

香港故宮文化博物館  
HONG KONG PALACE MUSEUM

May 2020

**Tree and Turf Grass Planting and Landscape Plan**  
(REV. XC)

**ROCCO**  
许李严

This Tree and Turf Grass Planting and  
Landscape Plan is jointly prepared by:



Rocco Design Architects Limited

Lead Architectural Consultant



Ove Arup & Partners Hong Kong Limited

Structural, Geotechnical & Civil Consultant  
Building Services Consultant  
Fire Services Consultant  
Façade Consultant  
Traffic Consultant  
Landscape Consultant  
Security Consultant  
Environmental & Sustainability Consultant  
Lighting Consultant  
Acoustic Consultant  
Audio Visual Consultant

# CHECKING ROUTING SHEET

CLIENT

West Kowloon Cultural District Authority

PROJECT TITLE

# Consultancy Agreement For Design And Administration of The Construction of The Hong Kong Palace Museum

DOCUMENT TITLE

# Tree and Turf Grass Planting and Landscape Plan (Rev C)

PREPARED BY

NAME

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1/

DATE

12 June 2020

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12 June 2020

**TREE AND TURF GRASS PLANTING AND LANDSCAPE PLAN**

**1.0 TREE AND TURF GRASS PLANTING AND LANDSCAPE PLAN**

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## 1.0 TREE AND TURF GRASS PLANTING AND LANDSCAPE PLAN

### 1.1 OBJECTIVE AND PURPOSE OF THE REPORT

Further to the approval of the Environmental Impact Assessment (EIA) Report in the register (AEIAR-178/2013), the project proponent is required to submit the Tree and Turf Grass Planting and Landscape Plan to compile with the Condition of Approval under Section 8(3) of the EIA Ordinance. This report is prepared for the Hong Kong Palace Museum only, since the Tree and Turf Grass Planting and Landscape Plan will be developed in phases as such there will not be an entire tree and turf grass planting plan serving for the WKCD in this report. Having said that, the report will document the overall plan indicated the phased developments and also interface landscape treatment with other parts of the WKCD. Please refer to **Appendix J**.

### 1.2 PROJECT BACKGROUND

#### 1.2.1 GENERAL

The West Kowloon Cultural District Authority (named “Authority” hereafter) is invested by the Government of the Hong Kong Special Administrative Region to meet the long-term infrastructure needs of the arts and cultural sector, which is a vital part of any world-class city’s economic and social fabric. The West Kowloon Cultural District Authority (“WKCD”) was established under the West Kowloon Cultural District Authority Ordinance (“WKCD Ordinance”), Cap. 601, to develop the WKCD (named “the Site” hereafter). The WKCD include:

- Planning, design and construction of core arts and cultural facilities (CACF), other arts and cultural facilities (OACF), Retail, Dining and Entertainment (RDE) facilities, transport facilities and 23 ha public open space,
- Planning of the WKCD and project management which include consultancies, technical studies and public consultations for the preparation of a development plan for the whole WKCD site, and project management during the planning and construction stage;
- Repair, renovation, management and operation of the CACF; and collection, exhibition development, conservation laboratory equipment and library setup.

#### 1.2.2 THE BUILDING DESIGN

Rocco Design Architects Limited (RDA) was appointed by WKCD as the consultant for the proposed Hong Kong Palace Museum (HKPM) within the Exhibition Hub Development Area (EHDA), which consists of “Other Specified Uses” annotated “Arts, Cultural, Entertainment and Commercial Uses (1)” (OU (ACECU)1) and “Other Specified Uses” annotated “Mixed Uses

(1)” (OU(MU)1) subzones to provide multi-function exhibition spaces as a development magnet at the western end of the WKCD site enhancing visitor flow throughout the district.

### 1.2.3 LAND USE AND DEVELOPMENT PARAMETERS

The proposed HKPM at EHDA is located within sub-zone boundary of “OU (ACECU)1” and will have direct access from the PIW road connected from the roundabout at the junction of Austin Road West and Nga Cheung Road with site area of approximately 13,223m<sup>2</sup>. The proposed HKPM at EHDA would be one of the culture landmarks in WKCD. The Building Plans and Design to refer to Appendix F accordingly.

### 1.3 LANDSCAPE TREE AND TURF PLANTING

#### 1.3.1 OVERALL LANDSCAPE CONCEPT

The overall concept is to create a lush garden space within the HKPM that would provide a sensory environment enabling visitors and museum staffs to relax, contemplate and learn in the landscape. It will facilitate the seamless integration to the architecture and at the same time provide a comfortable gathering place. The garden concept will provide relaxing, tranquil and stimulating zones, drawing on all senses to develop the appreciation of those engaging in the landscape. It involves scent, colour, material and paving textures, movement of plants and the sound of leaves in the wind.

The soft landscape design will capture the greening qualities and character from Chinese landscape visual arts, soft landscape qualities extracted from Beijing Palace Museum (BJPM) and re-interpret in a local context. A mix of planting will be proposed including seasonal flowering shrubs that will produce varying characteristics throughout the year. The resulting space is rich and diverse and provides a location for rest and periodic outdoor activities. In addition, the requirement for greening has been reviewed with reference to Development Bureau’s Guidance Note ‘Guiding Principles on Use of Native Species in Public Works Projects’ [10/2010]. Effort will be undertaken to maximize the use of native species to enhance the biodiversity and public enjoyment. Having said that, as native species do not always provide the degree of thematic consistency to the landscape design, these species will be supplemented by a selection of non-native species, which will extend the palette, and provide greater variety in the landscape. Selected non-native species will, however, comprise of species which are well established in the Hong Kong landscape and are very much part of its visual character. Many of these planting have become naturalized, and are commonly found in Hong Kong and are an identifiable component of the Hong Kong urban landscape.

The required soil depth for the lawn is a minimum of 0.30 metres, shrubs in 0.60 metres and for trees 1.20 metres. The trees should be of heavy standard size when being planted, and again, planted at a variety of heights, ages, and calibres. Especially next to the high buildings, they should have a strong visual and spatial impact from the day of planting.

Please refer to **Appendix A** for HKPM Landscape Master Plan.

The percentage of the native species to be planted are 52.6% ( 20 out of 38 number are native species), which are in line with the district-wide planting principle for achieving 50% native species.

Please refer to **Appendix B** for Planting Schedule for referencing both native and exotic species.

The landscape planting proposed on structure/ deck requires good drainage to ensure its successful establishment and long term growth. The proposed proprietary drainage layer relieves the waterproofing membrane of hydrostatic pressure. In addition, any excess water in the growing medium layer is led away, preventing potential ponding of water in the growing medium that may damage the vegetation. The drainage layer must have a good vertical permeability combined with the ability to transport excess water horizontally away from the slab area to the planter drains.

For planting at-grade, perforated sub-soil drain pipe with overflow atrium drain is proposed to effectively drain and remove excess rainwater from the planter area. The sub-soil drain is installed at least 600mm below the top of soil level, connect to the civil terminal manhole to discharge to the municipal drainage system.

Please refer to **Appendix G** for planter drain and sub-soil drain pipe location.

The trees/ shrubs and turf proposed will require regular watering in the time after immediately following planting until they are fully established within the one year establishment period. The climbers along the wall will also require a permanent micro-drip irrigation system. This is planned through an in-ground automatic irrigation system.

For newly planted trees/ shrubs and ground covers, it is essential to have regular and consistent watering, especially the frequency for watering in the first month is especially high. In view of this, manual irrigation points shall also be proposed as standby option to provide extra irrigation water.

The Automatic drip irrigation system designed for landscape areas could reduce average irrigation requirements by around 10%.

Please refer to **Appendix H** for Irrigation Plan and details.

Base on the specific landscape design of HKPM, a comprehensive detailing of the soft landscape and planting design aim at enhancing the landscape and greening quality during implementation and establishment stage. The planting details are appended in **Appendix I** and including:

- Typical at-grade and on slab planter area for trees/ shrubs/ groundcovers and turfs;
- Erosion Protection Grid for pitched lawn and Erosion Control Cell system to prevent soil erosion. The Park Ramp shall be designed with max. of a 1:5 slope while slope near the accessible ramp shall not be steeper than 1:3 for lawn and groundcover planting;
- Where possible, climbers will be supported by proprietary stainless steel cable system clad on the facade and the wall. The vertical greening will be irrigated from automatic drip irrigation pipes laid within the soil;
- Bamboo staking and guying system for trees and bamboos Planting;
- Proper tree planting practices; and
- External balustrade Details

### 1.3.2 G/F LANDSCAPED DECK TREE AND TURF GRASS PLANTING DESIGN

- Trees and groundcovers will be planted mainly on the eastern side of the Landscape Deck. Trees selected shall be echoed with the imperial planting theme in the Imperial Garden of Beijing, such as *Lagerstroemia indica*, *Platycladus orientalis* and *Viburnum odoratissimum* etc. The proposed species would create an Oriental touch to the HKPM.
- 10 nos. of evergreen *Terminalia mantaly* will be planted for compensatory proposal for the approved Tree Felling Application for HKPM. Along the northern boundary wall, these trees form a thick living wall, providing a sense of enclosure internally and visually buffering the future buildings to the north of the site. *Terminalia mantaly* could reach to a potential height of 10m, and is distinguished by its erect stem and conspicuously layered branches. It has smooth leaves with wavy margins that are bright green in youth. These trees are to be planted at a regular interval (min. 8m spacing) to create a formal backdrop for the Museum plaza. The Tree Felling Application’s approval letter and the Undertaking to refer to **Appendix E** accordingly.
- Behind the tree planting, evergreen climber, *Lonicera japonica*, is planted to effectively cover the boundary fence. These species are quick and

vigorous growers, perform well in variety of conditions, and are particularly amenable to the changing light conditions.

- The understory is composed of species like *Fagraea ceilanica*, *Loropetalum chinense f. rubrum*, and *Ligustrum ovalifolium 'Aureum'* etc. These are large shrub with a dense foliage and wide branching habit. The species provides visual interest and a sense of a contemporary Chinese landscape design.
- The groundcover layer is composed of species of *Zoysia matrella*, *Liriope spicata* and *Zephyranthes candida* etc. to create a simple but elegant green carpet mix for the planting area. Different tones of green are carefully considered and well-spaced to create a visually pleasing green carpet which will also echo the concept of “Central Axis” in BJPM.
- For the planting plan and planting schedule of G/F Landscape Deck, please refer to **Appendix B** accordingly.

### 1.3.3 LG/F TREE AND TURF GRASS PLANTING DESIGN

- To create a sense of leisure and provide flowering feature trees to match with the vivid atmosphere of the Park, the trees will be selected to have extraordinary form with colours. Besides, species will be selected for their tolerance to the exposed windy and salty coastal conditions such as *Lagerstroemia indica* and *Melia azedarach*.
- Some planters at LG/F are partially shaded by the building façade envelope, hence some shade-tolerance species will be considered such as *Liriope spicata* and *Nephrolepis auriculata*.
- For the planting plan and planting schedule of LG/F Landscape Deck, please refer to **Appendix B** accordingly.

### 1.3.4 4/F COURTYARD TREE AND TURF GRASS PLANTING DESIGN

- A bamboo courtyard will be proposed to create a place of contemplation on 4/F. *Phyllostachys nigra* is proposed. It is a gently arching bamboo with slender green canes during the establishment. The canes will eventually turn black as it becomes mature. The bamboo canes are beautiful as the black and shiny stems would create a stunning contrast to the HKPM façade.
- For the planting plan and planting schedule of 4/F Landscape Deck, please refer to **Appendix B** accordingly.

### 1.3.5 PARK RAMP TREE AND TURF GRASS PLANTING DESIGN

- The G/F Landscaped Deck at the elevated pedestrian level of +11.675 is proposed to connect with the Art Park with the construction of a Park Ramp. It is intended to be an inviting and leisure linkage and a spectator

stand for the Freespace Theatre, or for people to leisurely enjoy the scenic views at an elevated height. The gradient of the ramp shall be at maximum 1:5 and *Zoysia matrella* is proposed as a pitched lawn. Near the bottom of the Park Ramp, trees are proposed to seamlessly transit and integrate with the planting palette of the Art Park, with flowering trees species like *Sapium sebiferum*, *Yulania x soulangeana*, and *Viburnum odoratissimum* etc. to create a flamboyant landscape design. Trees are planted in an organically shape, integrated with long benches on the slope, providing shades to the visitors while still preserving sight lines across and over the flora towards the Art Park and beyond.

- For the planting plan and planting schedule of the Park Ramp, please refer to **Appendix B** accordingly.

### 1.3.6 GRASS SPECIES SELECTION

Within in the HKPM site, it is confirmed that no carpet grass of *Axonopus genus*, including *Axonopus compressus* is proposed to adhere to the condition stipulated under the approved EIA report: AEIAR-178-2013. *Zoysia matrella* is therefore proposed after thorough consideration taken into account of aesthetic value and the adaptability to the coastal environment. Likewise, *Zoysia matrella* is also adopted for the Art Park and it creates a coherent turf landscape that in line with the district-wide planting principle.

For the percentage of grass coverage, please refer to **Appendix C** accordingly.

## 1.4 LANDSCAPE TREE AND TURF PLANTING OUTSIDE THE SUBMISSION BOUNDARY

### 1.4.1 GENERAL

The HKPM has two major interfaces with landscape planting in WKCD’s Promenade to the west and the Art Park to the south. The two interfaces have planting areas that they are outside of the Tree and Turf Grass Planting and Landscape Plan Submission. Having said that, planting species are still under the consultant’s consideration to recommend landscaping idea for the future greening provision.

### 1.4.2 PLANTING DESIGN OF THE PROMENADE INTERFACE (WEST)

The Promenade to the west of the HKPM are proposed with tightly planted tree clusters along the Promenade. It also serves to enhance view-sheds from the HKPM to the waterfront. The groups are formed of *Cinnamomum camphora*, evergreen trees which provide shade, screen winds, and loosely define zones for congregation along the Promenade. The statutory-required EVA and 15m Thoroughfare zone circumscribing the building at LG/F inevitably limiting the potentials for landscaping. (Refer to below Figure 4) The Thoroughfare will adopt a “blend-in” approach on ground paving and planter area. There is

*Zoysia matrella* proposed to create a beautiful green carpet running from north to south to be concomitant with the alfresco dining area.

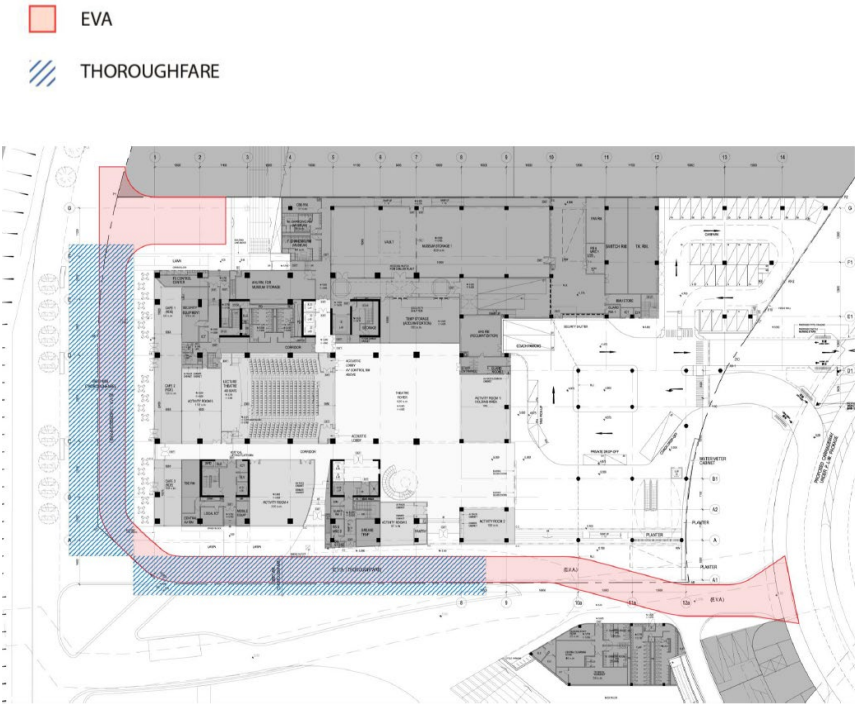


Fig. 4 – HKPM EVA and Thoroughfare Diagram

1.4.3 PLANTING DESIGN OF THE ART PARK INTERFACE (SOUTH)

- *Ficus virens*, *Terminalia mantaly* and cluster of *Bambusa tuldooides* are proposed immediately to the south of the HKPM site, forms the upper canopy to serve as a green enclosure. Proposed shrub planting is to be planted on an informal grid. Plants are to be planted in groups of the same species (group size of at least 20-30 plants).
- For the planting plan and planting schedule of landscape concept outside the Submission boundary, please refer to **Appendix B** accordingly.

1.4.4 HKPM INTERFACE WITH ARTS, COMMERCE AND EXHIBITIONS (ACE) DEVELOPMENT (NORTH AND EAST)

- WKCDA has started planning the development of ACE which comprises an Exhibition Centre to the north of HKPM, with hotel and rental offices and embedded RDE facilities in the adjacent U-shaped site to the east of HKPM . The commencement of the design of the said venues are yet to be confirmed. Nevertheless, the landscape design of these venues shall take into account the landscape concept of HKPM, and paying attention to the interfaces treatment. The consultants of HKPM will proactively liaised with the future ACE design consultants to ensure a coherent

landscape treatment at the interfaces and echo to the overall landscape design concept of the WKCD.

1.5 GREENING COVERAGE

The Site Area of HKPM - Parcel 46A (Under the WKCDA Parcel Coding System) is 16,033 m<sup>2</sup> . The greening coverage requirement under the WKCD Development Plan, to which the Master Register is based, shall be 2,500m<sup>2</sup> . As such, the greening calculation are prepared in accordance with the parameters set out in Appendix D of PNAP APP-152, in which the minimum required greenery for HKPM and Park Ramp shall be 20% of Site Area = 3,207m<sup>2</sup> .

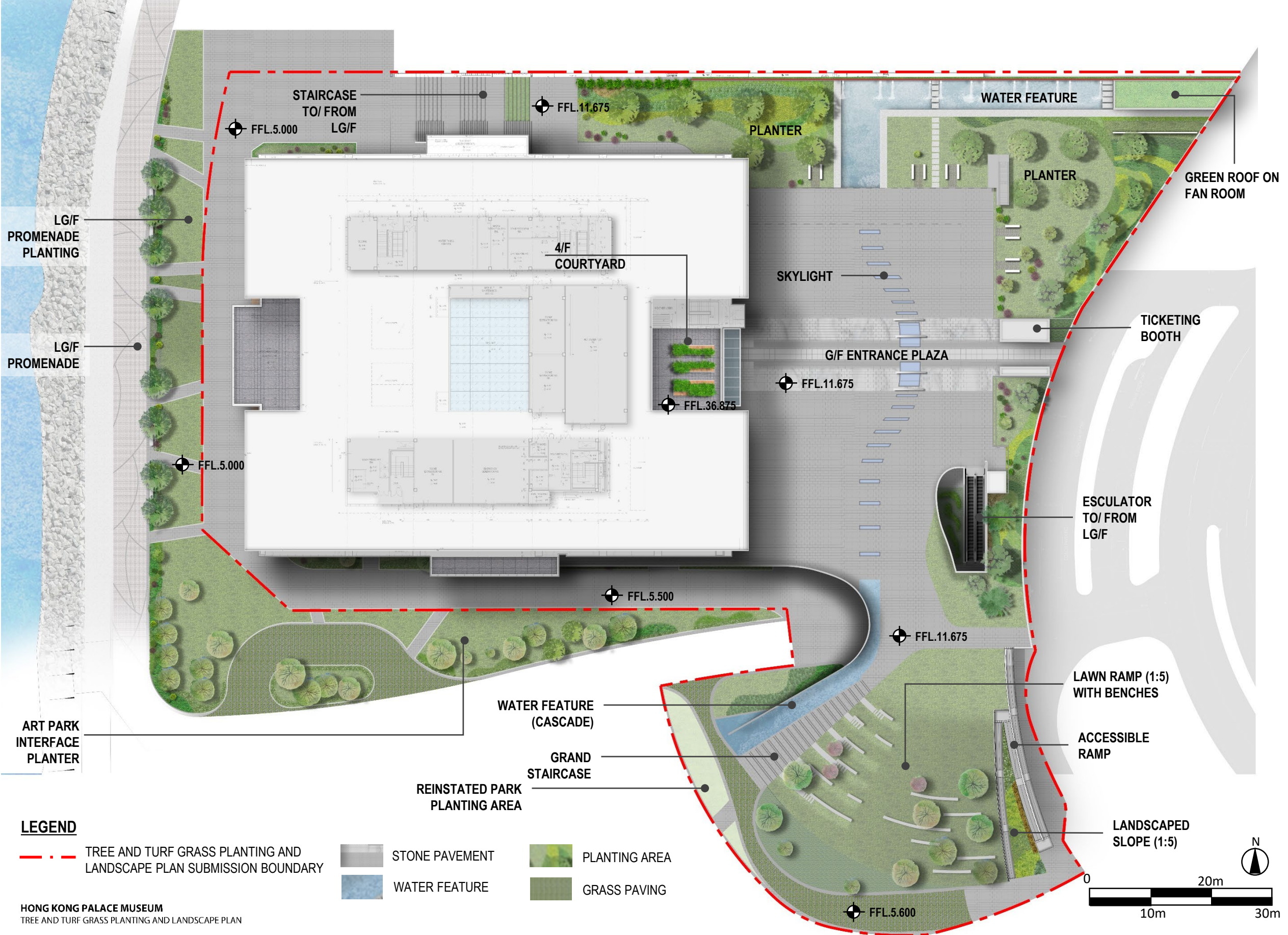
The detail greening coverage calculation to refer to **Appendix C** accordingly.

1.6 POST PLANTING CARE PLAN

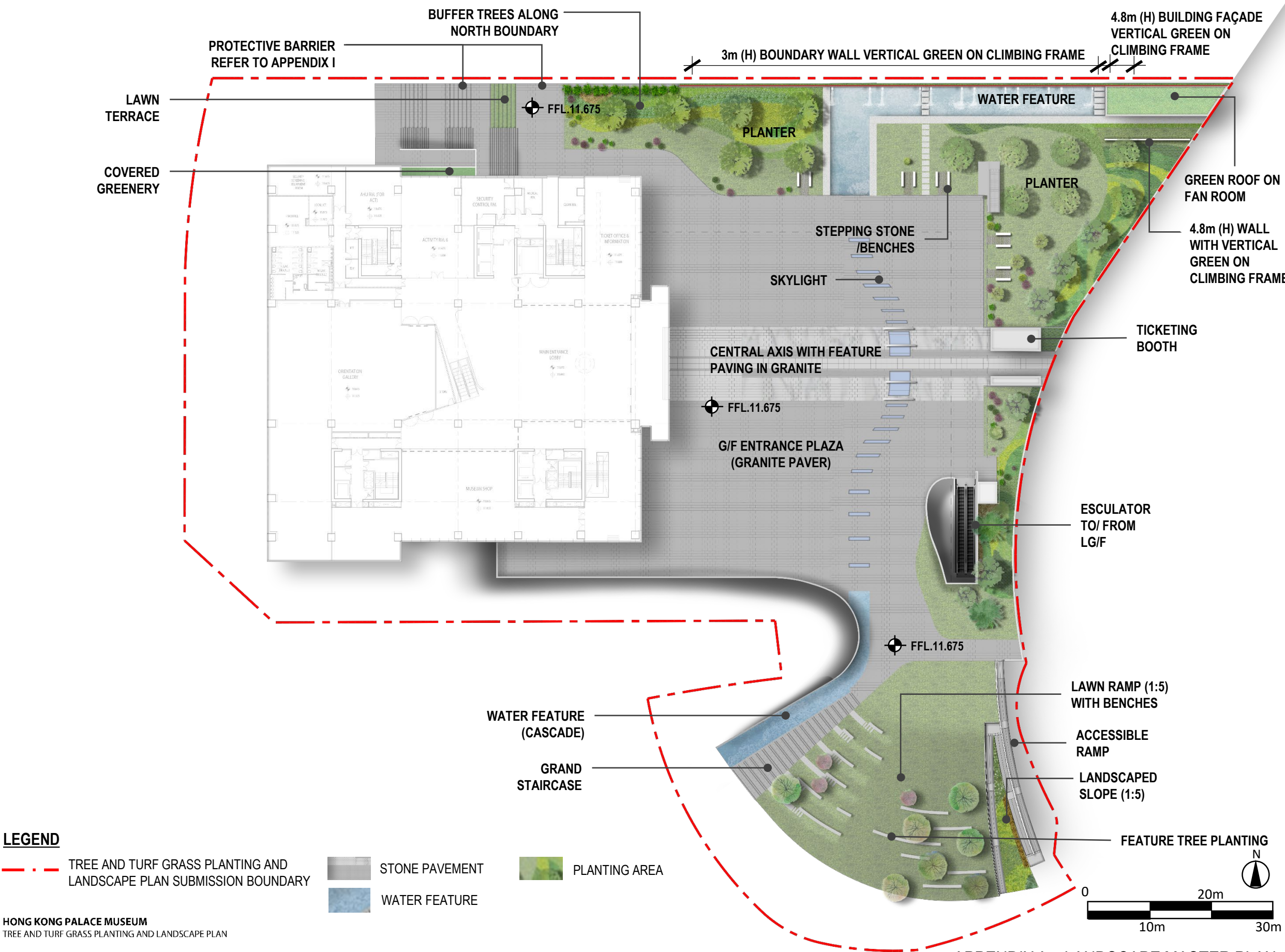
Routine maintenance operations for the landscape works, i.e. Post Planting Care Plan are provided in **Appendix D**.



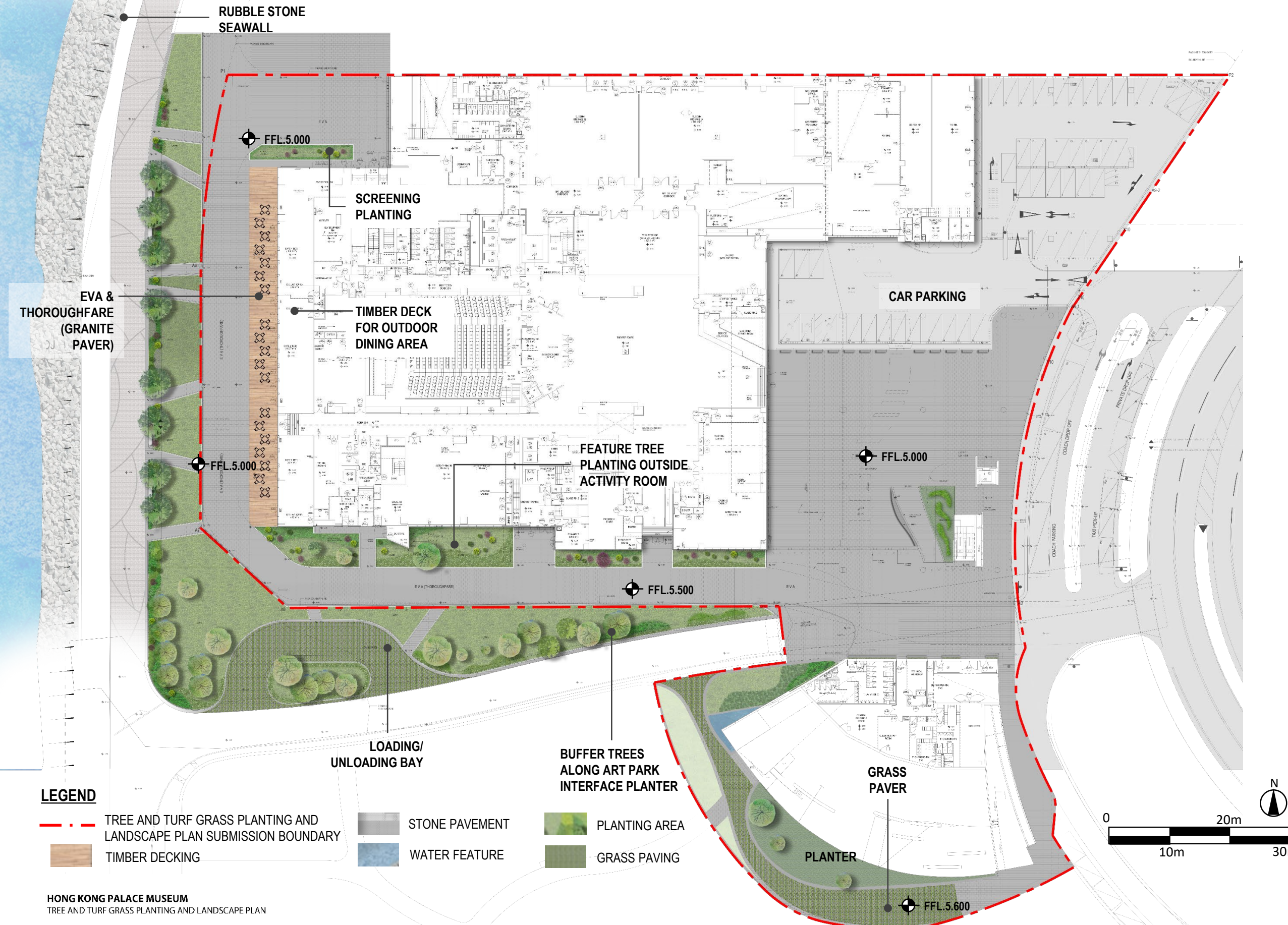
HONG KONG PALACE MUSEUM OVERALL LANDSCAPE MASTER PLAN



HONG KONG PALACE MUSEUM G/F LANDSCAPE PLAN



HONG KONG PALACE MUSEUM LG/F LANDSCAPE PLAN



LEGEND

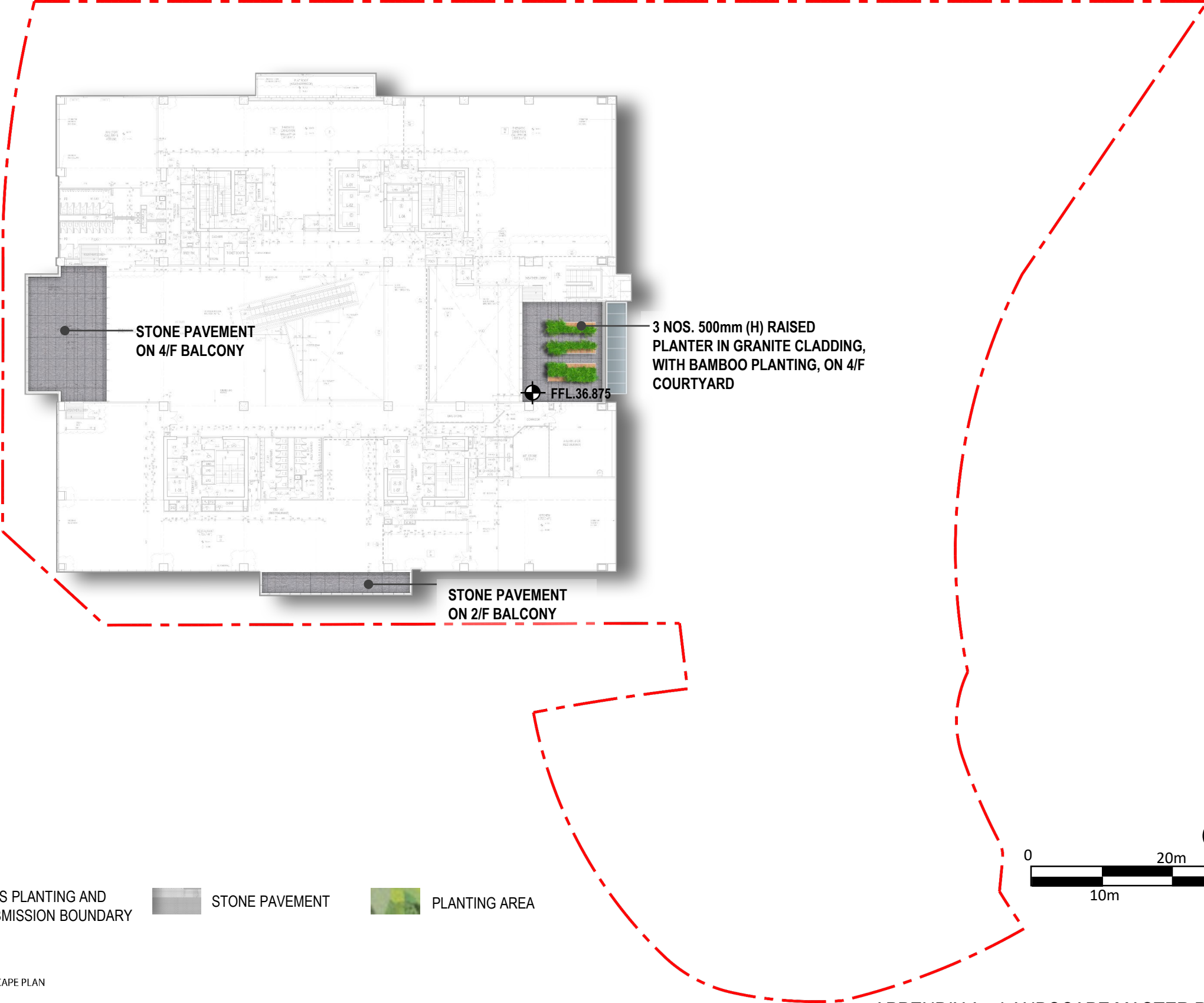
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- TIMBER DECKING

- STONE PAVEMENT
- WATER FEATURE

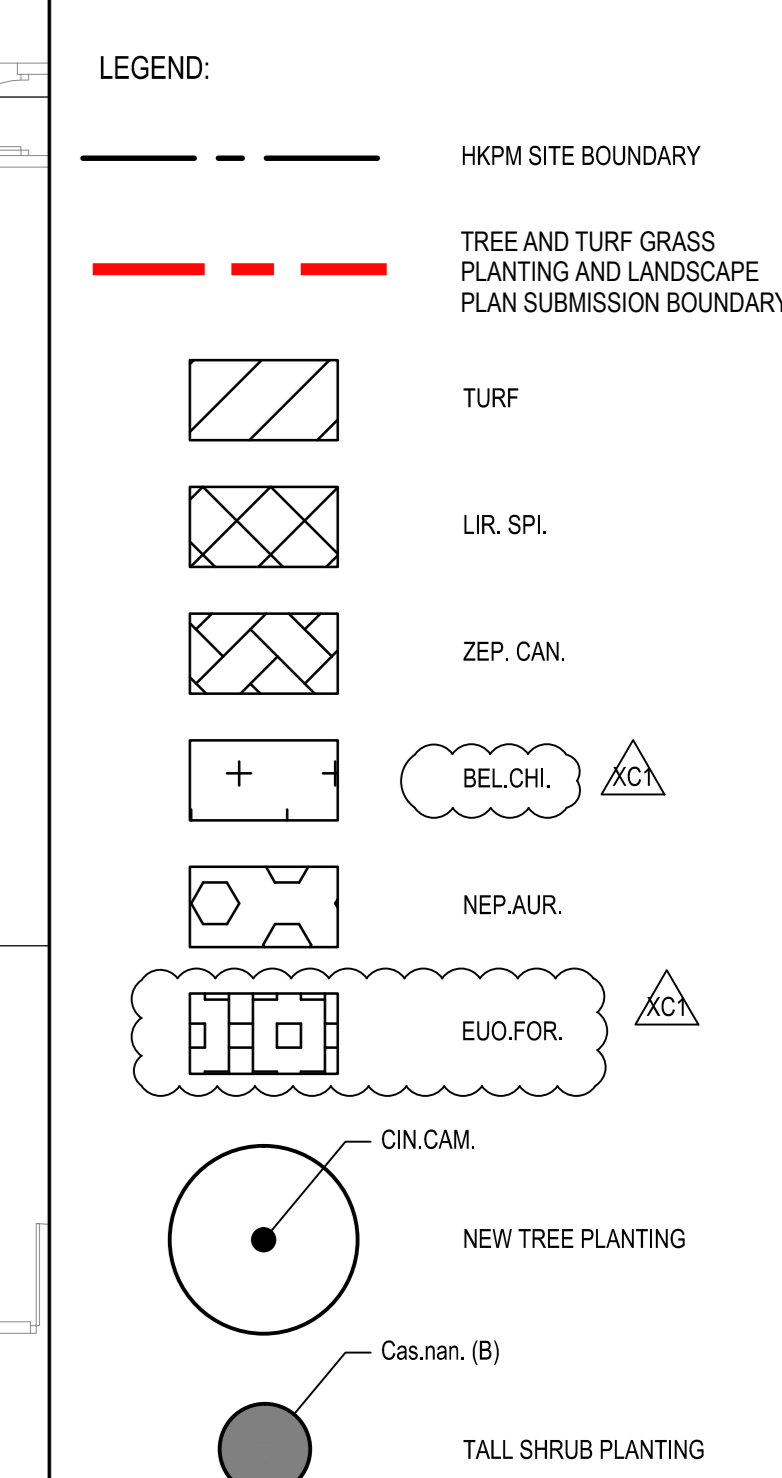
- PLANTING AREA
- GRASS PAVING

HONG KONG PALACE MUSEUM  
TREE AND TURF GRASS PLANTING AND LANDSCAPE PLAN

HONG KONG PALACE MUSEUM 4/F LANDSCAPE PLAN



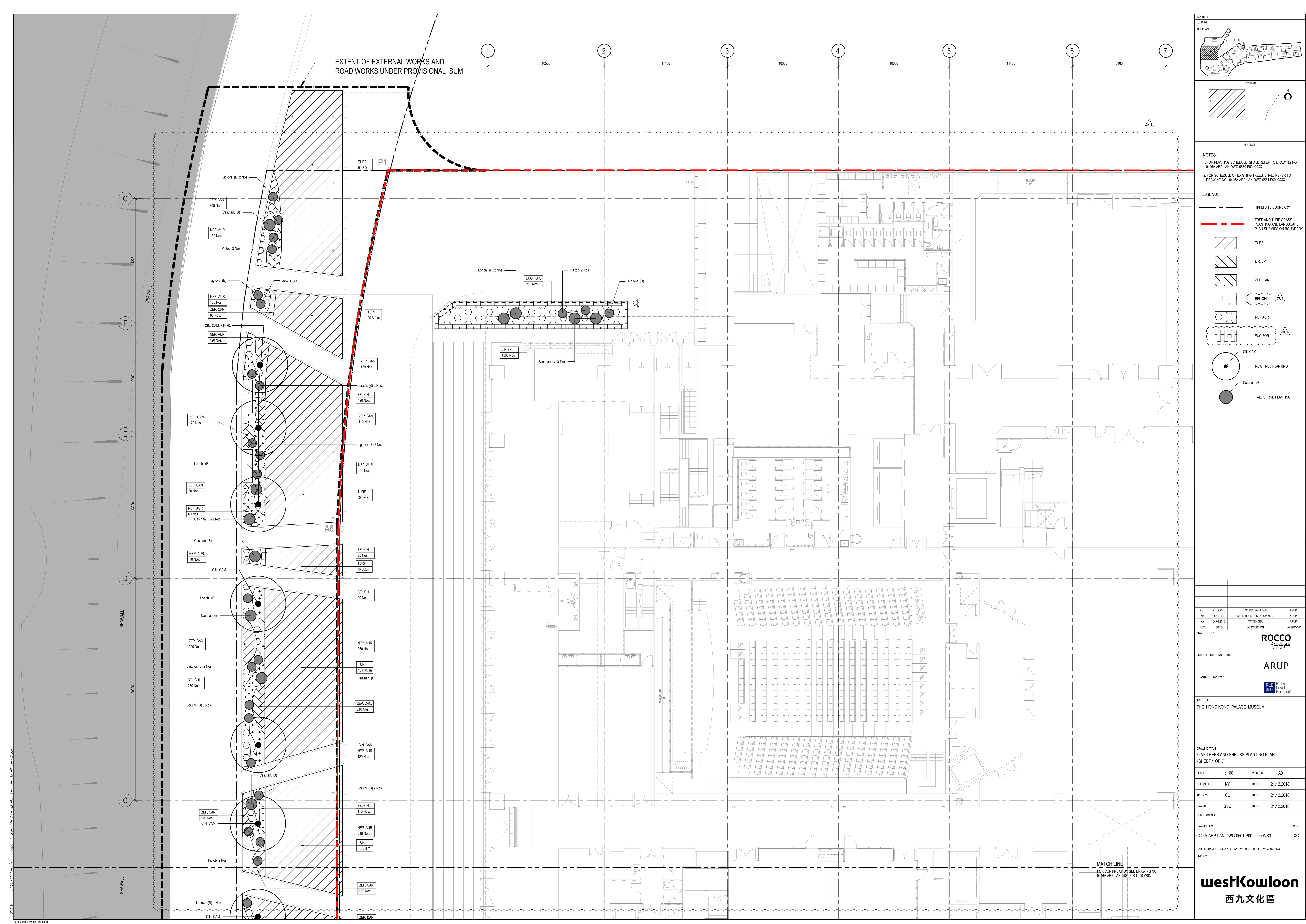




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QUANTITY SURVEYOR	

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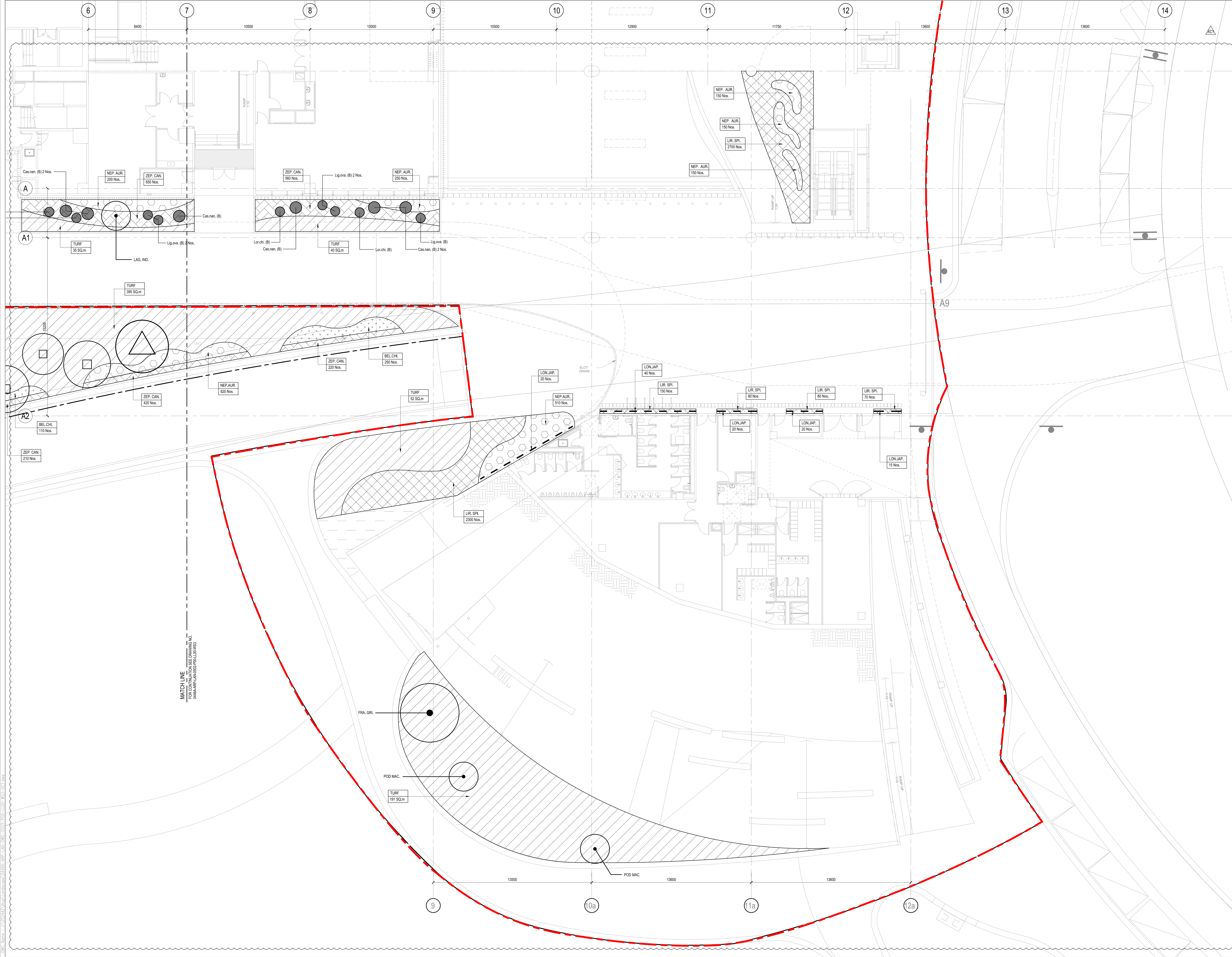
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NOTES:

1. FOR PLANTING SCHEDULE, SHALL REFER TO DRAWING NO. 0446A-APP-LAN-DWG-0503-P00-XXXX.

2. FOR SCHEDULE OF EXISTING TREES, SHALL REFER TO DRAWING NO. 0446A-APP-LAN-DWG-0501-P00-XXXX.

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HKPM SITE BOUNDARY

TREE AND TURF GRASS PLANTING AND LANDSCAPE PLAN SUBMISSION BOUNDARY

TURF

LIR. SPL.

ZEP. CAN.

BEL. CHI.

NEP. AUR.

DIE. BIC.

THR. GRA.

LON. JAP.

CIN. CAM.

NEW TREE PLANTING

Cas. nan. (B)

TALL SHRUB PLANTING

RETAINED TREES

TRANSPLANTED TREES

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MA	04.09.2018	MC TENDER	ARUP
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JOB TITLE

THE HONG KONG PALACE MUSEUM

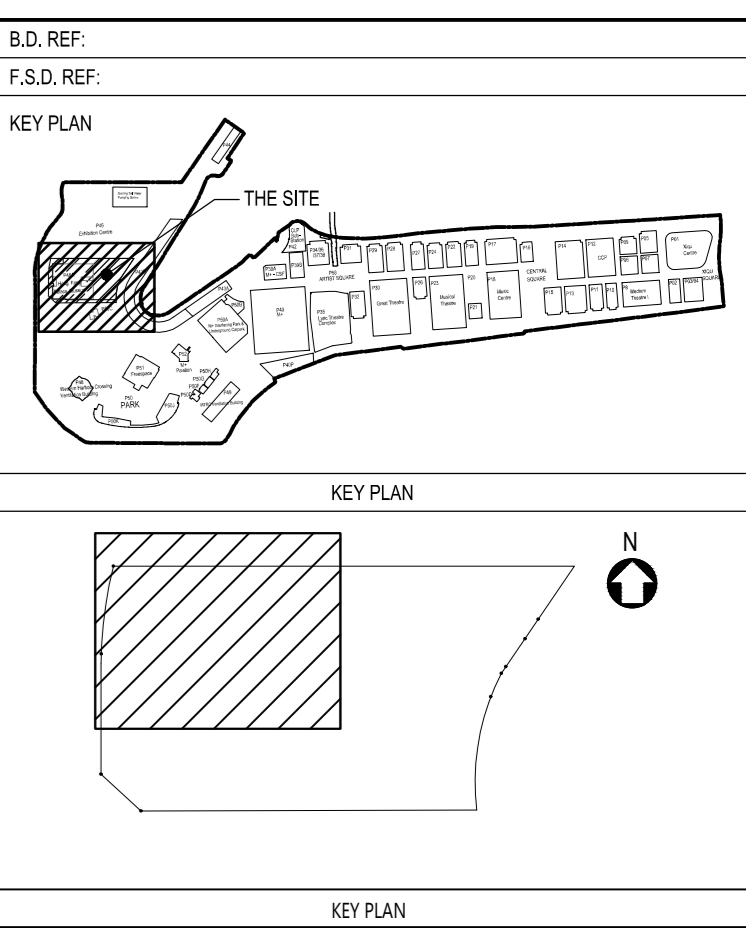
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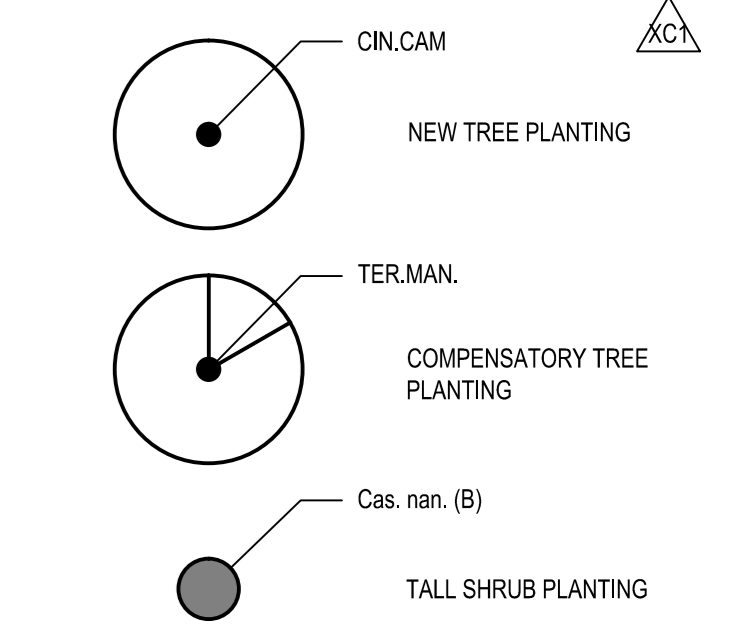
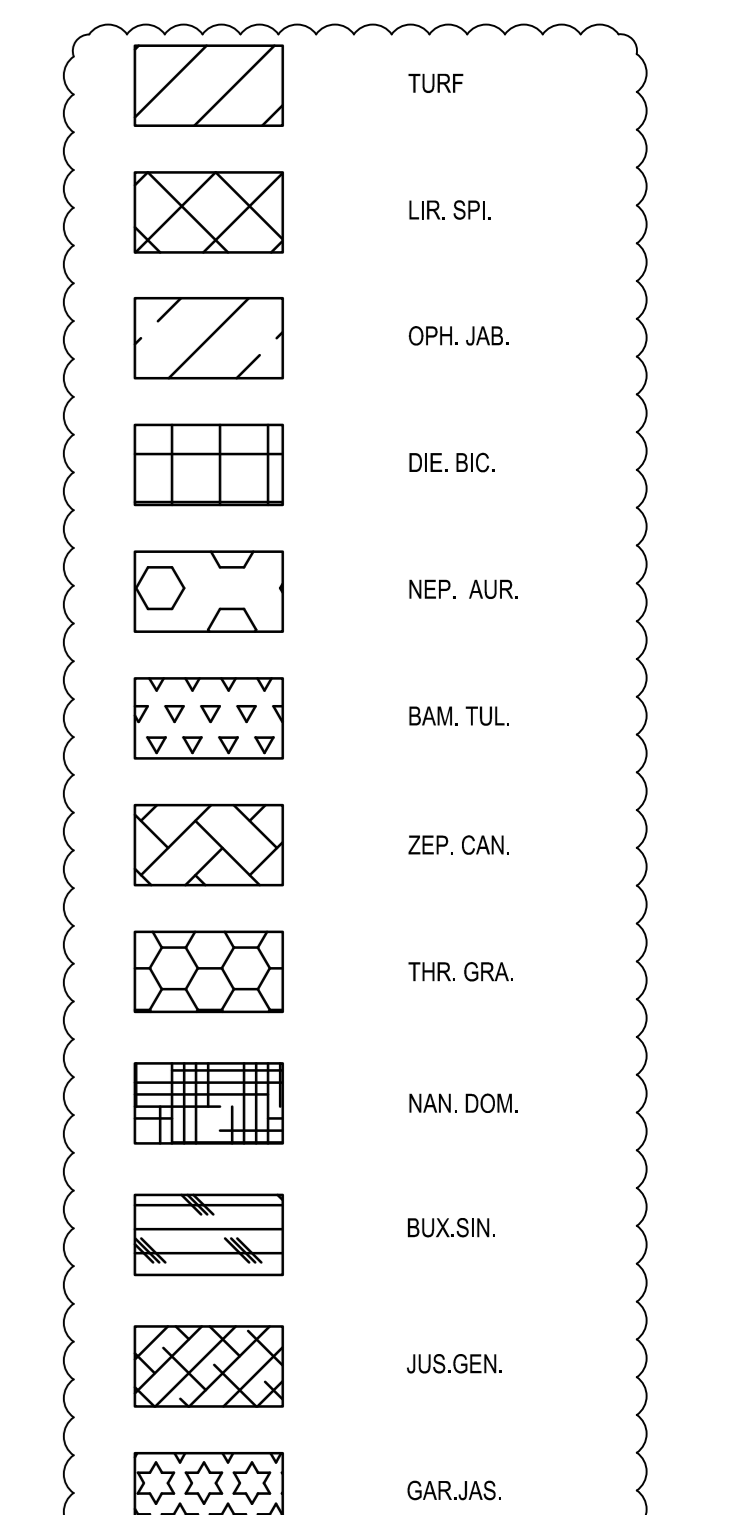
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LEGEND:

— — — — — HKPM SITE BOUNDARY

— — — — — TREE AND TURF GRASS  
PLANTING AND LANDSCAPE  
PLAN SUBMISSION BOUNDARY



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XA	04.09.2018	MC TENDER	ARUP
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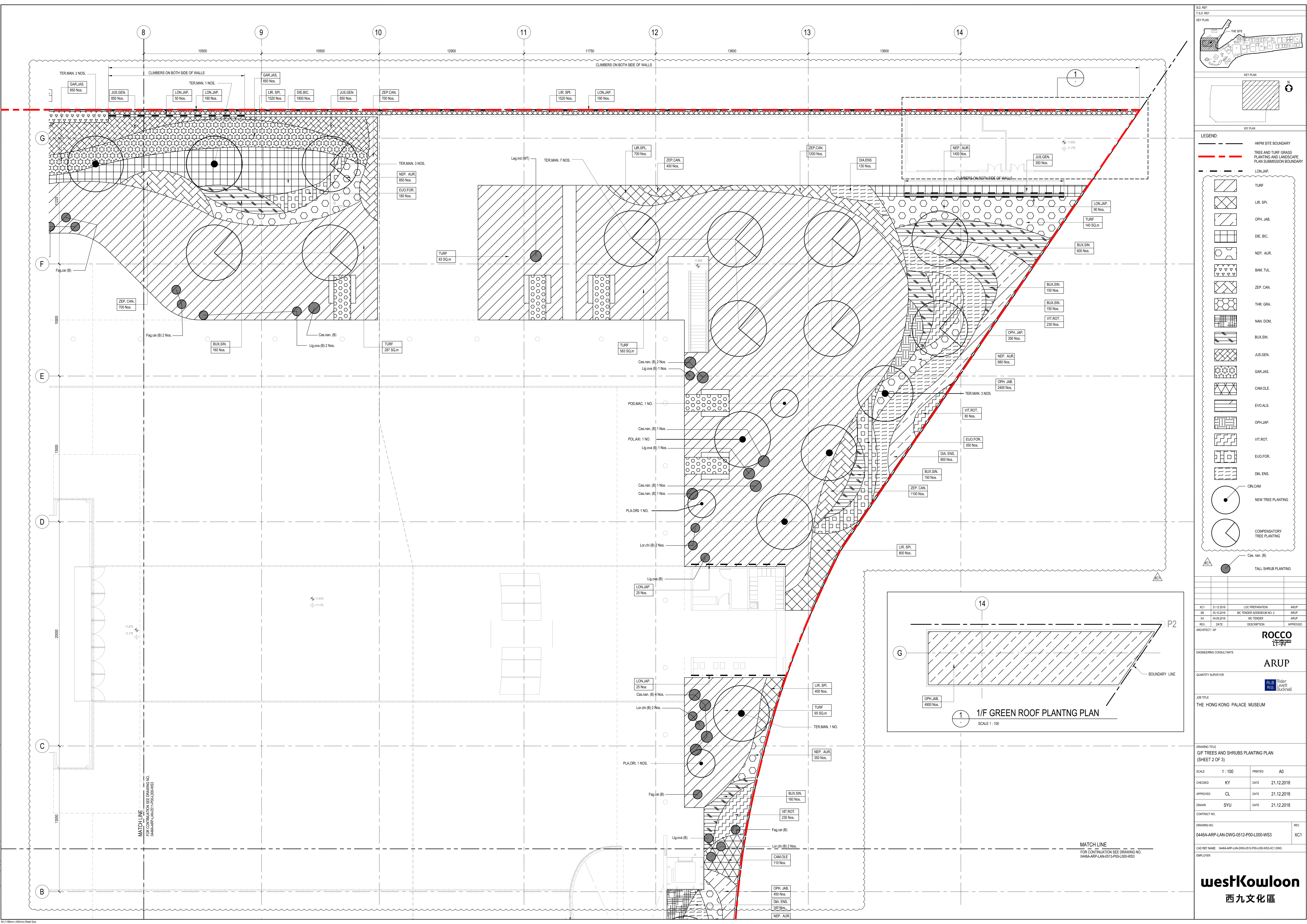
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HKPM SITE BOUNDARY

TREE AND TURF GRASS  
PLANTING AND LANDSCAPE  
PLAN SUBMISSION BOUNDARY

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ZEP. CAN.

THR. GRA.

NAN. DOM.

BUX.SIN.

JUS.GEN.

GAR.JAS.

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EVO.ALS.

OPH.JAP.

VIT.ROT.

EVO.FOR.

DIA.ENS.

CIN.CAM.

NEW TREE PLANTING

COMPENSATORY  
TREE PLANTING

Cas.nan.(B)

TALL SHRUB PLANTING

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G/F TREES AND SHRUBS PLANTING PLAN  
(SHEET 2 OF 3)

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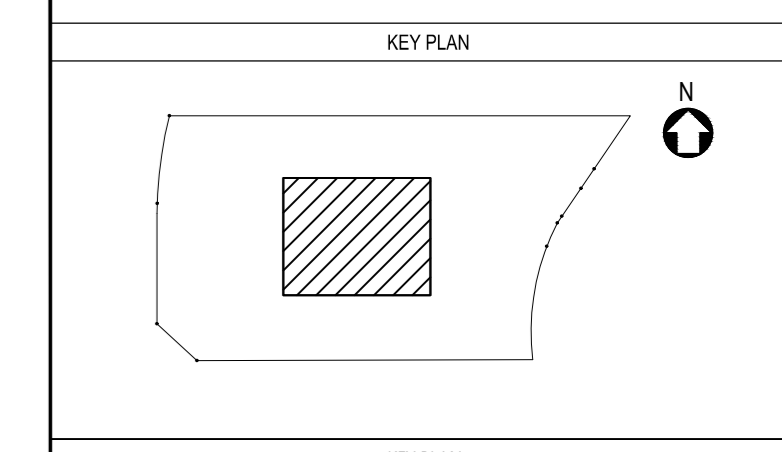
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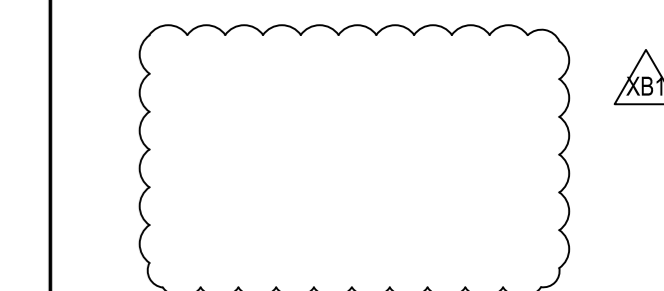
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**RLB** Rider  
利比 Levett  
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4/F TREES AND SHRUBS PLANTING PLAN

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A3 (1189mm x 841mm) Sheet Size

XC1

LG/F SHRUBS AND GROUND COVER PLANTING SCHEDULE

Abb	Scientific Name	Chinese Name	Native / Exotic	Size (Height x Spread mm)	Specification	Spacing (mm)	Remarks	QTY.
BEL.CHIL	Belamcanda chinensis	射干	Exotic	400(H) x 300 (S)	ASD GS 25.34 (a)	200	-	2000
LIR.SPI	Liriope spicata	山麥冬	Native	200(H) x 150 (S)	ASD GS 25.34 (a)	150	-	6880
NEP.AUR	Nephrolepis auriculata	腎蕨	Native	300(H) x 200 (S)	ASD GS 25.34 (a)	200	-	6160
PIT.tob.	Pittosporum tobira	海桐	Exotic	500(H) x 400 (S)	ASD GS 25.34 (b)	400	Ball shaped	10
THR.GRA.	Thyalllis gracilis	金英	Exotic	400(H) x 300 (S)	ASD GS 25.34 (b)	300	-	280
ZEP.CAN.	Zephyranthes candida	蔥蓮	Exotic	200(H) x 200 (S)	ASD GS 25.34 (a)	150	-	15290
EUD.FOR	Euonymus fortu	扶芳藤	Native	300(H) x 250 (S)	ASD GS 25.34 (a)	200	-	415
VIT.ROT	Vitex rotundifolia	羅漢藤荊	Native	300(H) x 250 (S)	ASD GS 25.34 (a)	200	-	220
Cas.nan.(B)	Casuarina nana	千頭木麻蕨	Exotic	1000(H) x 1000 (S)	ASD GS 25.34 (c)	-	Ball shaped	24
Lig.ova.(B)	Ligustrum ovalifolium 'Aureum'	斑葉女貞	Exotic	600(H) x 600 (S)	ASD GS 25.34 (c)	-	Ball shaped	26
Lor.chi.(B)	Loropetalum chinense f. rubrum	紅花檵木	Exotic	800(H) x 800 (S)	ASD GS 25.34 (c)	-	Ball shaped	24

LG/F CLIMBER PLANTING SCHEDULE

Abb	Scientific Name	Chinese Name	Native / Exotic	Size (Length mm)	Specification	Spacing (mm)	Remarks	QTY.
LON.JAP.	Lonicera japonica	忍冬	Native	600(L)	ASD GS 25.34 (d)	400	-	145

LG/F TURF PLANTING SCHEDULE

Abb	Scientific Name	Chinese Name	Native / Exotic	Specification	Specification	Spacing (mm)	Remarks	Area
TURF	Zoysia matrella	溝葉結縷草	Native	ASD GS 25.46 (c)	ASD GS 25.46 (c)	-	-	1780

G/F SHRUBS AND GROUND COVER PLANTING SCHEDULE

Abb	Scientific Name	Chinese Name	Native / Exotic	Size (Height x Spread mm)	Specification	Spacing (mm)	Remarks	QTY.
DIA.ENS.	Dianella ensifolia	山菅蘭	Native	400(H) x 300 (S)	ASD GS 25.34 (a)	200	-	1070
DIE.BIC.	Dietes bicolor	雙色野鸞尾	Exotic	500(H) x 300 (S)	ASD GS 25.34 (a)	300	-	1600
LIR.SPI.	Liriope spicata	山麥冬	Native	200(H) x 150 (S)	ASD GS 25.34 (a)	150	-	1500
OPH.JAB.	Ophiopogon japonicus	花葉沿階草	Exotic	200(H) x 200 (S)	ASD GS 25.34 (a)	200	-	2850
THR.GRA.	Thyalllis gracilis	金英	Exotic	400(H) x 300 (S)	ASD GS 25.34 (b)	300	-	280
ZEP.CAN.	Zephyranthes candida	蔥蓮	Exotic	200(H) x 200 (S)	ASD GS 25.34 (a)	150	-	4100
NAN.DOM	Nandina domestica	南天竺	Exotic	600(H) x 400 (S)	ASD GS 25.34 (c)	300	-	400
Lag.ind.(MT)	Lagerstroemia indica	紫薇(多幹)	Exotic	2000(H) x 1500(S)	ASD GS 25.34 (c)	-	Multi-shoots	1
Fag.cei.(B)	Fagraea cellantica	灰羽(球型)	Exotic	1000(H) x 1000 (S)	ASD GS 25.34 (c)	-	Ball shaped	5
Lor.chi.(B)	Loropetalum chinense f. rubrum	紅花檵木(球型)	Exotic	800(H) x 800 (S)	ASD GS 25.34 (c)	-	Ball shaped	11
Cas.nan.(B)	Casuarina nana	千頭木麻蕨(球型)	Exotic	1000(H) x 1000 (S)	ASD GS 25.34 (c)	-	Ball shaped	11
Lig.ova.(B)	Ligustrum ovalifolium 'Aureum'	斑葉女貞(球型)	Exotic	600(H) x 600 (S)	ASD GS 25.34 (c)	-	Ball shaped	13
BUX.SIN.	Buxus sinica	黃楊	Native	300(H) x 300 (S)	ASD GS 25.34 (b)	300	-	1700
CAM.OLE	Camellia oleifera	油茶	Native	500(H) x 400 (S)	ASD GS 25.34 (b)	400	-	110
EVO.ALS	Evolvulus alsinoides	土丁桂	Native	100(H) x 150 (S)	ASD GS 25.34 (a)	150	-	1100
GAR.JAS.	Gardenia jasminoides	梔子	Native	500(H) x 400 (S)	ASD GS 25.34 (b)	400	-	850
JUS.GEN	Justicia gendarussa	小藍藤	Native	500(H) x 400 (S)	ASD GS 25.34 (b)	400	-	1200
OPH.JAP.	Ophiopogon japonicus	麥冬	Native	200(H) x 150 (S)	ASD GS 25.34 (a)	150	-	350
EUD.FOR.	Euonymus fortunei	扶芳藤	Native	300 (H)X 250(S)	ASD GS 25.34 (a)	200	-	530
VIT.ROT	Vitex rotundifolia	羅漢藤荊	Native	300 (H)X 250(S)	ASD GS 25.34 (a)	200	-	770
NEP.AUR	Nephrolepis auriculata	腎蕨	Native	300(H) x 200 (S)	ASD GS 25.34 (a)	200	-	3960

G/F CLIMBER PLANTING SCHEDULE

Abb	Scientific Name	Chinese Name	Native / Exotic	Size (Length mm)	Specification	Spacing (mm)	Remarks	QTY.
LON.JAP.	Lonicera japonica	忍冬	Native	600(L)	ASD GS 25.34 (d)	400	-	240

G/F TURF PLANTING SCHEDULE

Abb	Scientific Name	Chinese Name	Native / Exotic	Specification	Specification	Spacing (mm)	Remarks	QTY.
TURF.	Zoysia matrella	溝葉結縷草	Native	ASD GS 25.46 (c)	ASD GS 25.46 (c)	-	-	2200

1/F GREEN ROOF PLANTING SCHEDULE

Abb	Scientific Name	Chinese Name	Native / Exotic	Size (Length mm)	Specification	Spacing (mm)	Remarks	QTY.
OPH.JAP.	Ophiopogon japonicus	麥冬	Native	200(H) x 150 (S)	ASD GS 25.34 (a)	150	-	5200

4/F SHRUBS AND GROUND COVER PLANTING SCHEDULE

Abb	Scientific Name	Chinese Name	Native / Exotic	Size (Height x Spread mm)	Specification	Spacing (mm)	Remarks	QTY.
LIR.SPI.	Liriope spicata	山麥冬	Native	200(H) x 150 (S)	ASD GS 25.34 (a)	150	-	330
NEP.AUR.	Nephrolepis auriculata	腎蕨	Native	300(H) x 200 (S)	ASD GS 25.34 (a)	200	-	610

NOTE:

ALL PLANT MATERIALS SHALL MEET THE SPECIFICATION AND THE SIZE AS STATED ON THE PLANT SCHEDULES AT TIME OF DELIVERY TO THE SITE. SIZES WHERE SPECIFIED ON THE PLANT SCHEDULES SHALL TAKE PRECEDENCE OVER SIZES AS STATED IN THE GS.

LG/F TREE PLANTING SCHEDULE

Abb	Scientific Name	Chinese Name	Native / Exotic	Size (Height x Spread mm)	Spacing (mm)	Remarks	QTY.
CIN.CAM.	Cinnamomum camphora	樟	Native	5000(H) x 3000(S), 100mm DBH	6000	-	8
POD.MAC.	Podocarpus macrophyllus	羅漢松	Native	3000(H) x 1500(S), 50mm DBH	4000	Natural form	9
MEL.AZE.	Melia azedarach	楝	Exotic	5000(H) x 3000(S), 100mm DBH	-	-	1
LAG.IND.	Lagerstroemia indica	紫薇	Exotic	3000(H) x 1500(S), 50mm DBH	3000	-	1
PLA.ORI.	Platycladus orientalis	側柏	Exotic	2000(H) x 1500(S)	3000	-	2
FRA.GRI.	Fraxinus griffithii	光臘樹	Native	4000(H) x 2000(S), 75mm DBH	5000	-	1

G/F TREE PLANTING SCHEDULE

Abb	Scientific Name	Chinese Name	Native / Exotic	Size (Height x Spread mm)	Spacing (mm)	Remarks	QTY.
LAG.IND.	Lagerstroemia indica	紫薇	Exotic	3000(H) x 1500(S), 50mm DBH	3000	-	2
PLA.ORI.	Platycladus orientalis	側柏	Exotic	2000(H) x 1500(S)	3000	-	2
POD.MAC.	Podocarpus macrophyllus	羅漢松	Native	3000(H) x 1500(S), 50mm DBH	3000	Natural form	1
POL.AXI.	Polyspora axillaris	大頭茶	Native	3000(H) x 1500(S), 80mm Base Dia.	3000	-	2
SAP.SEB.	Sapium sebiferum	烏柏	Native	4000(H) x 2000(S), 75mm DBH	5000	-	2
TER.MAN.	Terminalia mantaly	小葉欖仁	Exotic	6000(H) x 4000(S), 100mm DBH	8000	At least 60% live crown ratio	22
FRA.GRI.	Fraxinus griffithii	光臘樹	Native	4000(H) x 2000(S), 75mm DBH	5000	-	1
YUL.SOU.	Yulania x soulangeana	二喬木蘭	Exotic	3000(H) x 1500(S), 50mm DBH	5000	-	1
VIB.ODO.	Viburnum odoratissimum	珊瑚樹	Native	4000(H) x 2000(S), 75mm DBH	5000	-	2

G/F BAMBOO PLANTING SCHEDULE

Abb	Scientific Name	Chinese Name	Native / Exotic	Size (Height mm)	Spacing (mm)	Remarks	QTY.
BAM.TUL.	Bambusa tuldoides	黃稈竹	Native	4000(H)	300	Single-stem	280

4/F BAMBOO PLANTING SCHEDULE

Abb	Scientific Name	Chinese Name	Native / Exotic	Size (Height mm)	Spacing (mm)	Remarks	QTY.
PHY.NIG.	Phyllostachys nigra	紫竹	Exotic	4000(H)	300	Single-stem	240

NOTE:

1. ALL PLANT MATERIALS SHALL MEET THE SPECIFICATION AND THE SIZE AS STATED ON THE PLANT SCHEDULES AT TIME OF DELIVERY TO THE SITE. SIZES WHERE SPECIFIED ON THE PLANT SCHEDULES SHALL TAKE PRECEDENCE OVER SIZES AS STATED IN THE GS.

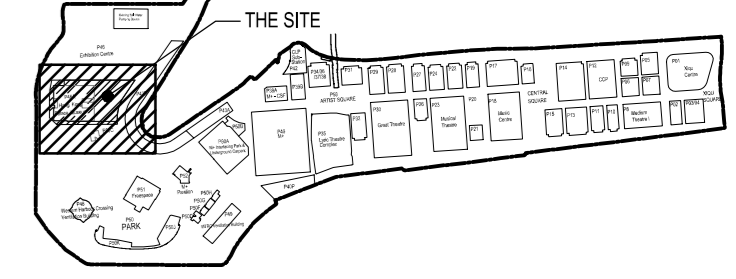
2. ALL TREES SHALL HAVE AT LEAST 60% LIVE CROWN RATIO UNLESS OTHERWISE DEEMED ACCEPTABLE BY THE CONTRACT ADMINISTRATOR.

3. FOR SCHEDULE OF RETAINED TREES AND TRANSPLANTED TREES, SHALL REFER TO DRAWING NO.0446A-ARP-LAN-DWG-0551-P00-L100-WS3.

B.D. REF:

F.S.D. REF:

KEY PLAN



KEY PLAN

XC1	21.12.2018	LOC PREPARATION	ARUP
XB	05.11.2018	MC TENDER ADDENDUM NO. 2	ARUP
XA	04.09.2018	MC TENDER	ARUP
REV.	DATE	DESCRIPTION	APPROVED

ARCHITECT / AP

ROCCO  
許李

ENGINEERING CONSULTANTS

ARUP

QUANTITY SURVEYOR

R.B.  
Rider  
Levett  
Bucknall

JOB TITLE

THE HONG KONG PALACE MUSEUM

DRAWING TITLE

TREES AND SHRUBS PLANTING SCHEDULE

SCALE	N.T.S.	PRINTED	A0
CHECKED	KY	DATE	21.12.2018
APPROVED	CL	DATE	21.12.2018
DRAWN	SYU	DATE	21.12.2018

CONTRACT NO.

DRAWING NO.

0446A-ARP-LAN-DWG-0530-P00-XXXX-WS3-XC1

REV.

XC1

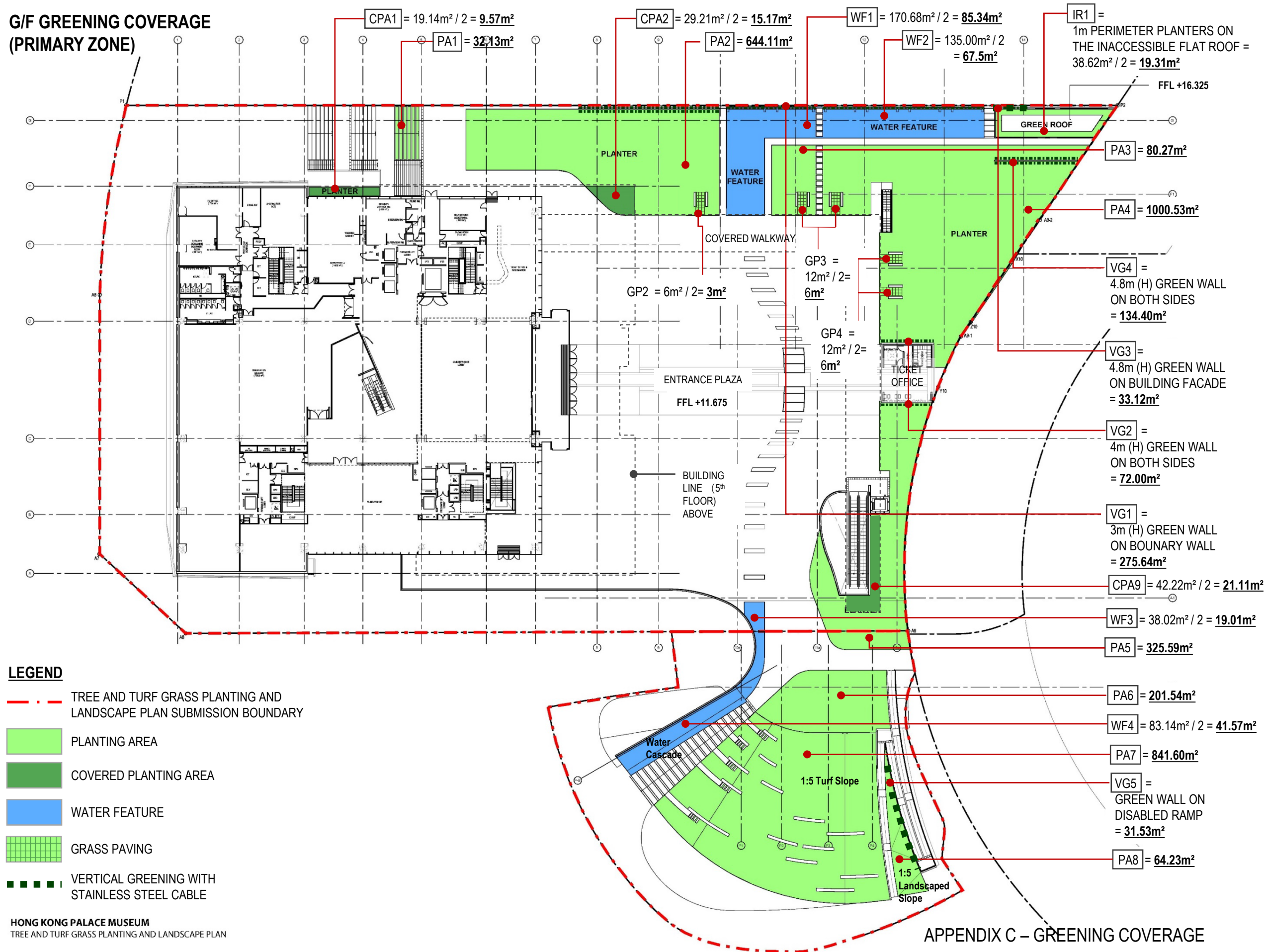
LAND REF NAME: 0446A-ARP-LAN-DWG-0530-P00-XXXX-WS3-XC1.DWG

EMPLOYER

westKowloon  
西九文化區



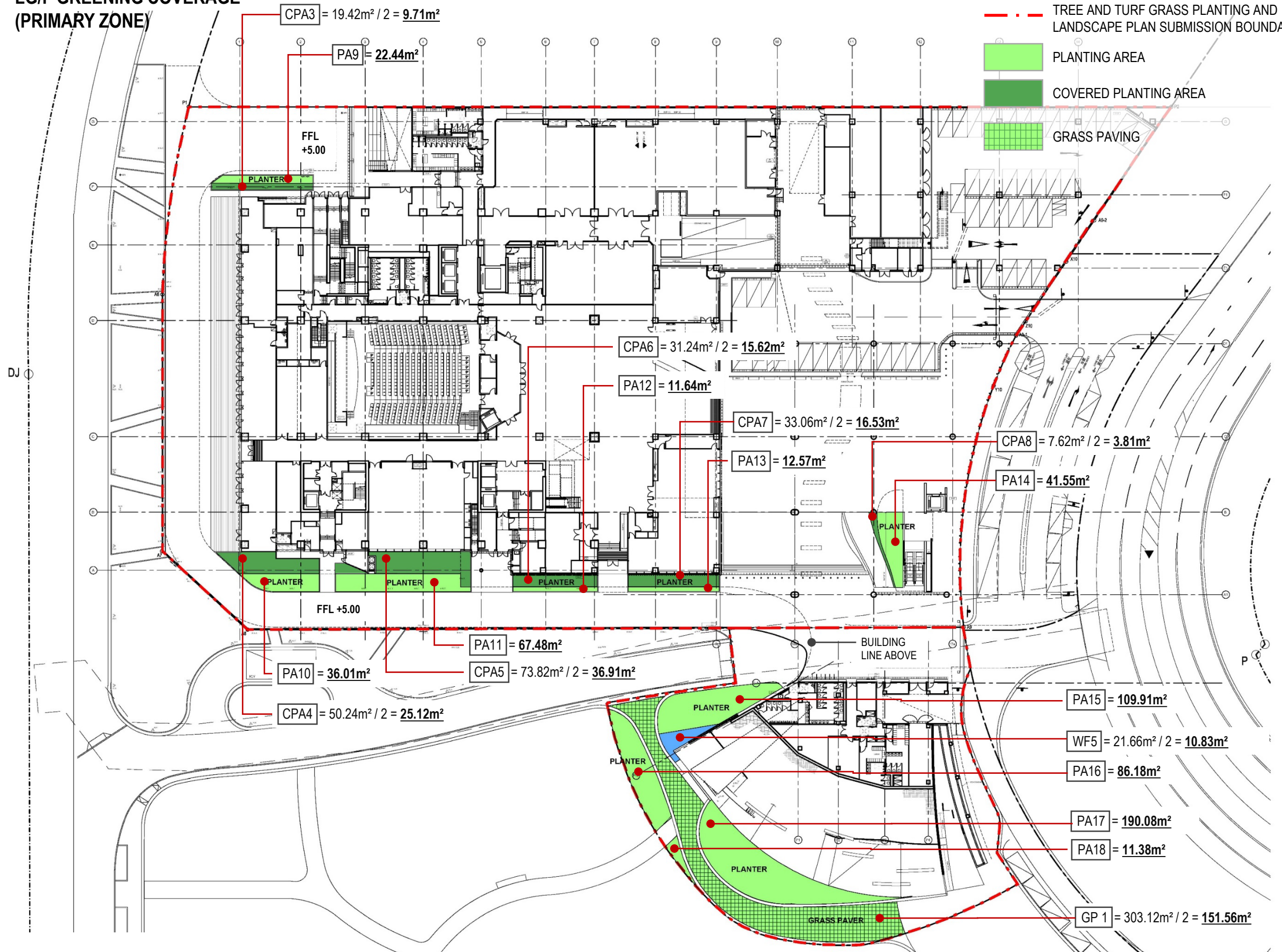
# G/F GREENING COVERAGE (PRIMARY ZONE)



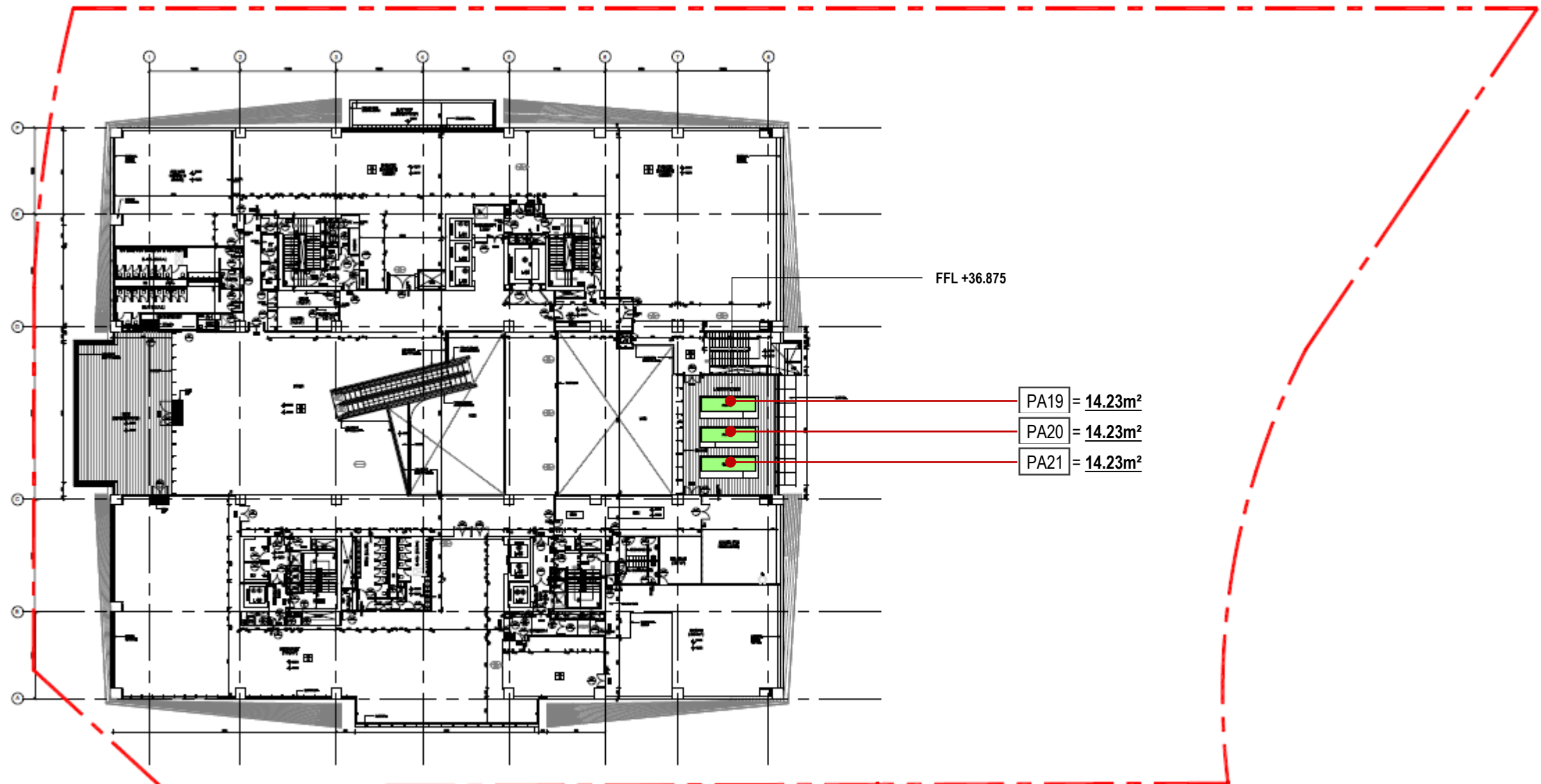
# LG/F GREENING COVERAGE (PRIMARY ZONE)

## LEGEND

- TREE AND TURF GRASS PLANTING AND LANDSCAPE PLAN SUBMISSION BOUNDARY
- PLANTING AREA
- COVERED PLANTING AREA
- GRASS PAVING



# 4/F GREENING COVERAGE (NON-PRIMARY ZONE)



## **LEGEND**

- . — TREE AND TURF GRASS PLANTING AND LANDSCAPE PLAN SUBMISSION BOUNDARY
- PLANTING AREA

GREENING COVERAGE SUMMARY

(A) REQUIRED GREENERY

(i)	<u>MIN. TOTAL SITE COVERAGE OF GREENERY</u>
	= 20% OF SITE AREA. ∴ SITE AREA = 16,033m²,
	∴ MIN. GREENERY COVERAGE REQUIRED = 16,033m² x 20% = <u>3,207m²</u>
(ii)	<u>MIN. SITE COVERAGE OF GREENERY AT PRIMARY ZONE</u>
	= 10% OF SITE AREA.
	MIN. GREENERY COVERAGE REQUIRED = 16,033m² x 10% = <u>1,603m²</u>

(B) GREENERY CALCULATION

(i)	<u>GREENERY CALCULATION AT PRIMARY ZONE</u>
	PA1 = 32.13m²      PA10 = 36.01m²
	PA2 = 644.11m²      PA11 = 67.48m²
	PA3 = 80.27m²      PA12 = 11.64m²
	PA4 = 1000.53m²      PA13 = 12.57m²
	PA5 = 325.59m²      PA14 = 41.55m²
	PA6 = 201.54m²      PA15 = 109.91m²
	PA7 = 841.60m²      PA16 = 86.18m²
	PA8 = 64.23m²      PA17 = 190.08m²
	PA9 = 22.44m²      PA18 = 11.38m²
	TOTAL = <u>3,779.24m²</u>
(ii)	<u>GREENERY CALCULATION AT NON-PRIMARY ZONE</u>
	PA19 = 14.23m²
	PA20 = 14.23m²
	PA21 = 14.23m²
	TOTAL = <u>42.69m²</u>

CPA1	= 19.14m² / 2 = <u>9.57m²</u>
CPA2	= 29.21m² / 2 = <u>15.17m²</u>
CPA3	= 8.72m² / 2 = <u>9.71m²</u>
CPA4	= 42.46m² / 2 = <u>25.12m²</u>
CPA5	= 76.24m² / 2 = <u>36.91m²</u>
CPA6	= 21.56m² / 2 = <u>15.62m²</u>
CPA7	= 21.56m² / 2 = <u>16.53m²</u>
CPA8	= 21.56m² / 2 = <u>3.81m²</u>
CPA9	= 42.22m² / 2 = <u>21.11m²</u>
WF1	= 170.68m² / 2 = <u>85.34m²</u>
WF2	= 135.00m² / 2 = <u>67.50m²</u>

(ii)	<u>OTHER GREENERY FEATURE AT PRIMARY ZONE</u>
WF3	= 12.64m² / 2 = <u>19.01m²</u>
WF4	= 12.64m² / 2 = <u>41.57m²</u>
WF5	= 12.64m² / 2 = <u>10.83m²</u>
IR1	= 38.62m² / 2 = <u>19.31m²</u>
GP1	= 303.12m² / 2 = <u>151.56m²</u>
GP2	= 6m² / 2 = <u>3m²</u>
GP3	= 12m² / 2 = <u>6m²</u>
GP4	= 12m² / 2 = <u>6m²</u>
VG1	= <u>275.64m²</u>
VG2	= <u>72.00m²</u>
VG3	= <u>33.12m²</u>
	TOTAL = <u>1110.36m²</u>

(C) GREENERY COVERAGE COMPLIANCE

(i)	<u>TOTAL SITE COVERAGE OF GREENERY AT PRIMARY ZONE</u>
	= 3,779.24m² + 1110.36m² = <u>4,889.60m² &gt; 1,622m²</u>
(ii)	<u>TOTAL SITE COVERAGE OF GREENERY</u>
	= 3,779.24m² + 42.69m² + 1110.36m² = <u>4,932.29m² &gt; 3,207m²</u>
(iii)	<u>TOTAL OTHER GREENERY FEATURE NOT EXCEEDING 30% OF REQ. GREENERY OF OVERALL PROVISION</u>
	= <u>1110.36m² &lt; 1479.69m²</u> (4,932.29m² x 30%)
(iv)	<u>PERCENTAGE OF GRASS COVERAGE</u>
	= TOTAL GRASS COVERAGE / TOTAL GREENERY COVERAGE x 100 % = 2512m² / 4,932.29m² x 100% = <u>50.93%</u>



## POST-PLANTING CARE PLAN

Operation	Description	Frequency	Notes
a. Replacement planting	Replacement of dead, dying plants, e.g. failure grass species.  Replanting and/or reseeding of annual herbaceous plants depending on rate of self-regeneration.	As directed by the Contract Administrator	Immediately following weeding operations. Preferably during planting season i.e. Mar-Sep.
b. Watering	Watering of planted areas as required	Daily operation except where rainfall > 20mm/day. Early morning and/or late afternoon	Duration of the irrigation system watering time to be reviewed periodically and any necessary adjustment made
c. Weeding	Removal of all non-specified plants for all planting areas	12 times per year – once every three weeks in growing season, once every five weeks at other times	The three weeks weeding cycle – adjusted to five weeks in the winter season (continuous cycle of weeding)
d. Noxious and invasive weeds	Remove species of noxious and invasive weeds, e.g. <i>Mikania micrantha</i> and <i>Leucaena leucocephala</i> , immediately when discovered	Daily check as part of other inspections – immediate treatment as necessary	Observe the guidelines and practice notes promulgated by AFCD on treatment of noxious weeds
e. Post-planting fertilizer	Application of fertilizer to all planting areas	Two applications with 100 to 300 days in first Spring / Autumn after completion of planting / grass laying	Application of fertilizer twice during the first year
f. Soil aeration	Forking over to a depth of 100mm for grass / shrubs & groundcover plants	First Spring / Autumn following completion of planting	Operation conducted concurrently with fertilizer application
g. Mulching	Topping up of mulch to specified depth	Top up twice during the establishment period. Timing dependent on completion of planting – first immediately after aeration + second immediately before end of Establishment Period	Observe GLTMS guidelines on keeping mulch away from trunk flare
h. Firming up	Firming of trees and shrubs to ensure plants are set upright and properly established in the ground	As directed by the Architect – immediately after strong winds / typhoons and as necessary	Review on a monthly basis, adjustments made as necessary
i. Staking and tying	Adjustment of stakes and tying materials for trees and palms to ensure that they are secure, but allow room for plant growth	Review on a monthly basis, adjustments made as necessary	-

## POST-PLANTING CARE PLAN

<b>j. Pruning of trees / palms</b>	Pruning of trees and palms to remove dead or damaged branches / fronds and to promote better canopy / crown shape.  (Formative pruning should be undertaken during plant preparation and immediately prior to planting)	According to species, as determined by the Architect.	Observe relevant guidelines and Proper Planting Practices promulgated by GLTMS of DEVB
<b>k. Pruning of shrubs and groundcovers</b>	Pruning of shrubs and groundcovers to encourage bushy growth, tidy up appearance, topiary as intended, and remove dead / diseased branches	Review on a monthly basis. Prune according to species and agreed design intent, as directed by the Architect	Pruning as necessary to maintain the agreed design height for shrubs (action trigger height down to pruned height for each species / location)
<b>l. Training and pruning climbers</b>	Train climbers to obtain the desired effect. Pruning of climbers to prevent uncontrolled spreading and strangling of other plants. Adjust climber ties and wires to give proper support to climbing plants	As directed by the Architect. Training and pruning according to agreed design intent. Monthly check ties and wires and adjust as necessary	-
<b>m. Lawn care</b>	Includes grass cutting, rolling, weeding and general lawn care operations	Review on a weekly basis. Cutting as required in accordance with grass height	Cut grass to a height of 50 mm when it reaches 100 mm high
<b>n. Top dressing for grass areas</b>	Top dress grass areas as required to smooth out minor depressions	Twice – timing to be agreed	-
<b>o. Plant division</b>	Remove selected plants to reduce overcrowding and replant elsewhere on site	As directed by the Architect, review on a monthly basis. (Preferably during planting season i.e. Mar-Sep)	-
<b>p. Plant thinning</b>	Remove selected plants to reduce overcrowding and dispose off-site	As directed by the Architect. Review on a monthly basis	-
<b>q. Infestation by rodents and RIFA etc.</b>	Check all planting areas for signs of infestation by rodents and RIFA etc. As part of the regular monthly inspection of the establishment works. Treatment by pest control measures.	Daily check as part of other inspections – immediately treatment as necessary	-
<b>r. Pest, disease, fungal growth and parasitic plants</b>	Check all plants for signs of pest, disease, fungal growth and parasitic plants as part of the regular monthly inspection of the establishment works. Treat pest, disease and fungal growth by applying suitable chemical or pruning as appropriate. Treat parasitic plants by physical removal.	Daily check as part of other inspections – immediately treatment as necessary	-

## POST-PLANTING CARE PLAN

<b>s. Protective fencing</b>	Check and repair protective fencing	As required	-
<b>t. Typhoon damage</b>	Reinstatement of all displaced trees and shrubs, treatment or replacement of damaged plants	As required	-
<b>u. Clearance of unwanted vegetation</b>	Carry out as part of site clearance and weeding. Remove all unwanted vegetation including undersized wild growth undesirable to be kept at the location.	As directed by the Architect	-
<b>v. Litter collection</b>	Collection of litter and debris from site	Daily operation across site	-
<b>w. Erosion control</b>	Application of erosion control measures as required preventing / controlling soil erosions. Repair of eroded areas.	As required	On-going exercise
<b>x. Removal of stakes &amp; protective fencing</b>	Removal of stakes, guys, ties and protective fencing at the end of the Establishment Period	Once	Part of the Final Inspection
<b>y. Tree Risk Assessment (TRA)</b>	TRA and associated remedial measures to be carried out according to the requirements as stipulated in "Guidelines for Tree Risk Assessment and Management Arrangement" promulgated by DEVB.	At least once a year before onset of wet season (i.e. 30 April) and when necessary (e.g. act on complaint)	On-going exercise

### NOTE:

1. The Contractor shall provide an ISA Certified Arborist to advise on, monitor and ensure proper implementation of the landscape plans, including but not limited to planting of trees, shrubs, turf etc. and the maintenance / establishment / post planting care operations.
2. The Contractor shall provide an ISA Certified Arborist to carry out tree risk assessment and carry out / supervise any mitigation measures according to the requirements as stipulated in "Guidelines for Tree Risk Assessment and Management Arrangement" promulgated by DEVB

SOFT LANDSCAPE MAINTENANCE SCHEDULE

Operation	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Replacement planting	Mar-Sept (as required)												
Watering	daily												
Weeding	monthly												
Removal of noxious and invasive weeds	daily												
Apply post-planting fertilizer	Feb/Aug												
Soil aeration	Feb/Aug												
Top up mulching	2 times per year												
Firming up of tilted plants	(as required)												
Adjust staking and tying of trees / palms	monthly												
Pruning of trees / palms	(as required)												
Pruning of shrubs and groundcovers	(as required)												
Training and pruning of climbers, adjust climber ties and wires	(as required)												
Lawn care	(as required)												
Top dressing for grass areas	2 times per year												
Plant division	Mar-Sept (as required)												
Plant thinning	(as required)												
Control infestation by rodents and RIFA etc.	(as required)												
Control pest, disease, fungal growth and parasitic plants	(as required)												
Check and repair protective fencing	(as required)												
Repair typhoon damage	(as required)												
Clearance of unwanted vegetation	(as required)												
Removing litter, stone, rubbish and the like	daily												
Erosion control	(as required)												
Tree Risk Assessment	April (and other times as required)												

- NOTE:
1. The Contractor shall carry out his own inspection of the soft landscape works at a daily basis and ensure any problems related to soft landscape works are dealt with promptly as required.
  2. The Contract Administrator and the Contractor shall carry out joint inspection at a monthly basis to monitor the landscape planting establishment and recommend any horticultural operations as required to enhance the health and/or appearance of the landscape planting.

**APPENDIX E**

Tree Felling Application Approval and Undertaking



地政總署  
九龍西區地政處  
DISTRICT LANDS OFFICE,  
KOWLOON WEST  
LANDS DEPARTMENT

電話 Tel: 3542 5903  
圖文傳真 Fax: 2771 2985  
電郵地址 Email: spskw@landsd.gov.hk  
本署檔號 Our Ref.: (77) in DLOKW KX 2844(T) Pt. 9  
來函檔號 Your Ref. 252442-00/02-02/PT/YPC/BL-19-170

我們矢志努力不懈，提供盡善盡美的土地行政服務。  
We strive to achieve excellence in land administration.

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KOWLOON GOVERNMENT OFFICES,  
405 NATHAN ROAD, KOWLOON.

網址 Web Site : [www.info.gov.hk/landsd](http://www.info.gov.hk/landsd)

來函請註明本署檔號

Please quote our reference in your reply

22 May 2019

By Fax (No.: 28656493) ONLY

West Kowloon Cultural District Authority  
c/o ARUP  
Level 5 Festival Walk  
80 Tat Chee Avenue  
Kowloon Tong, Kowloon,  
Hong Kong

(Attn: Mr. Paul Tsang)

Dear Sir,

The West Kowloon Cultural District  
Tree Removal Application (Revised Amendment Submission) for  
Hong Kong Palace Museum at Exhibition Hub Development Area  
Short Term Tenancy No. KX2844 ("the Subject Short Term Tenancy")

I refer to the letter of 12 April 2019 from your Landscape Consultant, ARUP, with a Supplementary Tree Removal Application for Advanced Works of Hong Kong Palace Museum ("HKPM") at Exhibition Hub Development Area ("EHDA"), WKCD dated 9 April 2019 regarding the captioned submission.

Pending the conclusion of the proposed private treaty grant of the West Kowloon Cultural District ("WKCD") site (intended to be known as Kowloon Inland Lot No. 11260) ("the WKCD site Land Grant") to the West Kowloon Cultural District Authority ("WKCD Authority"), possession of the WKCD site has been granted to the WKCD Authority under the Subject Short Term Tenancy since 3 January 2012.

Consent is hereby given to:

- (a) felling of 2 trees, T550 & T551, as shown on Drawing No. 0446A-ARP-LAN-DWG-1001-P00-L000-WS1 (Rev XD) attached as Appendix A to the above submission,

/..(b)

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- (b) transplanting of 3 trees, T003, T004 & T010, as shown on Drawing No. 0446A-ARP-LAN-DWG-1003-P00-L000-WS1 (Rev XB) attached as Appendix D to the above submission

pursuant to Special Condition No. 13 of the tenancy dated 23 December 2011 as supplemented by the Supplementary Agreement dated 3 June 2013 for Subject Short Term Tenancy subject to the following conditions:-

- (i) WKCDA's due execution of the attached Undertaking and return it to me within one month from the date of this letter. Please note that WKCDA shall continue to be bound to observe and perform WKCDA's obligation under the Undertaking after the termination of the Subject Short Term Tenancy and completion of the WKCD site Land Grant to the WKCDA.
- (ii) Implementation of the compensatory planting proposal to replant 10 trees as shown on Drawing No. 0446A-ARP-LAN-DWG-1002-P00-L000-WS1 (Rev XD) and in accordance with the Planting Scheme as shown on the said drawing in all respect to the satisfaction of the Government on or before 30 June 2021.
- (iii) Transplanting of the 3 trees, T003, T004 & T010, to the locations as shown on Drawing No. 0446A-ARP-LAN-DWG-1003-P00-L000-WS1 (Rev XB) in all respect to the satisfaction of the Government on or before 30 June 2021.
- (iv) This letter and the WKCDA's agreement thereto shall continue to be effective and WKCDA shall continue to be bound by and subject to the terms and conditions of this letter after the termination of the Subject Short Term Tenancy and completion of the WKCD site Land Grant to WKCDA.

Please also note LAO Practice Note No. 7/2007 & 7/2007A and upon completion of the proposed compensatory planting proposal to submit relevant report with photos as required under the said Practice Note for compliance checking. Besides please mark the latest tenancy boundary of the Subject Short Term Tenancy and the tentative boundary of the WKCD site Land Grant on your drawings in future submissions.

Yours faithfully,



(Jim LAM)

for District Lands Officer/Kowloon West

Encl

c.c. (w/e)

WKCDA	(Attn: Mr. Jason TEO)	Fax: 2895 0016
HAB	(Attn: Ms. Karen WONG)	Fax: 3102 5997
AD/S1	(Attn: Ms. Kelly KWAN)	Fax: 3151 7870

## UNDERTAKING

IN CONSIDERATION of the approval given by the District Lands Officer, Kowloon West (hereinafter referred to as "the District Lands Officer") for the felling of 2 trees and transplanting of 3 trees all as shown on the Tree Survey Plan (Drawing No. 0446A-ARP-LAN-DWG-1001-P00-L000-WS1 (Rev XD)) enclosed in the Supplementary Tree Removal Application for Advanced Works of Hong Kong Palace Museum (HKPM) at Exhibition Hub Development Area (EHDA), WKCD (dated 9 April 2019) ("the Application") submitted by ARUP via its letter dated 12 April 2019, WE, West Kowloon Cultural District Authority, hereby agree and undertake to implement in all respects to the satisfaction of the District Lands Officer replanting 10 nos. of compensatory trees and transplanting the 3 trees in accordance with the proposal set out in the Application and shown on the Compensatory and Transplanting Tree Plan (Drawing Nos. 0446A-ARP-LAN-DWG-1002-P00-L000-WS1 (Rev XD) and 0446A-ARP-LAN-DWG-1003-P00-L000-WS1 (Rev XB) respectively) and / or such other proposals as shall be approved by the District Lands Officer on or before 30 June 2021. In the event of the non-fulfilment of this obligation, the District Lands Officer may carry out the necessary works on our behalf at our expense and we shall pay to the Government on demand a sum equal to the cost thereof, such sum which shall include supervisory and overhead charges, to be determined by the District Lands Officer whose determination shall be final and shall be binding upon us. For the avoidance of doubt, we hereby declare and confirm that our agreement under this Undertaking shall continue to be effective and we shall continue to be bound to observe and perform our obligations under this Undertaking after the termination of the Short Term Tenancy No. KX 2844 and the completion of the proposed private treaty grant of the West Kowloon Cultural District site (intended to be known as Kowloon Inland Lot No. 11260) to us.

IN WITNESS whereof we have caused the Corporate Seal of the West Kowloon Cultural District Authority affixed hereunto

the                      day of                      , 2019.

SEALED with the Corporate Seal of )  
West Kowloon Cultural District Authority )  
)  
)  
and authenticated by )  
)  
)

## UNDERTAKING

IN CONSIDERATION of the approval given by the District Lands Officer, Kowloon West (hereinafter referred to as "the District Lands Officer") for the felling of 2 trees and transplanting of 3 trees all as shown on the Tree Survey Plan (Drawing No. 0446A-ARP-LAN-DWG-1001-P00-L000-WS1 (Rev XD)) enclosed in the Supplementary Tree Removal Application for Advanced Works of Hong Kong Palace Museum (HKPM) at Exhibition Hub Development Area (EHDA), WKCD (dated 9 April 2019) ("the Application") submitted by ARUP via its letter dated 12 April 2019, WE, West Kowloon Cultural District Authority, hereby agree and undertake to implement in all respects to the satisfaction of the District Lands Officer replanting 10 nos. of compensatory trees and transplanting the 3 trees in accordance with the proposal set out in the Application and shown on the Compensatory and Transplanting Tree Plan (Drawing Nos. 0446A-ARP-LAN-DWG-1002-P00-L000-WS1 (Rev XD) and 0446A-ARP-LAN-DWG-1003-P00-L000-WS1 (Rev XB) respectively) and / or such other proposals as shall be approved by the District Lands Officer on or before 30 June 2021. In the event of the non-fulfilment of this obligation, the District Lands Officer may carry out the necessary works on our behalf at our expense and we shall pay to the Government on demand a sum equal to the cost thereof, such sum which shall include supervisory and overhead charges, to be determined by the District Lands Officer whose determination shall be final and shall be binding upon us. For the avoidance of doubt, we hereby declare and confirm that our agreement under this Undertaking shall continue to be effective and we shall continue to be bound to observe and perform our obligations under this Undertaking after the termination of the Short Term Tenancy No. KX 2844 and the completion of the proposed private treaty grant of the West Kowloon Cultural District site (intended to be known as Kowloon Inland Lot No. 11260) to us.

IN WITNESS whereof we have caused the Corporate Seal of the West Kowloon Cultural District Authority affixed hereunto

the 30<sup>th</sup> day of July, 2019.

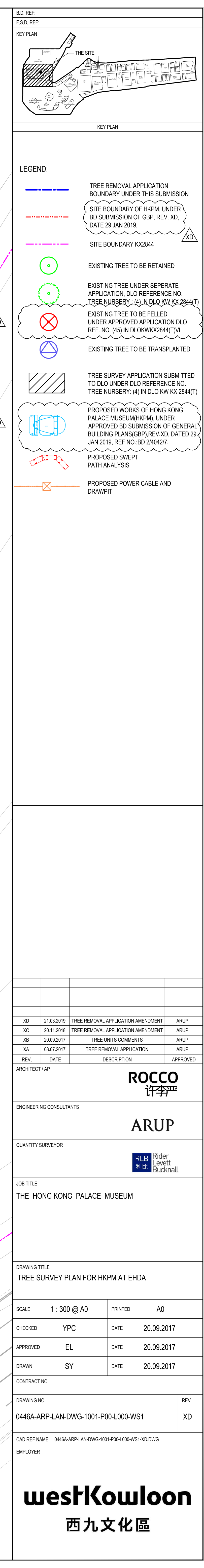
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West Kowloon Cultural District Authority )

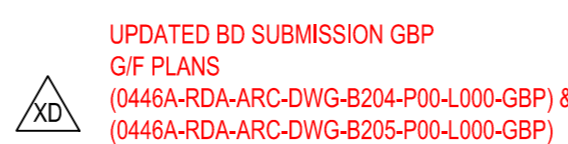
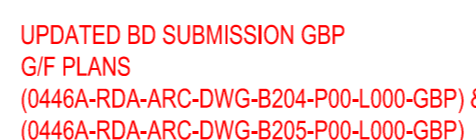
and authenticated by

D.W. Pescod<sup>4</sup>  
HKID No. XD816701(5)<sup>4</sup>  
Arculli, Ronald Joseph<sup>4</sup>  
Member of the Board<sup>4</sup>  
HKID No. [REDACTED]

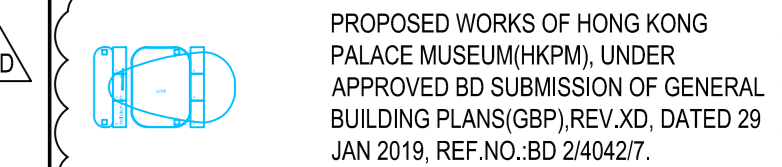
John Good Ronald A. Arant












CODE	SCIENTIFIC NAME	CHINESE NAME	HEIGHT (mm)	SPREAD (mm)	DBH (mm)	QTY	REMARKS
TER. MAN.	TERMINALIA MANTALY	小葉欖仁	6000	4000	100	10	AT LEAST 60% LIVE CROWN RATIO

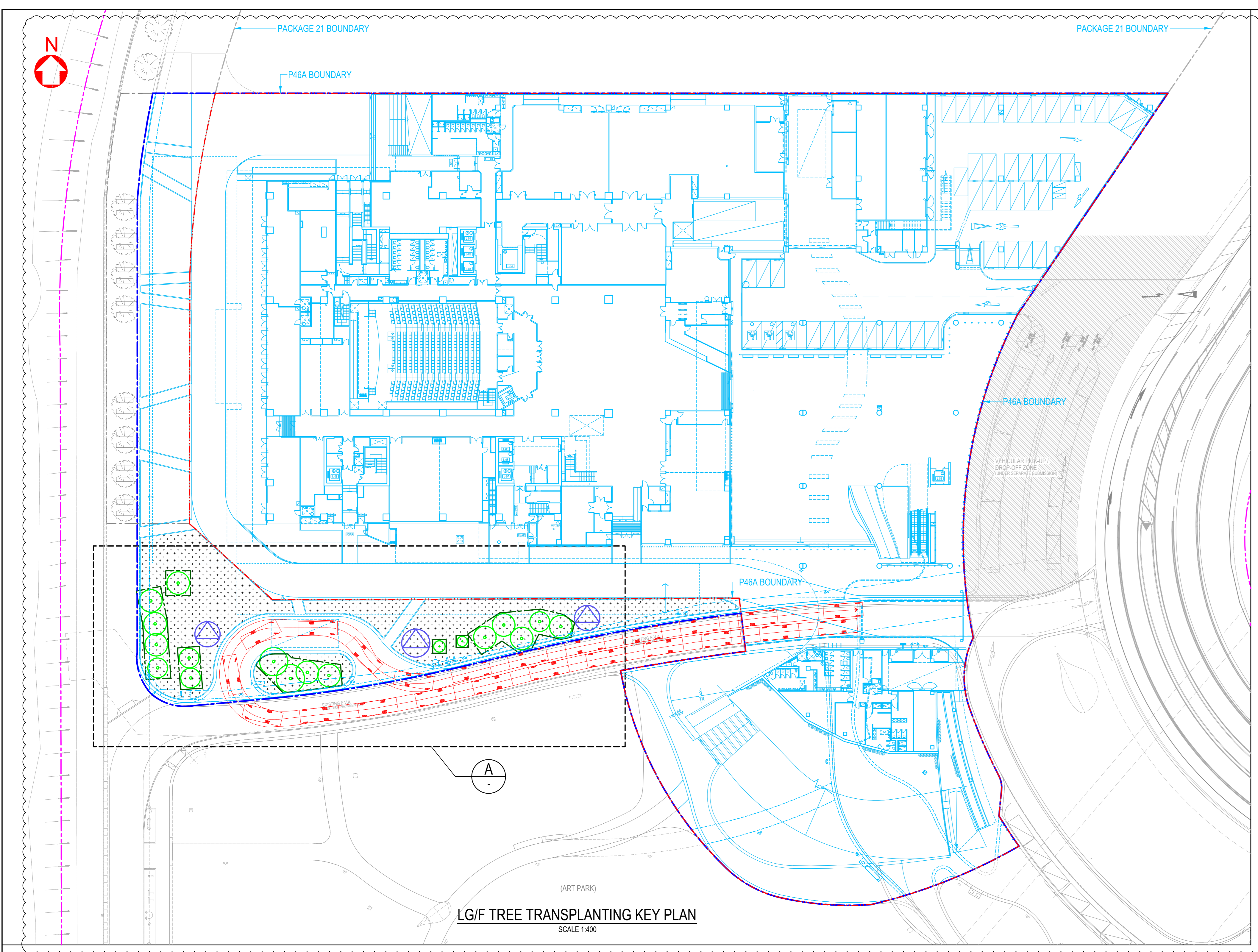


ARCHITECT / AP	 
ENGINEERING CONSULTANTS	
QUANTITY SURVEYOR	 

SCALE	AS SHOWN @ A0	PRINTED	A0
CHECKED	YPC	DATE	20.09.2017
APPROVED	EL	DATE	20.09.2017
DRAWN	SY	DATE	20.09.2017

DRAWING NO.	REV.
0446A-ARP-LAN-DWG-1002-P00-L000-WS1	XD
CAD REF NAME: 0446A-ARP-LAN-DWG-1002-P00-L000-WS1:XD.DWG	
EMPLOYER	

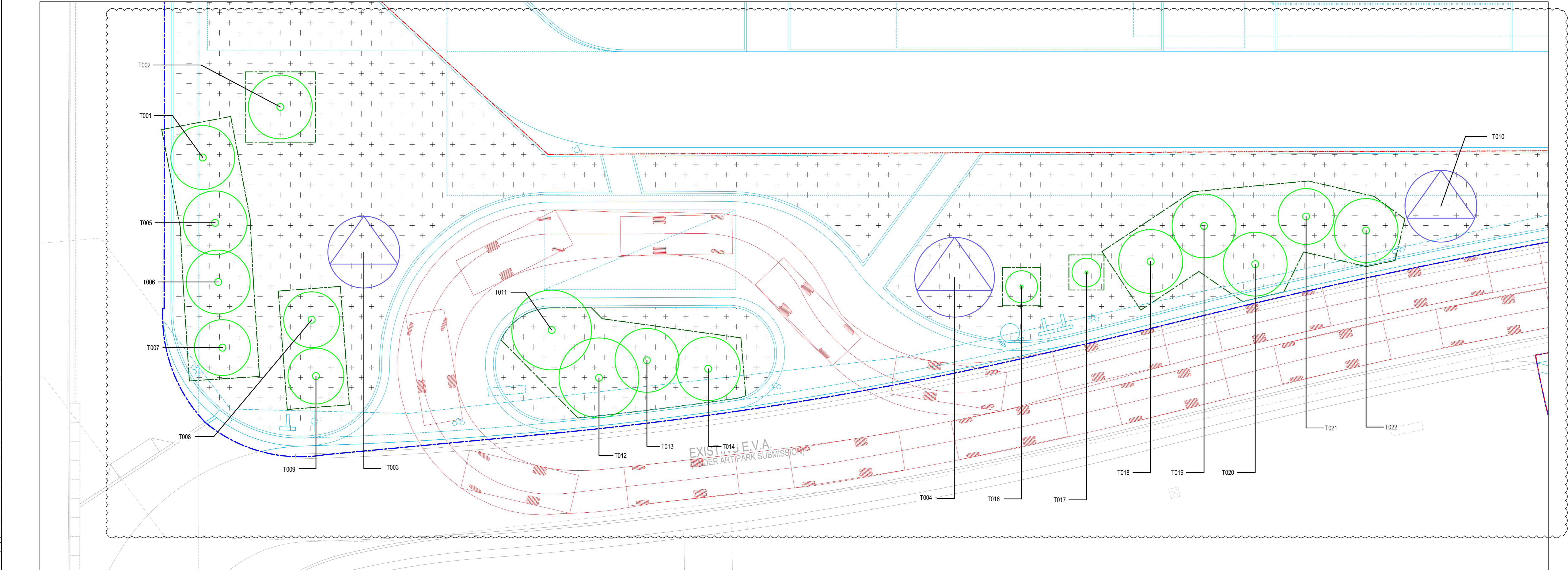
**westKowloon**  
西九文化區



UPDATED BD SUBMISSION GBP  
LGF PLANS  
(0446A-RDA-ARC-DWG-B202-P00-LULG-GBP) &  
(0446A-RDA-ARC-DWG-B203-P00-LULG-GBP)

TRANSPLANTED TREE SCHEDULE

TREE NO.	SCIENTIFIC NAME	CHINESE NAME	HEIGHT (mm)	SPREAD (mm)	DBH (mm)
T003	FICUS VIRENS	黃葛樹	4500	4500	92
T004	FICUS MICROCARPA	榕樹	4500	5000	124
T010	LIQUIDAMBAR FORMOSANA	楓香	4500	4000	111



UPDATED BD SUBMISSION GBP  
LGF PLANS  
(0446A-RDA-ARC-DWG-B202-P00-LULG-GBP) &  
(0446A-RDA-ARC-DWG-B203-P00-LULG-GBP)

B.D. REF:

F.S.D. REF:

KEY PLAN

NOTES:

1. MIN. 1200mm SOIL DEPTH IS REQUIRED FOR TREES PLANTING.

LEGEND:

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TREE REMOVAL APPLICATION BOUNDARY UNDER THIS SUBMISSION

---

SITE BOUNDARY OF HKPM UNDER BD SUBMISSION OF GBP, REV. XD, DATE 29 JAN 2019.

---

SITE BOUNDARY KX2844

RETAINED TREES

TRANSPLANTED TREES

PLANTING AREA

PROPOSED WORKS OF HONG KONG PALACE MUSEUM (HKPM) UNDER APPROVED BD SUBMISSION OF GENERAL BUILDING PLANS (GBP), REV. XD, DATED 29 JAN 2019, REF. NO. BD 240427.

TREE PROTECTION ZONE

ARCHITECT I / AP

ROCCO 許李

ENGINEERING CONSULTANTS

ARUP

QUANTITY SURVEYOR

Rider Levett Bucknall

JOB TITLE

THE HONG KONG PALACE MUSEUM

DRAWING TITLE

TREE TRANSPLANTING PLAN FOR HKPM AT EHDA

SCALE

AS SHOWN @ A0

PRINTED

A0

CHECKED

YPC

DATE

20.11.2017

APPROVED

EL

DATE

20.11.2017

DRAWN

SY

DATE

20.11.2017

CONTRACT NO.

DRAWING NO.

0446A-APP-LAN-DWG-1003-P00-L000-WS1

REV.

XB

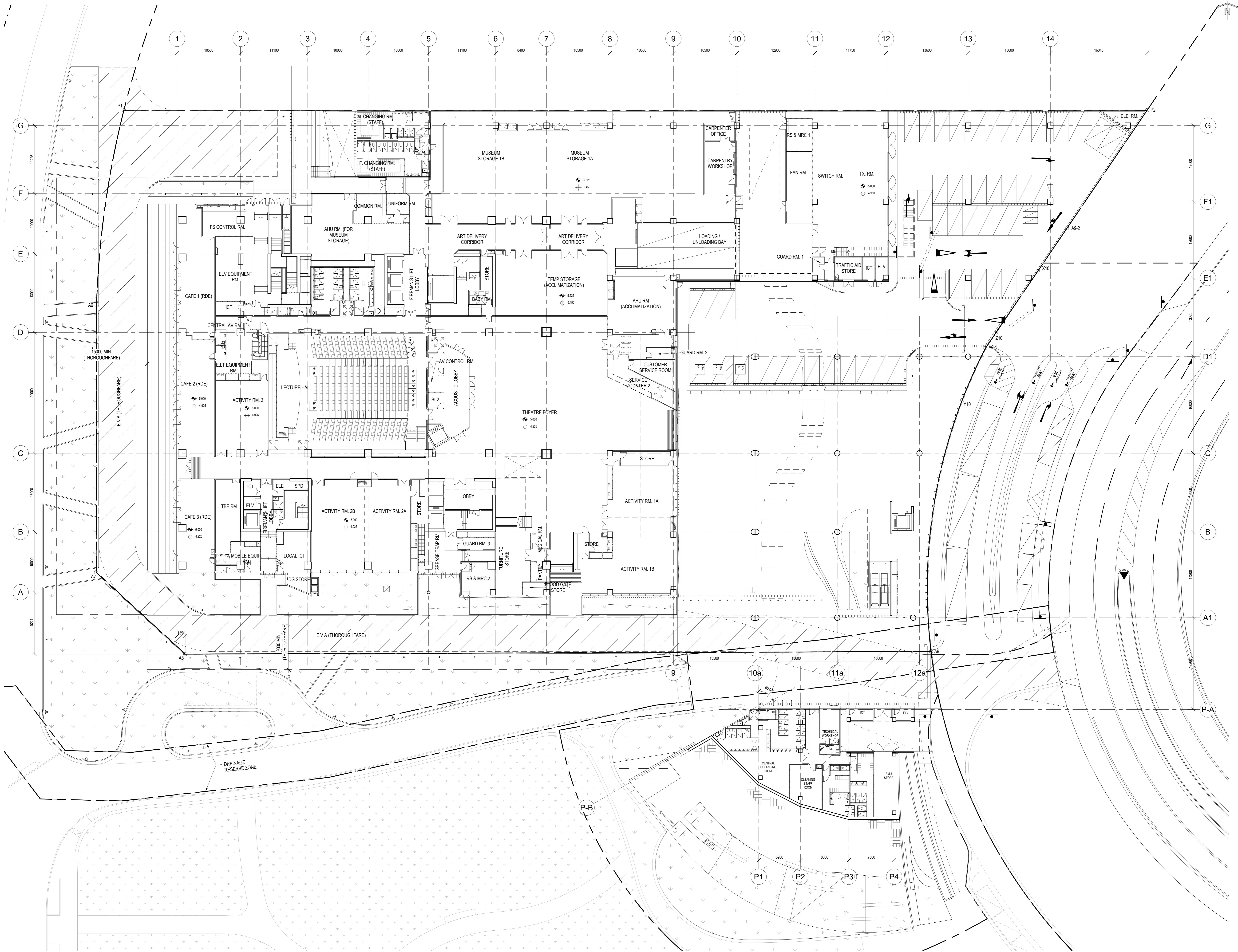
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EMPLOYER

westKowloon 西九文化區





B.D.REF: 2404217  
F.S.D.REF: PPR627027 (J)

KEY PLAN

KEY PLAN

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XY1	18-11-2018	DRAFT LOC	FH
XB	05-10-2018	MC TENDER ADDENDUM No. 2	FH
XA	04-09-2018	MC TENDER	FH
REV	DATE	DESCRIPTION	APPROVED

ARCHITECT / AP

ROCCO  
設計

ENGINEERING CONSULTANTS

ARUP

QUANTITY SURVEYOR

Rider  
Levett  
Suckall

JOB TITLE:  
THE HONG KONG PALACE MUSEUM

DRAWING TITLE:  
LOWER GROUND FLOOR MASTER LAYOUT PLAN

SCALE	1 : 200	PRINTED	A0
CHECKED	SHW	DATE	05-10-2018
APPROVED	FH	DATE	05-10-2018
DRAWN	RC	DATE	05-10-2018

CONTRACT NO.

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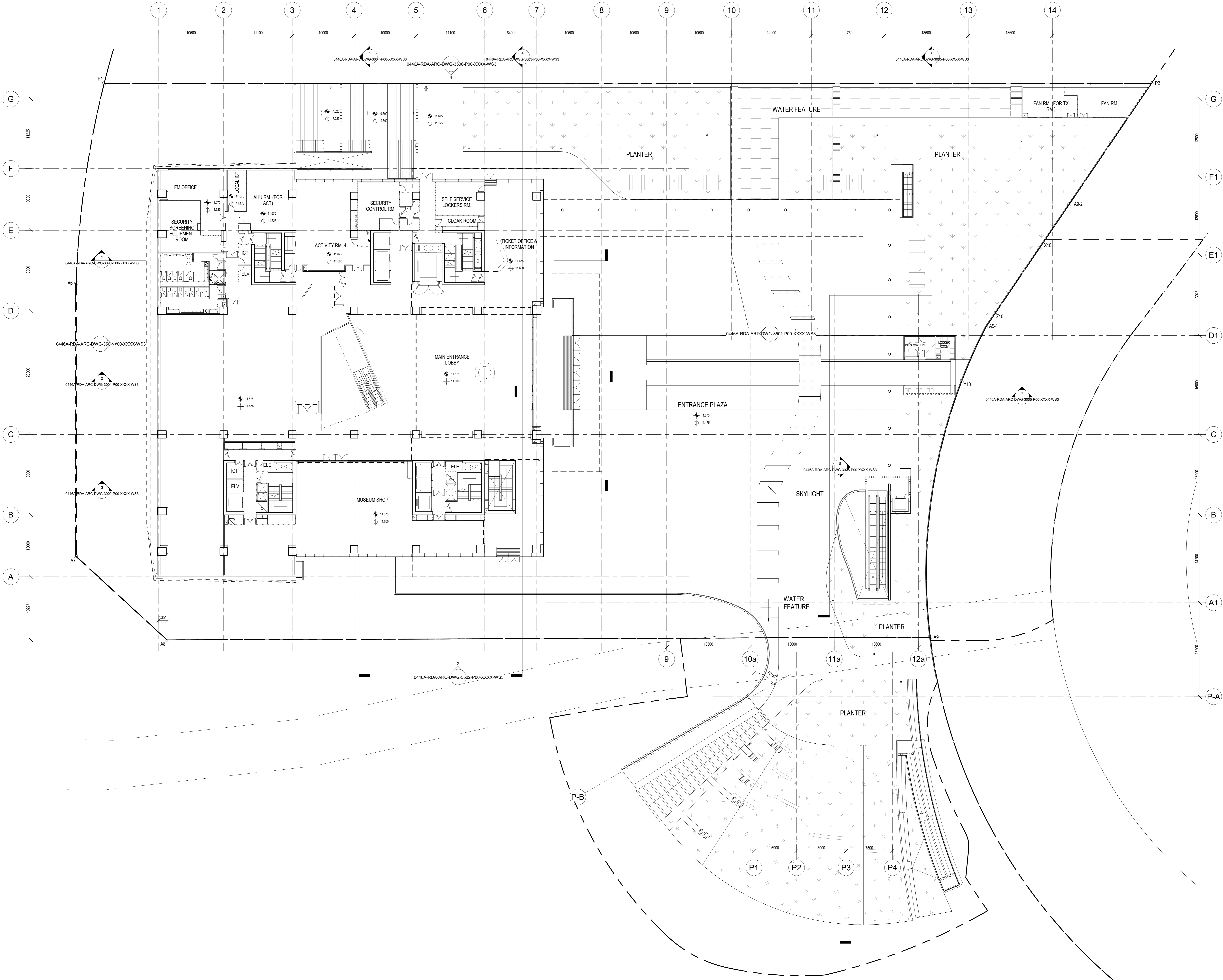
REV  
XC1

CAD REF NAME : 046A-RDA-ARC-DWG-1000-P00-LL00-WS3.DWG

EMPLOYER

westKowloon  
西九文化區

A0 (1188mm x 841mm) Sheet Size



B.D.REF: 2404217  
F.S.D.REF: PPR627027 (J)

KEY PLAN

KEY PLAN

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NO.	DATE	DESCRIPTION	APPROVED
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2	05-10-2018	MC TENDER ADDENDUM No. 2	FH
3	04-09-2018	MC TENDER	FH
REV	DATE	DESCRIPTION	APPROVED

ARCHITECT / AP

ROCCO

1444

ENGINEERING CONSULTANTS

ARUP

QUANTITY SURVEYOR

RLD Rider Levett Bucknall

JOB TITLE

THE HONG KONG PALACE MUSEUM

DRAWING TITLE

GROUND FLOOR MASTER LAYOUT PLAN

SCALE	1 : 200	PRINTED	A0
CHECKED	SHW	DATE	05-10-2018
APPROVED	FH	DATE	05-10-2018
DRAWN	RC	DATE	05-10-2018

CONTRACT NO.

DRAWING NO.

0446A-RDA-ARC-DWG-1001-P00-L000-WS3

REV

XC1

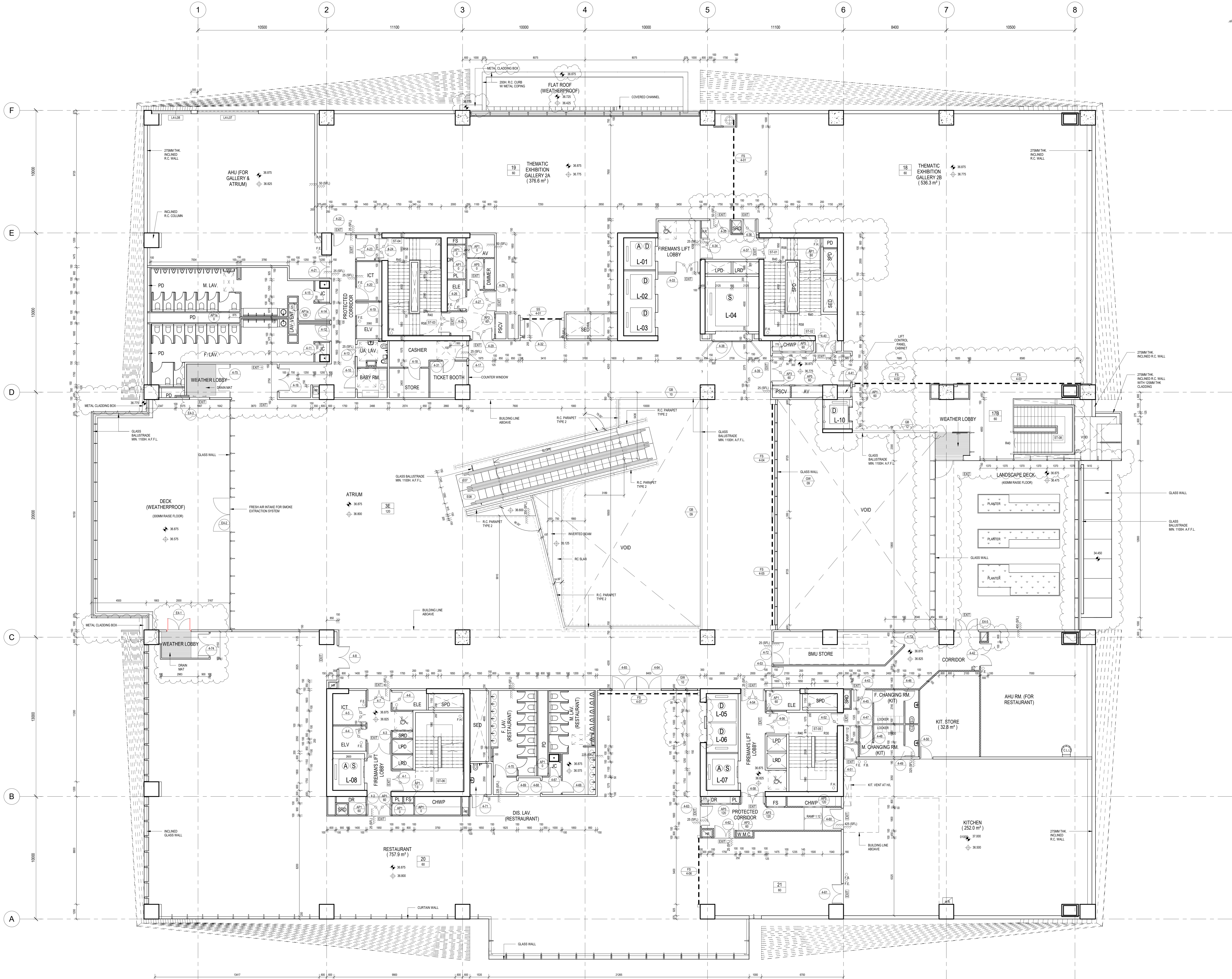
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EMPLOYER

westKowloon

西九文化區

A0 (1189mm x 841mm) Sheet Size



B.D. REF: 2404217  
F.S.D. REF: FPH02707 (J)

KEY PLAN

KEY PLAN

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LEGEND

- WEARING SLAB
- FAIR-FACE SURFACE FINISH

NO.	DATE	DESCRIPTION	APPROVED
1	18-11-2018	DRAFT LOC	FH
2	05-10-2018	MC TENDER ADDENDUM No. 2	FH
3	04-09-2018	MC TENDER	FH
4	DATE	DESCRIPTION	APPROVED

ARCHITECT / AP  
**ROCCO**  
1747

ENGINEERING CONSULTANTS  
**ARUP**  
Rider  
Levett  
Suckall

JOB TITLE  
THE HONG KONG PALACE MUSEUM

DRAWING TITLE  
4TH FLOOR PLAN

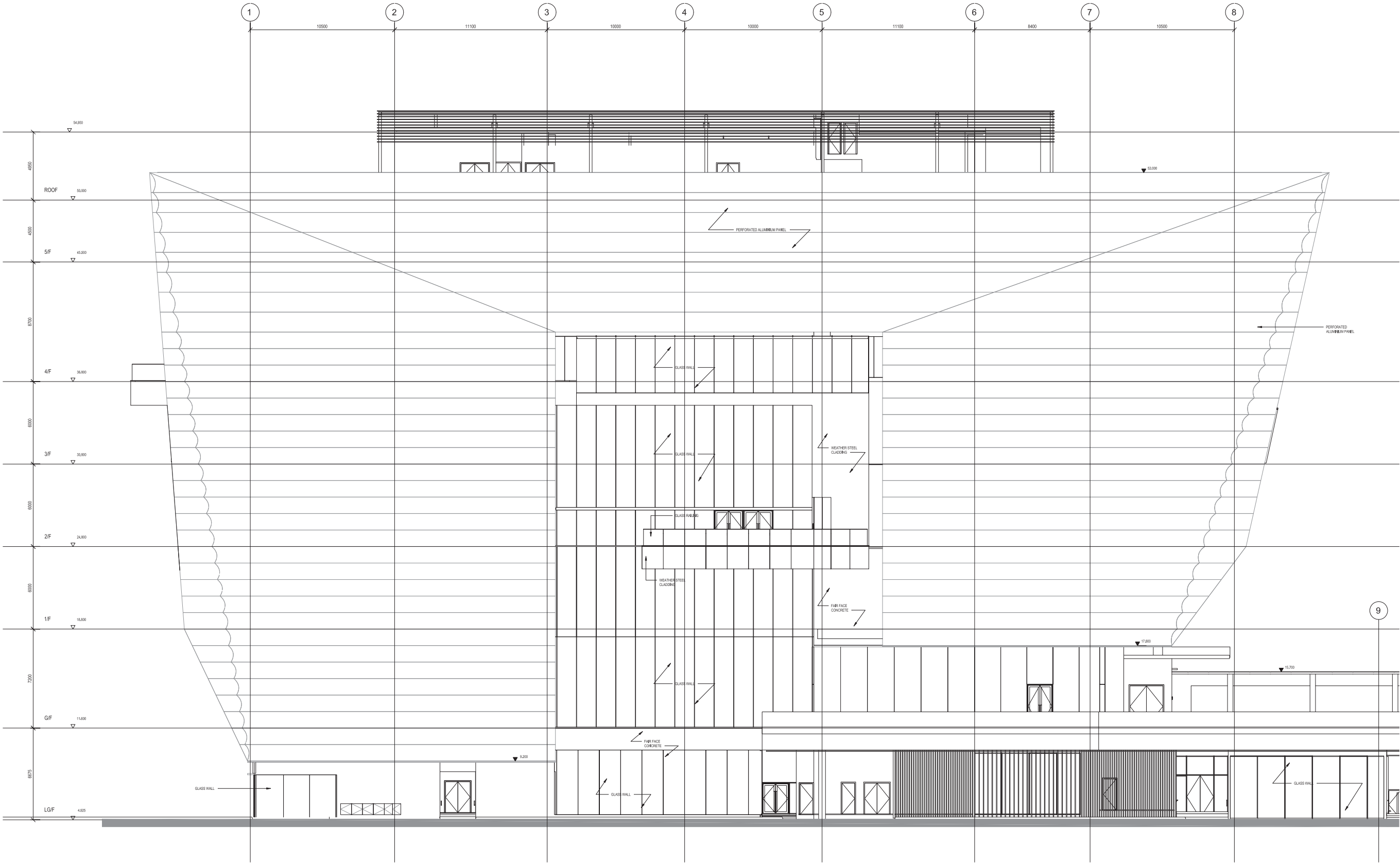
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EMPLOYER			

westKowloon

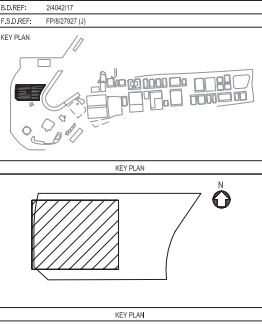
西九文化區

A0 (1189mm x 841mm) Sheet Size





2 South Elevation  
Scale 1:100



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REV.	DATE	REVISION	APPROVED
01	01-06-2018	TENDER PREPARATION	REV.
02	01-06-2018	DESIGN DEVELOPMENT	REV.
03	01-06-2018	DESIGN DEVELOPMENT	REV.
04	01-06-2018	DESIGN DEVELOPMENT	REV.
05	01-06-2018	DESIGN DEVELOPMENT	REV.
06	01-06-2018	DESIGN DEVELOPMENT	REV.
07	01-06-2018	DESIGN DEVELOPMENT	REV.
08	01-06-2018	DESIGN DEVELOPMENT	REV.
09	01-06-2018	DESIGN DEVELOPMENT	REV.
10	01-06-2018	DESIGN DEVELOPMENT	REV.
11	01-06-2018	DESIGN DEVELOPMENT	REV.
12	01-06-2018	DESIGN DEVELOPMENT	REV.
13	01-06-2018	DESIGN DEVELOPMENT	REV.
14	01-06-2018	DESIGN DEVELOPMENT	REV.
15	01-06-2018	DESIGN DEVELOPMENT	REV.
16	01-06-2018	DESIGN DEVELOPMENT	REV.
17	01-06-2018	DESIGN DEVELOPMENT	REV.
18	01-06-2018	DESIGN DEVELOPMENT	REV.
19	01-06-2018	DESIGN DEVELOPMENT	REV.
20	01-06-2018	DESIGN DEVELOPMENT	REV.

ARCHITECT / AP	ROCCO 許諾
ENGINEERING CONSULTANTS	ARUP
QUANTITY SURVEYOR	B.L.G. 李德林

JOB TITLE  
THE HONG KONG PALACE MUSEUM

DRAWING TITLE  
SOUTH ELEVATION

SCALE	1:100	PRINTED	A0
CHECKED	SHW	DATE	01-06-2018
APPROVED	PH	DATE	01-06-2018
DRAWN	RC	DATE	01-06-2018

CONTRACT NO.

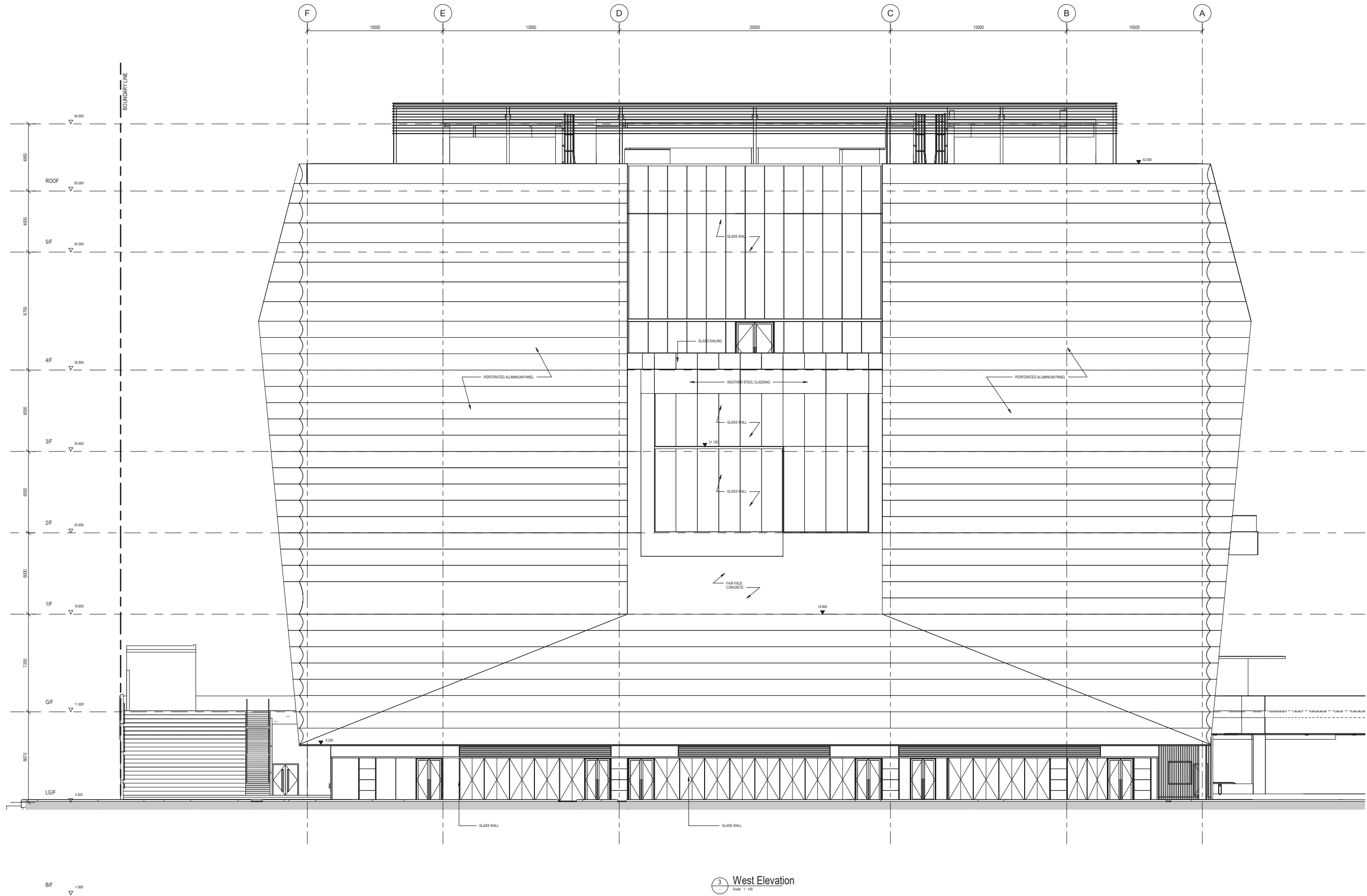
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EMPLOYER

westKowloon

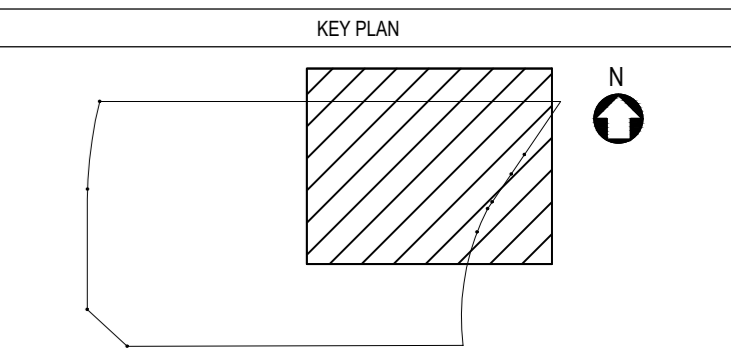
西九文化區











NOTES:

ARCHITECT / AP **BOSSO**

ENGINEERING CONSULTANTS

QUANTITY SURVEYOR

JOB TITLE \_\_\_\_\_

THE HONG KONG PALACE MUSEUM

DRAINAGE LAYOUT - GROUND FLOOR (2 OF 4)

SCALE	1:100	PRINTED	A0
CHECKED	PH	DATE	21.12.2018
APPROVED	CF	DATE	21.12.2018
DRAWN	ARUP	DATE	21.12.2018

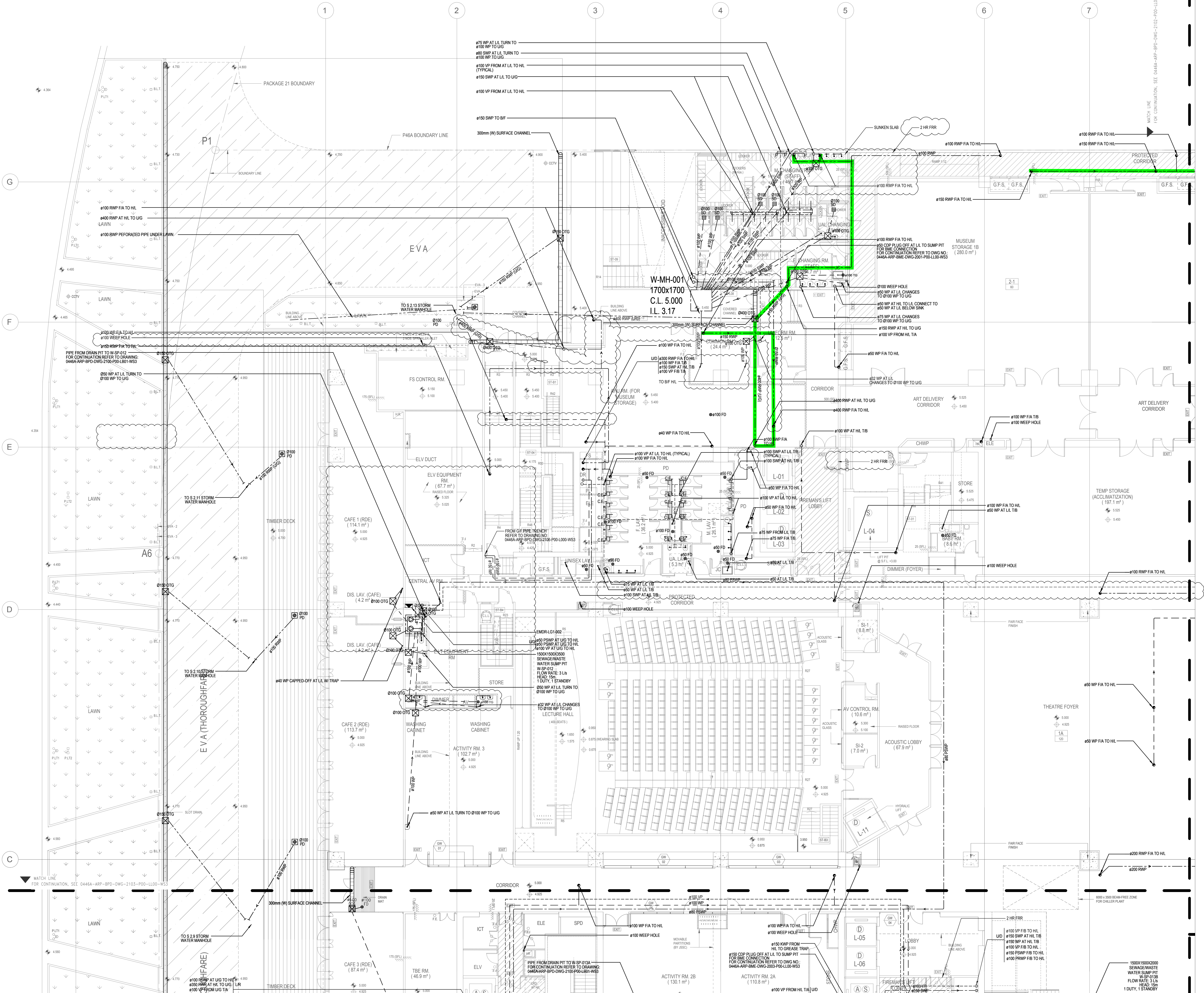
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0446A-ARP-BPD-DWG-2107-P00-L000-WS3	XC1

CAD REF NAME: 0446A-ARP-BPD-DWG-2107-P00-L000-WS3-XC1.dwg

EMPLOYER

**westKowloon**  
西九文化區





S.D. REF: 40403111(P)  
F.S.D. REF: F982702(J)

KEY PLAN

THE SITE

KEY PLAN

KEY PLAN

NOTES

PROPOSED ROUTING FOR  
PLANTER DRAIN ON G/F

ARCHITECT / AP

**ROCCO**

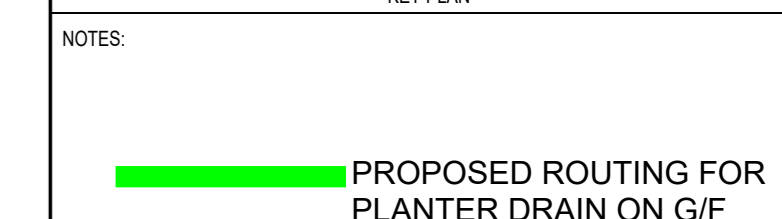
ENGINEERING CONSULTANTS





**ARUP**

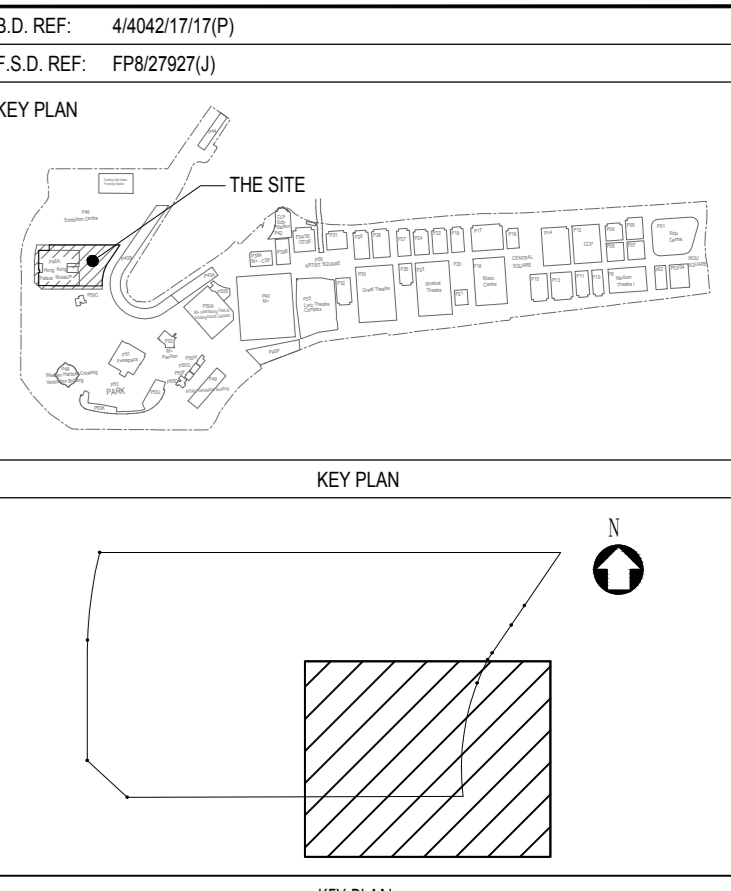
QUANTITY SURVEYOR

**Rider Levett Bucknall**

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THE HONG KONG PALACE MUSEUM			
DRAWING TITLE			
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SCALE	1:100	PRINTED	A0
CHECKED	PH	DATE	21.12.2018
APPROVED	CF	DATE	21.12.2018
DRAWN	ARUP	DATE	21.12.2018
CONTRACT NO.			
DRAWING NO.			
0446A-ARP-BPD-DWG-2101-P00-L00-WS3			
C/D REF NAME: 0446A-ARP-BPD-DWG-2101-P00-L00-WS3.XC1.dwg			
EMPLOYER			
westKowloon			
西九文化區			



ARCHITECT / AP			
ENGINEERING CONSULTANTS			
			
QUANTITY SURVEYOR			
JOB TITLE			
THE HONG KONG PALACE MUSEUM			
DRAWING TITLE			
DRAINAGE LAYOUT - LOWER GROUND FLOOR (2 OF 4)			
SCALE	1:100	PRINTED	A0
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APPROVED	CF	DATE	21.12.2018
DRAWN	ARUP	DATE	21.12.2018
CONTRACT NO.			
DRAWING NO.			REV
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CAD FILE NAME: 0464A-ARP-BPD-DWG-2102-P00-LL00-WS3.XCT.dwg			
EMPLOYER			
			



ARCHITECT / AP

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ENGINEERING CONSULTANTS

ARUP

QUANTITY SURVEYOR

 Rider  
Levett  
Bucknall

THE HONG KONG PALACE MUSEUM

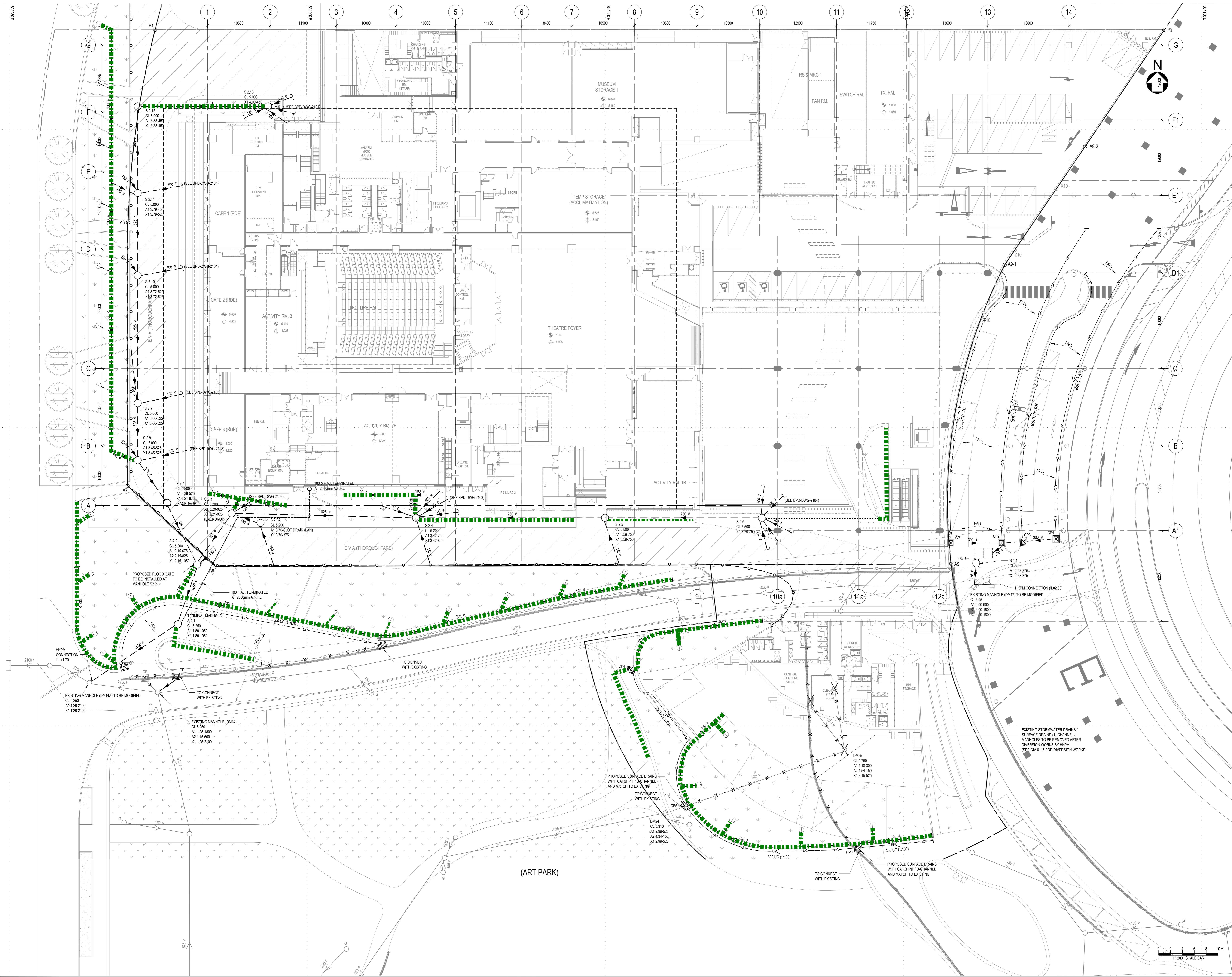
DRAINAGE LAYOUT - LOWER GROUND FLOOR (4 OF 4)

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DRAWING NO.	REV.
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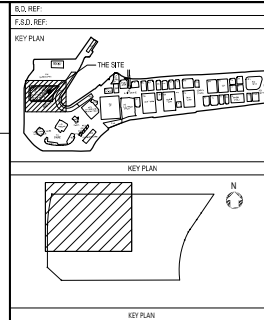
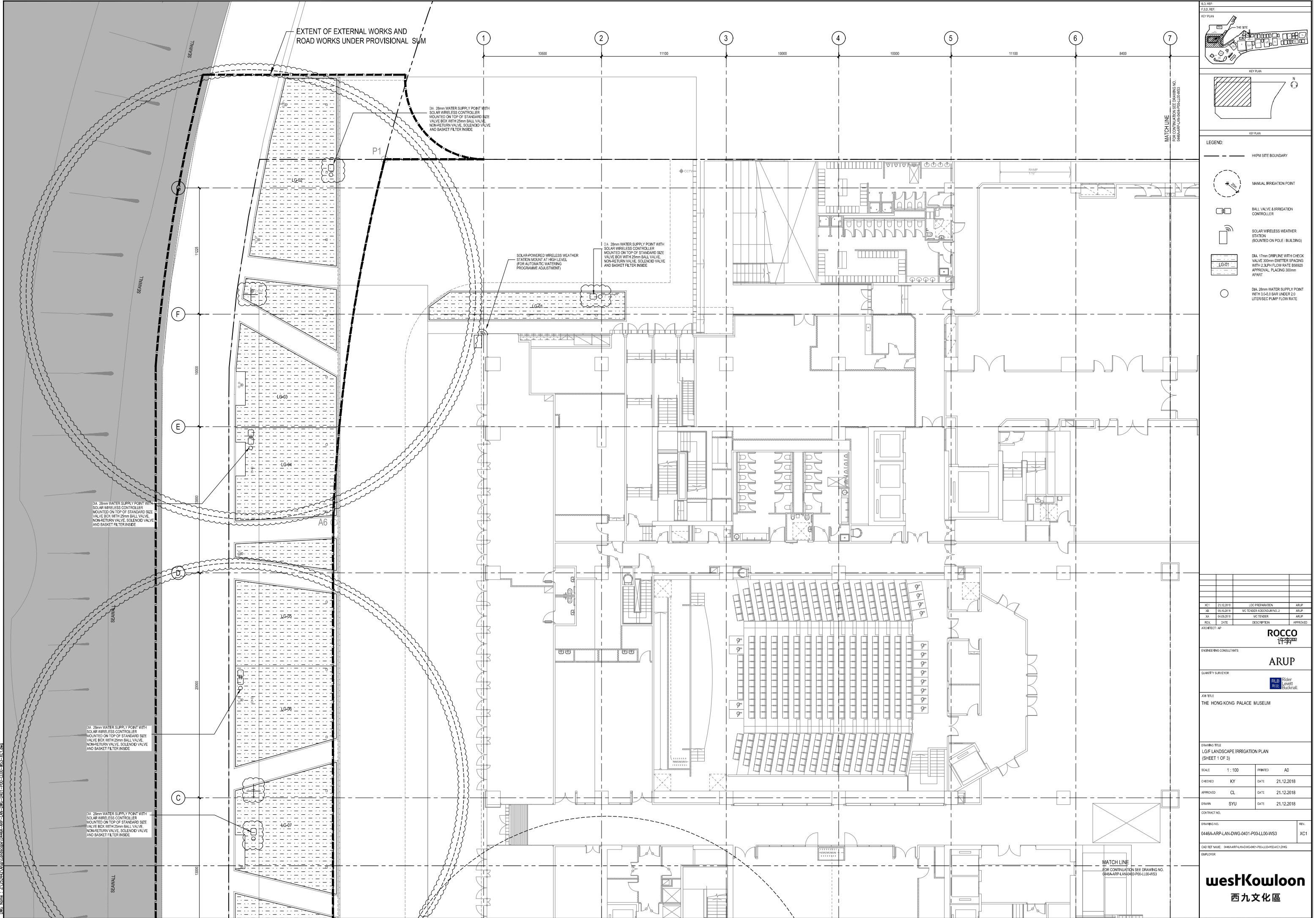
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西九文化區





**APPENDIX H**  
Irrigation Plan



- LEGEND:
- HPM SITE BOUNDARY
  - MANUAL IRRIGATION POINT
  - BALL VALVE & IRRIGATION CONTROLLER
  - SOLAR WIRELESS WEATHER STATION (BOUNDED ON POLE / BUILDING)
  - 17mm DRIPLINE WITH CHECK VALVE 100mm EMITTER SPACING WITH 2.0LPH FLOW RATE @ 50000 APPROVAL PLACING 300mm APART
  - 28mm WATER SUPPLY POINT WITH 3.0L/S BAR UNDER 2.0 LITER/SEC FLOW RATE

REV.	DATE	DESCRIPTION	APPROVED
XC1	21.12.2018	LOC PREPARATION	ARUP
XA	24.02.2019	WC TENDER (2000000000.00)	ARUP
XB	24.02.2019	WC TENDER (2000000000.00)	ARUP
XC	24.02.2019	WC TENDER (2000000000.00)	ARUP

ARCHITECT / AP	ROCCO 1777
ENGINEERING CONSULTANTS	ARUP
QUANTITY SURVEYOR	BLB Rider Lovett Bucknall

JOB TITLE  
THE HONG KONG PALACE MUSEUM

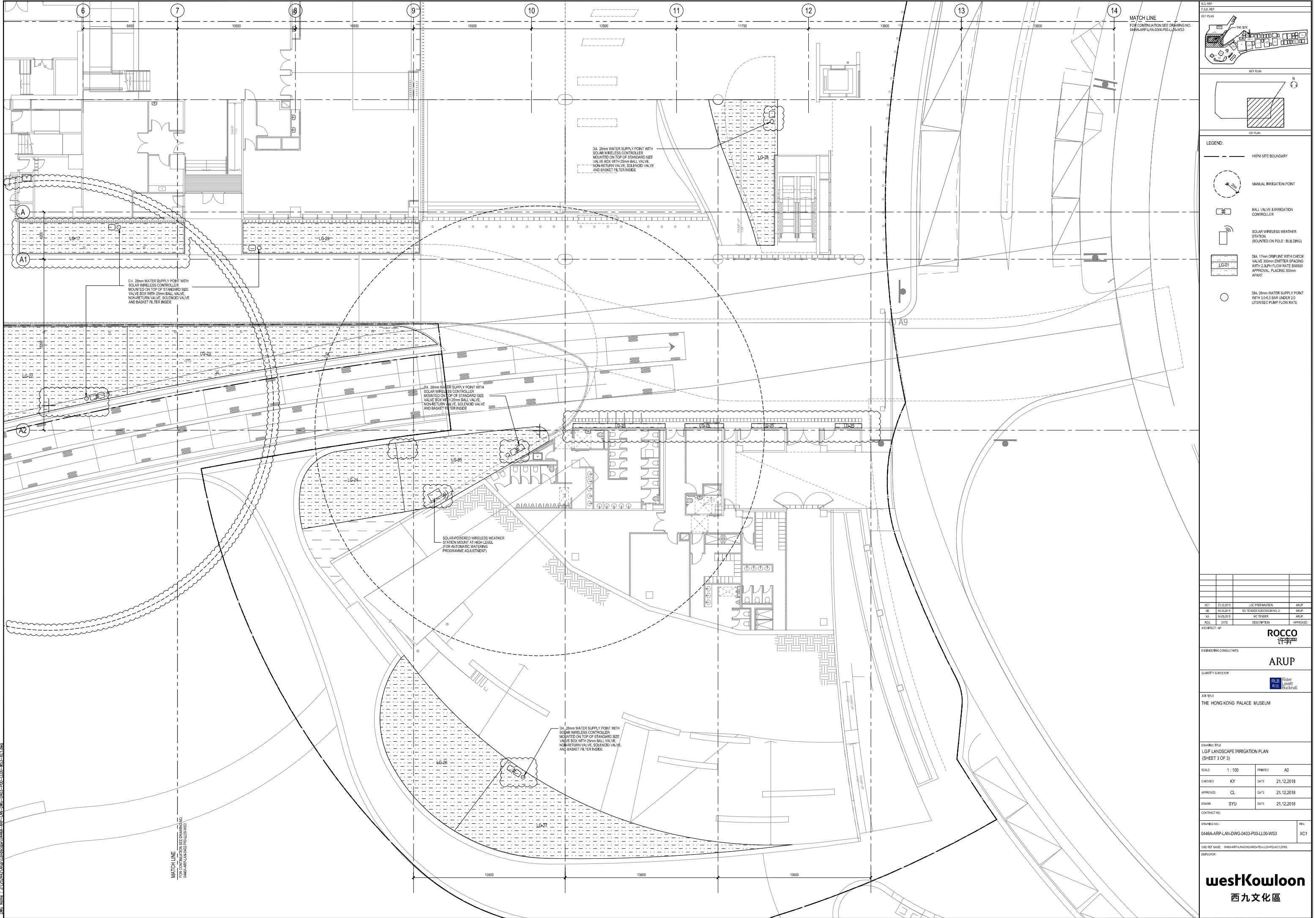
DRAWING TITLE  
LG/F LANDSCAPE IRRIGATION PLAN  
(SHEET 1 OF 3)

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APPROVED	CL	DATE	21.12.2018
DRAWN	SYU	DATE	21.12.2018

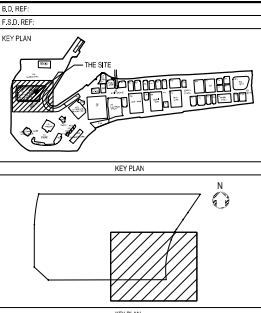
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0446A-ARP-LAN-DWG-0401-P00-LLOQ-WVS3	REV. XC1
CAD REF NAME	0446A-ARP-LAN-DWG-0401-P00-LLOQ-WVS3
EMPLOYER	

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西九文化區





MATCH LINE  
FOR CONTINUATION SEE DRAWING NO.  
0466A-ARP-LAN-004-P00-LLO-WS3



- LEGEND:
- HPM SITE BOUNDARY
  - MANUAL IRRIGATION POINT
  - BALL VALVE & IRRIGATION CONTROLLER
  - SOLAR WIRELESS WEATHER STATION (BOUNDED ON POLE / BUILDING)
  - DIA. 17mm DRIFLINE WITH CHECK VALVE 300mm EMITTER SPACING WITH 2.0LPH FLOW RATE @ 50KPa APPROVAL, PLACING 50mm APART
  - DIA. 28mm WATER SUPPLY POINT WITH 3.0-5.0 BAR UNDER 2.0 LITER/SEC PUMP FLOW RATE

XC1	21.12.2018	LOC PREPARATION	ARUP
XB	05.10.2018	MC TENDER ADDENDUM NO. 2	ARUP
XA	04.09.2018	MC TENDER	ARUP
REV.	DATE	DESCRIPTION	APPROVED

ARCHITECT: AP

ENGINEERING CONSULTANTS

QUANTITY SURVEYOR

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BLR Rider Levett Bucknall

JOB TITLE  
THE HONG KONG PALACE MUSEUM

DRAWING TITLE  
LG/F LANDSCAPE IRRIGATION PLAN  
(SHEET 3 OF 3)

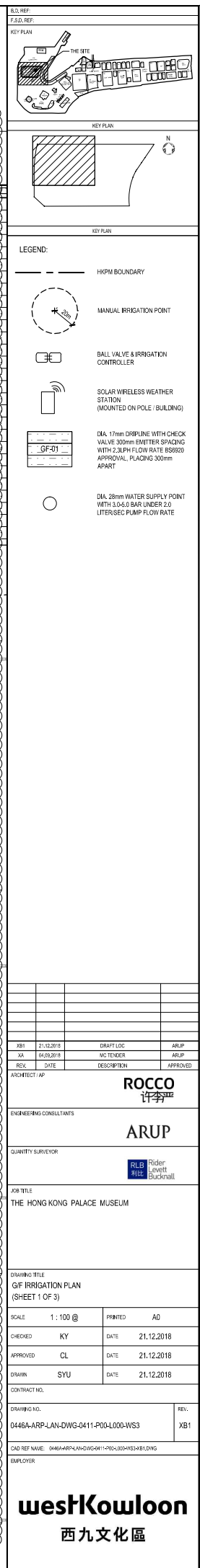
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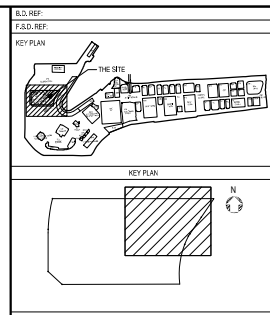
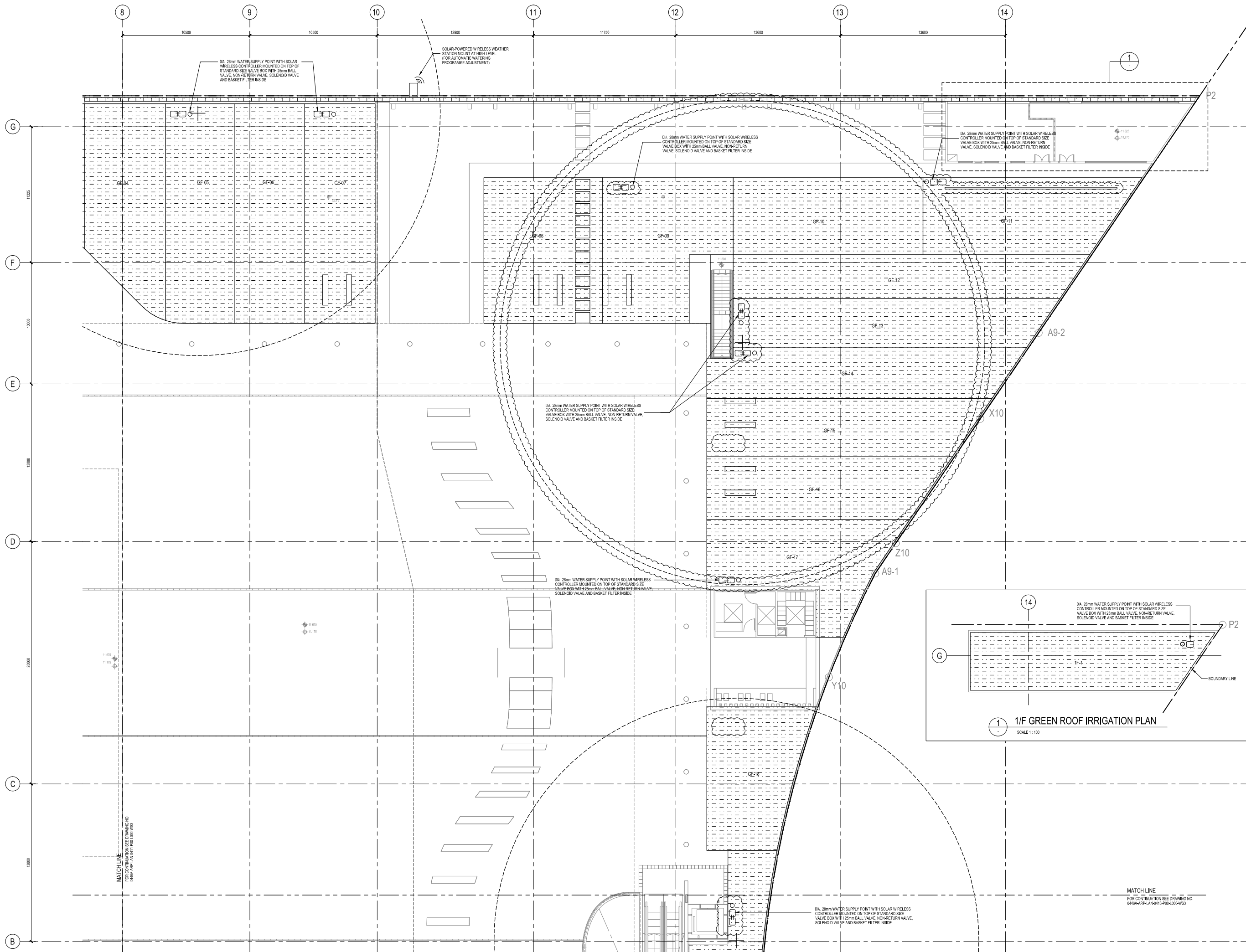
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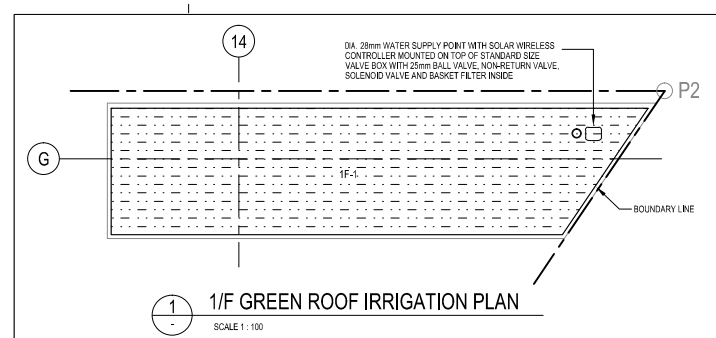
EMPLOYER

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西九文化區





- LEGEND:
- HKPM SITE BOUNDARY
  - MANUAL IRRIGATION POINT
  - BALL VALVE & IRRIGATION CONTROLLER
  - SOLAR WIRELESS WEATHER STATION (MOUNTED ON POLE / BUILDING)
  - DIA. 17mm DRIP LINE WITH CHECK VALVE 300mm SPACING WITH 2.0LPH FLOW RATE @ 50000 APPROVAL, PLACING 300mm APART
  - DIA. 25mm WATER SUPPLY POINT WITH 3.0-5.0 BAR UNDER 2.0 LITER/SEC PUMP FLOW RATE



NO.	DATE	DESCRIPTION	APPROVED
XC1	21.12.2018	LOC PREPARATION	ARUP
XB	05.01.2019	LOC TENDER AND DRAWING NO. 2	ARUP
XC	05.01.2019	LOC TENDER	ARUP
REV.	DATE	DESCRIPTION	APPROVED
ARCHITECT	AP		

ENGINEERING CONSULTANTS

QUANTITY SURVEYOR

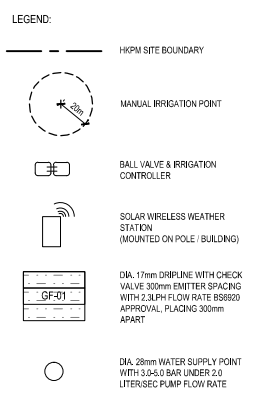
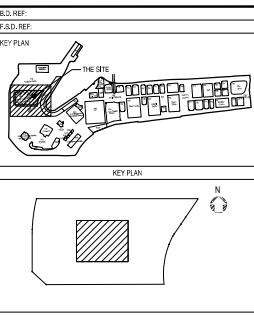
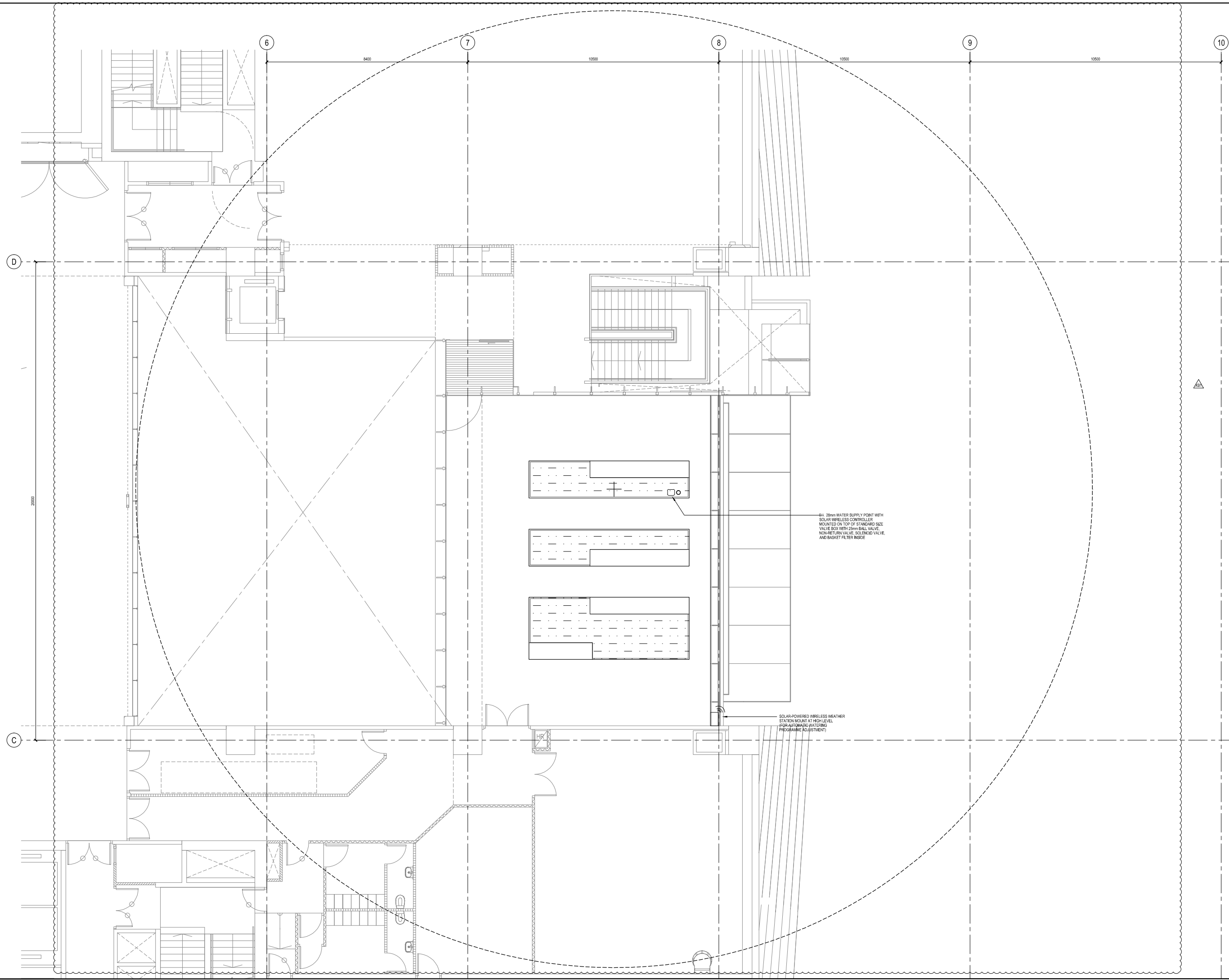
ARCH TITLE

THE HONG KONG PALACE MUSEUM

DRAWING TITLE			
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(SHEET 2 OF 3)			
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CHECKED	KY	DATE	21.12.2018
APPROVED	CL	DATE	21.12.2018
DRAWN	SYU	DATE	21.12.2018
CONTRACT NO.			
DRAWING NO.			
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EMPLOYER:			

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XB1	21.12.2018	DRAFT LOC	ARUP
XA	04.09.2018	MC TENDER	ARUP
REV.	DATE	DESCRIPTION	APPROVED

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ENGINEERING CONSULTANTS

ARUP

QUANTITY SURVEYOR

**RLB** Rider  
利比 Levett  
Bucknall

JOB TITLE  
THE HONG KONG PALACE MUSEUM

DRAWING TITLE  
4/F IRRIGATION PLAN

SCALE	1 : 50	PRINTED	A0
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APPROVED	CL	DATE	21.12.2018
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CONTRACT NO. \_\_\_\_\_

DRAWING NO.	REV.
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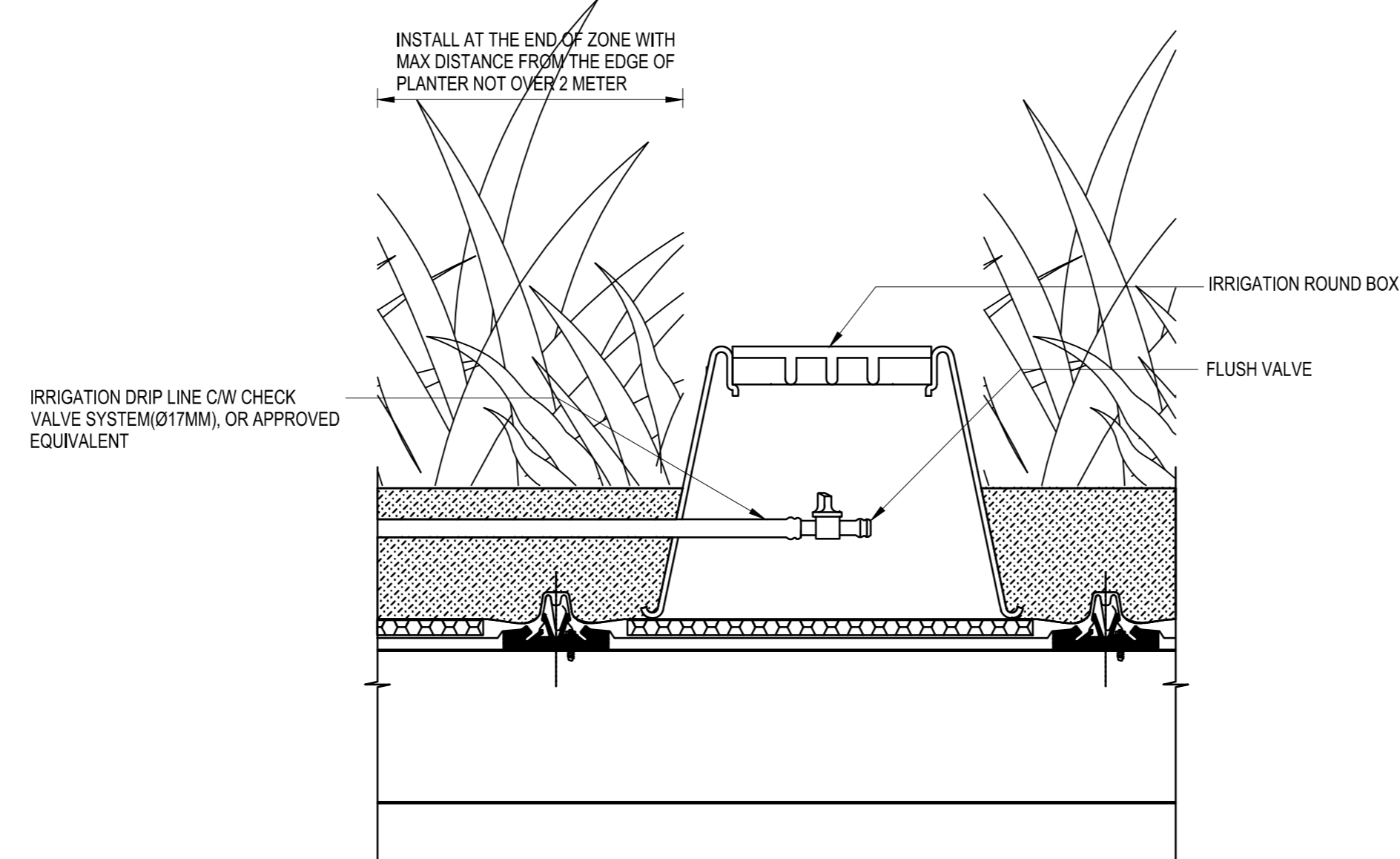
EMPLOYER \_\_\_\_\_

**westKowloon**  
西九文化區

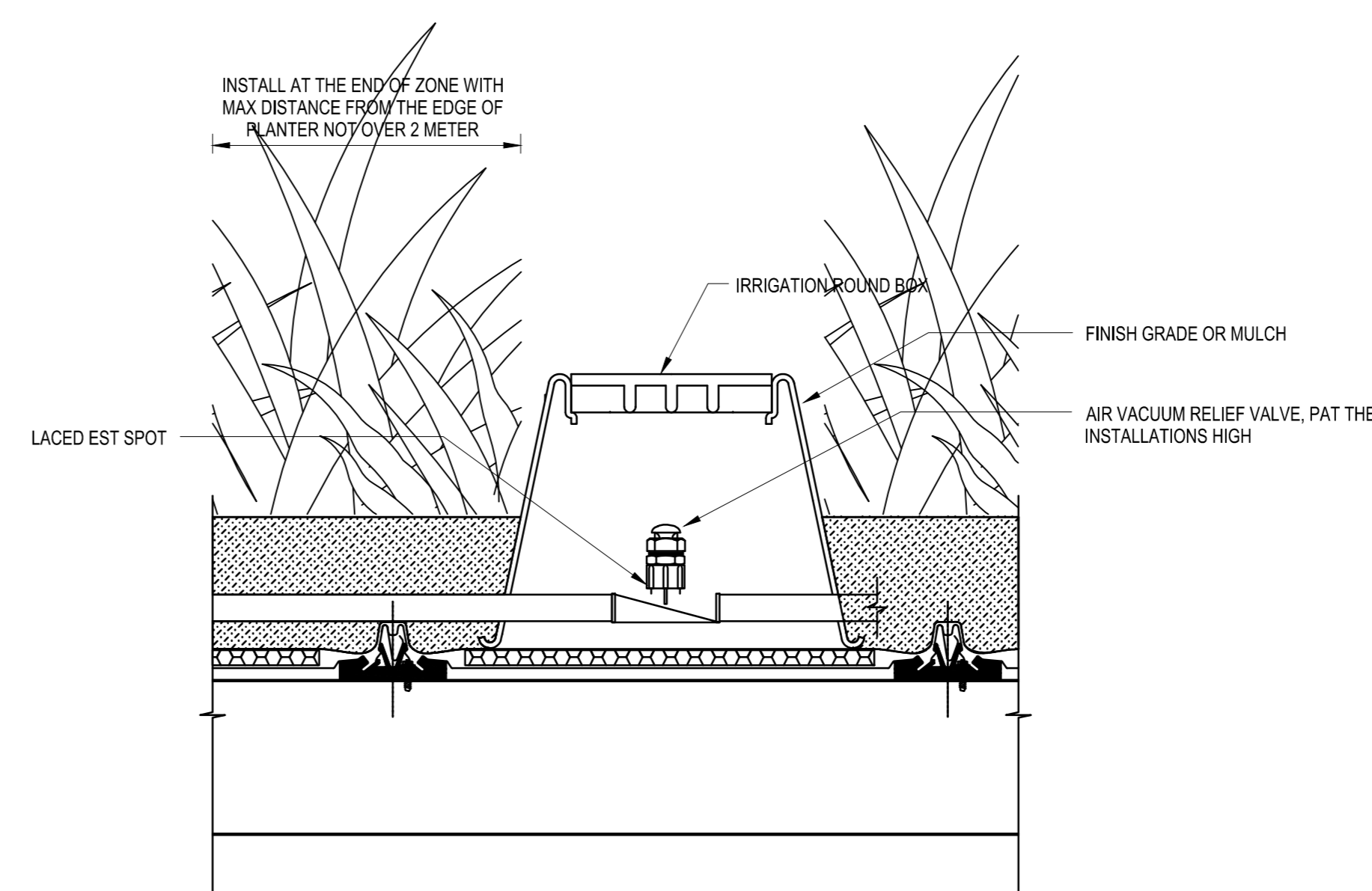


- 
- CHECK VALVE, OR APPROVED EQUIVALENT
- BALL VALVE, OR APPROVED EQUIVALENT
- STANDARD VALVE BOX WITH HEX LOCK
- WATER SUPPLY POINT REFER TO BS ENGINEERS AND/OR CIVIL ENGINEERS' DRAWING
- BY PD WORKS CONTRACTOR
- 100FEB SOLENOID VALVE
- 200 MESH PRESSURE REGULATING BASKET FILTER
- SOLAR WIRELESS IRRIGATION CONTROLLER, OR APPROVED EQUIVALENT MOUNT ON TOP OF IRRIGATION VALVE BOX
- Ø17MM GREEN DRIPLINE WITH CHECK VALVE, OR APPROVED EQUIVALENT  
300MM EMITTER SPACING WITH 2.0 LPH FLOW RATE, PLACING 300MM APART
- 200mm
- 300mm
- DRIPLINE INDICATION FLAG
- AIR RELIEF VALVE AND FLUSH VALVE INSIDE ROUND VALVE BOX
- AR PV

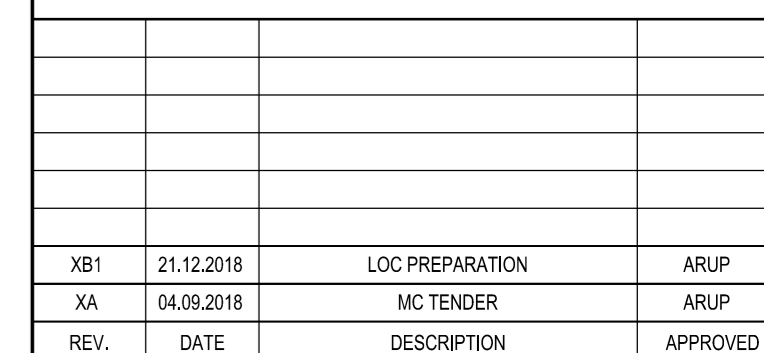
SOLAR WIRELESS IRRIGATION SYSTEM WITH  
DRIP LINE WITH CHECK VALVE OPERATION DIAGRAM  
SCALE N.T.S.



FLUSH VALVE LAYOUT FOR  
SUBSURFACE INSTALLATION OF DRIP LINE  
SCALE N.T.S.



VACUUM RELIEF VALVE LAYOUT FOR  
SUBSURFACE INSTALLATION OF DRIP LINE



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ARUP

QUANTITY SURVEYOR

**RLB** Rider  
利比 Levett  
Bucknall

	JOB TITLE
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THE HONG KONG PALACE MUSEUM

DRAWING TITLE  
AUTOMATIC IRRIGATION DRIP SYSTEM DETAILS

SCALE	AS SHOWN	PRINTED	A0
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APPROVED	CL	DATE	21.12.2018
DRAWN	SYU	DATE	21.12.2018

DRAWING NO.

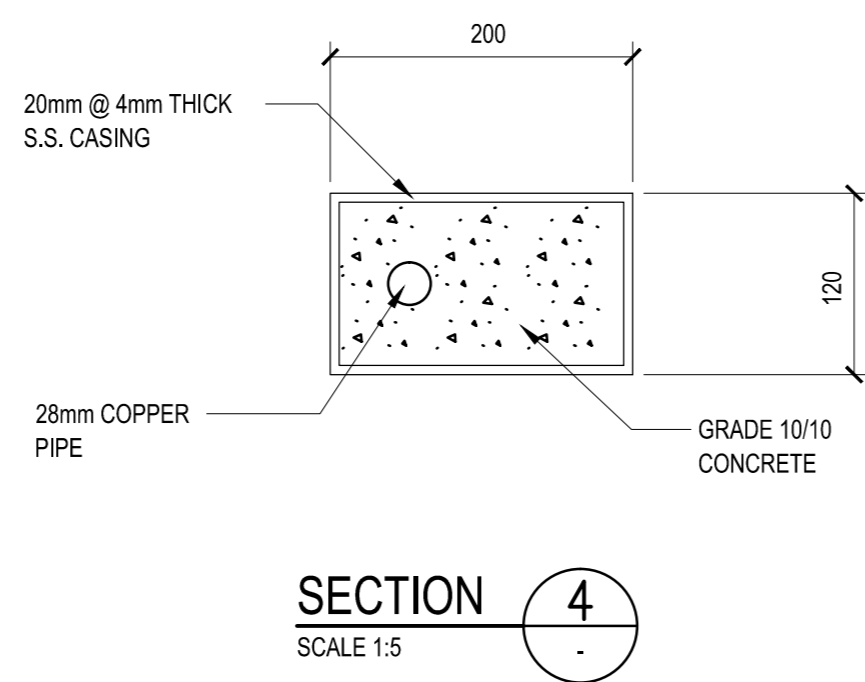
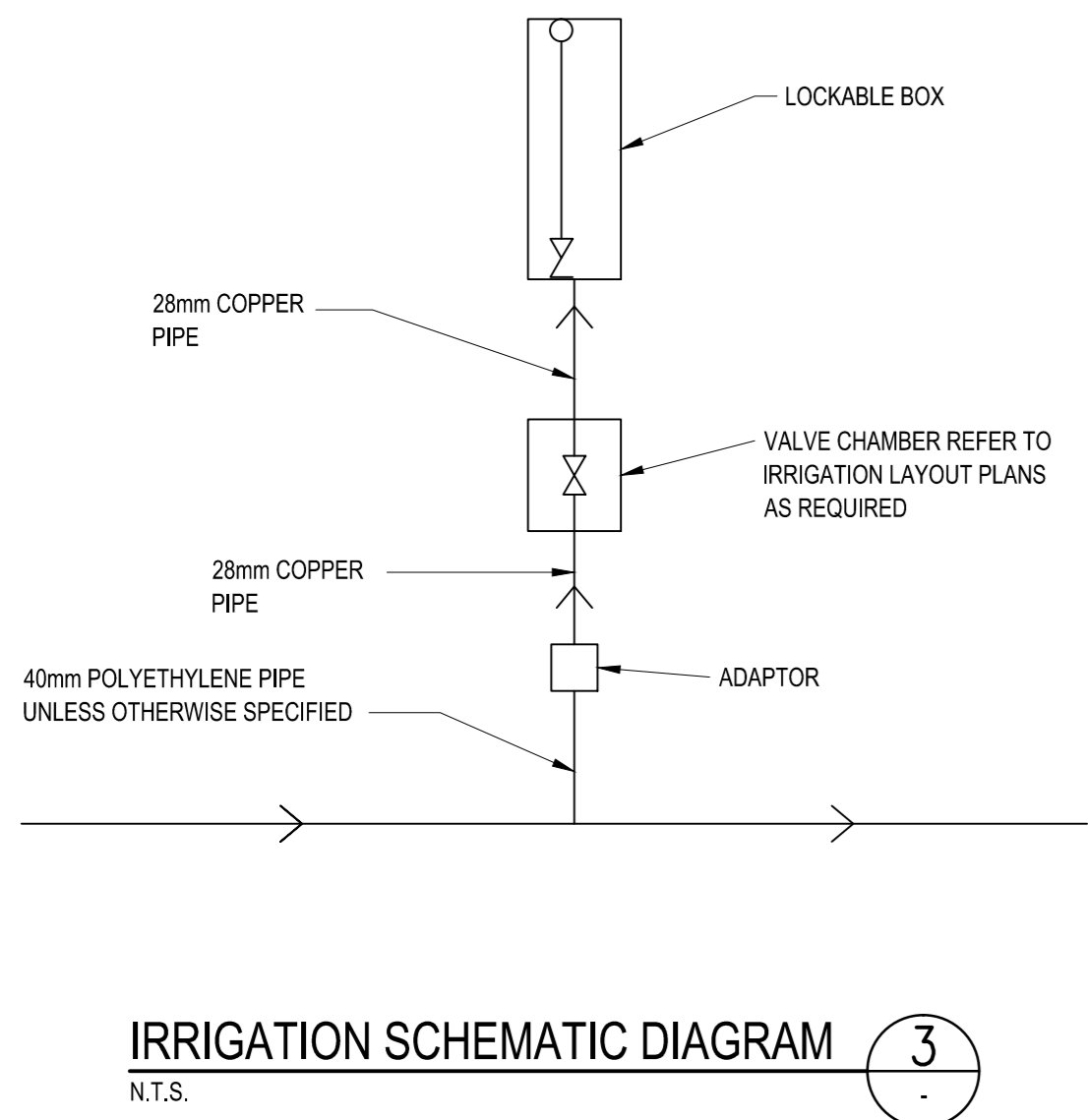
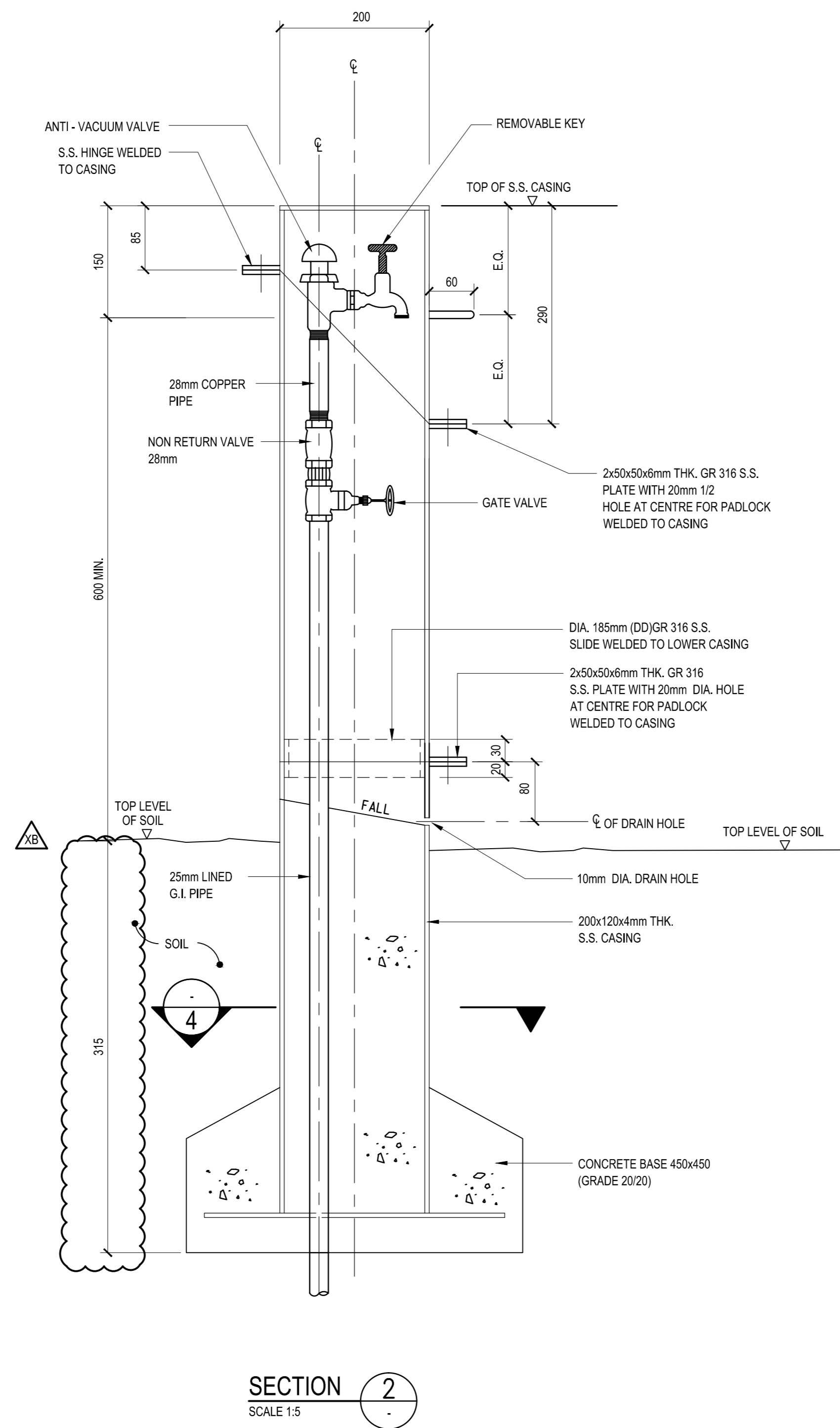
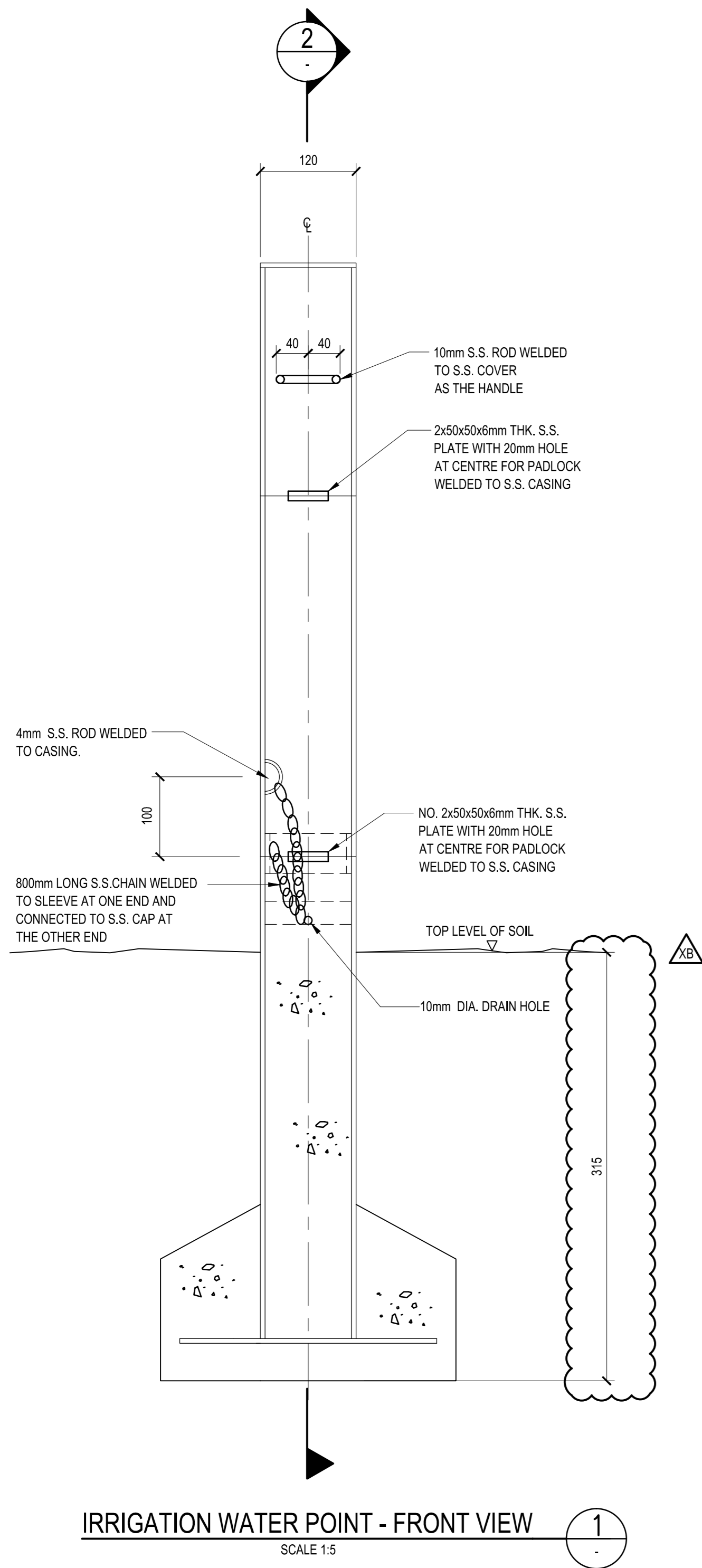
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XB1

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B.D. REF.

F.S.D. REF.

KEY PLAN

KEY PLAN

NO

05.10.2018

MC TENDER ADDENDUM NO.2

ARUP

XX

04.09.2018

MC TENDER

ARUP

REV.

DATE

DESCRIPTION

APPROVED

ARCHITECT / AP

ROCCO

ENGINEERING CONSULTANTS

ARUP

QUANTITY SURVEYOR

PLB

Rider

Levett

Ducknall

JOB TITLE

THE HONG KONG PALACE MUSEUM

DRAWING TITLE

MANUAL IRRIGATION POINT DETAILS

SCALE

AS SHOWN

PRINTED

A0

CHECKED

KY

DATE

05.10.2018

APPROVED

CL

DATE

05.10.2018

DRAWN

SYU

DATE

05.10.2018

CONTRACT NO.

DRAWING NO.

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REV.

XB

CAD REF NAME

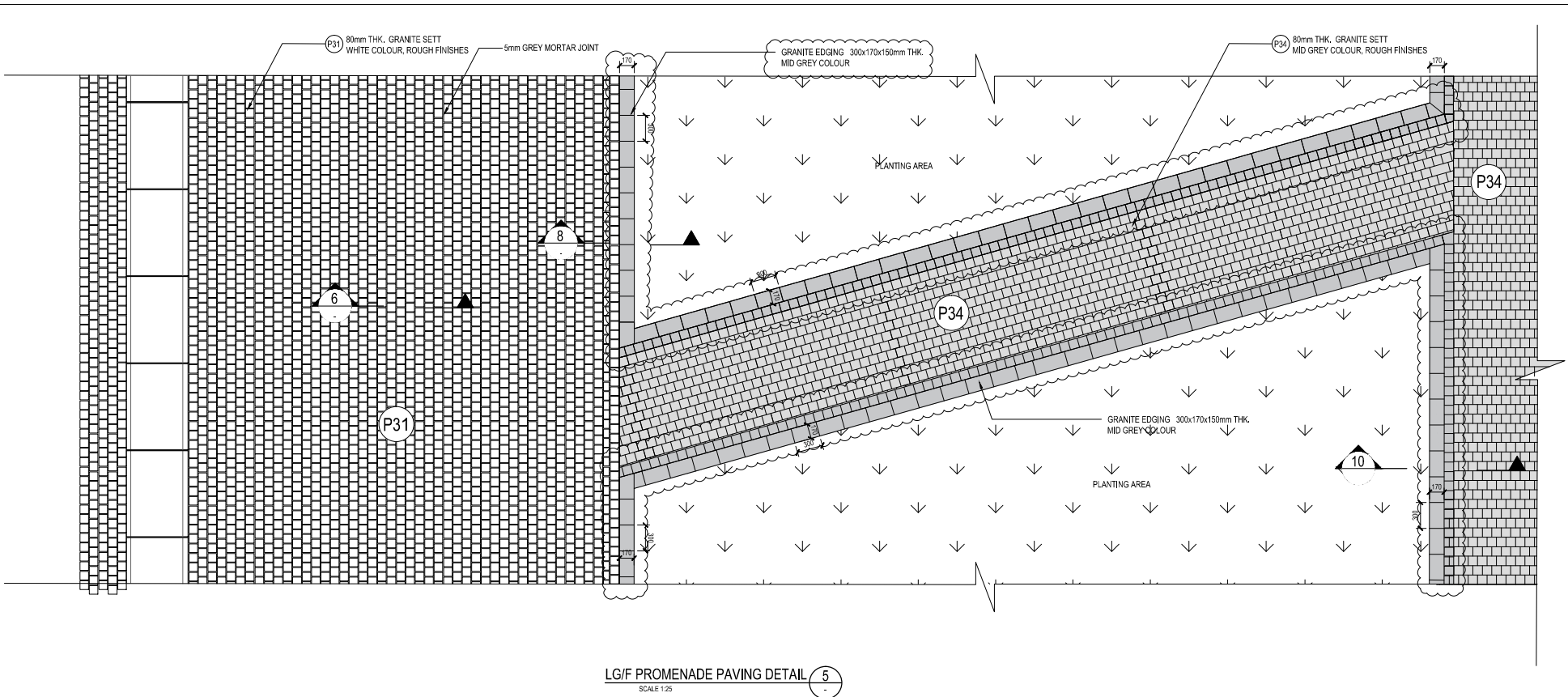
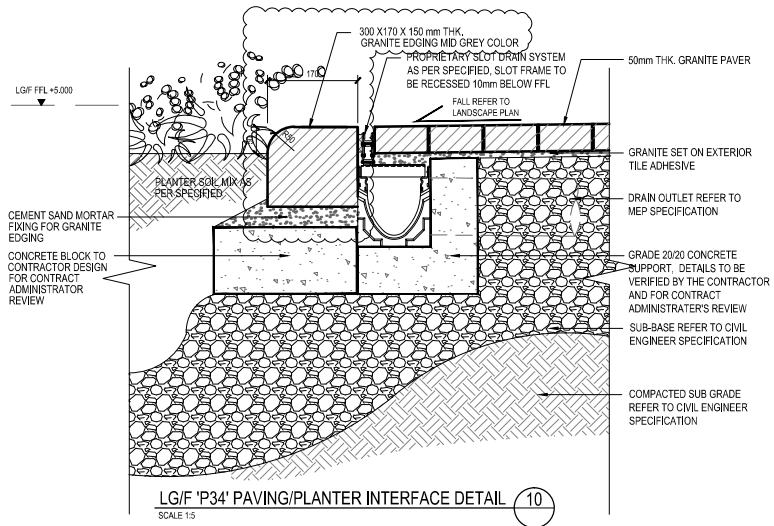
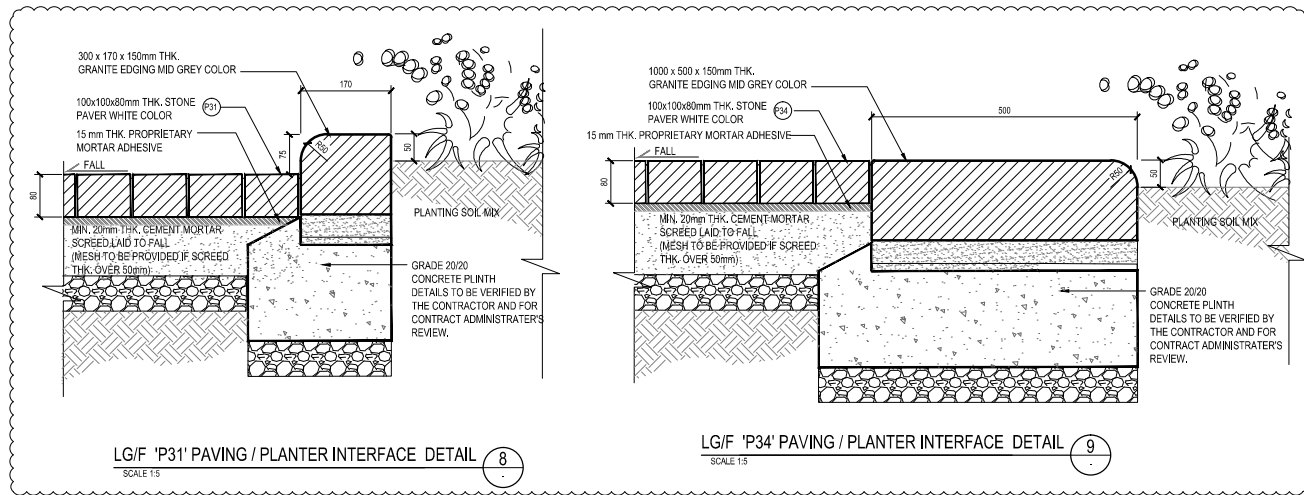
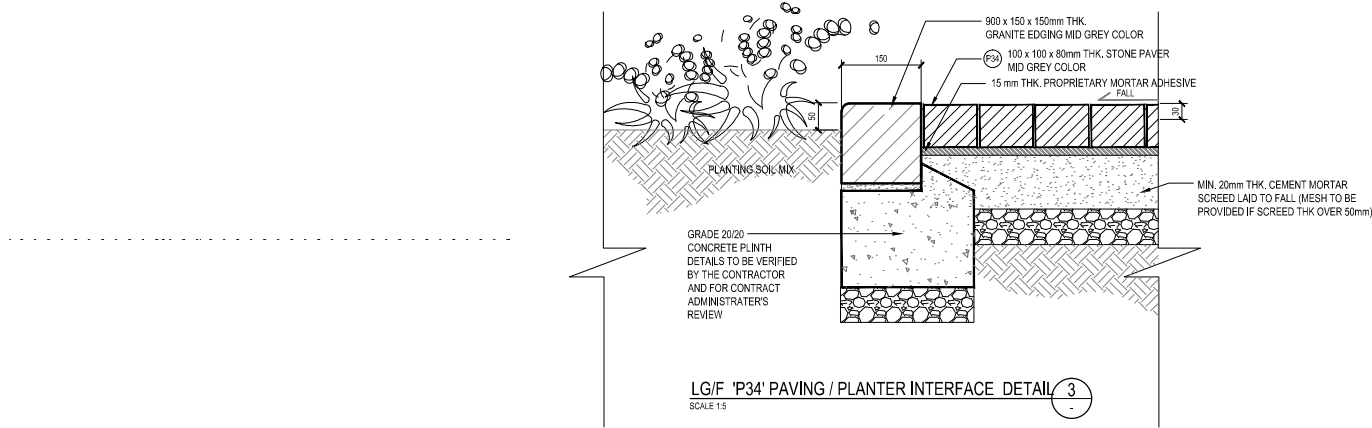
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R.O. REF.  
F.S.D. REF.  
KEY PLAN

NOTES:  
1. FOR LANDSCAPE HARDWORKS AND FINISHES PLAN, SHALL REFER TO DRAWING NO. 0446A-ARP-LAN-DWG-0301-P00-LLO-W53 TO 0446A-ARP-LAN-DWG-0321-P00-LLO-W53 SERIES.  
2. FOR MATERIAL DETAILS AND THICKNESS OF ROAD-BASE AND SUB-BASE SHALL REFER TO CIVIL ENGINEER'S DRAWING NO. 0446A-ARP-CIV-DWG-0303-P00-XXXX-W53.

REV.	DATE	DESCRIPTION	APPROVED
01	21.12.2018	ISSUE FOR PREPARATION	ARUP
02	24.02.2019	FOR TENDER	ARUP
03			
04			
05			
06			
07			
08			
09			
10			

ARCHITECT IAP

**ROCCO**  
許李

ENGINEERING CONSULTANTS

**ARUP**

QUANTITY SURVEYOR

**BLR** Rider Levett Bucknall

JOB TITLE

THE HONG KONG PALACE MUSEUM

DRAWING TITLE

LANDSCAPE PAVEMENT AND KERB EDGE DETAILS  
(SHEET 1 OF 5)

SCALE	AS SHOWN	PRINTED	A0
CHECKED	KY	DATE	21.12.2018
APPROVED	CL	DATE	21.12.2018
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CONTRACT NO.

DRAWING NO.

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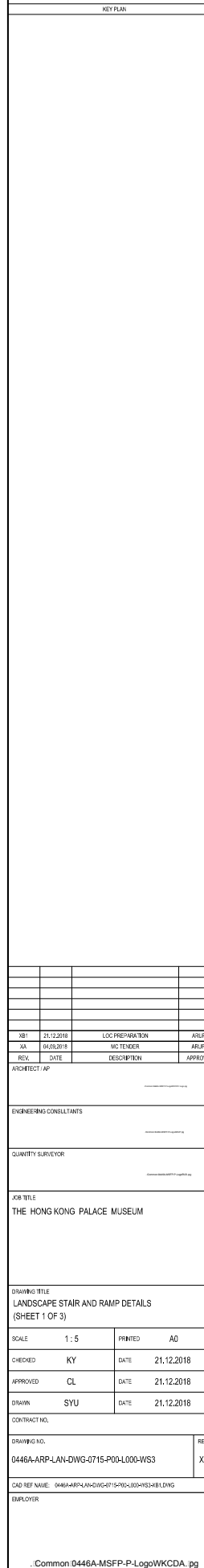
REV.

XB1

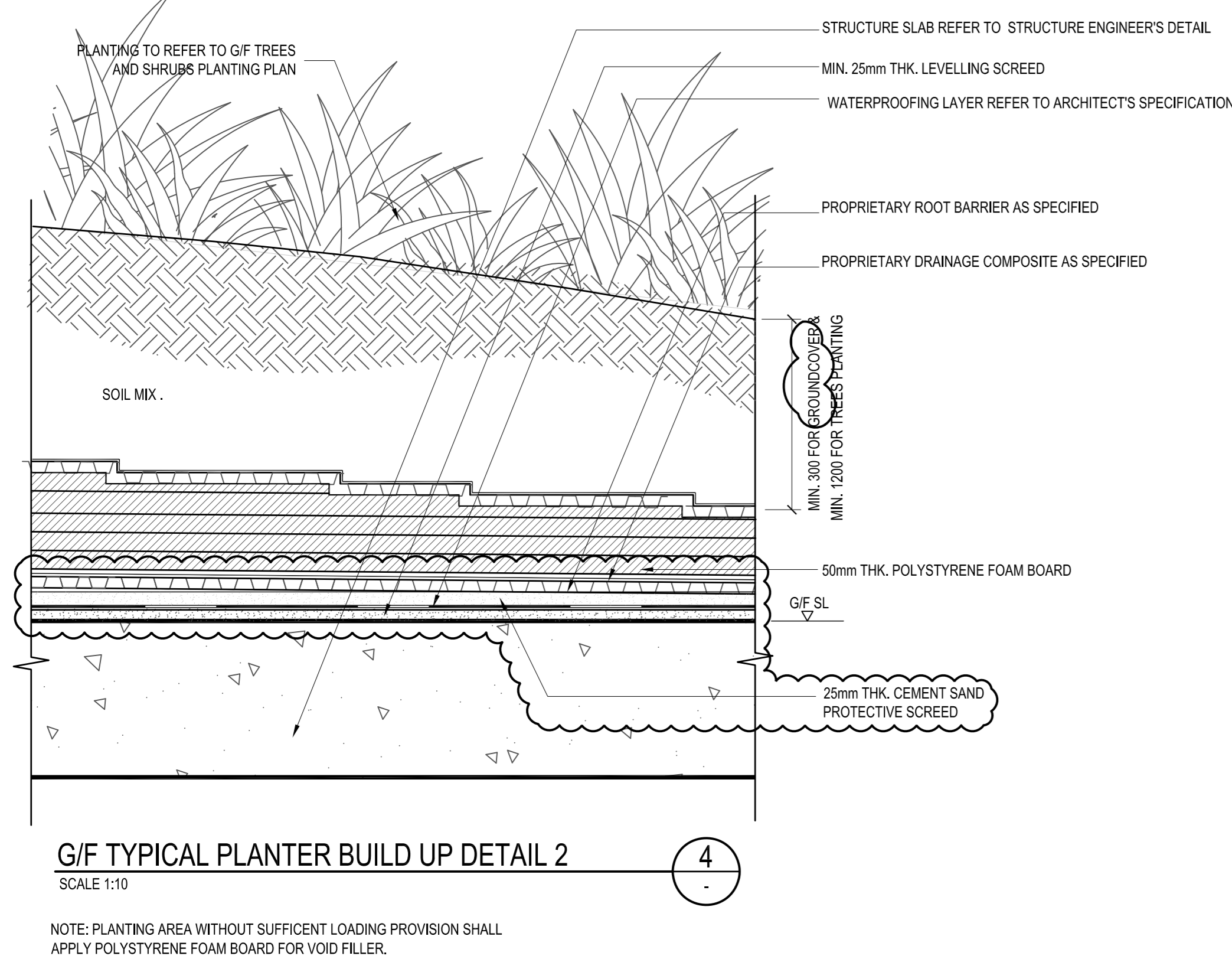
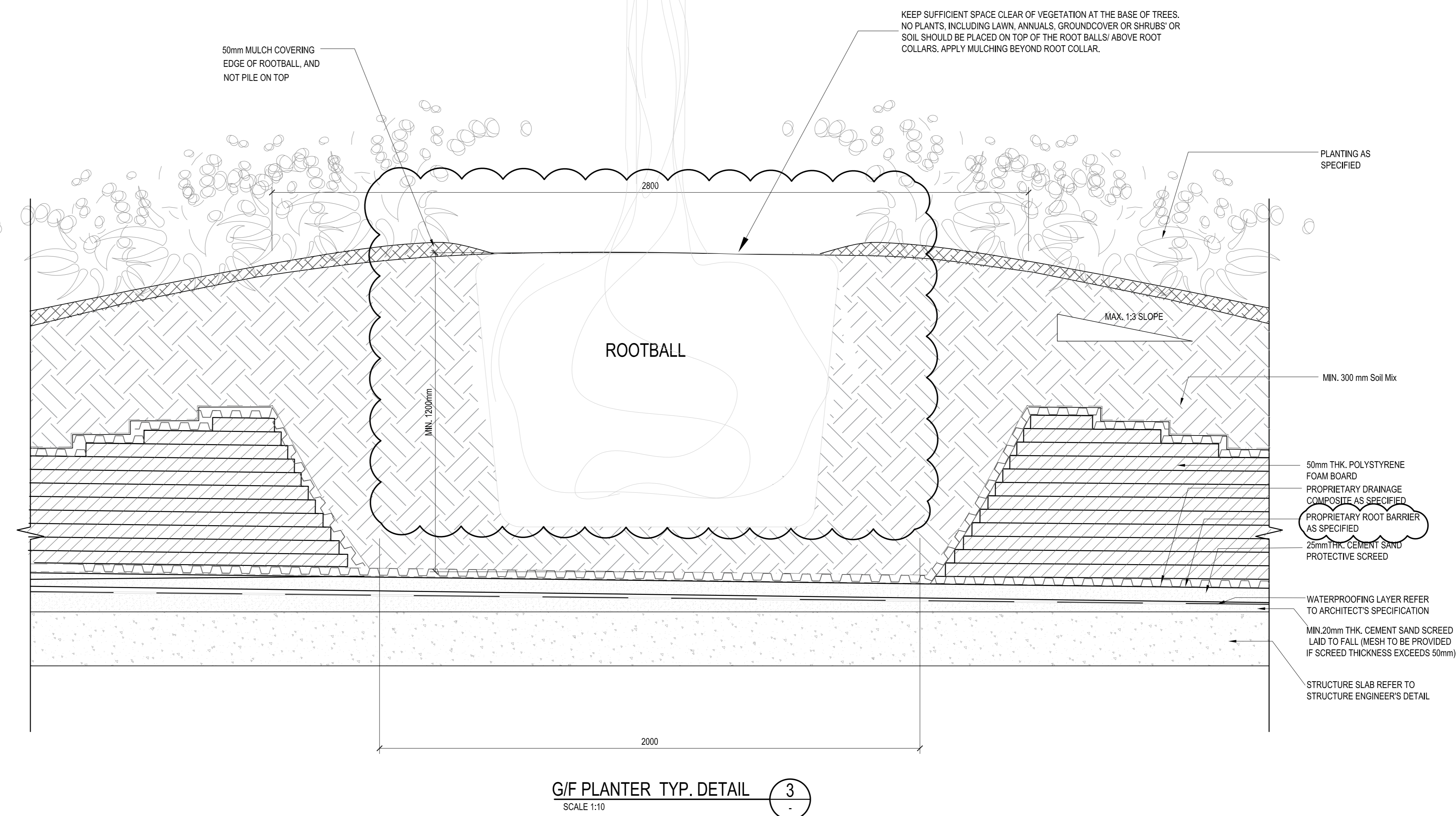
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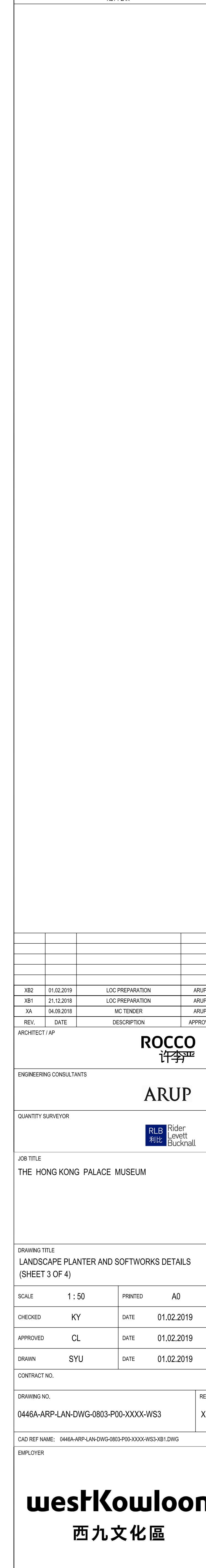
EMPLOYER

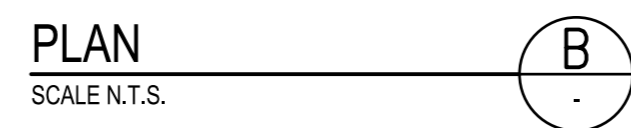
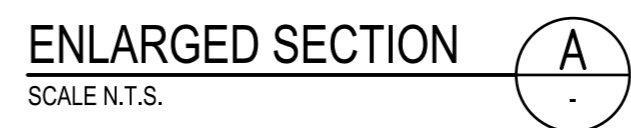
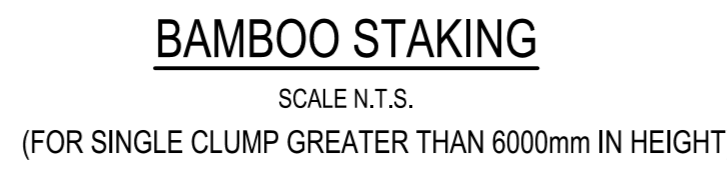
**westKowloon**  
西九文化區











ARCHITECT / AP

ROCCO  
许李

ENGINEERING CONSULTANTS

ARUP

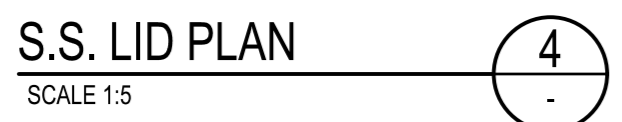
QUANTITY SURVEYOR

RLB  
利比

Rider  
Levett  
Bucknall

DRAWING NO.	REV.
0446A-ARP-LAN-DWG-0812-P00-XXXX-WS3	XA

**westKowloon**  
西九文化區

ARCHITECT / AP

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ENGINEERING CONSULTANTS

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QUANTITY SURVEYOR

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JOB TITLE
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THE HONG KONG PALACE MUSEUM

THE HONG KONG PALACE MUSEUM

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DRAWING TITLE  
GREEN ROOF DETAIL C

CONTRACT NO. \_\_\_\_\_

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DRAWING NO.	REV.
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0446A-ARP-LAN-DWG-0813-P00-XXXX-WS3	XA
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EMPLOYER

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## West Kowloon

100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0%

西九文化區

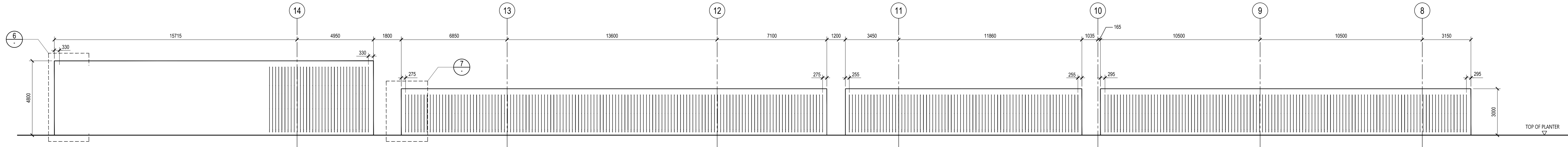
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RSE (FOR SIGNATURE)

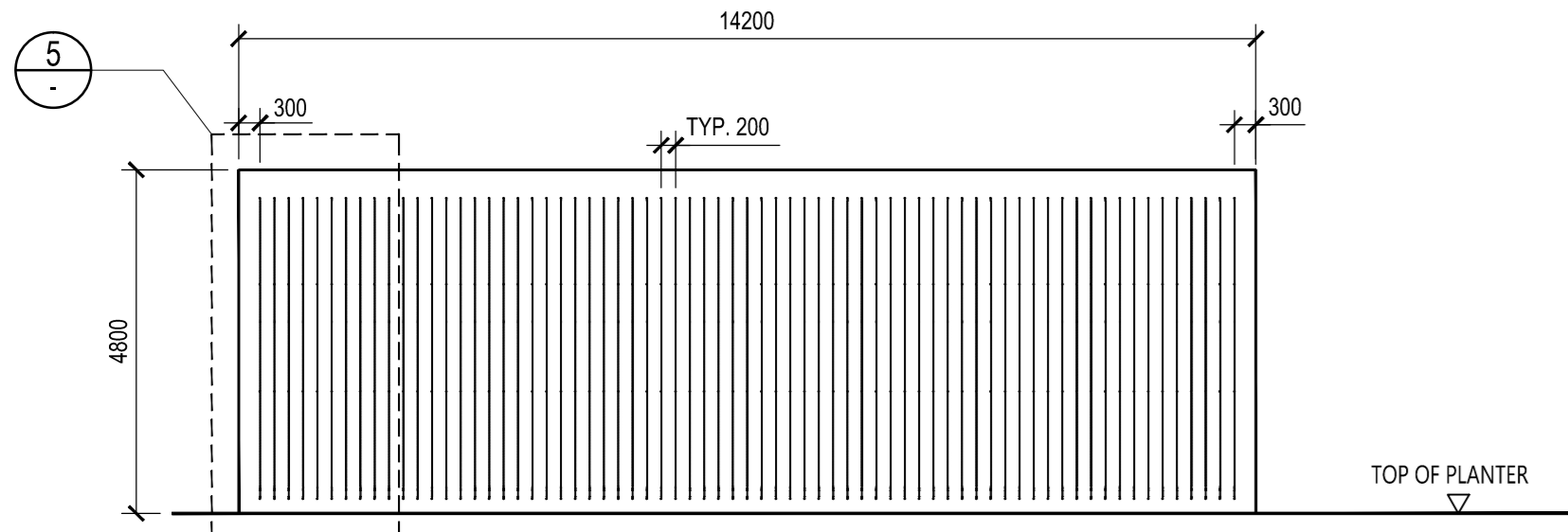
TSANG SAU CHUNG PAUL  
BEng CEng FHKIE FICE FInstrE RPE  
REGISTERED STRUCTURAL ENGINEER  
Registration NO. RSE 10187

**westKowloon**  
西九文化區



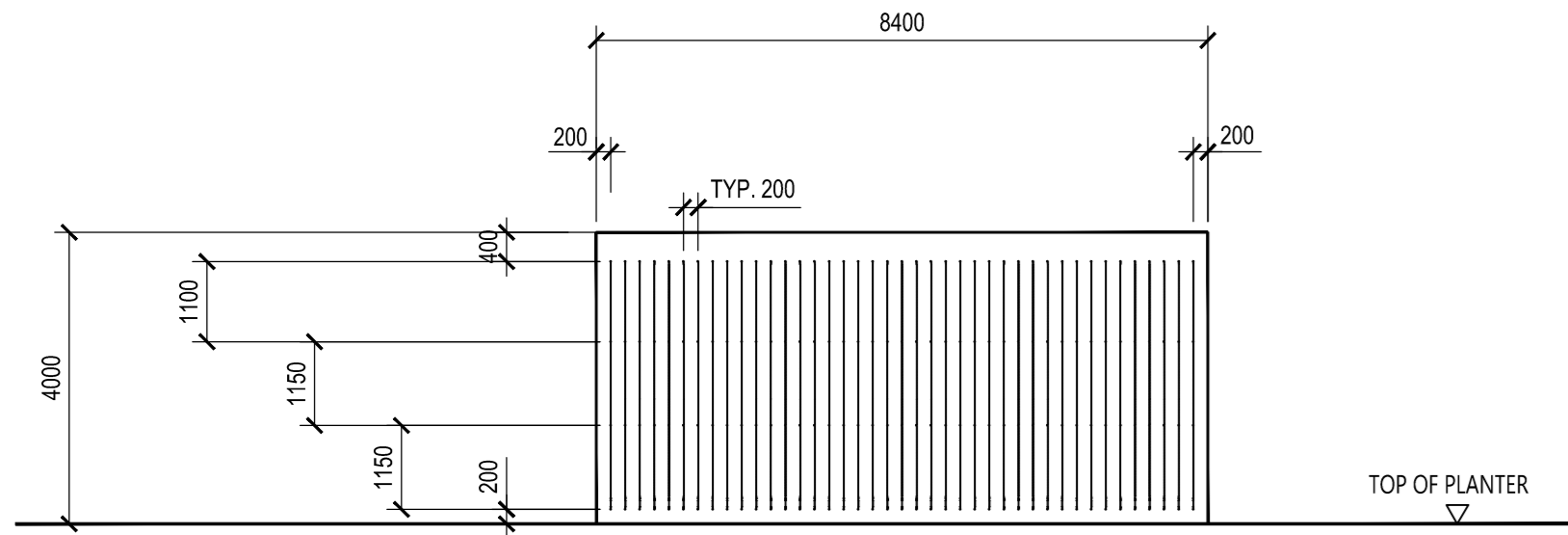
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SCALE 1:100



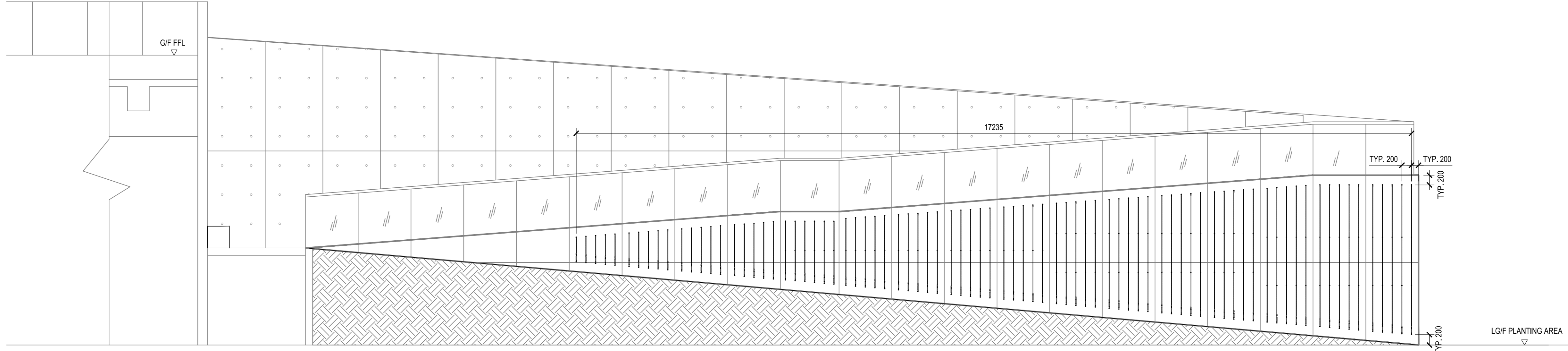
G/F FEATURE WALL (W2) VERTICAL GREEN ELEVATION 2

SCALE 1:100



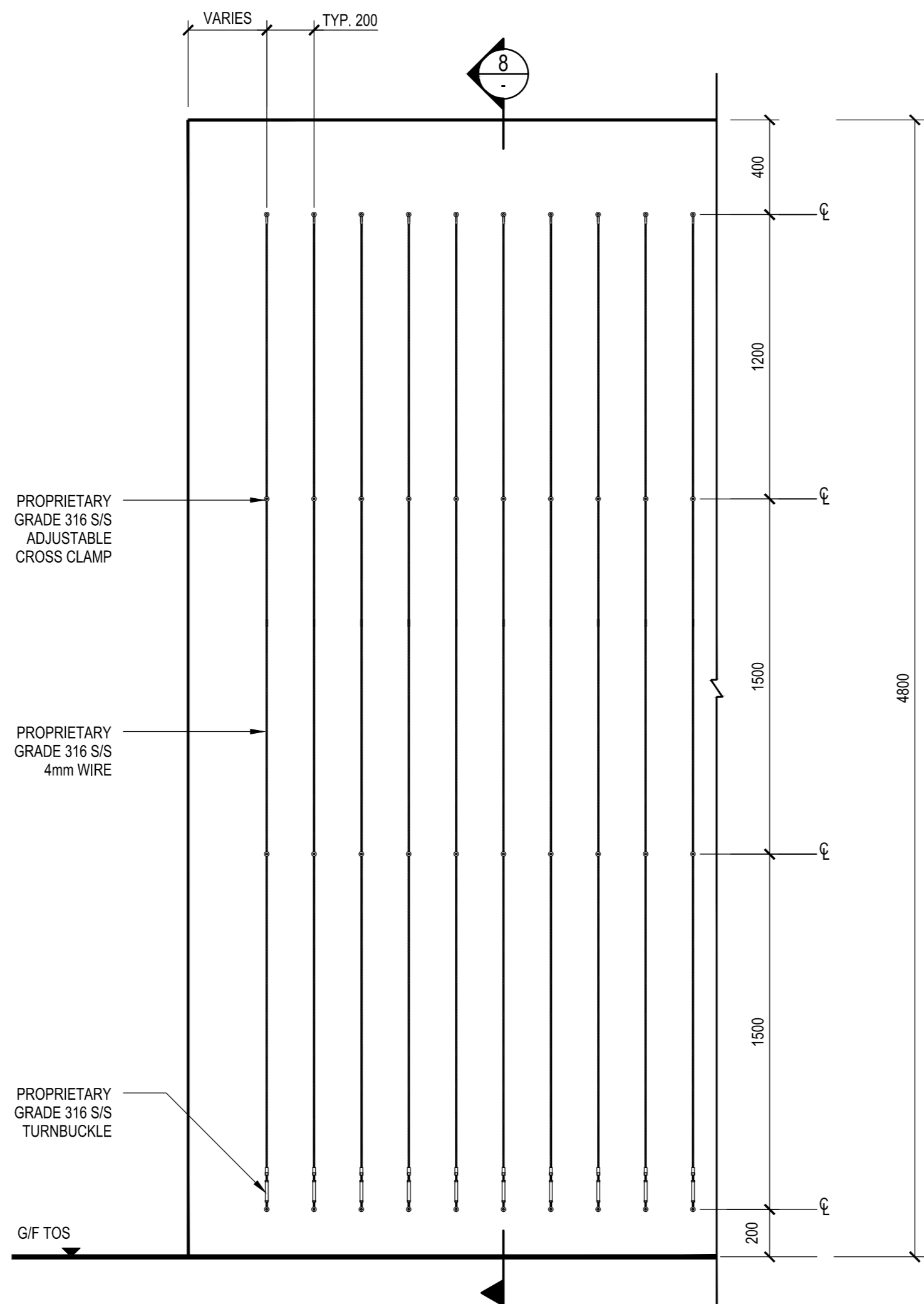
G/F INFORMATION/ TICKETING KIOSK VERTICAL GREEN ELEVATION 3

SCALE 1:100



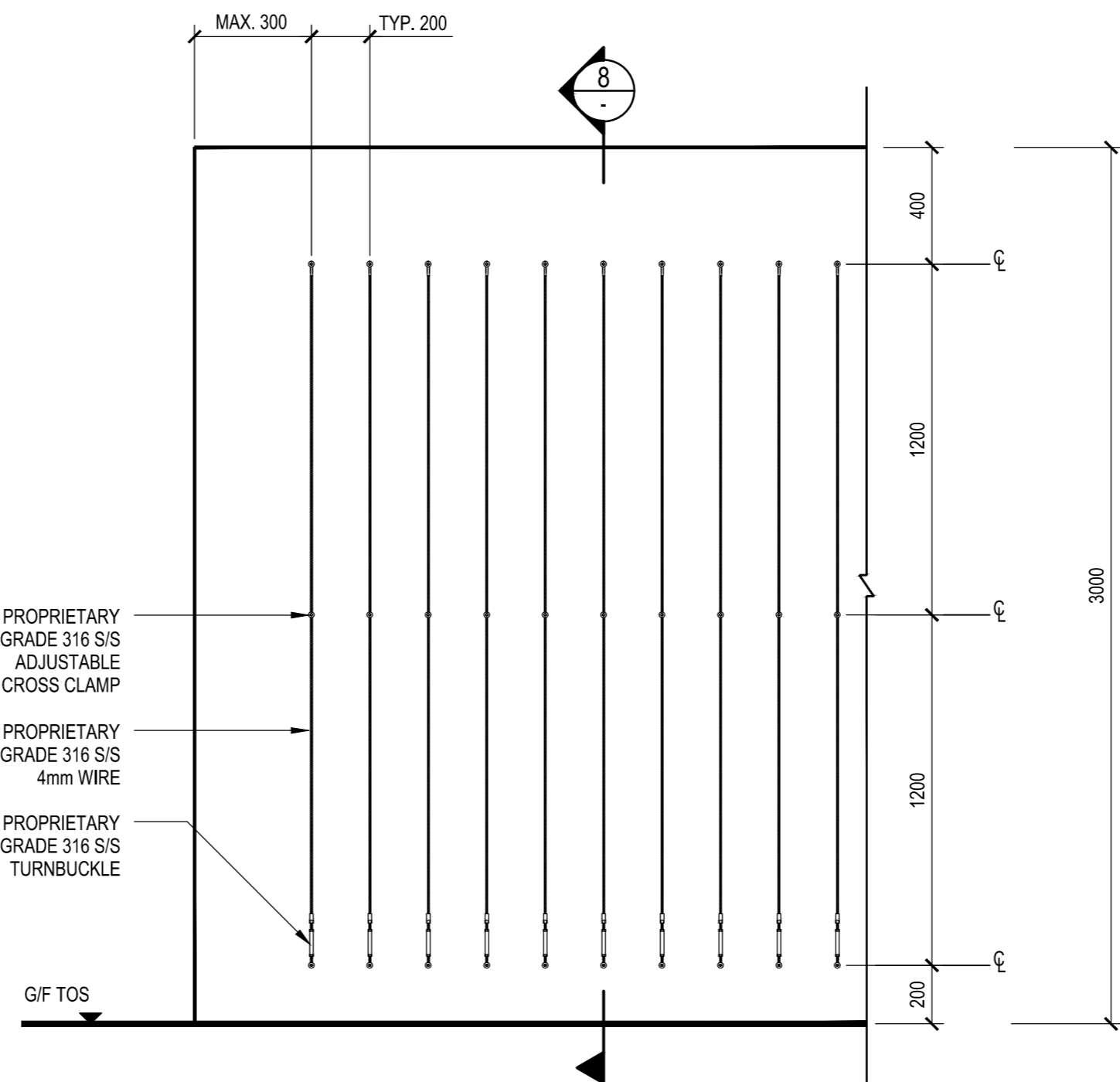
PARK RAMP VERTICAL GREEN WEST ELEVATION 4

SCALE 1:50



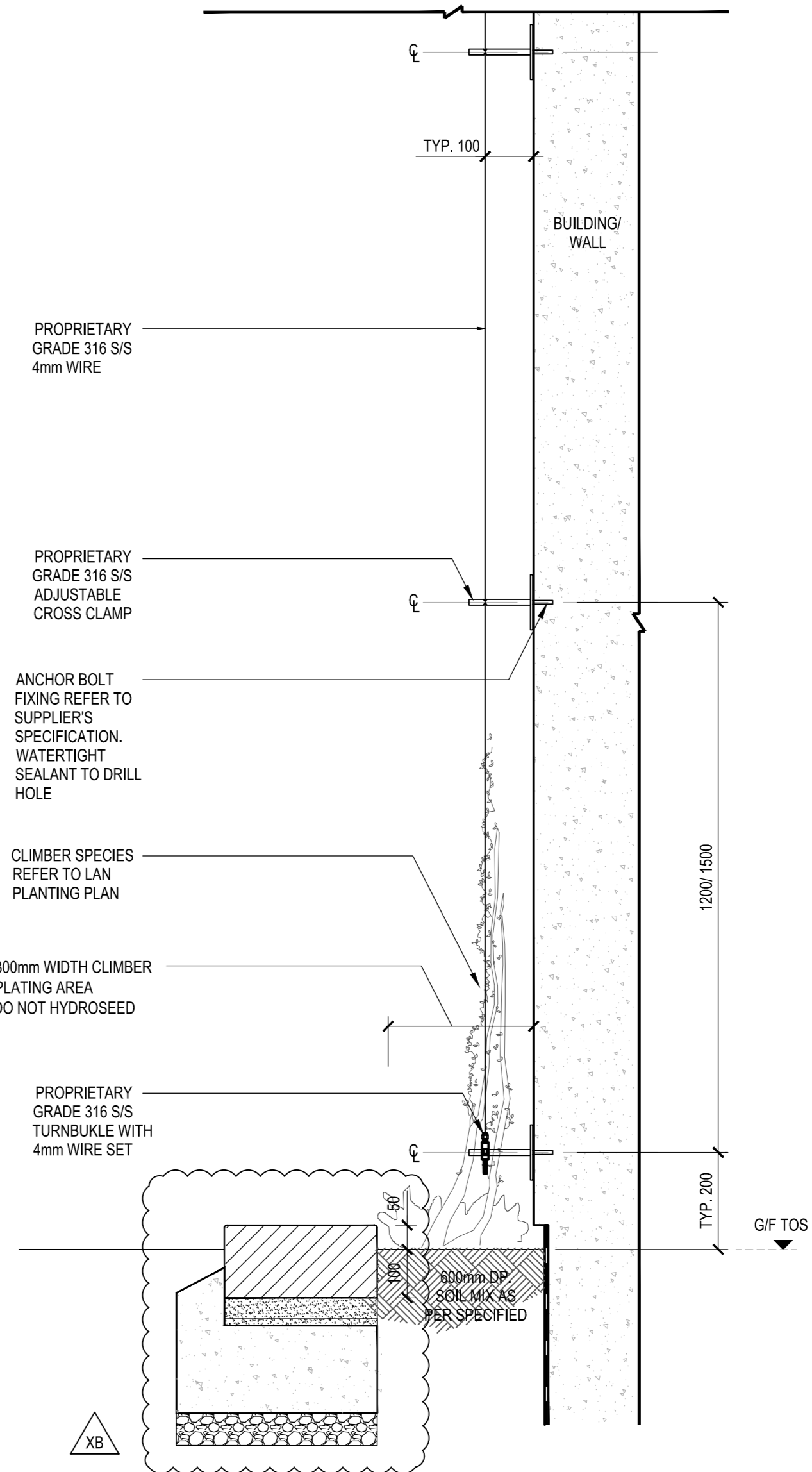
VERTICAL GREENING WIRE SYSTEM FOR CLIMBERS (4800 H WALL) 6

SCALE 1:20



VERTICAL GREENING WIRE SYSTEM FOR CLIMBERS (3000 H WALL) 7

SCALE 1:20



VERTICAL GREENING WIRE SYSTEM FOR CLIMBERS (TYP. SECTION) 8

SCALE 1:10

B.D. REF.

F.S.D. REF.

KEY PLAN

KEY PLAN

NO.	REV.	DATE	DESCRIPTION	APPROVED
XB	05.10.2018		MC TENDER ADDENDUM NO. 2	ARUP
XA	04.05.2018		MC TENDER	ARUP
REV.	DATE	DESCRIPTION	APPROVED	

ARCHITECT / AP

ROCCO

1423

ENGINEERING CONSULTANTS

ARUP

1423

QUANTITY SURVEYOR

RLB

Rider

Leung

Bucknall

JOB TITLE

THE HONG KONG PALACE MUSEUM

DRAWING TITLE

VERTICAL GREENING DETAILS

SCALE	N.T.S.	PRINTED	A0
CHECKED	KY	DATE	05.10.2018
APPROVED	CL	DATE	05.10.2018
DRAWN	SYU	DATE	05.10.2018

CONTRACT NO.

DRAWING NO.

0446A-ARP-LAN-DWG-0814-P00-XXXX-WS3

REV.

XB

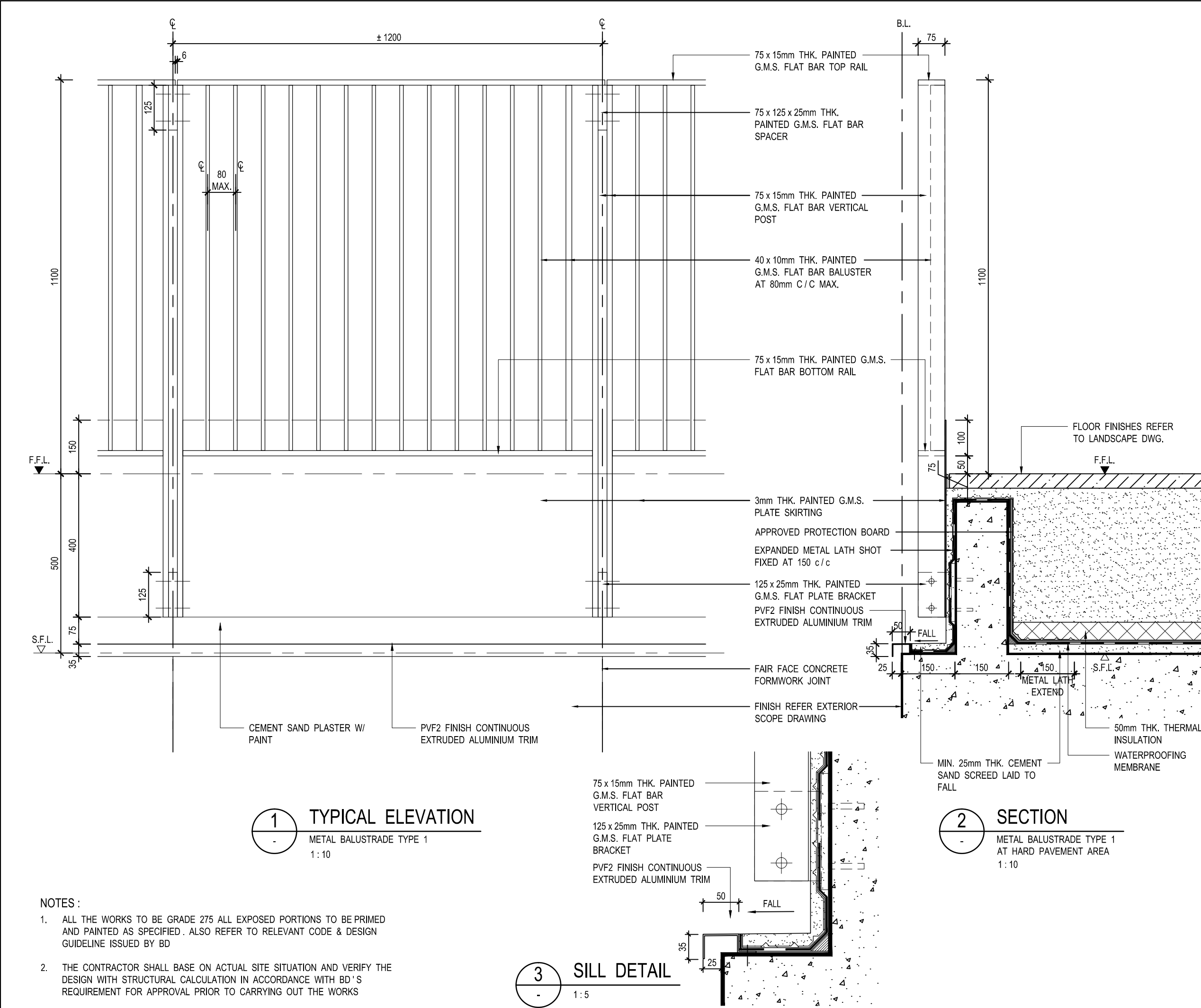
CAD REF NAME

0446A-ARP-LAN-DWG-0814-P00-XXXX-WS3.DWG

EMPLOYER

wesHKowloon

西九文化區



- NOTES :
- ALL THE WORKS TO BE GRADE 275 ALL EXPOSED PORTIONS TO BE PRIMED AND PAINTED AS SPECIFIED . ALSO REFER TO RELEVANT CODE & DESIGN GUIDELINE ISSUED BY BD
  - THE CONTRACTOR SHALL BASE ON ACTUAL SITE SITUATION AND VERIFY THE DESIGN WITH STRUCTURAL CALCULATION IN ACCORDANCE WITH BD'S REQUIREMENT FOR APPROVAL PRIOR TO CARRYING OUT THE WORKS

B.D. REF: 2/4042/17

F.S.D. REF: FP/8/27927 (J)

KEY PLAN

KEY PLAN

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XA	04-09-2018	MC TENDER	FH
REV.	DATE	DESCRIPTION	APPROVED

ARCHITECT / AP

ENGINEERING CONSULTANTS

QUANTITY SURVEYOR

JOB TITLE

THE HONG KONG PALACE MUSEUM

DRAWING TITLE

TYPICAL EXTERNAL BALUSTRADE DETAILS ( 1 )

SCALE	AS SHOWN	PRINTED	A3
CHECKED	AC	DATE	04-09-2018
APPROVED	FH	DATE	04-09-2018
DRAWN	MIC	DATE	04-09-2018

CONTRACT NO.

DRAWING NO.

0446A-RDA-ARC-DWG-4560-P00-XXXX-WS3

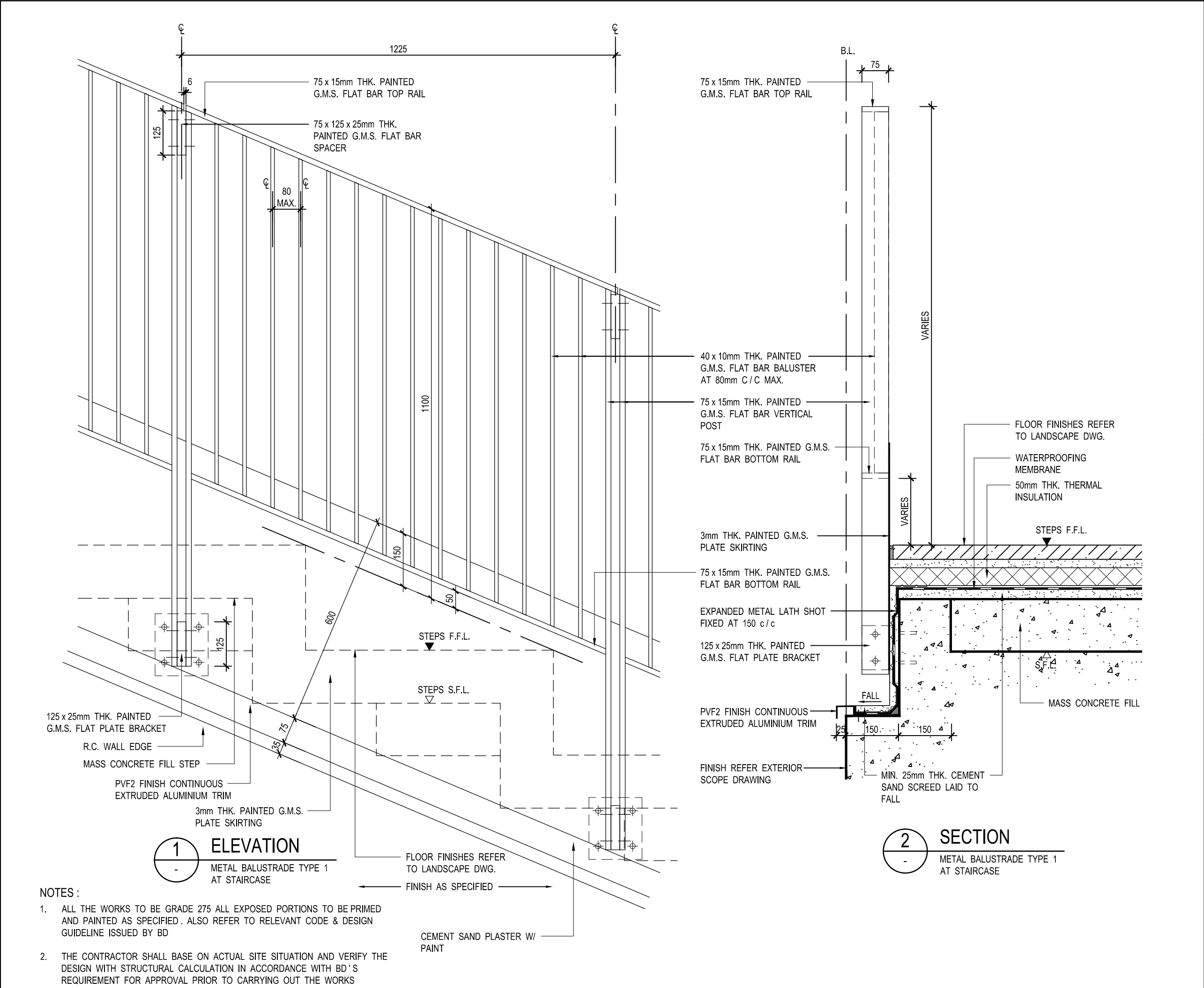
REV.

XA

CAD REF NAME: 0446A-RDA-ARC-DWG-4560-P00-XXXX-WS3.DWG

EMPLOYER

西九文化區



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- THE CONTRACTOR SHALL BASE ON ACTUAL SITE SITUATION AND VERIFY THE DESIGN WITH STRUCTURAL CALCULATION IN ACCORDANCE WITH BD 'S REQUIREMENT FOR APPROVAL PRIOR TO CARRYING OUT THE WORKS

B.D. REF: 2/4042/17

F.S.D. REF: FP/8/27927 (J)

KEY PLAN

KEY PLAN

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XA	04-09-2018	MC TENDER	FH
REV.	DATE	DESCRIPTION	APPROVED

ARCHITECT / AP

ENGINEERING CONSULTANTS

QUANTITY SURVEYOR

JOB TITLE

THE HONG KONG PALACE MUSEUM

DRAWING TITLE

TYPICAL EXTERNAL BALUSTRADE DETAILS ( 2 )

SCALE	1 : 10	PRINTED	A3
CHECKED	AC	DATE	04-09-2018
APPROVED	FH	DATE	04-09-2018
DRAWN	MIC	DATE	04-09-2018

CONTRACT NO.

DRAWING NO.

0446A-RDA-ARC-DWG-4561-P00-XXXX-WS3

REV.

XA

CAD REF NAME: 0446A-RDA-ARC-DWG-4561-P00-XXXX-WS3.DWG

EMPLOYER

西九文化區

**APPENDIX J**

WKCD Overall Master Plans, Submission Summary and Interfaces

B.D. REF: \_\_\_\_\_  
F.S.D. REF: \_\_\_\_\_

KEY PLAN

PROPOSED DEVELOPMENT

PARKING LOT

ROAD


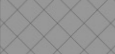







BUS STOP

EXISTING BUILDINGS

LANDSCAPING

WATER FEATURES

### LEGEND FOR TYPE OF GREENERY :

	= GREENERY AT PEDESTRIAN ZONE (UNDER PNAP APP-152 PARAGRAPH 18 TABLE 2)	
	= PARK GREENERY AT PEDESTRIAN ZONE (UNDER PNAP APP-152 PARAGRAPH 18 TABLE 2)	
	= PROMENADE GREENERY AT PEDESTRIAN ZONE (UNDER PNAP APP-152 PARAGRAPH 18 TABLE 2)	
	= OTHER GREEN FEATURES (UNDER PNAP APP-152 APPENDIX F TABLE 2)	
	= PARK OTHER GREEN FEATURES (UNDER PNAP APP-152 APPENDIX F TABLE 2)	
	= TERRACE GREENING (NOT WITHIN 15M FROM GROUND)	= OTHER GREEN AREA
	= SET BACK GREENINGS (NOT WITHIN 15M FROM GROUND)	
	= ROOF GREENING (NOT WITHIN 15M FROM GROUND)	
	= PROPOSED BUILDING OUTLINE	

CONTRACT NO.	
DRAWING NO. XXXXX-AUT-LAN-DWG-2371-P00-XXXX-WSX	REV. XA

**westKowloon**  
西九文化區