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

(March 2022)

Verified by	/: <u>Claudine Lee</u>
Position: _	Independent Environmental Checker
Date:	11 March 2022

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

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Certified by:	Lisa Poon
Position:	Environmental Team Leader
Date:	11 Mar 2022

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

Area	Location	Type of Mitigation Measures	Drawing No.	Reference Drawing No.	Remarks	Handover Information
				in Approved VLTTP		
		OM1, OM2c	Drawing No. 3460C02	Annex B - 3460C02	Submitted under current submission	Handed over to MTR Operation Team in Q4 2018
	Measures at Portal 1A	OM1	Drawing No. 3460C03	Annex B - 3460C03	Submitted under current submission	Handed over to MTR Operation Team in Q4 2018
Hung Hom Station and	North Side Ventilation	OM2a/HHS, OM3/HHS, OM8/HHS	1112/W/HUH/ATK/A12/J39	Annex B - 1112/W/HUH/ATK/A12/J39/C	Submitted under current submission	Handed over to MTR Operation Team in Q1 2021
Stabling Siding	Shaft (NSVS)		1112/W/HUH/ATK/A14/022	1112/W/HUH/ATK/A14/022/C		
	South Side Ventilation	OM2a/HHS, OM2b/HHS, OM3/HHS,	1112/W/HUH/ATK/A58/053	Annex B - 1112/W/HUH/ATK/A58/053/A	Submitted under current submission	Handed over to MTR Operation Team in Q1 2021
	Shaft (SSVS)	OM8/HHS	1112/W/HUH/ATK/A14/023	1112/W/HUH/ATK/A14/023/C		
			1112/W/HUH/ATK/A14/024	1112/W/HUH/ATK/A14/024/B		
	CLP Transformer	OM3/HHS	1112/W/HUH/ATK/A12/F30	Annex B - 1112/W/HUH/ATK/A12/F30/D	Submitted under current submission	Handed over to CLP in Q1 2017
	Plant		1112/W/HUH/ATK/A14/061	1112/W/HUH/ATK/A14/061/C		
			1112/W/HUH/ATK/A14/062	1112/W/HUH/ATK/A14/062/C		
	Cooling Tower	OM1, OM2a, OM2b, OM2c, OM3	1112/W/000/ATK/A58/051	Annex B - 1112/W/000/ATK/A58/051/A	Submitted under current submission	Handed over to MTR Operation Team in Q1 2021
			1112/W/HUH/ATK/A14/041	1112/W/HUH/ATK/A14/041/D		
			1112/W/HUH/ATK/A14/042	1112/W/HUH/ATK/A14/042/D		
			C1106/B/000/ATK/C04/353	C1106/B/000/ATK/C04/353/F		
Ha Fa Shan	Ha Fa Shan	Offsite compensatory planting	TBC	Annex E - Ha Fa Shan Drawing	TBC	TBC

1b. Suplementary Information

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	Area	Location	Type of Mitigation Measures	Drawing No.		
	Hung Hom	Chatham Rd Roadside	CM2a	SCL/HUH/CM2A/001		
		Amenity Area				

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 (VLTTP) approved under Condition 2.11 has been fully and properly implemented.

According to the approved VLTTP, 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 facia 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.

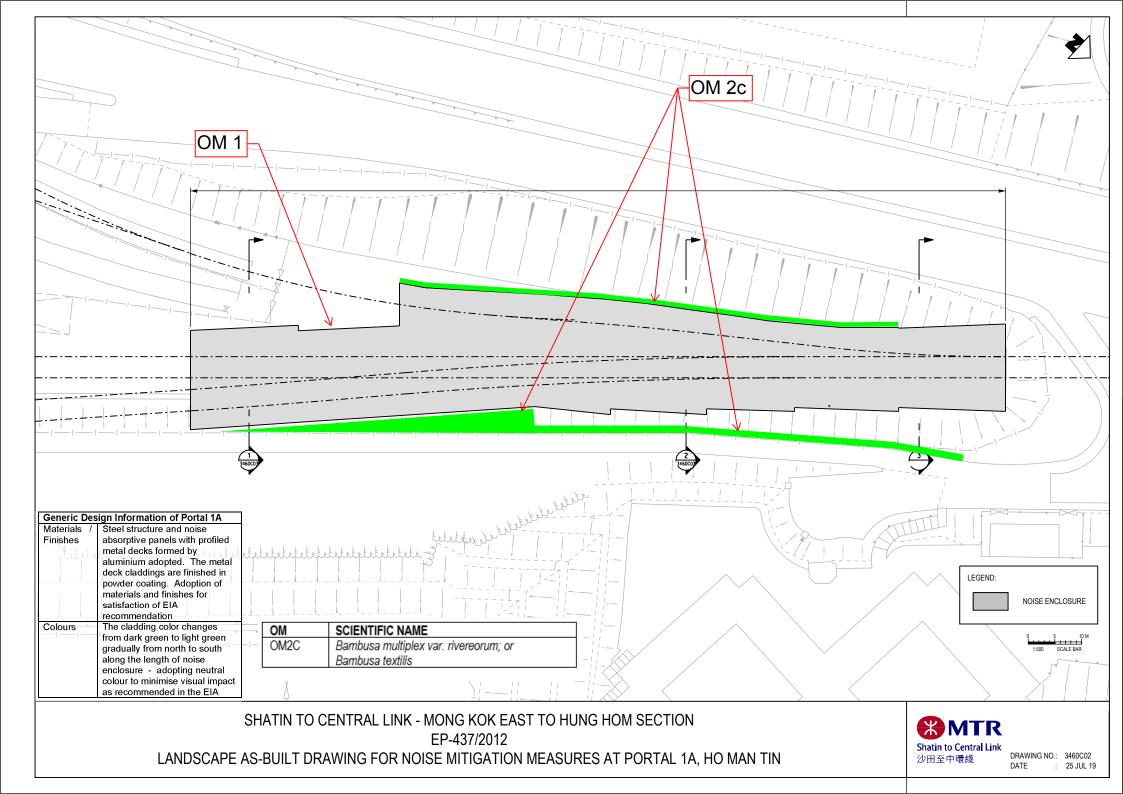
Green roof (OM3)

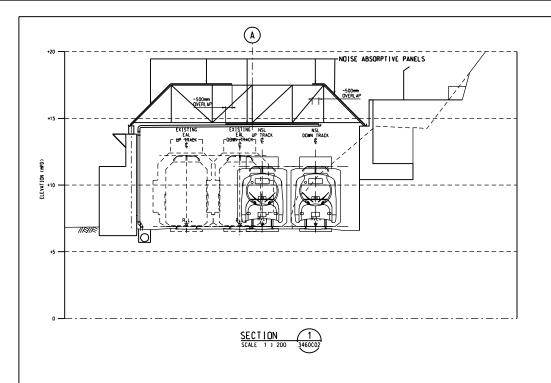
Green roof was implemented at the middle block of the cooling tower's roof to blend the structure into the surrounding.

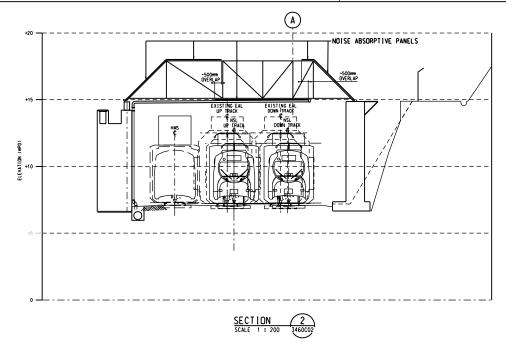
2.6 Ha Fa Shan

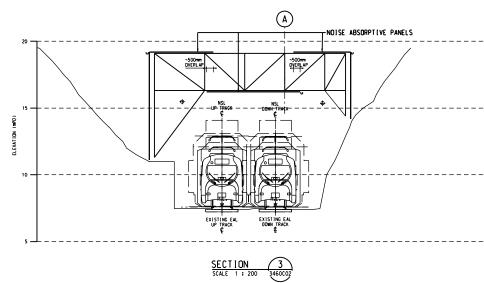
Offsite Compensatory Planting

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 at Ha Fa Shan (HFS) not only improve the landscape value at the fringe of the country park but also help to arrest further soil erosion, benefiting general public especially country park visitors. It is anticipated that the compensatory planting at HFS would commence in 2023 by stages tentatively.









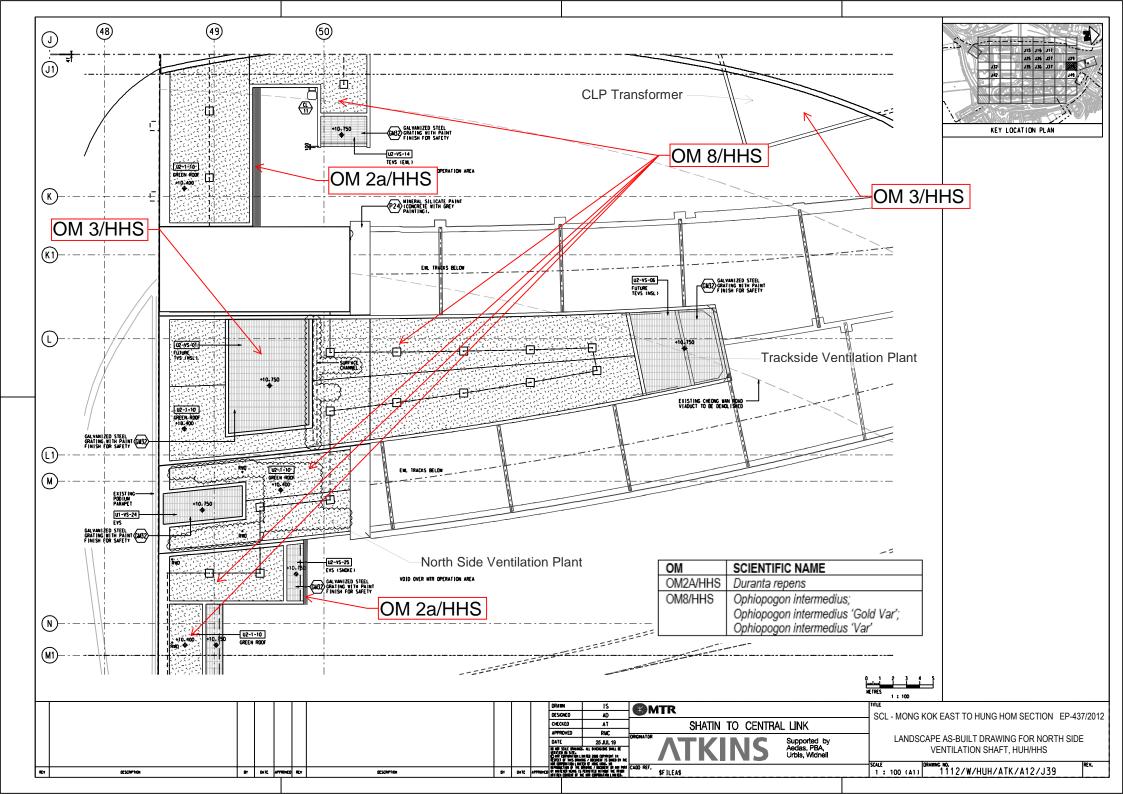
Note: Noise enclosure at Portal 1A is a steel structure and rest on top of the supporting walls (retaining walls by concrete in grey) on East and West sides of the rail tracks. Roof cladding consists of noise absorptive panels with profiled metal decks formed by aluminium. The metal deck cladding are finished in powder coating and the cladding colour changes from dark green to light green gradually from north to south along the length of noise enclosure.

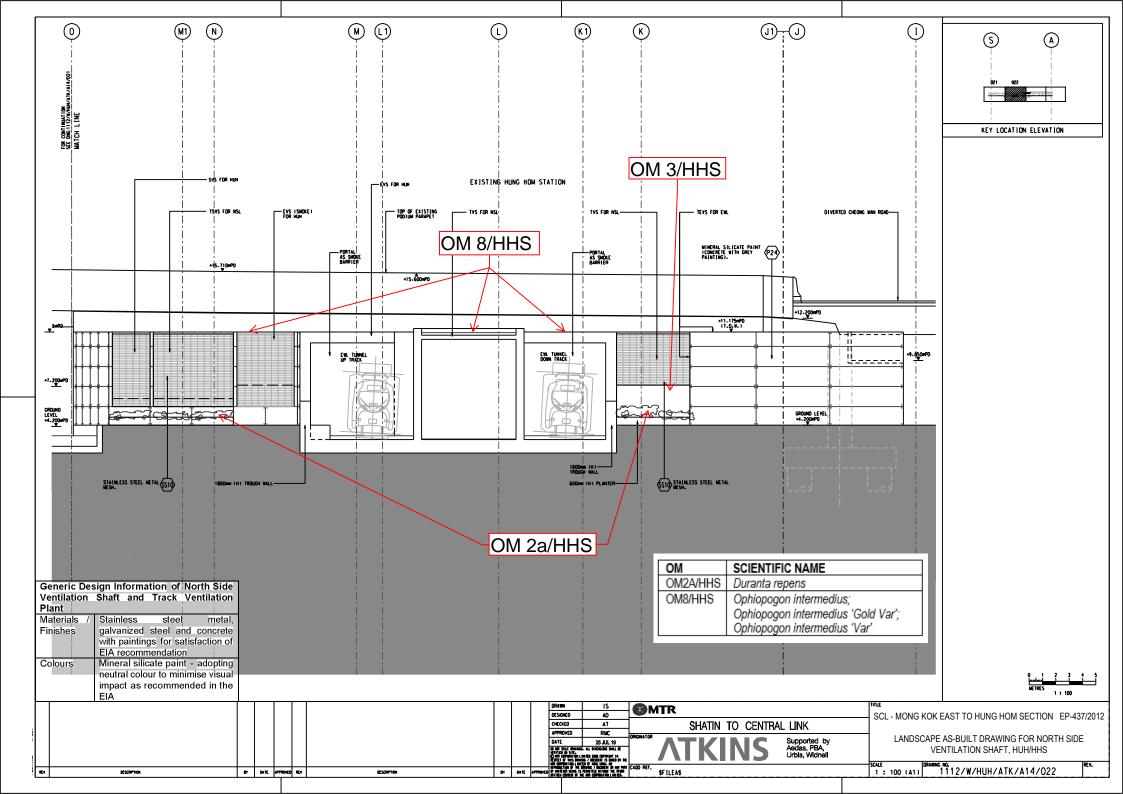


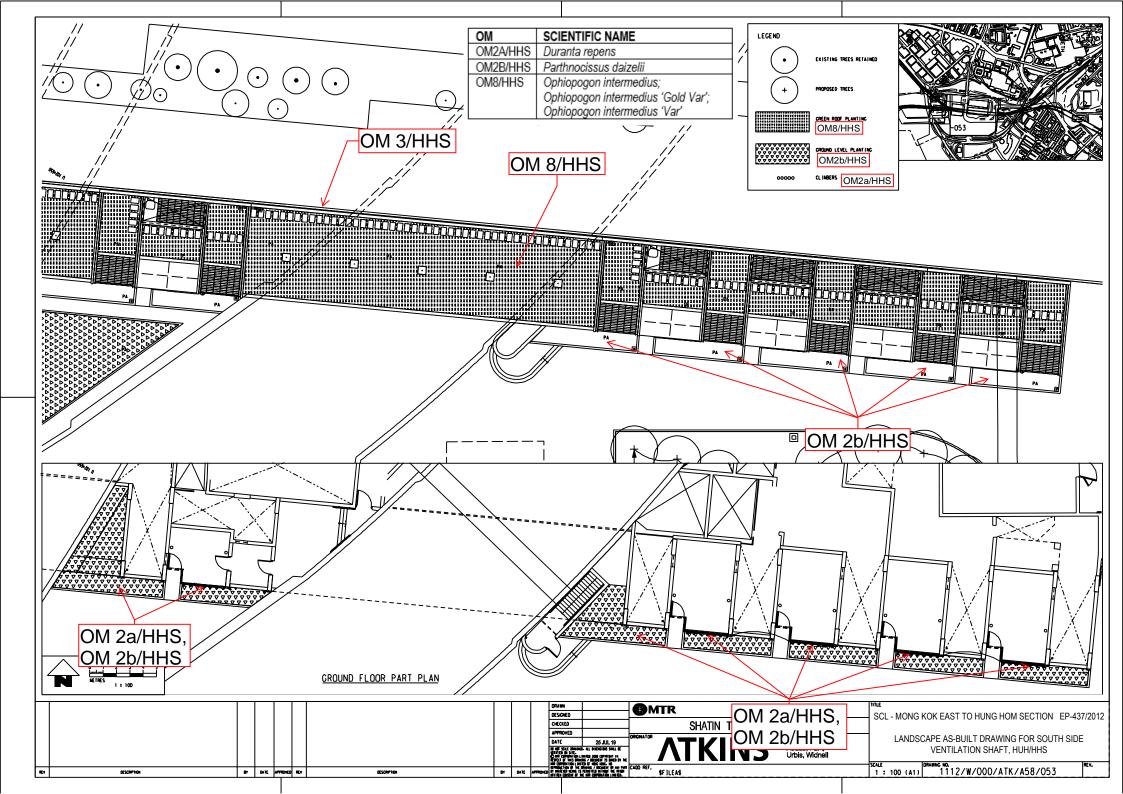
SHATIN TO CENTRAL LINK - MONG KOK EAST TO HUNG HOM SECTION EP-437/2012 LANDSCAPE AS-BUILT DRAWING FOR NOISE MITIGATION MEASURES AT PORTAL 1A, HO MAN TIN

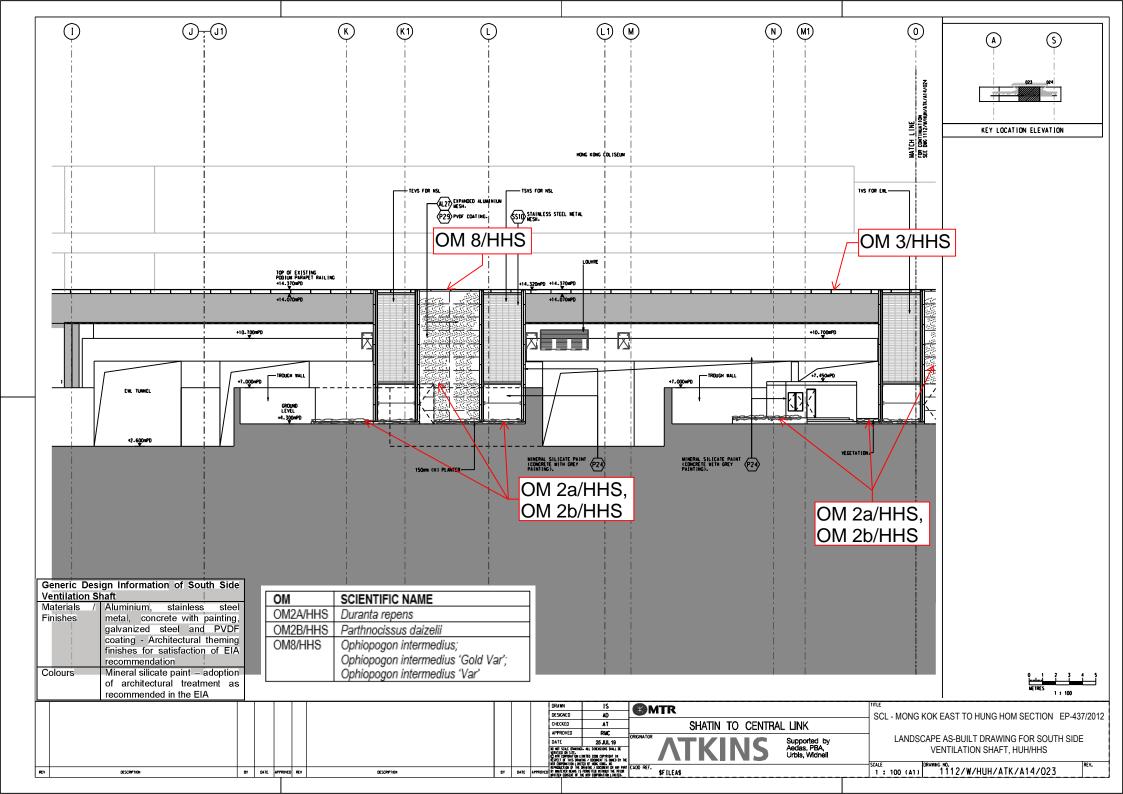


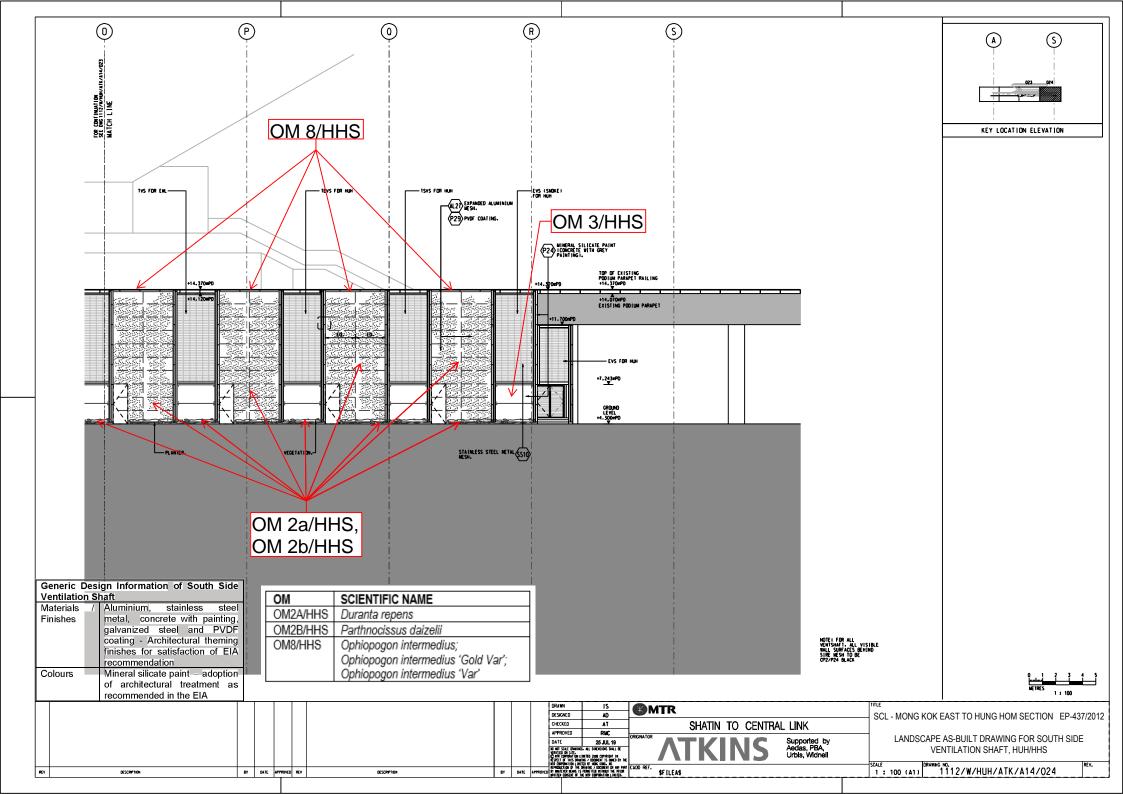
DRAWING NO.: 3460C02

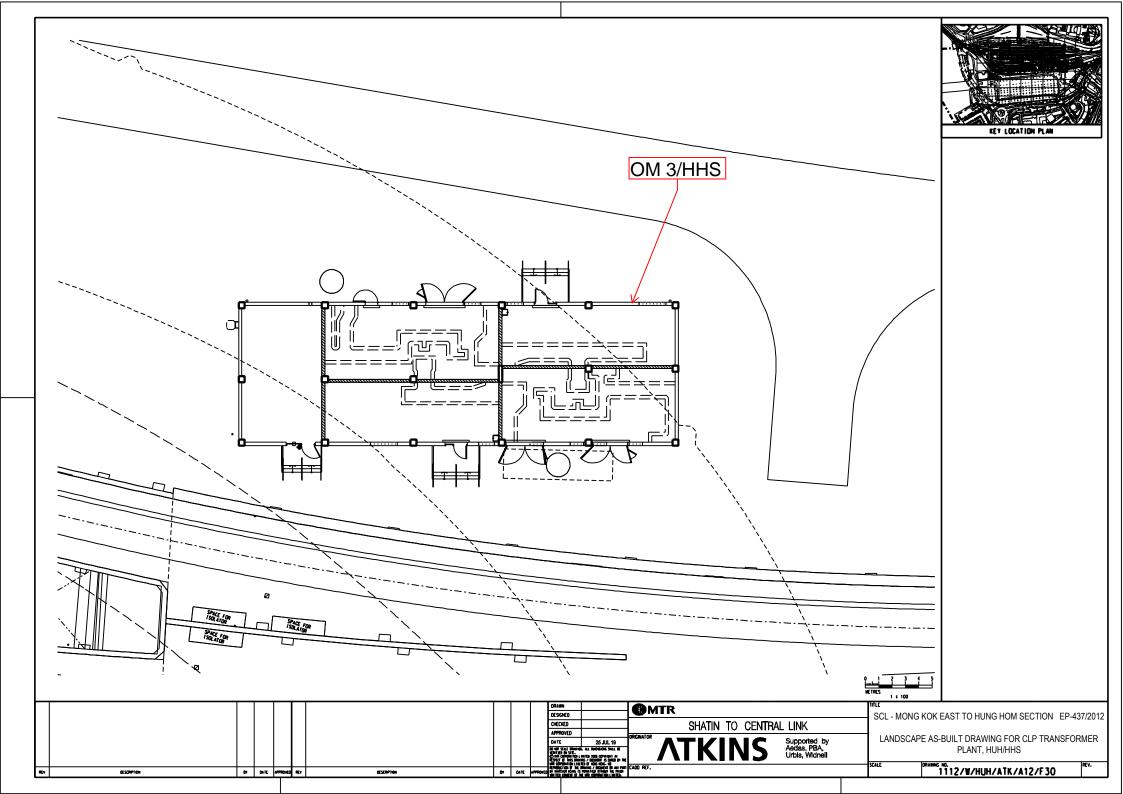


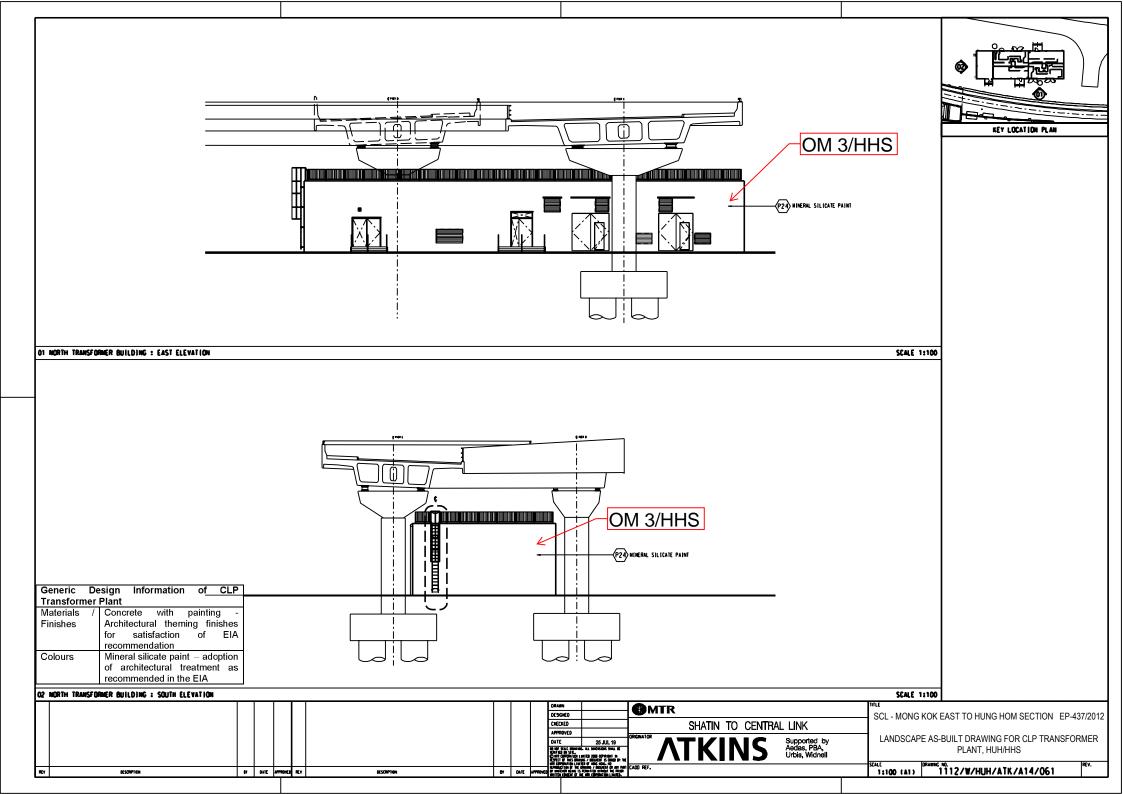


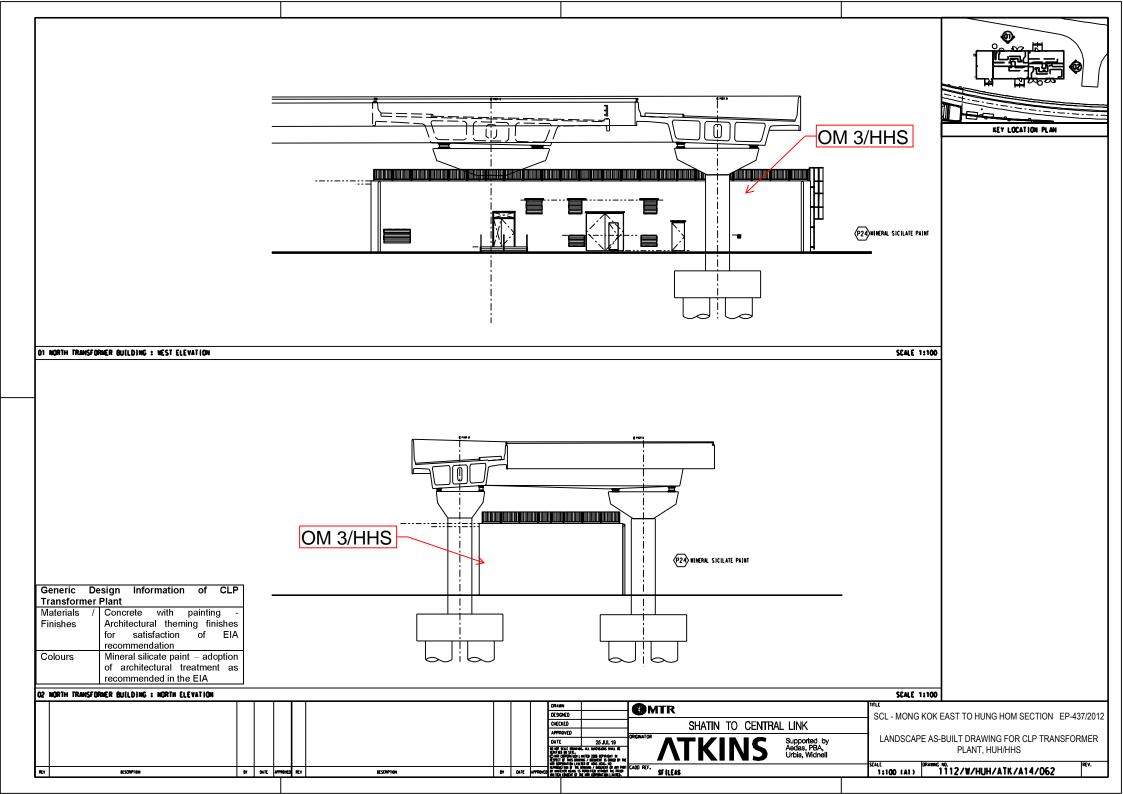


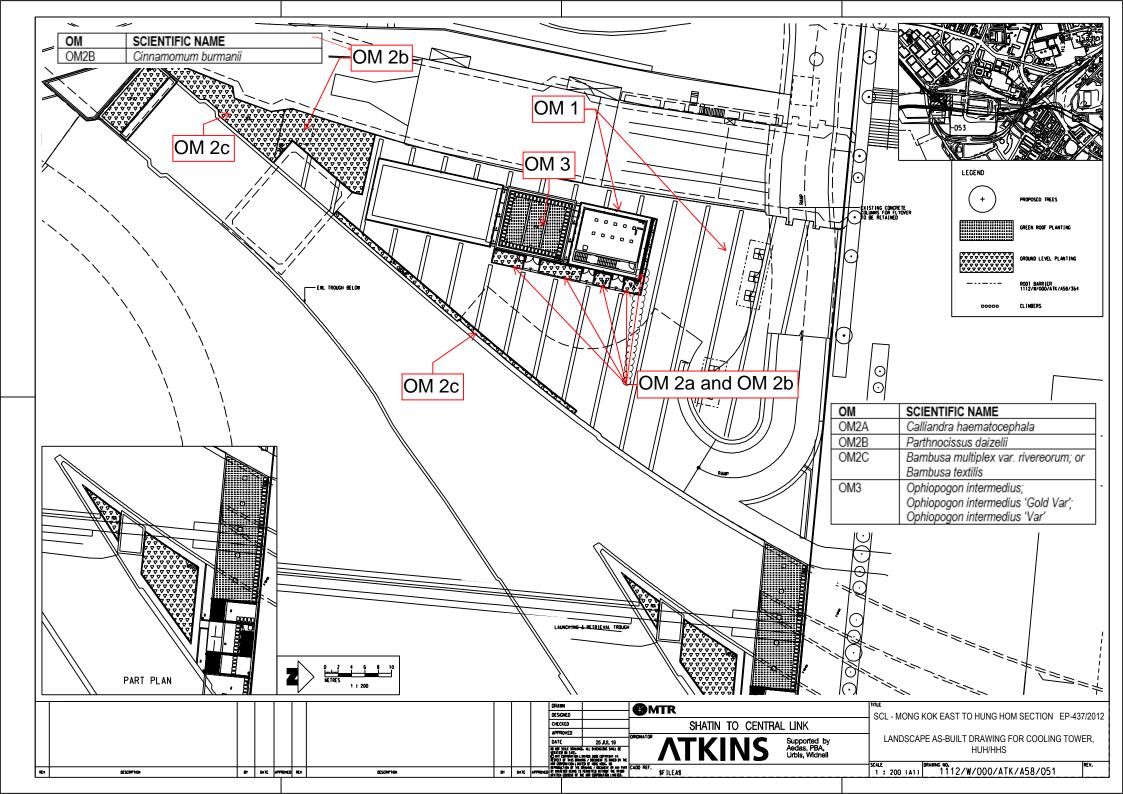


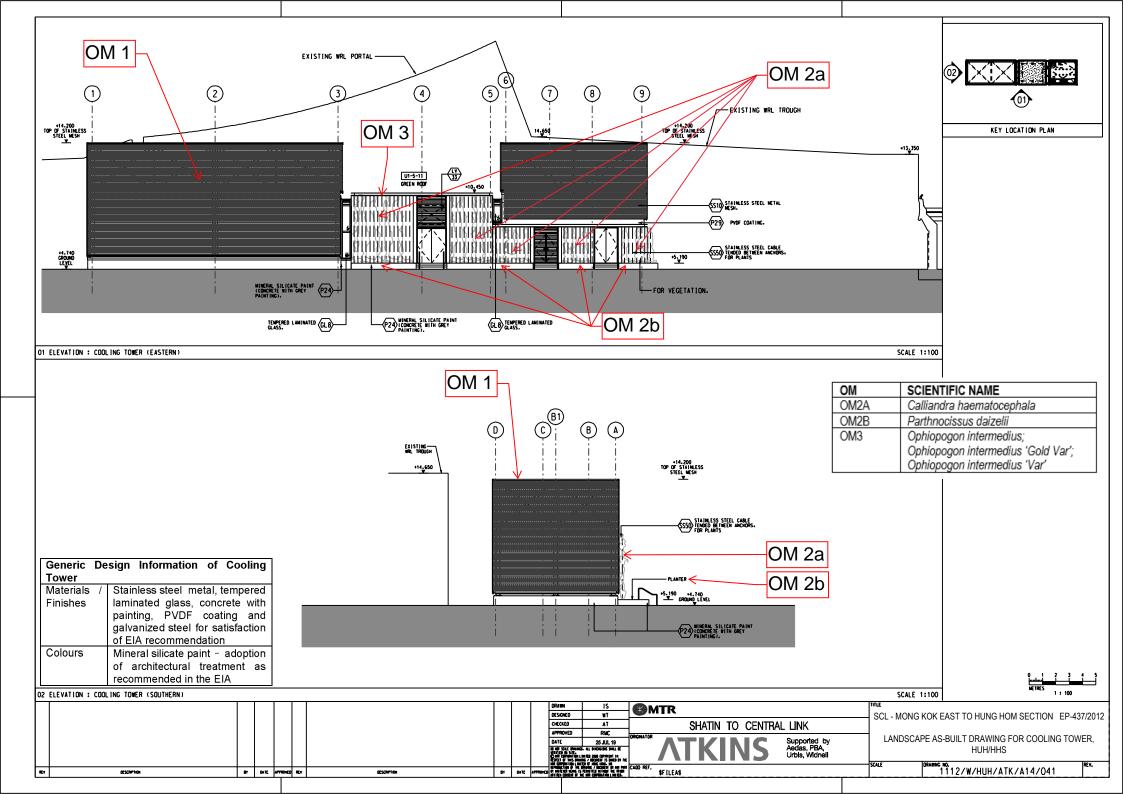


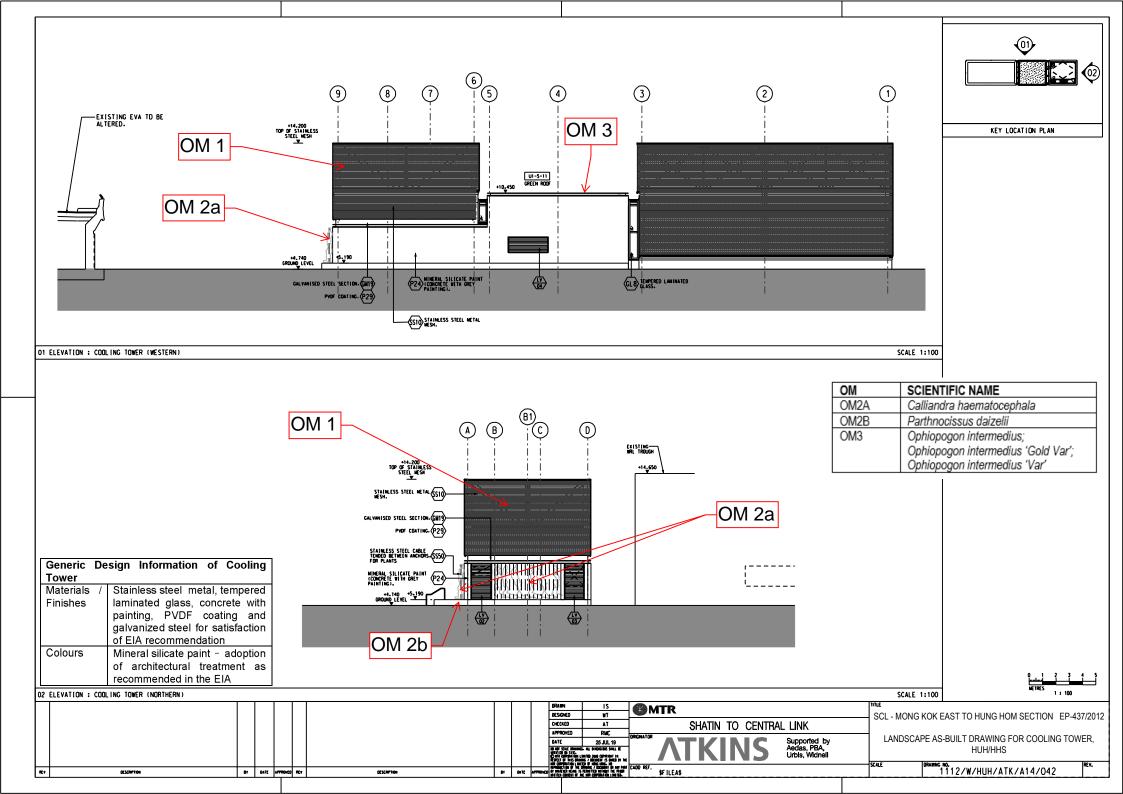


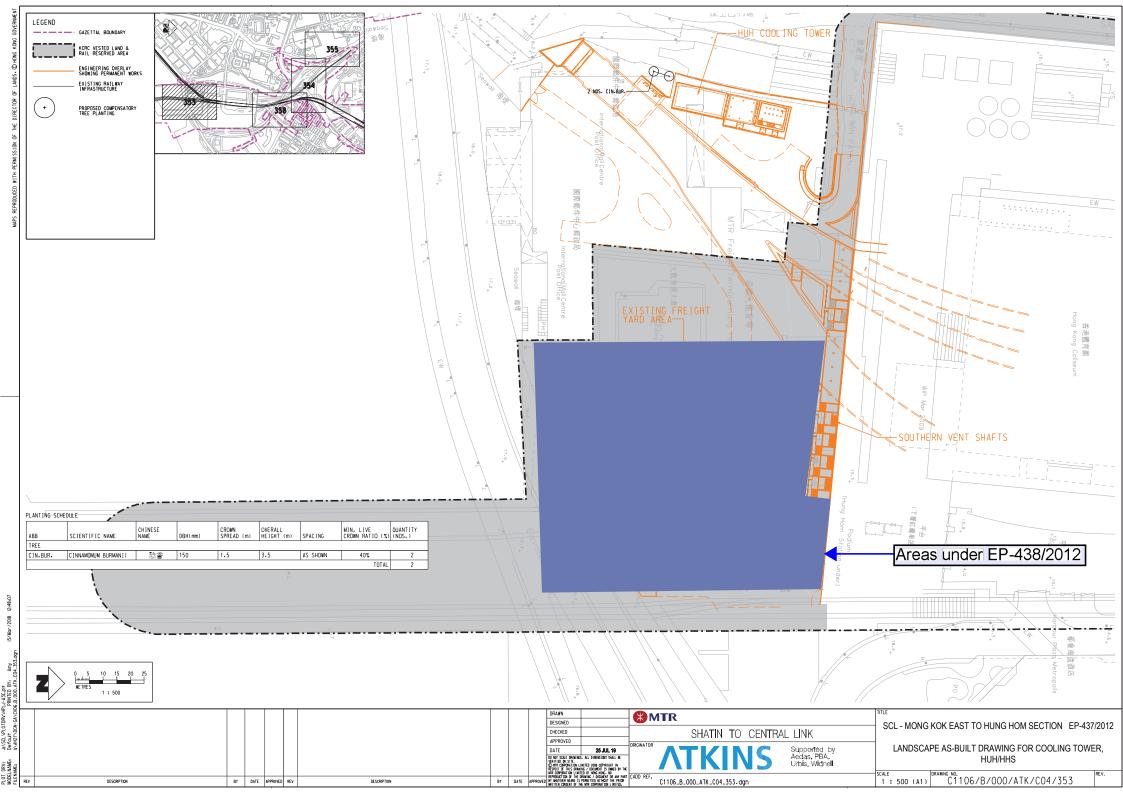


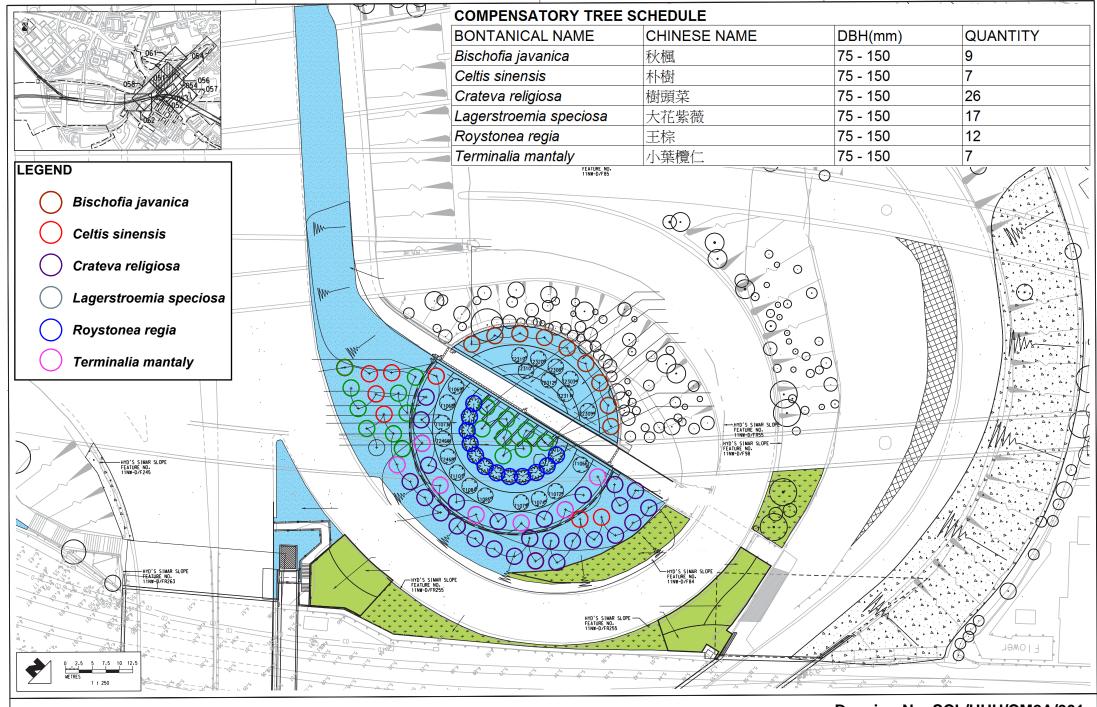












Drawing No. SCL/HUH/CM2A/001