

MTR Corporation Limited

**Shatin to Central Link –
Mong Kok East to Hung Hom Section**

As-Built Drawings of Measures for Mitigating
Landscape and Visual Impacts and Tree Planting

[EP-437/2012/B]

(June 2024)



Verified by	:	Claudine Lee
<hr/>		
Position	:	Independent Environmental Checker
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Date	:	21 June 2024
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MTR Corporation Limited

**Shatin to Central Link –
Mong Kok East to Hung Hom Section**

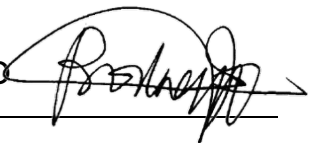
As-Built Drawings of Measures for Mitigating
Landscape and Visual Impacts and Tree Planting

[EP-437/2012/B]

(June 2024)

Verified by :

Rodney Ip



Position :

Environmental Team Leader

Date :

21 June 2024

MTR Corporation Limited

**Shatin to Central Link –
Mong Kok East to Hung Hom Section**

As-Built Drawings of Measures for Mitigating
Landscape and Visual Impacts and Tree Planting

[EP-437/2012/B]

(June 2024)

Prepared by : 
Toby Chan

Position : Certified Arborist (HK-0679AM)

Date : 21 June 2024

1. Submission Summary of As-Built Drawings for Landscape and Visual Mitigation Measures

Area	Location	Type of Mitigation Measures	Drawing No.	Reference Drawing No. in Approved VLTP	Remarks	Handover Information
Ho Man Tin Area	Noise Mitigation Measures at Portal 1A	OM1, OM2c	Drawing No. 3460C02	Annex B - 3460C02	Previously submitted to EPD in Mar 2022 and approved on May 2022.	Handed over to MTR Operation Team in Q4 2018
		OM1	Drawing No. 3460C03	Annex B - 3460C03	Previously submitted to EPD in Mar 2022 and approved on May 2022.	Handed over to MTR Operation Team in Q4 2018
Hung Hom Station and Stabling Siding	North Side Ventilation Shaft (NSVS)	OM2a/HHS, OM3/HHS, OM8/HHS	1112/W/HUH/ATK/A12/J39 1112/W/HUH/ATK/A14/022	Annex B - 1112/W/HUH/ATK/A12/J39/C 1112/W/HUH/ATK/A14/022/C	Previously submitted to EPD in Mar 2022 and approved on May 2022.	Handed over to MTR Operation Team in Q1 2021
	South Side Ventilation Shaft (SSVS)	OM2a/HHS, OM2b/HHS, OM3/HHS, OM8/HHS	1112/W/HUH/ATK/A58/053 1112/W/HUH/ATK/A14/023 1112/W/HUH/ATK/A14/024	Annex B - 1112/W/HUH/ATK/A58/053/A 1112/W/HUH/ATK/A14/023/C 1112/W/HUH/ATK/A14/024/B	Previously submitted to EPD in Mar 2022 and approved on May 2022.	Handed over to MTR Operation Team in Q1 2021
	CLP Transformer Plant	OM3/HHS	1112/W/HUH/ATK/A12/F30 1112/W/HUH/ATK/A14/061 1112/W/HUH/ATK/A14/062	Annex B - 1112/W/HUH/ATK/A12/F30/D 1112/W/HUH/ATK/A14/061/C 1112/W/HUH/ATK/A14/062/C	Previously submitted to EPD in Mar 2022 and approved on May 2022.	Handed over to CLP in Q1 2017
	Cooling Tower	OM1, OM2a, OM2b, OM2c, OM3	1112/W/000/ATK/A58/051 1112/W/HUH/ATK/A14/041 1112/W/HUH/ATK/A14/042 C1106/B/000/ATK/C04/353	Annex B - 1112/W/000/ATK/A58/051/A 1112/W/HUH/ATK/A14/041/D 1112/W/HUH/ATK/A14/042/D C1106/B/000/ATK/C04/353/F	Previously submitted to EPD in Mar 2022 and approved on May 2022.	Handed over to MTR Operation Team in Q1 2021
Kai Tak Area	Kai Tak Station Square	Offsite compensatory planting	AB/7768/EW102b AB/7768/EW104b AB/7768/EW105b	Annex E - 437/KAT/001	Submitted under current submission	Handed over to LCSD in Q1 2024
Track Side Area	North Fan Area (NFA)	Alternative compensatory planting	C1106/B/000/ATK/C04/358	Annex E - North Fan Area	Submitted under current submission	Planting implemented in Q4 2023 and will hand over to MTR Operation Team after the completion of establishment period.

2. Transplanted Trees

Area	Location	Drawing No.	Remarks
Ho Man Tin Area	Chatham Rd Roadside Amenity Area	SCL/HUH/CM2a/001	Previously submitted to EPD in Mar 2022 and approved on May 2022.

2 Explanatory Statement to Demonstrate Compliance

Under Condition 2.14 of the Environmental Permit no. EP-437/2012/A for the Shatin to Central Link – Mong Kok East to Hung Hom Section [SCL(MKK-HUH)], the as-built drawing(s) on landscape and visual mitigation measures with an explanatory statement showing the final locations, size, number and species of planting to demonstrate compliance with the approved submissions under Condition 2.11 of the SCL(MKK-HUH) EP shall be deposited with the Director of EPD. The as-built submission shall be certified by the ET Leader and verified by the IEC that the Visual, Landscape, Tree Planting and Tree Protection Plan (VLTP) approved under Condition 2.11 has been fully and properly implemented.

According to the approved VLTP, the proposed landscape and visual mitigation measures have been implemented at different area of SCL(MKK-HUH) as follows:

2.1 Noise Mitigation Measures at Portal 1A

Aesthetic landscape and architectural treatment (OM1)

The roof had a chamfer on both long edges reducing the top roof width and making it less bulky on the top. The metal deck cladding was aluminium with non-reflective powder coating. The cladding was also enhanced by a white fascia panel at each segment step. The cladding colour gradually changed from dark green to light green.

Bamboo planting (OM2c)

Bamboos were planted at the planters East and West side of the noise enclosure to create a hedge effect camouflaging the bulk of the noise enclosure, and to soften the visual impact of the wall and roof structure.

2.2 North Side Ventilation Shaft (NSVS)

Screen planting (OM2a/HHS)

Screen planting in form of shrubs were planted at the NSVS to minimize the potential visual impact.

Aesthetic landscape and architectural treatment (OM3/HHS)

The building form, height and bulk of ventilation shafts were softened visually by the selection of a palette of materials and integrated landscaping. Stainless steel metal, galvanized steel and concrete with mineral silicate paint adopting neutral colour to minimize visual impact were implemented at the NSVS.

Roof greening (OM8/HHS)

Green roof had been provided for the NSVS to minimize the visual impact.

2.3 South Side Ventilation Shaft (SSVS)

Screen planting (OM2a/HHS)

Screen planting in form of shrubs were planted at the SSVS to minimize the potential visual impact.

Landscape re-instatement (OM2b/HHS)

Landscape elements near the SSVS that was temporarily disturbed during construction phase had been re-instated to enhance the urban environment.

Aesthetic landscape and architectural treatment (OM3/HHS)

The building form, height and bulk of ventilation shafts were softened visually by the selection of a palette of materials and integrated landscaping. Aluminium stainless steel metal, galvanized steel, PVDF coating and concrete with mineral silicate paint to minimize visual impact were implemented at the SSVS.

Green roof (OM8/HHS)

Green roof had been provided for the SSVS to minimize the visual impact.

2.4 CLP Transformer Plant

Aesthetic landscape and architectural treatment (OM3/HHS)

The integration of the CLP transformer plant structure underneath the Cheong Wan Road viaduct reduced the usage of existing open areas and minimized the visual impact. Concrete with mineral silicate paint to minimize visual impact were implemented at the CLP transformer plant.

2.5 Cooling Tower

Aesthetic landscape and architectural treatment (OM1)

To minimize the adverse visual impacts, the cooling tower structure only occupied a very narrow footprint, and only one-storey high so as to not exceeding the top level of existing portal structure and ventilation shafts. The steel mesh of the cladding treatment offered a visual continuity and blended this structure well into the surrounding.

Climbers planting (OM2a)

Climbers were planted at the planter around the cooling tower to provide vertical screening of the structure.

Trees and shrubs planting (OM2b)

Trees and shrubs were planted at the planter around the cooling tower to strengthen the adjacent landscape and visual amenity of the area.

Bamboo planting (OM2c)

Strips of bamboo was planted along the boundary and at the frontage of the cooling tower to strengthen the adjacent landscape and visual amenity of the area.

Green roof (OM3)

Green roof was implemented at the middle block of the cooling tower's roof to blend the structure into the surrounding.

2.6 Track Side Area (NFA)

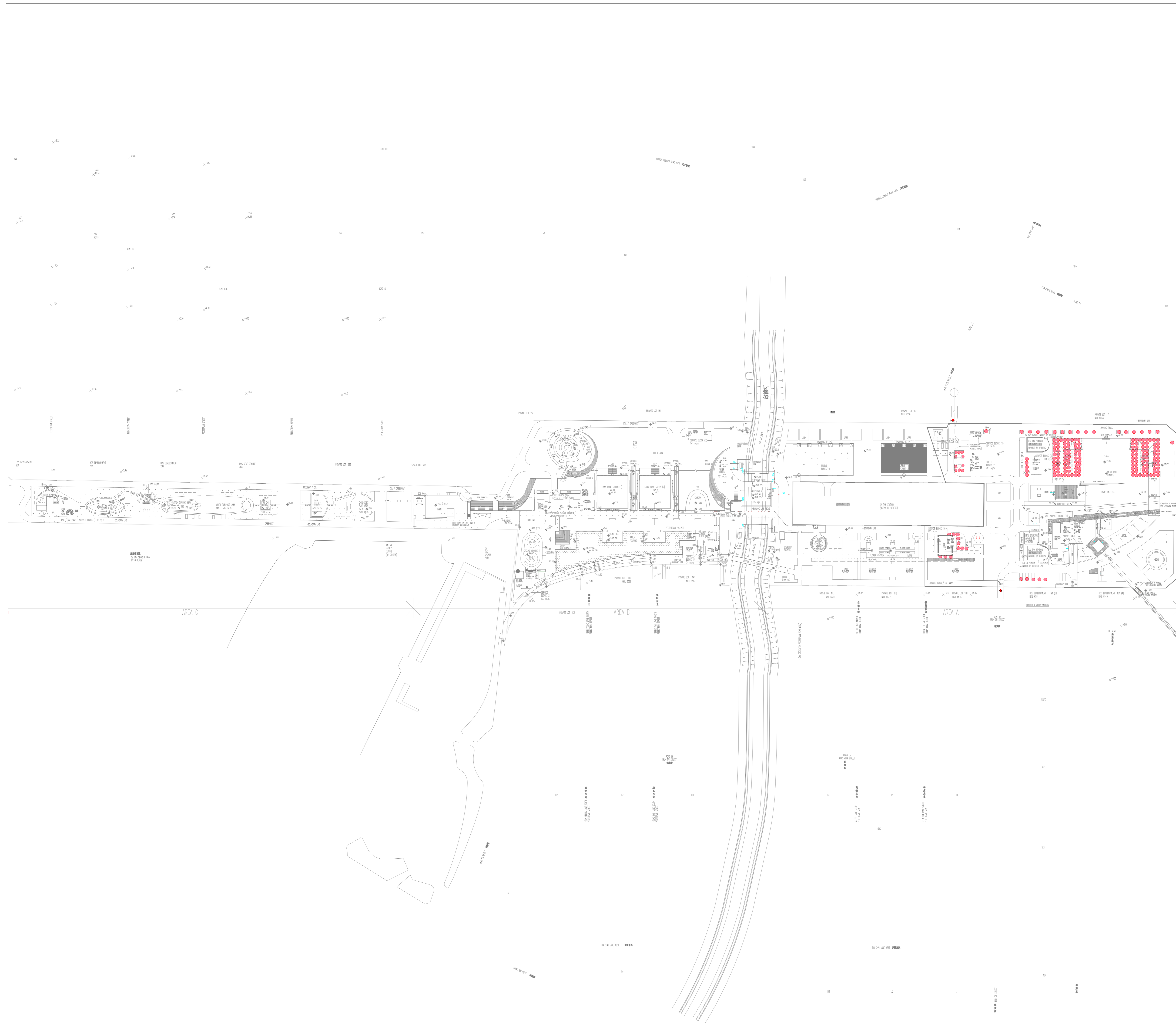
Alternative Compensatory Planting

Despite different planting compensation opportunities were explored throughout design and construction phase of the Project, shortfall of tree compensation was still identified. Therefore, alternative offsite compensatory planting is proposed to compensate for the loss of amenity value from the shortfall.. The proposed compensatory planting of additional tree seedlings along a strip of uncultivated land at the trackside area (NFA) in Hung Hom for shortfall of compensatory planting in the Project to maintain amenity value in local area.

LEGENDS

○ COMPENSATORY TREE AT EP437

Total tree in EP-437 =190



Drawing Title
TREE LAYOUT PLAN
Location
STATION SQUARE AT KAI TAK

TREE CODE	BOTANICAL NAME	CHINESE NAME	QUANTITY (NOS.)	DBH (mm)	HEIGHT (mm)	SPREAD (mm)	SPACING (mm)	REMARKS
Cic	CINNAMOMUM CAMPHORA	香樟	13	250	6000	3500	AS SHOWN	SPECISEMEN QUALITY, UPRIGHT TRUNK, MIN. 2.5m CLEAR TRUNK HEIGHT, SYMMETRIC FORM
Fib1	FICUS BENJAMINA1	垂葉榕1	104	150	5500	3500	3500	CLIPPED AS TOPIARY FORM, SINGLE UPRIGHT TRUNK, MIN. 2.2m CLEARANCE
Fib3	FICUS BENJAMINA3	垂葉榕3	36	150	5500	3500	AS SHOWN	NATURAL FORM, SINGLE UPRIGHT TRUNK, MIN. 2.2m CLEARANCE

- NOTES
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWINGS NO. AB/7768/EW101 TO AB/7768/EW118 AND GENERAL SPECIFICATION FOR BUILDING 2017 EDITION.
 - CONTRACTOR SHALL GRADE THE SOIL TO THE REQUIRED SOIL LEVELS AND CONTOURS AS PER SOILING PLAN, ALLOWED FOR SETTLEMENT AND OVERALL EVEN COMPACTION.
 - CONTRACTOR SHALL BACKFILL TOP 1200MM IN TREE PITS AND TREE PLANTING AREA, 600MM IN SHRUB, 450MM IN BAMBOO / GROUND COVER AND 300MM IN GRASS / TURF AREAS WITH FABRICATED SOIL MIX IN ACCORDANCE WITH GS 25.02 AND PS(LA)1.
 - PREPARE THE PLANT MATERIALS AND CARRY OUT PLANT ACCORDING TO GS 25.25-25.59. & P.S.
 - SPREAD MULCH 50MM THICK FOR ALL PLANT AREA EXCEPT LAWN AREA AFTER PLANTING IN ACCORDANCE WITH GS 25.29(c) OF GENERAL SPECIFICATION FOR BUILDING 2017 EDITION.
 - ALL PLANT MATERIALS SHALL BE PLANTED ACCORDING TO THE SPACING AS SPECIFIED, QUANTITY SHOWN ON DRAWINGS IS INDICATIVE.
 - SUPPLY AND FIX PLANT LABELS ACCORDING TO DRAWINGS NO. AB/7768/EW117 & AB/7768/EW118.
 - CARRY OUT 24 MONTHS ESTABLISHMENT WORKS UPON THE COMPLETION OF LANDSCAPE SOFT WORK.
 - TREES MUST BE PLANTED MIN 1m AWAY FROM THE KERB AND THE FIXTURE.
 - CONTRACTOR TO PREPARE SETTING OUT OF TREE AND SHRUBS ON SITE FOR ARCHITECT'S APPROVAL PRIOR TO INSTALLATION.
 - BEFORE BACKFILLING OF SOIL-MIX, THE BASE SHALL BE CLEAR OF RUBBISH/DUMPING MATERIAL AND ALLOW FREE DRAIN OF WATER.

- LEGENDS
- SITE BOUNDARY LINE
 - NEW TREE
 - Inc CODE OF TREE
 - 123 NO. OF TREE

AI A-021

b	04/2021	1. REVISED AS CLOUDED	LA/7
a	08/2020	1. REVISED AS CLOUDED	LA/7

REVISION	name	date
designed	MICHELLE YU	07/2018
drawn	MICHELLE YU/K.M. HO	07/2018
checked	K.M. HO	07/2018
approved		
Chief Architect	SIGNED M.C. CHUNG/CA2	07/2018
Senior Architect	SIGNED P.Y.L/SA25	07/2018
Project Landscape Architect	SIGNED MICHELLE YU/LA1	07/2018

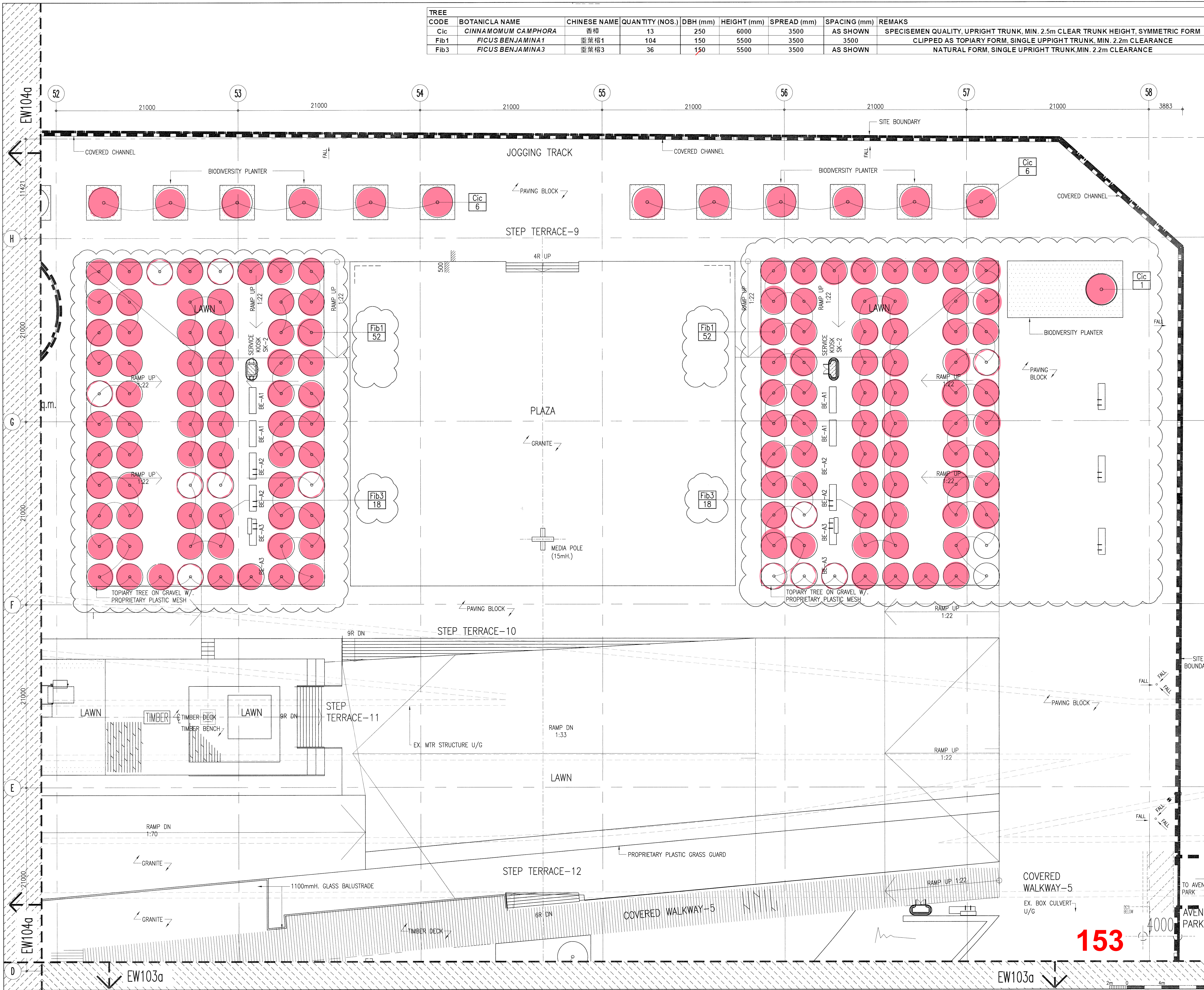
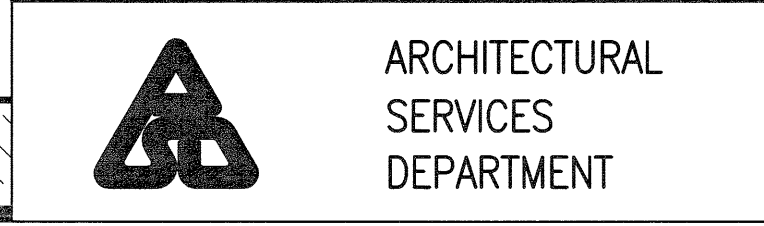
contract no.	SS 6506
file no.	
project no.	467R0
contract	

CONSTRUCTION OF STATION SQUARE AT KAI TAK - PHASE 1

drawing title
TREE LAYOUT PART PLAN
(SHEET 1 OF 4)

drawing no.	AB/7768/EW102b	scale	1:200 (A1) 1:400 (A3)
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office
ARCHITECTURAL BRANCH



153

TREE CODE	BOTANICAL NAME	CHINESE NAME	QUANTITY (NOS.)	DBH (mm)	HEIGHT (mm)	SPREAD (mm)	SPACING (mm)	REMARKS
Cic	CINNAMOMUM CAMPHORA	香樟	5	250	6000	3500	AS SHOWN	SPECISEMEN QUALITY, UPRIGHT TRUNK, MIN. 2.5m CLEAR TRUNK HEIGHT, SYMMETRIC FORM
Fib2	FICUS BENJAMINA2	垂葉榕2	10	150	5500	3500	3500	CLIPPED AS TOPIARY FORM, SINGLE UPRIGHT TRUNK, MIN. 2.2m CLEARANCE
Pyc	PYRUS CALLERYANA	豆梨	5	100	4000	2500	4000	PER SPECIFIED UNIFIED FORM

- NOTES
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LEGENDS

---	SITE BOUNDARY LINE
○	NEW TREE
Inc	CODE OF TREE
12.5	NO. OF TREE

AIA-021

no.	date	description	initial
b	04/2021	1. REVISED AS CLOUDED	SA/25
a	08/2020	1. REVISED AS CLOUDED	SA/25

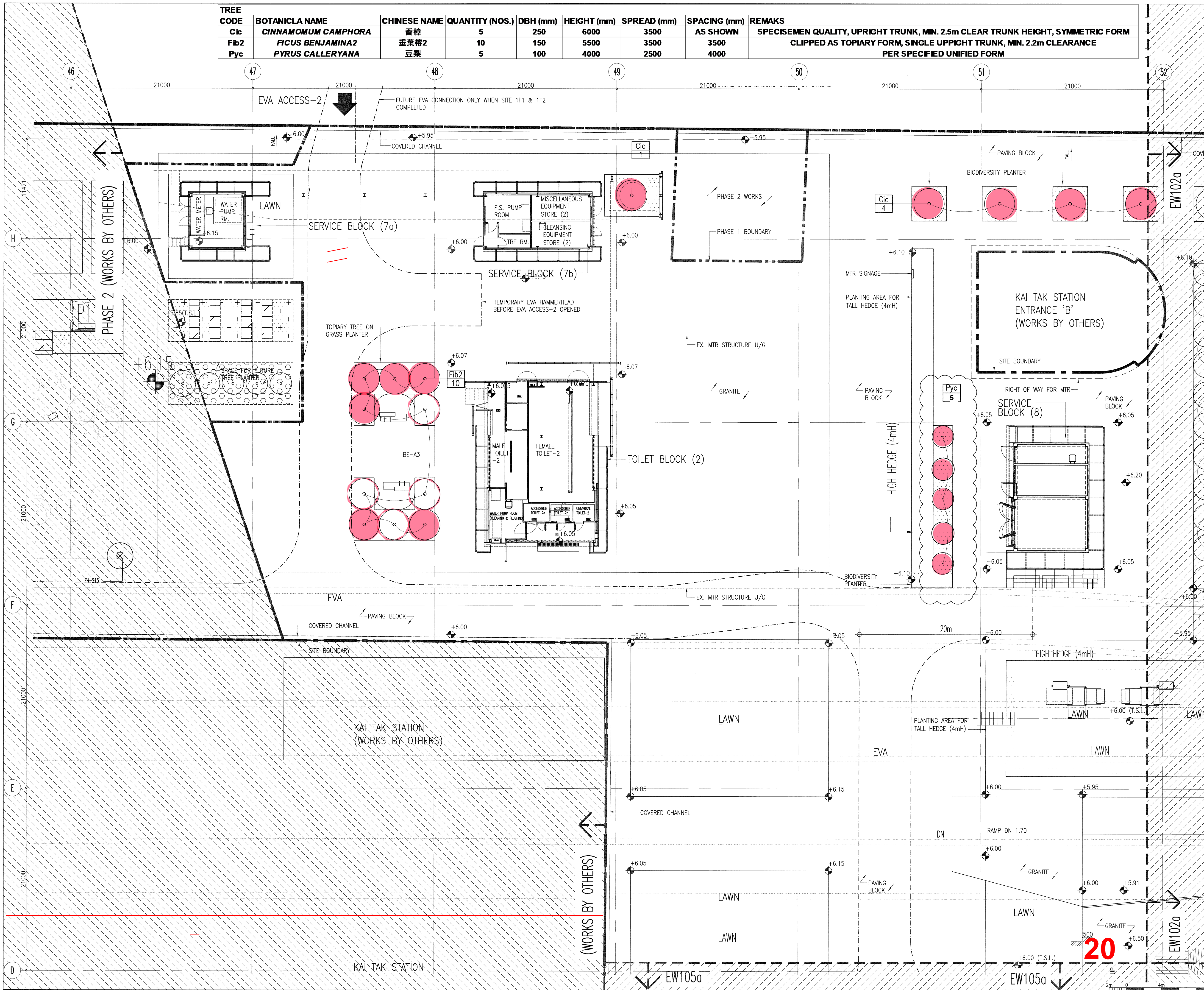
DESIGNED	MICHELLE YU	07/2018
DRAWN	MICHELLE YU/ K.M. HO	07/2018
CHECKED	K.M. HO	07/2018
APPROVED	SIGNED M.C. CHUNG/CA2	07/2018
Senior Architect	SIGNED P.Y. LI/SA25	07/2018
Project Landscape Architect	SIGNED MICHELLE YU/LA1	07/2018

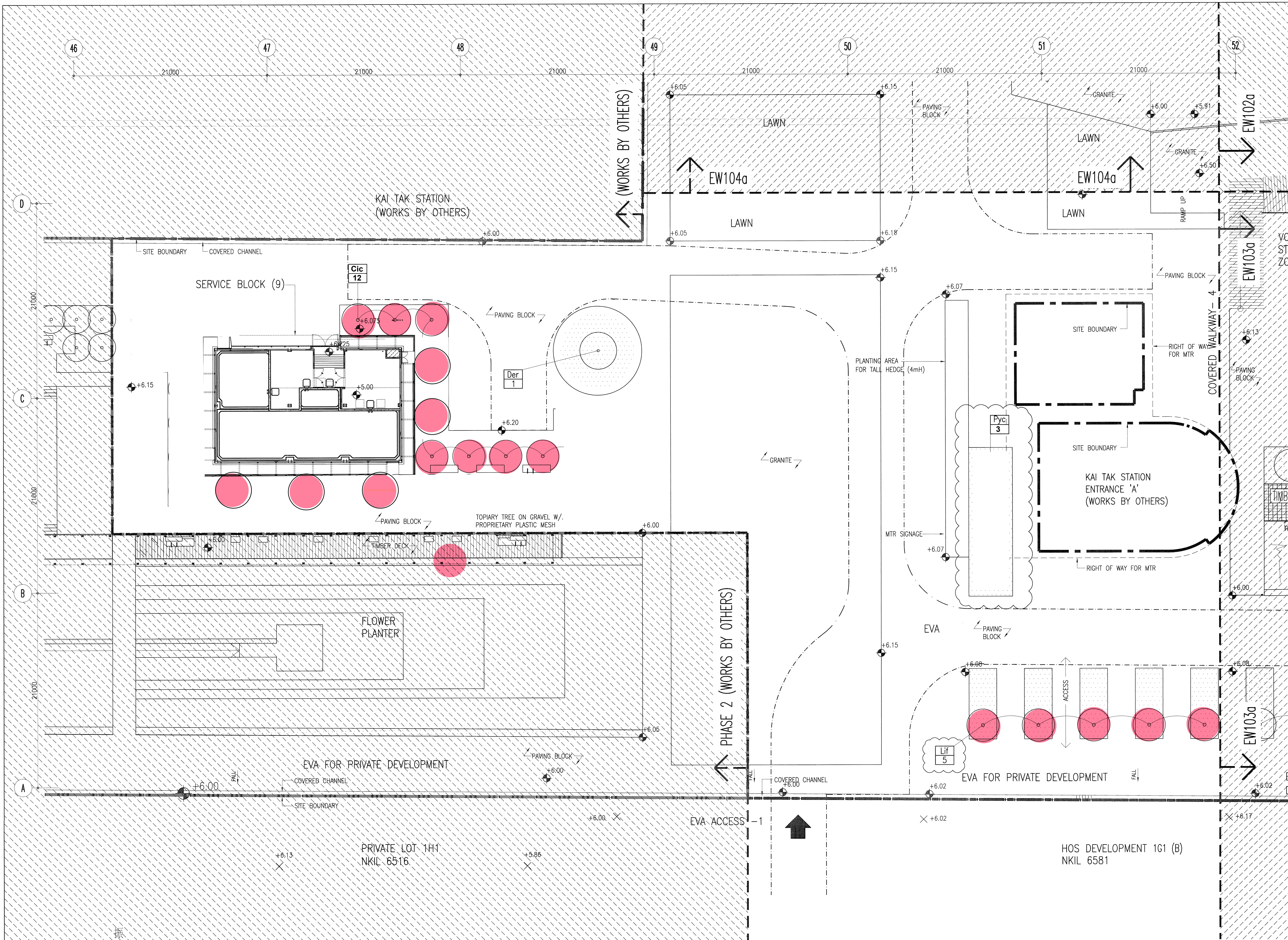
CONSTRUCTION OF STATION SQUARE AT KAI TAK - PHASE 1

TREE LAYOUT PART PLAN
(SHEET 3 OF 4)

drawing no. AB/7768/EW104b
scale 1:200 (A1)
1:400 (A3)

office ARCHITECTURAL BRANCH





- NOTES
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LEGENDS

- SITE BOUNDARY LINE
- NEW TREE
- CODE OF TREE
- 123 NO. OF TREE

AIA-021

no.	date	description	initial
b	04/2021	1. REVISED AS CLOUDED	LA/7
a	08/2020	1. REVISED AS CLOUDED	SA/25

REVISION	name	date
designed	MICHELLE YU	07/2018
drawn	MICHELLE YU/K.M. HO	07/2018
checked	K.M. HO	07/2018
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Project Landscape Architect	SIGNED MICHELLE YU/LA1	07/2018

contract no.	SS C506
file no.	
project no.	467R0
contract	

CONSTRUCTION OF STATION SQUARE AT KAI TAK - PHASE 1

drawing title

TREE LAYOUT PART PLAN

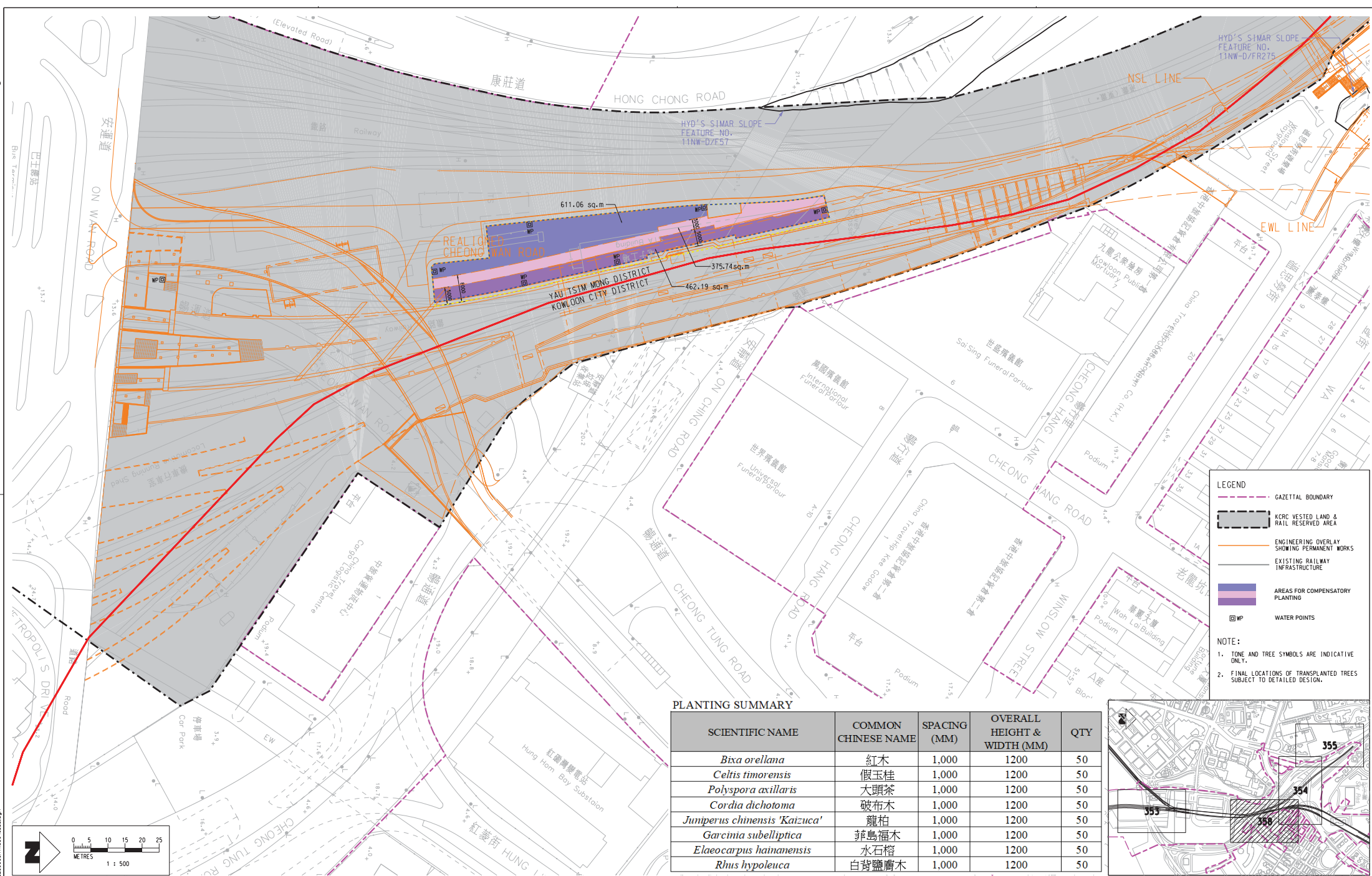
(SHEET 4 OF 4)

drawing no.	scale
AB/7768/EW105b	1:200 (A1) 1:400 (A3)

TREE CODE	BOTANICAL NAME	CHINESE NAME	QUANTITY (NOS.)	DBH (mm)	HEIGHT (mm)	SPREAD (mm)	SPACING (mm)	REMARKS
Lif	LIQUIDAMBAR FORMOSANA	楓香	5	150	5000	3500	AS SHOWN	UNIFIED FORM WITH UPRIGHT SINGLE TRUNK, MIN. CLEARANCE 2.2m
Cic	CINNAMOMUM CAMPHORA	香樟	12	250	6000	3500	AS SHOWN	SPECISEMEN QUALITY, UPRIGHT TRUNK, MIN. 2.5m CLEAR TRUNK HEIGHT, SYMMETRIC FORM

17





LEGEND

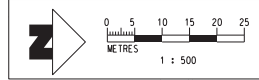
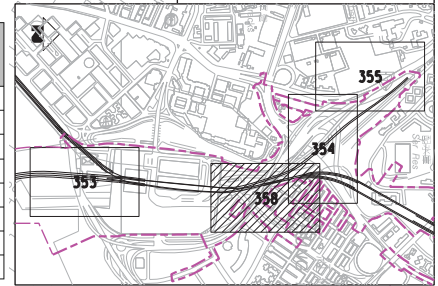
- GAZETAL BOUNDARY
- KCR VESTED LAND & RAIL RESERVED AREA
- ENGINEERING OVERLAY SHOWING PERMANENT WORKS
- EXISTING RAILWAY INFRASTRUCTURE
- AREAS FOR COMPENSATORY PLANTING
- WATER POINTS

NOTE:

1. TONE AND TREE SYMBOLS ARE INDICATIVE ONLY.
2. FINAL LOCATIONS OF TRANSPLANTED TREES SUBJECT TO DETAILED DESIGN.

PLANTING SUMMARY

SCIENTIFIC NAME	COMMON CHINESE NAME	SPACING (MM)	OVERALL HEIGHT & WIDTH (MM)	QTY
<i>Bixa orellana</i>	紅木	1,000	1200	50
<i>Celtis timorensis</i>	假玉桂	1,000	1200	50
<i>Polyspora axillaris</i>	大頭茶	1,000	1200	50
<i>Cordia dichotoma</i>	破布木	1,000	1200	50
<i>Juniperus chinensis 'Kaizuca'</i>	龍柏	1,000	1200	50
<i>Garcinia subelliptica</i>	菲島福木	1,000	1200	50
<i>Elaeocarpus hainanensis</i>	水石榕	1,000	1200	50
<i>Rhus hypoleuca</i>	白背鹽膚木	1,000	1200	50



REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	AC
DESIGNED	FL
CHECKED	TD
APPROVED	AD
DATE	28/FEB/2018

MTR

SHATIN TO CENTRAL LINK

ATKINS

Supported by
Aedas, PBA,
Urbis, Widnell

CADD REF. C1106_B_000_ATK_C04_358.dgn

TITLE: CONSULTANCY AGREEMENT No. C1106
 AS-BUILT DRAWING PLAN FOR
 KCR VESTED LAND
 SHEET 6

SCALE: 1 : 500 (A1)

DRAWING NO. C1106/B/000/ATK/C04/358

REV. 0