the Project	No reclamation works is proposed in the Project.
G2	Add planting strip and automatic irrigation system if appropriate at some portions of bridge or footbridge to screen bridge and traffic.	Not applicable to the Project	This design measure is applicable to HKLR, not HKBCF.
G3	For HKLR, providing aesthetic design on the viaduct, tunnel portals, atgrade roads and reclamation (e.g. subtle colour tone and slim form for viaduct, aesthetic design of the bridge form and its structural elements including the parapet, soffit, columns and so on and decorative urban design elements and lightings for the HKLR; featured form of tunnel portals, roadside planting along at-grade roads and landscape berm on & planting along edge of reclamation area) to beautify the HKLR alignment.	Not applicable to the Project	This design measure is applicable to HKLR, not HKBCF.
G4	For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated	Applicable to the Project	For the proposed aesthetic architectural design on the ICPs, the design of the façade elevation (as shown in Figure 4.1 and 4.3) has adopted a sinuous and organic form that echoes the repeating wave elements in the vicinity, including the surrounding sea, the mountain ridge in the

Mitigation Code	Mitigation Measures in the Approved EIA Report and EM&A Manual	Applicable/ Non- Applicable to ICPs	Justifications
Constructio	n Phase		
	footbridges) to provide harmonic atmosphere of the HKBCF (see Figure 14.3.1 for example).		backdrop, the Airport terminal building and the PCB canopy. The use of transparent glass is necessary to comply with fire safety regulations and allows for the provision of necessary openable windows for smoke control. The modular and pixelated waveform of the elevation also evokes hightech design (as shown in Figure 4.2 and 4.4) to reflect the automated parking system housed within. In order to comply with Fire Safety regulations, a number of vertical voids are provided throughout the carpark building, with multiple louvres and weather-protection dog house protruding at the R/F. Fireman lifts and staircases are also provided at regular spacing to provide maintenance and emergency access and means of escape, which have protruding machine rooms at the R/F as well. These, along with the large number of protruding machine rooms for the vehicle lifts needed to operate the automatic parking system, create a highly complex and irregular roof layout which make it difficult to provide roof greening for the ICPs. Due to the complex and strict security concerns at the site, the majority of the at-grade area outside the building extent are reserved for the Integrated Checking Kiosk and

Mitigation Code	Mitigation Measures in the Approved EIA Report and EM&A Manual	Applicable/ Non- Applicable to ICPs	Justifications
Construction	n Phase		
Construction	II I Hase		Secondary Search Area to provide security checking and operations as required by the LEAs. Additionally, the existing verge area between Shun Hang Road and the internal service road will be reduced to 2.5m which will be too narrow for tree planting. Soft landscape similar to the existing turfing shall be provided along the roadside at this location. In addition, a "no-man zone" concept is adopted to operate the automated parking system in the two inbound carparks. The proposed car-parking facilities are at the Hong Kong Boundary Crossing area/ Closed Area and within the restricted zone, in which the
			facility owner or operator must ensure a proper facility security to prevent unauthorised access or activities. Automated Parking System (APS), where the vehicle storage is an unmanned zone (no-man zone) to avoid the possibility of breaching any current HK legislations, is adopted for accommodating the inbound vehicles in order to confine and control the access within the area. Adoption of APS minimizes access to the no-man zone (vehicle storage, which is 1/F and above) even due to necessary operation and maintenance. Thus, nonessential provisions should be refrained to avoid possible

Mitigation Code	Mitigation Measures in the Approved EIA Report and EM&A Manual	Applicable/ Non- Applicable to ICPs	Justifications
Construction	n Phase		
			disruption and/or intrusion to the no-man zone. Besides isolation between no-man zone (1/F and above) and
			man zone (1/F and above) and public area, Visitor Departure zone (M/F) and Arrival zone (G/F) of the proposed carparking facilities are required to be segregated in order to tally with the operation and security arrangement as Passenger Clearance Building (PCB). Demarcation among the Departure zone (M/F), Arrival zone (G/F), Closed Area and Restricted Area is not simply by sectional lines in stratum, but also along elevations. Thus, nonessential provisions and or connection between Departure zone (M/F) and Arrival zone (G/F) should be refrained similar to the isolation principle of no-man zone & public area arrangement. It is therefore considered not desirable to provide any greenery within the two inbound carparks to strike a balance between the operation and security needs. As a result, further landscape measures have been explored on the ground level area within the site boundary and illustrated in Figure 4.6 and Figure 6.1. An addition of
			about 600 m ² greenery areas have been proposed at the ground floor of Carpark B to maximise the greening opportunities.

Mitigation Code	Mitigation Measures in the Approved EIA Report and EM&A Manual	Applicable/ Non- Applicable to ICPs	Justifications							
Construction Phase										
G5	Vegetation reinstatement and upgrading to disturbed areas.	Applicable to the Project	For the disturbed vegetated areas on the development area of ICPs, they will be reinstated (as shown in Figure 4.5 and Figure 4.6) to their former state with planting up to the satisfaction of Airport Authority, the future maintenance agent of the reinstated areas.							
G6	Maximize new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed.	Applicable to the Project	Total 36 affected planted trees are proposed to be felled and compensated at the promenade on HKBCF. The proposed location for the compensatory trees is shown in Figure 2.2 .							
G7	Provide planting area around peripheral of and within HKBCF and HKLR for tree screening buffer effect.	Not applicable to the Project	No additional visual impacts will be generated by the Project (refer to Section 5 of this LVP).							
G8	Plant salt tolerant native tree and shrubs etc along the planter strip at affected seawall.		No reclamation works is proposed in the Project.							
G9	Reserve of loose natural granite rocks for re-use. Provide new coastline to adopt "natural-look" by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enhance "natural-look" of the new coastline (see Figure 14.4.2 for example).	Not applicable to the Project	No reclamation works is proposed in the Project.							

Mitigation Code	Mitigation Measures in the Approved EIA Report and EM&A Manual	Applicable/ Non- Applicable to ICPs	Justifications
Construction	n Phase		
V1	Minimize time for construction activities during construction period.	Applicable to the Project	The progress of construction works will be closely monitored to ensure that the time for construction activities is minimized during construction period.
V2	Provide screen hoarding at the portion of the project site / works areas / storage areas near VSRs who have close low-level views to the Project during HKLR & HKBCF construction.	Applicable to the Project	The screen hording will be constructed along the ICPs works area to minimise the visual impacts during construction.
Operational	Phase		
G10	Provide proper planting maintenance on the new planting areas to enhance the aesthetic degree.	Applicable to the Project	Planting maintenance such as watering, fertilizing, weeding, pruning and mowing etc. will begin immediately after planting. Table 5.5 and Table 5.6 show the planting maintenance principle and schedule in Section 5.3 of this LVP.
V3	Lighting design to minimize glare at night. Decorative road lighting to be considered during detailed design stage.	Applicable to the Project	Decorative road lighting has been considered during the detailed design stage. However, to minimize glare at night and avoid any unnecessary light spill to nearby VSRs (e.g. those on Airport Island and residents at Tung Chung and north Lantau), only minimum functional lighting will be provided for safety and all directional lighting will be facing towards, instead of away from, the HKBCF.

5.2 Re-assessment of Residual Impacts

- 5.2.1.1 In the approved EIA Report of HZMB HKBCF (Register No. AEIAR-145/2009), the potential landscape and visual impact on HKBCF was assessed and mitigation measures were proposed to mitigate the potential impacts to acceptable level. Also, as stipulated in Condition 2.4 of the FEP for the Project (EP No. FEP-02/353/2019/K), this LVP has prepared with implementation details of landscape and visual mitigation measures.
- 5.2.1.2 Total 36 nos. of affected planted trees are proposed to be felled and compensated at the southern portion on HKBCF, the 115 affected planned trees will be proposed to the new locations. The maintenance responsibilities for landscape works will be taken up by AAHK (Permit Holder of EP No. FEP-02/353/2009/K). The details of compensatory proposal have incorporated in **Section 2** of this LVP. Besides, it is anticipated that the Project will not generate any additional visual impacts to the relevant VSRs (refer to the photomontage drawings from **Figures 5.2** to **Figure 5.15**).
- 5.2.1.3 Given the above, the potential landscape and visual impact on HKBCF due to implementation of the Project will be mitigated to acceptable level and will not have unacceptable impact on the landscape and visual mitigation measures implemented by HKBCF.
- 5.2.1.4 In conclusion, the proposed development of the Project do not affect the effectiveness of the landscape and visual mitigation measures as listed in the approved LVP Report of the HZMB HKBCF (Agreement No. CE 13/2010 (CE)). The residual impact will remain acceptable with mitigation measures in this LVP.

5.3 Maintenance and Management

- 5.3.1.1 As specified in Section 14.2.10 of the EM&A Manual, "The planting works shall be monitored during the first 10 years of the operation phase of the Project".
- 5.3.1.2 The Environmental Teams will be responsible for the landscape and visual monitoring works as listed in the monitoring programme in Table 14.1 of the EM&A Manual during construction and the establishment period. The landscape and visual monitoring works shall make reference to this LVP once this LVP is endorsed by PlanD/ EPD. For reporting and submission on landscape and visual monitoring, for both construction and the establishment periods, the ET will submit the report to the IEC.
- 5.3.1.3 After the establishment period, the monitoring of long-term management of planting works in the remaining 9 years of the operational stages of the Project will be taken up by a maintenance agency (engaged by management agency) annually.
- 5.3.1.4 The schedule of management and maintenance responsibilities for landscape works is shown in **Table 5.2** to identify the long-term management and maintenance responsibilities after the establishment period. Such arrangement has been included in the overall Management and Maintenance Schedule for the Project, which has been agreed by AAHK.

Table 5.2 Landscape Works Schedule of Management and Maintenance Responsibilities

Item	Detailed Description	Management Agency	Maintenance Agency		
Hard L	andscape				
1	Paving works	AAHK	AAHK		
2	At-grade planters	AAHK	AAHK		
Soft La	ndscape				
1	At-grade planting works (trees,	AAHK	AAHK		
	shrubs, groundcovers and turf)				
2	At-grade irrigation system	AAHK	AAHK		

5.3.1.5 Typical operations and scheduling are illustrated in **Table 5.3** to **Table 5.6**.

Table 5.3 Hard Landscape Maintenance Principles

Irrigation	
Operation:	Oversee system and adjust timers as required
Adjust:	Adjust valve water flow rates in field twice a year March and October
Repair:	Repair and replace fittings and pipework as required
Lighting	
Repair:	Fittings as required
Replace:	Replace bulbs as required
Hard Paving	
Repair:	Check and maintain all paving and repair as required
Clear:	Remove debris from drains twice a year and routinely check
	monthly and after storms

 Table 5.4
 Hard Landscape Maintenance Schedule

Month

	1	2	3	4	5	6	7	8	9	10	11	12
Irrigation												
Operation	*	*	*	*	*	*	*	*	*	*	*	*
Adjust valves			*							*		
Repair	*	*	*	*	*	*	*	*	*	*	*	*
Lighting												
Repair	*	*	*	*	*	*	*	*	*	*	*	*
Replace	*	*	*	*	*	*	*	*	*	*	*	*
Hard Paving	<u> </u>											
Repair	*	*	*	*	*	*	*	*	*	*	*	*
Clear	*	*	*	*	*	*	*	*	*	*	*	*

Table 5.5 Soft Landscape Maintenance Principles

Planting	
Watering:	Watering to all plants to ensure satisfactory growth and
	health (manual and automatic irrigation)
Fertilizing:	Twice yearly November and March with emphasis on March
	application
Fungicide /	Spray as necessary or 3 times a year with approved non-toxic
Insecticide:	pesticides
Weeding:	Use selective herbicide to reduce maintenance costs as required
Securing:	Adjust tree stakes, guys and ties as required for safety and avoid
	chaffing of bark

Planting	
Repairing:	After exceptional weather conditions replace dead plants,
	repair damaged plants, bed in all plants that have blown over,
	firm up all other plants and immediately thereafter, remove
	dead plants and plant debris from the site
Litter Removal:	Remove all litter and debris
Pruning Shrubs /	Prune Shrubs and ground covers twice a year in March and
GCs:	November in accordance with HKIA APSL (Revision 6.0:
	August 2021) or the latest revision of HKIA APSL for
	respective zones (i.e. Zone 1 or Zone 2)
Pruning Trees:	Prune trees/limb overhanging branches in accordance with
	HKIA APSL (Revision 6.0: August 2021) or the latest revision
	of HKIA APSL for Zone 2 , monthly and
	as required for safety to minimize usage by birds
Mowing:	Mow grass twice a year in March and October in accordance with HKIA APSL
	(Revision 6.0: August 2021) or the latest revision of HKIA
	APSL for respective zones (i.e. Zone 1 or Zone 2)
Tree Risk	Undertake Tree Risk Assessment in accordance with
Assessment:	the latest edition of Guidelines for Tree Risk
	Assessment and Management Arrangement
	promulgated by Greening, Landscape and Tree
	Management Section of
	Development Bureau

 Table 5.6
 Soft Landscape Maintenance Schedule

Month

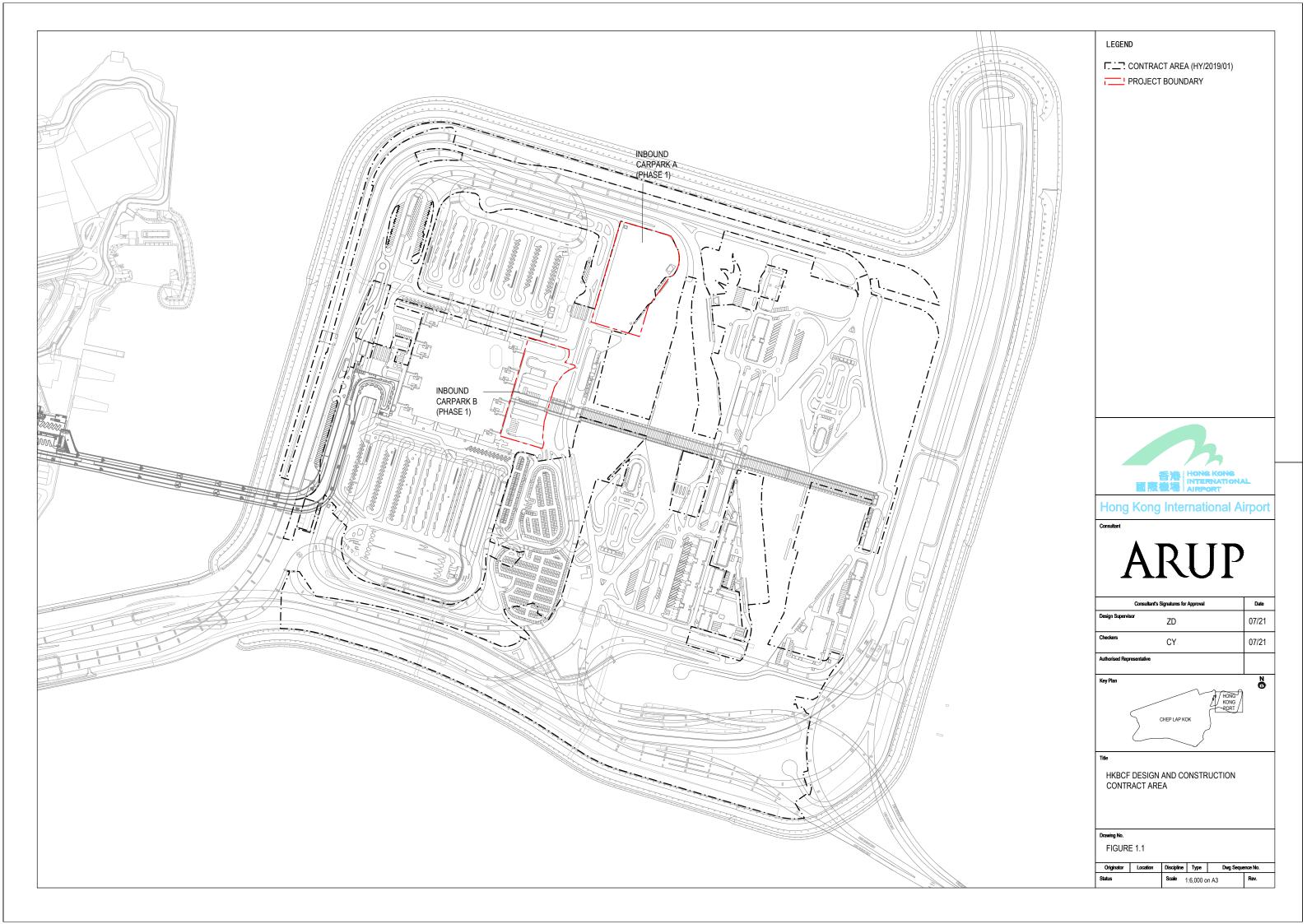
	1	2	3	4	5	6	7	8	9	10	11	12
Watering *	•	•	•	•	•	•	•	•	•	•	•	•
Fertilizing			•								•	
Fungicide / Insecticide			•						•			•
Weeding		•	•	•	•	•	•	•		•		•
Securing			•						•			
Repairing							As uired					
Litter Removal	•	•	•	•	•	•	•	•	•	•	•	•
Pruning Shrubs / GCs			•								•	
Pruning Trees	•	•	•	•	•	•	•	•	•	•	•	•
Mowing												
Tree Risk Assessment			•									

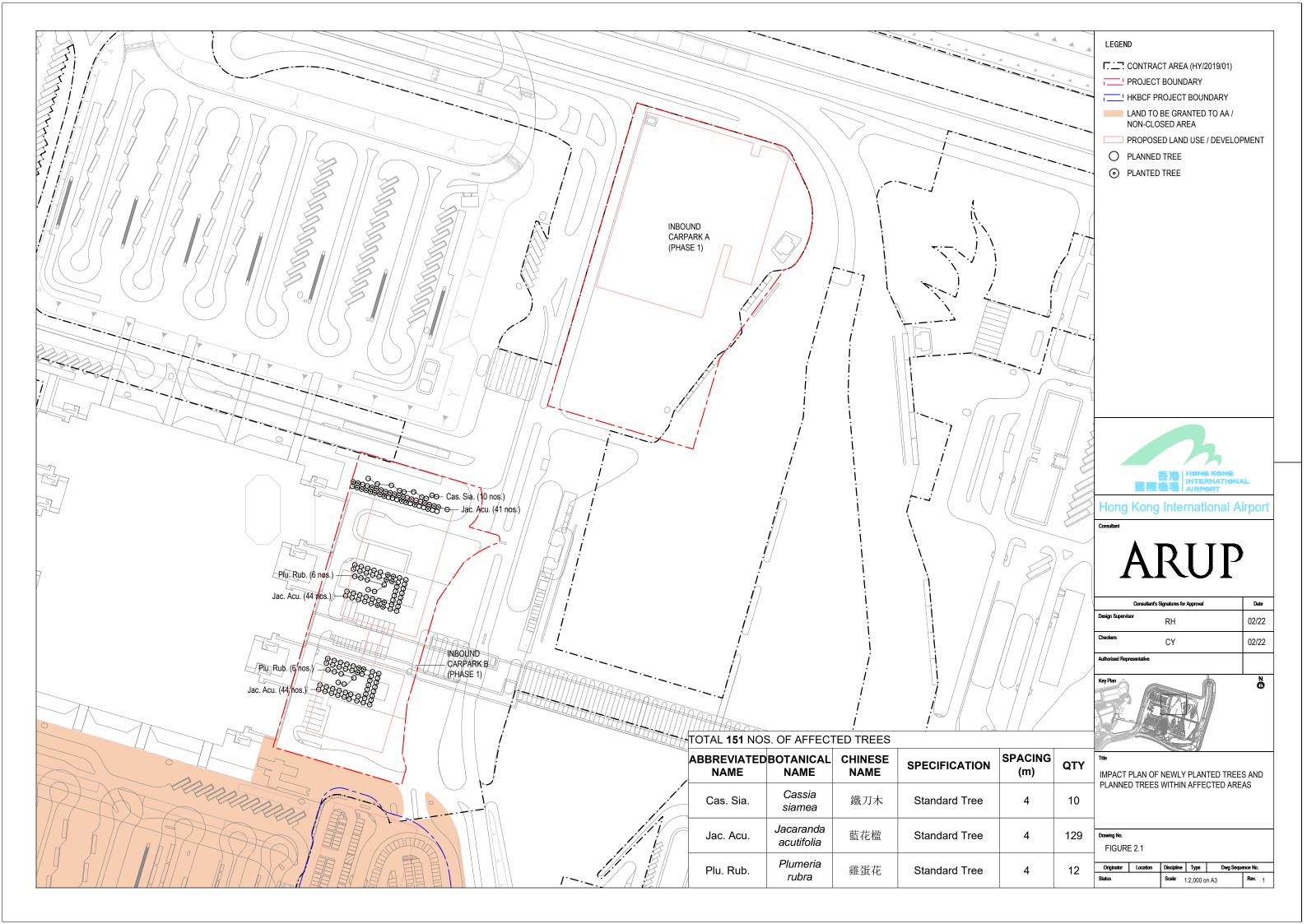
^{*} Dot size denotes watering frequency, which will be higher in dry season and lower in wet season in general. Exact frequency of watering shall be adjusted from time to time as required to suit the site condition.

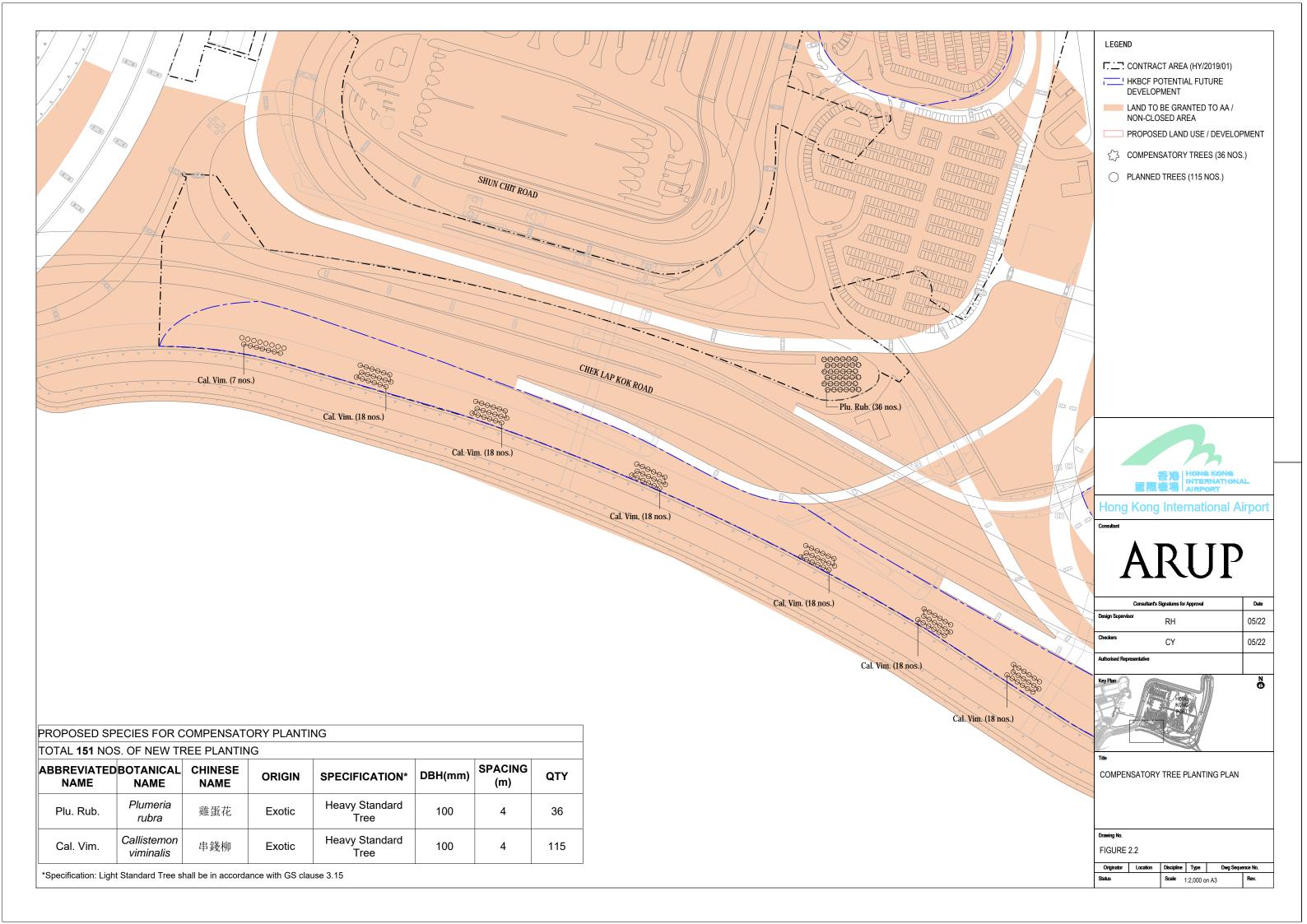
6 Summary

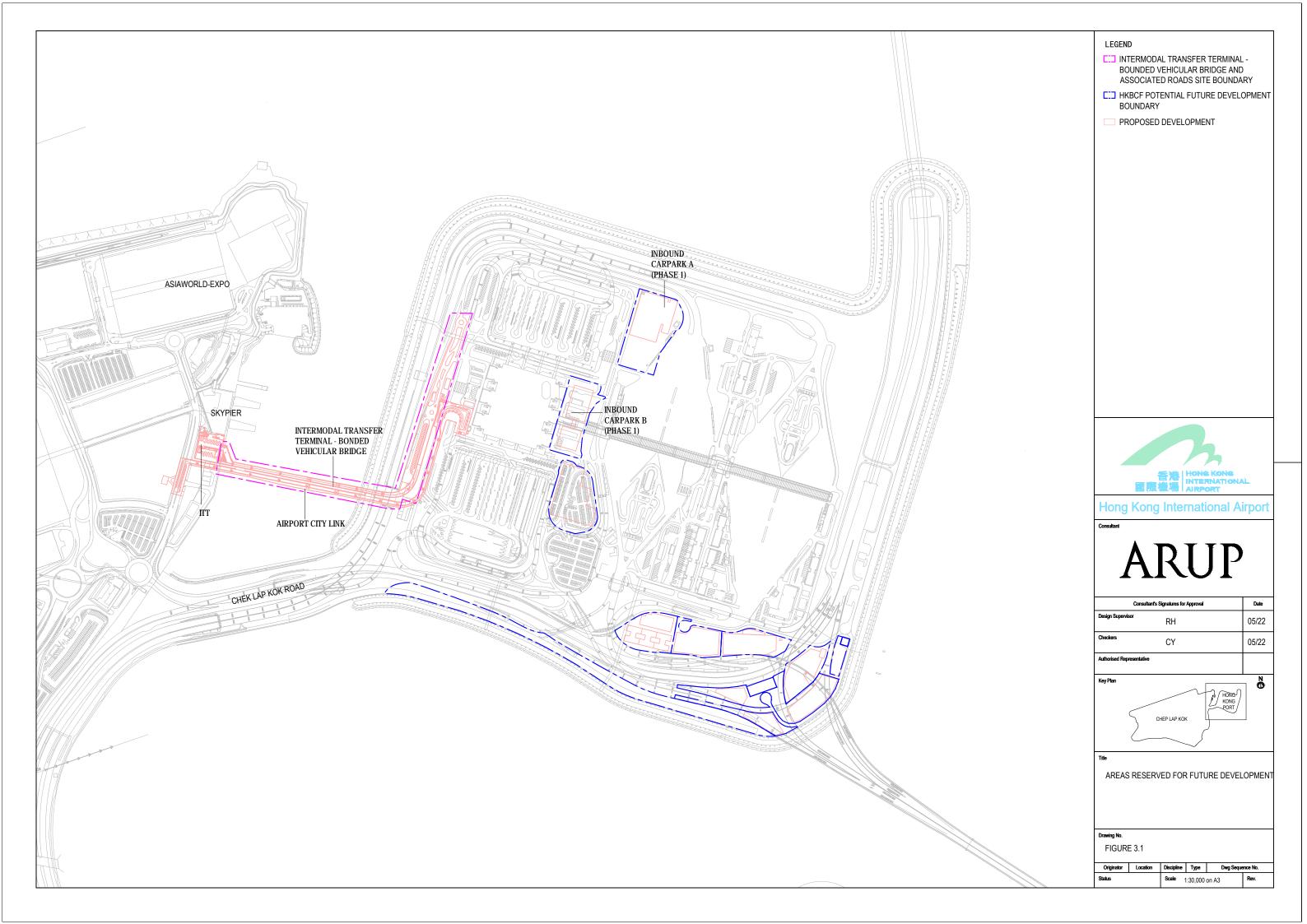
- 6.1.1.1 Subsequent to the approval of the LVP of the HZMB HKBCF (Agreement No. CE 13/2010 (CE)) in April 2021, this LVP is required due to the Project initiated by AAHK on HKBCF island. This LVP submission is prepared in fulfilment of Condition 2.4 of the further EP (EP No. FEP-02/353/2009/K). This LVP submission covers the Project site to demonstrate the detail design approach for the Project.
- 6.1.1.2 The Project mainly involves the construction of ICPs buildings and the road infrastructure on the newly reclaimed HKBCF Island. Landscape hardworks include pedestrian paving and landscape softworks include shrub and groundcover planting and turfing.
- 6.1.1.3 The tree planting works implemented under the HKBCF contract (Contract No. HY/2019/01) are in direct conflict with the Project, including 36 trees already planted and 115 trees to be planted. Total 36 affected planted trees are proposed to be felled and compensated and 115 affected planned trees are proposed to plant at the new locations. The compensatory proposal has incorporated in Section 2 of this LVP submission.
- 6.1.1.4 All relevant design and mitigation measures listed in Section 14.3.3.2 of the approved EIA Report (Register No.: AEIAR-145/2009) and Section 14.2.4 of the EM&A Manual have been considered in the detailed design stage. These measures have been incorporated into the landscape design as far as practicable.
- 6.1.1.5 Since HKBCF is located underneath the air-flight route, the planting design also complies with the planting restrictions in respective Zones of HKIA as stipulated in HKIA APSL (Revision 6.0: August 2021). For the works contract(s) of HKBCF awarded in 2021, all planting proposed follows the latest HKIA APSL (Revision 6.0: August 2021).
- 6.1.1.6 To minimize potential landscape and visual impact, other than maximizing greening opportunities, aesthetic architectural design on all above-ground structures to provide a harmonized effect on HKBCF and the adjacent Airport Island is a key design consideration.
- 6.1.1.7 Landscape and visual mitigation measures for construction and operation phases as recommended in Section 14.3.3.3 of the approved EIA Report and Section 14.2.5 of the EM&A Manual will also be adopted as far as practicable. Implementation details of mitigation measures relevant to the Project are described in this LVP submission.
- 6.1.1.8 Detailed arrangement on maintenance and management of landscape works is also presented in this LVP submission to identify the management authorities and maintenance parties and summarize the basic principles for maintenance of landscape works, the details of which will be developed in the O&M Manual.

Figures















Existing PCB canopy

ICPs facade design concept



- Adopted a sinuous and organic form
- Echoes the repeating wave elements in the vicinity including the open sea, mountain, Airport Building and the PCB canopy





Consi	Date	
Design Supervisor	RH	06/21
Checkers	CY	06/21
Authorised Representati	ive	

Key Plan

Title

AESTHETIC ARCHITECTURAL DESIGN ON THE ICPS (INBOUND CARPARK A (PHASE 1))

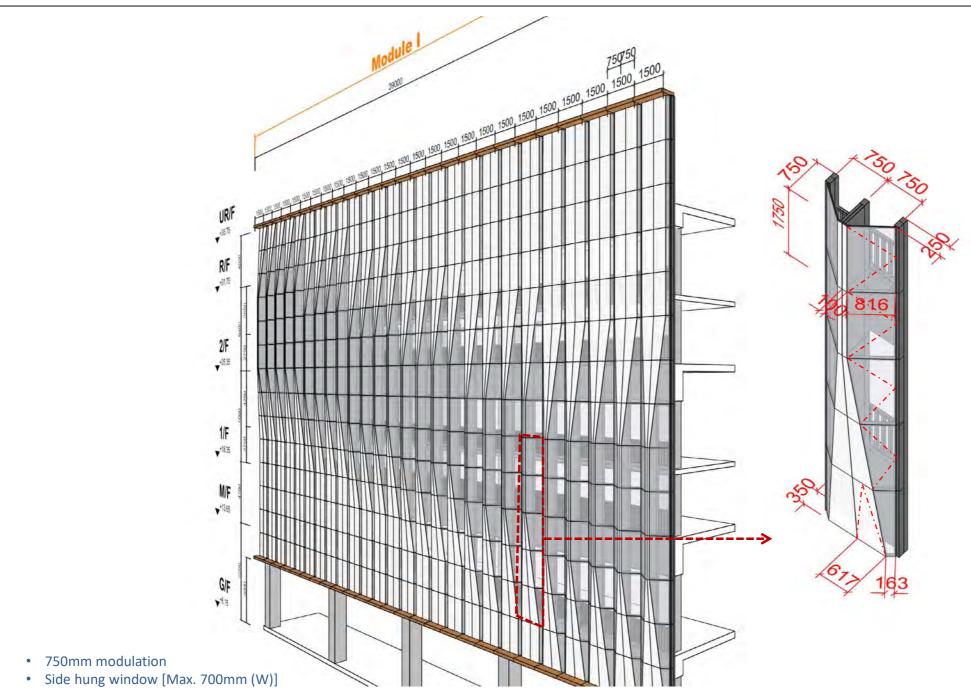
Drawing No.

FIGURE 4.1

Originator Location Discipline Type Dwg Sequence No.

Status Scale _ Rev.

Plot Date: 3/19/2021 4:50:30 PM



Inbound Carpark A (Phase 1) curtain wall system



LEGEND



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Design Supervisor	RH	06/21
Checkers	CY	06/21
Authorised Representativ	ve	

Key Plan

Title

USE OF GLASS FOR FACADE AND BALUSTRADE SIMILAR TO AIRPORT BUILDINGS (INBOUND CARPARK A (PHASE 1))

Drawing No.

FIGURE 4.2

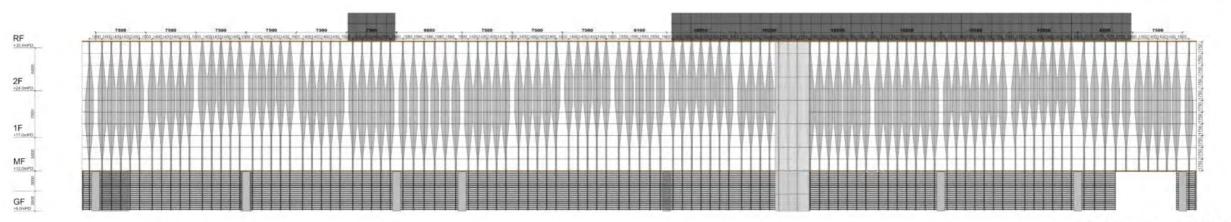
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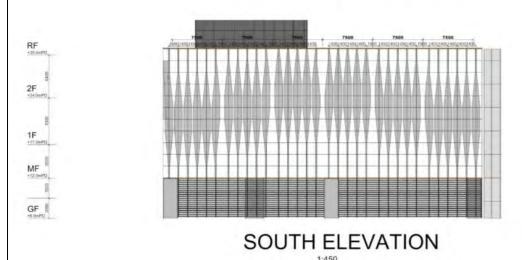
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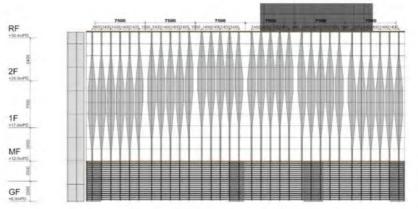
Inbound Carpark B (Phase 1) facade design



EAST ELEVATION
1:450



Inbound Carpark B (Phase 1) facade design



NORTH ELEVATION



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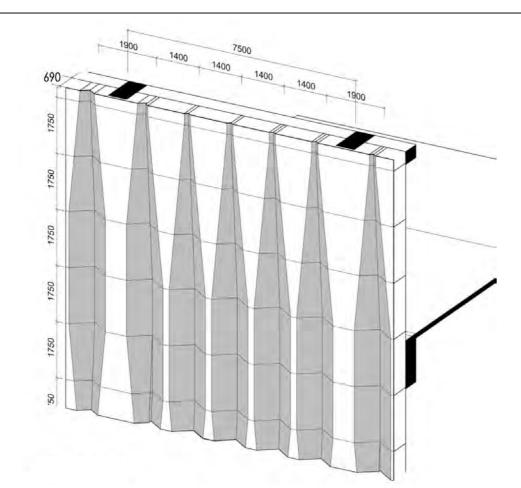
ant's Signatures for Approval	Date
RH	06/2
CY	06/21
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	CY

AESTHETIC ARCHITECTURAL DESIGN ON THE ICPS (INBOUND CARPARK B (PHASE 1))

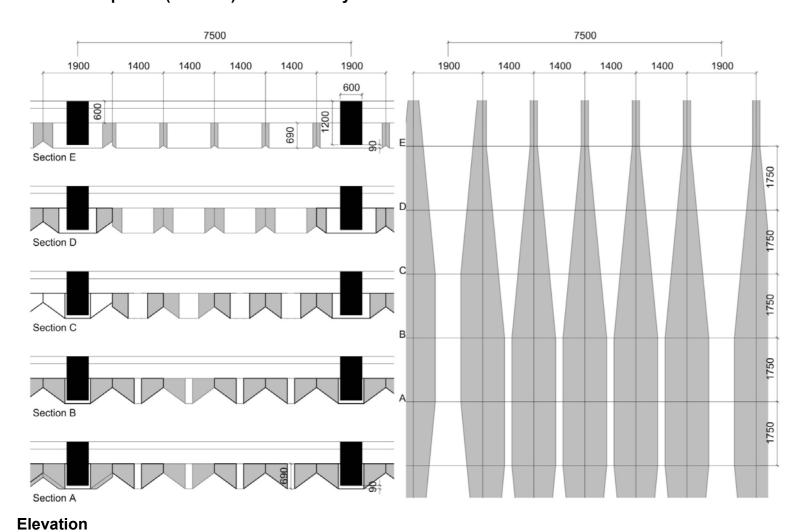
FIGURE 4.3

Originator Location Discipline Type Dwg Sequence No.

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Inbound Carpark B (Phase 1) curtain wall system



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Checkers	CY	06/21
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Key Plan

Title

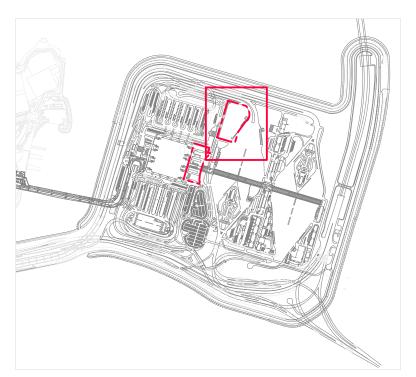
USE OF GLASS FOR FACADE AND BALUSTRADE SIMILAR TO AIRPORT BUILDINGS (INBOUND CARPARK B (PHASE 1))

FIGURE 4.4

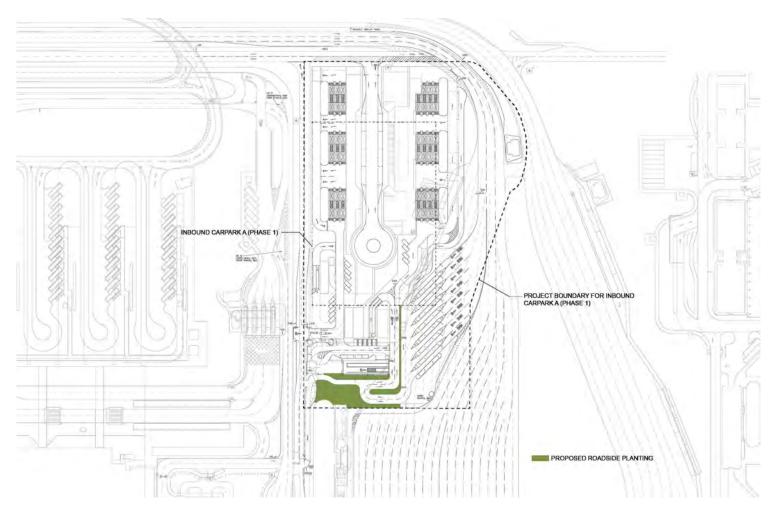
Originator Location Discipline Type

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 Type
 Dwg Sequence No.

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 Rev.



KEY PLAN WITH PROPOSED ROADSIDE GREENERY LOCATION



PROPOSED ROADSIDE GREENERY LOCATION AT INBOUND CARPARK A (PHASE 1)



ROADSIDE PLANTING AROUND INBOUND CARPARK A (PHASE 1)

LEGEND



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Checkers	CY	07/21
Authorised Representative		

Key Plan

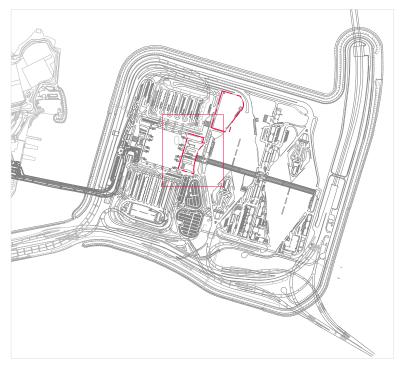
Title

ROADSIDE PLANTING REFERENCE OF INBOUND CARPARK A (PHASE 1)

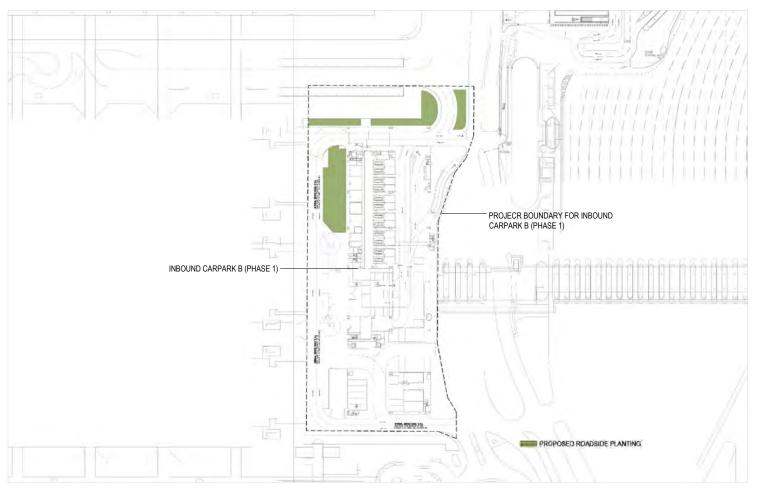
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FIGURE 4.5

Originator	Location	Discipline	Туре	Dwg Seque	ence No.
Status		Scale	NTS		Rev.



KEY PLAN WITH PROPOSED ROADSIDE GREENERY LOCATION



PROPOSED ROADSIDE GREENERY LOCATION AT INBOUND CARPARK B (PHASE 1)



ROADSIDE PLANTING AROUND INBOUND CARPARK B (PHASE 1)

LEGEND

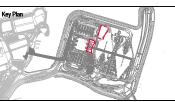


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Design Supervisor	ZD	05/22
Checkers	CY	05/22
Authorised Representati		- 00



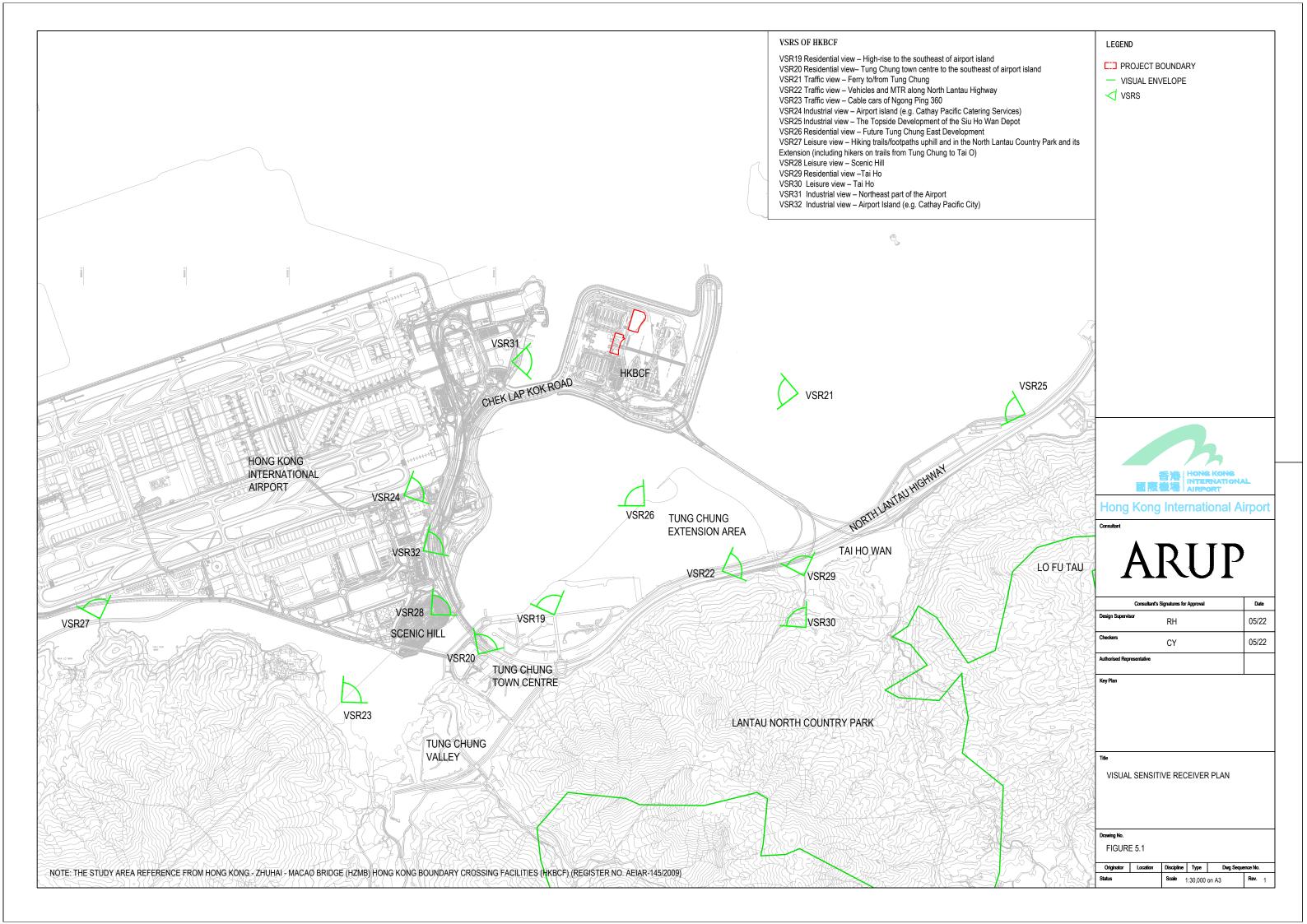
Title

ROADSIDE PLANTING REFERENCE OF INBOUND CARPARK B (PHASE 1)

Drawing No.

FIGURE 4.6

Originator	Location	Discipline	Туре	Dwg Seque	ence No.
Status		Scale	NTS		Rev.





Existing Baseline Condition



Proposed Development with Mitigation Measures (Day 1 of Operational Stage)

*Descriptions: The propsoed development is fully screened by the Tung Chung Area 54 developments.



Proposed Development without Mitigation Measures



Proposed Development with Mitigation Measures (Year 10 of Operational Stage)



LANTAU NORTH COUNTRY PARK

SAN TAU



Hong Kong International Airport

Consultant



Consultant's Signatures for Approval		Date
Design Supervisor	RH	06/21
Checkers	CY	06/21
Authorised Representativ	re	

Key Plan

Title

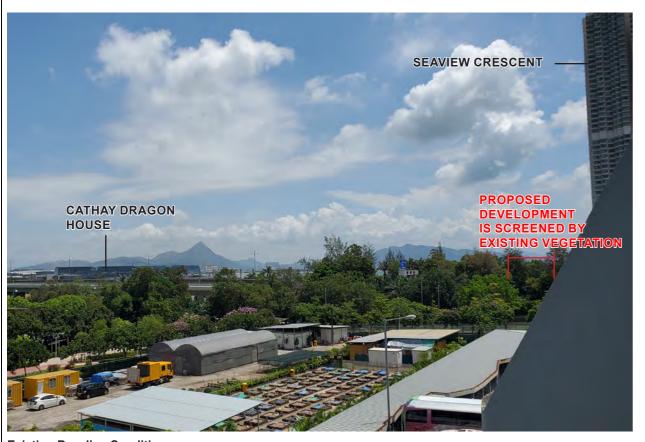
RECOMMENDED LANDSCAPE AND VISUAL MITIGATION MEASURES FOR VSR19

Drawing No.

FIGURE 5.2

Originator Location Discipline Type Dwg Sequence No.

Status Scale Rev.



Existing Baseline Condition



Proposed Development with Mitigation Measures (Day 1 of Operational Stage)

*Descriptions: The propsoed development is fully screened by the existing vegetation.



Proposed Development without Mitigation Measures



Proposed Development with Mitigation Measures (Year 10 of Operational Stage)





Hong Kong International Airport

Consultant



Consultant's Signatures for Approval		Date
Design Supervisor	RH	06/21
Checkers	CY	06/21
Authorised Representa	tive	

Tal.

RECOMMENDED LANDSCAPE AND VISUAL MITIGATION MEASURES FOR VSR20

Drawing No.
FIGURE 5.3

Originator Location Discipline Type Dwg Sequence No.
Status Scale Rev.



HKBCF PASSENGER
CLEARANCE BUILDING (PCB)

PROPOSED
DEVELOPMENT
IS SCREENED BY
EXISTING FLYOVER

Proposed Development without Mitigation Measures

CHEK LAP KOK

HKBCF

FUNG
CHUNG
TOWN

LANTAU NORTH
COUNTRY PARK

Existing Baseline Condition



Proposed Development with Mitigation Measures (Day 1 of Operational Stage)



Proposed Development with Mitigation Measures (Year 10 of Operational Stage)



Hong Kong International Airport

Consultant



tant's Signatures for Approval	Date
RH	06/2
CY	06/2
В	
	RH CY

Key Plan

Title

RECOMMENDED LANDSCAPE AND VISUAL MITIGATION MEASURES FOR VSR21

Drawing No.

FIGURE 5.4

Originator Location Discipline Type Dwg Sequence No.

Status Scale Rev.



Existing Baseline Condition



Proposed Development with Mitigation Measures (Day 1 of Operational Stage)

*Descriptions: The propsoed development is fully screened by the existing vegeation.



Proposed Development without Mitigation Measures



Proposed Development with Mitigation Measures (Year 10 of Operational Stage)



LANTAU NORTH COUNTRY PARK

SAN TAU



Hong Kong International Airport

Consultant



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CY	06/21
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Key Plan

Title

RECOMMENDED LANDSCAPE AND VISUAL MITIGATION MEASURES FOR VSR22

Drawing No.

FIGURE 5.5

Originator Location Discipline Type Dwg Sequence No.

Status Scale _ Rev.



Existing Baseline Condition



Proposed Development with Mitigation Measures (Day 1 of Operational Stage)



Proposed Development without Mitigation Measures



Proposed Development with Mitigation Measures (Year 10 of Operational Stage)

*Descriptions: Given the limited visibility and long viewing distance, it is anticipated that the Project will not generate any additional visual impacts.





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Consultant



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RECOMMENDED LANDSCAPE AND VISUAL MITIGATION MEASURES FOR VSR23

Drawing No.					
FIGUR	E 5.6				
Originator	Location	Discipline	Туре	Dwg Seque	ence No.
Status		Scale _			Rev.



Existing Baseline Condition



Proposed Development with Mitigation Measures (Day 1 of Operational Stage)



Proposed Development without Mitigation Measures



Proposed Development with Mitigation Measures (Year 10 of Operational Stage)



LANTAU NORTH COUNTRY PARK



Hong Kong International Airport

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Title

RECOMMENDED LANDSCAPE AND VISUAL MITIGATION MEASURES FOR VSR24

Drawing No.
FIGURE 5.7

Originator Location Discipline Type Dwg Sequence No.
Status Scale - Rev.



Existing Baseline Condition



Proposed Development with Mitigation Measures (Day 1 of Operational Stage)



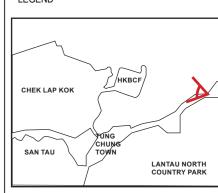
Proposed Development without Mitigation Measures



Proposed Development with Mitigation Measures (Year 10 of Operational Stage)

*Descriptions: Given the limited visibility and long viewing distance, it is anticipated that the Project will not generate any additional visual impacts.







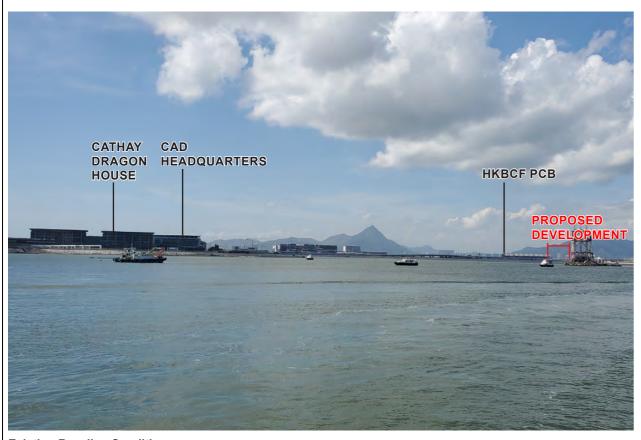
Hong Kong International Airport



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RECOMMENDED LANDSCAPE AND VISUAL MITIGATION MEASURES FOR VSR25

FIGURE 5.8 Originator Location Discipline Type Dwg Sequence No.



Existing Baseline Condition



Proposed Development with Mitigation Measures (Day 1 of Operational Stage)



Proposed Development without Mitigation Measures



Proposed Development with Mitigation Measures (Year 10 of Operational Stage)

*Descriptions: Given the limited visibility and long viewing distance, it is anticipated that the Project will not generate any additional visual impacts.



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Key Plan

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RECOMMENDED LANDSCAPE AND VISUAL MITIGATION MEASURES FOR VSR26

Drawing No.

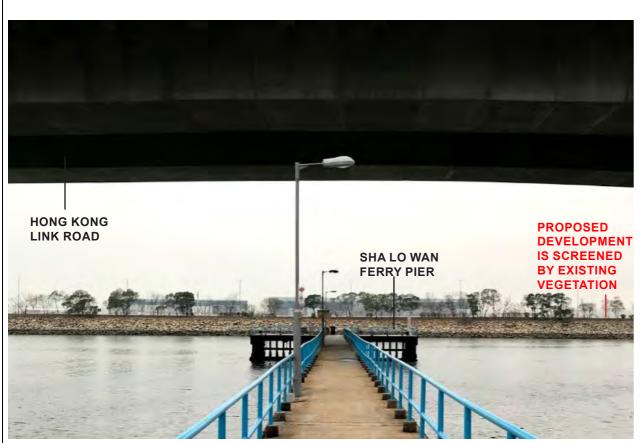
FIGURE 5.9

Originator Location Discipline Type Dwg Sequence No.

Status Scale Rev.

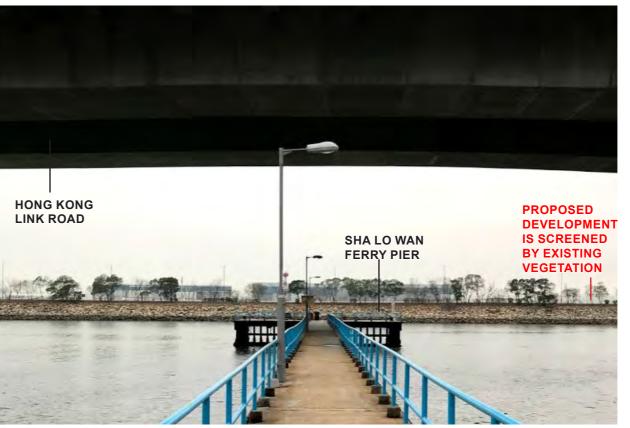


Existing Baseline Condition



Proposed Development with Mitigation Measures (Day 1 of Operational Stage)

*Descriptions: The propsoed development is fully screened by the existing vegetation.



Proposed Development without Mitigation Measures



Proposed Development with Mitigation Measures (Year 10 of Operational Stage)



LANTAU NORTH COUNTRY PARK

SAN TAU



Hong Kong International Airport

Consultant



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Authorised Representative			_	
Checkers	CY			

RECOMMENDED LANDSCAPE AND VISUAL MITIGATION MEASURES FOR VSR27

Drawing No.

FIGURE 5.10

Originator Location Discipline Type Dwg Sequence No.

Status Scale Rev.





Proposed Development with Mitigation Measures (Day 1 of Operational Stage)

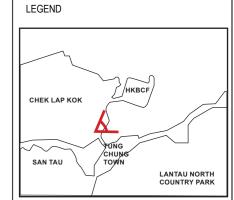


Proposed Development without Mitigation Measures



Proposed Development with Mitigation Measures (Year 10 of Operational Stage)

*Descriptions: Given the limited visibility and long viewing distance, it is anticipated that the Project will not generate any additional visual impacts.





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Authorised Representative				
	RH CY			

RECOMMENDED LANDSCAPE AND VISUAL MITIGATION MEASURES FOR VSR28

FIGURE 5.11 Originator Location Discipline Type Dwg Sequence No.



LEGEND



Existing Baseline Condition



Proposed Development without Mitigation Measures

*Descriptions: The propsoed development is fully screened by the existing NLH highway.



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Key Plan

Title

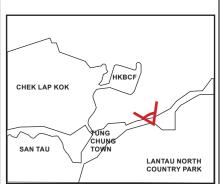
RECOMMENDED LANDSCAPE AND VISUAL MITIGATION MEASURES FOR VSR29

Drawing No.
FIGURE 5.12a

Originator Location Discipline Type Dwg Sequence No.
Status Scale Rev.



LEGEND



Proposed Development with Mitigation Measures (Day 1 of Operational Stage)



Proposed Development with Mitigation Measures (Year 10 of Operational Stage)

*Descriptions: The propsoed development is fully screened by the existing NLH highway.



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Checkers	CY	06/21	
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Key Plan

Title

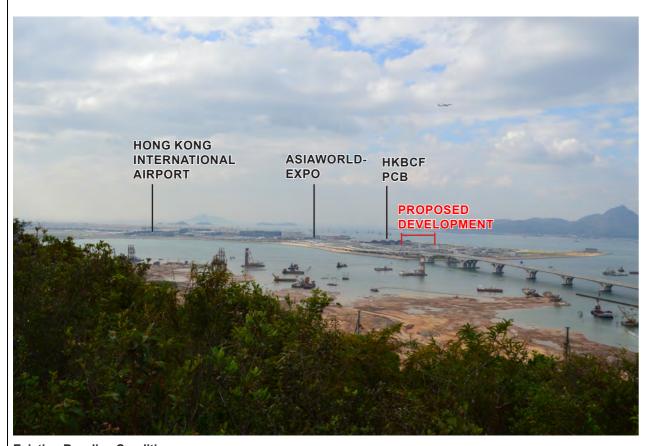
RECOMMENDED LANDSCAPE AND VISUAL MITIGATION MEASURES FOR VSR29

Drawing No.

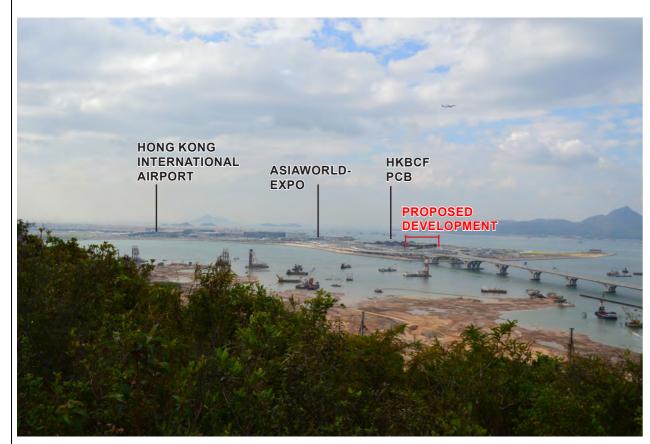
FIGURE 5.12b

Originator Location Discipline Type Dwg Sequence No.

Status Scale - Rev.



Existing Baseline Condition



Proposed Development with Mitigation Measures (Day 1 of Operational Stage)



Proposed Development without Mitigation Measures



Proposed Development with Mitigation Measures (Year 10 of Operational Stage)

*Descriptions: Given the limited visibility and long viewing distance, it is anticipated that the Project will not generate any additional visual impacts.





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Title

RECOMMENDED LANDSCAPE AND VISUAL MITIGATION MEASURES FOR VSR30

Drawing No.

FIGURE 5.13

Originator Location Discipline Type Dwg Sequence No.

Status Scale . Rev.



Existing Baseline Condition



Proposed Development with Mitigation Measures (Day 1 of Operational Stage)

*Descriptions: The propsoed development is screened by HKBCF PCB.

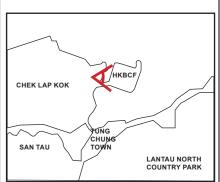


Proposed Development without Mitigation Measures



Proposed Development with Mitigation Measures (Year 10 of Operational Stage)







Hong Kong International Airport



Consultant's Signatures for Approval				
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Authorised Representative				

RECOMMENDED LANDSCAPE AND VISUAL MITIGATION MEASURES FOR VSR31

FIGURE 5.14 Originator Location Discipline Type Dwg Sequence No.



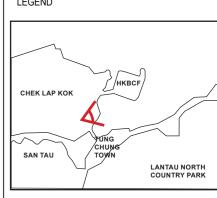
Existing Baseline Condition



Proposed Development without Mitigation Measures

*Descriptions: The propsoed development is screened by CAD HEADQUARTERS.







Hong Kong International Airport



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Checkers	CY	06/21
Authorised Representa		

RECOMMENDED LANDSCAPE AND VISUAL MITIGATION MEASURES FOR VSR32

FIGURE 5.15a

Originator Location Discipline Type Dwg Sequence No.



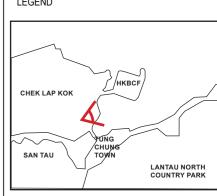
Proposed Development with Mitigation Measures (Day 1 of Operational Stage)



Proposed Development with Mitigation Measures (Year 10 of Operational Stage)

*Descriptions: The propsoed development is screened by CAD HEADQUARTERS.







Hong Kong International Airport



Cons	ultant's Signatures for Approval		Date	
Design Supervisor	RH		06/21	
Checkers	CY		06/21	
Authorised Representat	ive			

RECOMMENDED LANDSCAPE AND VISUAL MITIGATION MEASURES FOR VSR32

FIGURE 5.15b Originator Location Discipline Type Dwg Sequence No.



Appendix A1

Certification Letter from the Environmental Team Leader (ETL)



By Hand

Airport Authority Hong Kong HKIA Tower, 1 Sky Plaza Road, Hong Kong International Airport, Lantau, Hong Kong Level 5, Festival Walk 80 Tat Chee Avenue Kowloon Tong, Kowloon Hong Kong

> t +852 2528 3031 d +852 2268 3437 f +852 2260 3380

ricky-kh.chui@arup.com www.arup.com

Attention: Ms. Becky YAN

30 June 2022

Dear Becky,

Hong Kong – Zhuhai – Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) – Inbound Carpark A (Phase 1) and Inbound Carpark B (Phase 1) Environmental Permit No.: FEP-02/353/2009/K Landscape and Visual Plan (LVP)

This LVP has been reviewed and certified by the Environmental Team Leader (ETL) in accordance with Condition 1.9 of Environmental Permit No. FEP-02/353/2009/K.

If you require any further information, please do not hesitate to contact the undersigned at 2268 3437.

Yours faithfully,

Ricky Chui

Environmental Team Leader

Appendix A2

Verification Letter from the Independent Environmental Checker (IEC)



AECOM

+852 3922 9000 tel +852 3922 9797 fax

12/F, Grand Central Plaza, Tower 2, 138 Shatin Rural Committee Road, Shatin, Hong Kong 香港新界沙田鄉事會路 138 號新城 市中央廣場第 2 座 8 樓 www.aecom.com

Your Ref:

Our Ref: 60651125/C/FYW2206221

By Email

Airport Authority Hong Kong HKIA Tower, 1 Sky Plaza Road, Hong Kong International Airport, Lantau, Hong Kong

Attn: Ms. Becky YAN

22 June 2022

Dear Becky,

Hong Kong – Zhuhai – Macau Bridge Hong Kong Boundary Crossing Facilities (HKBCF) – Inbound Carpark A (Phase 1) and Inbound Carpark B (Phase 1) Environmental Permit No.: FEP-02/353/2009/K Landscape and Visual Plan (LVP)

We would like to inform you that we have no adverse comment on Environmental Team's submission of Landscape and Visual Plan. Therefore we write to verify the captioned submission in accordance with the requirement stipulated in Condition 1.9 of FEP-02/353/2009/K.

Should you have any queries, please feel free to contact the undersigned at 3922 9366.

Yours faithfully, AECOM Asia Co. Ltd.

Y W Fung

Independent Environmental Checker

Appendix B

HKIA Approved Plant Species List (APSL) (Revision 6.0 August 2021)

Hong Kong International Airport Approved Plant Species List (Revision 6.0: August 2021)

1 Background

In accordance with the ICAO Airport Services Manual Part 3 (5th edition – 2020), Wildlife Hazard Management, Chapter 4, Para 4.4.2, a bird/wildlife management plan should be developed for the area, typically a 13 km (or 7NM) circle of the airport aerodrome reference point. In addition, in accordance with ICAO Annex 14, Volume I (8th edition – July 2018), Chapter 9, Para 9.4.5, States should give due consideration to aviation safety concerns related to land developments in the vicinity of the aerodrome that may attract wildlife.

Environmental management is integral to wildlife control, especially to reduce bird hazard, at the Hong Kong International Airport ("HKIA"). Given that the species planted for landscaping are directly correlated to the species and numbers of birds attracted, the Airfield Department of the Airport Authority Hong Kong ("AAHK") in February 2000 engaged a consultant to issue and maintain an Approved Plant Species List ("APSL") to reduce and limit the attractiveness of HKIA to birds.

In view of continuing large-scale developments and updated design proposals for future airside areas (i.e. The Third Runway Development), landside areas of the HKIA and in the vicinity of the airport island (e.g. The Hong Kong-Zhuhai-Macao Bridge Hong Kong Port (HKP)), the Airport Authority has issued this Revision 6.0 to guide project proponents in considering future planting proposals in all areas on the airport island and its vicinity.

The APSL aims to strike a balance between aviation safety and landscape attractiveness. The bird control service consultant engaged by AAHK reviews, as necessary, the suitability of any new plant species proposed, as well as the planting and vegetation management guidelines in HKIA.

2 General Principles

The aim of the airport bird strike reduction strategy at HKIA is to minimise the presence of bird species that may provide a significant hazard to aircraft or airport operations. Hazardous species are those that are more likely to cause damage to an aircraft; these are defined as species that are large, flocking or large and flocking. The planting prescriptions for all zones have been devised so that numbers of these hazardous species attracted to the airfield for foraging or resting are minimised.

In addition, all species listed in this APSL should be managed in accordance with the same principle of reducing attraction to birds via selective pruning and removal of fleshy fruits, and this principle must be observed in all landscape planning. Large-scale planting of any plant

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species in Zones 1, 2 and 2a, even of approved species in the APSL, should be avoided to further minimise the potential attractiveness of extensive plant groups to birds. Plants that produce fleshy fruits should be avoided in future planting in Zone 1, 2, 2a and areas in Zone 3 close to the runway and the airfield. Should new fleshy fruit-bearing plant individuals be proposed and/or planted in these zones, strong justification for such proposal should be provided. In addition, all proposals for new landscape planting or new tree group transplanting should be submitted to the Airfield Department for review and approval on a case-by-case basis.

Considering that the plant community changes over time, planting criteria and management practice for existing plant species, which specify the plants exist in respective zones when APSL is effective already, and future planting and/or transplantation could be different so as to control the plant group size in the airport. Proposals for species not in this APSL or for planting of species that are not in the appropriate zones are subject to review and approval on a case-by-case basis, and they must be justified with due reference to bird strike issues and vegetation characteristics.

3 Third Runway development

The construction of a third runway (3RS) will create new airport areas that require to be placed in appropriate vegetation zones.

In addition, courtyard landscape would be developed at Terminal 2 Concourse (T2C). With adherence to general principles in Section 2, the proposals for species in courtyard landscape are subject to review and approval by Airfield Department on a case-by-case basis. Flora species approved for courtyard planning shall be documented, and from time to time supplemented, modified or replaced with the agreement of Airfield Department.

4 Hong Kong Port (HKP)

The HKP is a transportation hub connecting Hong Kong-Zhuhai-Macao Bridge (HZMB), the airport and other link roads. The artificial island is connected to the airport by Chek Lap Kok Road and is located at least 1.4 km away from the nearest end of the South Runway. Relatively few birds are likely to habitually use the approach corridor above HKP island, as well as the departure flight path, which is of a steeper gradient, and most of these will be small in size.

5 Zones

The airport island and HKP area is divided into five zones based on location airside or landside and distance from the runway centerline (Figure 1). Planting criteria in each zone are described below and summarized in Table 1. All new landscape proposals should be submitted to Airfield Department for review and approval on a case-by-case basis. Proposals for species not in this APSL or for planting of species that are not in the appropriate zones shall be documented, and from time to time supplemented, modified or replaced with the

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agreement of Airfield Department. For the purposes of review and approval, the proposals may be forwarded to the Authority's other relevant departments.



Figure 1. Zoning of the airport island for existing platform and future Third Runway System (3RS)

Airside

Only grass of less than 200mm in height is permitted.

Future proposals for outdoor landscape planting adjacent to or within a passenger terminal structure (as may be required for a courtyard, external smoking area or balcony) in the Airside area shall be reviewed by AAHK's bird control service consultant and approved by AAHK on a case-by-case basis to avoid or minimise any bird attraction. Vegetation proposed should follow the management requirements stated in this APSL, or any specific management criteria as recommended in the landscape proposals and approved by AAHK.

Zone 1

Grass and ground cover of less than 200mm in height is permitted; climbers that do not produce fleshy fruit can be planted in areas not exceeding $25m^2$, with regular pruning to control its spread; regularly pruned shrubs that do not produce fleshy fruit and are of less than 1.5m in height and $25m^2$ in area are also allowed. Bird monitoring of any newly planted areas in Zone 1 is required to evaluate the attractiveness of the new planting to birds.

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Zone 2

In this zone climbers, palms, cycads, trees or shrubs are acceptable only if they do not produce fleshy fruit. Species, height and canopy structure of most of the existing, planted palms, cycads and trees have been strictly reviewed and managed to control their spread and height so as not to be attractive to birds. With the support of routine bird monitoring data and practical tree maintenance practice, the majority of the existing palms, cycads and trees have been restricted to a height range of 5-10m. The exceptions are some areas with mature trees or tree groups (such as Casuarina equisetifolia along Chun Wan Road, and Delonix regia next to Catering Road West) that are at least 10m in height, which have been present since airport inception (Figure 2). These trees and tree groups are present along busy roads (e.g. Chun Wan Road and Catering Road West) and are separated from the runway by tall buildings. Implementing a height restriction (5-10m) on these existing trees may require excessive pruning of canopies, which could negatively influence overall tree structures. Routine bird monitoring has revealed that these areas are not very attractive to birds. In addition, for all existing planted palms, cycads and trees, their suitability and horticultural maintenance practice will be regularly reviewed by AAHK, and their attraction to birds will be monitored by AAHK's bird control service consultant.

As a precautionary measure and for effective horticultural maintenance, a height restriction of 5-10m applies to future planting of palms, cycads and trees; in addition, trees that could produce a spreading crown and/or develop a tall structure should be avoided. The selection of small trees is preferred as a long-term management and maintenance approach to future planting in this zone.

Future planting of palms, cycads, ravenala, bamboos and trees should be in groups of 50 individuals or fewer. The area of each tree group should not exceed 150m², and shrubs / climbers should be planted in areas of no more than 500m². Routine horticultural maintenance should be carried out to maintain vegetation groups of smaller sizes as far as practical. The height restriction of existing and newly-planted shrubs is 1.5m.

Existing planted palms, cycads, ravenala, bamboos, trees and shrubs are monitored by AAHK's bird control service consultant for usage by birds, and by AAHK. The planted area can be no more than 500 m² for palms, cycads ravenala, bamboos and trees, and 1,000m² for shrubs and climbers. The linear segregation for adjacent groups of palms, cycad, ravenala, bamboo, trees and shrubs should be at least 50m; however, this segregation restriction can be relaxed if the plantation is assessed as not creating significant or hazardous attraction to birds by AAHK's bird control service consultant.

Trees that produce fleshy fruits should be avoided in future planting in Zone 1, 2, 2a and areas in Zone 3 close to the runway and the airfield. Should new fleshy fruit-bearing tree individuals be proposed and/or planted in these zones, strong justification for such proposal should be provided.

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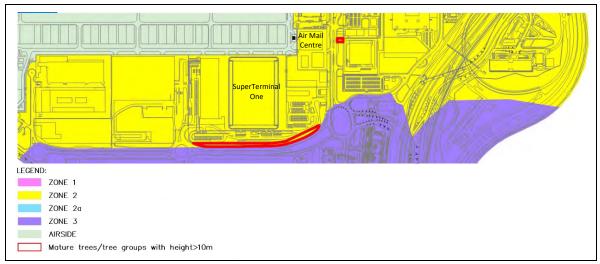


Figure 2. Locations of the mature trees/ tree groups with height >10m in Zone 2

Zone 2a

Zone 2a has been formulated based on existing planting guidelines and maintenance practice in Zone 2, including a prohibition on planting fleshy fruit bearing plants and a requirement for regular shrub pruning, to avoid creating a habitat that might be used by large numbers of birds, in particular hazardous species. The relaxation of planting area for shrubs and trees releases landside area (e.g., planting areas underneath highways with high vertical clearance and considerable sunlight from both sides) for soft landscaping and tree transplanting in the future.

Most of the plant species that are acceptable in Zone 2 are permitted in Zone 2a. However, in view of the more exposed environment at HKP, trees that are vulnerable to strong wind should be avoided. Any landscape proposals for new tree planting or transplantation to this zone should take into account sensitivity to exposed sites, and be reviewed by the Airfield Department for approval on a case-by-case basis.

Future planting of shrubs and climbers should be in areas of no more than 1000m², while the height restriction on newly-planted shrubs remains at 1.5m. Planting of palms, cycads, ravenala, bamboos and trees should be in groups not exceeding 500m², with a linear separation of tree groups of at least 50m. The height restriction on palms, cycads and trees is 5-10m, and planting of small-sized palms, cycads and trees are preferable as a long-term plant management approach in this zone. Should tree species of a mature size exceeding 10m be planted in the future, routine horticultural maintenance should be carried out to control height.

Transplantation of trees from the airport island to the HKP is acceptable if the above principles are adopted. Planting guidelines and restrictions on newly planted trees in Zone 2a are also applicable to the trees transplanted to HKP.

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Zone 3

Trees, shrubs and palms are allowed since much of this zone is relatively far from the runway centerline; in addition, management control of plant growth and planting works in Zone 2 has reduced bird occurrence in areas close to the airfield. Nonetheless, in regard to the potential increase in development projects and associated landscaping in Zone 3, certain restrictions on species selection and the implementation of horticultural maintenance practices should be followed.

For existing species, bird usage of large trees with a complex structure that could potentially encourage bird foraging or perching should be monitored. Existing plant species with fleshy fruits should also be monitored for bird attraction. In addition, to streamline long-term management and maintenance, in areas close to Zone 2 planting of large and continuous groups of trees, palms, cycads and ravenala that set fleshy fruits should be avoided. New planting of certain species, e.g. *Ficus benjamina* and *Ficus microcarpa*, which provide abundant fleshy fruit, should not be carried out. Any further transplantation of existing *Ficus* spp. to Zone 3 should be planned carefully (e.g. planted in areas far away from the runway and the airfield), and these trees should be transplanted in small groups to minimise their attractiveness to birds. Should AAHK's bird control consultant consider the transplanted *Ficus* trees attract a potentially hazardous number of birds, measures for removal of fleshy fruits from these trees should be adopted on regular basis.

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6 Approved Plant Species List (APSL)

The plant species allowed in each zone are stated below in the Approved Plant Species List (APSL). The acceptability of each species and management strategy has been evaluated based on their growth form and attraction to wildlife, particularly birds. Plant species proposed in respective proposals should also be subject to review by Airfield department and other relevant departments. The APSL (**Table 2**) provides the most updated flora list to be followed in future planting proposals in each zone in the landside areas on the airport island.

On rare occasions, flora species not in the APSL may be proposed for assessment by AAHK's bird control service consultant. Approval may be granted, with conditions (such as appropriate vegetation management to control the tree spread and remove any potential attractive fleshy fruits), if appropriate, if the proposed species are not considered to pose unacceptable attraction to wildlife, particularly birds.

Natural colonization means that the plant community in the airport island will change over time. AAHK's bird control service consultant conducts monthly landside bird surveys and annual vegetation surveys, submits reports on the monitoring with reference to the APSL when required, and assesses whether vegetation at the Airport is appropriate in regard to its attraction to birds.

7 Bibliography

Corlett, R.T. 1992. Plants attractive to frugivorous birds in Hong Kong. *Memoirs of the Hong Kong Natural History Society* 19: 115-116.

Corlett, R.T. 1998. Frugivory and seed dispersal by birds in Hong Kong shrubland. *FORKTAIL* 13: 23-27

Corlett, R.T. 2011. Seed dispersal in Hong Kong, China: past, present and possible futures. *Integrative Zoology* 6: 97-109.

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Table 1. SUMMARY TABLE OF THE PLANTING GUIDELINES STIPULATED IN RESPECTIVE ZONES

	Existing plant species ¹ Future planting and transplantation					
Airside	Only grass of less than 200mm in hei	of less than 200mm in height is permitted.				
Zone 1	 Climbers that do not produce fles exceeding 25m², with regular pruning Regularly pruned shrubs that do not part and < 25m² in area are allowed; 	monitoring of any newly planted areas in Zone 1 is required to evaluate				
Zone 2	•	 Selection of small trees is preferred as a long-term management and maintenance approach to future planting in this zone; A height restriction of 5-10m applies to future planting of palms, cycads and trees. Trees that could produce a spreading crown and/or develop a tall structure should be avoided; Future planting of palms, cycads, ravenala, bamboos and trees should be in groups of 50 individuals or fewer; The area of each tree group should not exceed 150m², and shrubs/climbers should be planted in areas of no more than 500m². Routine horticultural maintenance should be carried out to maintain vegetation groups of smaller sizes as far as practical. The height restriction of existing and newlyplanted shrubs is 1.5m. Trees that produce fleshy fruits should be avoided in future planting 				
	bamboo, trees and shrubs should be at least 50m. This segregation restriction can be relaxed if the plantation is assessed as not creating significant or hazardous	in Zone 1, 2, 2a and areas in Zone 3 close to the runway and the airfield. Should new fleshy fruit-bearing tree individuals be proposed and/or planted in these zones, strong				

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attraction to birds by AAHK's bird control service consultant.

• Trees and tree groups (such as Casuarina equisetifolia and Delonix regia) that are of at least 10m in height are present since airport inception. They are present along busy roads and are separated from the runway by tall buildings. Close monitoring of these trees and tree groups is required since a height restriction (5-10m) on these trees may require excessive canopy reduction, negative resulting impact on the tree structure and health.

justification for such proposal should be provided.

Zone 2a

- Zone 2a has been formulated based on existing planting guidelines and maintenance practice in Zone 2, including a prohibition on planting fleshy fruit bearing plants and a requirement for regular shrub pruning, to avoid creating a habitat that might be used by large numbers of birds, in particular hazardous species.
- Most of the plant species that are acceptable in Zone 2 are permitted in Zone 2a, except those trees that are vulnerable to strong wind which should be avoided.
- Any landscape proposals for new tree planting or transplantation to HKP should take into account sensitivity to exposed sites, and be reviewed by the Airfield Department for approval on a case-by-case basis.
 - Shrubs and climbers should be in areas of no more than 1,000m², while the height restriction on newly planted shrubs remains at 1.5m;
 - Planting of palms, cycads, ravenala, bamboos and trees should be in groups not exceeding 500m², with a linear separation of tree groups of at least 50m;
 - The height restriction on palms, cycads and trees is 5-10m, and planting of small-sized palms, cycads and trees are preferable as a long-term plant management approach;

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		 Should tree species of a mature size exceeding 10m be planted in the future, routine horticultural maintenance should be carried out to control height. Trees transplanted from the airport island to the HKP is acceptable if the above principles are adopted; Planting guidelines and restrictions on newly planted trees in Zone 2a are also applicable to the trees transplanted to HKP.
Zone 3	 Trees, shrubs and palms are allowed runway centerline. Bird usage of large trees with a complex structure that could potentially encourage bird foraging or perching should be monitored; Existing plant species with fleshy fruits should also be monitored for bird attraction. 	 Planting of large and continuous groups of trees, palms, cycads and ravenala that set fleshy fruits should be avoided; New planting of certain species, e.g. Ficus benjamina and Ficus microcarpa, which provide abundant fleshy fruit, should not be carried out. Transplantation of existing Ficus sp. to Zone 3 should be planned carefully (e.g. planted in areas far away from the runway and the airfield), and these trees should be transplanted in small groups to minimise their attractiveness to birds.

Notes:

- 1. Existing plant species refers to the species which have been planted after the commissioning of HKIA and exist in respective zones when APSL (Rev. 6.0) is in effective.
- 2. Future planting and transplantation refer to the plant species which will be proposed in future landscape proposal/plan after APSL (Rev. 6.0) is in effective.

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Table 2. FLORA SPECIES APPROVED FOR FUTURE PLANTING IN AIRSIDE, ZONES 1, 2, 2a and 3

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
Trees							
Acacia auriculiformis	耳莢相思	N	N	N (only allowed for existing individuals already planted)	N	N (only allowed for existing individuals already planted)	This exotic species cannot be further planted in Zones 2 and 3 since existing environment will be changed due to development projects. Any existing individuals already planted in Zones 2 and 3 (areas away from runway and airfield in both zones) are allowed but should be regularly pruned to remove any fleshy fruits.
Acacia confusa	台灣相思	N	N	Y	Υ	Y	Requires regular pruning in Zone 2.
Acacia mangium	馬占相思	N	N	N (only allowed for existing individuals already planted)	N	N (only allowed for existing individuals already planted)	This species cannot be further planted in Zones 2 and 3 since existing environment will be changed due to development projects. Any existing individuals already planted in Zones 2 and 3 (areas away from runway and airfield in both zones) are allowed but should be regularly pruned to remove any fleshy fruits.
Acerpalmatum Jinling Huang-feng	金陵黄楓	N	N	Υ	N	Υ	It is recommended to use the cultivar that does not produce fruit.
Acer palmatum 'Atropurpureum'	紅楓	N	N	Y	N	Υ	
Albizia julibrissin	合歡	N	N	Y	N	Y	This is a large tree with open canopy; its spreading structure, heavy flowering and insect load encourage bird's perching and foraging on trees. It is acceptable in small scale planting in areas away from runway and airfield in Zones 2 and 3.

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
Albizia lebbeck	大葉合 歡	N	N	Y	N	Y	This is a large tree with open canopy; its spreading structure, heavy flowering and insect load encourage bird's perching and foraging on trees. It is acceptable in small-scale planting in areas away from runway and airfield in Zones 2 and 3.
Aleurites montana	皺桐	N	N	Υ	Y	Υ	This species can produce showy flowers and with maximum height up to 20m. Acceptable in limited use and small-scale planting in areas away from runway and airfield. AAHK should control the tree height as a long-term tree management approach in Zones 2, 2a and 3.
Bauhinia x blakeana	洋紫荊	N	N	Υ	Υ	Υ	
Bauhinia purpurea	紅花羊 蹄甲	N	N	Υ	Y	Υ	
Bauhinia variegata / Camel's foot tree	宮粉花 羊蹄甲	N	N	Υ	Y	Υ	
Bauhinia variegata var. candida	白花羊 蹄甲	N	N	Υ	Y	Υ	
Brachychiton acerifolius	槭葉酒 瓶樹	N	N	Υ	Y	Υ	This species can produce showy flowers and with maximum height up to 20m. Acceptable in limited use and small-scale planting in areas away from runway and airfield. AAHK should control the tree height as a long-term tree management approach in Zones 2, 2a and 3.
Brassaia actinophylla	澳洲鴨 腳木	N	N	Y	Y	Υ	Same as Schefflera actinophylla; this species can produce fruits which are eaten by many birds. Unless the flower spikes can be regularly removed once it is developed, this species is not recommended in any areas which are close to the runways and airfield.

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
Callistemon rigidus	紅千層	N	Z	Y	Y	Y	Flowers may be very attractive to small birds and produce perches for birds; only limited use and small-scale planting is allowed in Zones 2 and 2a, as well as the areas in Zone 3 which are away from Zone 2 and the airfield.
Callistemon viminalis	串錢柳	N	N	Υ	Υ	Υ	
Cassia fistula	豬腸豆	N	N	Υ	Υ	Υ	AAHK has to control the tree height as a long-term tree management approach in Zones 2, 2a and 3.
Cassia nodosa (New scientific name: Cassia javanica var. indochinensis)	爪哇旃 那	N	N	Υ	Y	Y	Requires regular pruning in Zones 2 and 2a.
Cassia siamea	鐵刀木	N	N	Υ	Υ	Υ	
Cassia spectabilis	美國槐	N	N	Υ	Υ	Υ	Requires regular pruning in Zones 2 and 2a.
Cassia surattensis	黃槐	N	N	Υ	Υ	Υ	Requires regular pruning in Zones 2 and 2a.
Casuarina equisetifolia	木麻黄	N	N	Υ	Υ	Υ	Requires regular pruning in Zones 2 and 2a.
Cerasus sp.	櫻花	Ν	Ν	Υ	Y	Y	The cultivars and varieties of this <i>Cerasus</i> sp. for ornamental use usually do not produce fleshy fruits that attract birds. Therefore, this species is still accepted in Zones 2, 2a and 3. Please make sure that the chosen cultivated specimens of <i>Cerasus</i> sp. will not produce fruits so as to minimize its attraction to birds. Moreover, for those in Zones 2 and 2a, it should be monitored regularly for any production of fruits.
Cerasus cv. Guangzhou	櫻花 (廣 州櫻)	N	N	Υ	Y	Υ	The cultivars and varieties of <i>Cerasus</i> sp. for ornamental use usually do not produce fleshy fruits that attract birds. Any planted individuals, especially those planted in Zones 2 and 2a, should be monitored regularly for any production of fruits.

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
Cerasus cv. Zhongguohong	櫻花 (中 國紅)	N	N	Υ	Y	Y	The cultivars and varieties of <i>Cerasus</i> sp. for ornamental use usually do not produce fleshy fruits that attract birds. Any planted individuals, especially those planted in Zones 2 and 2a, should be monitored regularly for any production of fruits.
Cerbera manghas	海芒果	N	N	Υ	Y	Υ	Recommend to have small-scale planting in Zones 2 and 2a; also planted in areas away from the public in view of the production of poisonous fruits.
Chukrasia tabularis	麻楝	N	N	Υ	Y	Υ	AAHK has to control the tree height as a long-term tree management approach in Zones 2, 2a and 3.
Coccoloba uvifera	海葡萄	N	N	Υ	Y	Υ	Removal any fleshy fruits wherever possible. Requires regular pruning if planted in Zones 2 and 2a.
Crateva unilocularis	樹頭菜	N	N	Υ	Y	Υ	Tree produces dry fruits which are not attractive and too large for birds to eat. This species is allowed in Zones 2, 2a and 3. Tree may able to grow more than 10m in the long-term, and AAHK has to control the tree height as tree management approach in the planting zones.
Delonix regia	鳳凰木	N	N	Υ	N	Υ	This species has open and spreading canopy. It is quite vulnerable to storm damage due to its brittle wood. It is only acceptable in small-scale planting in areas away from the airfield and Zone 1. It also requires regular pruning to control its spread in Zones 2 and 3.
Euphorbia cotinifolia	紅烏桕	N	N	Υ	Υ	Υ	Requires regular pruning in Zones 2 and 2a.

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
Ficus benjamina	垂葉榕	N	N	N (only allowed for existing individuals already planted)	N	N (only allowed for existing individuals already planted)	This species cannot be further planted in Zones 2, 2a and 3 since existing environment will be changed due to development projects. Any existing individuals already planted in Zones 2 and 3 (areas away from runway and airfield in both zones) can be allowed but they should be regularly pruned to remove any fleshy fruits.
Ficus crassifolia	厚葉榕	N	N	N (only allowed for existing individuals already planted)	N	N (only allowed for existing individuals already planted)	Ficus crassifolia is equivalent to Ficus microcarpa var. crassifolia. Depending on the type of cultivar, this could become a larger shrub/ tree. Any existing individuals already planted in Zones 2 and 3 (areas away from the runway and airfield in both zones) can be allowed but they should be regularly pruned to maintain a ball or cone shape, and any fleshy fruits should be removed during pruning.
Ficus microcarpa	細葉榕	N	N	N (only allowed for existing individuals already planted)	N	N (only allowed for existing individuals already planted)	This species cannot be further planted in any zones, or in any area close to the airfield due to its production of fruits which may attract birds. Depending on the type of cultivar, this could become larger shrub/ tree. Any existing individuals already planted in Zones 2 and 3 (areas away from the runway and airfield in both zones) can be allowed but they should be regularly pruned to remove all fleshy fruits.
Ficus microcarpa L.f	圓葉榕	N	N	Y	Y	Y	This <i>Ficus</i> species can be accepted in Zones 2, 2a and 3 only if its cultivar form (production of sterile fruits) is used and only small-scale planting (i.e. planting area can be no more than 1000 sq. meter) is allowed. Regular pruning of this species should be carried out in Zone 2 and areas close to the runway and the airfield to maintain its dense low canopy.

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
Grevillea banksii	紅花銀樺	N	N	Υ	Υ	Y	This can produce large and open canopy. Acceptable only in small-scale planting. AAHK should control the tree height as a long-term tree management approach in Zones 2, 2a and 3.
Grevillea robusta	銀樺	N	N	Υ	Y	Y	This can produce large and open canopy. Acceptable only in small-scale planting. AAHK should control the tree height as a long-term tree management approach in Zones 2, 2a and 3.
Heteropanax fragrans	幌傘楓	N	N	Y	N	Υ	Acceptable in areas away from the airfield; AAHK should control the tree height as a long-term tree management approach in Zones 2 and 3.
Hibiscus tiliaceus	黃槿	N	2	Y	N	Y	This is a small tree that birds may use for shelter. Large-scale planting should be avoided, esp. in areas near Zone 1 and the runway. The planting area can be no more than 500 sq. meter following the restriction stipulated in APSL Rev. 6.
Jacaranda acutifolia (New scientific name: Jacaranda mimosifolia)	藍花楹	N	Z	Y	N	Υ	This species has a medium tree size and produces showy flowers, but is very vulnerable to storm damage due to its brittle wood. It is only acceptable in small-scale planting if it is planted in Zone 2.
Juniperus chinensis	龍柏	N	N	Υ	Υ	Y	Regular pruning to maintain height < 5m in Zone 2.
Juniperus formosana	刺柏/針	N	N	Y	Y	Y	Requires removal of fruits in Zones 2 and 2a. Acceptable in areas away from the runway and the airfield only. Regular pruning should be applied in Zone 2.
Koelreuteria bipinnata	複葉欒 樹	N	N	Υ	N	Υ	Acceptable in areas away from the airfield and runway; AAHK should control the tree height as a long-term tree management approach in Zones 2 and 3.
Koelreuteria formosana	台灣欒樹	N	N	Y	N	Y	Acceptable in areas away from the airfield and runway; AAHK should control the tree height as a long-term tree management approach in Zones 2and 3.

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
Lagerstroemia speciosa	大葉紫 薇	N	N	Υ	Υ	Υ	Acceptable in areas away from the runway and airfield only.
Melaleuca bracteata	黄金香柳	N	N	Υ	Y	Y	Flowers of this species may be regularly visited by bird flocks, like tree <i>Melaleuca cajuputi</i> subsp. <i>cumingiana</i> . This species is acceptable in Zone 2, but regular pruning should be adopted to control its height as shrub or small tree, and monitoring of its attractiveness to birds is required.
Melia azedarach	苦楝	N	N	N (only allowed for existing individuals already planted)	N	Y	This species cannot be further planted in Zones 1 2, 2a or in any area close to the airfield, due to its production of fruits which may attract birds. Depending on the type of cultivar, this could become larger tree. Any existing individuals already planted in Zone 2 (areas away from the runway and airfield) can be allowed but they should be regularly pruned to remove all fleshy fruits.
Michelia alba	白玉蘭	N	N	Υ	N	Υ	This species has a spreading canopy which encourages bird's foraging. This species can only be accepted in small-scale planting in areas away from the airfield and runway.
Michelia champaca	黄玉蘭	N	N	Y	N	Y	This species has a spreading canopy which encourages bird's foraging. This species can only be accepted in small-scale planting in areas away from the airfield and runway.
Michelia chapensis	樂昌含 笑	N	N	Y	N	Y	This species has a spreading canopy which encourages bird's foraging. This species can only be accepted in small-scale planting in areas away from the airfield and runway.
Peltophorum pterocarpum	盾柱木	N	N	Y	Y	Y	The large spreading open canopy may encourage bird perching; preferable to be planted in Zone 3 only, but can have limited use in Zones 2 and 2a areas away from the runway and landside. AAHK has to control the tree height as a long-term tree management approach in Zones 2, 2a and 3.

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
Plumeria obtusa 'Pink Flower'	鈍葉雞 蛋花	N	N	Υ	Y	Υ	Acceptable only in limited use in Zones, 2, 2a and 3 (areas away from the airfield and the runway in these zones).
Plumeria rubra	雞蛋花	N	N	Υ	Υ	Υ	Acceptable only in limited use in areas away from the airfield and the runway.
Podocarpus macrophyllus	羅漢松	N	N	Y	Y	Υ	Acceptable in areas away from the runway and the airfield if routine pruning and vegetation maintenance work is applied to this species so as to reduce its attraction to birds.
Polyalthia longifolia 'Pendula'	長葉暗 羅	N	N	Υ	Y	Υ	
Prunus subgenus Cerasus	櫻花	N	N	Y	Y	Υ	Only the cultivar forms with no fleshy fruits are allowed for planting in Zones 2, 2a and 3. Any planted individuals, especially those planted in Zones 2 and 2a, should be monitored regularly for any production of fruits if in case the source of the cultivar is in doubt.
Saraca asoca	無憂樹	N	N	Y	Y	Y	Acceptable in areas away from the airfield and runway. It should be emphasized that this species can grow into a tall tree with spreading canopy. AAHK has to control the tree height as a long-term tree management approach in Zones 2, 2a and 3.
Sophora japonica cv. Golden stem	黄金槐 (金枝槐)	Ν	Z	Y	N	Y	Acceptable for sterile cultivar to be planted in areas away from the runway and airfield. Maximum height of this species can reach 25m, AAHK has to control the tree height as a long-term tree management approach in Zones 2 and 3.
Spathodea campanulata	火焰木	N	N	Y	Y	Y	This species can produce showy flowers attracting small to medium-sized birds. It can only be used in limited use in areas away from the runway and the airfield. AAHK has to control the tree height as a long-term tree management approach in Zones 2, 2a and 3.

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
Tabebuia argentea	銀鱗風鈴木	N	N	Υ	Υ	Υ	Acceptable in areas away from the airfield and runway. AAHK has to control the tree height as a long-term tree management approach in Zones 2, 2a and 3.
Tabebuia chrysantha	黄花風 鈴木	Ν	N	Υ	Υ	Y	Acceptable in areas away from the airfield and runway. AAHK has to control the tree height as a long-term tree management approach in Zones 2, 2a and 3.
Tabebuia impetiginosa	紫花風 鈴木	N	N	Υ	Υ	Υ	Acceptable in areas away from the airfield and runway. AAHK has to control the tree height as a long-term tree management approach in Zones 2, 2a and 3.
Tabebuia rosea	紅花風 鈴木	N	N	Υ	Υ	Υ	Acceptable in areas away from the runways and airfield; recommend to have small-scale planting in Zones 2 and 2a.
Tabebuia roseo-alba	白玫瑰 鐘木	N	N	Υ	Υ	Υ	Acceptable in areas away from the runways and airfield.
Terminalia mantaly var. tricolor	花葉細 葉欖仁 樹	N	N	Υ	Y	Υ	Acceptable in areas away from the runway and airfield. Drupe fruits may be too large for birds, but possibly eaten by bats, suggest to remove the fruits if this tree has to be planted in Zone 2.
Thespesia populnea	繖楊	N	N	Υ	Y	Υ	Requires regular pruning if planted in Zones 2 and 2a.
Thuja orientalis cv. Aurea Nana	黄金側 柏	N	N	Υ	Υ	Υ	Acceptable in Zone 2 with regular pruning.
Ulmus pumila cv. Jinye	金葉榆	N	N	Υ	N	Υ	Acceptable only in small-scale planting and requires regular pruning to maintain dense low canopy in Zone 2.
SHRUBS/HERBS							
Acacia podalyriifolia	銀葉金 合歡	N	Y	Y	Y	Y	This small tree can reach 6m or more when mature, and the fleshy arils of the dry seed pods are quite attractive to birds. Only small-scale planting is allowed in areas away from the runway and airfield. Regular pruning is required to control its height <1.5m, as well as removing its attractive seed pods.

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
Acalypha hispida	狗尾紅	N	Υ	Υ	Υ	Y	Acceptable in Zone 1 if regular pruning is carried out to maintain its small size of less than 1.5m.
Ardisia fordii	紫金牛	N	N	Υ	Υ	Υ	Acceptable in areas away from the airfield and runway if regular and special pruning occur at the end of flowering season to remove all fruits.
Agave spp.	龍舌蘭	N	N	Υ	N	Υ	Its tall flower spike is very attractive to birds and needs regular removal. This species should not be planted at a large-scale. Flower spikes should also be removed.
Agave americana	黄邊龍 舌蘭	N	N	Υ	N	Υ	Remove the flower spikes if planted in Zones 2 and 2a.
Agave angustifolia	狹葉龍 舌蘭	N	N	Υ	N	Y	Same as <i>Agave americana</i> .
Aglaia odorata	米仔蘭	N	N	Υ	Y	Υ	Regular pruning to maintain the shrubs to less than 1.5m should be adopted in Zones 2 and 2a.
Aglaonema 'Silver King'	銀皇后	N	Υ	Υ	Y	Y	
Allamanda blanchetii	紫花黃 蟬	N	Y	Υ	Y	Υ	Regular pruning to maintain the shrubs to less than 1.5m should be adopted in Zone 1.
Allamanda cathartica	軟枝黃 蟬	N	Y	Υ	Y	Y	Regular pruning to maintain the shrubs to less than 1.5m should be adopted in Zone 1.
Allamanda nerifolia (New scientific name: Allamanda schottii)	硬枝黃 蟬	N	Y	Υ	Y	Y	Regular pruning to maintain the shrubs to less than 1.5m should be adopted in Zone 1.
Allamanda spp.	黄蟬類	N	Υ	Υ	Υ	Υ	Regular pruning to maintain the shrubs to less than 1.5m should be adopted in Zone 1.
Alpinia purpurata Pink	粉紅山 姜	N	N	Υ	Y	Y	
Alpinia speciosa	艷山薑	N	N	Υ	Υ	Υ	

Scientific names	Common	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
(New scientific name: Alpinia zerumbet)							
Alternanthera versicolor							
(New scientific name: Alternanthera bettzickiana)	錦繡莧	N	N	Y	Y	Y	
Amaryllis spp. (Hippeastrum spp.).	朱頂紅 屬	N	N	Υ	Y	Υ	
Asparagus sprengeri (Asparagus densiflorus cv. Sprengeri)	非洲天門冬	N	Z	Υ	Y	Υ	
Barleria cristata	假杜鵑	N	N	Υ	Y	Υ	
Begonia spp.	秋海棠 屬	N	N	Υ	Y	Υ	
Bougainvilla spp.	勒杜鵑	N	Υ	Υ	Y	Υ	Regular pruning to maintain dense low canopy in Zones 1 2 and 2a.
<i>Brunfelsia acuminata</i> Benth	鴛鴦茉 莉	N	Ν	Υ	Υ	Υ	
Buddleja davidii	大花醉 魚草	N	N	Υ	Y	Υ	Acceptable only in limited use in Zone 2. This species is quite invasive in the planting areas.
Caesalpinia pulcherrima	洋金鳳	N	N	Υ	Y	Υ	Regular pruning to maintain dense low canopy in Zone 2.
Calathea spp.	肖竹芋 屬	N	N	Υ	Y	Υ	
Calliandra haematocephala	紅絨球	N	N	Y	Y	Y	Regular pruning to maintain a dense low canopy in Zones 2 and 2a.

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
Calliandra harrisii	澳洲粉 樸	N	Y	Υ	Y	Υ	Regular pruning to maintain the shrubs to less than 1.5m should be adopted in Zone 1. Regular pruning to maintain a dense low canopy in Zones 2 and 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield.
Calliandra surinamensis Benth	粉撲花	N	Y	Υ	Y	Υ	This species produces showy flowers and dry seeds, and can be regularly visited by small birds; acceptable only in small-scale planting with regular pruning to maintain its height less than 1.5m in Zone 1, and dense low canopy if it is planted in Zones 2 and 2a.
Camellia japonica (Red/ white Flower)	山茶 (紅 /白花)	N	Z	Υ	Y	Y	This species is not appropriate for heavy pruning, and may form closed canopy structure to attract birds. This species can be in limited use, and accepted in small-scale planting in areas away from the runway and airfield.
Camellia japonica 'Alba- plena' (White Flower)	山茶 (白 花)	N	Z	Υ	Y	Y	This species is not appropriate for heavy pruning, and may form closed canopy structure to attract birds. This species can be in limited use, and accepted in small-scale planting in areas away from the runway and airfield.
Camellia japonica 'Rosedale beauty' (Red/ pink Flower)	山茶 (紅 花)	N	N	Υ	Y	Υ	This species is not appropriate for heavy pruning, and may form closed canopy structure to attract birds. This species can be in limited use, and accepted in small-scale planting in areas away from the runway and airfield.
Canna indica	美人蕉	N	N	Υ	Υ	Υ	
Canna x generalis	大花美 人蕉	N	N	Υ	Y	Υ	
Carmona microphyll	福建茶	N	Υ	Υ	Y	Υ	Acceptable in Zones 1 2 and 2a only if regular pruning is adopted to maintain its dense low canopy.
Cassia alata (New scientific name: Senna alata)	- 有翅決 明	N	N	Υ	Y	Υ	

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
Cassia surattensis							
(New scientific name: Senna surattensis)	黄槐	N	N	Y	N	Y	Requires regular pruning if planted in Zone 2.
Catharanthus roseus	長春花	N	N	Υ	Υ	Υ	
Clerodendrum quadriloculare	煙火樹	N	N	Y	Y	Y	This shrub species can produce large quantity of fleshy fruits which are attractive and dispersed by birds. It can only be planted in small-scale, and in areas in Zone 2, 2a and 3 where are close to building blocks and away from airfield and runway. Removal of its fleshy fruits is required.
Clerodendrum thomsonea	龍吐珠	N	N	Υ	Y	Y	
Clerodendrum ugandense	藍蝴蝶	N	N	Υ	Υ	Υ	
Codiaeum variegatum	灑金榕	N	Y	Y	Y	Υ	Accepted only cultivar form 'Indian Blanket' of this species with no production of fleshy fruits can be allowed in the airport island, future Third Runway area, and the infrastructural works to be completed near the airport island.
Codiaeum variegatum 'Indian Blanket'	彩霞變 葉木	N	N	Υ	Y	Υ	
Coleus hybridus	洋紫蘇	N	N	Υ	Υ	Υ	
Cordyline terminalis	鐵樹	N	N	Y	Y	Υ	Fleshy fruits can attract birds; acceptable only in small-scale planting in areas close to building blocks and away from the airfield and runway. Removal of fruits is also required in these areas.
Cordyline terminalis cv. Dolly	娃娃朱 蕉	N	N	Υ	Y	Y	The cultivar form of this species may not produce fleshy fruits; acceptable only in small-scale planting in areas close to building blocks and away from the airfield and runway.

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
Cordyline terminalis cv. Rubra	紅葉鐵樹	N	N	Y	Υ	Υ	The cultivar form of this species may not produce fleshy fruits; acceptable only in small-scale planting in areas close to building blocks and away from the airfield and runway.
Cuphea spp.	萼距花 屬	N	N	Υ	Υ	Υ	Cuphea spp. acceptable in Zone 2 with regular pruning.
Cupressus macroglossus cv. Goldcrest	香冠柏	N	Y	Υ	Υ	Υ	Regular pruning is required for Zones 1 and 2; it should be pruned in ball or cone shape if used in Zone 1 and should be pruned to height less than 1.5m tall.
Daphne odora f. marginata	金邊瑞香	N	N	Υ	Υ	Υ	
Dieffenbachia amoena	黛粉葉	N	N	Υ	Υ	Υ	
Dietes bicolor	雙色非 洲鳶尾	N	N	Υ	Υ	Υ	
Dracaena angustifolia	狹葉龍 血樹	Z	N	N (only allowed for existing individuals already planted)	N	Υ	Not recommended in Zones 2 and 2a as it can develop into heavy clump with fleshy fruit attractive to birds. Any existing individuals can be allowed in areas away from the airfield and runway, if they can be regularly pruned and any produced fleshy fruits are removed during the pruning.
Dracaena marginata	紅邊龍血樹	N	N	Y	N	Y	The species should be regularly pruned and any produced fleshy fruits would be removed during the pruning, if it is planted in Zone 2, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield. Please make sure that regular pruning practice would be maintained to remove the fleshy fruits.

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
Dracaena fragrans	巴西鐵樹	N	N	Υ	Y	Υ	Fleshy fruits can attract birds; acceptable only in small-scale planting in areas close to building blocks and away from the airfield and runway. Removal of fruits is also required in these areas.
Dracaena godffiana 'Bausei'	黄道星 點木	N	N	Υ	Y	Υ	The cultivar form of this species may not produce fleshy fruits; acceptable only in small-scale planting in areas close to building blocks and away from the airfield and runway.
Dracaena marginata 'Tricolor Rainbow'	彩虹竹蕉	Ν	Z	Y	Y	Y	The cultivar form of this species may not produce fleshy fruits; acceptable only in small-scale planting in areas close to building blocks and away from the airfield and runway, if it is planted in Zone 2.
Dracaena reflexa 'Song of Jamaica'	百合竹	N	N	Y	Y	Y	The cultivar form of this species may not produce fleshy fruits; acceptable only in small-scale planting in areas close to building blocks and away from the airfield and runway, if it is planted in Zone 2.
Dracaena reflexa 'Variegata'	金邊百合竹	N	Z	Υ	Y	Υ	The cultivar form of this species may not produce fleshy fruits; acceptable only in small-scale planting in areas close to building blocks and away from the airfield and runway, if it is planted in Zone 2.
Dracaena sanderiana	白邊萬年竹	N	N	Υ	Y	Υ	The cultivar form of this species may not produce fleshy fruits; acceptable only in small-scale planting in areas close to building blocks and away from the airfield and runway, if it is planted in Zone 2.
Dracaena sanderiana 'Golden Edge'	黄邊萬 年竹	N	N	Y	Y	Υ	The cultivar form of this species may not produce fleshy fruits; acceptable only in small-scale planting in areas close to building blocks and away from the airfield and runway, if it is planted in Zone 2.

Scientific names	Common	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
Duranta repens	假連翹	N	N	Υ	Y	Υ	Fruits are attractive to birds and regular removal of fruits by pruning is required, if it is planted in Zones 2 and 2a, as well as the areas in Zone 3 which are close to the airfield and runway.
Duranta repens cv. Marginata	金邊金露花	Ν	N	Υ	Υ	Υ	Fruits are attractive to birds and regular removal of fruits by pruning is required if it is planted in Zones 2 and 2a, as well as the areas in Zone 3 which are close to the airfield and runway.
Duranta repens 'Golden Lleaves'	金連翹	N	N	Υ	Υ	Υ	Fruits are attractive to birds and regular removal of fruits by pruning is required, if it is planted in Zones 2 and 2a, as well as the areas in Zone 3 which are close to airfield and runway.
Duranta repens 'Variegata'	花葉假 連翹	N	N	Υ	Υ	Υ	Fruits are attractive to birds and regular removal of fruits by pruning is required, if it is planted in Zones 2 and 2a, as well as the areas in Zone 3 which are close to airfield
Eupatorium fortunei	佩蘭	N	Y	Υ	Y	Υ	
Euphorbia leucocephala	白雪木	N	N	Υ	Y	Υ	Regular pruning to maintain a dense low canopy in Zones 2 and 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield.
Excoecaria cochinchinensis	紅背桂	N	Υ	Υ	Υ	Υ	
Fagraea ceilanica	非洲茉 莉	N	N	Υ	Υ	Υ	Regular pruning should be maintained to reduce its dense cover in Zones 2 and 2a.
Fagraea ceilanica 'Golden Leaves'	金葉灰 莉	N	N	Υ	Υ	Υ	Regular pruning should be maintained to reduce its dense cover in Zones 2 and 2a.
Fatsia japonica	八角金盤	N	N	Υ	Y	Y	Fruits are attractive to birds. Pruning is required to remove all fruits. Only small scale planting is allowed in areas away from the airfield.

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
Ficus benjamina 'Variegata'	白斑垂榕	N	N	Y	Y	Υ	This <i>Ficus</i> species can be accepted only if its cultivar form (production of sterile fruits) is used, and only small-scale planting (i.e. planting area can be no more than 1000 sq. meter) is allowed. Regular pruning of this species should be carried out to maintain its dense low canopy.
Ficus microcarpa cv. Golden Leaves	金葉榕	N	N	Υ	Y	Υ	This <i>Ficus</i> species can be accepted only if its cultivar form (production of sterile fruits) is used and only small-scale planting (i.e. planting area can be no more than 500sq. meter for initial planting and 1000 sq. meter for existing planted groups) is allowed. Regular pruning of this species should be carried out to maintain its dense low canopy.
Furcraea foetida	黄紋萬 年麻	N	N	Υ	N	Υ	Acceptable in limited use and removal of flower spikes is required in Zones 2 and 2a.
Gardenia jasminoides	白蟬	N	N	Υ	Y	Υ	Flowers are quite attractive to small birds. Acceptable only in small-scale planting and with regular pruning in Zones 2 and 2a, as well as areas in Zone 3 which are close to Zone 2 and the airfield.
Gomphocarpus physocarpus	汽球花	N	N	Υ	Y	Υ	
Gordonia axillaries	大頭茶	N	N	Υ	Υ	Υ	Regular pruning to maintain height <1.5m in Zone 2.
Hibiscus hamabo	黄芙蓉	N	N	Υ	Υ	Υ	
Hibiscus mutabilis	木芙蓉	N	N	Υ	Y	Y	Showy flowers may be visited by sunbirds and this species is not suitable for heavy pruning. Limited use in Zone 2 is acceptable if it is planted in areas away from the runway and airfield.
Hibiscus rosa sinensis (red/orange/pink/yellow flowers)	大紅花 (紅花/白 花/粉花 /黄花)	N	N	Υ	Y	Υ	

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Hibiscus schizopetalus	吊燈花	N	Ν	Υ	Υ	Y	Showy flowers may be visited by sunbirds and this species is not suitable for heavy pruning. Limited use in Zone 2 is acceptable if it is planted in areas away from the runway and airfield.
Hibiscus syriacus	木槿	N	N	Υ	Υ	Υ	
Iris tectorum	鳶尾 (雙 色)	N	N	Υ	Υ	Υ	
Ixora chinensis	龍船花	N	Y	Υ	Y	Y	Regular pruning to maintain its height <1.5m and in small-scale planting in Zone 1. Regular pruning is required in other Zones, except areas in Zone 3 which are away from Zone 2 and the airfield.
Ixora coccinea	龍船花	N	Y	Y	Y	Y	Regular pruning to maintain its height <1.5m and in small-scale planting in Zone 1. Regular pruning is required in other Zones, except areas in Zone 3 which are away from Zone 2 and the airfield.
<i>Ixora duffii</i> 'Super King'	大王龍 船花	N	Y	Υ	Υ	Υ	The cultivar form may still produce fruits to attract birds, acceptable only in limited use and with regular pruning in Zones 1, 2 and 2a.
lxora parviflora	白龍船花	Ν	Y	Y	Y	Y	The cultivar form may still produce fruits to attract birds, acceptable only in limited use and with regular pruning in Zones 1, 2 and 2a, as well as the areas in Zone 3 which are close to Zone 2 and the airfield.
Ixora stricta	細葉龍 船花	N	Y	Y	Y	Y	The cultivar form may still produce fruits to attract birds, acceptable only in limited use and with regular pruning in Zones 1, 2 and 2a, as well as the areas in Zone 3 which are close to Zone 2 and the airfield.
Ixora x westii	宮粉龍 船花	N	Y	Y	Y	Y	The cultivar form may still produce fruits to attract birds, acceptable only in limited use and with regular pruning in Zones 1, 2 and 2a, as well as the areas in Zone 3 which are close to Zone 2 and the airfield.

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Jasminum mesnyi	黄素聲	N	N	Υ	Y	Υ	Regular pruning work is required in Zones 2 and 2a, as well as the areas in Zone 3 which are close to Zone 2 and the airfield.
Jasminum sambac	茉莉	N	N	Υ	Y	Υ	Regular pruning work is required in Zones 2 and 2a, as well as the areas in Zone 3 which are close to Zone 2 and the airfield.
Jatropha integerrima	琴葉珊 瑚	N	N	Υ	Y	Υ	Only allowed if planted in low number in areas close to the airfield.
Jatropha pandurifolia	日日櫻	N	N	Υ	Υ	Υ	
Lagerstroemia indica	細葉紫 薇	N	N	Υ	Y	Υ	
Lagerstroemia indica 'Pink velour'	美國天 鵝絨細 葉紫薇	N	N	Υ	Y	Υ	Acceptable in small-scale planting in areas away from the runway and airfield.
Leucophyllum frutescens (round shape)	紅花玉 芙蓉 (圓 形)	N	Y	Υ	Y	Υ	Only acceptable in Zone 1 with regular pruning to maintain its low dense form and height <1.5m.
Ligustrum sinense 'Variegatum'	花葉山 指甲	N	N	Υ	Y	Υ	Acceptable in small-scale planting in areas away from the airfield and runway.
Ligustrum ovalifolium	卵葉女 貞	N	Y	Υ	Y	Υ	Acceptable in small-scale planting in areas away from the airfield and runway. Regular pruning is required especially in Zone 1.
Loropetalum chinensis var. rubrum	紅繼木	N	Y	Υ	Y	Υ	Acceptable in small-scale planting in the areas away from runway and airfield. Regular pruning is required especially in Zone 1.
Malvaviscus arboreus var. penduliflorus	垂花懸 鈴花	N	N	Υ	Y	Υ	

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Melastoma candidum	野牡丹	N	N	Y	Y	Υ	Allowed in the areas away from the airfield and runway. The species should be regularly pruned in Zones 2 and 2a, as well as the areas in Zone 3 which are close to Zone 2 and the airfield. Any produced fleshy fruits would be removed during the pruning. Please make sure that regular pruning practice would be maintained to remove the fleshy fruits to maintain the ball-cone shape of the species.
Michelia figo	含笑	N	Υ	Υ	Υ	Υ	Acceptable in small-scale planting in areas away from the airfield and runway. Regular pruning is required in Zone 1.
Michelia figo (Tree shape)	含笑樹	N	N	Υ	Υ	Υ	Not suitable for heavy pruning, but acceptable in small-scale planting in Zones 2 and 2a
Murraya paniculata	九里香	N	N	Υ	Υ	Υ	Regular pruning is required and small-scale planting of this species is acceptable in Zones 2 and 2a.
Nandina domestica	南天竺	N	N	Υ	Υ	Υ	Regular pruning is required and small-scale planting of this species is acceptable in Zones 2 and 2a.
Nephrolepis exaltata (New scientific name: Nephrolepis hirsutula)	毛葉腎 蕨	N	N	Υ	Y	Y	
Nerium oleander (Also known as Nerium indicum as its synonym)	洋夾竹桃	N	Y	Υ	Y	Υ	Regular pruning is required and small-scale planting of this species is acceptable in Zones 1, 2 and 2a.
Nerium oleander 'Petite Pink'		N	N	Υ	Υ	Υ	Acceptable but regular pruning to control its spread; this species is poisonous as a reminder
Osmanthus fragrans	桂花	N	Υ	Υ	Υ	Υ	Regular pruning is required and small-scale planting of this species is acceptable in Zone 1.
Otacanthus coeruleus	藍金花	N	Y	Υ	Υ	Υ	
Pentas lanceolata	五星花	N	N	Υ	Υ	Υ	

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Philodendron selloum	春羽	N	N	Υ	Υ	Υ	
Phyllanthus myrtifolius	瘤腺葉 下珠	N	N	Υ	Υ	Y	
Pilea nummularifolia	古錢冷 水花	N	N	Υ	Υ	Υ	
Pistacia weinmannifolia	清香木	N	N	Y	Y	Y	The species planted in Zone 2, as well as the areas in Zone 3 which are close to Zone 2 and the airfield, should be regularly pruned. Any produced fleshy fruits would be removed in all planting zones. Regular pruning practice would be maintained to remove the fleshy fruits to maintain the ball-cone shape of the species.
Pittosporum tobira	海桐花	N	N	Υ	Υ	Y	Regular pruning is required if it is planted in Zones 2 and 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield.
Plumbago capensis	藍雪花	N	N	Υ	Υ	Υ	
Polyscias fruticosa	裂葉假 沙梨	N	N	Υ	Y	Υ	
Polyscias guilfoylei	假沙梨	N	N	Υ	Υ	Υ	
Polyscias scutellaria	圓葉假 沙梨	N	N	Υ	Υ	Υ	
Rhaphiolepis indica	車輪梅	N	N	Y	N	Y	Fruits are attractive to birds. Pruning is required to remove all fruits if this species must be planted in Zones 2 and 2a. Only small scale planting is allowed in Zones 2 and 2a but it is required to closely monitor its growing. Small-scale planting is allowed in Zone 3.
Rhododendron spp.	山杜鵑	N	Y	Y	Y	Y	Regular pruning to maintain the shrubs to less than 1.5m should be adopted in Zones 1, 2, 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield.

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Rhododendron farrerae	丁香杜鵑	N	Y	Υ	Y	Υ	Regular pruning to maintain height < 1.5m is required in Zones 1, 2 and 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield.
Rhododendron hybridum	西洋杜鵑	N	Y	Υ	Y	Y	Regular pruning to maintain height < 1.5m is required in Zones 1, 2 and 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield.
Rhododendron indica	皋月杜 鵑	N	Υ	Y	Υ	Υ	Regular pruning to maintain height < 1.5m is required in Zones 1, 2 and 2a as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield.
Rhododendron Iapponicum	高山杜 鵑花	N	Υ	Y	Y	Y	Showy flowers occasionally attract small birds. It is acceptable in Zones 1, 2 and 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield, if regular pruning is carried out to maintain the small shrub form.
Rhododendron lateritum	磚紅杜 鵑	N	Υ	Υ	Y	Υ	Regular pruning to maintain height < 1.5m is required in Zones 1, 2 and 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield.
Rhododendron mucronatum	白杜鵑	N	Υ	Υ	Y	Υ	Regular pruning to maintain height < 1.5m is required in Zones 1, 2 and 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield.
Rhododendron mucronatum 'Akemono'	平戶杜 鵑(粉紅)	N	Y	Υ	Υ	Υ	Regular pruning to maintain height < 1.5m is required in Zones 1, 2 and 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield.
Rhododendron mucronatum 'omuraski'	平戶杜 鵑(紫紅)	N	Y	Υ	Y	Υ	Regular pruning to maintain height < 1.5m is required in Zones 1, 2 and 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield.
Rhododendron pulchrum	紫花杜鵑	N	Y	Υ	Y	Y	Regular pruning to maintain height < 1.5m is required in Zones 1, 2 and 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield.

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Rhododendron pulchrum var. phoeniceum	紫杜鵑	N	Υ	Υ	Υ	Υ	Regular pruning to maintain height < 1.5m is required in Zones 1, 2 and 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield.
Rhododendron simsii	紅花杜鵑	N	Υ	Υ	Y	Υ	Regular pruning to maintain height < 1.5m is required in Zones 1, 2 and 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield.
Rhododendron simsii "GR"	紅杜鵑	N	Y	Υ	Y	Υ	Regular pruning to maintain height < 1.5m is required in Zones 1, 2 and 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield.
Rondeletia odorata	郎德木	N	N	Y	Y	Y	Regular pruning is required in Zones 2 and 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield.
Ruellia coerulea	翠蘆利	N	Υ	Υ	Υ	Υ	
Ruellia elegans	紅花蘆 莉	N	N	Υ	Y	Υ	
Ruellia rosea	玫紅蘆 莉	N	N	Υ	Y	Υ	
Russelia equisetiformis	吉祥草	N	N	Υ	Υ	Υ	
Saintpaulia idantha (ionantha)	非洲紫 蘿蘭	N	N	Υ	Y	Υ	
Schefflera arboricola	八葉	N	Y	Y	Y	Y	This cultivar species normally does not produce fleshy fruits. This is acceptable in the areas away from the runway and airfield, if it is regularly pruned to maintain its shrub form less than 1.5m tall. Also, all fleshy fruits produced (if any) should be removed.

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Schefflera arboricola 'Golden Marginata'	金邊鵝掌藤	N	N	Υ	Υ	Υ	This cultivar species normally does not produce fleshy fruits. This is acceptable in the areas away from the runway and airfield, if it is regularly pruned to maintain its shrub form less than 1.5m tall. Also, all fleshy fruits produced (if any) should be removed.
Schefflera arboricola 'Variegata'	夏威夷 花八葉	N	Y	Y	Y	Υ	This cultivar species normally does not produce fleshy fruits. This is acceptable in the areas away from the runway and airfield, if it is regularly pruned to maintain its shrub form less than 1.5m tall. Also, all fleshy fruits produced (if any) should be removed.
Schefflera octophylla 'Var'	荷蘭鴨 腳木	N	Z	Υ	Y	Υ	This cultivar species normally does not produce fleshy fruits. This is acceptable in the areas away from the runway and airfield, if it is regularly pruned to maintain its shrub form less than 1.5m tall. Also, all fleshy fruits produced (if any) should be removed.
Serissa japonica 'Variegata'	金邊六月雪	N	Z	Υ	Υ	Υ	Regular pruning is required to maintain dense low canopy in Zones 2 and 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield.
Spathiphyllum commutatum	白掌	N	N	Υ	Υ	Υ	
Strelitzia nicolai	大鶴望 蘭	N	Y	Υ	Υ	Υ	
Strelitzia reginae	鶴望蘭	N	N	Υ	Υ	Υ	
Stromanthe sanguinea 'Tricolor'	三色竹 芋	N	N	Υ	Υ	Υ	
Syzygium campanulatum	星加坡楠	N	N	Y	Y	Υ	This species can produce fleshy fruit potentially attractive to birds. This can be acceptable in areas away from runway and the airfield, if regular pruning and removal of fleshy fruit are applied in these areas.

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
Syzygium rehderianum	紅枝蒲桃	N	Z	Υ	Y	Y	Allowed in small-scale planting in areas away from the runway and airfield. The species should be regularly pruned and any produced fleshy fruits would be removed during the pruning. Please make sure that regular pruning practice would be maintained to remove the fleshy fruits to maintain the ball-cone shape of the species.
Tabernaemontana divaricata	珍珠馬 茶花	N	Υ	Υ	Υ	Υ	Small-scale planting and regular pruning to maintain dense low canopy are required in Zone 1.
Tecoma stans	黃鐘花	N	N	Υ	Υ	Υ	
Tecomaria capensis (New scientific name: Tecoma capensis)	洋凌霄	N	Z	Υ	Y	Y	
Thevetia peruviana	黄花夾 竹桃	N	N	Υ	Υ	Υ	Acceptable in small-scale planting in Zones 2 and 2a.
Thryallis glauca	金英	N	N	Υ	Υ	Υ	
Tibouchina semidecandra	巴西野 牡丹	N	Y	Υ	Y	Υ	Small-scale planting and regular pruning to maintain dense low canopy are required in Zone 1.
Vitex agnus-castus	紫花牡 荊	N	N	Υ	Y	Υ	
Vitex rotundifolia	海埔姜 / 單葉蔓 荊	N	N	Υ	Y	Y	Acceptable only on retaining walls at roadside; close monitoring on bird use and fruiting density; remove any fleshy fruits wherever practical in Zones 2 and 2a, as well as the areas in Zone 3 which are close to Zone 2 and the airfield.
Yucca aloifolia	王蘭	N	N	Υ	Υ	Υ	
Zamia furfuracea	金錢樹	N	N	Υ	Y	Y	Removal of any fruit produced is required, if the species is planted in Zones 2 and 2a, as well as the areas in Zone 3 area which are immediately next to Zone 2 and the airfield.

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Zanthoxylum 'Odorum'	胡椒木	N	Y	Υ	Y	Υ	Acceptable in Zones 1, 2 and 2a if regularly pruning is applied.
GROUNDCOVER							
Acorus gramineus 'Variegatus'	花葉石 菖蒲	N	N	Υ	Y	Υ	
Adenium obesum	沙漢玫 瑰	N	N	Υ	Y	Υ	
Aerva sanguinolenta	絹毛莧	N	N	Υ	Υ	Υ	
Alternanthera dentata 'Ruby'	新加坡 紅草	N	N	Υ	Y	Υ	
Alternanthera ficoidea 'Yellow Form'	綠草	N	N	Υ	Y	Υ	
Arachis duranensis	蔓花生	N	Υ	Υ	Υ	Υ	
Asplenium nidus	雀巢芒	N	N	Υ	Υ	Υ	
Buxus microphylla	黄楊	N	N	Υ	Υ	Υ	
Chlorophytum capense	吊蘭	N	N	Υ	Y	Y	
Coleus pumilus (Mixed dwarfed)	小洋紫 蘇	N	N	Υ	Y	Υ	
Dianella ensifolia 'Var'	花葉山 管蘭	N	N	Υ	Y	Υ	
Ipomoea brasiliensis							
(New scientific name: Ipomoea pes-caprae)	馬鞍藤	N	N	Υ	Y	Y	
Iris spp. (Blue folwer)	鳶尾	N	N	Υ	Υ	Υ	
Juniperus horizontalis	地柏/雞 翼松	N	N	Υ	Υ	Υ	Regular pruning is required in the areas close to the airfield and runway in both Zones 2 and 3.

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management			
Lantana mista	黄花馬 櫻丹	N	Υ	Υ	Υ	Υ	Regular pruning is required to maintain dense low canopy in Zones 1 and 2.			
Lantana montevidensis	鋪地臭 金鳳	N	Υ	Υ	Y	Υ	Regular pruning is required to maintain dense low canopy in Zones 1 and 2.			
Liriope spicata	山麥冬	N	N	Υ	Υ	Υ	Close monitoring on bird use and fruit production.			
Liriope spicata 'Dwarf'	日本小 蒲草	N	N	Υ	Y	Υ				
Liriope spicata 'Variegata'	花葉蒲 草	N	N	Υ	Y	Υ				
Maranta bicolor	花葉竹 芋	N	Υ	Υ	Y	Υ				
Neomarica gracilis	巴西鳶 尾	N	N	Υ	Y	Υ				
Nephrolepis exaltata 'Bostoniensis'	波斯頓 蕨	N	N	Υ	Υ	Υ				
Nephrolepis exaltata 'Compacta'	劍蕨	N	N	Υ	Υ	Υ				
Ophiopogon japonicus	沿階草	N	Υ	Υ	Y	Y				
Ophiopogon japonicus 'Variegata'	花葉沿 階草	N	Υ	Υ	Y	Υ				
Peperomia obtusifolia	圓葉椒 草	N	Υ	Υ	Y	Υ	Should maintain regular pruning in Zones 1, 2 and 2a.			
Philodendron (mini)	迷你春 羽	N	N	Y	Y	Υ				
Phyllanthus myrtifolius	錫蘭葉 下珠	N	N	Y	Y	Υ				
Pilea cadierei	冰水花	N	N	Υ	Y	Υ				

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
Rhoeo discolor 'Dwarf'	矮種蚌 花	N	N	Υ	Y	Υ	
Rhoeo discolor (New scientific name: Tradescantia spathacea)	蚌花	N	Z	Υ	Y	Y	
Scindapsus aureus (New scientific name: Epipremnum aureum)	黄金葛	N	N	Υ	Y	Y	Acceptable only on retaining walls at roadside.
Setcreasea purpurea	紫錦草	N	N	Υ	Υ	Υ	
Spathiphyllum 'Clevelandii'	白掌	N	N	Υ	Υ	Υ	
Spathiphyllum 'Rallas'	綠巨人	N	N	Υ	Υ	Y	
Syngonium podophyllum 'White butterfly'	白蝴蝶	N	Y	Υ	Υ	Υ	
Tradescantia zebrina	水竹草	N	N	Υ	Υ	Υ	
Tulbaghia violacea	蒜味草	N	N	Υ	Υ	Υ	
Wedelia trilobata	南美蟛 蜞菊	N	N	Υ	Y	Υ	Regular pruning is required to maintain dense low mat in Zones 2 and 2a.
Zephyranthes candida	ranthes candida 玉簾 N Y Y		Υ				
Zephyranthes candida (white / pink flowers)	玉簾 (白 花/粉花)	N	Y	Υ	Υ	Y	
Zephyranthes rosea	玫瑰玉 簾	N	Y	Υ	Υ	Y	
CLIMBERS							

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
Allamanda blanchetii	紫花黃 蟬	N	N	Υ	Υ	Υ	
Bauhinia glauca	洋蹄甲 藤	N	N	Υ	Υ	Υ	
Bougainvillea spectabilis	簕杜鵑	N	Υ	Υ	Υ	Υ	Regular pruning is required to maintain dense low canopy in Zones 1, 2 and 2a.
Clerodendrum thomsoniae	龍吐珠	N	Υ	Υ	Υ	Υ	Regular pruning to maintain its dense low canopy and remove its fleshy fruits are required when planting in Zones 1 and 2.
Dalbergia benthamii	兩粤黃 檀	N	N	Υ	Y	Υ	
Ficus pumila	薜荔	N	N	Υ	Y	Υ	Close monitoring on bird usage and fruiting density; remove any fleshy fruits wherever practical in Zones 2 and 2a, as well as the areas in Zone 3 which are close to Zone 2 and the airfield.
Parthenocissus himalayana (New scientific name: Parthenocissus dalzielii)	爬墻虎	N	N	Υ	Y	Υ	Acceptable only on retaining walls at roadside.
Pseudocalymma alliaceum (Synonyms: Mansoa alliacea)	蒜香藤	N	Y	Υ	Y	Υ	Regular pruning is required to maintain dense low canopy in Zones 1.
Pyrostegia ignea (New scientific name: Pyrostegia venusta)	炮仗花	N	Y	Y	Y	Y	Acceptable only on retaining walls at roadside.
Scindapsus aureus (New scientific name: Epipremnum aureum)	綠蘿	N	Υ	Υ	Υ	Υ	Acceptable only on retaining walls at roadside.
Wisteria sinensis	紫藤	N	N	Υ	Υ	Υ	

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management
PALMS/ BAMBOOS/ CYCADS/ RAVENALA							
Bambusa multiplex	鳳尾竹	N	N	Υ	Υ	Υ	
Bambusa ventricosa	佛肚竹	N	N	Υ	Υ	Υ	
Bambusa vulgaris	大佛肚 竹	N	N	Υ	Y	Υ	
Caryota ochlandra	魚尾葵	N	N	Υ	Y	Y	Only small scale planting is allowed in Zones 2 and 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield. The bundle of fruits should be removed regularly.
Chamaedorea elegans	袖珍椰 子	N	N	Υ	Y	Y	Acceptable in Zones 2 and 2a, but planted in small-scale.
Chrysalidocarpus lutescens	散尾葵	N	N	Υ	Y	Υ	Small-scale planting is acceptable with removal of any bunches of fruits throughout the maintenance period. And this species should be planted in areas away from the airfield and runways, or with building blocks between the airfield and the planting area.
Cocos nucifera	椰子樹	N	N	Υ	Υ	Υ	
Coryota mitis	短穗魚尾葵	N	N	Υ	Y	Y	Only small scale planting is allowed in Zones 2 and 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield. The bundle of fruits should be removed regularly.
Cycas revoluta	Cycas revoluta 蘇鐵 N		N	Υ	Υ	Υ	
Elaeis guineensis	油棕	N	N	Υ	Υ	Υ	
Livistona chinensis	蒲葵	N	N	Y	Y		Only small scale planting is allowed in Zones 2 and 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield. The bundle of fruits should be removed regularly.

Scientific names	Common names	Airside	Approved in Zone 1	Approved in Zone 2 (Case by case review)	Approved in Zone 2a (Case by case review)	Approved in Zone 3 (Case by case review)	Remarks for planting and management		
Phoenix roebelenii	日本葵	N	N	Υ	Y	Υ	Only small scale planting is allowed in Zones 2 and 2a, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield. The bundle of fruits should be removed regularly.		
Ravenala madagascariensis	旅人蕉	N	N	Υ	Υ	Υ			
Rhapis excelsa	棕竹	N	N	Υ	Υ	Υ			
Rhapis excelsa var. rastifolius	大葉棕 竹	N	N	Υ	Y	Y	Only small scale planting is allowed in Zone 2, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield. The bundle of fruits should be removed regularly in all zones.		
Rhapis humilis	細葉棕 竹	N	N	Y	Y	Y	Only small scale planting is allowed in Zone 2, as well as the areas in Zone 3 which are immediately next to Zone 2 and the airfield. The bundle of fruits should be removed regularly in all zones.		
GRASS									
Chloris gayana	非洲虎 尾草/羅 滋草	Y	N	N	N	N	Regular cutting to prevent seed head production.		
Cynodon dactylon	百慕達 草/ 狗牙 根	Υ	N	N	N	N	Regular cutting to prevent seed head production.		
Paspalum notatum	百喜草	Υ	N	N	N	N	Regular cutting to prevent seed head production.		
Zoysia sp.	結縷草 屬	Υ	Υ	Υ	Υ	Υ	Regular cutting to prevent seed head production.		

Appendix C

Implementation Schedule of all Landscape and Visual Design and Mitigation Measures

Appendix C Implementation Schedule of Landscape and Visual Design and Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation status			
•		(Detailed Design Phase)								
S14.3.3.1	LV1	General design measures include:								
		Roadside planting and planting along the edge of the reclamation is proposed;	ect							
		Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory hydro-seeding and planting;	ect							
		Protection measures for the trees to be retained during construction activities;	ect							
		Optimizing the sizes and spacing of the bridge columns;	pplicable to the Proj	ect						
		Fine-tuning the location of the bridge columns to avoid visually sensitive locations;		Not applicable to the Project						
		Aesthetic design of the bridge form and its structural elements for HKLR, e.g. parapet, soffit, columns, lightings and so on;	ject							
		Considering the decorative urban design elements for HKLR, e.g. decorative road lightings;	Not applicable to the Project							
		Maximizing new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed;	Minimise visual & landscape impact	Detailed designer	HKBCF	Design stage	Fully implemented			
		Providing planting area around peripheral of HKLR and HKBCF for tree planting screening effect;	ject							
		Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline.	Not applicable to the Project							
		For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonic atmosphere of the HKBCF.	Minimise visual & landscape impact	Detailed designer	HKBCF	Design stage	Fully implemented			
		Fine-tuning the sizes of the structural members to minimize the bulkiness of buildings and adjustment of building arrangement to minimise disturbance to surrounding vegetation in the HKBCF,	Minimise visual & landscape impact	Detailed designer	HKBCF	Design stage	Fully implemented			

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementatio n status		
		 For HKLR, providing aesthetic design on the viaduct, tunnel portals, at-grade roads and reclamation (e.g. subtle colour tone and slim form for viaduct to minimize the bulkiness of the structure and to blend the viaduct better with the background environment, featured form of tunnel portals, roadside planting along at-grade roads and landscape berm on & planting along edge of reclamation area) to beautify the HKLR alignment 		Not a	oplicable to the Proj	ect			
Landscape	e & Visual	(Construction Phase)							
S14.3.3.3	LV2	Mitigate both Landscape and Visual Impacts							
		G1. Grass-hydroseed bare soil surface and stock pile areas.	Not a	oplicable to the Proj	ect				
		G1. Grass-flydroseed bare soil surface and stock pile areas.		Not a	opilicable to the Froj	CCI			
		G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge or footbridge to screen bridge and traffic.		Not a	oplicable to the Proj	ect			
		G3. For HKLR, providing aesthetic design on the viaduct, tunnel portals, at-grade roads and reclamation (e.g. subtle colour tone and slim form for viaduct, featured form of tunnel portals, roadside planting along at-grade roads and landscape berm on & planting along edge of reclamation area) to beautify the HKLR alignment.	Not applicable to the Project						
		G4. For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonic atmosphere of the HKBCF (see Figure 14.3.1 for example).	Minimise visual & landscape impact	AAHK/ Contractor	HKBCF	Construction stage	To be implemented		
		G5. Vegetation reinstatement and upgrading to disturbed areas.	Minimise visual & landscape impact	AAHK/ Contractor	HKBCF	Construction stage	To be implemented		
		G6. Maximize new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed.	Minimise visual & landscape impact	AAHK/ Contractor	HKBCF	Construction stage	To be implemented		
		G7. Provide planting area around peripheral of and within HKBCF and	Not applicable to the Project						
		HKLR for tree screening buffer effect.							
		G8. Plant salt tolerant native tree and shrubs etc along the planter strip at affected seawall.		Not a _l	oplicable to the Proj	ect			

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation status						
		G9. Reserve of loose natural granite rocks for re-use. Provide new coastline to adopt "natural-look" by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enhance "natural-look" of the new coastline.		Not ap	oplicable to the Proj	ect							
S14.3.3.3	LV3	Mitigate Visual Impacts											
		V1. Minimize time for construction activities during construction period.	Minimise visual impact	AAHK/ Contractor	HKBCF	Construction stage	To be implemented						
		V2. Provide screen hoarding at the portion of the project site / works areas/ storage areas near VSRs who have close low-level views to the Project during HKLR & HKBCF construction.	Minimise visual impact	AAHK/ Contractor	HKBCF	Construction stage	To be implemented						
Landscape	e & Visual	(Operation Phase)											
S14.3.3.3	LV4	Mitigate both Landscape and Visual Impacts											
		G10. Provide proper planting maintenance on the new planting areas to enhance the aesthetic degree.	Minimise visual & landscape impact	AAHK/ Contractor	HKBCF	Operation stage	To be implemented						
		Mitigate Visual Impacts											
		V3. Lighting design to minimize glare at night. Decorative road lighting to be considered during detailed design stage.	Minimise visual impact	AAHK/ Contractor	HKBCF	Operation stage	To be implemented						