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Approved by	Mark Ng

Submission of Tree and Turf Grass Planting and Landscape Plans

1 OBJECTIVE AND PURPOSE OF THE REPORT

1.1.1 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 comply with the Condition of Approval under Section 8(3) of the EIA Ordinance.

This report is prepared for the Park Development for West Kowloon Cultural District only. Tree and Turf Grass Planting and Landscape Plans for other elements of the WKCD are provided under separate cover.

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2 INTRODUCTION

2.1.1 The West Kowloon Cultural District Authority (named "Authority" hereafter) is invested by the Government of 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 ("WKCDA") was established under the West Kowloon Cultural District Authority Ordinance ("WKCDA Ordinance"), Cap. 601, to develop the WKCD (named "the Site" hereafter).

The WKCD include:

- Planning, design and construction of 17 core arts and cultural facilities (CACF) (comprising 15 performing arts venues, a cultural institution with museum functions (M+) together with its off-site conservatory laboratory and storage facilities, and exhibition centre), other arts and cultural facilities (OACF), Retail, Dining and Entertainment (RDE) facilities, transport facilities and 23 ha public open space (which collectively constitute the "Capital Projects");
- ii) 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;
- 2.1.2 The Design Consultancy for the Park Development for WKCD was appointed in February 2015.

2.1.3 OVERALL LAYOUT PLAN



2.1.4 SUBMISSION BOUNDARY





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3 LANDSCAPE DESIGN CONCEPT

3.1 DESIGN VISION

The vision for the WKCD Park (the Park) is to create a quality green open space that would make Hong Kong proud, and to develop a waterfront park to inspire, promote and encourage cultural pursuits for all. The landscape park will provide a vibrant venue for open-air music, dance and theatre performances, as well as art exhibitions and other cultural programs. Attention has been paid to shaded areas and topographic variation in designing the park, providing pleasant environments and spacious lawns for leisure and relaxation. The Park will be a green oasis with mixed uses such as restaurants, public arts installations and outdoor event lawns. The area of the WKCD Park and associated promenade is about 13ha.

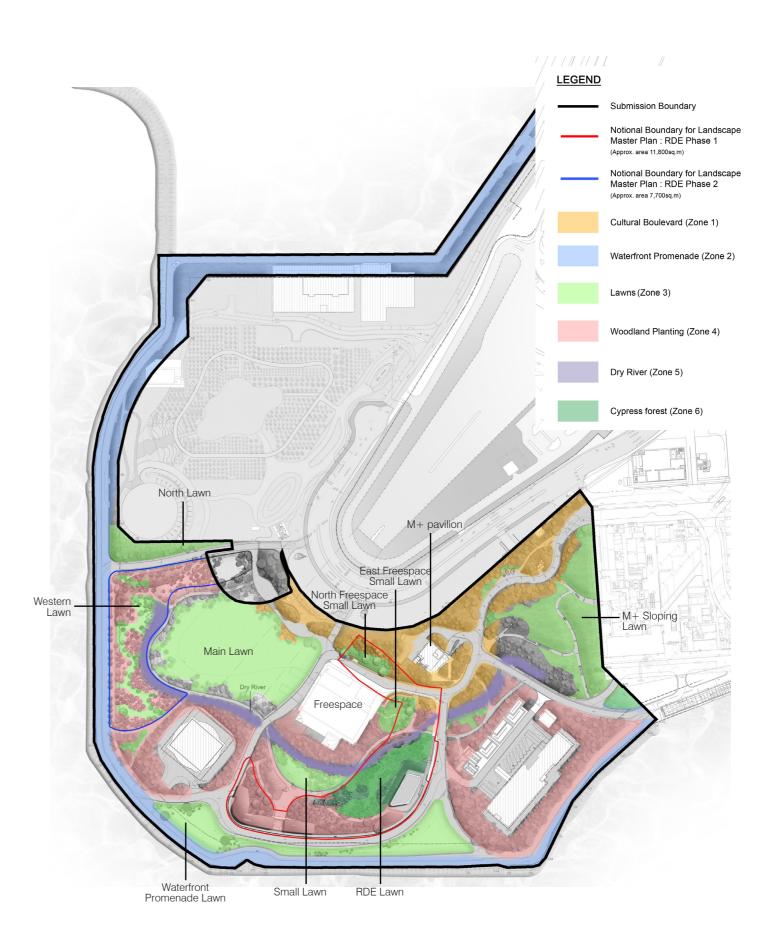
The WKCD park design approach for this performance landscape embodies the culture and magic of the urban forest that is inspired by the Hong Kong's urban forest. The design's vision reinvigorates the Main Lawn and elucidates visual connections between the retail dining and entertainment zone, the Freespace and the M+ museum.

The design scheme aims to provide a new physical connection between the cultural boulevard landscape and the Waterfront promenade. Recreational activities and events are fully embedded into the transformed setting.

3.2 OVERALL ZONING

Our design concept is categorized into six different zones which provide the users with different experiences.

- 3.2.1 **The Cultural Boulevard** creates a remarkable arrival experience. It is a crucial pedestrian linkage between the main arrival area, M+, M+ pavilion and the Freespace.
- 3.2.2 **The Waterfront Promenade** creates a new urban waterfront in West Kowloon. It provides a continuous link with large canopy trees.
- 3.2.3 **Lawns** provide venues for festival celebrations, recreational activities and art performances.
- 3.2.4 **Woodland Planting** provides a buffer between the interior lawns and cultural boulevard, and screens the existing ventilation buildings.
- 3.2.5 **Dry River** offers an iconic space where the canopy of the trees mimick natural river landscape and create a green dome and enclosed intimate space.
- 3.2.6 **Cypress Forest** creates a dense shaded space with an intimate character for park visitors.



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3.3 TREE AND TURF GRASS PLANTING FOR EACH ZONE

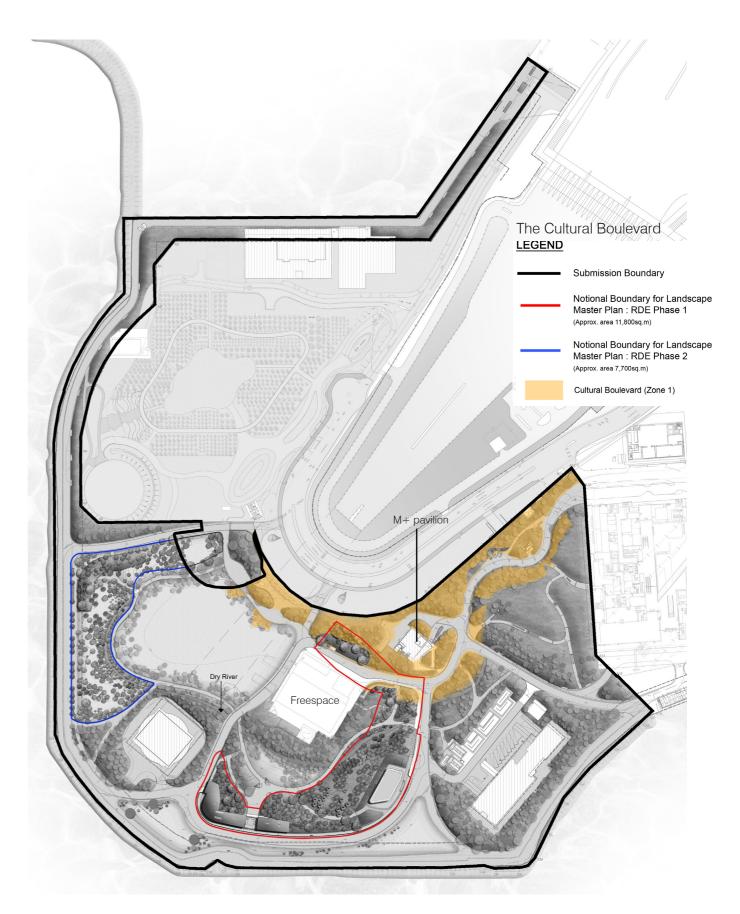
3.3.1 The Cultural Boulevard

Running east to west along the inner northern edge of the Park, the Cultural Boulevard provides a meandered pathway with shaded trees and shelters. It connects the Park to the WKCD Avenue at +12.7mPD level. It also provides linkage to various arts and cultural facilities within the Park, including the M+ pavilion, the Freespace (a Freespace Theatre and Outdoor Stage) and the Main Lawn. It will be the main pedestrian pathway within the park.

The Cultural Boulevard is a lush nature park with a maximum range of dense biotopes intersected by an aesthetic path system. As a result, the park provides an enjoyable experience of nature and the greatest sensuous variation of form, texture, scent, light & shadow and sound. It is an urban boulevard with diverse flowering trees, solitary shade trees and some exotic exceptions.

i) Trees - The Cultural Boulevard has a variety of shady and ornamental trees. Inter-planting of diverse trees forms a natural barrier, providing a sense of enclosure to soften the large building at the southern edges of the site. Native structural trees are selected. Ficus microcarpa and Ficus virens are the dominant canopy species chosen for their wide spreading crown and dense foliage upon maturity. These trees are common urban species in Hong Kong and play an important role in urban greening.

- ii) Lawns Refer to Section 3.3.3.
- iii) Shrub (for reference only) Shrubs species, including Camellia japonica, Rhododendron simsii (purple), Lantana montevidensis and Ixora chinensis are the dominant species along the pedestrian footpath. Those are rapid and vigorous species which thrive well in extreme conditions. Flower beds and ground cover areas create a strong sensation of seasonality, colors and textures.
- iv) See Appendix A for Tree Planting Plans, and Appendix B for Tree Planting Schedule.



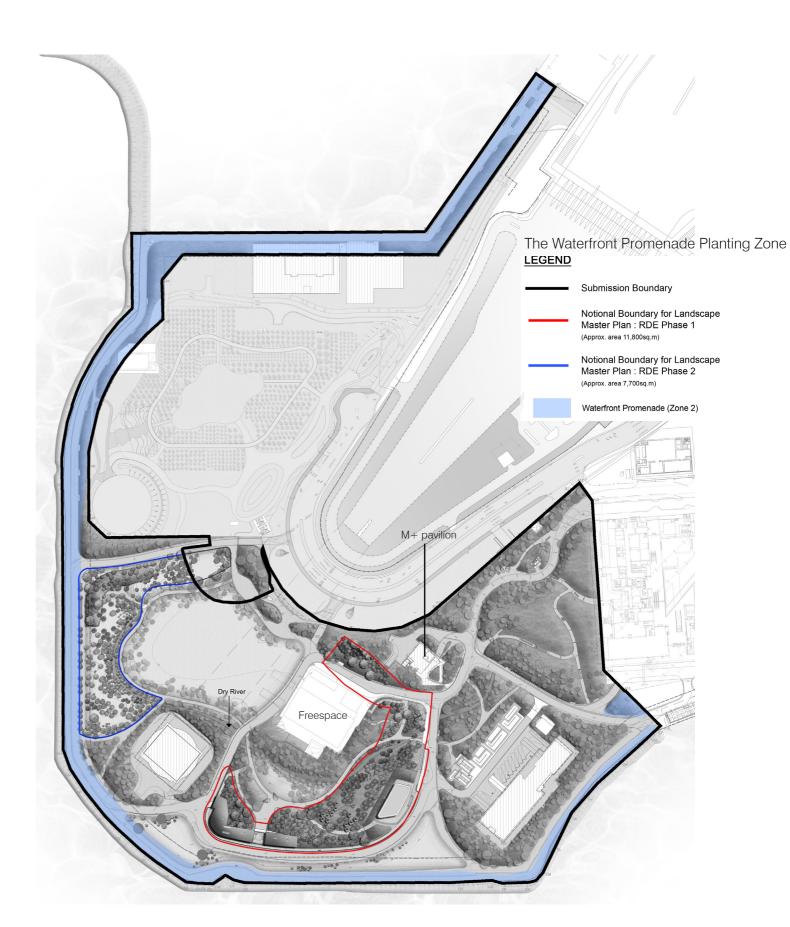
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3.3.2 The Waterfront Promenade

The Water Promenade runs along the outer water edge and connects to Waterfront Promenade Lawn on the southern side. It is a continuous waterfront promenade designed in accordance with the original planning intention. A number of pathways physically and visually connect the heart of the park with the promenade.

- i) Trees Feature trees with structural form are planted at regular intervals at the entry points of the Water Promenade. Species proposed for this zone comprise a number of salt tolerant Ficus microcarpa and Ficus virens. This planting choice also echoes structural tree planting of the Cultural Boulevard.
- ii) Lawns Refer to Section 3.3.3.
- iii) See Appendix A for Tree Planting Plans, and Appendix B for Tree Planting Schedule.



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3.3.3 Lawns

Lawns of different sizes are designated within the Park as leisure green open spaces and potential event venues. Lawns include the Main Lawn, Waterfront Promenade Lawn, Western Lawn, Small Lawn, North Lawn, North Freespace Small Lawn, East Freespace Small Lawn, M+ Sloping lawn, and RDE Lawn.

i) Tree

In order to create landscape vistas through the lawn areas, trees are vastly planted at the edges of the lawns. Groups of flowering and seasonal trees, such as *Tabebuia chrysantha*, *Tabebuia pentaphylla* and *Liquidambar formosana*, are selected for their visual interest. *Tabebuia* is chosen as it is a spectacular, moderate sized blooming tree. Root system is not aggressive and it grows well in confined areas.

Wodyetia bifurcata of various heights are proposed strategically on the Waterfront Promenade Lawn to allow sufficient space for flexible event uses. Several *Pongamia pinnata* and *Melia azedarach* are proposed as shade trees. The palms create an urban atmosphere and cast light shadow in contrast with the denser areas of the Park and allow light to penetrate the lawn below.

ii) Lawn / Grass

Three types of lawn species are chosen for their performances under anticipated lawn uses referring to expert advice of Dr. Eric Lee (Turf Specialist within the design team).

Main Lawn is the largest lawn designed with the capacity to host festival and public events. Large crowds of over 10,000 people may gather during an event. Hybrid Bermudagrass - Tifton 419 (Cynodon dactylon x C. transvaarensis cv. Tifway) is selected due to its high and fast recuperation rate, resistance to diseases, deep root system and ability to cope with relatively high wear and tear. Ornamental grasses, herbaceous and mix of native flowering shrubs are planted on the periphery of Main Lawn to hint the character of open grass vegetation of Hong Kong.

Waterfront Promenade Lawn is more flexibly designed for accommodating different stalls and events set ups. Seashore Paspalum (*Paspalum vaginatum*) is proposed as the area is exposed to sea-laden winds and salt spray. This species is tolerant to sea-side environments.

Western Lawn, Small Lawn, North Lawn and **M+ Sloping Lawn** also allow various leisure and event opportunities of smaller scales. Korean Grass (*Zoysia japonica*) is selected as some of these areas are beneath semishaded tree canopies. This species is relatively tolerant to shade than

other grass species. It has high wear and tear tolerance towards medium pedestrian traffic.

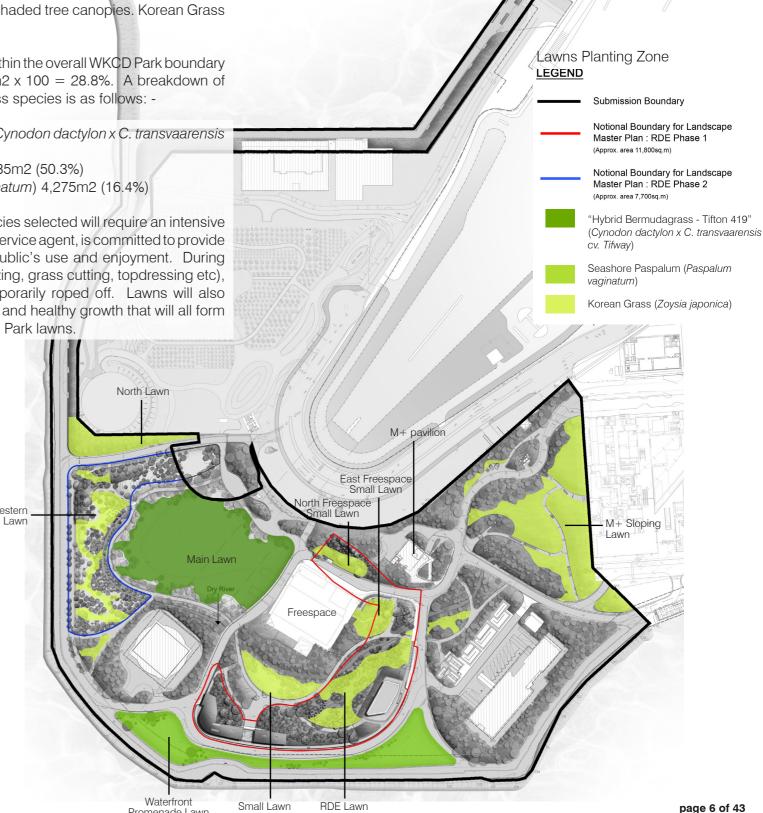
North Freespace Small Lawn, East Freespace Small Lawn, and **RDE Lawn** are relatively small and also under semi-shaded tree canopies. Korean Grass (*Zoysia japonica*) is also used.

The percentage of grass coverage (within the overall WKCD Park boundary of 90,576m2) is $26,100m2 / 90,576m2 \times 100 = 28.8\%$. A breakdown of total grass coverage by different grass species is as follows: -

"Hybrid Bermudagrass - Tifton 419" (Cynodon dactylon x C. transvaarensis cv. Tifway) 8,690m2 (33.3%)

Korean Grass (*Zoysia japonica*) 13,135m2 (50.3%) Seashore Paspalum (*Paspalum vaginatum*) 4,275m2 (16.4%)

All lawn areas, irrespective of the species selected will require an intensive maintenance regime. WKCDA, or its service agent, is committed to provide regular upkeep of all lawns for the public's use and enjoyment. During regular maintenance (weeding, fertilizing, grass cutting, topdressing etc), lawns will be sectioned off and temporarily roped off. Lawns will also require "resting periods" for recovery and healthy growth that will all form part of the "normal" operations of the Park lawns.



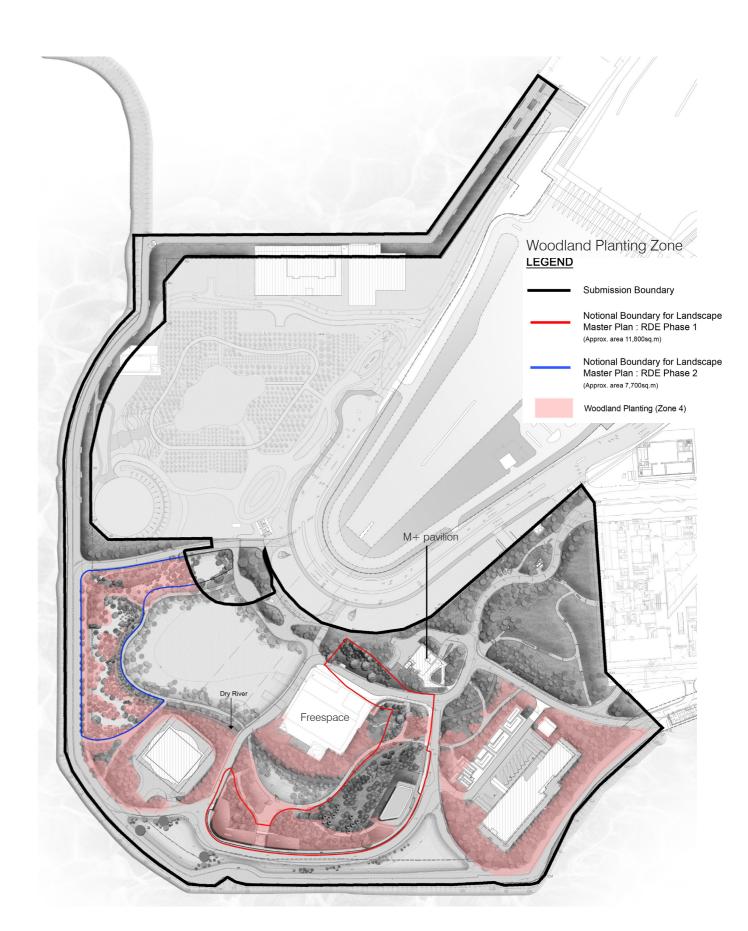
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3.3.4 Woodland Planting

Woodland planting is located in shaded areas of the Park. Rich subtropical plants with colored, large leaves and flower as well as diverse textures dominate this zone. They reflect the character of lush, humid and subtropical valleys with natural and serene ambiance. The term "woodland planting" is to describe the "character" and "ambience", and is not literal or used as arboricultural terminology.

- i) Tree This area is characterized by a mix of umbrella-shaped trees with large leaves, which create a high degree of shade. Species proposed include *Cinnamomum camphora*, *Ficus virens*, *Pterocarpus indicus*, *Sapindus sapanoria* and *Terminalia catappa*. These provide a lush subtropical atmosphere
- ii) Shrub (for reference only) Shrubs and groundcovers are mixed to create heterogeneous textures. Shrub planting mainly comprises *Fagraea* ceilanica, *Rhapis humilis*, *Livistona chinesnsis* and *Musa acuminata*.
- iii) Lawns Refer to Section 3.3.3.
- iv) See Appendix A for Tree Planting Plans, and Appendix B for Tree Planting Schedule.



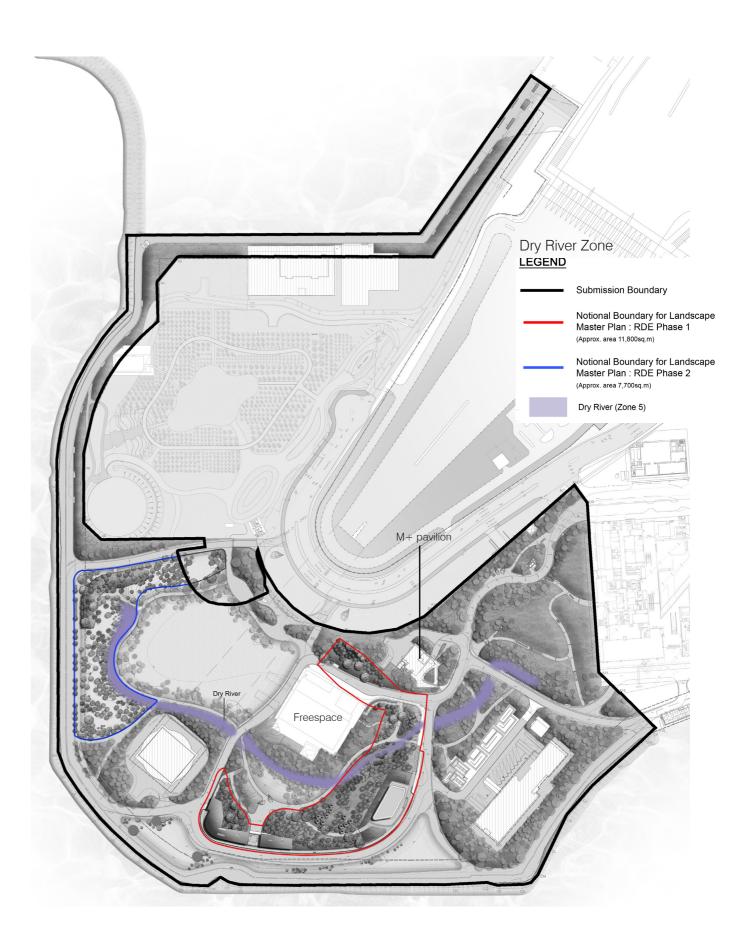
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3.3.5 Dry River

Dry river comprises river bedding rocks of various sizes. It mimicks natural landscape feature and creates an iconic space. In moments of heavy rain, water flows naturally along the Dry River to drainage outlets.

- i) Tree Canopy trees are planted along the Dry River to create an intimate space in the river landscape. Species includes *Ficus variegata*, *Cinnamomum camphora*, *Celtis sinensis* and *Dracaena draco*.
- ii) Shrub (for reference only) Dry River vegetation contains shrubs species of different calibers and heights, which include *Iris tectorum ssp.* (*Light Blue*), *Iris tectorum ssp.* (*Blue*), *Iris tectorum ssp.* (*Light Purple*) and *Iris tectorum ssp.* (*purple*).
- iii) Lawns Refer to Section 3.3.3.
- iv) See Appendix A for Tree Planting Plans, and Appendix B for Tree Planting Schedule.



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3.3.6 Cypress Forest

Cypress Forest is densely planted with trees of contrasting textures and trees with autumn colours. It is an intimate space in sloped areas. The term "forest" is to describe the "character" and "ambience", and is not literal or used as arboricultural terminology. The sense of "forest" is created by groups of (for instance 25 no.s) trees of the same genus and species, which form a strong impression in urban setting.

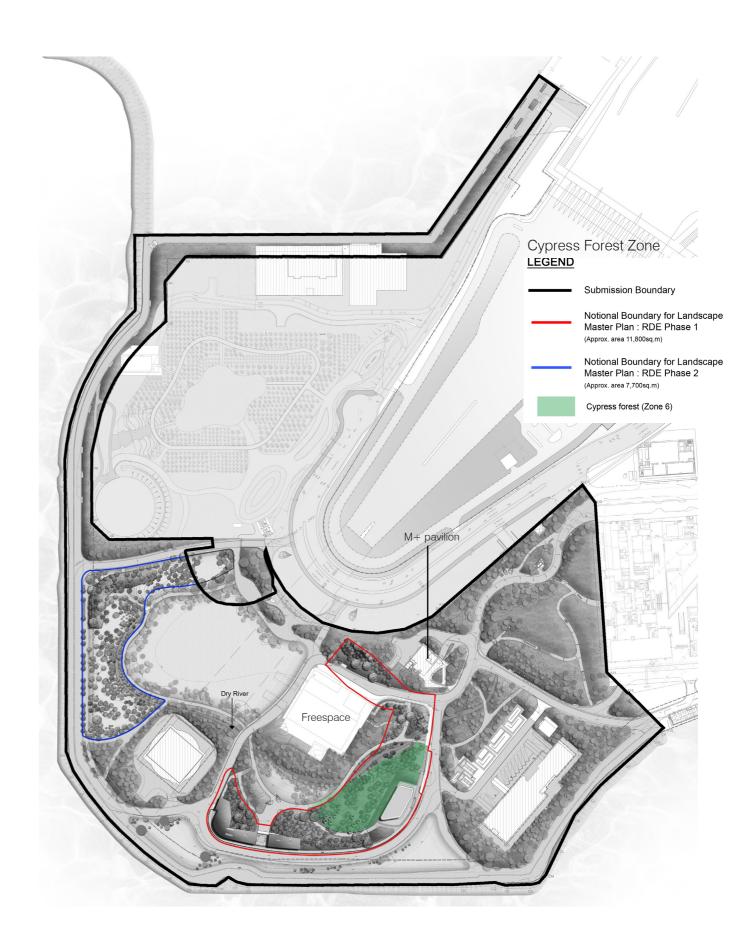
- i) Tree Taxodium distichum is the dominate tree in this zone. Although Taxodium distichum naturally occurs in swappy conditions, it is placed on the north facing downslope behind the RDE 1-3 building in order to create an ambience of cypress forest.
- ii) Lawns Refer to Section 3.3.3.
- iii) See Appendix A for Tree Planting Plans, and Appendix B for Tree Planting Schedule.

3.4 Conclusion

The percentage of grass coverage within the overall WKCD Park boundary 28.8%

A total of 118 different tree species are proposed. 1124 no.s of tree are "Native", 564 no.s of tree are "Domesticated" and 668 no.s of tree are "Exotic.

71.65 % of the trees are local species or domesticated species.



TREE AND TURF GRASS PLANTING AND LANDSCAPE DESIGN

4. APPENDICES

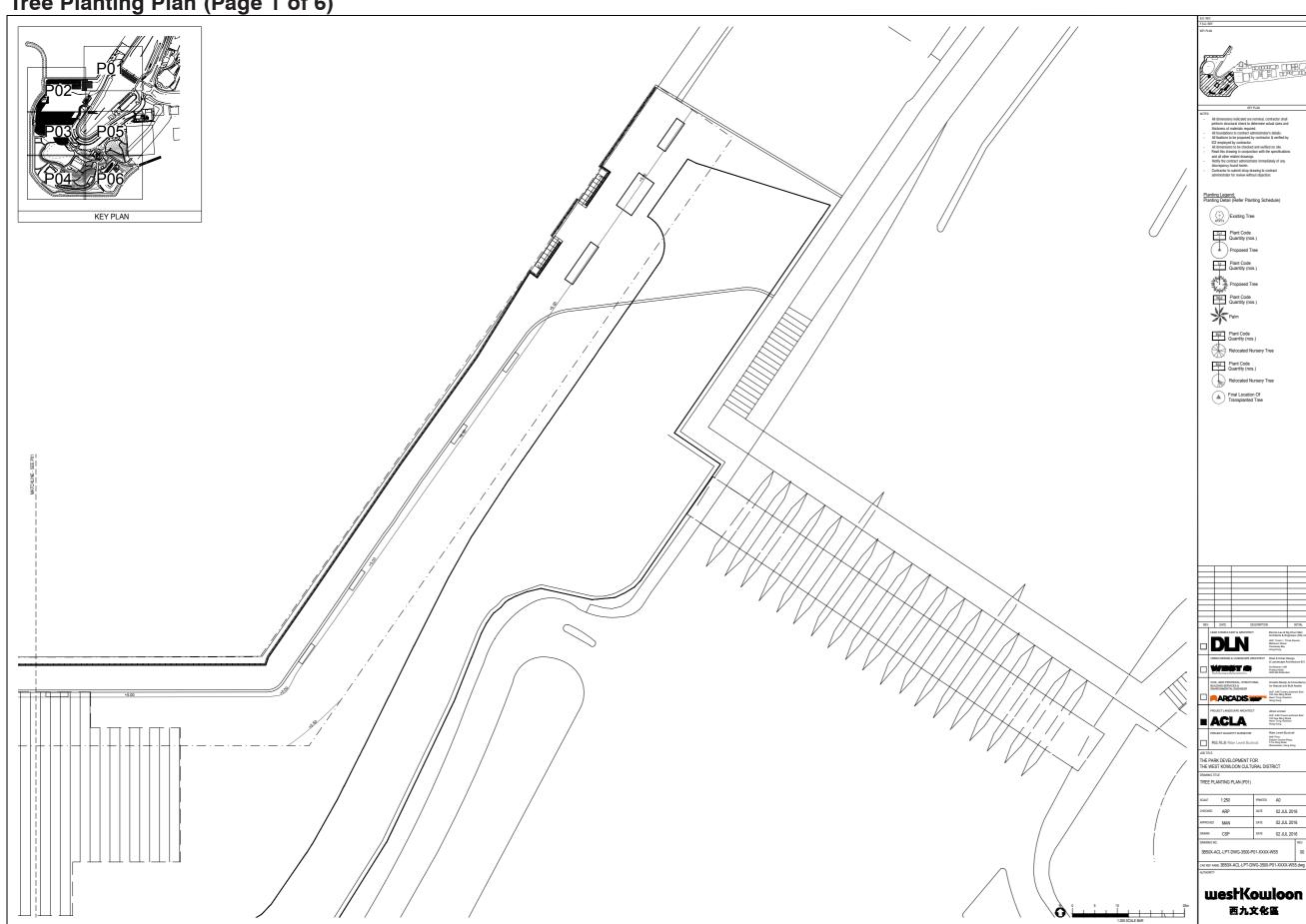
APPENDIX A	TREE PLANTING PLANS
APPENDIX B	TREE PLANTING SCHEDULE
APPENDIX C	POST-PLANTING CARE PLAN
APPENDIX D	TREE PRUNING SCHEDULE
APPENDIX E	CONCEPTUAL LANDSCAPE PROPOSAL (For Reference Only)

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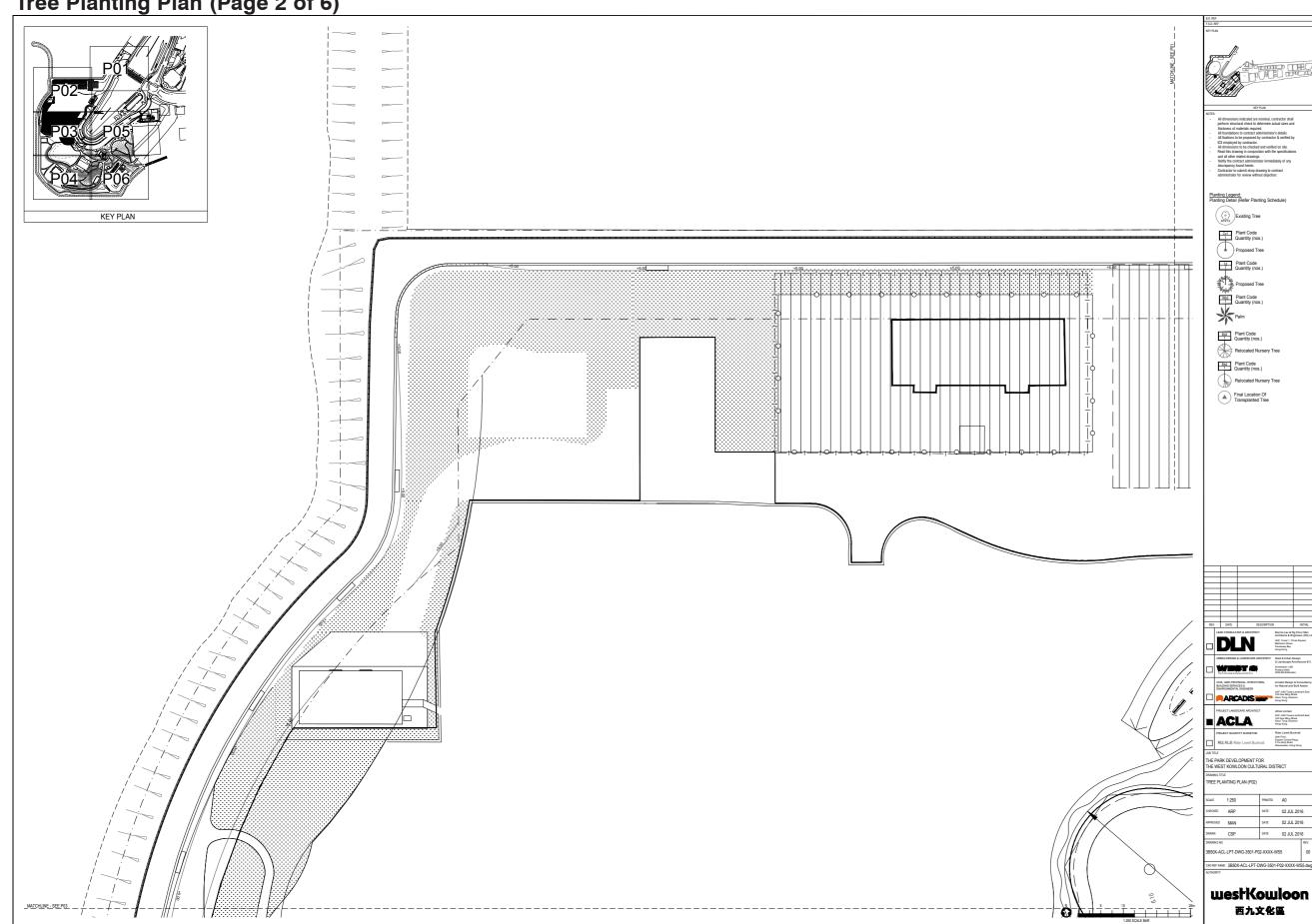
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APPENDIX A - TREE PLANTING PLANS

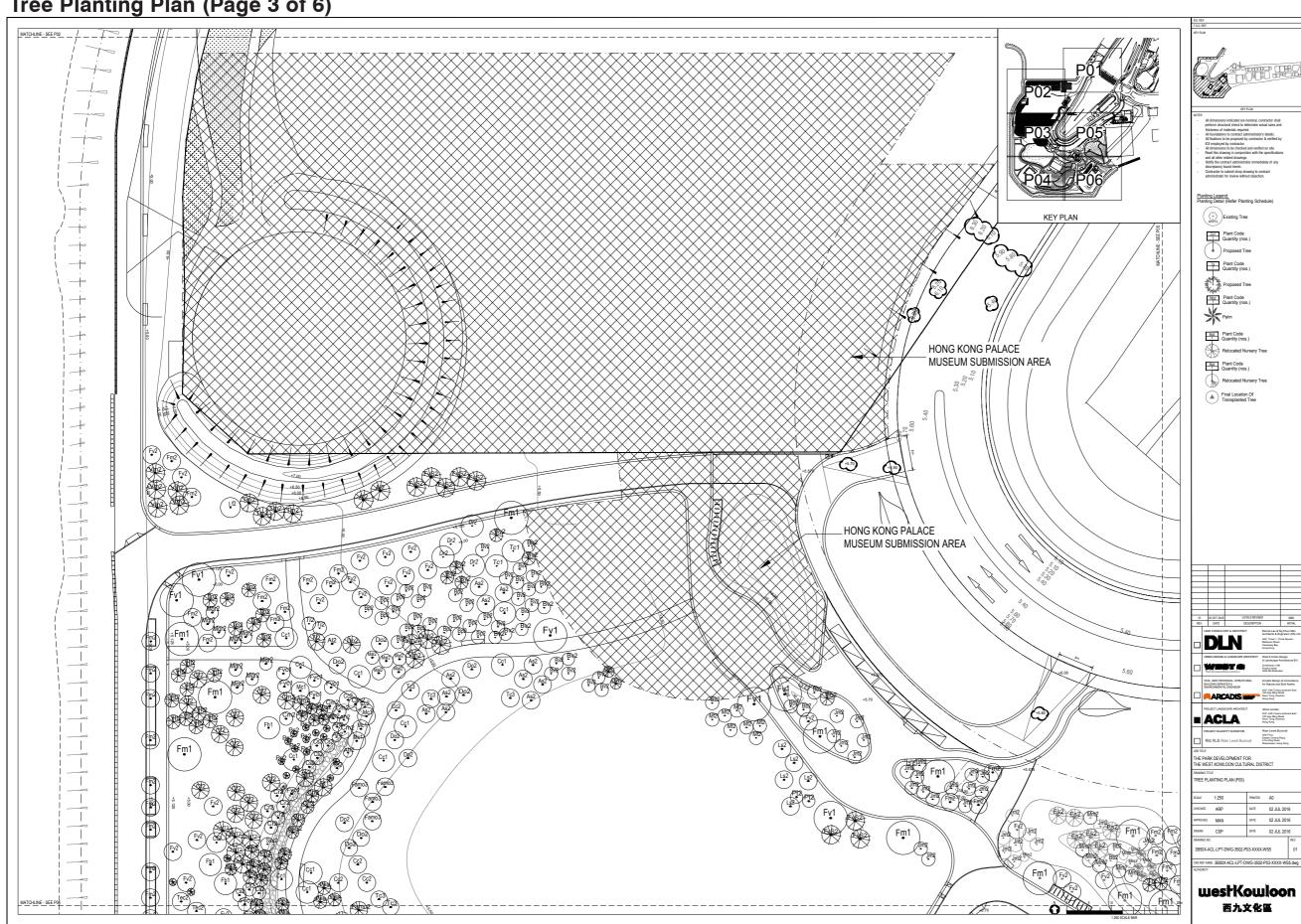
Tree Planting Plan (Page 1 of 6)



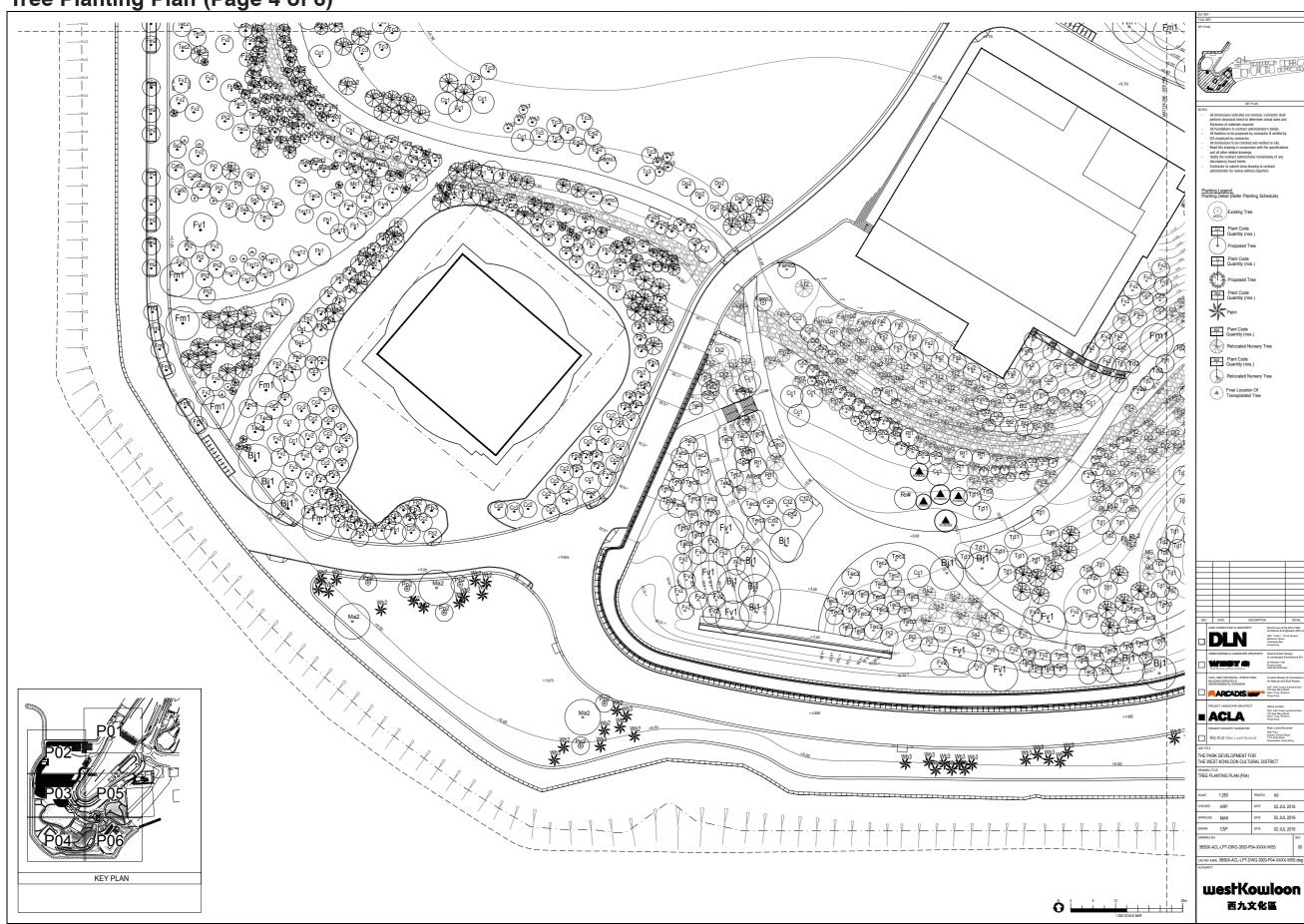
Tree Planting Plan (Page 2 of 6)



Tree Planting Plan (Page 3 of 6)



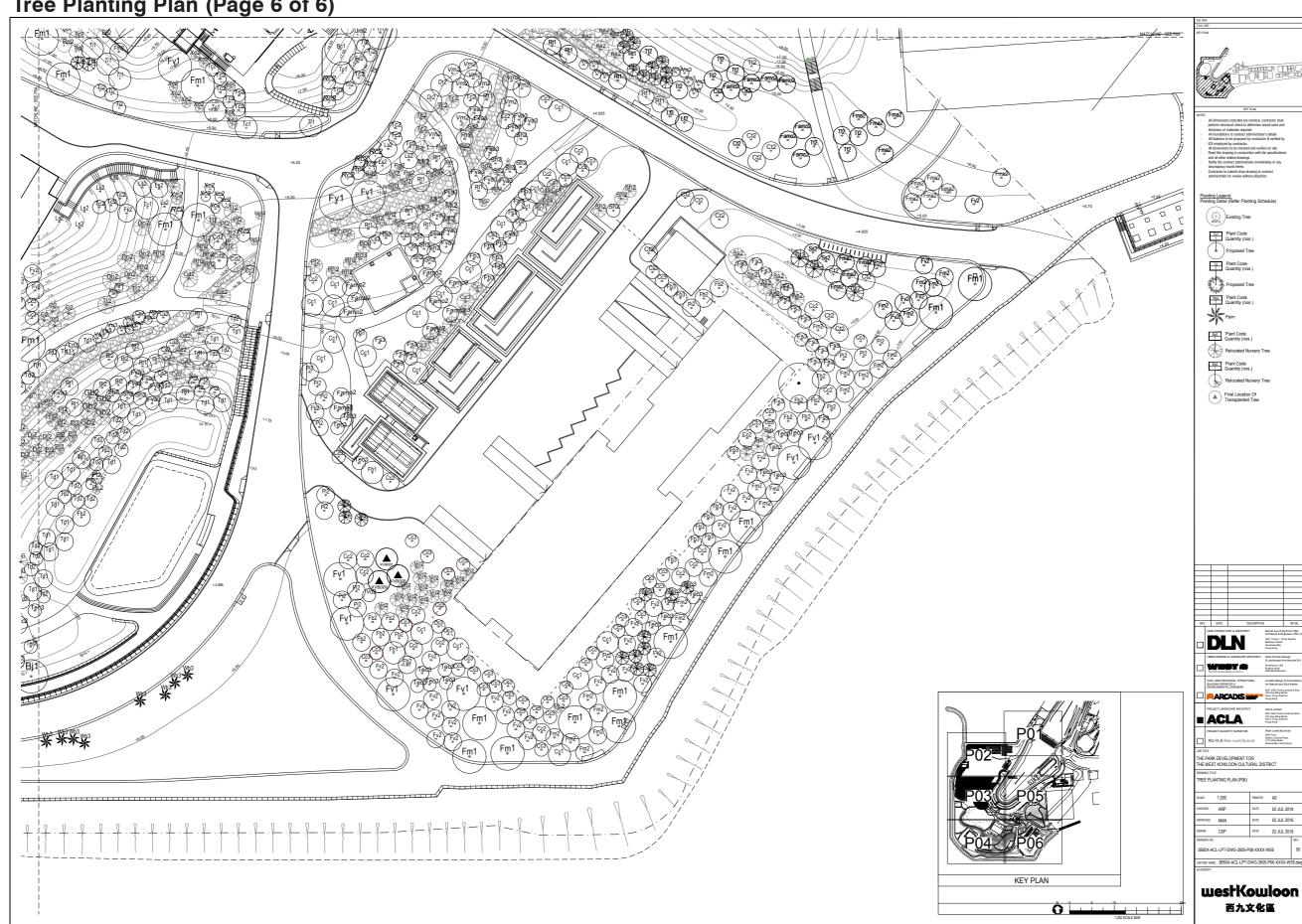
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Tree Schedule (Page 1 of 2)

APPENDIX B - TREE PLANTING SCHEDULE

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Tree Planting Schedule (Page 1 of 3)

		Tree code	Botanical name	Chinese name	Height (mm)	Spread (mm)	DBH	Total
Canopy Trees		Tree code	botanica name	Chinese Hame	Height (IIIII)	Spread (IIIII)	DOIT	Total
Native	Heavy standard	Fv1	Ficus virens	大葉榕	4500	2500	80	40
Native	Standard	Fv2	Ficus virens	大葉榕	3500	1500	60	126
Native	Heavy standard	Fm1	Ficus microcarpa	細葉榕	4500	2500	80	40
Native	Standard	Fm2	Ficus microcarpa	細葉榕	3500	1500	60	129
Flowering Trees	Staridard	11112	1333 1110/3331,74	AM SIS THE	3300	1300	00	123
Exotic	Heavy standard	Aa2	Artocarpus altilis		4500	2000	120	3
Native	Heavy standard	Ahe2	Artocarpus heterophyllus	技蘿蜜	2500	1200	80	6
Native	Heavy standard	Bb2	Bauhinia x blakeana	洋紫荊	4000	2000	80	24
Domesticated	Heavy standard	Bp2	Bauhinia purpurea	紅花羊蹄甲	4000	2000	80	60
Domesticated	Heavy standard	Bv2	Bauhinia variegata	宮粉羊蹄甲	4000	2000	80	42
Domesticated	Heavy standard	Bvc2	Bauhinia variegata var. candida	白花洋紫荊	4000	2000	80	11
Exotic	Heavy standard	Bo3	Bixa orellana	紅木	3000	1500	80	2
Domesticated	Heavy standard	Bc1	Bombax ceiba	木棉	6000	3000	100	1
Exotic	Heavy standard	Ba-1	Brachychiton acerifolius	槭葉蘋婆	4500	2500	100	14
Domesticated	Heavy standard	Dr2	Delonix regia	鳳凰木	4000	2500	80	21
Exotic	Heavy standard	Aj2	Albizia julibrissin	合歡	4000	2000	80	15
Native	Heavy standard	Es2	Elaeocarpus sylvestris	山杜英	4000	2500	100	25
Exotic	Heavy standard	Jm2	Jacaranda mimosifolia	藍花楹	4000	2500	80	42
Exotic	Standard	Ls2	Lagerstroemia speciosa	大花紫薇	3500	1500	70	26
Native	Standard	Mf2	Manglietia fordiana	木蓮	2500	1200	50	7
Native	Heavy standard	Mm2	Michelia maudiae	深山含笑	4000	2000	80	21
Native	Standard	Rc2	Rhodoleia championii	紅花荷	2500	1200	50	28
Exotic		Tc1	Tabebuia chrysantha	風鈴木	6000	3000	100	9
Exotic	Heavy standard Standard	Tc2	Tabebula chrysantha	風鈴木	4500	2000	50	22
Exotic		Ti1	Tabebuia impetiginosa	粉紅風鈴木	6000	3000	100	5
	Heavy standard	Ti2		粉紅風鈴木	4500	 	80	32
Exotic Exotic	Heavy standard	_	Tabebuia impetiginosa	紅花風鈴木		2000 1500	80	8
Domesticated	Heavy standard Standard	Tp2 Vm2	Tabebuia pentaphylla Vernicia montana	木油樹	3500		50	19
	20 4000 0000 0000			金蒲桃	2500	1200	_	15
Exotic	Heavy standard	Xc2	Xanthostemon chrysanthus	立用仇	4500	2500	80	12
Palms	Lloove standard	Wha	Wadistin hifi wasta	狐尾椰子	F000	2000	150	16
Exotic	Heavy standard	Wb2	Wodyetia bifurcata		5000	2000	150	16
Exotic	Semi-mature	Rr#	Roystonea regia	王棕	7000	2500	250	9
Trees for open grass ve		A == 2	A describe and arising a second	海红豆	2000	1500	- 00	
Native	Heavy standard	Am2	Adenanthera microsperma	海紅豆	3000	1500	80	1
Native	Standard	As2	Aquilaria sinensis	牙香樹	3500	1500	60	19
Native	Heavy standard	Cc1	Cinnamomum camphora	樟	6000	3000	100	57
Native	Heavy standard	Cc2	Cinnamomum camphora	樟	3000	1500	80	59
Native	Standard	Cc3	Cinnamomum camphora	樟	2500	1500	50	79
Exotic	Heavy standard	Do2	Dalbergia oliveri	奥氏黄檀	3500	1500	80	27
Domesticated	Heavy standard	Famo2	Falcataria moluccana	南洋楹	6000	3000	150	11
Domesticated	Heavy standard	Famo3	Falcataria moluccana	南洋楹	3000	1500	80	13
Native	Standard	Fv4	Ficus virens	大葉榕	3000	1500	70	27
Native	Standard	Fv3	Ficus virens	大葉榕	2000	1200	50	39
Native	Heavy standard	Lf2	Liquidambar formosana	楓香	4000	2000	100	13

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Tree Planting Schedule (Page 2 of 3)

Exotic	Heavy standard	Tt2	Tipuana tipu	大班木	6000	3000	120	15
Exotic	Heavy standard	Tc3	Tabebuia chrysantha	風鈴木	6000	3000	120	17
Domesticated	Heavy standard	Ac2	Averrhoa carambola	楊桃	2500	1200	80	2
Exotic	Heavy standard	Al2	Artocarpus nitidus	桂木	2500	1200	80	1
Native	Standard	Ah2	Artocarpus hypargyreus	白桂木	2000	1200	50	10
Exotic	Heavy standard	Cd2	Cedrus deodara	雪松	3000	2000	80	9
Native	Heavy standard	Cs2	Celtis sinensis	朴樹	3500	1800	80	52
Exotic	Heavy standard	Cta2	Chukrasia tabularis	麻棟	4500	2500	100	5
Domesticated	Heavy standard	Cl2	Clausena lansium	黃皮	3000	1500	80	3
Native	Heavy standard	Cn2	Cleistocalyx operculatus	水翁	6000	3000	100	3
Exotic	Heavy standard	Di2	Dillenia indica	第倫桃	5000	3000	120	16
Domesticated	Heavy standard	DI2	Dimocarpus longan	龍眼	3500	1500	80	5
Domesticated	Heavy standard	Dd2	Dracontomelon duperreanum	人面子	3500	1800	80	2
Exotic	Standard	Dli2	Drypetes littoralis	鐵色	1500	1500	60	5
Exotic	Standard	lr1	llex rotunda	鐵冬青	1500	1500	60	6
Exotic	Standard	Ej2	Eriobotrya japonica	枇杷	3500	2000	60	5
Domesticated	Heavy standard	Fav2	Ficus altissima 'Variegata'	斑葉高山榕	4500	3000	80	17
Domesticated	Standard	FbS2	Ficus benjamina 'Starlight'	星光榕	2500	1500	60	10
Native	Standard	Fvc1	Ficus variegata	青果榕	1500	1200	50	50
Exotic	Standard	Gb2	Ginkgo biloba	銀杏	3000	1500	50	5
Exotic	Standard	Gba2	Grevillea banksii	紅花銀樺	3000	1500	60	7
Exotic	Heavy standard	Kp2	Kigelia pinnata	吊瓜樹	6000	4000	150	5
Exotic	Heavy standard	Ke2	Koelreuteria elegans subsp. formosana	台灣欒樹	4500	2000	100	10
Domesticated	Heavy standard	Lc2	Litchi chinensis	荔枝	2500	1200	80	4
Native	Heavy standard	Masa2	Macaranga sampsonii	鼎湖血桐	4000	2000	80	3
Exotic	Standard	Mgr2	Magnolia grandiflora	荷花玉蘭	3000	1500	50	16
Native	Heavy standard	Mpa2	Mallotus paniculatus	白楸	4500	2500	80	1
Domesticated	Heavy standard	Mi2	Mangifera indica	杧果	3500	1500	80	5
Exotic	Heavy standard	Mz2	Manilkara zapota	人心果	3500	1500	80	5
Domesticated	Heavy standard	Mal2	Michelia x alba	白蘭	4500	2000	120	15
Exotic	Standard	Pt2	Peltophorum tonkinense	銀珠	3000	1500	60	16
Native	Heavy standard	Ph2	Pterospermum heterophyllum	翻白葉樹	4500	2500	100	4
Exotic	Heavy standard	Po2	Platanus orientalis	法國梧桐	4500	2000	120	1
Domesticated	Heavy standard	Vm1	Vernicia montana	木油樹	3500	2000	80	4
Native	Heavy standard	Pc2	Pyrus calleryana	豆梨	4000	2000	100	2
Native	Standard	Pp2	Pongamia pinnata	水黃皮	3000	1500	70	11
Exotic	Heavy standard	Rh2	Radermachera hainanensis	海南菜豆樹	4500	2000	100	10
Native	Standard	Rt1	Reevesia thyrsoidea	梭羅樹	3500	2500	60	3
Native	Standard	Mc1	Machilus chekiangensis	浙江潤楠	4000	2000	60	46
Exotic	Standard	Sd2	Saraca dives	中國無憂花	3000	1500	60	10
Native	Heavy standard	Sad2	Sapium discolor	山烏桕	4500	2500	100	5
Native	Standard	Ssu2	Schima superba	木荷	3000	1500	60	2
Native	Standard	Sh2	Syzygium hancei	韓氏蒲桃	4500	2500	50	9
Exotic	Standard	TmT2	Terminalia mantaly cv. 'Tricolor'	錦葉欖仁	3000	1500	60	20
Native	Standard	Vo3	Viburnum odoratissimum	珊瑚樹	1500	1200	50	34
Native	Heavy standard	Bj1	Bischofia javanica	秋楓	4500	2500	80	12
Native	Heavy standard	Bt2	Bridelia tomentosa	土蜜樹	4500	2000	100	19
Exotic	Standard	Cf2	Caesalpinia ferrea	巴西鐵木	3500	1500	60	13
Native	Standard	Cafi2	Castanopsis fissa	黧蒴錐	1500	1200	50	4
Domesticated	Standard	Ct2	Crateva trifoliata	鈍葉魚木	3000	2500	50	38

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Tree Planting Schedule (Page 3 of 3)

Domesticated	Heavy standard	Fb1	Ficus benjamina	垂葉榕	4500	2500	80	11
Domesticated	Standard	Fb2	Ficus benjamina	垂葉榕	3500	1500	60	40
Domesticated	Standard	Fb3	Ficus benjamina	垂葉榕	1500	1200	50	47
Exotic	Heavy standard	Fma2	Ficus macrophylla	澳洲大葉榕	5000	2500	100	24
Exotic	Standard	PL2	Polyalthia longifolia	長葉暗羅	4500	1000	60	16
Domesticated	Heavy standard	Pi2	Pterocarpus indicus	紫檀	4500	3000	100	20
Domesticated	Standard	Pi3	Pterocarpus indicus	紫檀	2000	1500	75	6
Native	Heavy standard	Ss2	Sapindus saponaria	無患子	4500	2500	80	19
Native	Heavy standard	Sase1	Sapium sebiferum	烏桕	4000	3000	80	3
Native	Standard	Sase2	Sapium sebiferum	烏桕	3000	2500	50	14
Domesticated	Heavy standard	Tec2	Terminalia catappa	欖仁樹	4500	3000	100	55
Domesticated	Standard	Tec3	Terminalia catappa	欖仁樹	3000	1500	60	59
Exotic	Heavy standard	Td1	Taxodium distichum	落羽杉	4500	2000	100	48
Exotic	Standard	Td2	Taxodium distichum	落羽杉	3000	1500	60	35
Native	Heavy standard	A.s.	Alsophila spinulosa	刺桫欏	1500	1200	100	9
Native	Heavy standard	FvS2	Ficus virens	大葉榕	4000	1500	100	4
Exotic	Semi-mature	C.b.	Cycas balansae	寬葉蘇鐵	1500	1000	200	5
Native	Heavy standard	Ht2	Hibiscus tiliaceus	黃槿	3500	2000	80	10
Exotic	Standard	DDr2	Dracaena draco	龍血樹	1500	1200	70	22
Native	Heavy standard	Vo2	Viburnum odoratissimum	珊瑚樹	3500	2000	80	16
Exotic	Standard	C.m.	Ceratozamia mexicana	墨西哥蘇鐵	1500	1000	70	10
Exotic	Standard	Ap2	Acer palmatum	雞爪槭	3000	1500	60	7
Exotic	Standard	Ps2	Photinia serratifolia	石楠	2500	1500	60	10
Exotic	Standard	Pf2	Photinia fraseri	紅葉石楠	2500	1500	60	8
Exotic	Standard	Cj2	Camellia japonica	山茶	2000	1500	50	5
Native	Light standard	SI2	Sterculia lanceolata	假蘋婆	4500	2500	40	9
Native	Heavy standard	Tpo2	Thespesia populnea	紅葉黃槿	4000	2000	80	9
Exotic	Heavy standard	Tm2	Terminalia mantaly	小葉欖仁	4500	3000	100	10
Exotic	Heavy standard	Pg2	Psidium guajava	番石榴	3000	1500	80	5
Domesticated	Standard	Cr2	Citrus reticulata	柑橘	2500	1500	50	10
Domesticated	Standard	Csi2	Citrus sinensis	橙	2500	1500	50	5
Domesticated	Standard	Cm2	Citrus maxima	柚	2500	1500	50	7
Exotic	Standard	Ma2	Melia azedarach	苦楝	4000	2000	70	3
Exotic	Standard	Dw	Dombeya wallichii	吊芙蓉	2000	2000	70	4
Exotic	Heavy standard	Lcs	Lophostemon confertus	紅膠木	4000	2000	85	7
Native	Heavy standard	Pea	Phyllanthus emblica	餘甘子	20000	1500	80	11
Exotic	Semi-mature	Gr2	Grevillea robusta	銀樺	70000	2000	160	2
Exotic	Light Standard	Sjp	Sophora japonica 'Pendula'	龍爪槐	1500	800	30	3
Exotic	Heavy standard	Mg	Metasequoia glyptostroboides	水杉	5000	2000	100	2
Native	Standard	Pts	Pandanus tectorius	露兜樹	2500	1500	50	10
Domesticated	Standard	Syj	Syzygium jambos	蒲桃	3000	1500	50	21
	I		•		•	TOTAL		2356

Tree Type

Native	1124	47.71%	71.65%
Domesticated	564	23.94%	
Exotic	668	28.35%	28.35%

Light Standard	1	0.51%
Standard	118	50.08%
Heavy standard	114	8 48.73%
Semi-mature	1	0.68%

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APPENDIX C - POST-PLANTING CARE PLAN

Post Planting Care

A INTRODUCTION

1. Background

This document sets out the requirements and the frequencies of inspections and maintenance of the landscape softworks within the West Kowloon Cultural District Park.

2. Maintenance Authorities for Completed Soft Landscape Works

WKCDA, or its service agent, will be the maintenance authorities for completed soft landscape works for the WKCD Park.

B. LANDSCAPE SOFTWORKS MAINTENANCE OPERATIONS FOR GENERAL LANDSCAPE AREA

Refer to tables in the following pages.

Specific Requirements

- (a) General inspections focus on whether tree has any health problem, structural issue, vandalism or is obstructing any pedestrian or vehicular accessibility and/or sightlines, especially EVA clearance requirements.
- (b) Canopy Tree Pruning prune as required. Remove dead, dying and unhealthy shoots. Prune for healthy growth and to avoid conflict with pedestrian or vehicular accessibility and/ or sightlines, especially EVA clearance requirements, above ground utilities and CCTV visibility requirements. For the first three years after planting, maximum 25% crown reduction should be undertaken every year in order to reduce wind loading in advance of the typhoon season. Crown pruning of maximum 20% at the time of planting is recommended.
- (c) Canopy Tree Pruning Proper crown lifting and selective pruning is required for trees adjacent to EVAs, until the lowest branch height exceeds 5.5 metres. Prune for healthy growth and to avoid conflict of sightlines, vehicles and above ground facilities.
- (d) Canopy Tree crown thinning to be in accordance with TMO/DevB's guidelines.
- (e) Canopy Tree crown cleaning to be in accordance with TMO/DevB's guidelines.
- (f) Palm Tree Pruning Removal of palm fronds remove as required. Remove dead, dying and unhealthy fronds and fruiting bodies for healthy growth and to avoid conflict of sightlines and above ground facilities.
- (g) Pruning of small trees, palms and conifers and pruning of shrubs and ground covers avoid carrying out pruning of shrubs and ground covers while they are developing flower bearing shoots or they are in full flower, unless the shrubs or ground covers are causing or are likely to cause obstruction to pedestrians or vehicles or sightlines.
- (h) Where specified, hedges and conifers (e.g. *Podocarpus macrophyllus*羅漢松) to be hand pruned. Do not use electrical trimmers or chain saws.
- (i) Where specified, hedges (e.g. *Duranta repens*蓮翹) to be clipped to maintain neat and tidy appearance.
- (j) Pruning of shrubs and ground covers around root collars of trees to be in accordance with TMO/DevB's guidelines.
- (k) Check for pests / fungi apply pesticides or fungicides as required.
- (I) Watering Hand watering by hose unless irrigation system is available within the planting areas. Do not use high pressure water jet. Do not spray on footpaths and roads. Fresh water or shall be used for watering landscape softworks. Water shall be applied using a hose in such a manner to avoid compaction or washout of soil or loosening of plants. Any damage caused shall be made good immediately. All planted areas shall be watered to ensure healthy growth of the plants.

- Meeding all planted and/or grassed areas including tree pits shall be kept free of weeds and any parasitic plants, such as *Pueraria*, *Cuscuta*, *Cassytha* and *Mikania*. Species of noxious and invasive weeds, as defined by Agriculture, Fisheries and Conservation Department (AFCD), such as Mikania micrantha, shall be cleared manually from all affected areas and disposed of, all in accordance with the guidelines and practice notes promulgated by AFCD. Use of chemical or fire for weeding shall not be allowed. Any ground cover plants, herbaceous plants, climbers, mulch or soil disturbed or removed during the weeding operation shall be made good. Planted / grassed areas and tree pits shall be weeded to remove all unwanted vegetative growth including aerial parts and roots, over the complete area. Weeding shall be carried out by hand avoiding damage to the planted areas.
- (n) Fertilizer is not required unless a nutrient deficiency is recorded.
- (o) Bark mulching at tree root collar ensure that bark mulch, where specified, is located around the root collar.
- (p) Above ground cable guying maintenance Above ground guying should have been removed by the end of the Establishment Period except for trees replaced during the Establishment Period. In these cases, check if cables are adversely affecting tree bark or restricting tree trunk or branch development, loosen or re-adjust or remove cables as necessary, loosen cables before typhoon seasons, and replace broken, damaged and other unsatisfactory ties, guys and cables.
- Bamboo stakes maintenance All open-ended hollow sections of bamboo stakes should be sealed to prevent accumulation of standing water and consequent mosquito nuisance. Broken, damaged or unsatisfactory tree stabilisation ties and bamboo posts shall be replaced and ties that are causing chafing or abrasion of the plant shall be relocated or adjusted. Bamboo posts shall be adjusted as necessary to ensure they are taut and fully functional. Firming up of the trees and tree stakes shall be undertaken from time to time during the period for Establishment Works and particularly after heavy rain and/or wind.
- (r) Above ground cable guying and bamboo stakes removal Above ground cable guying or bamboo staking should be removed at the end of the period for establishment works or when instructed by the Engineer, unless otherwise instructed. Removal should be after October 1, after the typhoon and rainy season. Do not remove above ground cable guying and bamboo stakes between April 1 and September 30. Proper crown lifting and selective pruning to avoid conflict of sightlines and above ground utilities, and to reduce crown wind loading should be carried out at the time of removal.
- (s) Any visible underground guying strays should be cut by the end of the Establishment Period. No excavating or damage to tree roots is permitted.

1. Post Planting Care Schedule - General Landscape Areas During the Establishment Period

During the Establishment Period, carry out the operations as scheduled below as applicable to Soft Landscaping Works in accordance with this Manual: Table 1: Maintenance Operations of General Landscape Areas during Establishment Period

Item	Maintenance Operation	Frequency	J	F	М	Α	М	J	J	Α	S	0	N	D
1	Replacement Planting	As required within 14 days												
2	Tree Support Inspection/Adjustment	Once/month	1	1	1	1	1	1	1	1	1	1	1	1
3	Checking After Adverse Weather	As required												
4	Watering	280 days/year, as required												
5	Litter / Debris Collection	Daily												
6	Weed Control	21/year	1	1	2	2	2	2	2	2	2	2	2	1
7	Lawn Mowing	20/year	1	1	2	2	2	2	2	2	2	2	2	
8	Fertiliser Application	Twice/year			1						1			
9	Soil Aeration	Twice/year			1						1			
10	Tying climbers to supports and climber wires	Check monthly, tie as necessary	1	1	1	1	1	1	1	1	1	1	1	1
11	Climber wires	Check every two months; adjust/ replace as neces- sary		1		1		1		1		1		1
12	Pruning	Refer to Appendix D												
14	Thinning	Refer to Appendix D												
15	Top-up Mulch	Twice/year			1						1			
16	Pest Control	As required												
17	Maintenance Record	Once/month												
18	Joint Maintenance Inspection (Land- scape Designer, Field Officer, Contractor and Subcontractor)	Once/month	1	1	1	1	1	1	1	1	1	1	1	1
19	Tree Risk Assessment	Once/year			1									

2. Post Planting Care Schedule - General Landscape Areas at Year One After Establishment Period

GENERAL - After Establishment Period, operations to be carried as scheduled below.

Table 2: Maintenance Operations of General Landscape Areas at Year One after Establishment Period

Item	Maintenance Operation	Frequency	J	F	М	Α	М	J	J	Α	s	О	N	D
1	Replacement Planting	As required												
2	Tree Support Inspection/Adjustment	Once/month	1	1	1	1	1	1	1	1	1	1	1	1
3	Checking After Adverse Weather	As required												
4	Watering	280 days/year, as required												
5	Litter Collection	Daily	1	1	1	1	1	1	1	1	1	1	1	1
6	Weed Control	15/year	1	1	2	1	2	1	2	1	2	2	2	1
7	Lawn Mowing	18/year	1		2	2	2	2	2	2	2	2	1	
8	Fertiliser Application	Twice/year			1							1		
9	Soil Aeration	Twice/year			1							1		
10	Pruning	Refer to Appendix D												
11	Thining	Refer to Appendix D												
12	Top-up Mulch	Twice/year			1						1			
13	Pest Control	As required												
14	Periodic Inspection by User and Horticultural Maintenance Contractor	Quarterly/ Once/ month during plant- ing season	1			1	1	1	1	1	1		1	
15	Tree Risk Assessment	Once/year			1									

^{*}For flowering trees and shrubs, pruning shall only be carried out after flowering.

3. Post Planting Care Schedule - General Landscape Areas Long Term Maintenance Operations

GENERAL - After Establishment Period, operations to be carried as scheduled below.

Table 3: Long Term Maintenance Operations of General Landscape Areas

Item	Maintenance Operation	Frequency	J	F	М	Α	М	J	J	Α	S	0	N	D
1	Replacement Planting	As required												
2	Tree Support Inspection/Adjustment	As required												
3	Checking After Adverse Weather	As required												
4	Watering	280 days/year, as required												
5	Litter Collection	Daily	1	1	1	1	1	1	1	1	1	1	1	1
6	Weed Control	15/year	1	1	1	1	1	1	1	1	1	1	1	1
7	Lawn Mowing	18/year	1		2	2	2	2	2	2	2	2	1	
8	Fertiliser Application	Once/year			1									
9	Soil Aeration	Twice/year			1						1			
10	Pruning	Varies according to species; check monthly; treat im- mediately												
11	Thining**	Once/year								1				
12	Top-up Mulch	Once/year			1									
13	Pest Control	As required												
14	Periodic Inspection by User and Horticul- tural Maintenance Contractor	Quarterly			1			1		1			1	
15	Tree Risk Assessment	Once/year			1									

^{*}For flowering trees and shrubs, pruning shall only be carried out after flowering.

^{**}Thinning frequency is subject to plant growth.

Submission of Tree and Turf Grass Planting and Landscape Plans

C. LONG-TERM TURF MAINTENANCE OPERATIONS

BASIC REQUIREMENTS:

Prior to the formulation of a practical turf maintenance program for large turf amenity areas, the following understanding should be established.

- Control usage: Grass is a living thing. Un-controlled uses of the grass areas would bring wears and tears to the point of no return. Control usage of the area is hence vitally important for the well-being of the grass and in particular the recuperation of the grass so to prolong the usability of the turf surface.
- Over-seeding of winter-grass around late October: In order to maintain the standard or the grass cover, over-seeding of a "winter grass" would be required prior to the onset of the cooler months. Perennial ryegrass, with a proven record of success, should be used for the over-seeding. Special machine (over-seeder) should be used for sowing the grass seeds. The sowing rate ranges from 1.36 2.27 kilograms per 100 square meters. Some topping up of seeds for maintenance purpose would be need afterwards.
- 3. On Site Nursery: An on-site nursery will be established for a steady supply of quality sods for emergency repairing, etc.
- 1. Turf maintenance equipment: The following listed equipment is considered essential for the maintenance of a quality amenity area of the large lawn area:
 - a. One unit of ride-on 3-gang cylinder mower
 - b. One unit of multi-purpose utility vehicle equipped with the following accessories:
 - i. Top-dresser
 - ii. Broad-caster
 - iii. Long-broom sprayer
 - iv. Sweeper
 - v. Core-pusher (optional)
 - vi. Spiking/slicing/coring unit
 - vii. Over-seeding unit
 - viii. Verti-cuttering unit
 - c. 2 units of hand rotary mowers
 - d. Rollers of various weighs and sizes
 - e. Hand metal rake and other hand tools
 - f. Built-in irrigation system which would provide adequate and even distribution of irrigation water

- Trained staffs (supervisor and workers): The supervisor responsible for the maintenance of the amenity area should have the basic knowledge on turf management. Some training on the respective fields is needed.
- 6. Closing the Field Mechanism: Fence off Main event lawn, Promenade lawn, Small lawn opposite Freespace under inclement weather condition, etc.

GENERAL MAINTENANCE REQUIREMENT:

- 1. Rest time: Rest time should be catered for the turf area each week. The area should be sectionalized. Sections should be used on rotational basis. The rest time should be programmed carefully and the entire area should be open for major events. Ideally the area should be close every one day per week for carrying out the weekly maintenance works, e.g. mowing, coring, etc.
- 2. Pest Period: Two one-month rest periods should be allowed. One commencing in early November and the other in late May to facilitate the introduction of the winter-grass seeds (over-seeding) and for better transition of the grass after the cooler months. Timing of the rest period can adjust slightly to cope with the situation specific to the site.
- 3. Storage Room: Special area/room should be provided for sheltering equipment, and for storing fertilizers, pesticides, etc.
- 4. Storage Bays: Bays for storing sand and other material.

MAINTENANCE PROGRAM:

- Mowing: Mowing should be carried out on weekly basis. During the growth period, the mowing height should be set at 38 mm. During the cooler months and with the over-seeding of the winter-grass, he mowing height should be reduced to 38 42 mm. Grass chipping should be mechanically or manually removed after each mowing
- 2. Top-dressing: At least 2 times annually. About 42 mm of sand should be applied in each application.
- De-thatching by means of the following:
 - a. Verti-cutting: 1-2 times annually. One is done in conjunction with the over-seeding operation. The depth of the cutting should be set at 76 mm or about 26 mm below the thatch layer.
 - b. Solid-tine coring using 6 mm diameter tines: Once every two months.
 - c. Hollow-tine coring using 12 mm diameter tine: Once annually.

4. Fertilization

Fertilization will be needed regularly. Usually complete fertilizer supplemented with other essential and trace elements will be applied on monthly basis. The rate of application would be equivalent of 15-20 gm/100 m2. Prior to the onset of the winter, one application of potash would be recommended. Immediate after over-seeded a phosphate-rich fertilizer should be applied. Liming only when the pH of the rootzone layer is below 6.0. Application of elemental sulphur when the pH is higher than 7.4.

5. Pest Control

The Integrated Pest Management (IPM) principle should be adopted on pest control. The basics for IPM are: site assessment, monitoring, setting thresholds, stress management and identification and optimizing management operations. In short with the back up of the needed information, treat the filed only when needed! Various pesticides, namely insecticides, fungicides, herbicides.

6. Planning and Record Keeping

A set of routine cultural practice should be incorporated in the weekly maintenance program. All other activities should be recorded in the log book. See typical record sheet as shown in the chart below. This or similar chart can be used for planning and record purpose.

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Grow-In-Period (Short Term Management Programme) first three months after the completion of sprigging) Page 1 of 3

Dte Wk	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	1 Inserting loosing & replenishing bare patches (W)	2 Inserting loosing & replenishing bare patches (W)	3 (W)	4 (W)	5 (W)	6 (W)	7 (W)
2	8 Manual Weeding	9 (W)	10 (W)	11 (W)	12 (W)	13 (W)	14 (W)
3	15 (W)	16 (W)	17 Fertilizing	18 (W)	19 (W)	20 Manual Weeding	21 (W)
4	First mowing to 38mm when grass attaining 75mm and with clippings removed (W)	23 (W)	24 (W)	25 (W)	26 (W)	27 (W)	28 (W)

^{1. 2} testing period allowed. One around May and one around November

^{2.} Wintergrass will gradually fade out in the summer month

Grow-In-Period (Short Term Management Programme) first three months after the completion of sprigging) Page 2 of 3

Dte Wk	Mon	Tue	Wed	Thu	Fri	Sat	Sun
5	29 Mowing at 32mm (W)	30 (W)	1 (W)	2 (W)	3 (W)	4 (W)	5 (W)
6	6 Mowing at 32mm (W)	7 (W)	8 Fertilizing (W)	9 (W)	10 (W)	11 (W)	Slicing followed by topdressing with 2mm of sand (W)
7	13 Mowing at 32mm (W)	14 (W)	15 (W)	16 (W)	17 (W)	18 (W)	19 (W)
8	20 Mowing at 32mm (W)	21 (W)	22 (W)	23 (W)	24 (W)	25 (W)	26 (W)

^{1. 2} testing period allowed. One around May and one around November

^{2.} Wintergrass will gradually fade out in the summer month

Grow-In-Period (Short Term Management Programme) first three months after the completion of sprigging) Page 3 of 3

Dte Wk	Mon	Tue	Wed	Thu	Fri	Sat	Sun
9	27 Mowing at 32mm (W)	28 (W)	29 Fertilizing (W)	30 (W)	31 (W)	1 (W)	2 (W)
10	3 Mowing at 32mm (W)	4 (W)	5 (W)	6 (W)	7 (W)	8 Manuel weeding (W)	9 (W)
11	10 Mowing at 32mm (W)	11 (W)	12 (W)	13 (W)	14 (W)	15 (W)	16 (W)
12	17 Mowing at 32mm (W)	18 (W)	19 Fertilizing (W)	20 (W)	21 (W)	22 (W)	23 (W)

^{1. 2} testing period allowed. One around May and one around November

^{2.} Wintergrass will gradually fade out in the summer month

Long Term (Yearly) Turf Management Programme Table (Imposed after the Grown-in-period) Page 1 of 3

Month	Mowing	Watering	Fertilizing	Aeration	Topdressing	Verti-cutting	Pesticide applicatio n	Overseeding
Jan	Weekly at 42mm	Daily or as required	Bi-monthly with comp'd fertilizer	Bi-monthly with solida tine/blade			When needed	When needed
Feb	Weekly at 42mm	Daily or as required					When needed	
Mar	Weekly at 32mm	Daily or as required	Bi-monthly with comp'd fertilizer	Bi-monthly with solida tine/blade			When needed	
Apr	Weekly at 32mm	Daily or as required					When needed	

 ² testing period allowed. One around May and one around November

^{2.} Wintergrass will gradually fade out in the summer month

Long Term (Yearly) Turf Management Programme Table (Imposed after the Grown-in-period) Page 2 of 3

Month	Mowing	Watering	Fertilizing	Aeration	Topdressing	Verti-cutting	Pesticide applicatio n	Overseeding
May	Weekly at 32mm	Daily or as required	Bi-monthly with comp'd fertilizer	Yearly hollow tine	Semi-yearly		When needed	
June	Weekly at 32mm	Daily or as required				Semi-yearly	When needed	
Jul	Weekly at 32mm	Daily or as required	Bi-monthly with comp'd fertilizer	Bi-monthly with solid tine/blade			When needed	
Aug	Weekly at 32mm	Daily or as required					When needed	

 ² testing period allowed. One around May and one around November

Table 2 of 3: May -Aug

^{2.} Wintergrass will gradually fade out in the summer month

Long Term (Yearly) Turf Management Programme Table (Imposed after the Grown-in-period) Page 3 of 3

Month	Mowing	Watering	Fertilizing	Aeration	Topdressing	Verti-cutting	Pesticide applicatio n	Overseeding
Sep	Weekly at 32mm	Daily or as required	Bi-monthly with comp'd fertilizer	Bi-monthly with solid tine/blade		Semi yearly	When needed	
Oct	Weekly at 32mm	Daily or as required					When needed	
Nov	Weekly at 42mm	Daily or as required	Bi-monthly with comp'd fertilizer	Semi-yearly with hollow tine	Semi yearly		When needed	Sowing Wintergrass Seeds (Optional)
Dec	Weekly at 42mm	Daily or as required					When needed	

 ² testing period allowed. One around May and one around November

^{2.} Wintergrass will gradually fade out in the summer month

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APPENDIX D - PRUNING SCHEDULE

Submission of Tree and Turf Grass Planting and Landscape Plans

Tree Pruning Schedule (Page 1 of 4)

Code	Nursery Species No.	Botanical Name	Chinese Name	Flowering & Friuting Periods	Pruning *(the exact pruning time & frequency depend on the actual situation)*			
	NO.				Frequency	Season	Month	
Trees								
Fv1		Ficus virens	大葉榕	Apr-Oct	once annually	Spring	Feb-Apr	
Fv2		Ficus virens	大葉榕	Apr-Oct	once annually	Spring	Feb-Apr	
Fm1		Ficus microcarpa	細葉榕	May-Dec	once annually	Spring	Feb-Apr	
Fm2		Ficus microcarpa	細葉榕	May-Dec	once annually	Spring	Feb-Apr	
Aa2	FT02	Artocarpus altilis	麵包樹	Apr-Aug	once annually	Fall	Oct - Dec	
Ahe2	FT03	Artocarpus heterophyllus	波羅蜜	Mar-Oct	once annually	Fall	Oct - Dec	
Bb2	WL04	Bauhinia x blakeana	洋紫荊	Dec-May	once annually	Fall	Oct - Dec	
Bp2	WL05	Bauhinia purpurea	紅花羊蹄甲	Sep-Feb	once annually	Spring	Feb-Apr	
Bv2	WL06	Bauhinia variegata	宮粉羊蹄甲	Mar-Aug	once annually	Fall	Oct - Dec	
Bvc2	WL07	Bauhinia variegata var. candida	白花羊蹄甲	Mar-Aug	once annually	Fall	Oct - Dec	
Bo3	WL08	Bixa orellana	胭脂樹	May-Feb	once annually	Spring	Feb-Apr	
Bc1		Bombax ceiba	木棉	Mar-Apr	once annually	Spring	Feb-Apr	
Ba-1	WL42	Brachychiton acerifolius	槭葉蘋婆	Apr	once annually	Spring	Feb-Apr	
Dr2		Delonix regia	鳳凰木	Jun-Oct	once annually	Fall	Oct - Dec	
Aj2		Albizia julibrissin	合歡	May-Jul	once annually	Fall	Oct-Dec	
Es2	WL19	Elaeocarpus sylvestris	山杜英	Apr-Aug	once annually	Fall	Oct - Dec	
Jm2		Jacaranda mimosifolia	藍花楹	Apr-Jun	once annually	Fall	Oct - Dec	
Ls2		Lagerstroemia speciosa	大花紫薇	May-Jul	once annually	Fall	Oct - Dec	
Mf2		Maglietia fordiana	木蓮	May-Oct	once annually	Fall	Oct - Dec	
Mm2	WL28	Michelia maudiae	深山含笑	Feb-Oct	once annually	Fall	Oct - Dec	
Rc2		Rhodoleia championii	紅花荷	Feb-Aug	once annually	Fall	Oct - Dec	
Tc1		Tabebuia chrysantha	風鈴木	Mar-Apr	once annually	Fall	Oct - Dec	
Tc2	UF13	Tabebuia chrysantha	風鈴木	Mar-Apr	once annually	Fall	Oct - Dec	
Ti1		Tabebuia impetiginosa	粉紅風鈴木	Mar-Apr	once annually	Fall	Oct - Dec	
Ti2	UF14	Tabebuia impetiginosa	粉紅風鈴木	Mar-Apr	once annually	Fall	Oct - Dec	
Tp2	UF01	Tabebuia pentaphylla	紅花風鈴木	Mar-Apr	once annually	Fall	Oct - Dec	
Vm2	WL14	Vernicia montana	木油桐	Apr-Oct	once annually	Fall	Oct - Dec	
Xc2	UF17	Xanthostemon chrysanthus	金蒲桃	Mar-Aug	once annually	Fall	Oct - Dec	
Am2	WL40	Adenanthera microsperma	海紅豆	Jul-Aug	once annually	Fall	Oct - Dec	
As2	WL03	Aquilaria sinensis	牙香樹	Mar-May	once annually	Fall	Oct - Dec	
Cc1		Cinnamomum camphora	樟樹	Apr-May	once annually	Fall	Oct - Dec	
Cc2		Cinnamomum camphora	樟樹	Apr-May	once annually	Fall	Oct - Dec	
Cc3	WL25	Cinnamomum camphora	樟樹	Apr-May	once annually	Fall	Oct - Dec	
Do2	WL16	Dalbergia oliveri	奥氏黄檀	Mar-Nov	once annually	Fall	Oct - Dec	
Famo2	WL20	Falcataria moluccana	南洋楹	Apr-Jul	once annually	Fall	Oct - Dec	
Famo3		Falcataria moluccana	南洋楹	Apr-Jul	once annually	Fall	Oct - Dec	
Fv2		Ficus virens	大葉榕	Apr-Oct	once annually	Fall	Oct - Dec	
Fv3		Ficus virens	大葉榕	Apr-Oct	once annually	Fall	Oct - Dec	
Lf2	WL01	Liquidambar formosana	楓香	Mar-Sep	once annually	Fall	Oct - Dec	

Submission of Tree and Turf Grass Planting and Landscape Plans

Tree Pruning Schedule (Page 2 of 4)

Code	Nursery Species	Botanical Name	Chinese Name	Flowering & Friuting Periods	Pruning *(the exact pruning time & frequency depend on the actual situation)*			
	No.				Frequency	Season	Month	
Trees								
Tt2	WL37	Tipuana tipu	大班木	Sep- Mar	once annually	Fall	Oct - Dec	
Tc3		Tabebuia chrysantha	風鈴木	Mar-Apr	once annually	Fall	Oct - Dec	
Ac2	FT01	Averrhoa carambola	楊桃	May-Dec	once annually	Fall	Oct - Dec	
Al2	FT20	Artocarpus lingnanensis	桂木	Mar-Sep	once annually	Fall	Oct - Dec	
Ah2		Artocarpus hypargyreus	白桂木	May-Aug	once annually	Fall	Oct - Dec	
Cd2	WL13	Cedrus deodara	雪松	Sep-Oct	once annually	Fall	Oct - Dec	
Cs2		Celtis sinensis	朴樹	Mar-Oct	once annually	Fall	Oct - Dec	
Cta2	WF16	Chukrasia tabularia	麻楝	Apr-Mar	once annually	Fall	Oct - Dec	
Cl2	FT08	Clausena lansium	黃皮	Apr-Aug	once annually	Fall	Oct - Dec	
Cn2	WF01	Cleistocalyx operculatus	水翁	May-Sep	once annually	Fall	Oct - Dec	
Di2	WL17	Dillenia indica	第倫桃	Jan-Oct	once annually	Fall	Oct - Dec	
DI2	FT09	Dimocarpus longan	龍眼	Mar-Nov	once annually	Fall	Oct - Dec	
Dd2	FT04	Dracontomelon duperreanum	人面子	Apr-Nov	once annually	Fall	Oct - Dec	
Dli2	WF03	Drypetes littoralis	鐵色	-	once annually	Fall	Oct - Dec	
lr1		llex rotunda	鐵冬青	Mar-Apr	once annually	Fall	Oct - Dec	
Ej2	FT11	Erobotrya japonica	枇杷果	Sep-May	once annually	Fall	Oct - Dec	
FaV2	WL21	Ficus altissima 'Variegata'	斑葉高山榕	Mar-Oct	once annually	Spring	Feb-Apr	
FbS2	UF02	Ficus benjamina 'Starlight'	星光榕	Sep-Nov	once annually	Spring	Feb-Apr	
Fvc1		Ficus variegata	青果榕	Mar-Dec	once annually	Fall	Oct - Dec	
Gb2	UF03	Ginkgo biloba	銀杏	Mar-Oct	once annually	Fall	Oct - Dec	
Gba2	WF04	Grevillea banksii	紅花銀樺	Mar-May	once annually	Fall	Oct - Dec	
Kp2	UF05	Kiqelia pinnata	臘腸樹	Jun-Nov	once annually	Fall	Oct - Dec	
Ke2	UF06	Koelreuteria elegans subsp. formosana	台灣欒樹	May-Dec	once annually	Fall	Oct - Dec	
Lc2	FT14	Litchi chinensis	荔枝	, Mar-Aug	once annually	Fall	Oct - Dec	
Masa2	UF10	Macaranga sampsonii Hance	鼎湖血桐	Apr-Aug	once annually	Fall	Oct - Dec	
Mgr2		Magnolia grandiflora	荷花玉蘭	May-Oct	once annually	Fall	Oct - Dec	
Mpa2	WL26	Mallotus paniculatus	白楸	Jul-Dec	once annually	Fall	Oct - Dec	
Mi2	FT15	Mangifera indica	芒果	Mar-May	once annually	Fall	Oct - Dec	
Mz2	FT16	Manilkara zapota	人心果	Jun-Oct	once annually	Fall	Oct - Dec	
Mal2	UF18	Michelia x alba	白蘭	Apr-Sep	once annually	Fall	Oct - Dec	
Pt2	WF08	Peltophorum tonkinense	銀珠	Mar-Oct	once annually	Fall	Oct - Dec	
Ph2	WF10	Pterospermum heterophyllum	翻白葉樹	Sep-Nov	once annually	Fall	Oct - Dec	
Po2	UF07	Platanus orientalis	法桐	Feb-Sep	once annually	Fall	Oct - Dec	
Vm1	1 0.07	Vernicia montana	木油樹	Apr-Jun	once annually	Fall	Oct - Dec	
Pc2	UF09	Pyrus calleryana	豆梨	Feb-Sep	once annually	Fall	Oct - Dec	
Pp2	0.03	Pongamia pinnata	水黄皮	May-Jun	once annually	Fall	Oct - Dec	
Rh2	WF11	Radermachera hainanensis	海南菜豆樹	-	once annually	Fall	Oct Dec	
Rt1	WL31	Reevesia thyrsoidea	大学	Mar-Apr	once annually	Fall	Oct Dec	
Mc1	1,1,1,2,1	Machilus chekiangensis	浙江潤楠	Feb-Mar	once annually	Fall	Oct - Dec	

Submission of Tree and Turf Grass Planting and Landscape Plans

Tree Pruning Schedule (Page 3 of 4)

Code	Nursery Species No.	Botanical Name	Chinese Name	Flowering & Friuting Periods	Pruning *(the exact pruning time & frequency depend on the actual situation)*			
	NO.				Frequency	Season	Month	
Trees								
Sd2	UF11	Saraca dives	無憂花	Apr-Oct	once annually	Fall	Oct - Dec	
Sad2	WL34	Sapium discolor	山烏桕	Apr-Oct	once annually	Fall	Oct - Dec	
Ssu2	WF13	Schima superba	木荷	Jun-Aug	once annually	Fall	Oct - Dec	
Sh2	WL36	Syzgium hancei	韓氏蒲桃	Jul-Sep	once annually	Fall	Oct - Dec	
TmT2	UF16	Terminalia mantaly 'Tricolor'	錦葉欖仁	-	once annually	Fall	Oct - Dec	
Vo3		Viburnum odoratissimum	珊瑚樹	Mar-Apr	once annually	Spring	Feb-Apr	
Bj1		Bischofia javanica	秋楓	Jun-Aug	once annually	Fall	Oct - Dec	
Bt2	WL09	Bridelia tomentosa	土蜜樹	Jan-Dec	once annually	Fall	Oct - Dec	
Cf2	WL11	Caesalpinia ferrea	巴西鐵木	Jun-Aug	once annually	Fall	Oct - Dec	
Cafi2		Castanopsis fissa	黧蒴錐	Apr-Dec	once annually	Fall	Oct - Dec	
Ct2	WL32	Crateva trifoliata	樹頭菜	Mar-Nov	once annually	Fall	Oct - Dec	
Fb1		Ficus benjamina	垂榕	Sep-Nov	once annually	Spring	Feb-Apr	
Fb2		Ficus benjamina	垂榕	Sep-Nov	once annually	Spring	Feb-Apr	
Fb3		Ficus benjamina	垂榕	Sep-Nov	once annually	Spring	Feb-Apr	
Fma2	WL39	Ficus macrophylla	澳洲大葉榕	May-Dec	once annually	Spring	Feb-Apr	
PL2	UF08	Polyalthia longifolia	長葉暗羅	Mar-Apr	once annually	Fall	Oct - Dec	
Pi2	WL30	Pterocarpus indicus	紫檀	May-Sep	once annually	Fall	Oct - Dec	
Pi3		Pterocarpus indicus	紫檀	May-Sep	once annually	Fall	Oct - Dec	
Ss2	WL33	Sapindus saponaria	無患子	May-Dec	once annually	Fall	Oct - Dec	
Sase1		Sapium sebiferum	烏桕	Apr-Nov	once annually	Fall	Oct - Dec	
Sase2	WL35	Sapium sebiferum	烏桕	Apr-Nov	once annually	Fall	Oct - Dec	
Tec2		Terminalia catappa	欖仁樹	Mar-Sep	once annually	Fall	Oct - Dec	
Tec3	WF12	Terminalia catappa	欖仁樹	Mar-Sep	once annually	Fall	Oct - Dec	
Td1		Taxodium distichum	落羽杉	Mar-Oct	once annually	Fall	Oct - Dec	
Td2		Taxodium distichum	落羽杉	Mar-Oct	once annually	Fall	Oct - Dec	
A.s.*	WL02	Alsophila spinulosa	刺桫欏	-	once annually	Fall	Oct - Dec	
FvS2	WL12	Ficus virens var. sublancelolata	黃葛樹	Apr-Oct	once annually	Spring	Feb-Apr	
C.b.	WL15	Cycas balansae	寬葉蘇鐵		once annually	Fall	Oct - Dec	
DDr2	WL18	Dracaena draco	龍血樹	-	once annually	Fall	Oct - Dec	
Ht2	WL23	Hibiscus tiliaceus	黃槿	Jul-Aug	once annually	Fall	Oct - Dec	
Vo2	WL38	Vibrunum odoratissimum	珊瑚樹	Mar-Aug	once annually	Fall	Oct - Dec	
C.m.	WL41	Ceratozamia mexicana	墨西哥蘇鐵	-	once annually	Fall	Oct - Dec	
Ap2	WF02	Acer palmatum Thunb	槭樹	Apr-Oct	once annually	Fall	Oct - Dec	
Ps2	WF05	Photinia serrulata Lindl.	石楠	Jun-Feb	once annually	Spring	Feb-Apr	
Pf2	WF06	Photinia fraseri	紅葉石楠	Dec-Feb	once annually	Spring	Feb-Apr	
Cj2	WF09	Camellia japonica	茶花	Jan-Oct	once annually	Fall	Oct - Dec	
SI2	WF14	Sterculia lanceolata	假蘋婆	Apr-Sep	once annually	Fall	Oct - Dec	
Tpo2	WF15	Thespesia populnea	紅葉黃槿	Jan-Dec	once annually	Fall	Oct - Dec	
Tm2	UF15	Terminalia mantaly	細葉欖仁	-	once annually	Fall	Oct - Dec	

Submission of Tree and Turf Grass Planting and Landscape Plans

Tree Pruning Schedule (Page 4 of 4)

Code	Nursery Species No.		Chinese Name	Flowering & Friuting Periods	Pruning *(the exact pruning time & frequency depend on the actual situation)*		
	NO.				Frequency	Season	Month
Trees							
Pg2	FT19	Psidium guajava	番石榴	Aug-Sep	once annually	Fall	Oct - Dec
Cr2		Citrus reticulata	柑橘	Apr-May	once annually	Fall	Oct - Dec
Csi2		Citrus sinensis	橙	Mar-May	once annually	Fall	Oct - Dec
Cm2		Citrus maxima	柚	Apr-May	once annually	Fall	Oct - Dec
Ma2		Melia azedarach	苦楝	Apr-May	once annually	Fall	Oct - Dec
Dw		Dombeya wallichii	吊芙蓉	Jan-Feb	once annually	Spring	Feb-Apr
Lcs		Lophostemon confertus	紅膠木	May-Jul	once annually	Fall	Oct - Dec
Pea		Phyllanthus emblica	餘甘子	Apr-Jun	once annually	Fall	Oct - Dec
Gr2		Grevillea robusta	銀樺	Mar-May	once annually	Fall	Oct - Dec
Sjp		Sophora japonica 'Pendula'	龍爪槐	Jul-Aug	once annually	Fall	Oct - Dec
Mg		Metasequoia glyptostroboides	水杉	Jan-Mar	once annually	Fall	Oct - Dec
Pts		Pandanus tectorius	露兜樹	May-Aug	once annually	Fall	Oct - Dec
Syj		Syzygium jambos	蒲桃	Mar-Apr	once annually	Fall	Oct - Dec
DK		Diospyros kaki	柿子	May-Jun	once annually	Fall	Oct - Dec
Palms			•				
Rr#		Roystonea regia	王棕	Mar-Apr	once annually	Fall	Oct - Dec
Wb2		Wodyeta bifurcata	狐尾椰子	-	once annually	Fall	Oct - Dec

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Design Consultancy for the Park Development for West Kowloon Cultural District Submission of Tree and Turf Grass Planting and Landscape Plans

APPENDIX E CONCEPTUAL LANDSCAPE PROPOSAL (For Reference Only)





