acciona JEC CSCEC
AJC JOINT VENTURE

P306568

Received Dated
16 July 2024
13/WSD/17

By Hand

The EIA Ordinance Register Office,
Environmental Protection Department,
27th floor, Southorn Centre,
130 Hennessy Road,
Wanchai, Hong Kong

Ref.: AJC/EPD/240012

Date: 15 July 2024

Attn.: Mr. Henry LEUNG

Dear Sir,

RE: CONTRACT NO.: 13/WSD/17
DESIGN, BUILD AND OPERATE FIRST STAGE OF TSEUNG KWAN O DESALINATION PLANT
Submission of As-Built Drawings of Measures for Mitigating Landscape and Visual Impacts

As per Condition 2.23 of both Environmental Permit No. EP-503/2015/B and Further Environmental Permit No. FEP-01/503/2015/B, we would like to submit herewith 4 hard copies and 1 electronic copy of final submission of As-built Drawings of Measures for Mitigating Landscape and Visual Impacts to the Director for record. The respective table of responses to comments is also attached for your easy reference.

Should you have any enquiry, please do not hesitate to contact our Environmental Monitoring Manager, Brian Kam at 9456 9541.

Thank you for your attention.

Yours faithfully
For and on behalf of AJC Joint Venture

Stephen Yeung
Project Manager

SY/VA/LWWK/BK/cm

Encl.

c.c.:	Binnies Hong Kong Limited – Ms. Christina Ko	(By Email)
	Binnies Hong Kong Limited – Mr. Roger Wu	(By Email)
	Lam Environmental Services – Miss Serena Shek (IEC)	(By Email)
	Acuity Sustainability Consulting Limited – Mr. Toby Wan (ETL)	(By Email)

CSHK/CDX/ER4/2024/7789

AJC Joint Venture
5/F, Tower A, Manulife Financial Centre,
223-231 Wai Yip Street,
Kwun Tong, Kowloon, Hong Kong

Our ref.: LES/J2024-01/CS/L022
Date : 27 June 2024

By Post and Email

Water Supplies Department
New Works Branch
Consultants Management Division
6/F, Sha Tin Government Offices,
1 Sheung Wo Che Road, Sha Tin,
New Territories

Attn: Mr. W F Cheung/ S K Wong

Dear Sirs,

Independent Environmental Checker (IEC) for Construction and Operation of the First Stage Desalination Plant at Tseung Kwan O (Quotation Ref. No. TKO1/IEC/003)

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

We refer to the revised As-Built Drawings of Measures for Mitigating Landscape and Visual Impacts issued on 1 June 2024 for the captioned project.

We have no further comment and hereby verify the captioned as-built submission in accordance with Condition 2.23 of Environmental Permit EP-503/2015/B and Further Environmental Permit FEP-01/503/2015/B.

Yours sincerely,
For and On Behalf Of
Lam Environmental Services Limited

Serena Shek
Independent Environmental Checker

Encl.

Our Ref: PL-202406034

Date: 25 June 2024

AJC Joint Venture
5/F, Tower A, Manulife Financial Centre,
223-231 Wai Yip Street,
Kwun Tong,
Kowloon,
Hong Kong

Attention: Mr. Brian Kam

Dear Sir,

Contract No. 13/WSD/17
Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant
Certification of As-Built Drawings of Measures for Mitigating Landscape and Visual Impacts

We refer to the As-Built Drawings of Measures for Mitigating Landscape and Visual Impacts issued on 24th June 2024 for the captioned project.

We have no further comment and hereby certify the captioned submission in accordance with Condition 2.23 of Environmental Permit EP-503/2015/B and Further Environmental Permit FEP-01/503/2015/B.

Yours Faithfully,
For and on behalf of
Acuity Sustainability Consulting Limited

Toby K. H. Wan
Environmental Team Leader

Acuity Sustainability Consulting Limited
Flat/RM E, 12/F, Ford Glory Plaza,
Nos. 37-39 Wing Hong Street, Kowloon, Hong Kong
el +852 2698 6833
fax +852 2698 9383 | e-mail admin@acuityhk.com
http www.acuityhk.com | www.aurecongroup.com

ACUITY sustainability (Member of the Aurecon Group) / aurecon	**SUMMARY OF RESPONSE TO COMMENTS**	Page 1 of 1
	Submission Title: As-Built Drawings on Landscape and Visual Mitigation Measures	Issue Date: 04 June 2024
Comment Items Ref.	**Comment**	**ET's Response**

Comments from Mr. Henry Leung, EPD issued to AJCJV via email on 23 May 2024		
General Comments:		
1.	Please provide a plan with clear indication of all the proposed mitigation measures agreed under the Landscape and Visual Mitigation Proposal (LVMP).	As per the updated Revision Number: A1, the proposed mitigation measure has been updated on Appendix D1, Implementation of L&V Mitigation Measure (Operation Stage).
2.	The as-built drawings should demonstrate compliance with the approved LVMP. Any changes / revisions should be highlighted with proper justification.	As per AJCJV, there is no change L&V mitigation measures and works according to the approved LVMP.
3.	Appendix D – Layout Plan of TKO Desalination Plant i) Please indicate all the completed mitigation measures with appropriate legends on the as-built layout plan. ii) Legends such as hydroseeding, trees and vertical greening should be provided. iii) Noting that “Slope work to be separately completed in Stage 2 works”, we would reserve our further comments from landscape impact perspective upon receipt of relevant landscape information.	i) As per the updated Revision Number: A1, the completed mitigation measures with appropriate legend has been marked on Appendix D1, Implementation of L&V Mitigation Measure (Operation Stage). ii) Updated. iii) Remarked.
4.	Appendix E – Soft Landscape Design The as-built drawings of vertical greening along western boundary of the site is not provided.	As per the updated Revision Number: A1, the as-built drawings of vertical greening along western boundary of the site has been updated on Appendix E18, Soft Landscape Design (Vertical Greening).
Advisory Comments:		
5.	Please ensure the completed landscape works are successfully handed over to relevant maintenance parties in accordance to the approved EIA Report and LVMP.	As per AJCJV, the works will be handed over to the relevant maintenance parties in accordance to the approved EIA report and LVMP before the commencement of Operation.
6.	Approval of EP submission under EIAO does not imply approval of any tree works (felling, transplanting, pruning) and tree compensation scheme under DEVB TC(W) No. 4/2020 and/or tree preservation clause under lease condition. The EP holder shall approach relevant authority/department direct to obtain the necessary approval for any tree works. Similarly, approval of EP submission under EIAO does not imply approval of the site coverage of greenery requirements under DEVB TC(W) No. 3/2012 and /or PNAP APP 152. The site coverage of greenery calculation should be submitted separately to relevant authority/departments for approval as appropriate.	As per AJCJV, the site coverage of greenery calculation will be submitted separately to relevant authority/departments for approval as appropriate.

End

水務署
Water Supplies Department

acciona JEC
AJC JOINT VENTURE

Contract No. 13/WSD/17

First Stage of Tseung Kwan O Desalination Plant

AS-BUILT DRAWINGS ON LANDSCAPE AND VISUAL MITIGATION MEASURES
(EXCLUDING SLOPE MITIGATION WORKS)

Submitted to: Water Supplies Department
Submitted by: AJC Joint Venture
Date: 17 JUNE 2024

Contract No. 13/WSD/17
First Stage of Tseung Kwan O Desalination Plant

AS-BUILT DRAWINGS ON LANDSCAPE AND VISUAL MITIGATION MEASURES (EXCLUDING SLOPE MITIGATION WORKS)

Revision Number: A1
Issue Date: 01 Jun2024

The as-built drawings herewith record for relevant landscape and visual mitigation works of the Project (excluding the slope mitigation works) under the Contract No. 13/WSD/17 which were already completed by end of April 2024 in compliance with the approved Landscape and Visual Mitigation Proposal under Condition 2.11 of both Environmental Permit Nos. EP-503/2015/B and FEP-01/503/2015/B. The commencement date of operation of the Project would be on 1st July 2024.

Document History

Revision	Description	Prepared by	Reviewed by	Approved by	Date
A0	First Issue	Ivan Ting	Laurence Wong	Stephen Yeung	30 Apr 2024
A1	Second Issue	Ivan Ting	Laurence Wong	Stephen Yeung	01 Jun 2024

Notes:

NO.	Appendix D Layout Plan of TKO Desalination Plant
D1	Layout Plan of TKO Desalination Plant
D2	Layout Plan of TKO Desalination Plant REV. 01
D3	Layout Plan of TKO Desalination Plant -Blow-up Part Plan 1 REV. 01
D4	Layout Plan of TKO Desalination Plant -Blow-up Part Plan 2 REV. 01
D5	Layout Plan of TKO Desalination Plant Site Section

NO.	Appendix E Soft Landscape Design
E1	Soft Landscape Design(Overview-Building) REV. 01
E2	Soft Landscape Design (Overview-Landscape) REV. 01
E3	Soft Landscape Design (Planting List)
E4	Soft Landscape Design (Tree Planting Plan)
E5	Soft Landscape Design (Shrubs Planting Plan)
E6	Soft Landscape Design (Green Roof)
E7	Soft Landscape Design(Shrub Plan -Roof Floor)
E8	Soft Landscape Design(Shurb Plan -Ground Floor)
E9	Soft Landscape Design(Vertical Greening) -Open Chanel Fence Wall
E10	Soft Landscape Design (Rain Garden)
E11	Soft Landscape Design (Main Entrance)
E12	Soft Landscape Design (Drop off Plaza)
E13	Soft Landscape Design(Admin Building) Section Details
E14	Soft Landscape Design(Admin Building)
E15	Soft Landscape Design (Green Area Calculation)
E16	Soft Landscape Design (Green Area Calculation)
E17	Soft Landscape Design (Irrigation Points)
E18	Soft Landscape Design(Vertical Greening)

NO.	Appendix F Hard Landscape Design
F1	Hard Landscape Design (Overview) REV. 01
F2	Hard Landscape Design (Overview) -Blow-up Part Plan 1 REV. 01
F3	Hard Landscape Design (Overview) -Blow-up Part Plan 2 REV. 01
F4	Hard Landscape Design (Administration Building)
F5	Hard Landscape Design (Administration Building)
F6	Hard Landscape Design (Inspection Corridor)
F7	Hard Landscape Design (Combined Intake&Outfall Shaft)
F8	Hard Landscape Design (Reverse Osmosis&Electrical Building)
F9	Hard Landscape Design (Reverse Osmosis&Electrical Building)
F10	Hard Landscape Design (Reverse Osmosis&Electrical Building)
F11	Hard Landscape Design(Actidaff)
F12	Hard Landscape Design(Actidaff)
F13	Hard Landscape Design (Product Water Storage Tank and Electrical Building)
F14	Hard Landscape Design (Product Water Storage Tank and Electrical Building)
F15	Hard Landscape Design (On-Site Chlorine Generation System Building)
F16	Hard Landscape Design(Chemical Building)
F17	Hard Landscape Design (Main Electrial&Chiller Plant Building)
F18	Hard Landscape Design (TKO Desalination Plant Substation)
F19	Hard Landscape Design (Post Treatment Building)
F20	Hard Landscape Design(Master Meter Room)
F21	Hard Landscape Design (Guard House A)
F22	Hard Landscape Design(Guard House B)
F23	Hard Landscape Design (Workshop)
F24	Hard Landscape Design Material Board (Exterior)
F25	Hard Landscape Design Material Board (Exterior)
F26	Hard Landscape Design (Pavement)
F27	Hard Landscape Design (Paving Pattem)

AS-BUILT

Rev.	Description	By	Date

Employer
水務署 Water Supplies Department

Supervising Officer designate
binnies

Design Checker
ARCADIS Design & Consultancy for natural and built assets

Contractor
acciona JEC
AJC JOINT VENTURE

Designer
wsp
In Association with APU

Project title
Contract No. 13/WSD/17
FIRST STAGE OF TSEUNG KWAN O DESALINATION PLANT

Drawing Title
AS-BUILT DRAWING LIST

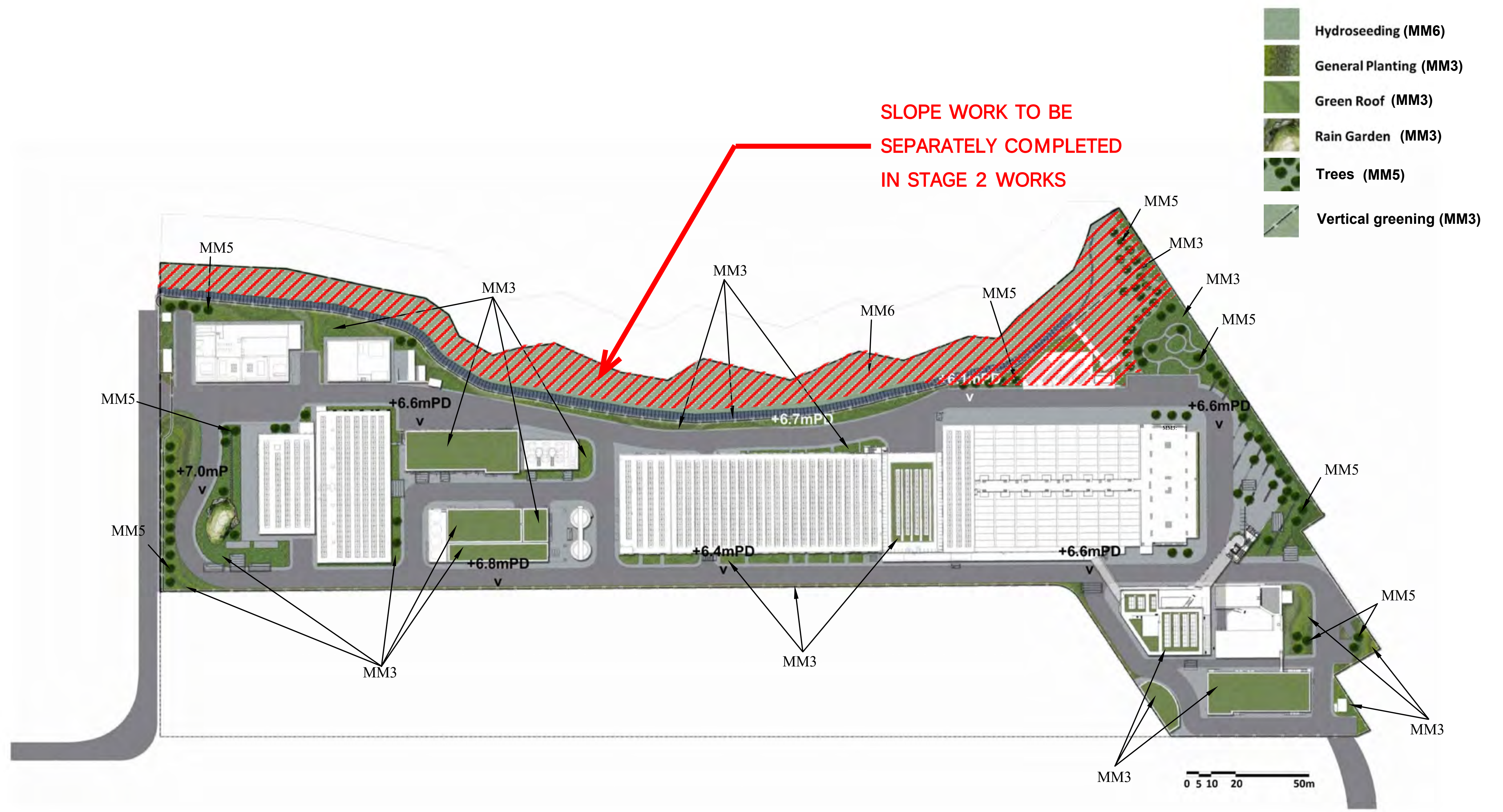
Drawing No.
Rev. 01

Author — Date Checked — Approved —
Scale Status —

DATE:
FILE PATH:

Appendix D – DPTKO Building Layout Plan

AS-BUILT



MM3 and MM5 were completed unless otherwise specified.

Mitigation Measure:

MM3:
Design principle was adopted to take into account the surrounding areaparticularly Clear Water Bay Country Park behind and the nearby waterfront,with due considera tion given to:

- green roofs where practical (ie without equipment on the roof);
- roadside planting;
- aesthetic treatment of all structures;
- vertical greening;
- screen planting along application site; and
- landscape enhancement with amenity planting where practical, including planting along the edge (site boundary) fence with native shrubs where feasible, to reduce their visual impact and blend them into the surrounding landscape.

MM 5:
No Trees within the Country Park were felled. Trees within the Site unavoidably affected by the works would be transplanted where practical. For trees that need to be felled, compensatory planting was provided to the satisfaction of relevant Government departments.

A compensatory tree planting proposal including locations of tree compensation was submitted to seek relevant government department's approval, in accordance with DEVB TC(W) No.4/2020.

MM6:
Any slope mitigation works necessary to address natural terrain hazards, was minimized to minimize any potential environmental impact to the Country Park e.g. soil nailing and rock stabilization were aimed to avoid existing trees e.g. should any restoration of vegetation be necessary, the best planting matrix with native species was established, with the aim of resembling the existing vegetation.

Remark:

1. The mitigation measure only include operation stage mitigation measure
2. Detail of MM8 could be refer to Appendix G.

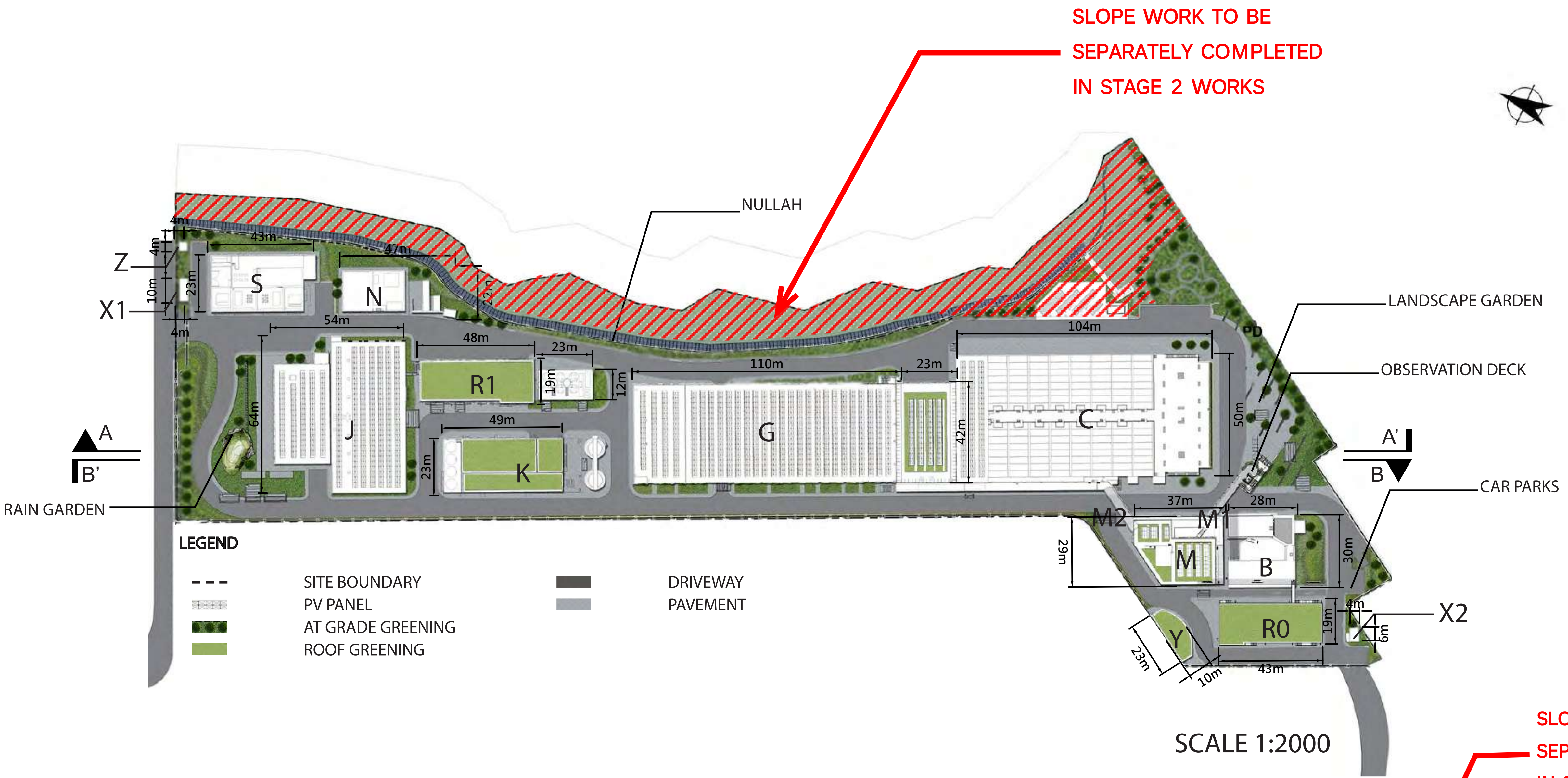
Project:
Contract No. 13/WSD/17
Design, Build and Operation of Tseung Kwan O Desalination Plant

Implementation of L&V Mitigation Measure (Operational Stage)

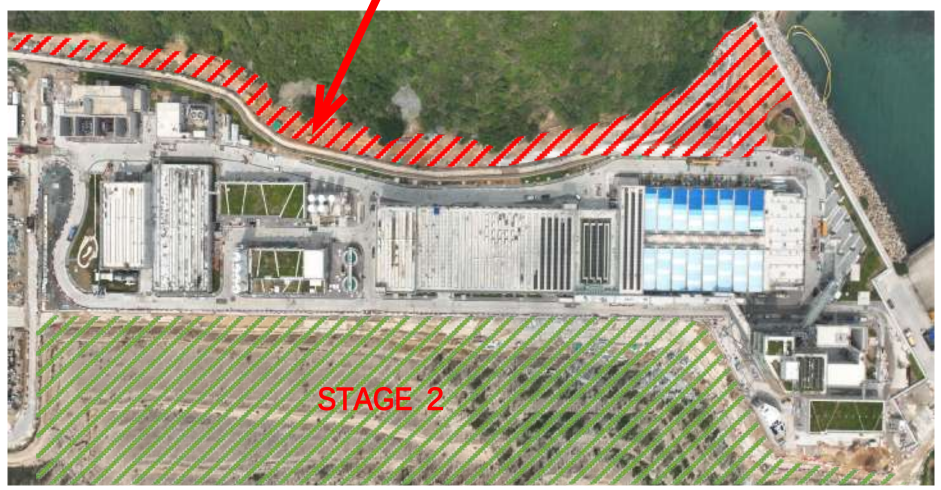
Scale
A4 1:500

AS-BUILT

Appendix D - Layout Plan of TKO Desalination Plant REV. 01



SLOPE WORK TO BE
SEPARATELY COMPLETED
IN STAGE 2 WORKS



LEGEND

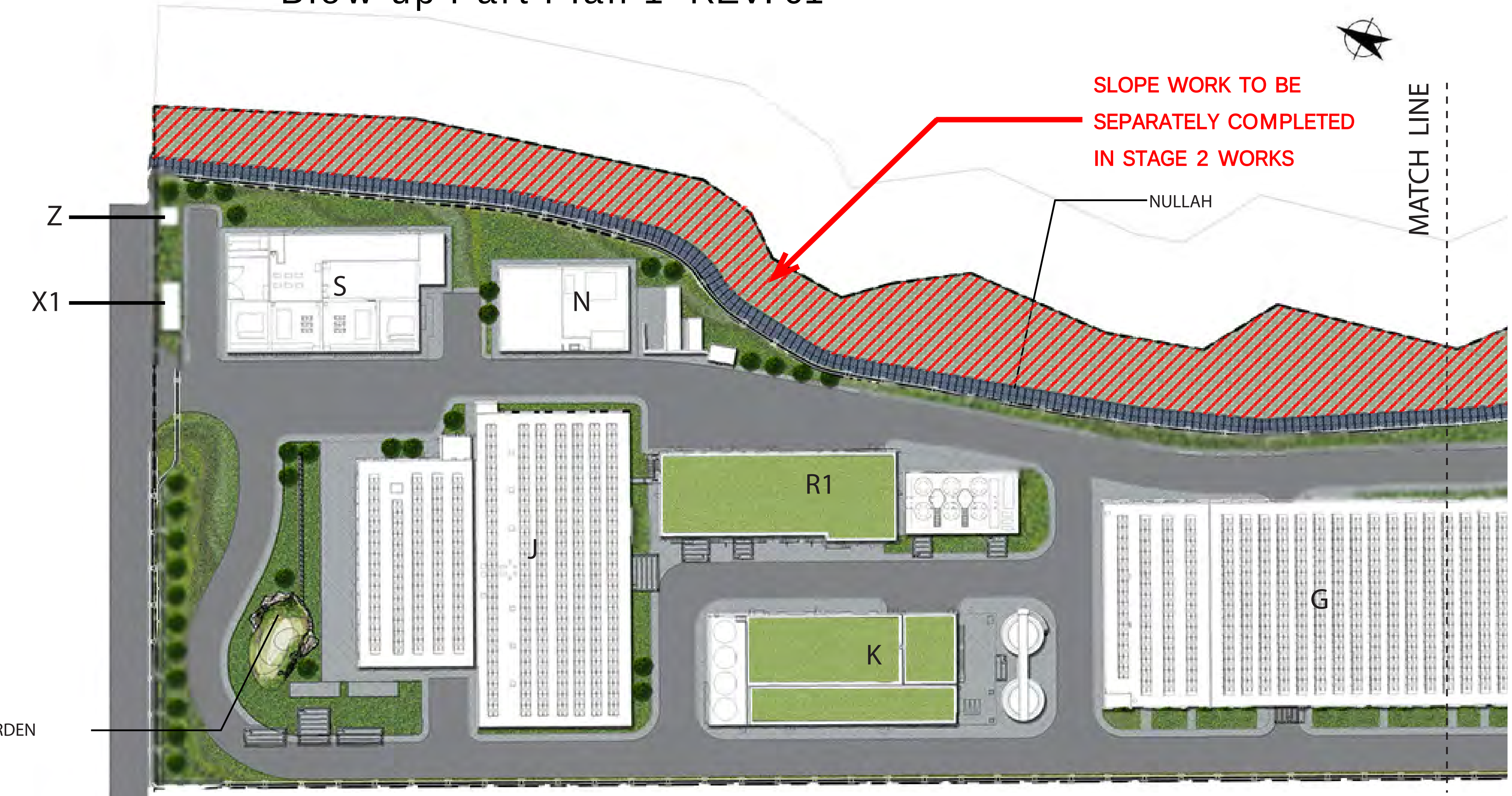
M - ADMINISTRATION BUILDING
M1- ELEVATED WALKWAY
V- INSPECTION CORRIDOR
B - COMBINED INTAKE & OUTFALL SHAFT
R0 - CHEMICAL BUILDING
C - ACTIDAFF
G - REVERSE OSMOSIS & ELECTRICAL BUILDING
K - POST-TREATMENT BUILDING
J - PRODUCT WATER STORAGE TANK AND ELECTRICAL BUILDING
R1 - ON-SITE CHLORINE GENERATION SYSTEM BUILDING AND CO^2 TANK AREA

N - MAIN ELECTRICAL & CHILLER PLANT BUILDING
S - TKO DESALINATION PLANT SUBSTATION
Z - MASTER METER ROOM
X1 - GUARD HOUSE A
X2 - GUARD HOUSE B
Y - WORKSHOP

AS-BUILT

Appendix D - Layout Plan of TKO Desalination Plant

- Blow-up Part Plan 1 REV. 01



LEGEND

M - ADMINISTRATION BUILDING
M1- ELEVATED WALKWAY
V- INSPECTION CORRIDOR
B - COMBINED INTAKE & OUTFALL SHAFT
R0 - CHEMICAL BUILDING
C - ACTIDAFF
G - REVERSE OSMOSIS & ELECTRICAL BUILDING
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J - PRODUCT WATER STORAGE TANK AND ELECTRICAL BUILDING
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N - MAIN ELECTRICAL & CHILLER PLANT BUILDING
S - TKO DESALINATION PLANT SUBSTATION
Z - MASTER METER ROOM
X1 - GUARD HOUSE A
X2 - GUARD HOUSE B

LEGEND

SITE BOUNDARY
PV PANEL
AT GRADE GREENING
ROOF GREENING
DRIVEWAY
PAVEMENT

SCALE 1:1000

AS-BUILT

Appendix D - Layout Plan of TKO Desalination Plant

- Blow-up Part Plan 2 REV. 01

LEGEND

M - ADMINISTRATION BUILDING
M1- ELEVATED WALKWAY
V- INSPECTION CORRIDOR
B - COMBINED INTAKE & OUTFALL SHAFT
R0 - CHEMICAL BUILDING
C - ACTIDAFF
G - REVERSE OSMOSIS & ELECTRICAL BUILDING
K - POST-TREATMENT BUILDING
J - PRODUCT WATER STORAGE TANK AND ELECTRICAL BUILDING
R1 - ON-SITE CHLORINE GENERATION SYSTEM BUILDING AND CO^2 TANK AREA
N - MAIN ELECTRICAL & CHILLER PLANT BUILDING
S - TKO DESALINATION PLANT SUBSTATION
Z - MASTER METER ROOM
X1 - GUARD HOUSE A
X2 - GUARD HOUSE B

LEGEND

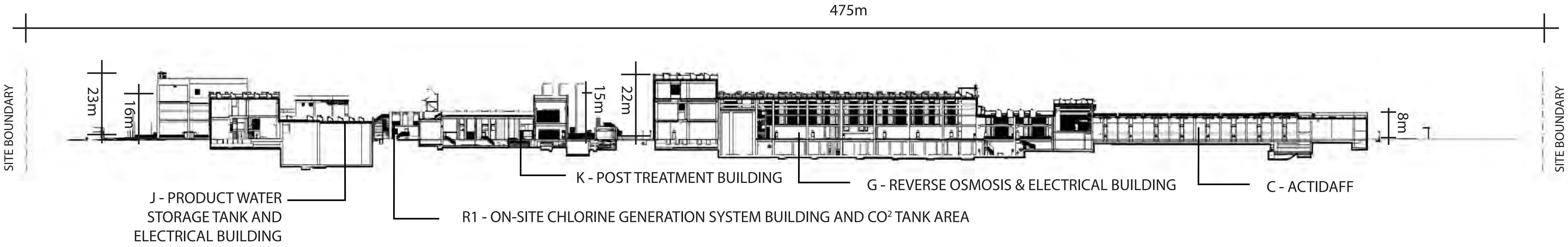
SITE BOUNDARY
PV PANEL
AT GRADE GREENING
ROOF GREENING
DRIVEWAY
PAVEMENT

SCALE 1:1000

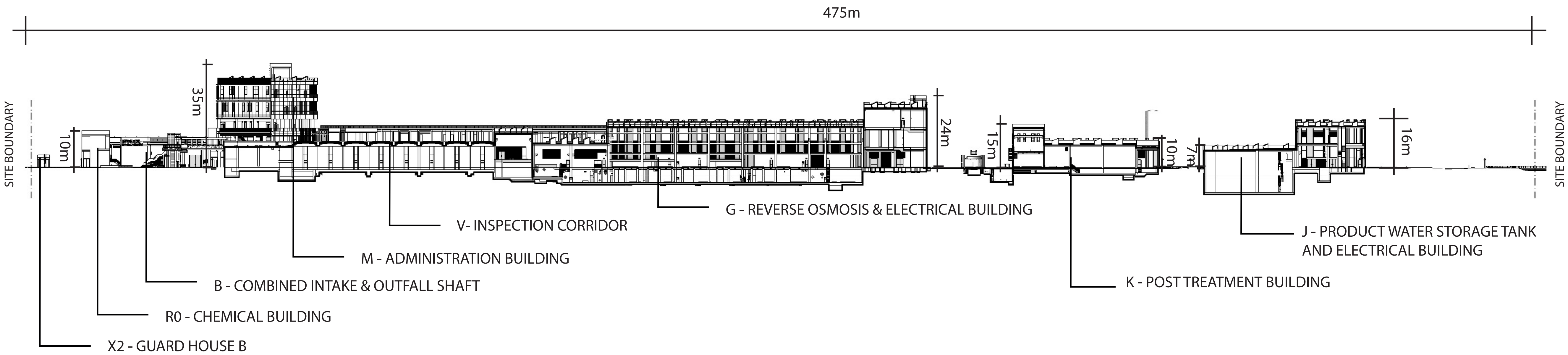
AS-BUILT

Appendix D - Layout Plan of TKO Desalination Plant

- Site Section



SITE SECTION A-A (SCALE 1:500)

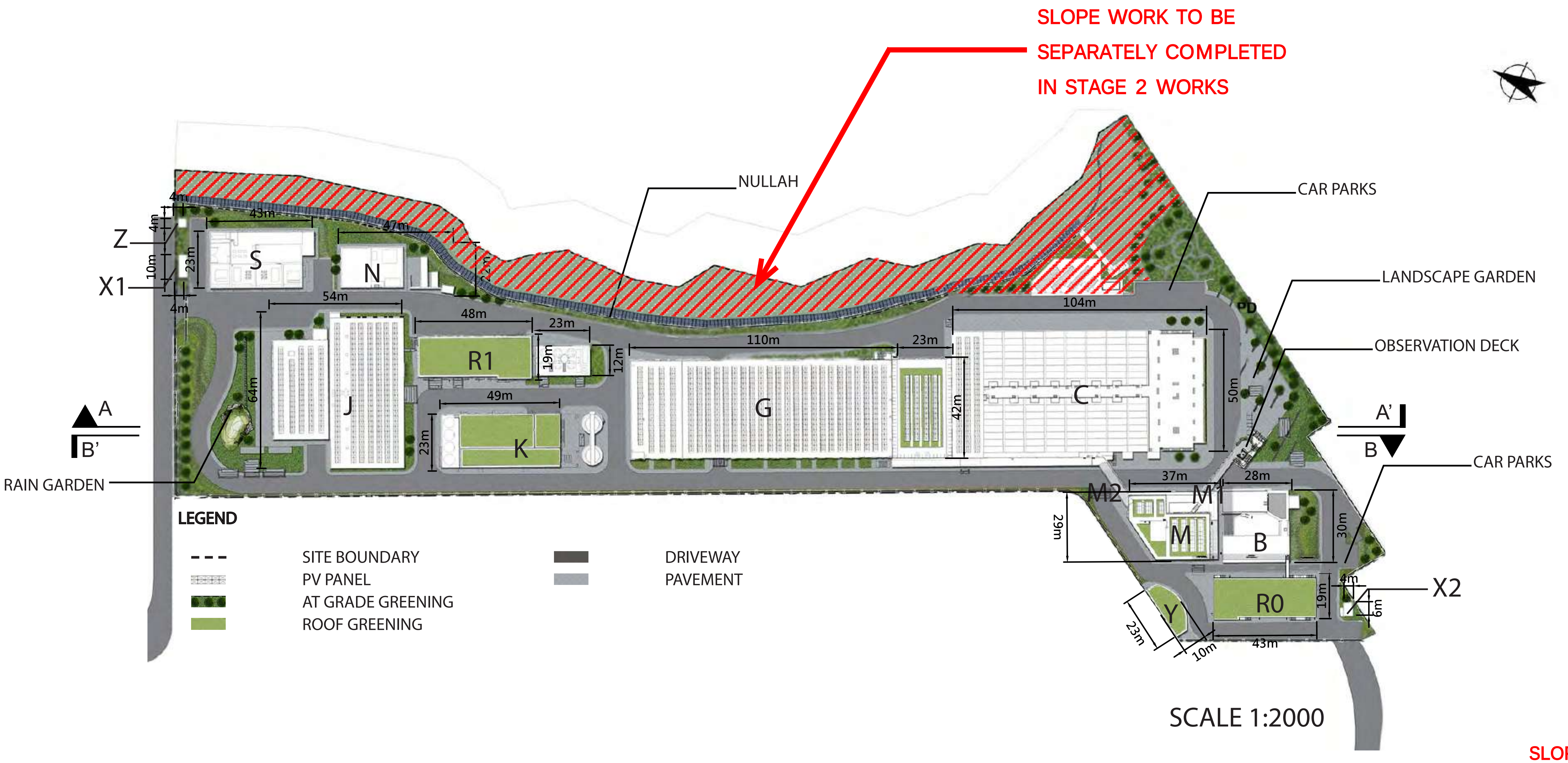


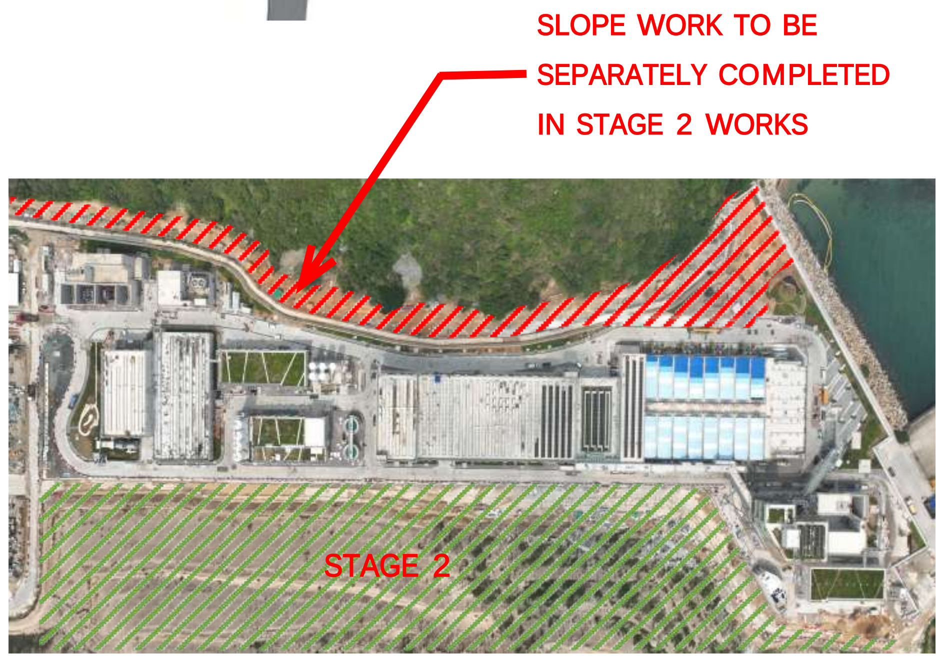
SITE SECTION B-B (SCALE 1:500)

Appendix E – Soft Landscape Design

AS-BUILT

Appendix E - Soft Landscape Design (Overview-Building) REV. 01





LEGEND

M - ADMINISTRATION BUILDING
M1- ELEVATED WALKWAY
V- INSPECTION CORRIDOR
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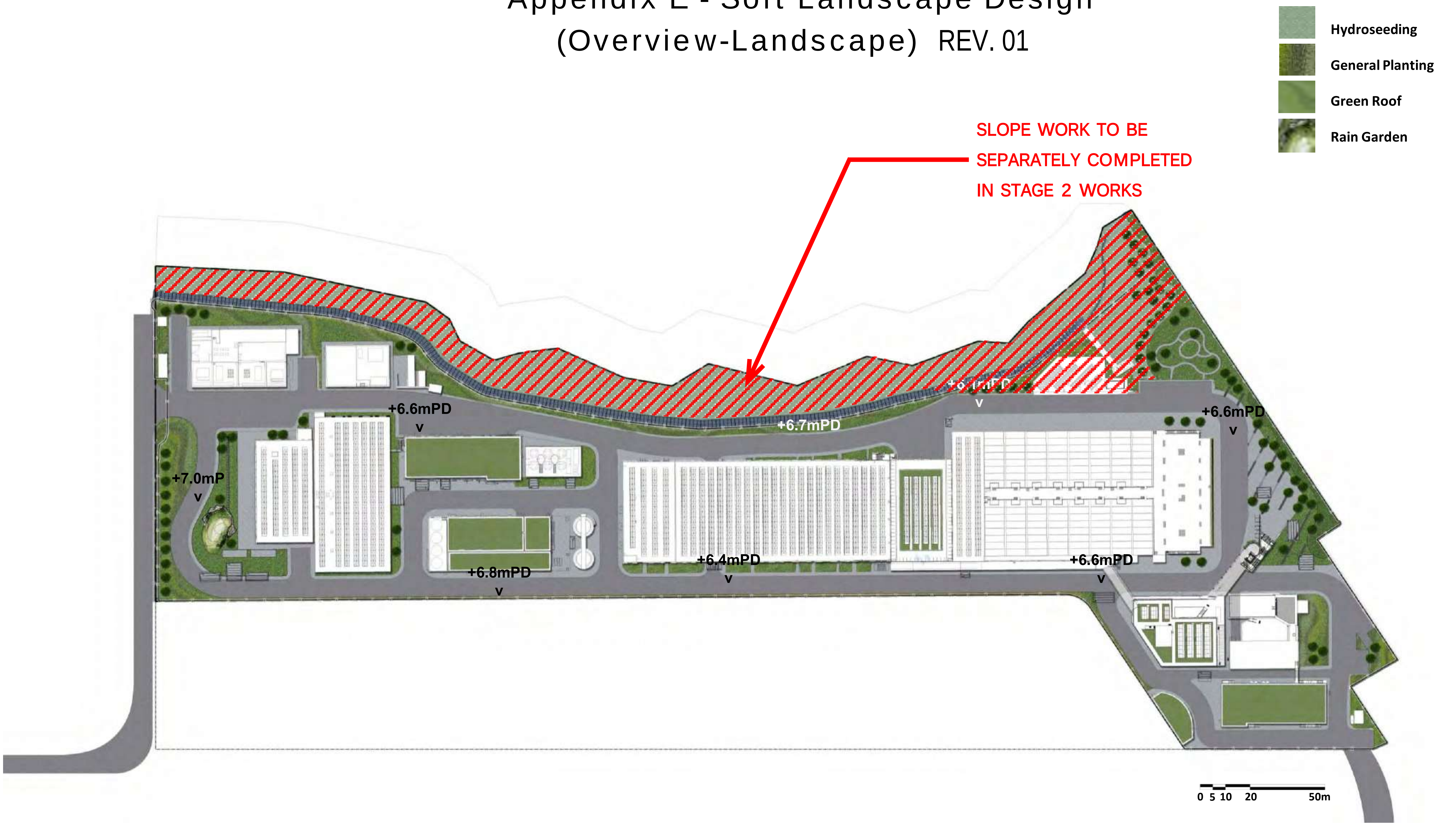
S - TKO DESALINATION PLANT SUBSTATION
Z - MASTER METER ROOM
X1 - GUARD HOUSE A
X2 - GUARD HOUSE B
Y - WORKSHOP

AS-BUILT

Appendix E - Soft Landscape Design (Overview-Landscape) REV. 01



Appendix E - Soft Landscape Design (Planting List)

PLANTING LIST

序號 Item	植物名稱 Botanical Name Common Name	中文名稱 Chinese Name	高度 Height (mm)	冠寬 Spread (mm)	胸徑 DBH (mm)	間距 Spacing (mm)	G/F 數量 G/F Qty. (nos.)	Admin Building 1/F Qty. (nos.)	總數量 Total Qty. (nos.)	備註 Remark
Trees										
BJ	*Bischofia javanica*	秋楓	5000	3000	100	7000	19	-	19	Native
IR	*Ilex rotumda var.microcarpa*	小果鐵冬青	3000	2000	60	5000	6	2	8	Native
LF	*Liquidambar formosana*	楓香	5000	3000	90	5000	6	-	6	Native
PP	*Pongamia pinnata*	水黃皮	4000	3000	80	5000	12	-	12	Native
SL	*Sterculia lanceolata*	假蘋婆	5000	3000	90	6000	17	-	17	Native
TM	*Terminalia mantaly*	小葉欖仁	5000	2500	90	5000	18	-	18	Exotic
TS	*Triadica sebifera*	烏桕	4000	2000	80	5000	8	-	8	Native
								Total	88	

序號 Item	植物名稱 Botanical Name Common Name	中文名稱 Chinese Name	高度 Height (mm)	冠寬 Spread (mm)	間距 Spacing (mm)	G/F 數量 G/F Qty. (nos.)	R/F 數量 R/F Qty. (nos.)	Admin Building 1/F Qty. (nos.)	2/F Qty. (nos.)	3/F Qty. (nos.)	4/F Qty. (nos.)	總數量 Total Qty. (nos.)	本地品種/外來品種 Native / Exotic	備註 Remark
Groundcovers														
Adu	*Arachis duranensis*	蔓花生	100	100	200	630	10913	-	-	-	-	11543	Exotic	-
Ccm	*Chlorophytum comosum cv. Marginatum*	金邊吊蘭	200	200	200	-	9303	-	-	-	-	9303	Exotic	-
Lmo	*Lantana montevidensis*	紫花馬纓丹	200	200	200	2797	16692	-	-	-	-	19489	Exotic	-
Nau	*Nephrolepis auriculata*	腎蕨	250	200	200	8918	9903	210	93	-	-	19124	Native	-
Oja	*Ophiopogon japonicus*	麥冬	250	200	200	-	6024	-	-	-	-	6024	Native	-
Ojs	*Ophiopogon jaburan (Siebold) Lodd.*	花葉沿階草	250	200	200	446	13208	-	-	-	-	13654	Exotic	-
Pmy	*Phyllanthus myrtifolius*	錫蘭葉下珠	250	200	150	8147	17537	-	148	-	-	25832	Exotic	-
Shrubs														
Aca	*Allamanda cathartica*	軟枝黃蟬	400	300	200	10834	-	-	-	-	-	10834	Exotic	-
Acu	*Asclepias curassavica*	馬利筋	300	200	200	14651	-	-	-	-	-	14651	Exotic	-
Aod	*Aglaia odorata*	米仔蘭	400	300	200	5575	-	70	122	-	-	5767	Exotic	-
Cal	*Cassia alata*	翅莢決明	1200	800	600	576	-	-	-	-	-	576	Exotic	-
Drg	*Duranta repens 'golden'*	金連翹	300	250	150	28249	-	-	102	-	-	28351	Exotic	-
Drv	*Duranta repens 'Variegata'*	花葉連翹	300	250	200	3482	-	-	-	-	-	3482	Exotic	-
Fja	*Fatsia japonica*	八角金盤	500	350	300	6043	-	30	-	-	-	6073	Exotic	-
Gja	*Gardenia jasminoides*	梔子花	500	350	250	1692	-	30	147	-	-	1869	Native	-
Ich	*Ixora chinensis*	龍船花	500	300	200	13092	-	130	-	-	-	13222	Native	-
Lcr	*Loropetalum chinensis var. rubrum*	紅繼木	300	200	150	10387	-	-	-	-	-	10387	Exotic	-
Lsi	*Ligustrum sinense*	山指甲	500	350	250	9191	-	-	-	-	-	9191	Exotic	-
Msa	*Melastoma sanguineum*	毛菍	500	300	200	13910	-	-	41	-	-	13951	Native	-
Rsi	*Rhododendron simsii*	紅杜鵑	400	300	200	19040	-	-	67	-	-	19107	Native	-
Rto	*Rhodomyrtus tomentosa*	桃金娘	500	300	200	19705	-	-	-	-	-	19705	Native	-
She	*Schefflera heptaphylla*	鵝掌柴	400	300	250	17750	-	40	17	-	-	17807	Native	-
Zpo	*Zanthoxylum piperitum cv 'odorum'*	胡椒木	300	200	150	3964	-	-	116	-	-	4080	Exotic	-
Rain Garden														
Cin	*Canna indica*	美人蕉	400	300	200	1167	-	-	-	-	-	1167	Exotic	-
Hfu	*Hemerocallis fulva*	萱草	400	300	200	603	-	-	-	-	-	603	Exotic	-
Ite	*Iris tectorum*	鳶尾	500	300	200	510	-	-	-	-	-	510	Exotic	-
Lsa	*Lythrum salicaria*	千屈菜	400	400	200	826	-	-	-	-	-	826	Exotic	-
Msi	*Miscanthus sinensis*	細葉芒	400	300	200	595	-	-	-	-	-	595	Exotic	-
Climber														
BcoC	*Bauhinia corymbosa*	首冠藤	800	300	500	550	-	-	-	-	-	550	Exotic	-
LjaC	*Lonicera japonica*	金銀花	800	300	500	550	-	-	-	-	-	550	Native	-
QinC	*Quisqualis indica*	使君子	1000	300	500	700	-	-	-	10	10	720	Exotic	-
Hydroseed														
Cga	*Chloris gayana*	非洲虎尾草	-	-	-	1130m^2	-	-	-	-	-	1130m^2	Exotic	按平方米計算(m^2)
Cda	*Cynodon dactylon*	狗牙根	-	-	-	1130m^2	-	-	-	-	-	1130m^2	Native	按平方米計算(m^2)
Lpe	*Lolium perenne*	黑麥草	-	-	-	1130m^2	-	-	-	-	-	1130m^2	Exotic	按平方米計算(m^2)
Msa	*Melastoma sanguineum*	毛菍	-	-	-	1130m^2	-	-	-	-	-	1130m^2	Native	按平方米計算(m^2)
Rhi	*Rhus chinensis*	鹽膚木	-	-	-	1130m^2	-	-	-	-	-	1130m^2	Native	按平方米計算(m^2)
Rto	*Rhodomyrtus tomentosa*	桃金娘	-	-	-	1130m^2	-	-	-	-	-	1130m^2	Native	按平方米計算(m^2)
Lawn														
Zja	*Zoysia japonica*	台灣草	-	-	-	410m^2	-	-	-	-	-	410m^2	Exotic	按平方米計算(m^2)

AS-BUILT

Rev	Description	By	Date
A	GENERAL REVISION	AC	2021/11/11

Employer
水務署 Water Supplies Department

Supervising Officer designate
binnies

Design Checker
ARCADIS Design & Consultancy for natural and built assets

Contractor
acciona JEC CSCEC
AJC JOINT VENTURE

Designer
wsp
In Association with APU

Project title
CONTRACT NO. 13/WSD/17

DESIGN, BUILD AND OPERATE
FIRST STAGE OF TSEUNG KWAN O
DESALINATION PLANT

Drawing title
PLANTING LIST
—
—
—
—

Drawing no.	Rev.
TKOD1–DWG–A000–WLA3101	A

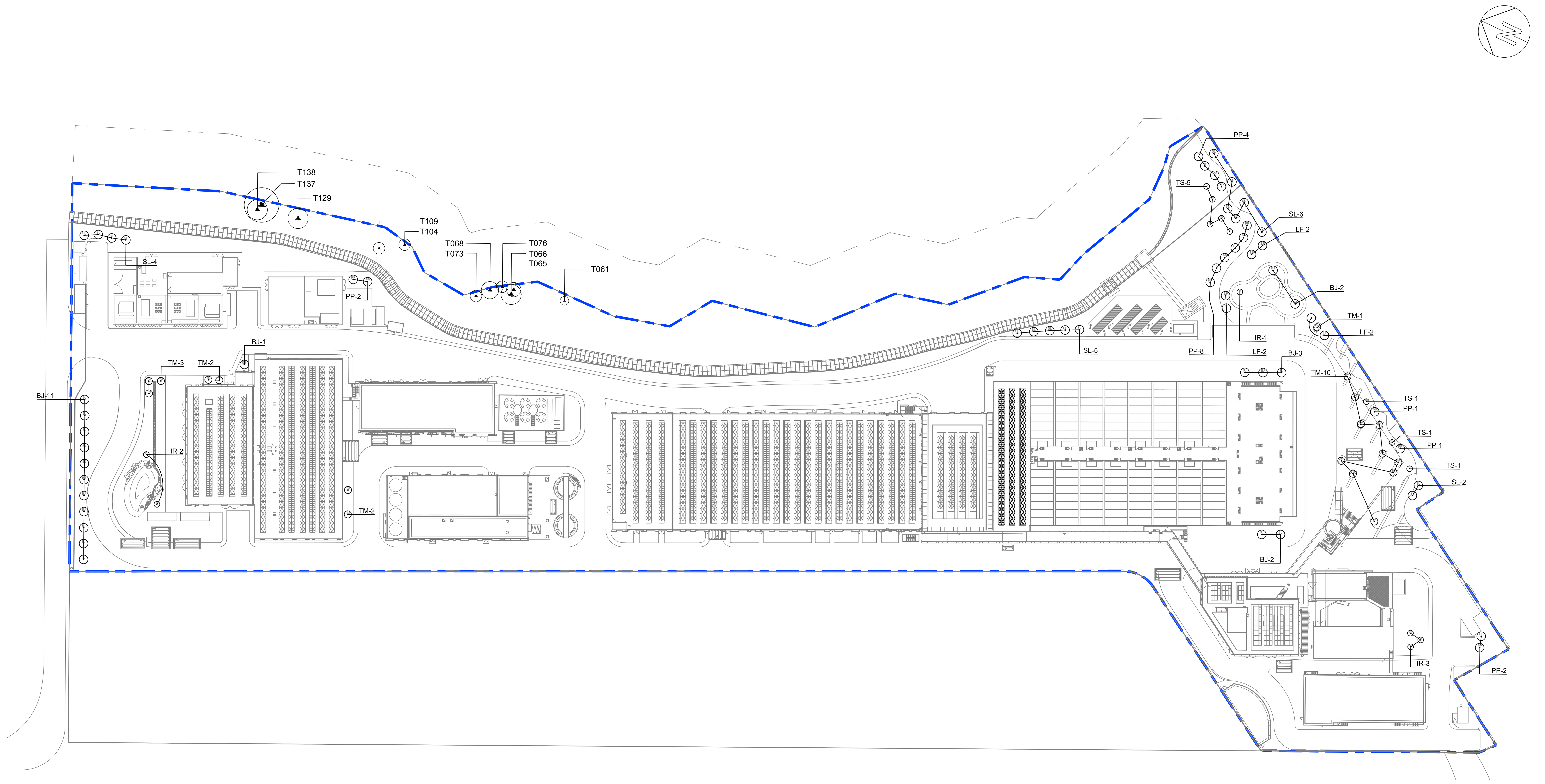
Drawn	Date	Checked	Approved
AC	10 MAY 2021	XL	–

Scale	Status
N.T.S.	DETAILED DESIGN APPROVAL

Appendix E - Soft Landscape Design
(Tree Planting Plan)

PLANTING LIST

序號 Item	植物名稱 Botanical Name Common Name	中文名稱 Chinese Name	高度 Height (mm)	冠寬 Spread (mm)	胸徑 DBH (mm)	間距 Spacing (mm)	G/F 數量 G/F Qty. (nos.)
Trees							
BJ	*Bischofia javanica*	秋楓	5000	3000	100	7000	19
IR	*Ilex rotumda var.microcarpa*	小果鐵冬青	3000	2000	60	5000	6
LF	*Liquidambar formosana*	楓香	5000	3000	90	5000	6
PP	*Pongamia pinnata*	水黃皮	4000	3000	80	5000	12
SL	*Sterculia lanceolata*	假蘋婆	5000	3000	90	6000	17
TM	*Terminalia mantaly*	小葉欖仁	5000	2500	90	5000	18
TS	*Triadica sebifera*	烏桕	4000	2000	80	5000	8



LEGEND:

SITE BOUNDARY

PROPOSED NEW TREE

RETAINED TREE

AS-BUILT

REMARKS:
NOT LESS THAN 1200mm CLEAR SOIL WIDTH AND DEPTH SHOULD BE PROVIDED FOR ALL TREE PLANTING AREAS.

Rev	Description	By	Date
A	GENERAL REVISION	AC	2021/11/11

Employer
水務署
Water Supplies Department

Supervising Officer designate
binnies

Design Checker
ARCADIS

Contractor
acciona JEC
AJC JOINT VENTURE

Designer
wsp
In Association with APU

Project title
CONTRACT NO. 13/WSD/17

DESIGN, BUILD AND OPERATE
FIRST STAGE OF TSEUNG KWAN O
DESALINATION PLANT

Drawing title
TREE PLAN – GROUND FLOOR
–
–
–
–

Drawing no. TKOD1–DWG–A000–WLA3111 Rev. A

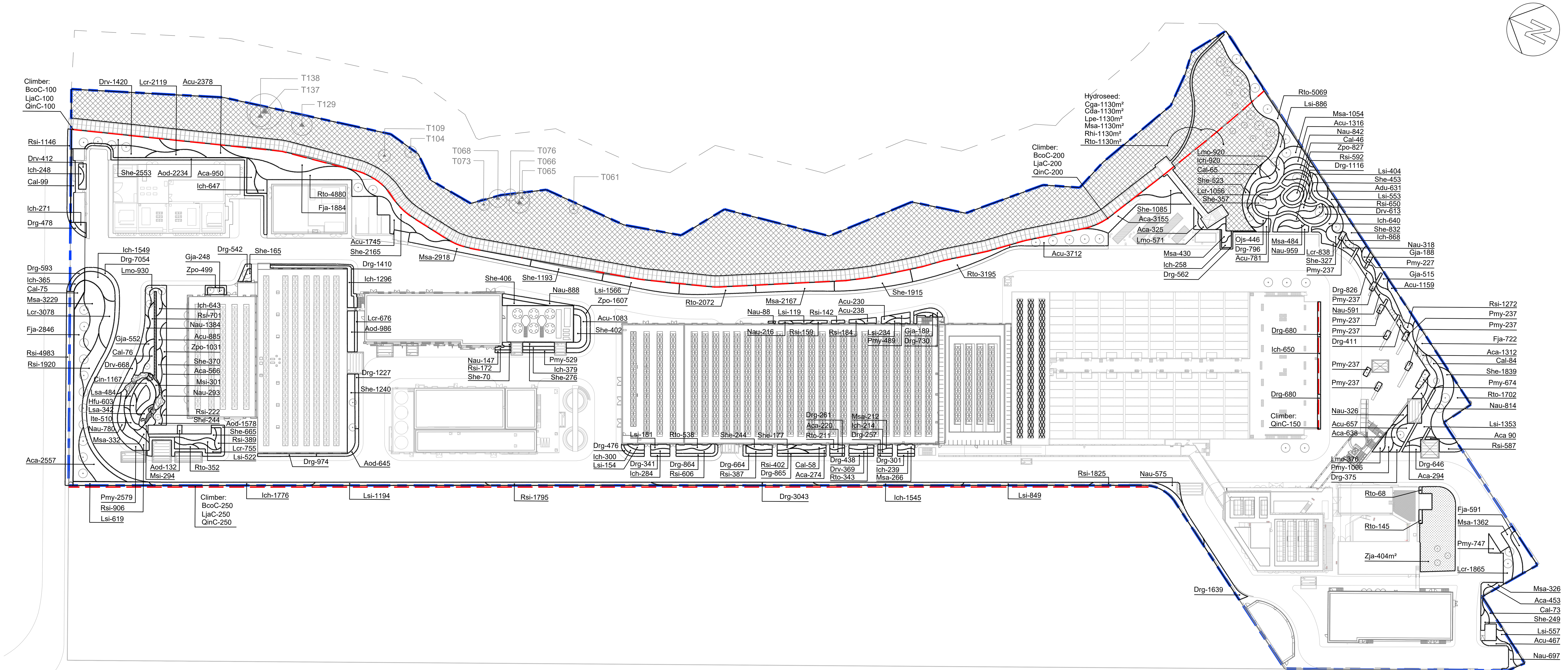
Drawn	Date	Checked	Approved
AC	10 MAY 2021	XL	–
Scale 1:800@A1		Status DETAILED DESIGN APPROVAL	

Appendix E - Soft Landscape Design (Shrubs Planting Plan)

PLANTING LIST

序號 Item	植物名稱 Botanical Name Common Name	中文名稱 Chinese Name	高度 Height (mm)	冠寬 Spread (mm)	間距 Spacing (mm)	G/F 數量 G/F Qty. (nos.)
Groundcovers						
Adu	*Arachis duranensis*	蔓花生	100	100	200	630
Lmo	*Lantana montevidensis*	紫花馬纓丹	200	200	200	2797
Nau	*Nephrolepis auriculata*	腎蕨	250	200	200	8918
Ojs	*Ophiopogon jaburan (Siebold) Lodd.*	花葉沿階草	250	200	200	446
Pmy	*Phyllanthus myrtifolius*	錫蘭葉下珠	250	200	150	8147
Shrubs						
Aca	*Allamanda cathartica*	軟枝黃蟬	400	300	200	10834
Acu	*Asclepias curassavica*	馬利筋	300	200	200	14651
Aod	*Aglaia odorata*	米仔蘭	400	300	200	5575
Cal	*Cassia alata*	翅莢決明	1200	800	600	576
Drg	*Duranta repens 'golden'*	金連翹	300	250	150	28249
Drv	*Duranta repens 'Variegata'*	花葉連翹	300	250	200	3482
Fja	*Fatsia japonica*	八角金盤	500	350	300	6043
Gja	*Gardenia jasminoides*	梔子花	500	350	250	1692
Ich	*Ixora chinensis*	龍船花	500	300	200	13092
Lcr	*Loropetalum chinensis var. rubrum*	紅繼木	300	200	150	10387
Lsi	*Ligustrum sinense*	山指甲	500	350	250	9191
Msa	*Melastoma sanguineum*	毛苍	500	300	200	13910
Rsi	*Rhododendron simsii*	紅杜鵑	400	300	200	19040
Rto	*Rhodomyrtus tomentosa*	桃金娘	500	300	200	19705
She	*Schefflera heptaphylla*	鵝掌柴	400	300	250	17750
Zpo	*Zanthoxylum piperitum cv 'odorum'*	胡椒木	300	200	150	3964

序號 Item	植物名稱 Botanical Name Common Name	中文名稱 Chinese Name	高度 Height (mm)	冠寬 Spread (mm)	間距 Spacing (mm)	G/F 數量 G/F Qty. (nos.)	備註 Remark
Rain Garden							
Cin	*Canna indica*	美人蕉	400	300	200	1167	-
Hfu	*Hemerocallis fulva*	萱草	400	300	200	603	-
Ite	*Iris tectorum*	鳶尾	500	300	200	510	-
Lsa	*Lythrum salicaria*	千屈菜	400	400	200	826	-
Msi	*Miscanthus sinensis*	細葉芒	400	300	200	595	-
Climber							
BcoC	*Bauhinia corymbosa*	首冠藤	800	300	500	550	-
LjaC	*Lonicera japonica*	金銀花	800	300	500	550	-
QinC	*Quisqualis indica*	使君子	1000	300	500	700	-
Hydroseed							
Cga	*Chloris gayana*	非洲虎尾草	-	-	-	$1130m^2$	按平方米計算(m^2)
Cda	*Cynodon dactylon*	狗牙根	-	-	-	$1130m^2$	按平方米計算(m^2)
Lpe	*Lolium perenne*	黑麥草	-	-	-	$1130m^2$	按平方米計算(m^2)
Msa	*Melastoma sanguineum*	毛苍	-	-	-	$1130m^2$	按平方米計算(m^2)
Rhi	*Rhus chinensis*	鹽膚木	-	-	-	$1130m^2$	按平方米計算(m^2)
Rto	*Rhodomyrtus tomentosa*	桃金娘	-	-	-	$1130m^2$	按平方米計算(m^2)
Lawn							
Zja	*Zoysia japonica*	台灣草	-	-	-	$410m^2$	按平方米計算(m^2)



LEGEND:

- SITE BOUNDARY
- SHRUBS & GROUNDCOVERS
- LAWN
- PLANTING AREA FOR HYDROSEED
- CLIMBER
- PROPOSED NEW TREE
- RETAINED TREE

AS-BUILT

REMARKS:
NOT LESS THAN 600mm SOIL DEPTH SHOULD BE PROVIDED FOR THOSE AREAS PLANTED WITH SHRUBS AND 300mm SOIL DEPTH FOR GROUNDCOVERS.

Rev	Description	By	Date
A	GENERAL REVISION	AC	2021/11/11

Employer: 水務署 Water Supplies Department

Supervising Officer designate: binnies

Design Checker: ARCADIS Design & Consultancy for natural and built assets

Contractor: acciona JEC 中國建築 AJC JOINT VENTURE

Designer: wsp In Association with APU

Project title: CONTRACT NO. 13/WSD/17 DESIGN, BUILD AND OPERATE FIRST STAGE OF TSEUNG KWAN O DESALINATION PLANT

Drawing title: SHRUBS PLAN – GROUND FLOOR

Drawing no.: TKOD1–DWG–A000–WLA3112 Rev. A

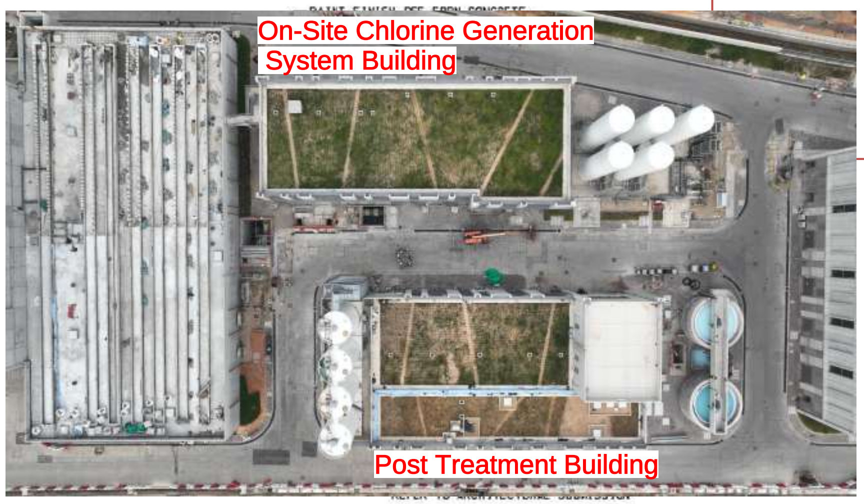
Drawn: AC | Date: 10 MAY 2021 | Checked: XL | Approved: –

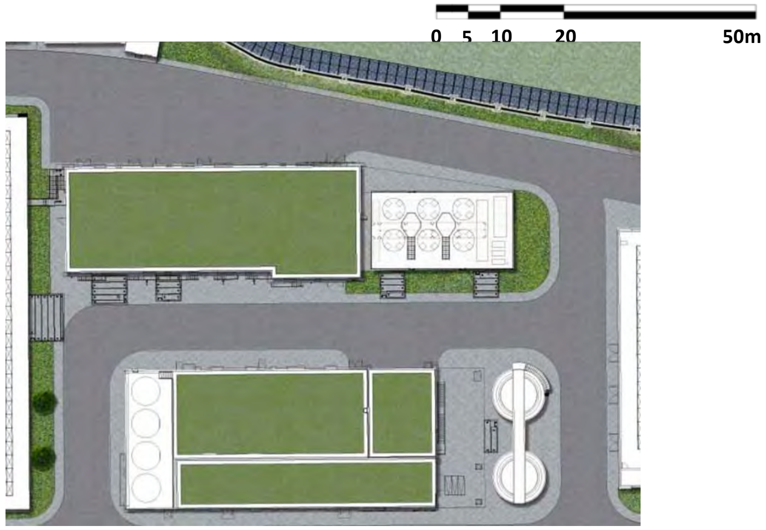
Scale: 1:800@A1 | Status: DETAILED DESIGN APPROVAL

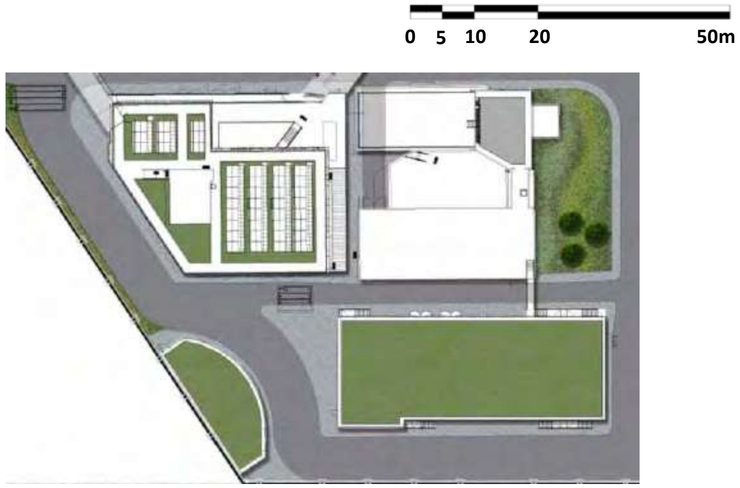
Appendix E - Soft Landscape Design (Green Roof)

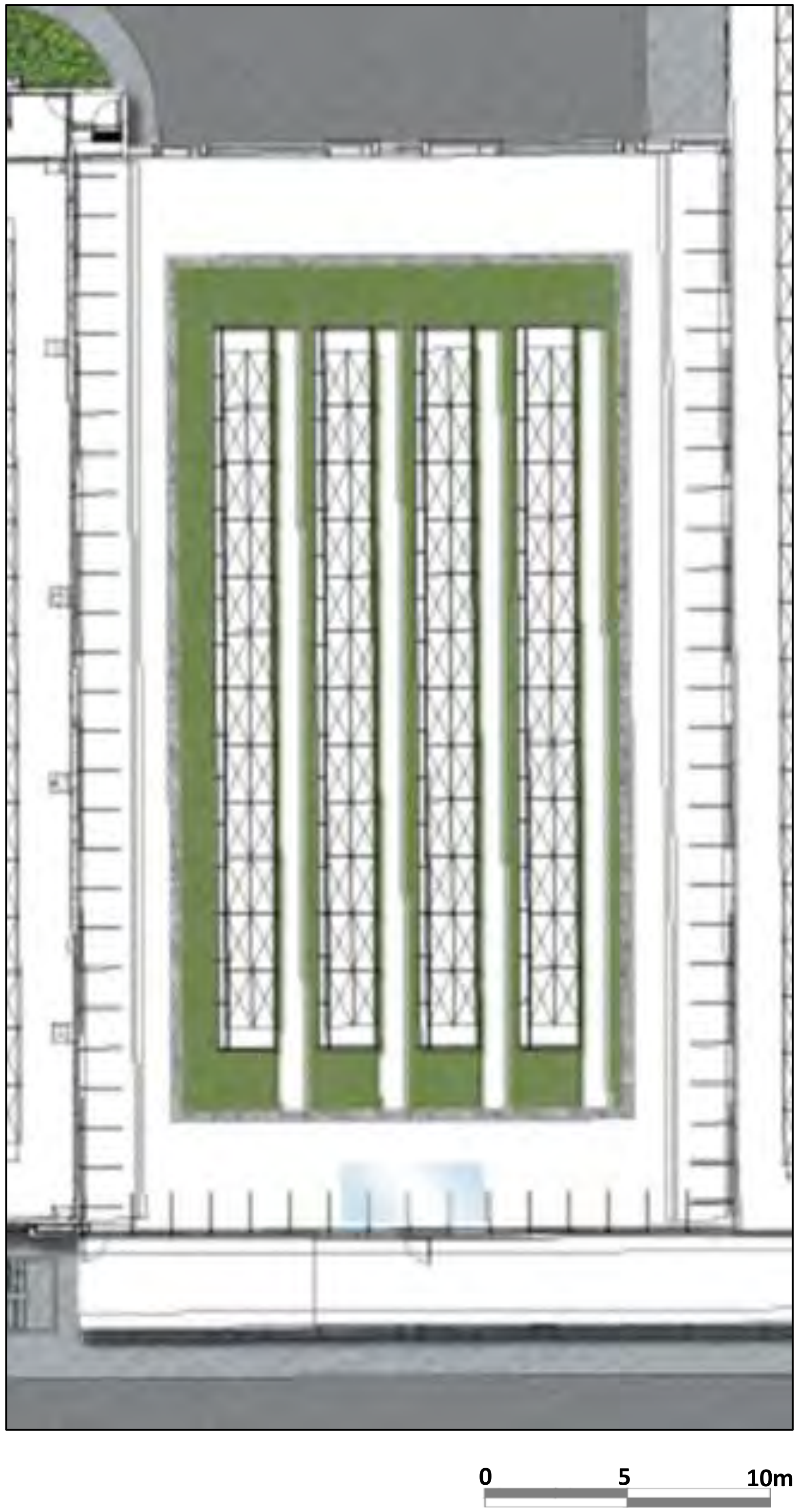
AS-BUILT

Typical Edge Detail

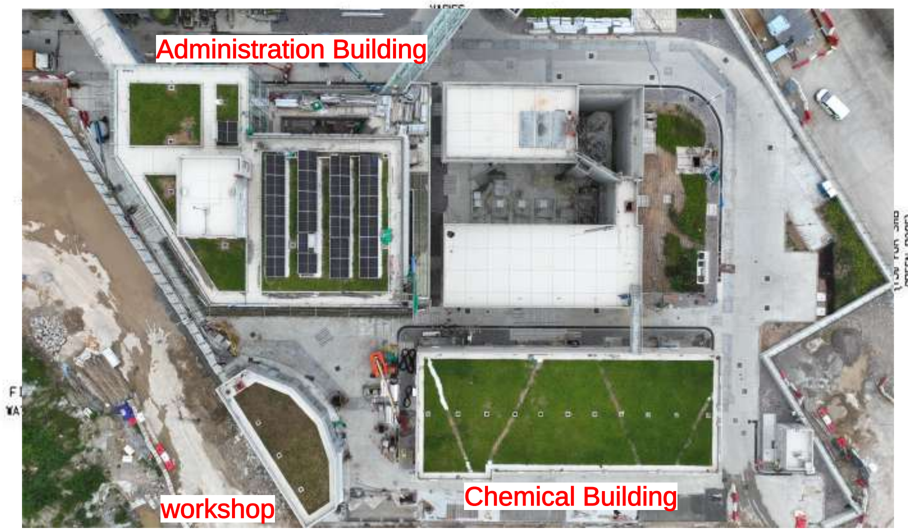




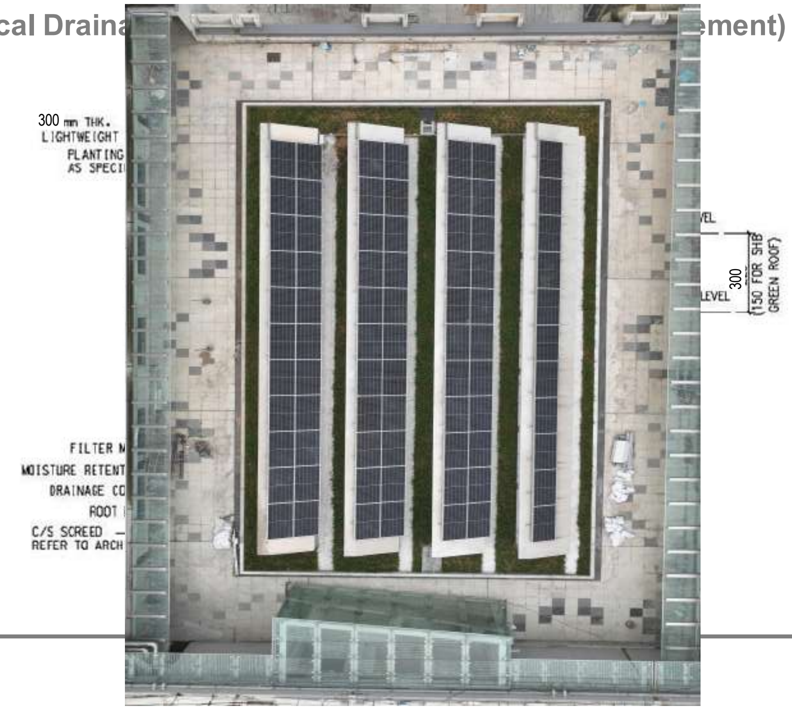




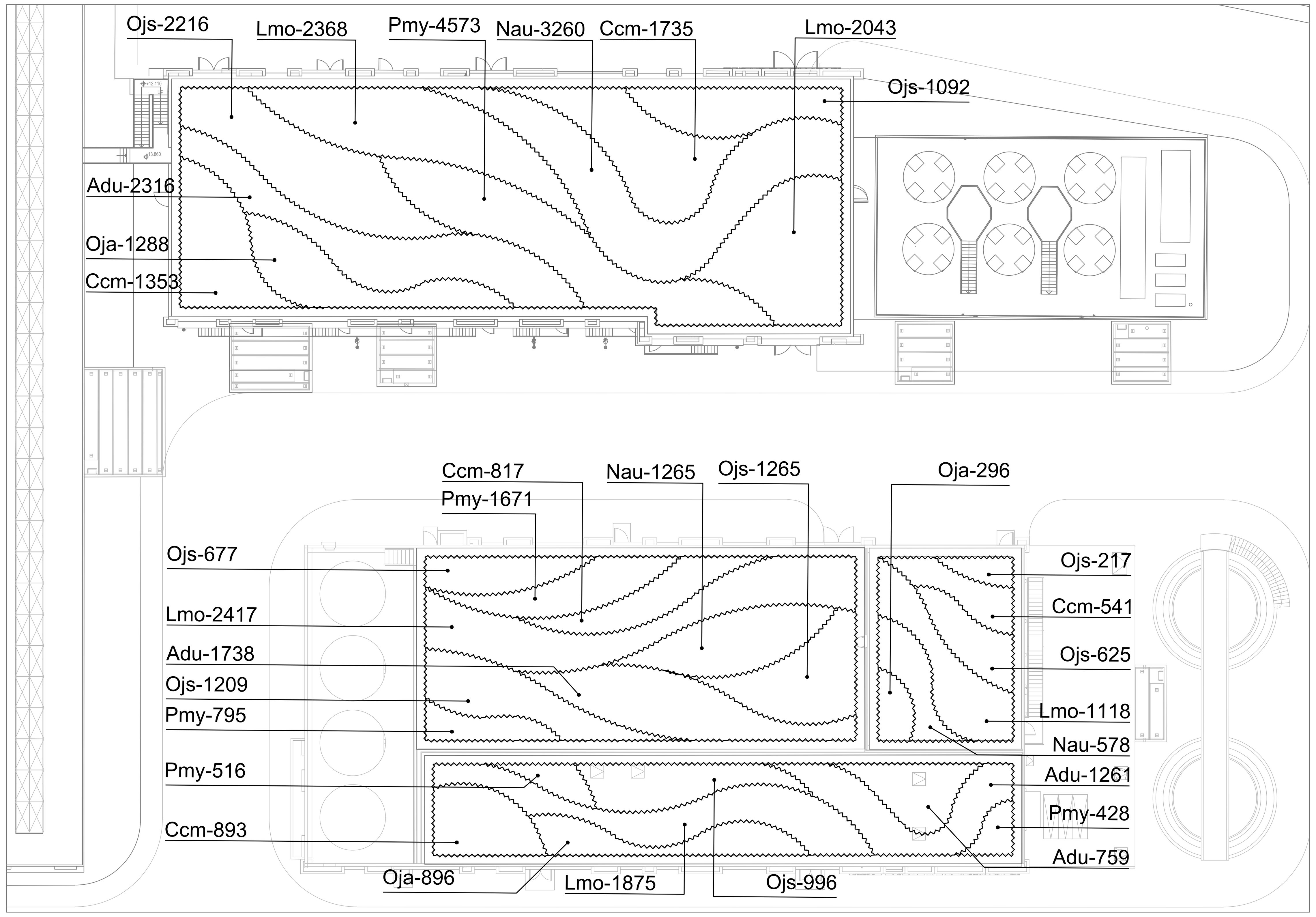
Typical Green Roof Detail



Typical Drain ... ement)



RO LOWER ROOF



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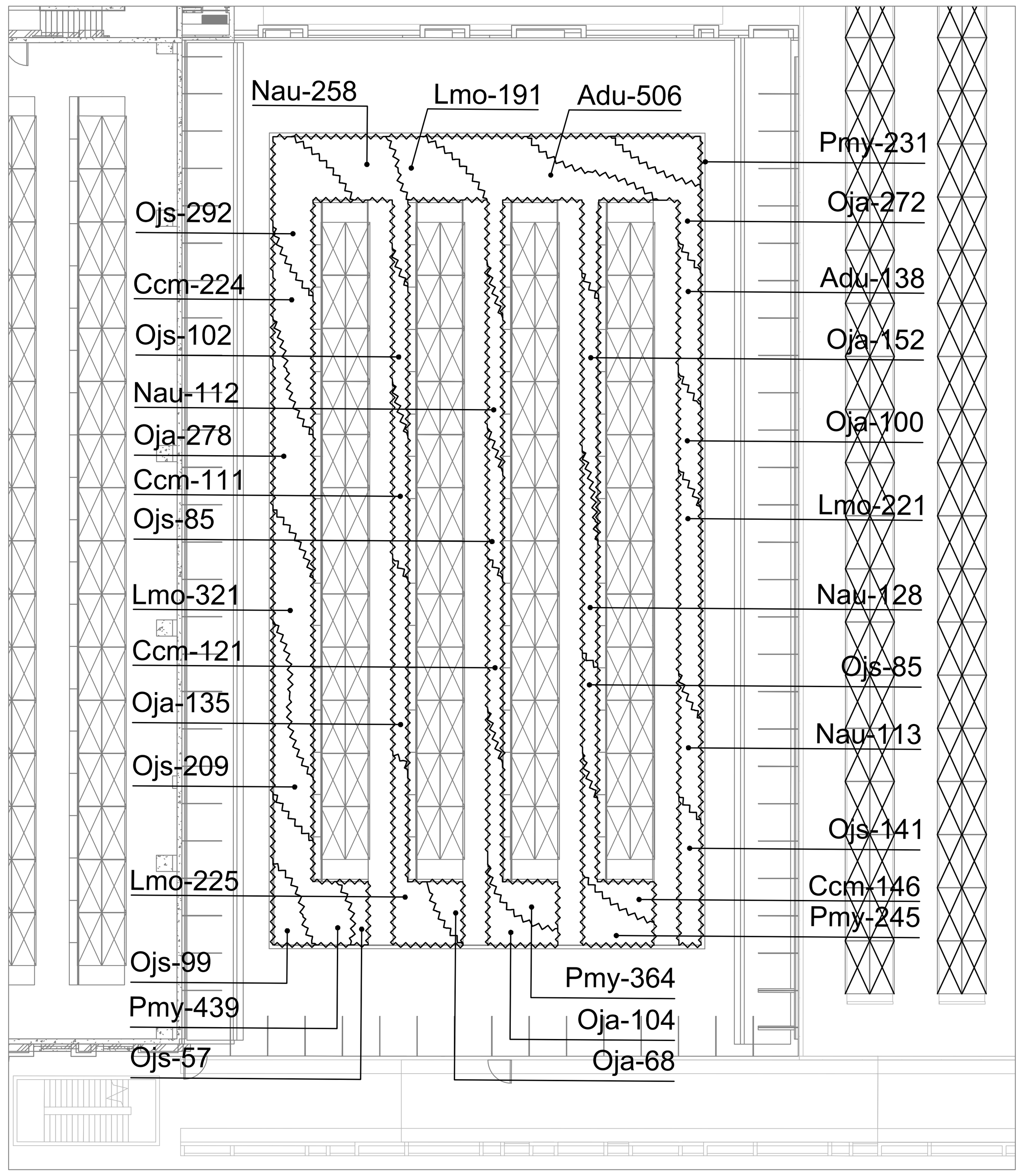
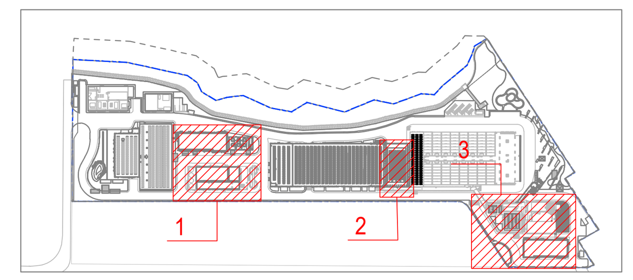


BLOW UP 2 SCALE 1:200

KEY PLAN scale 1:6000

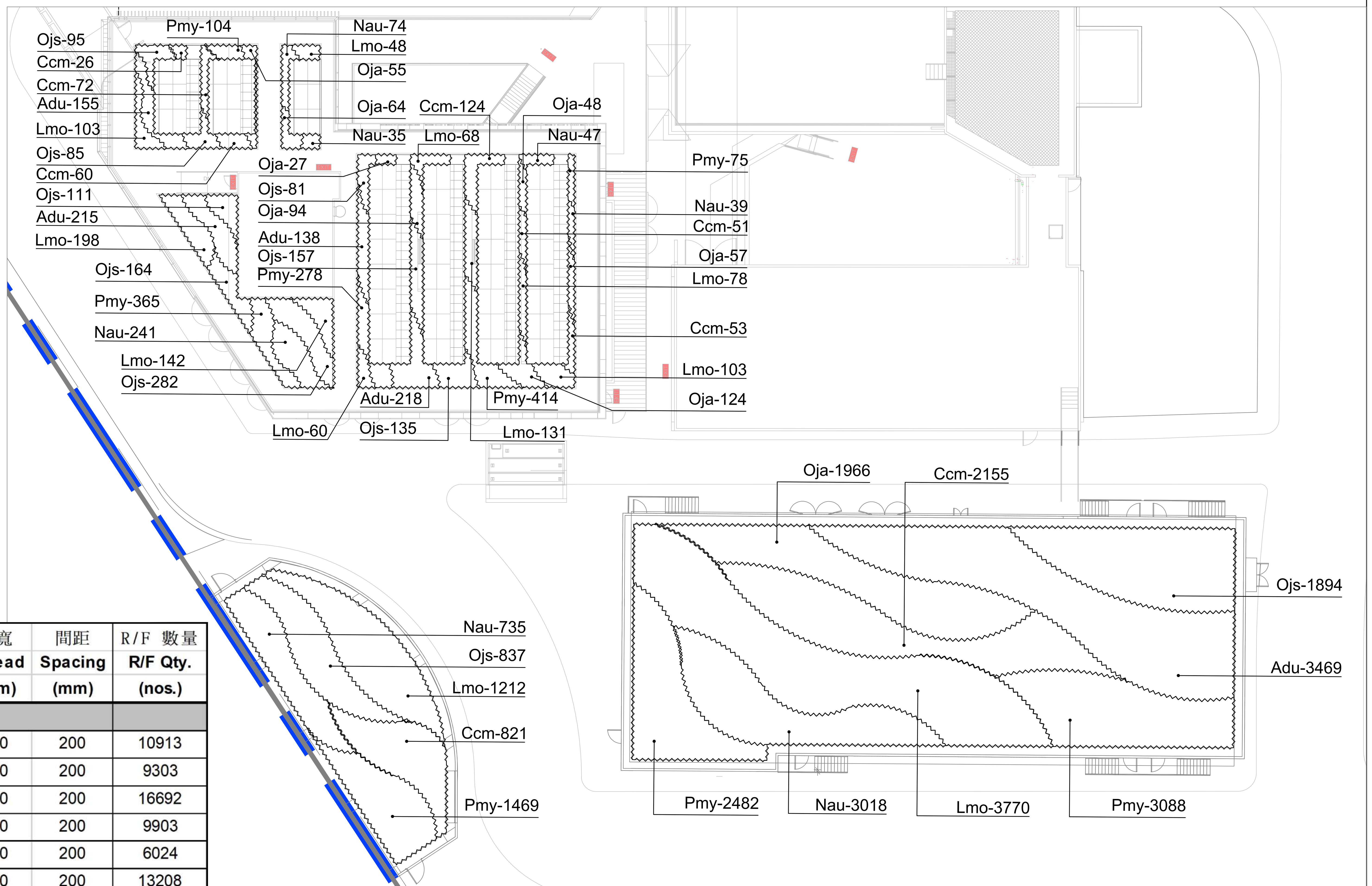


LEGEND:

SHRUBS & GROUNDCOVERS

AS-BUILT

REMARKS:
NOT LESS THAN 300mm SOIL DEPTH SHOULD BE PROVIDED FOR THOSE AREAS PLANTED WITH FOR GROUNDCOVERS.



BLOW UP 3 SCALE 1:200

PLANTING LIST

序號 Item	植物名稱 Botanical Name Common Name	中文名稱 Chinese Name	高度 Height (mm)	冠寬 Spread (mm)	間距 Spacing (mm)	R/F 數量 R/F Qty. (nos.)
Groundcovers						
Adu	*Arachis duranensis*	蔓花生	100	100	200	10913
Ccm	*Chlorophytum comosum cv. Marginatum*	金邊吊蘭	200	200	200	9303
Lmo	*Lantana montevidensis*	紫花馬纓丹	200	200	200	16692
Nau	*Nephrolepis auriculata*	腎蕨	250	200	200	9903
Oja	*Ophiopogon japonicus*	麥冬	250	200	200	6024
Ojs	*Ophiopogon jaburan (Siebold) Lodd.*	花葉沿階草	250	200	200	13208
Pmy	*Phyllanthus myrtifolius*	錫蘭葉下珠	250	200	150	17537

Rev	Description	By	Date
A	GENERAL REVISION	AC	2021/11/11

Employer
水務署 Water Supplies Department

Supervising Officer designate
binnies

Design Checker
ARCADIS Design & Consultancy for natural and built assets

Contractor
acciona JEC 中國建築 AJC JOINT VENTURE

Designer
wsp In Association with APU

Project title
CONTRACT NO. 13/WSD/17
DESIGN, BUILD AND OPERATE FIRST STAGE OF TSEUNG KWAN O DESALINATION PLANT

Drawing title
SHRUBS PLAN – ROOF FLOOR
–
–
–
–

Drawing no. TKOD1–DWG–A000–WLA3113 Rev. A

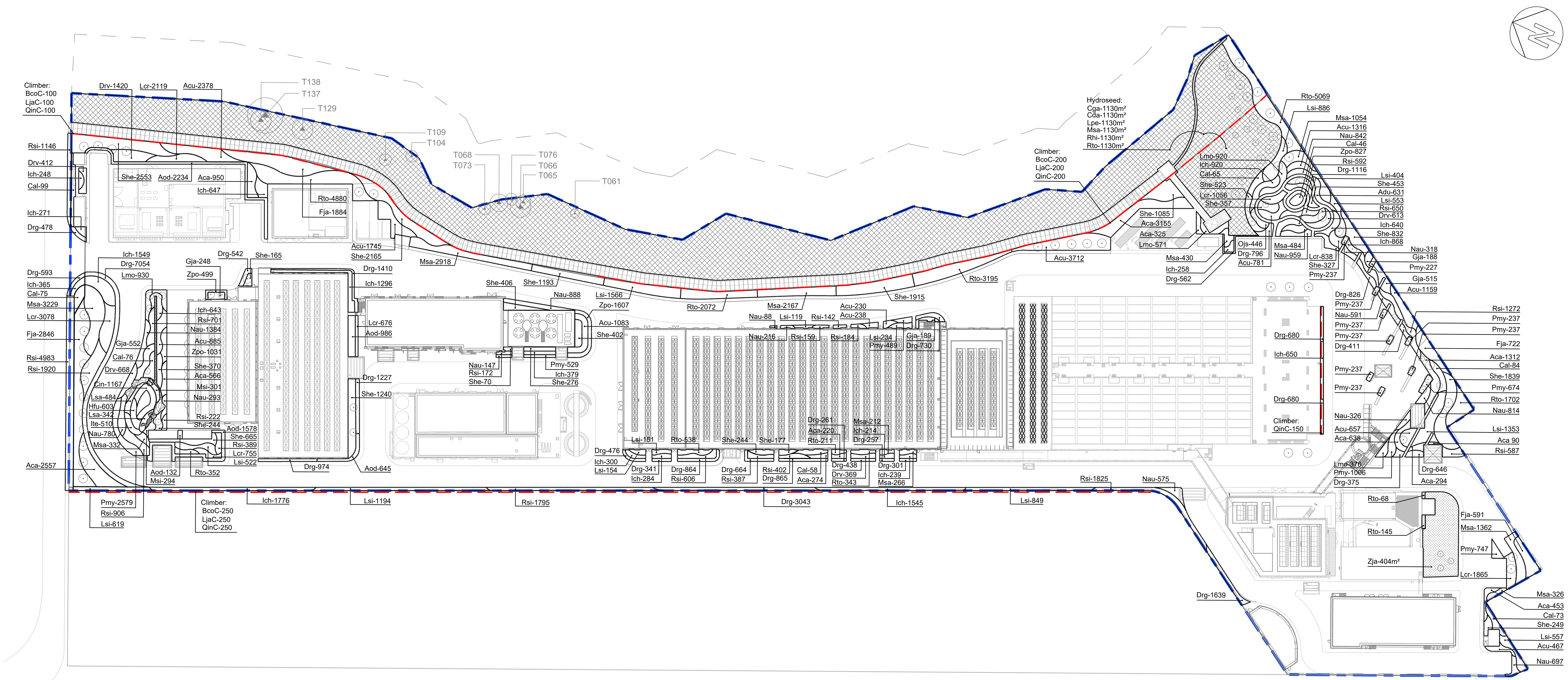
Drawn	Date	Checked	Approved
AC	10 MAY 2021	XL	–

Scale AS SHOWN@A1 Status DETAILED DESIGN APPROVAL

PLANTING LIST

序號 Item	植物名稱 Botanical Name Common Name	中文名稱 Chinese Name	高度 Height (mm)	冠寬 Spread (mm)	間距 Spacing (mm)	G/F 數量 G/F Qty. (nos.)
Groundcovers						
Adu	*Arachis duranensis*	蔓花生	100	100	200	630
Lmo	*Lantana montevidensis*	紫花馬纓丹	200	200	200	2797
Nau	*Nephrolepis auriculata*	腎蕨	250	200	200	8918
Ojs	*Ophiopogon jaburan (Siebold) Lodd.*	花葉沿階草	250	200	200	446
Pmy	*Phyllanthus myrtifolius*	錫蘭葉下珠	250	200	150	8147
Shrubs						
Aca	*Allamanda cathartica*	軟枝黃蟬	400	300	200	10834
Acu	*Asclepias curassavica*	馬利筋	300	200	200	14651
Aod	*Aglaia odorata*	米仔蘭	400	300	200	5575
Cal	*Cassia alata*	翅莢決明	1200	800	600	576
Drg	*Duranta repens 'golden'*	金連翹	300	250	150	28249
Drv	*Duranta repens 'Variegata'*	花葉連翹	300	250	200	3482
Fja	*Fatsia japonica*	八角金盤	500	350	300	6043
Gja	*Gardenia jasminoides*	梔子花	500	350	250	1692
Ich	*Ixora chinensis*	龍船花	500	300	200	13092
Lcr	*Loropetalum chinensis var. rubrum*	紅繼木	300	200	150	10387
Lsi	*Ligustrum sinense*	山指甲	500	350	250	9191
Msa	*Melastoma sanguineum*	毛茶	500	300	200	13910
Rsi	*Rhododendron simsii*	紅杜鵑	400	300	200	19040
Rto	*Rhodomyrtus tomentosa*	桃金娘	500	300	200	19705
She	*Schefflera heptaphylla*	鵝掌柴	400	300	250	17750
Zpo	*Zanthoxylum piperitum cv 'odorum'*	胡椒木	300	200	150	3964

序號 Item	植物名稱 Botanical Name Common Name	中文名稱 Chinese Name	高度 Height (mm)	冠寬 Spread (mm)	間距 Spacing (mm)	G/F 數量 G/F Qty. (nos.)	備註 Remark
Rain Garden							
Cin	*Canna indica*	美人蕉	400	300	200	1167	-
Hfu	*Hemerocallis fulva*	萱草	400	300	200	603	-
Ite	*Iris tectorum*	鳶尾	500	300	200	510	-
Lsa	*Lythrum salicaria*	千屈菜	400	400	200	826	-
Msi	*Miscanthus sinensis*	細葉芒	400	300	200	595	-
Climber							
BcoC	*Bauhinia corymbosa*	首冠藤	800	300	500	550	-
LjaC	*Lonicera japonica*	金銀花	800	300	500	550	-
QinC	*Quisqualis indica*	使君子	1000	300	500	700	-
Hydroseed							
Cga	*Chloris gayana*	非洲虎尾草	-	-	-	1130m^2	按平方米計算(m^2)
Cda	*Cynodon dactylon*	狗牙根	-	-	-	1130m^2	按平方米計算(m^2)
Lpe	*Lolium perenne*	黑麥草	-	-	-	1130m^2	按平方米計算(m^2)
Msa	*Melastoma sanguineum*	毛茶	-	-	-	1130m^2	按平方米計算(m^2)
Rhi	*Rhus chinensis*	鹽膚木	-	-	-	1130m^2	按平方米計算(m^2)
Rto	*Rhodomyrtus tomentosa*	桃金娘	-	-	-	1130m^2	按平方米計算(m^2)
Lawn							
Zja	*Zoysia japonica*	台灣草	-	-	-	410m^2	按平方米計算(m^2)



LEGEND:

- SITE BOUNDARY
- SHRUBS & GROUNDCOVERS
- LAWN
- PLANTING AREA FOR HYDROSEED
- CLIMBER
- PROPOSED NEW TREE
- RETAINED TREE

AS-BUILT

REMARKS:
NOT LESS THAN 600mm SOIL DEPTH SHOULD BE PROVIDED FOR THOSE AREAS PLANTED WITH SHRUBS AND 300mm SOIL DEPTH FOR GROUNDCOVERS.

Rev	Description	By	Date
A	GENERAL REVISION	AC	2021/11/11

Employer: 水務署 Water Supplies Department

Supervising Officer designate: binnies

Design Checker: ARCADIS

Contractor: acciona JEC 中國建築 AJC JOINT VENTURE

Designer: wsp In Association with APU

Project title: CONTRACT NO. 13/WSD/17 DESIGN, BUILD AND OPERATE FIRST STAGE OF TSEUNG KWAN O DESALINATION PLANT

Drawing title: SHRUBS PLAN – GROUND FLOOR

Drawing no.: TKOD1–DWG–A000–WLA3112 Rev.: A

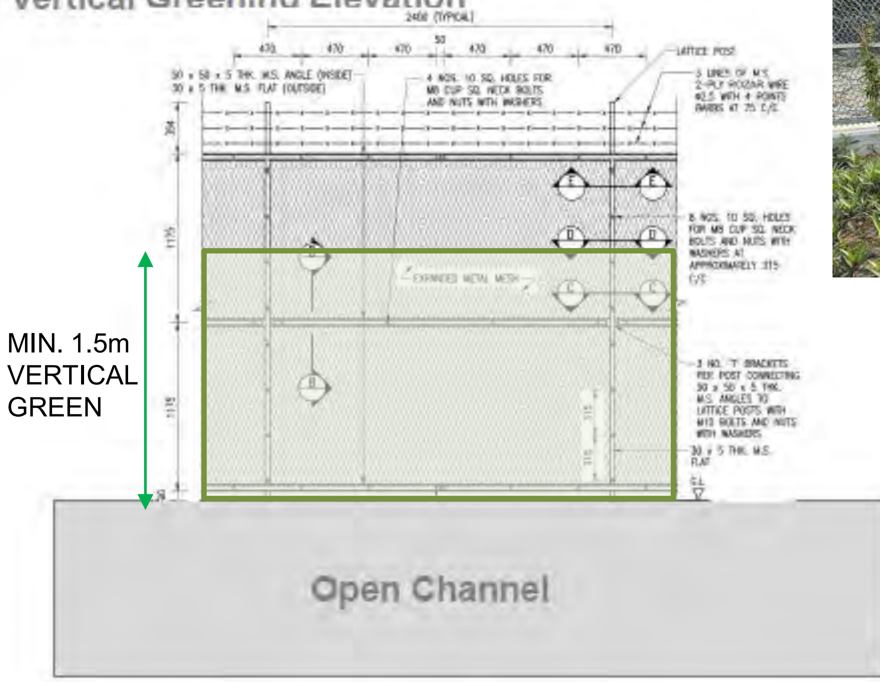
Drawn: AC | Date: 10 MAY 2021 | Checked: XL | Approved: –

Scale: 1:800@A1 | Status: DETAILED DESIGN APPROVAL

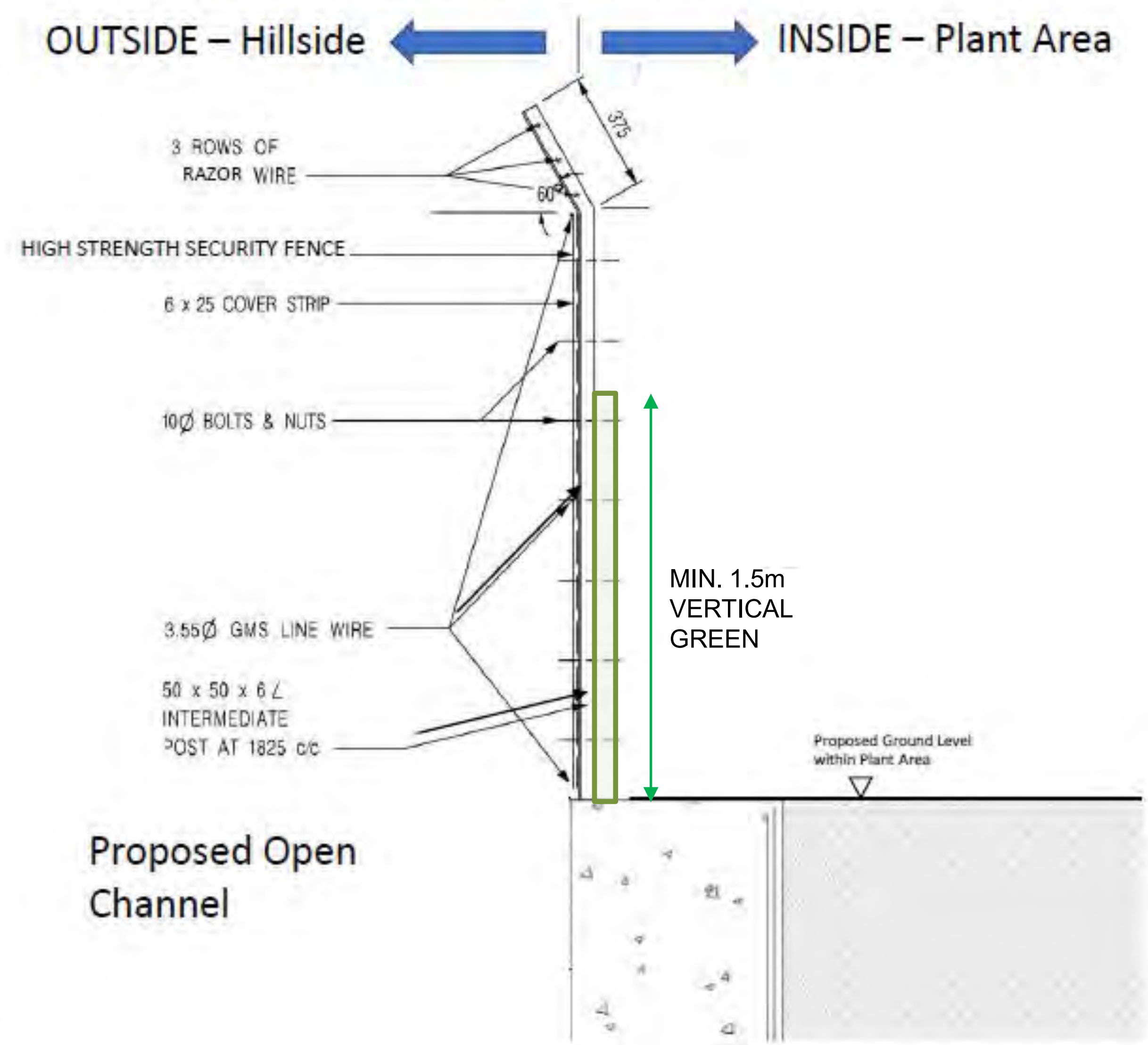
Appendix E - Soft Landscape Design (Vertical Greening) - Open Chanel Fence Wall

AS-BUILT

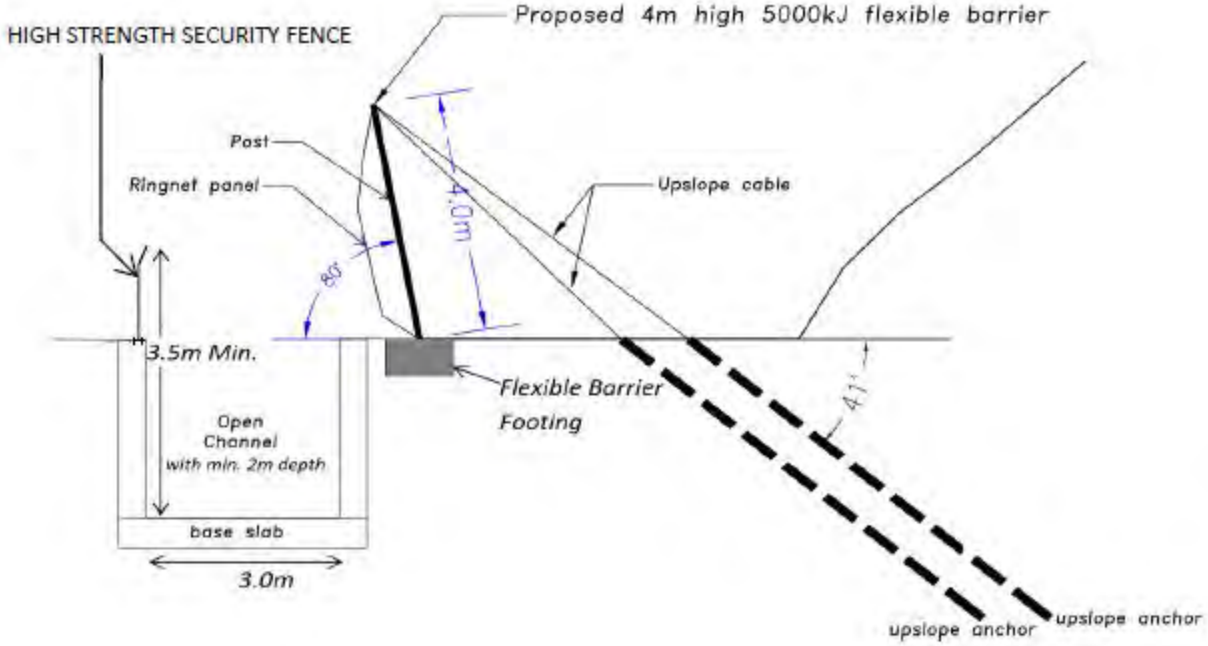
Typical Vertical Greening Elevation



Typical Vertical Greening Section

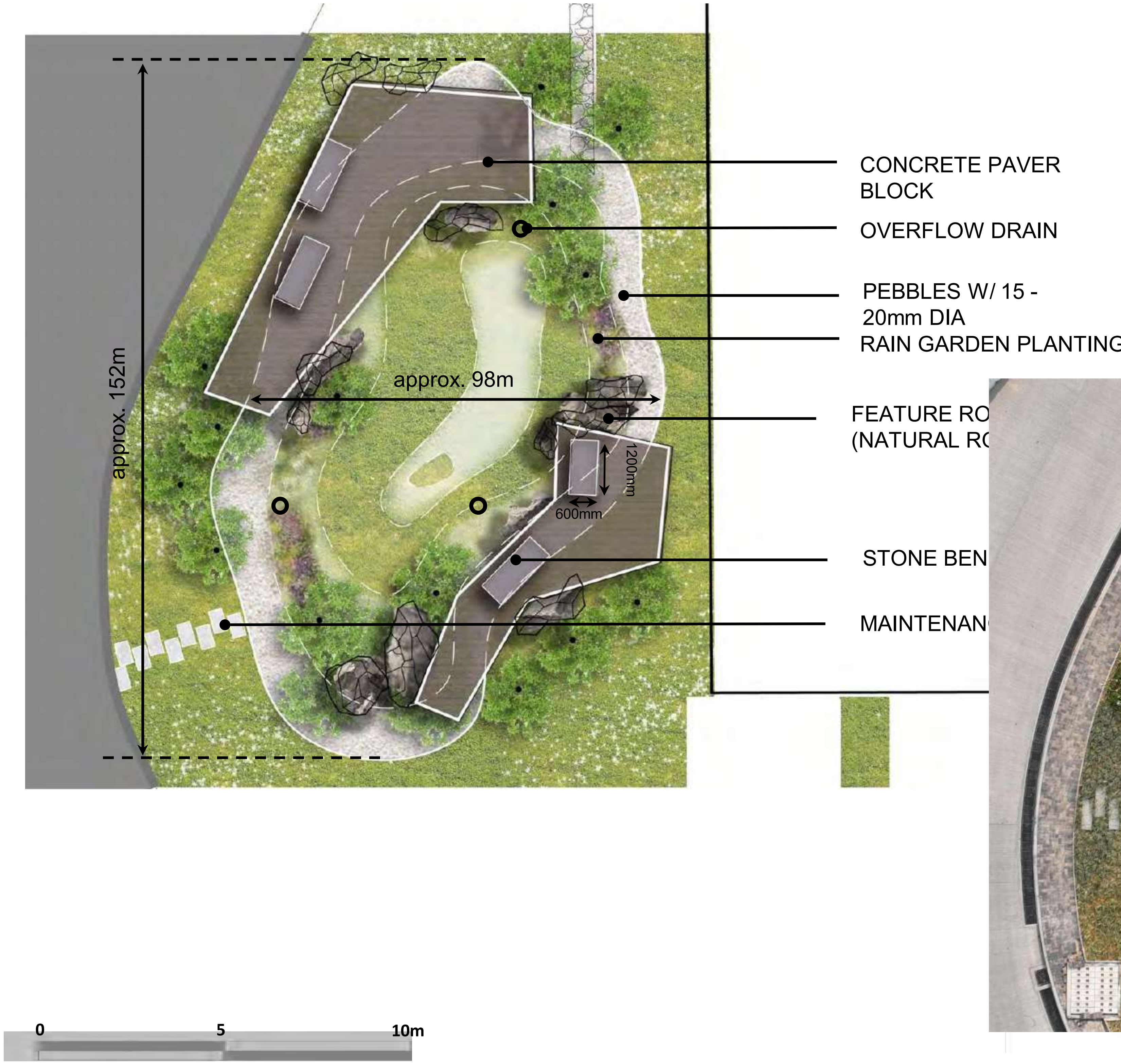


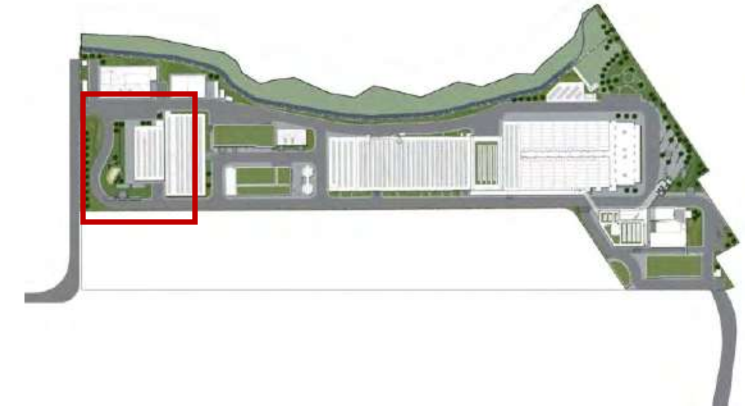
Vertical Greening adjacent to Open Channel



Appendix E - Soft Landscape Design (Rain Garden)

AS-BUILT

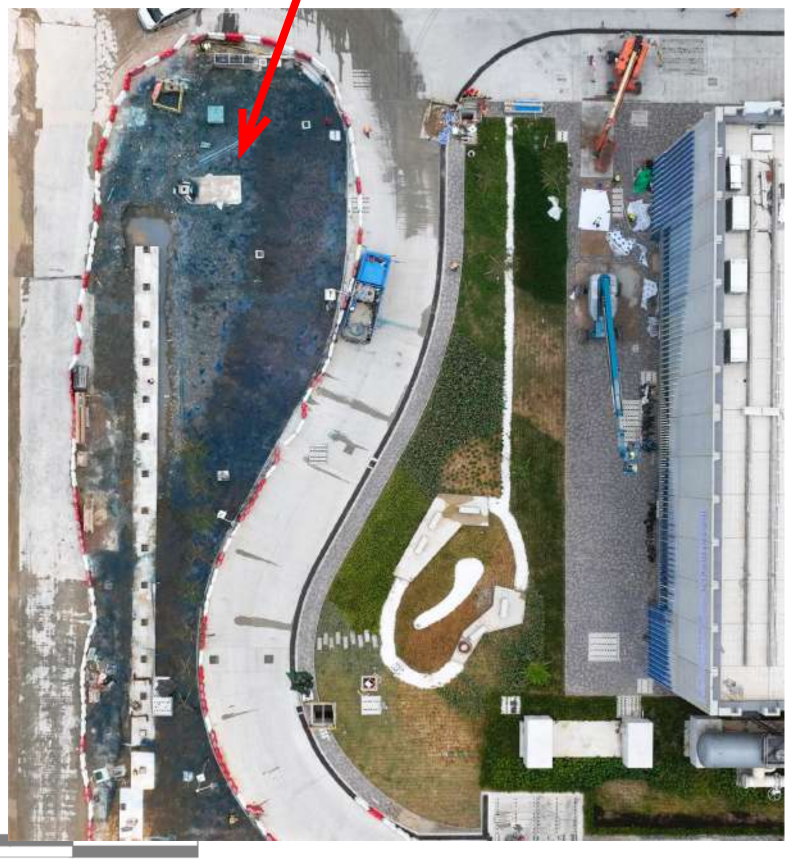




Appendix E - Soft Landscape Design (Main Entrance)

AS-BUILT

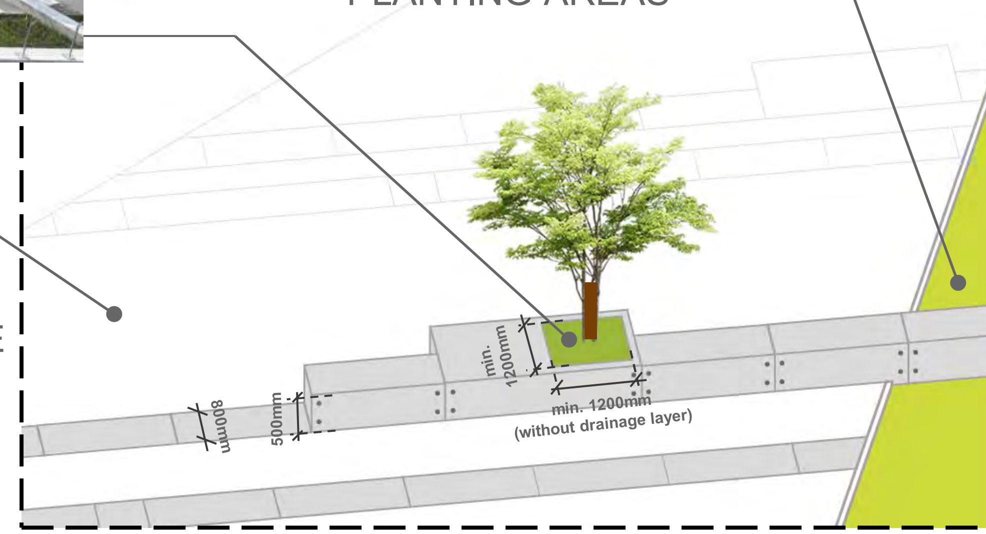
THE PLANTING AREA
WAS SEEDED



Appendix E - Soft Landscape Design (Drop off Plaza)

AS-BUILT

OW UP AXON



PLANTING AREAS

MIN 1200mm (WITHOUT
DRAINAGE LAYER) SOIL DEPTH

PAVER BLOCK WITH
RANDOM MIXING

FAIR FACE CONC. FEATURE
(800MM WIDTH)

PLANTER BOX FAIR FACE
CONC. FEATURE
(1500MM WIDTH)

SECTIO

ADE PLANTER

ACE CONC.
RE

PLANTING
AREAS

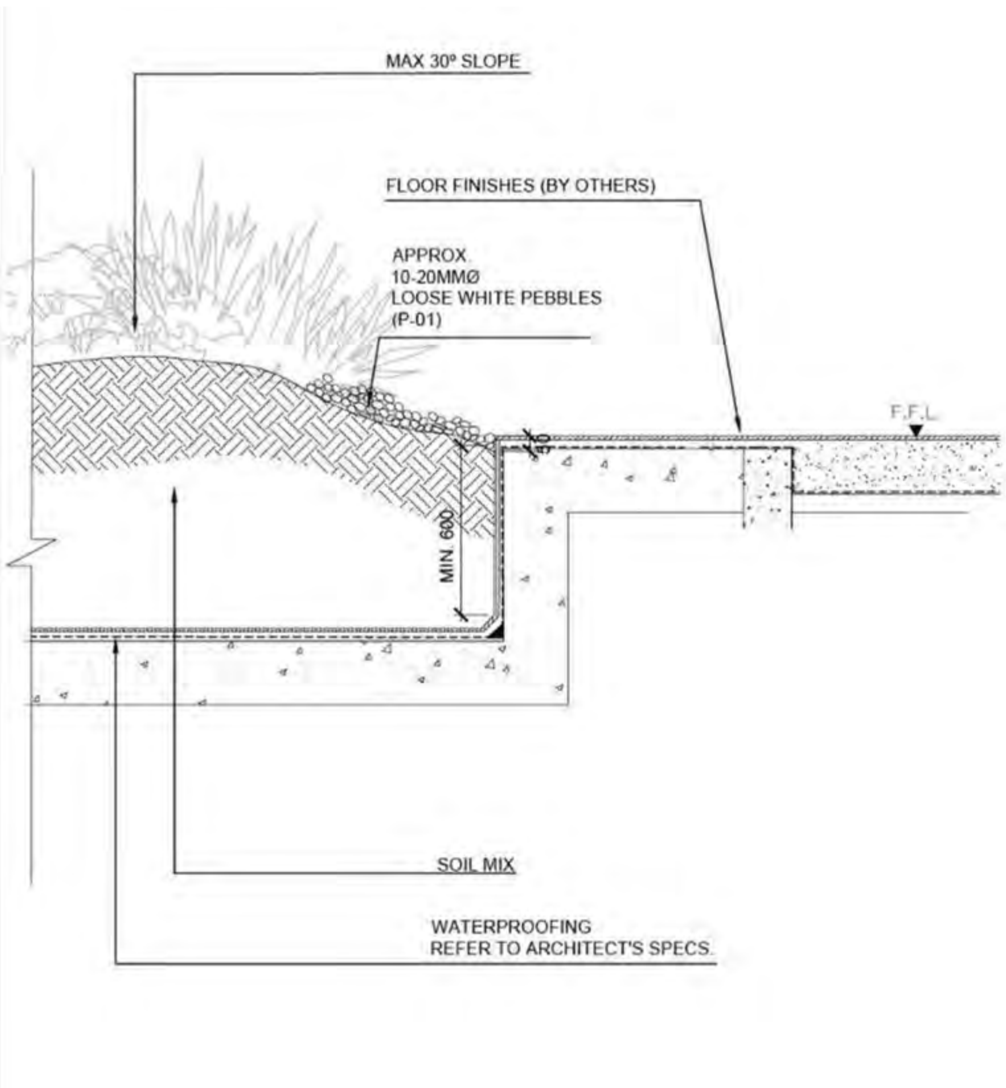
MANHOLE WITH MATCHING
COVER

GRANOLITHIC FINISH

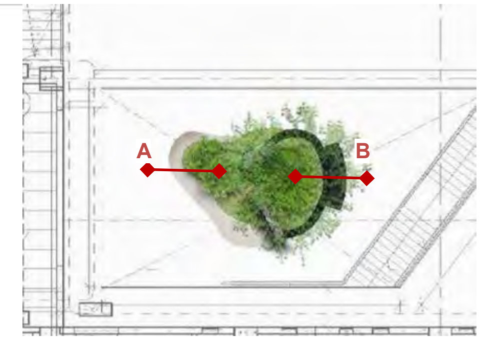
PLANTER ALONG STAIR

Appendix E - Soft Landscape Design (Admin Building)
Section Details

AS-BUILT



Section A



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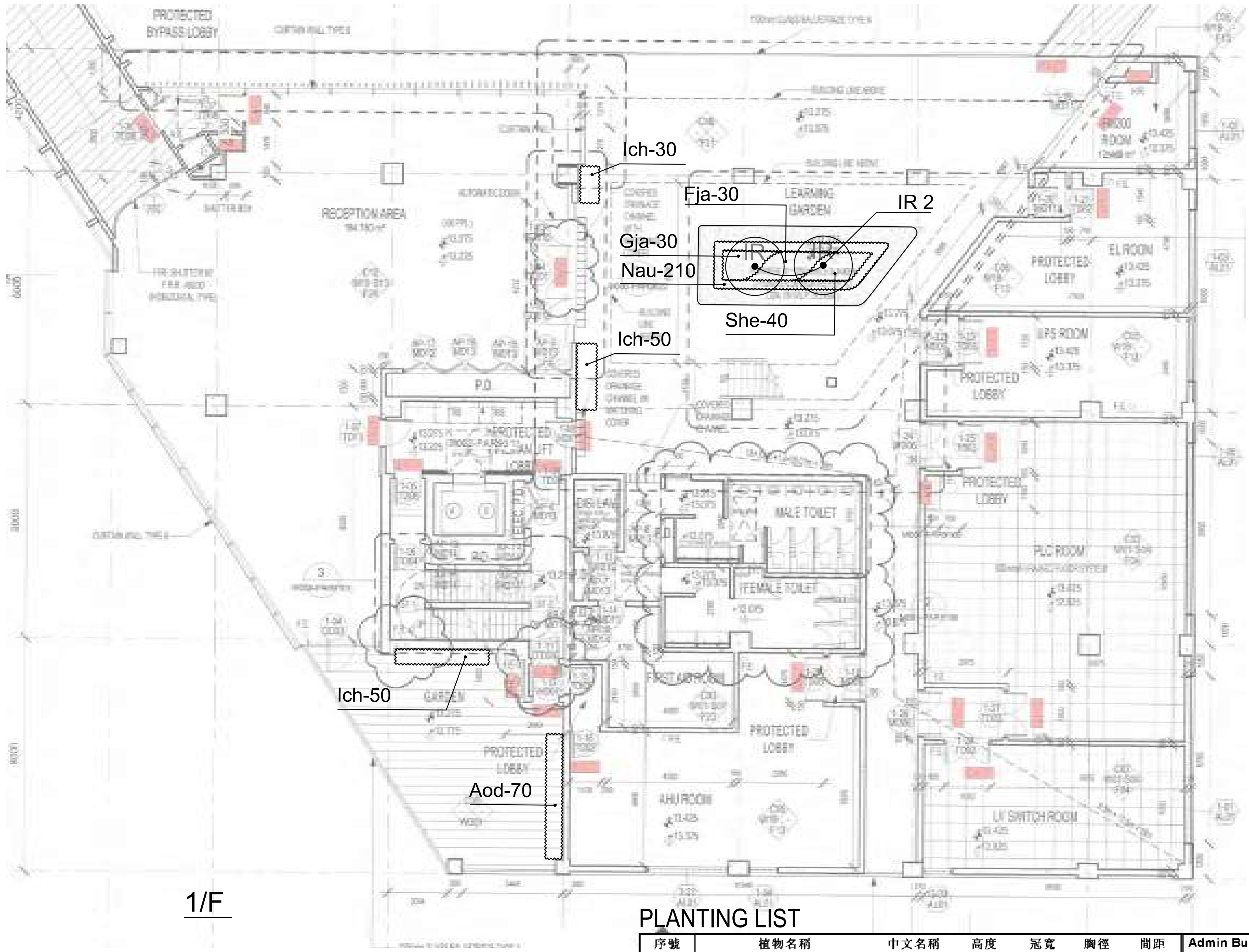


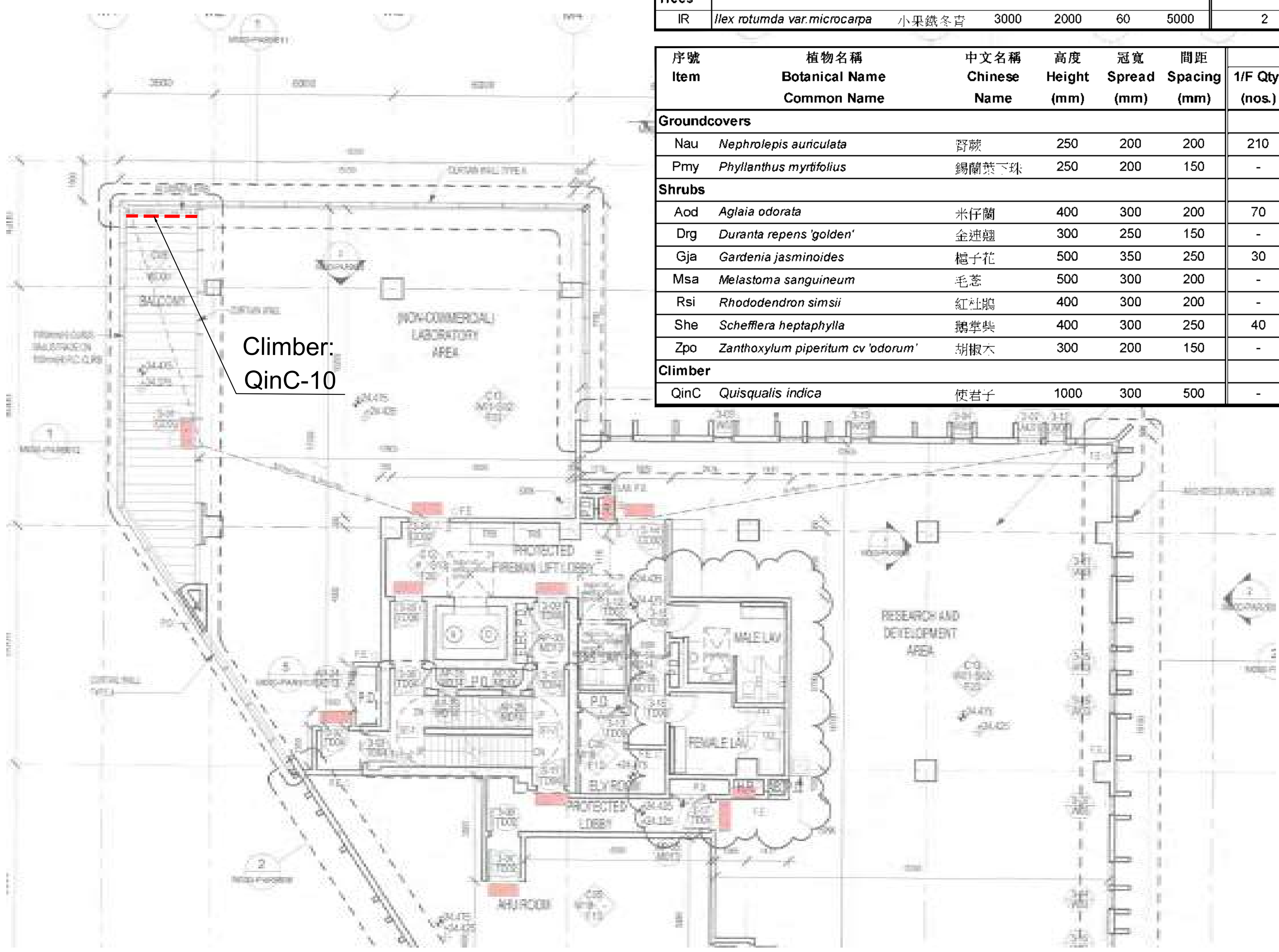
1/F

2/F

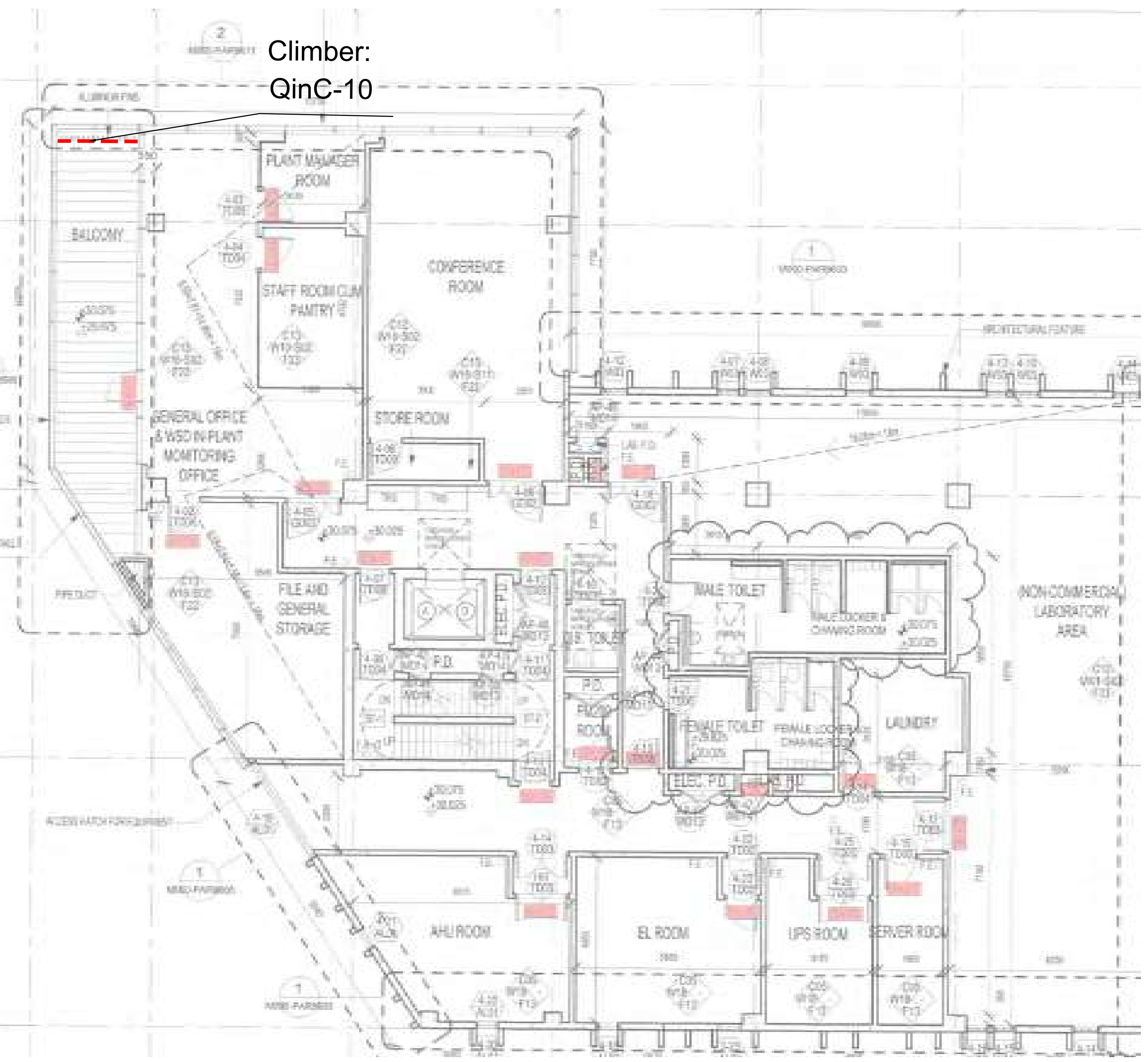
PLANTING LIST

序號 Item	植物名稱 Botanical Name Common Name	中文名稱 Chinese Name	高度 Height (mm)	冠寬 Spread (mm)	胸徑 DBH (mm)	間距 Spacing (mm)	Admin Building 1/F Qty. (nos.)
Trees							
IR	*Ilex rotumda var.microcarpa*	小果鐵冬青	3000	2000	60	5000	2

序號 Item	植物名稱 Botanical Name Common Name	中文名稱 Chinese Name	高度 Height (mm)	冠寬 Spread (mm)	間距 Spacing (mm)	Admin Building 1/F Qty. (nos.)	 2/F Qty. (nos.)	 3/F Qty. (nos.)	 4/F Qty. (nos.)
Groundcovers									
Nau	*Nephrolepis auriculata*	腎蕨	250	200	200	210	93	-	-
Pmy	*Phyllanthus myrtifolius*	錫蘭葉下珠	250	200	150	-	148	-	-
Shrubs									
Aod	*Aglaia odorata*	米仔蘭	400	300	200	70	122	-	-
Drg	*Duranta repens 'golden'*	金連翹	300	250	150	-	102	-	-
Gja	*Gardenia jasminoides*	梔子花	500	350	250	30	147	-	-
Msa	*Melastoma sanguineum*	毛菍	500	300	200	-	41	-	-
Rsi	*Rhododendron simsii*	紅杜鵑	400	300	200	-	67	-	-
She	*Schefflera heptaphylla*	鵝掌柴	400	300	250	40	17	-	-
Zpo	*Zanthoxylum piperitum cv 'odorum'*	胡椒木	300	200	150	-	116	-	-
Climber									
QinC	*Quisqualis indica*	使君子	1000	300	500	-	-	10	10

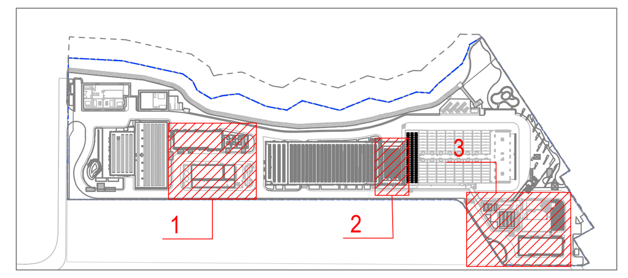


3/F



4/F

KEY PLAN scale 1:6000



LEGEND:

TREE

SHRUBS & GROUNDCOVERS

CLIMBER

AS-BUILT

REMARKS:
NOT LESS THAN 1200mm CLEAR SOIL WIDTH AND DEPTH SHOULD BE PROVIDED FOR ALL TREE PLANTING AREAS AND 600mm SOIL DEPTH FOR SHRUBS AND 300mm SOIL DEPTH FOR GROUNDCOVERS.

Rev	Description	By	Date

Employer
水務署
Water Supplies Department

Supervising Officer designate
binnies

Design Checker
ARCADIS Design & Consultancy for natural and built assets

Contractor
acciona JEC CSCEC
AJC JOINT VENTURE

Designer
wsp
In Association with APU

Project title
CONTRACT NO. 13/WSD/17

DESIGN, BUILD AND OPERATE
FIRST STAGE OF TSEUNG KWAN O
DESALINATION PLANT

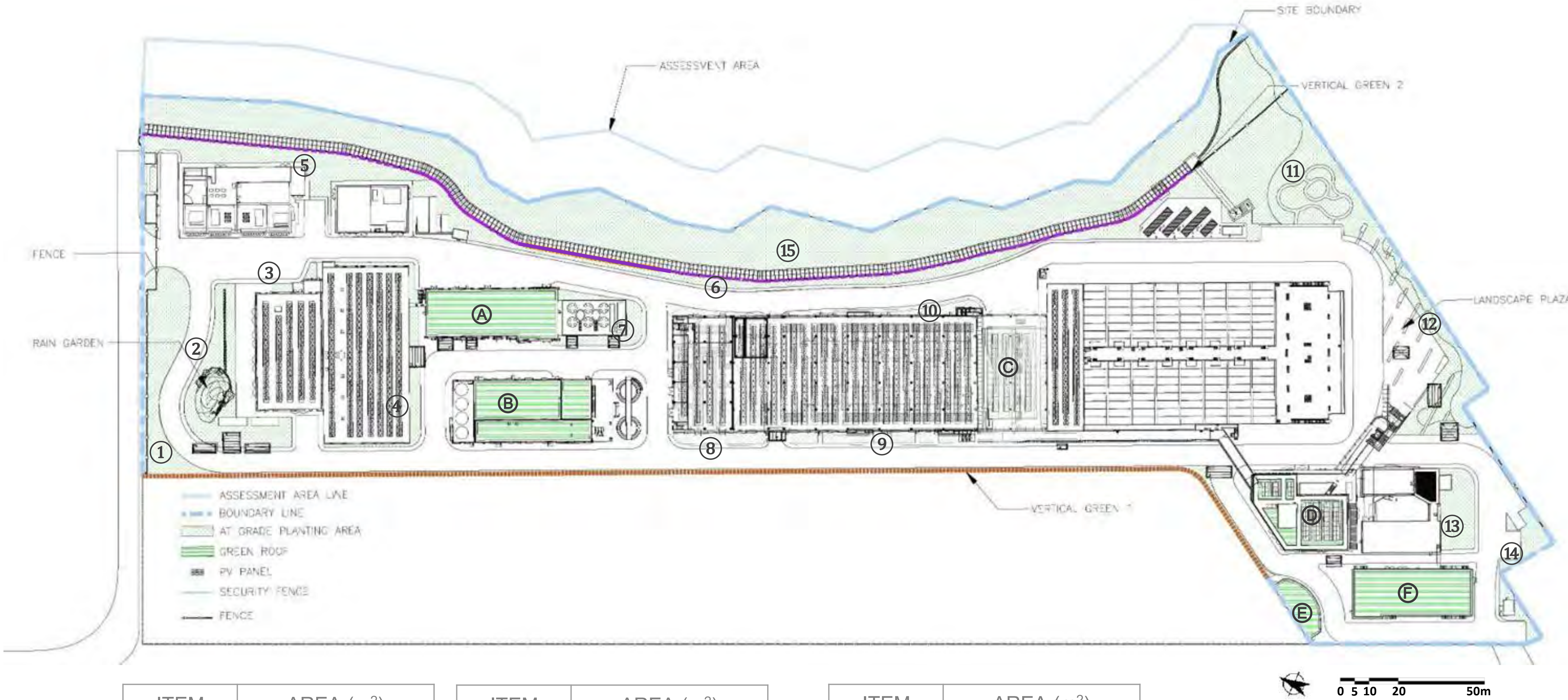
Drawing title
PLANTING PLAN – ADMIN BUILDING
–
–
–
–

Drawing no.	Rev.
TKOD1–DWG–A000–WLA3114	–

Drawn	Date	Checked	Approved
AC	10 MAY 2021	XL	–
Scale	1:125@A1	Status	DETAILED DESIGN APPROVAL

Appendix E - Soft Landscape Design (Green Area Calculation)

AS-BUILT



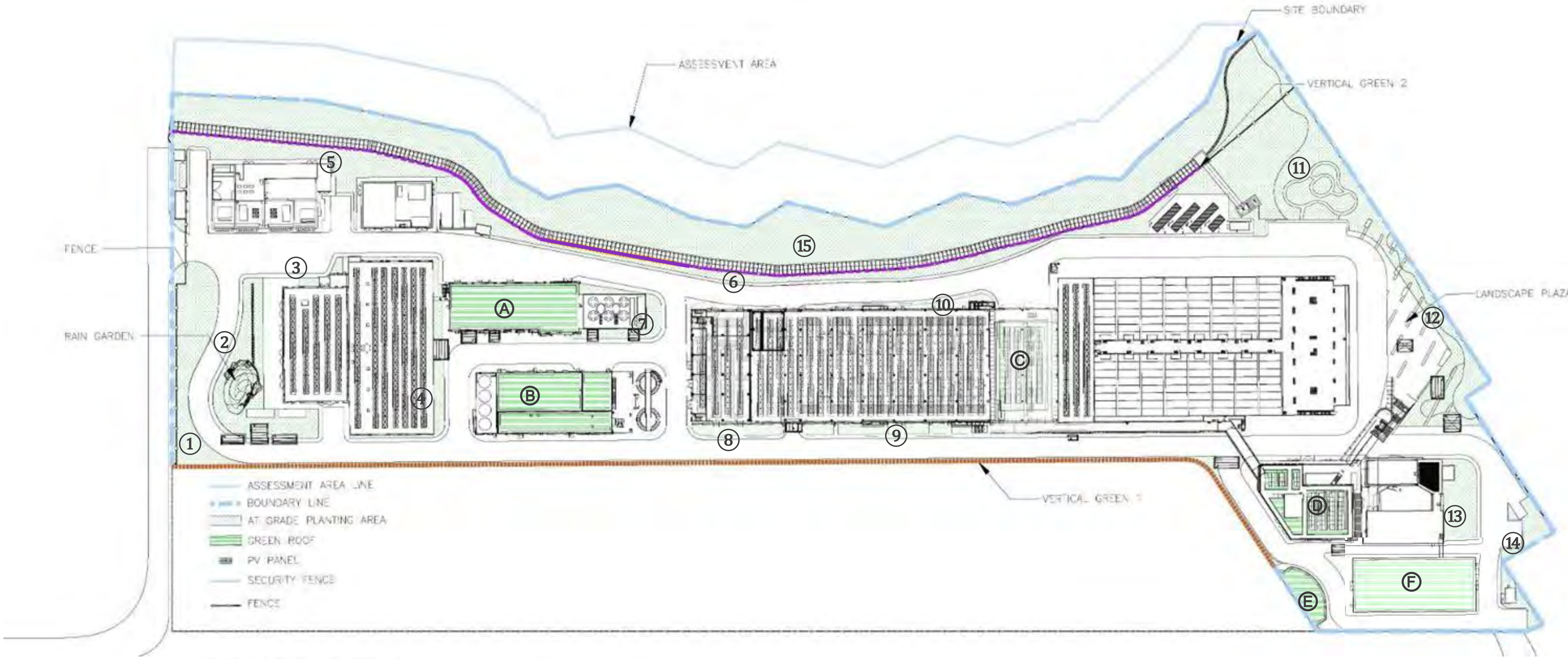
ITEM	AREA (m^2)
①	1252.578
②	736.357
③	42.288
④	250.301
⑤	805.819
⑥	1101.13
⑦	196.241
⑧	109.888

ITEM	AREA (m^2)
⑨	200.463
⑩	91.075
⑪	2245.921
⑫	663.355
⑬	318.392
⑭	259.803
⑮	5426.849
TOTAL	13700.46

ITEM	AREA (m^2)
Ⓐ	696.932
Ⓑ	736.342
Ⓒ	197.214
Ⓓ	162.64
Ⓔ	152.508
Ⓕ	622.136
TOTAL	2,567.772

Appendix E - Soft Landscape Design (Green Area Calculation)

AS-BUILT



SITE BOUNDARY: 56,120.8 SQM
30% GREENERY REQUIREMENT: 16,836.2 SQM
15% AT GRADE REQUIREMENT: 8,418.12 SQM
MAX. 30% CAP OF ALL GREENERY (VERTICAL GREEN, GRASS PAVER, COVERED PLANTING AREA): 5,050.86 SQM

AT GRADE TOTAL PLANTING AREA (EXCLUDING VERTICAL GREENING) : 13,700.46 SQM (Hence, the at grade greenery calculation requirement is achieved)
[1+2+3+4+5+6+7+8+9+10+11+12+13+14+15]

GREEN ROOF (EXCLUDING VERTICAL GREENING) : 2,567.772 SQM
[A+B+C+D+E+F]

VERTICAL GREEN 1: 585.137(L) X 3(H) = 1,755.411 SQM (Detail refer to A15 and A16)

VERTICAL GREEN 2: 222.689(L) X 1.5(H) = 334.034 SQM (Detail refer to A14)

TOTAL GREENERY AREA: 13,700.46 + 2,567.772 + 1,755.411 + 334.034 = 18,357.677 SQM (32.71%)

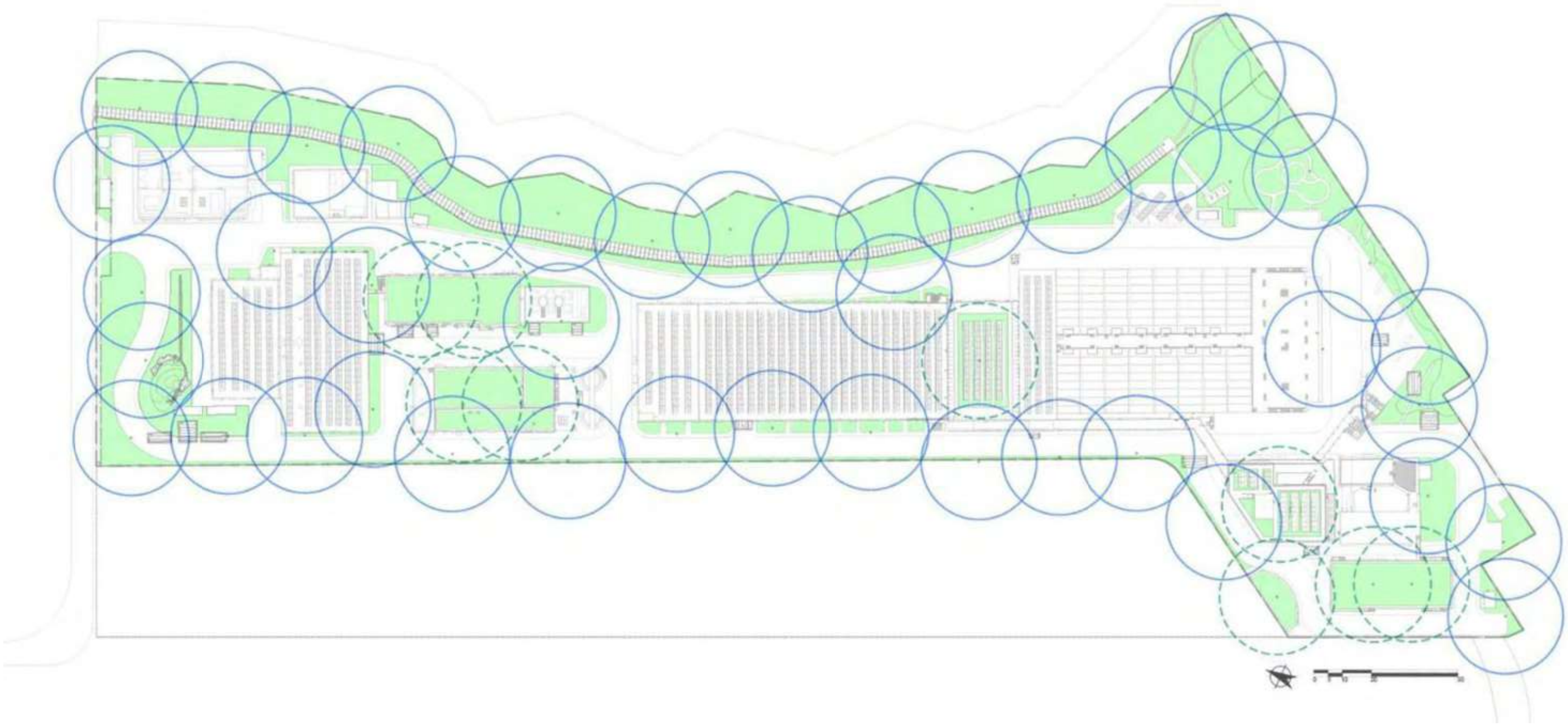
Proposed GAC 32.7% (18358 SQ.M.) > Required GAC 30% (16836 SQ.M.)

App E - Soft Landscape Design (Irrigation Points)

AS-BUILT

20m radius irrigation point on G/F

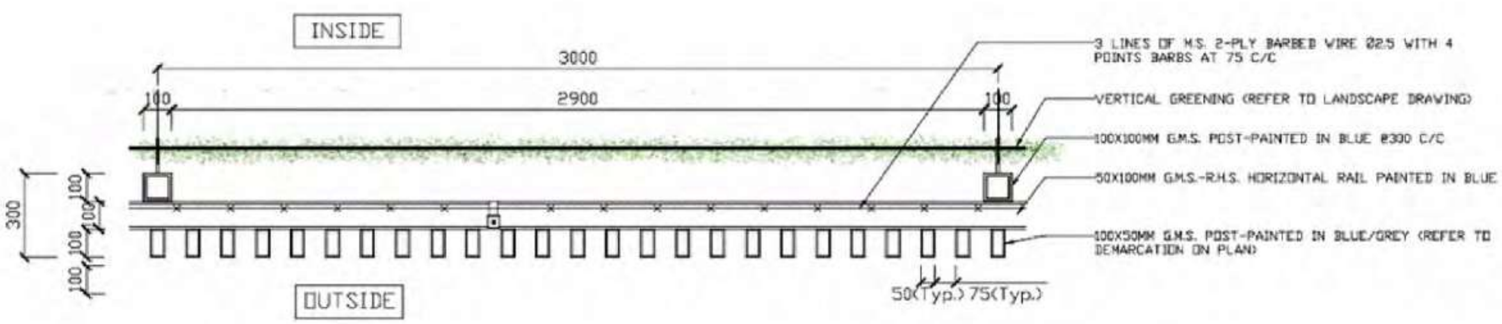
20m radius irrigation point on Rooftop



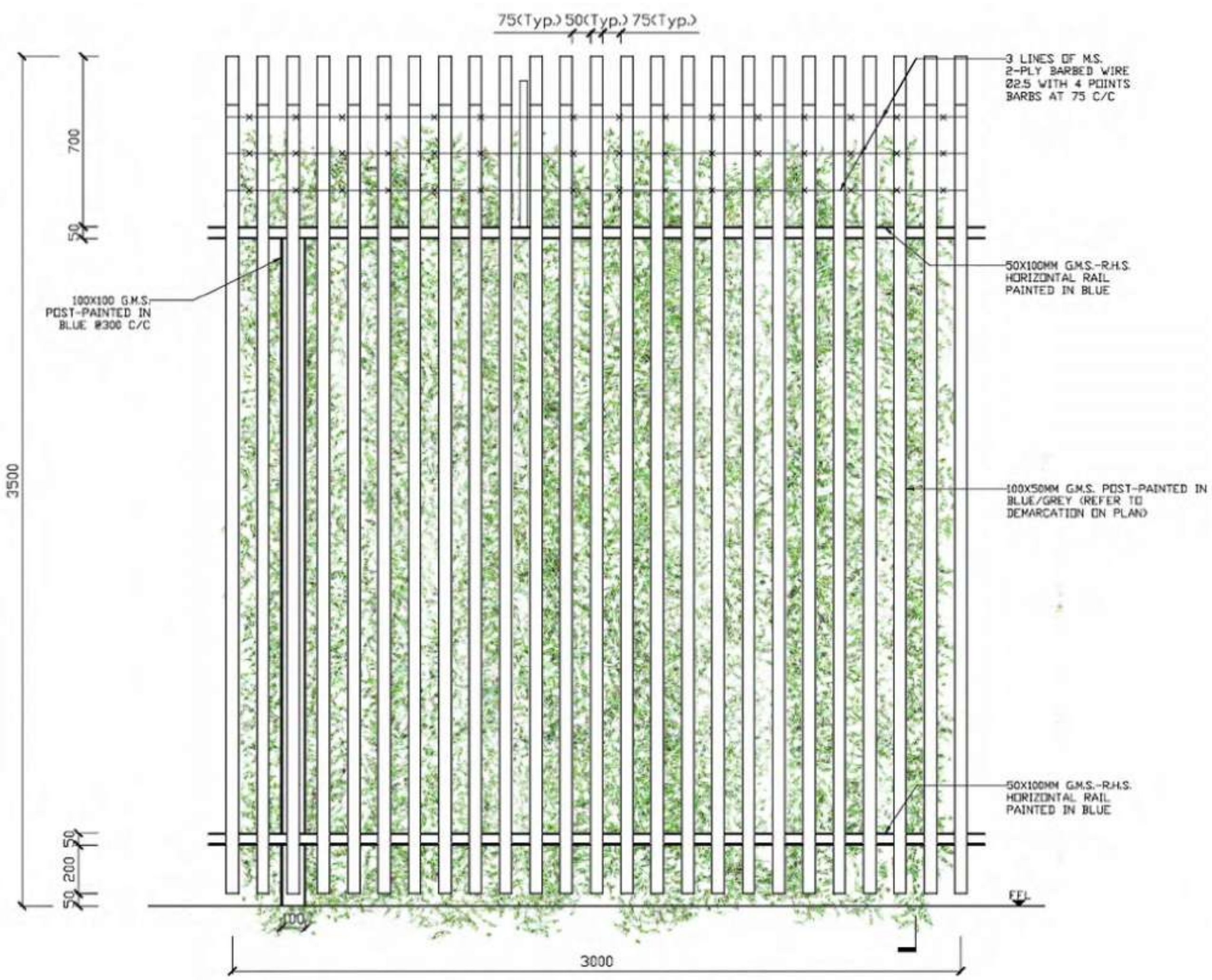
Appendix E - Soft Landscape Design (Vertical Greening)

AS-BUILT

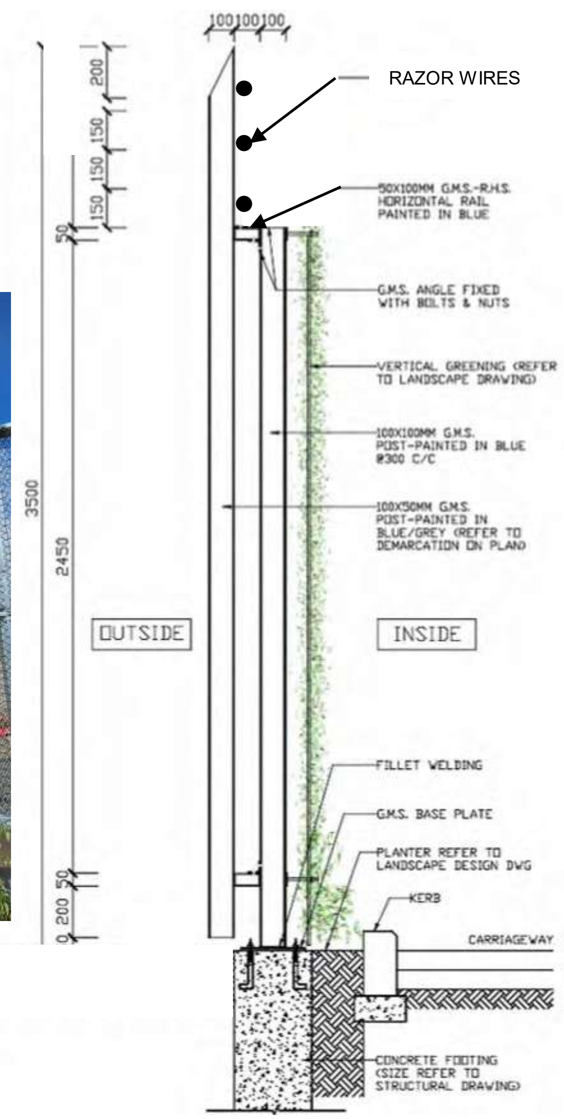
Typical Vertical Greening Zoomin Plan



Typical Vertical Greening Elevation



Typical Vertical Greening Section

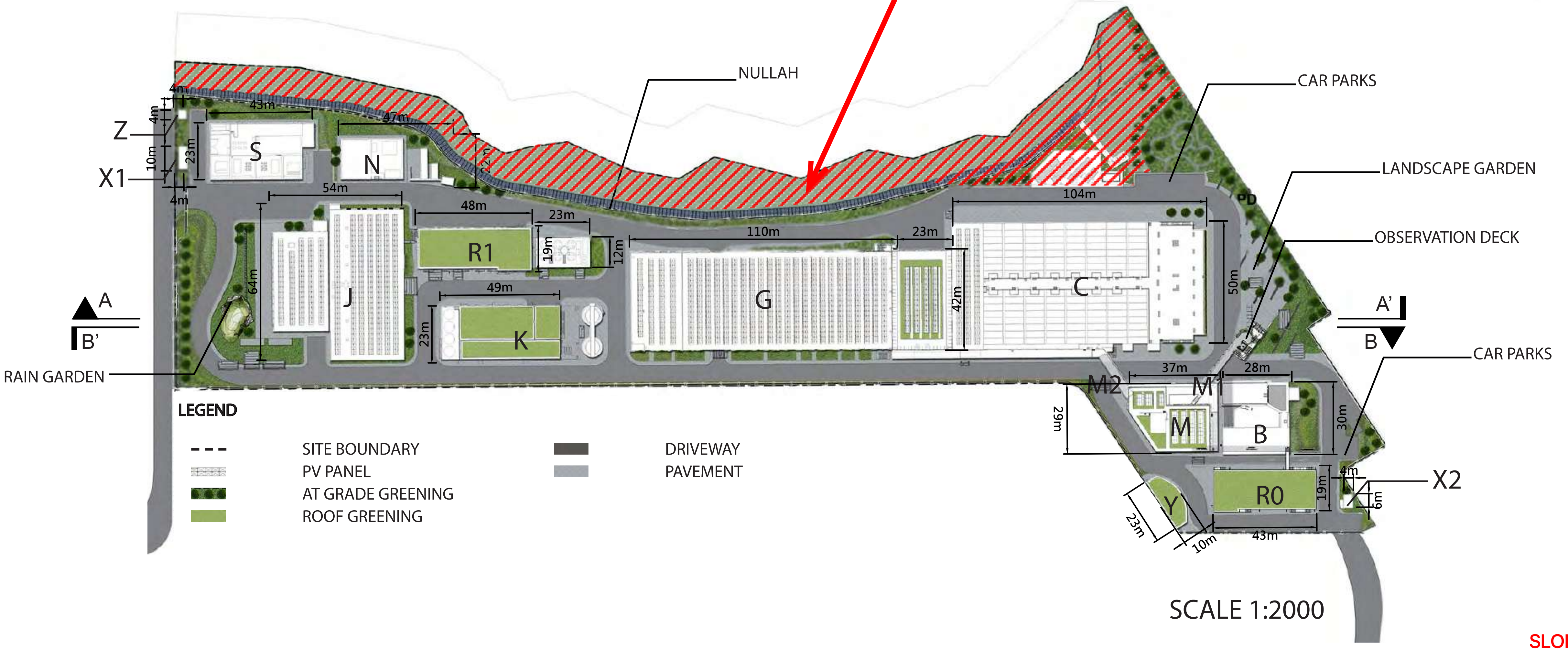


Appendix F – Hard Landscape Design

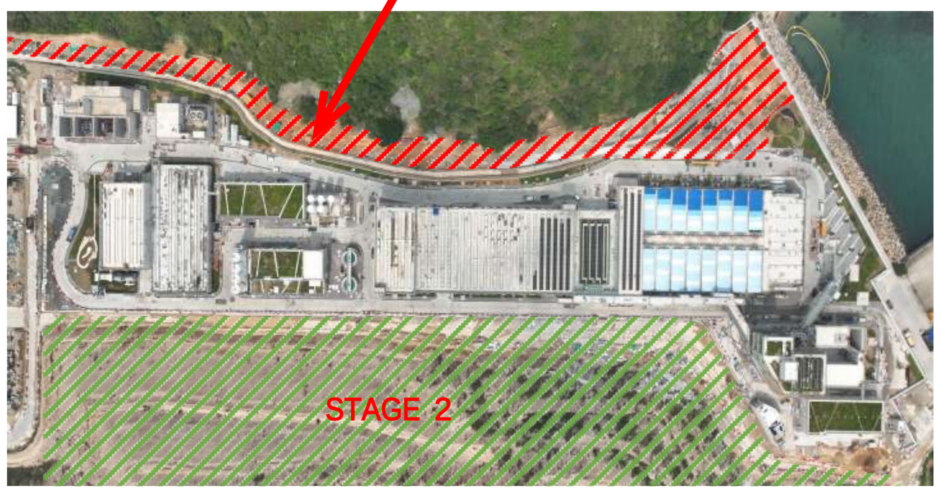
AS-BUILT

App F - Hard Landscape Design (Overview) REV. 01

SLOPE WORK TO BE SEPARATELY COMPLETED IN STAGE 2 WORKS



SLOPE WORK TO BE SEPARATELY COMPLETED IN STAGE 2 WORKS



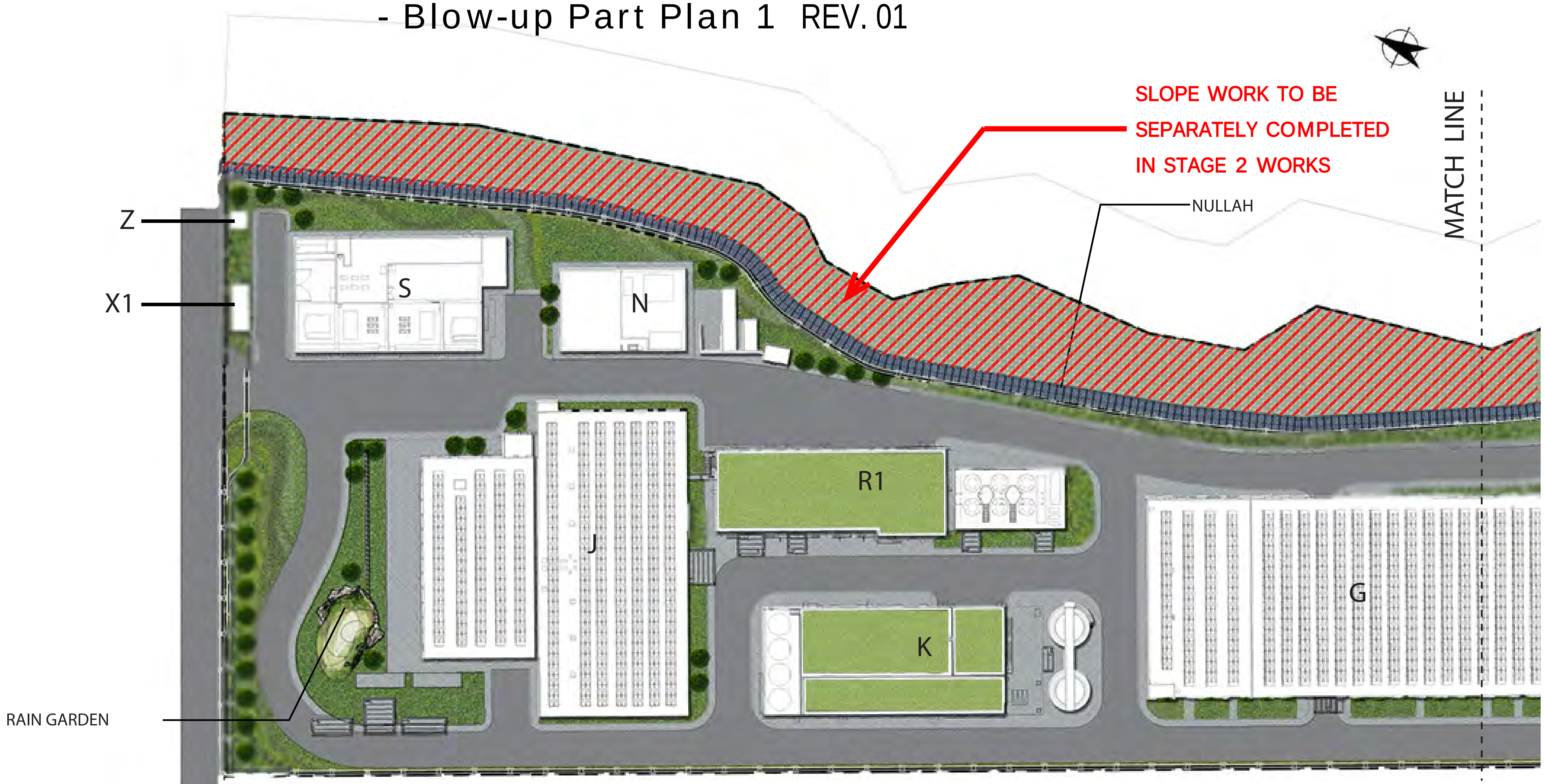
LEGEND

M - ADMINISTRATION BUILDING
M1- ELEVATED WALKWAY
V- INSPECTION CORRIDOR
B - COMBINED INTAKE & OUTFALL SHAFT
R0 - CHEMICAL BUILDING
C - ACTIDAFF
G - REVERSE OSMOSIS & ELECTRICAL BUILDING
K - POST-TREATMENT BUILDING
J - PRODUCT WATER STORAGE TANK AND ELECTRICAL BUILDING
R1 - ON-SITE CHLORINE GENERATION SYSTEM BUILDING AND CO^2 TANK AREA

N - MAIN ELECTRICAL & CHILLER PLANT BUILDING
S - TKO DESALINATION PLANT SUBSTATION
Z - MASTER METER ROOM
X1 - GUARD HOUSE A
X2 - GUARD HOUSE B
Y - WORKSHOP

AS-BUILT

Appendix F - Hard Landscape Design (Overview) - Blow-up Part Plan 1 REV. 01



LEGEND

M - ADMINISTRATION BUILDING
M1- ELEVATED WALKWAY
V- INSPECTION CORRIDOR
B - COMBINED INTAKE & OUTFALL SHAFT
R0 - CHEMICAL BUILDING
C - ACTIDAFF
G - REVERSE OSMOSIS & ELECTRICAL BUILDING
K - POST-TREATMENT BUILDING
J - PRODUCT WATER STORAGE TANK AND ELECTRICAL BUILDING
R1 - ON-SITE CHLORINE GENERATION SYSTEM BUILDING AND CO^2 TANK AREA
N - MAIN ELECTRICAL & CHILLER PLANT BUILDING
S - TKO DESALINATION PLANT SUBSTATION
Z - MASTER METER ROOM
X1 - GUARD HOUSE A
X2 - GUARD HOUSE B

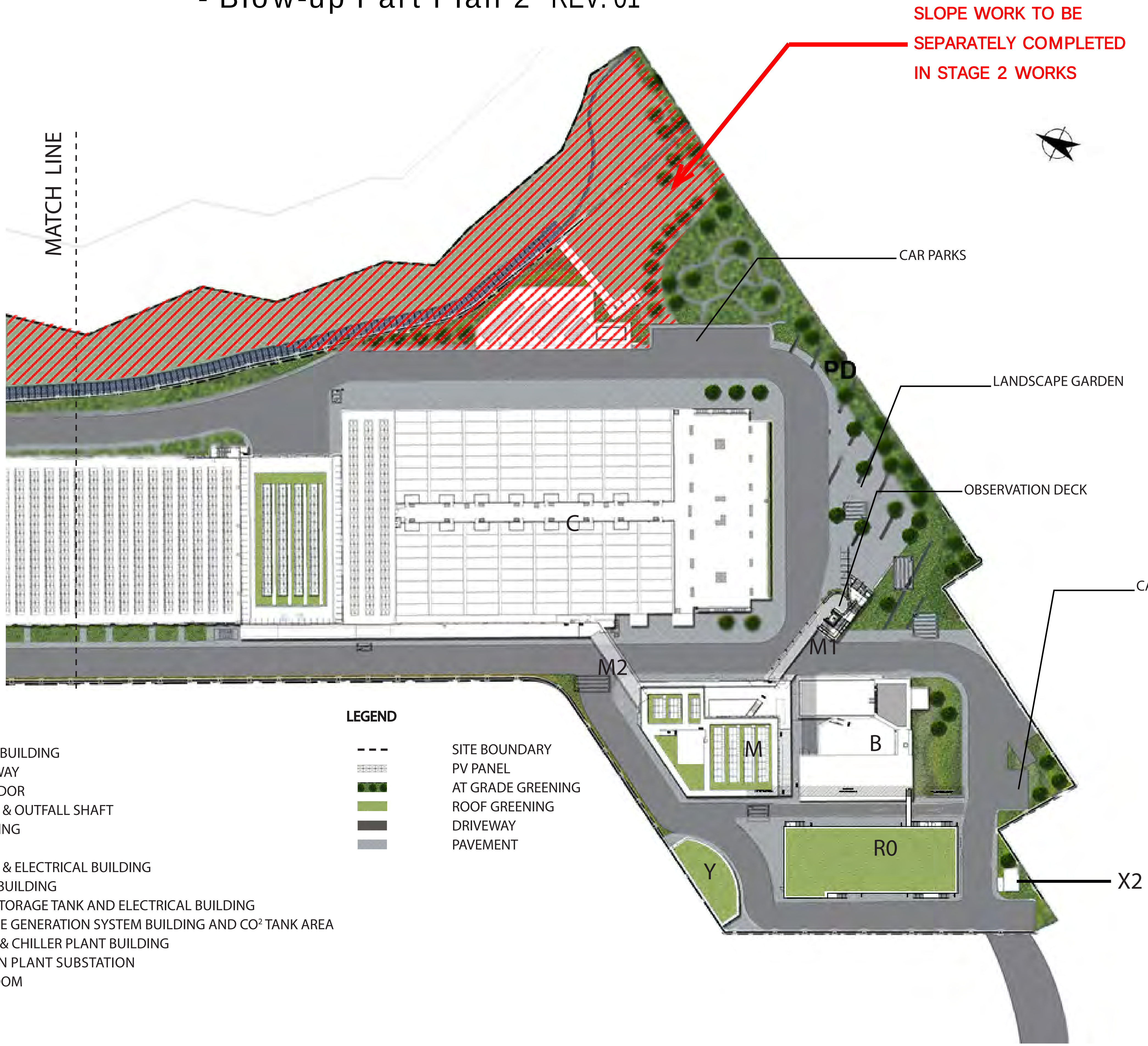
LEGEND

SITE BOUNDARY
PV PANEL
AT GRADE GREENING
ROOF GREENING
DRIVEWAY
PAVEMENT

SCALE 1:1000

Appendix F - Hard Landscape Design (Overview) - Blow-up Part Plan 2 REV. 01

AS-BUILT



LEGEND

M - ADMINISTRATION BUILDING
M1- ELEVATED WALKWAY
V- INSPECTION CORRIDOR
B - COMBINED INTAKE & OUTFALL SHAFT
R0 - CHEMICAL BUILDING
C - ACTIDAFF
G - REVERSE OSMOSIS & ELECTRICAL BUILDING
K - POST-TREATMENT BUILDING
J - PRODUCT WATER STORAGE TANK AND ELECTRICAL BUILDING
R1 - ON-SITE CHLORINE GENERATION SYSTEM BUILDING AND CO^2 TANK AREA
N - MAIN ELECTRICAL & CHILLER PLANT BUILDING
S - TKO DESALINATION PLANT SUBSTATION
Z - MASTER METER ROOM
X1 - GUARD HOUSE A
X2 - GUARD HOUSE B

LEGEND

SITE BOUNDARY
PV PANEL
AT GRADE GREENING
ROOF GREENING
DRIVEWAY
PAVEMENT

SCALE 1:1000

Appendix F - Hard Landscape Design (Administration Building)



ELEVATION 1 (SCALE 1:300)

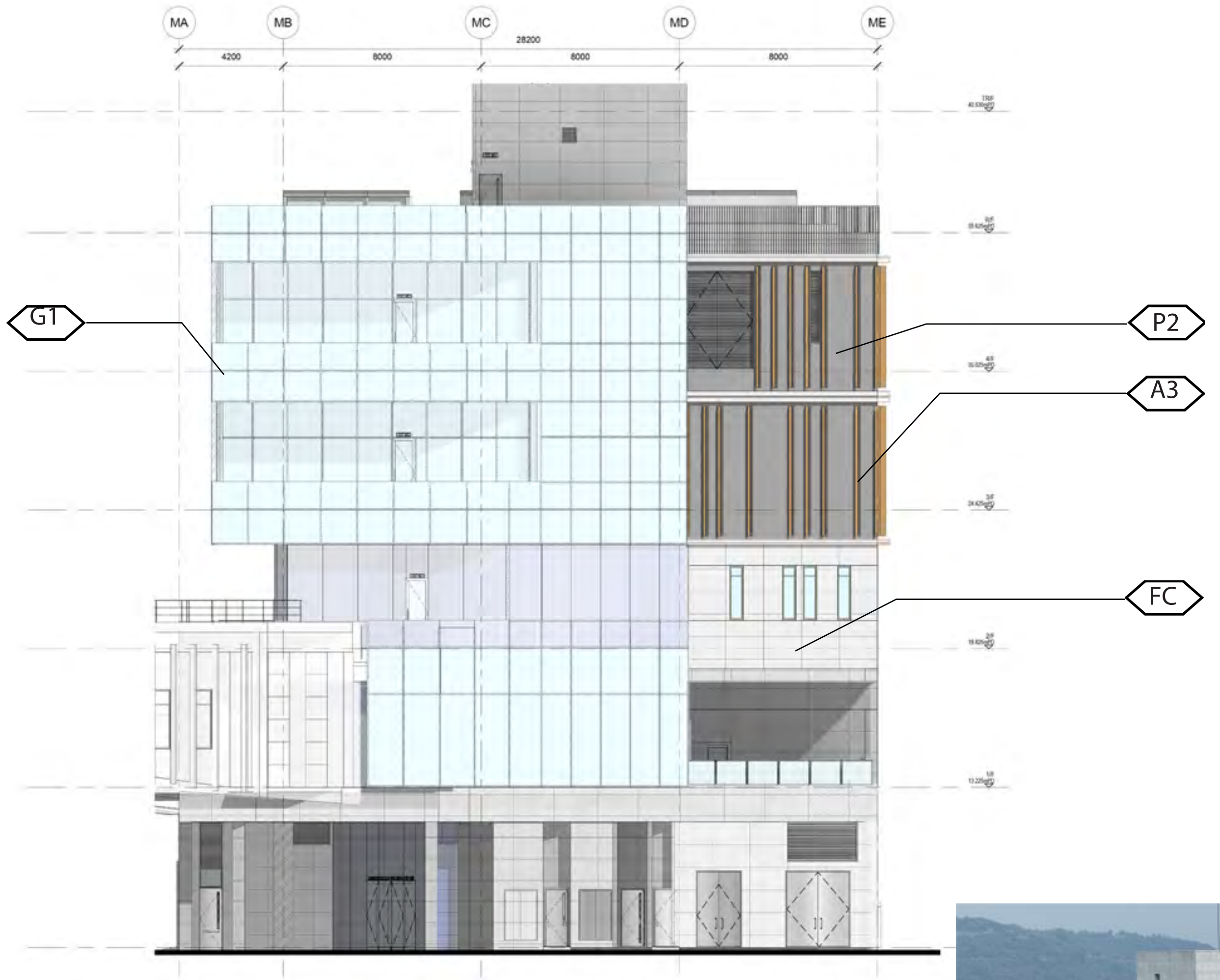
ELEVATION 2 (SCALE 1:300)

LEGEND

FC FAIRFACED CONCRETE
SS S.S. (BEAD BLASTED)
P1 PAINT IN GRAY
A1 ALUMINIUM (BRIGHT COPPER)
G1 CURTAIN WALL
P2 TEXTURED PAINT IN GRAY
A2 ALUMINIUM (BLUE)
G2 GLASS WALL
D1 DFMA CONCRETE PAN
GRAIN PATTERN)
(LIGHT GRAY, BRUSHED)
A4 ALUMINIUM (WHITE)
G4 GLASS WALL W/. REFLECTIVE COATING
D3 DFMA CONCRETE PANEL (DARK GRAY, RIBBED)
A5 ALUMINIUM (GREY)

M - 04 - ELEVATION

Appendix F - Hard Landscape Design (Administration Building)



ELEVATION 3 (SCALE 1:300)

ELEVATION 4 (SCALE 1:300)

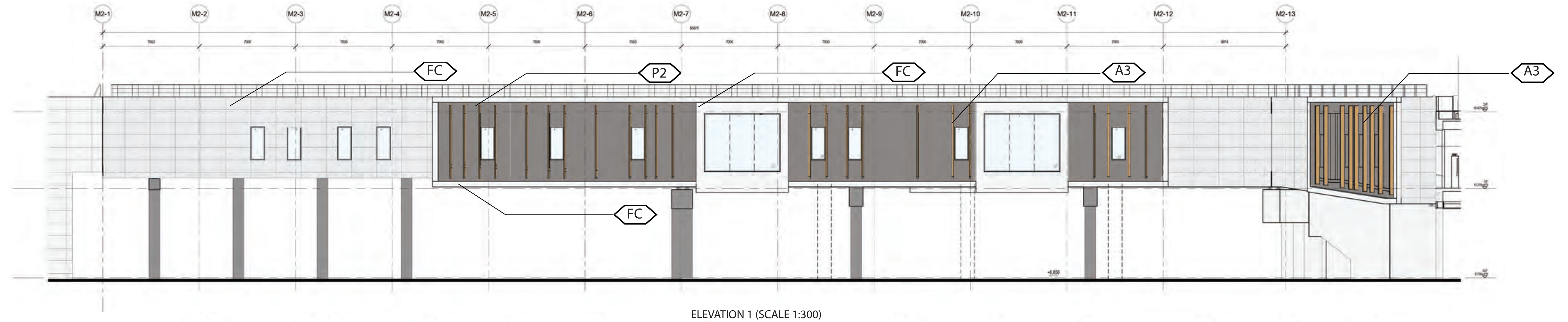
LEGEND

FC FAIRFACED CONCRETE
SS S.S. (BEAD BLASTED)
P1 PAINT IN GRAY
A1 ALUMINIUM (BRIGHT COPPER)
G1 CURTAIN WALL
P2 TEXTURED PAINT IN GRAY
A2 ALUMINIUM (BLUE)
G2 GLASS WALL
D1 DFMA CONCRETE PA
D GRAIN PATTERN)
EL (LIGHT GRAY, BRUSHED)
A4 ALUMINIUM (WHITE)
G4 GLASS WALL W/. REFLECTIVE COATING
D3 DFMA CONCRETE PANEL (DARK GRAY, RIBBED)
A5 ALUMINIUM (GREY)

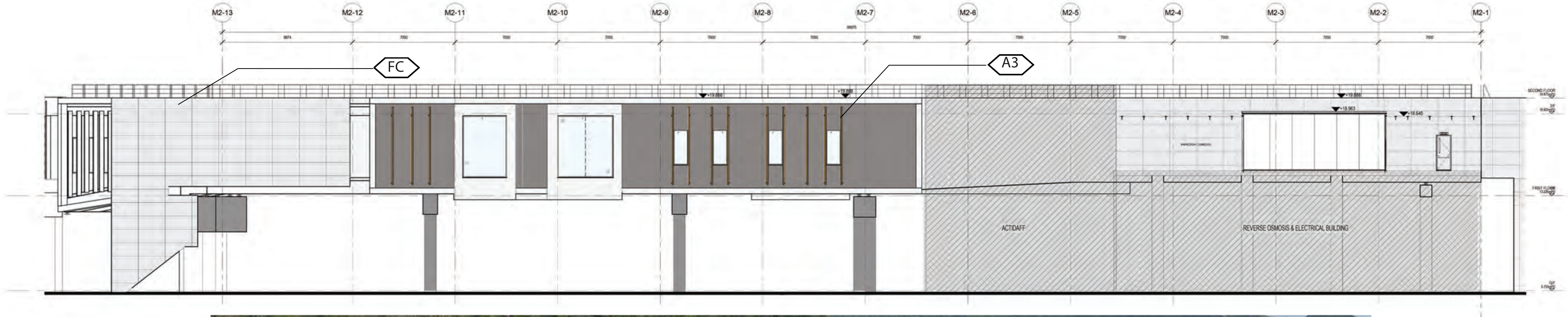
M-05 - ELEVATION

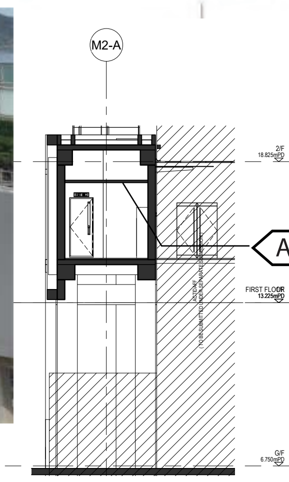
Appendix F - Hard Landscape Design (Inspection Corridor)

AS-BUILT



ELEVATION 1 (SCALE 1:300)





SECTION A-A

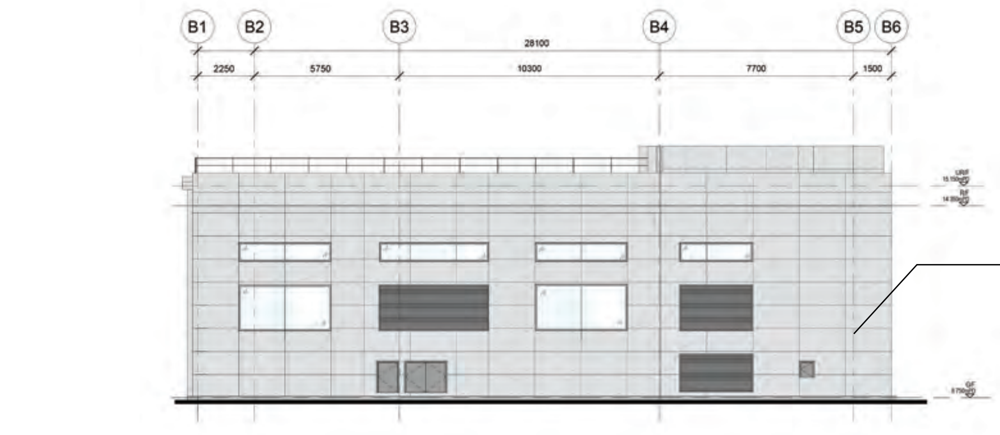
SECTION C-C (SCALE 1:300)

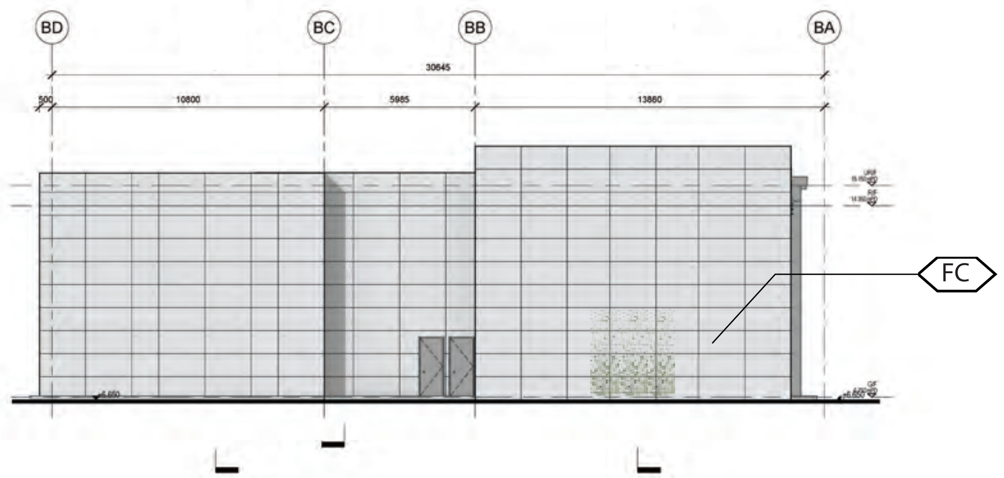
LEGEND

FC FAIRFACED CONCRETE
SS S.S. (BEAD BLASTED)
P1 PAINT IN GRAY
A1 A
G1 C
P2 T
UM (WHITE)
LL W/. REFLECTIVE COATING
NCRETE PANEL (DARK GRAY, RIBBED)
A5 ALUMINIUM (GREY)

M2-03 - ELEVATION AND SECTION

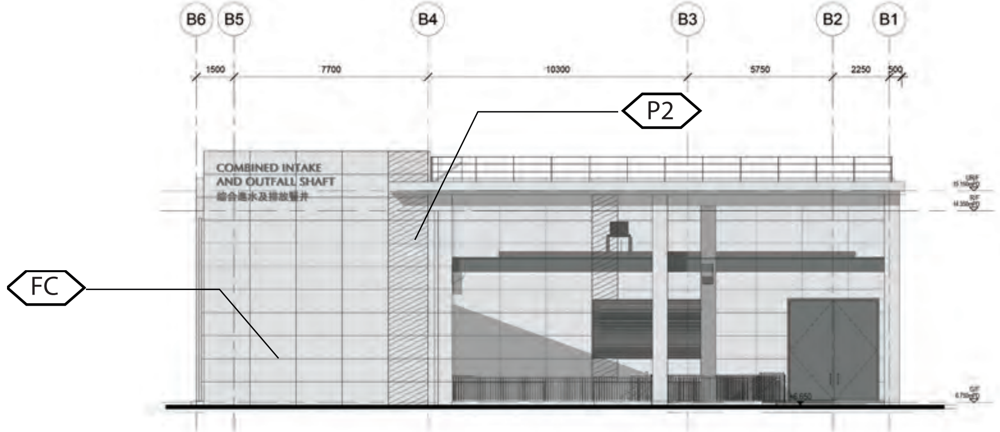
Appendix F - Hard Landscape Design (Combined Intake & Outfall Shaft)

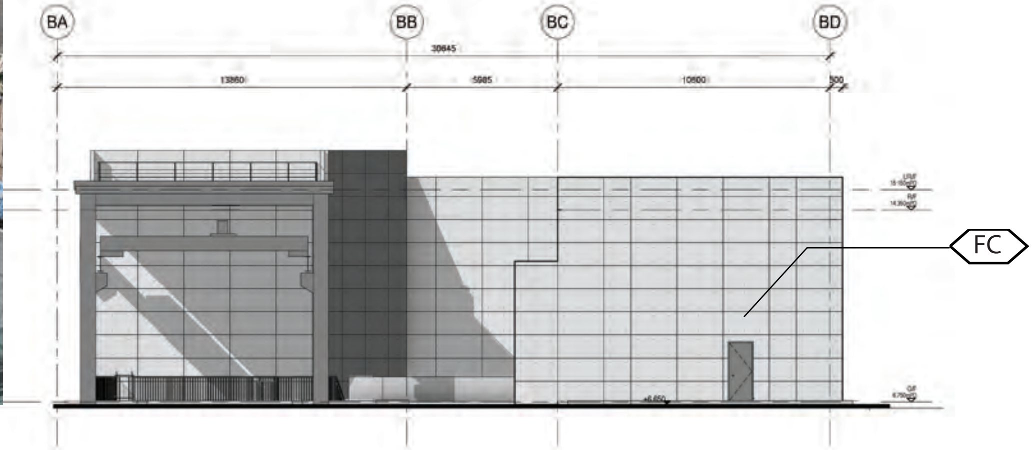




ELEVATION 1 (SCALE 1:300)

ELEVATION 2 (SCALE 1:300)





ELEVATION 3 (SCALE 1:300)

ELEVATION 4 (SCALE 1:300)

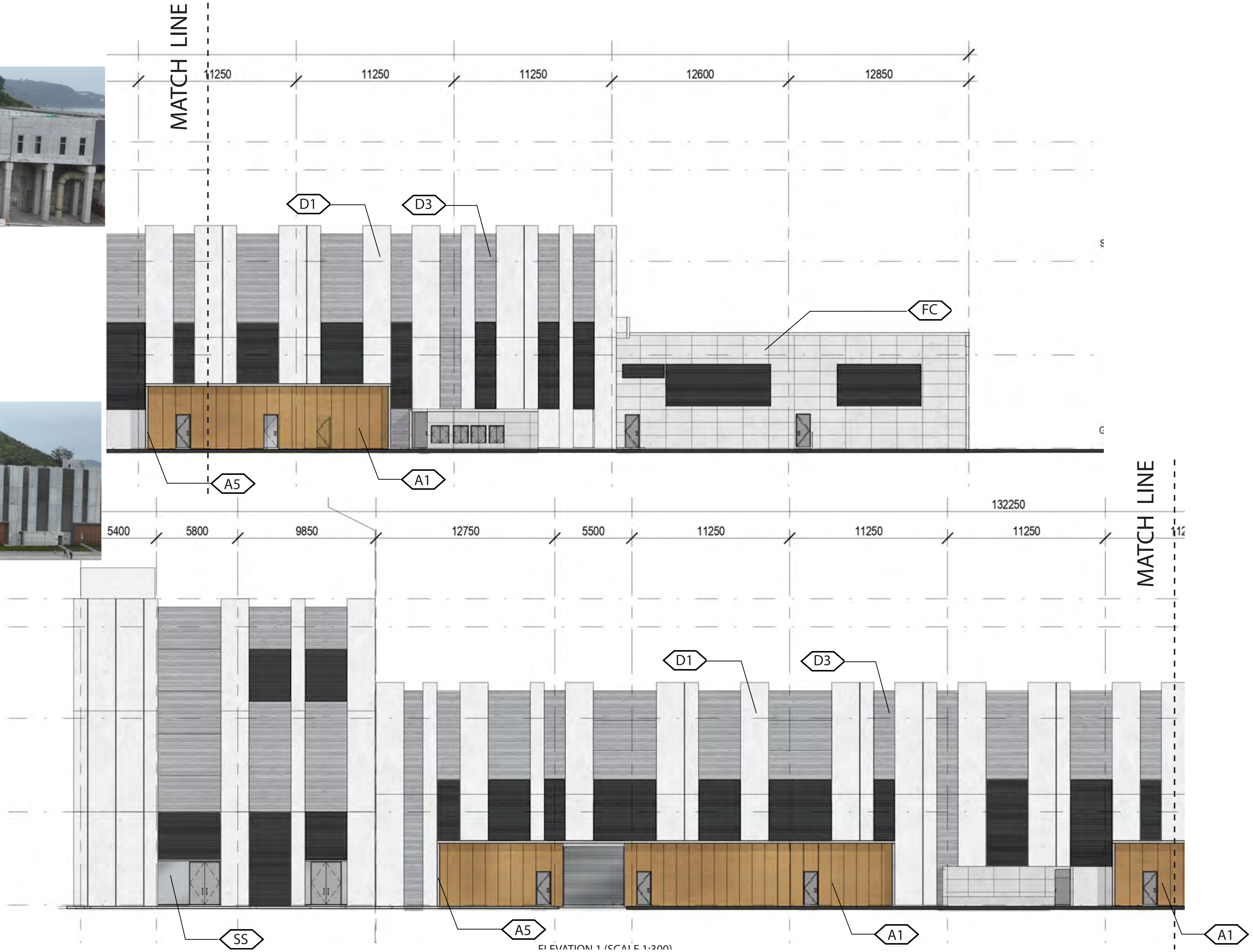
LEGEND

FC FAIRFACED CONCRETE	A1 ALUMINIUM (BRIGHT COPPER)	A2 ALUMINIUM (BLUE)	A3 ALUMINIUM (W/. WOOD GRAIN PATTERN)	A4 ALUMINIUM (WHITE)	A5 ALUMINIUM (GREY)
SS S.S. (BEAD BLASTED)	G1 CURTAIN WALL	G2 GLASS WALL	G3 GLASS BLOCK	G4 GLASS WALL W/. REFLECTIVE COATING	
P1 PAINT IN GRAY	P2 TEXTURED PAINT IN GRAY	D1 DFMA CONCRETE PANEL (LIGHT GRAY, PLAIN)	D2 DFMA CONCRETE PANEL (LIGHT GRAY, BRUSHED)	D3 DFMA CONCRETE PANEL (DARK GRAY, RIBBED)	

B-03 - ELEVATION

Appendix F - Hard Landscape Design (Reverse Osmosis & Electrical Building)

AS-BUILT



LEGEND

FC FAIRFACED CONCRETE	A1 ALUMINIUM (BRIGHT COPPER)	A2 ALUMINIUM (BLUE)	A3 ALUMINIUM (W/. WOOD GRAIN PATTERN)	A4 ALUMINIUM (WHITE)	A5 ALUMINIUM (GREY)
SS S.S. (BEAD BLASTED)	G1 CURTAIN WALL	G2 GLASS WALL	G3 GLASS BLOCK	G4 GLASS WALL W/. REFLECTIVE COATING	
P1 PAINT IN GRAY	P2 TEXTURED PAINT IN GRAY	D1 DFMA CONCRETE PANEL (LIGHT GRAY, PLAIN)	D2 DFMA CONCRETE PANEL (LIGHT GRAY, BRUSHED)	D3 DFMA CONCRETE PANEL (DARK GRAY, RIBBED)	

G-08 - ELEVATION

Appendix F - Hard Landscape Design
(Reverse Osmosis & Electrical Building)

AS-BUILT

ELEVATION 2 (SCALE 1:300)

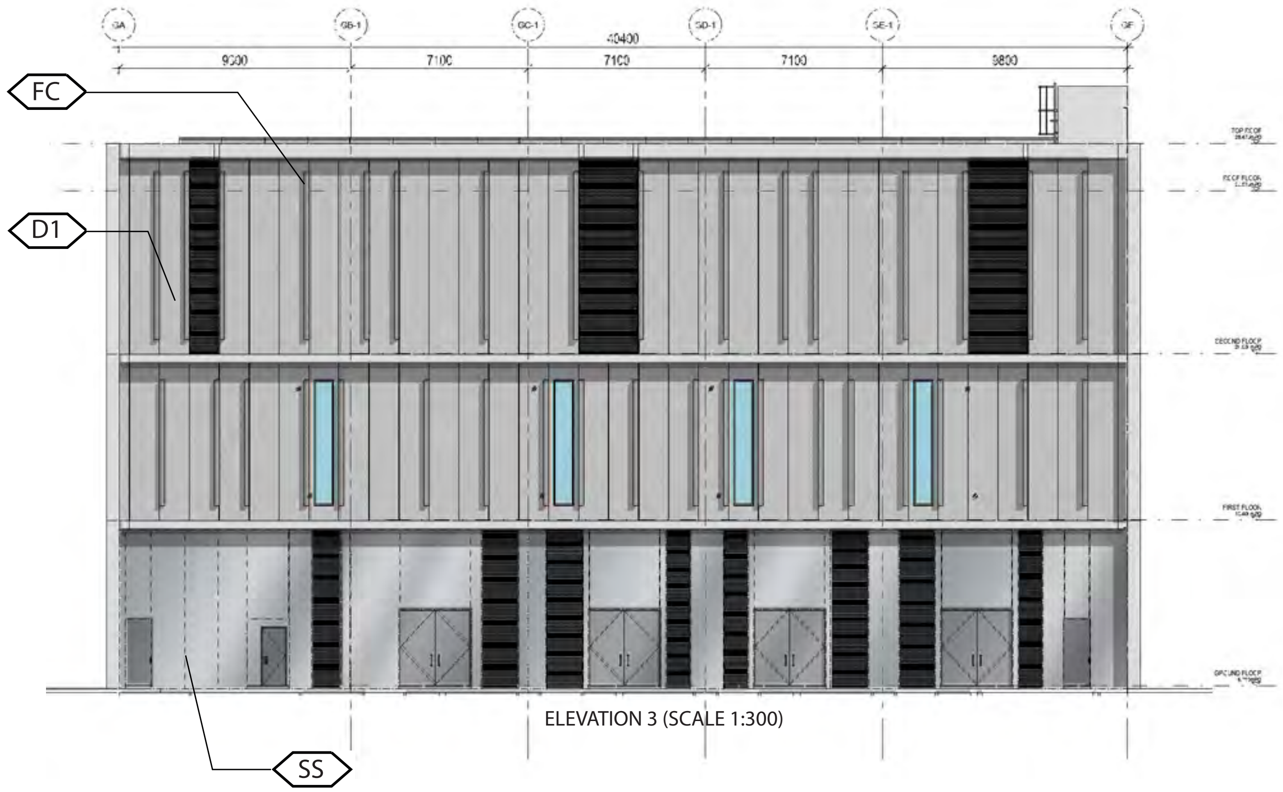
LEGEND

FC FAIRFACED CONCRETE	A1 ALUMINIUM (BRIGHT COPPER)	A2 ALUMINIUM (BLUE)	A3 ALUMINIUM (W/. WOOD GRAIN PATTERN)	A4 ALUMINIUM (WHITE)	A5 ALUMINIUM (GREY)
SS S.S. (BEAD BLASTED)	G1 CURTAIN WALL	G2 GLASS WALL	G3 GLASS BLOCK	G4 GLASS WALL W/. REFLECTIVE COATING	
P1 PAINT IN GRAY	P2 TEXTURED PAINT IN GRAY	D1 DFMA CONCRETE PANEL (LIGHT GRAY, PLAIN)	D2 DFMA CONCRETE PANEL (LIGHT GRAY, BRUSHED)	D3 DFMA CONCRETE PANEL (DARK GRAY, RIBBED)	

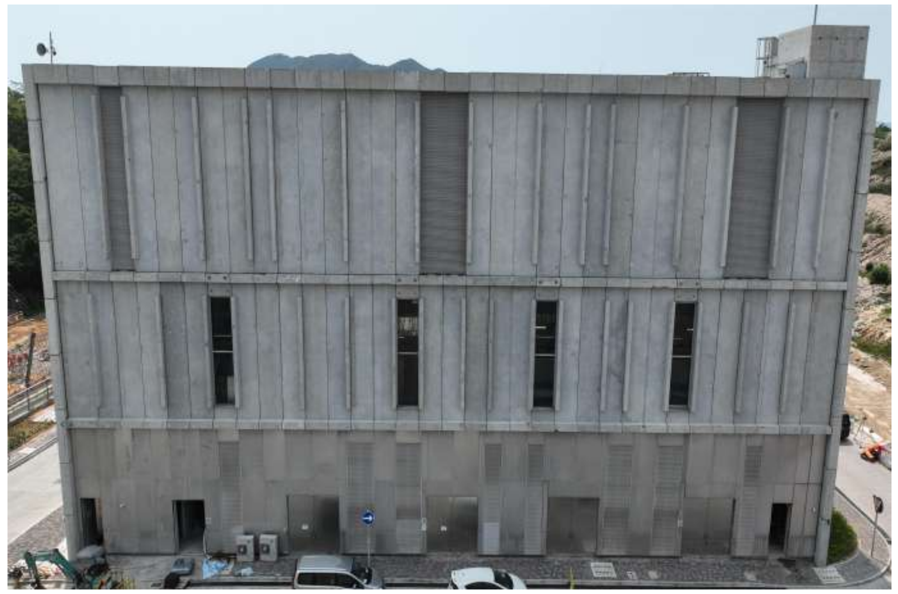
G-09- ELEVATION

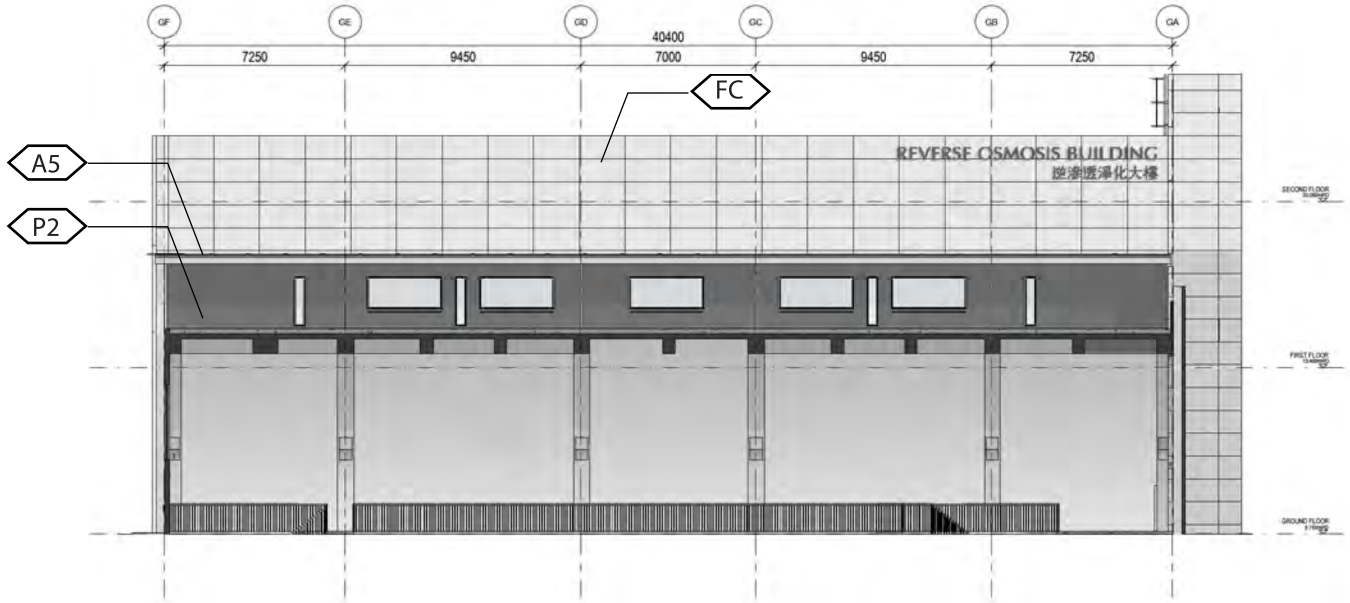
Appendix F - Hard Landscape Design (Reverse Osmosis & Electrical Building)

AS-BUILT



ELEVATION 3 (SCALE 1:300)





ELEVATION 4 (SCALE 1:300)

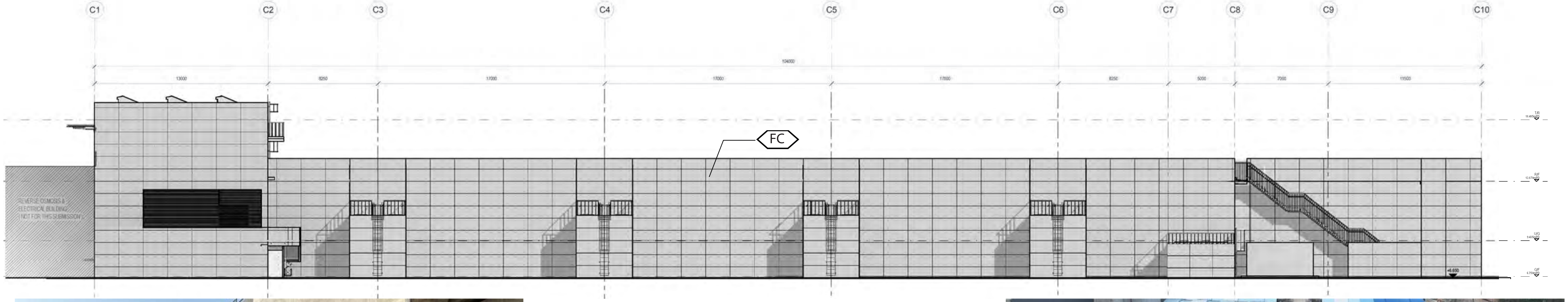
LEGEND

FC FAIRFACED CONCRETE	A1 ALUMINIUM (BRIGHT COPPER)	A2 ALUMINIUM (BLUE)	A3 ALUMINIUM (W/. WOOD GRAIN PATTERN)	A4 ALUMINIUM (WHITE)	A5 ALUMINIUM (GREY)
SS S.S. (BEAD BLASTED)	G1 CURTAIN WALL	G2 GLASS WALL	G3 GLASS BLOCK	G4 GLASS WALL W/. REFLECTIVE COATING	
P1 PAINT IN GRAY	P2 TEXTURED PAINT IN GRAY	D1 DFMA CONCRETE PANEL (LIGHT GRAY, PLAIN)	D2 DFMA CONCRETE PANEL (LIGHT GRAY, BRUSHED)	D3 DFMA CONCRETE PANEL (DARK GRAY, RIBBED)	

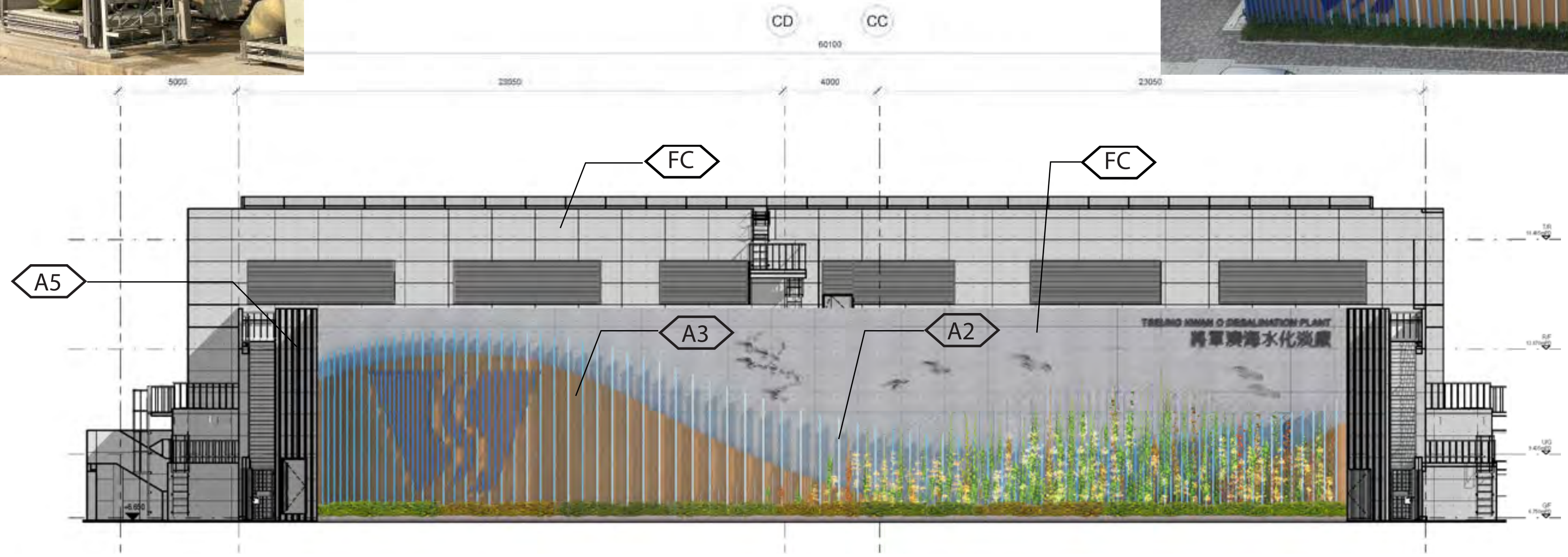
G-10 - ELEVATION

Appendix F - Hard Landscape Design (Actidaff)

AS-BUILT



ELEVATION 1 (SCALE 1:300)



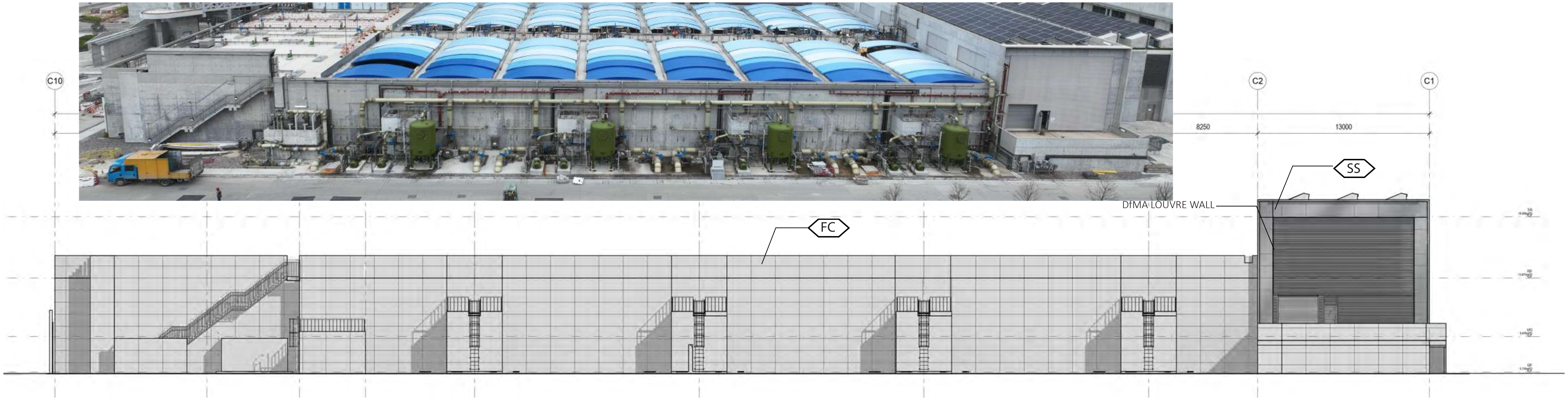
ELEVATION 2 (SCALE 1:300)

LEGEND

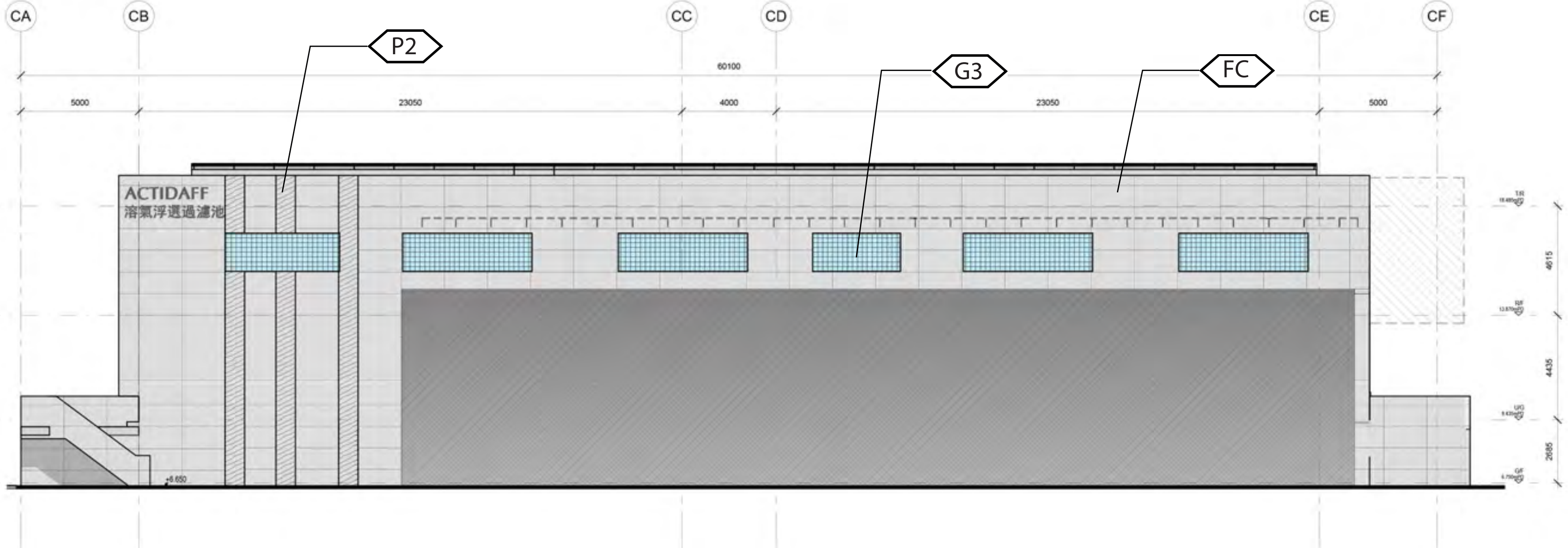
- FC FAIRFACED CONCRETE
- SS S.S. (BEAD BLASTED)
- P1 PAINT IN GRAY
- A1 ALUMINIUM (BRIGHT COPPER)
- G1 CURTAIN WALL
- P2 TEXTURED PAINT IN GRAY
- A2 ALUMINIUM (BLUE)
- G2 GLASS WALL
- D1 DFMA CONCRETE PANEL (LIGHT GRAY, PLAIN)
- A3 ALUMINIUM (W/. WOOD GRAIN PATTERN)
- G3 GLASS BLOCK
- D2 DFMA CONCRETE PANEL (LIGHT GRAY, BRUSHED)
- A4 ALUMINIUM (WHITE)
- G4 GLASS WALL W/. REFLECTIVE COATING
- D3 DFMA CONCRETE PANEL (DARK GRAY, RIBBED)
- A5 ALUMINIUM (GREY)

Appendix F - Hard Landscape Design (Actidaff)

AS-BUILT



ELEVATION 3 (SCALE 1:300)



ELEVATION 4 (SCALE 1:300)

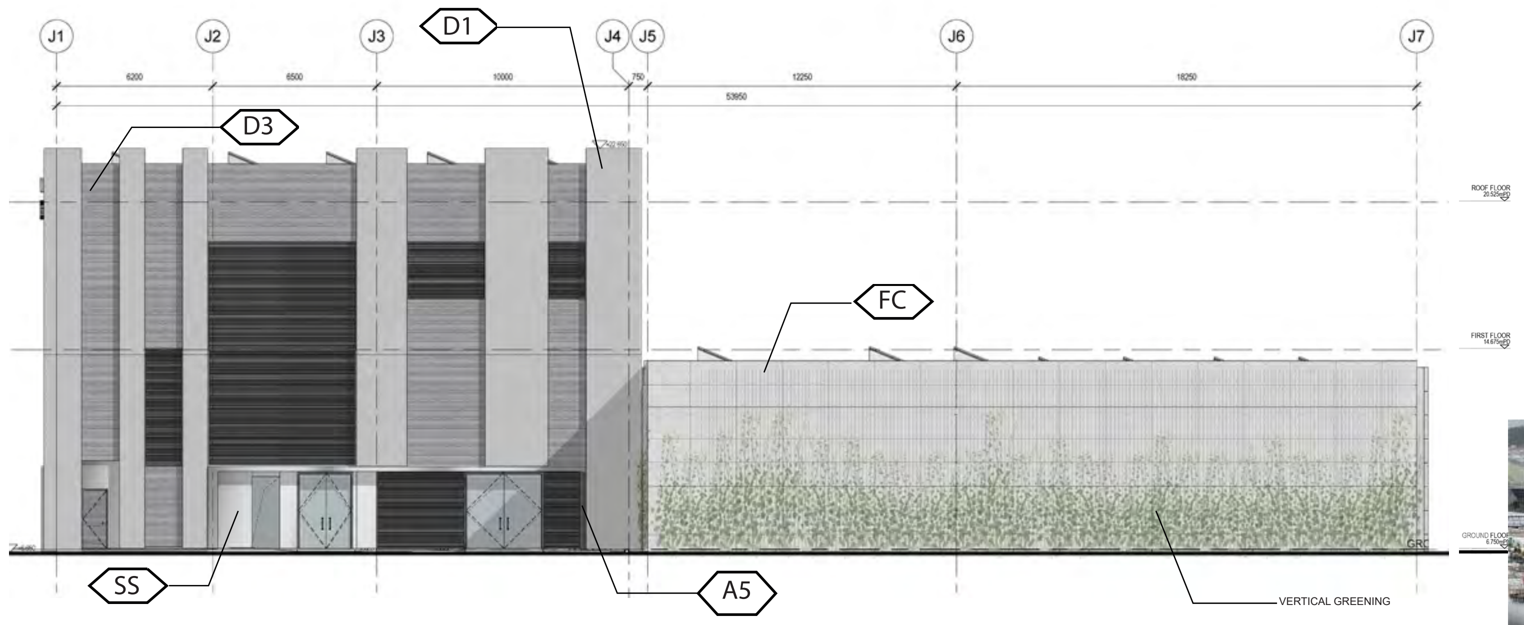
LEGEND

FC FAIRFACED CONCRETE	A1 ALUMINIUM (BRIGHT COPPER)	A2 ALUMINIUM (BLUE)	A3 ALUMINIUM (W/. WOOD GRAIN PATTERN)	A4 ALUMINIUM (WHITE)	A5 ALUMINIUM (GREY)
SS S.S. (BEAD BLASTED)	G1 CURTAIN WALL	G2 GLASS WALL	G3 GLASS BLOCK	G4 GLASS WALL W/. REFLECTIVE COATING	
P1 PAINT IN GRAY	P2 TEXTURED PAINT IN GRAY	D1 DFMA CONCRETE PANEL (LIGHT GRAY, PLAIN)	D2 DFMA CONCRETE PANEL (LIGHT GRAY, BRUSHED)	D3 DFMA CONCRETE PANEL (DARK GRAY, RIBBED)	

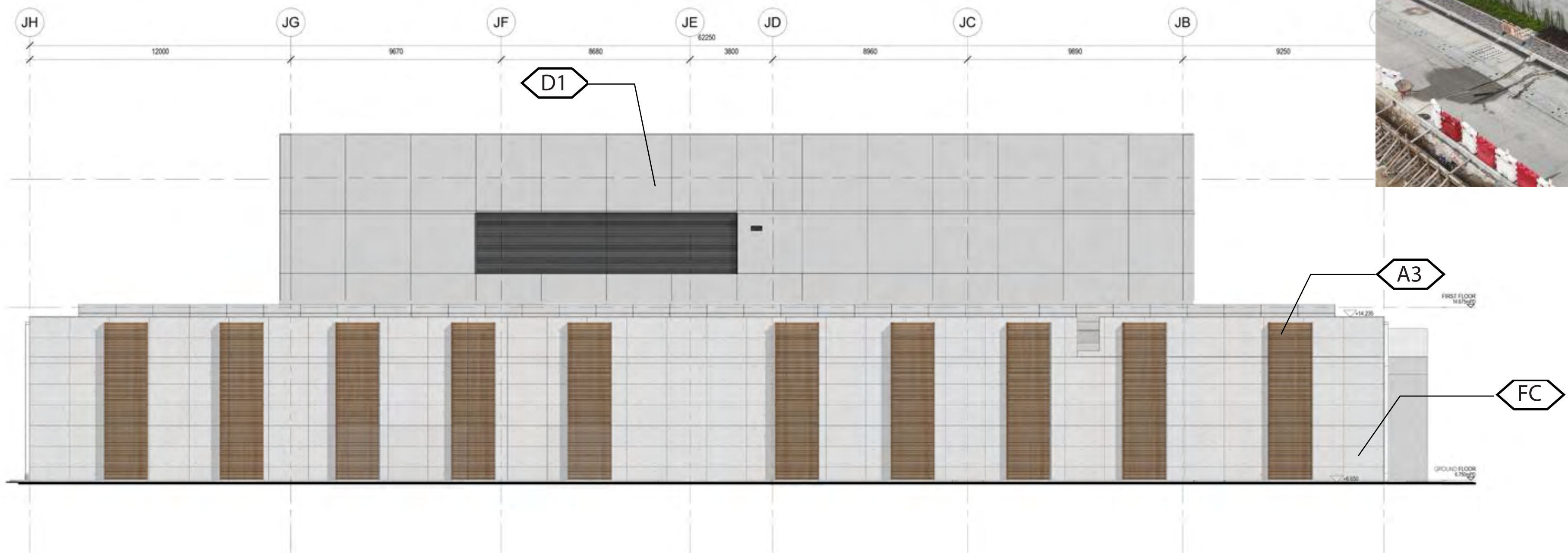
C - 06 - ELEVATION

AS-BUILT

Appendix F - Hard Landscape Design
(Product Water Storage Tank and Electrical Building)



ELEVATION 1 (SCALE 1:300)



ELEVATION 2 (SCALE 1:300)

LEGEND

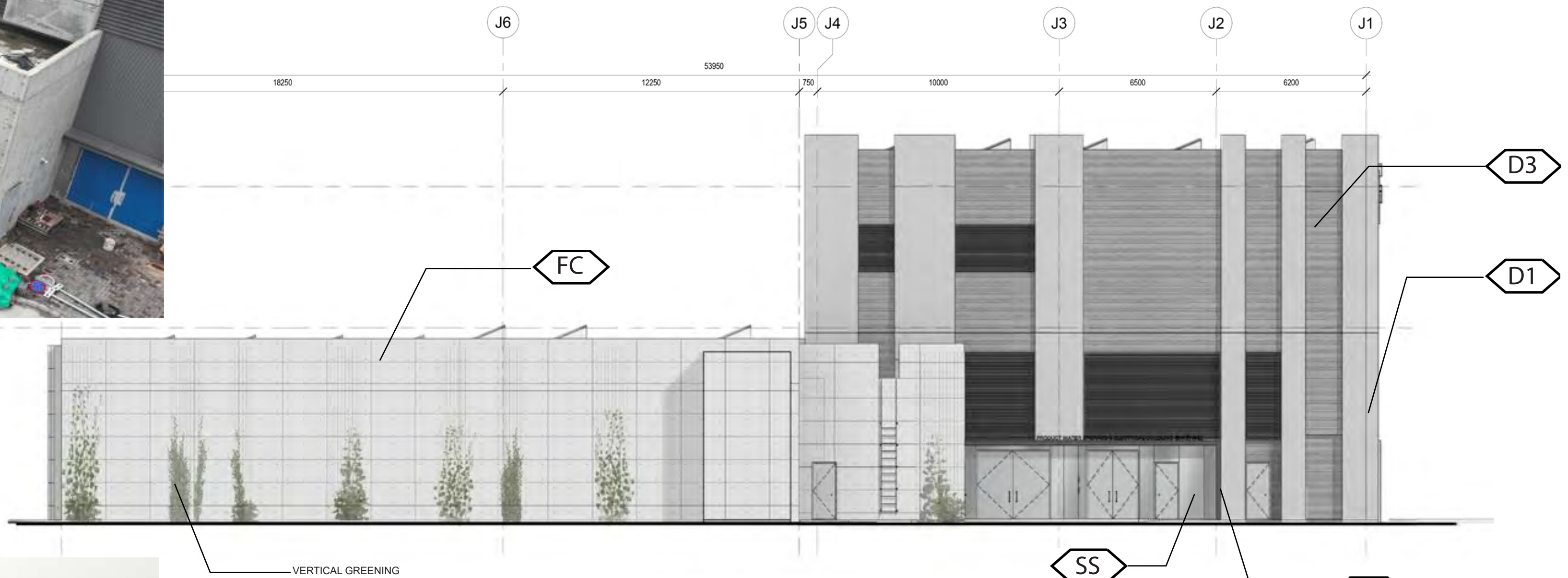
FC FAIRFACED CONCRETE	A1 ALUMINIUM (BRIGHT COPPER)	A2 ALUMINIUM (BLUE)	A3 ALUMINIUM (W/. WOOD GRAIN PATTERN)	A4 ALUMINIUM (WHITE)	A5 ALUMINIUM (GREY)
SS S.S. (BEAD BLASTED)	G1 CURTAIN WALL	G2 GLASS WALL	G3 GLASS BLOCK	G4 GLASS WALL W/. REFLECTIVE COATING	
P1 PAINT IN GRAY	P2 TEXTURED PAINT IN GRAY	D1 DFMA CONCRETE PANEL (LIGHT GRAY, PLAIN)	D2 DFMA CONCRETE PANEL (LIGHT GRAY, BRUSHED)	D3 DFMA CONCRETE PANEL (DARK GRAY, RIBBED)	

J - 02 - ELEVATION

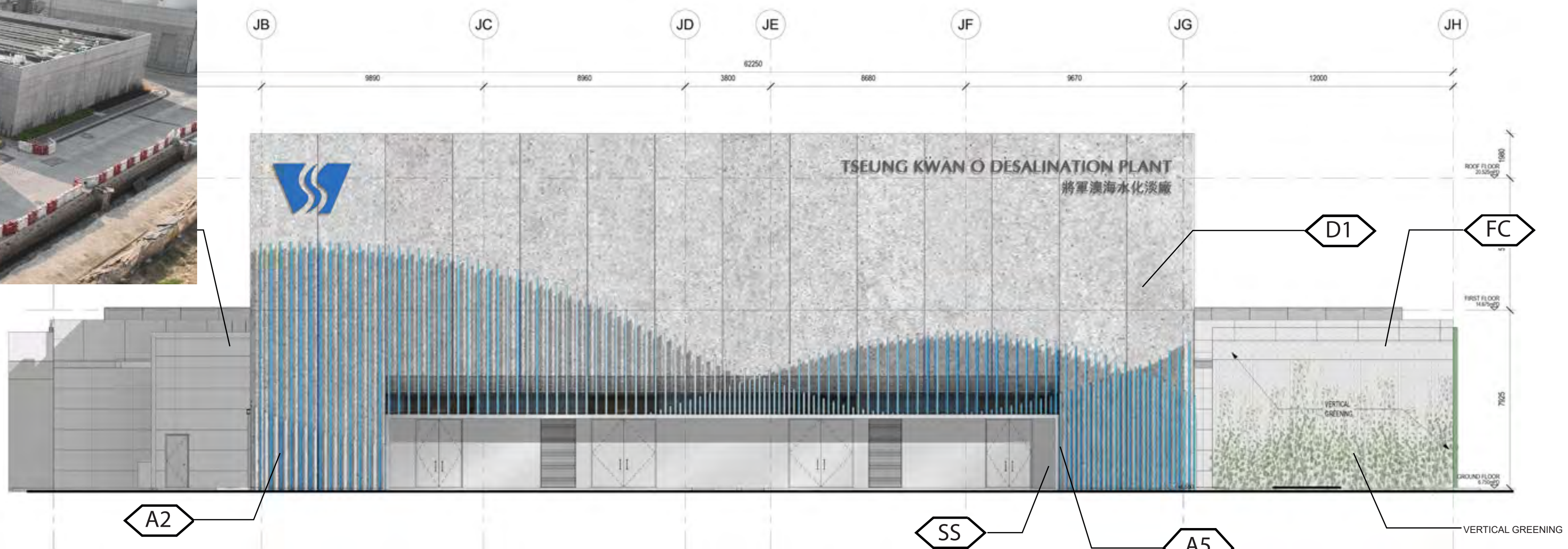
Appendix F - Hard Landscape Design
(Product Water Storage Tank and Electrical Building)

AS-BUILT

acciona JEC AJC JOINT VENTURE



ELEVATION 3 (SCALE 1:300)



ELEVATION 4 (SCALE 1:300)

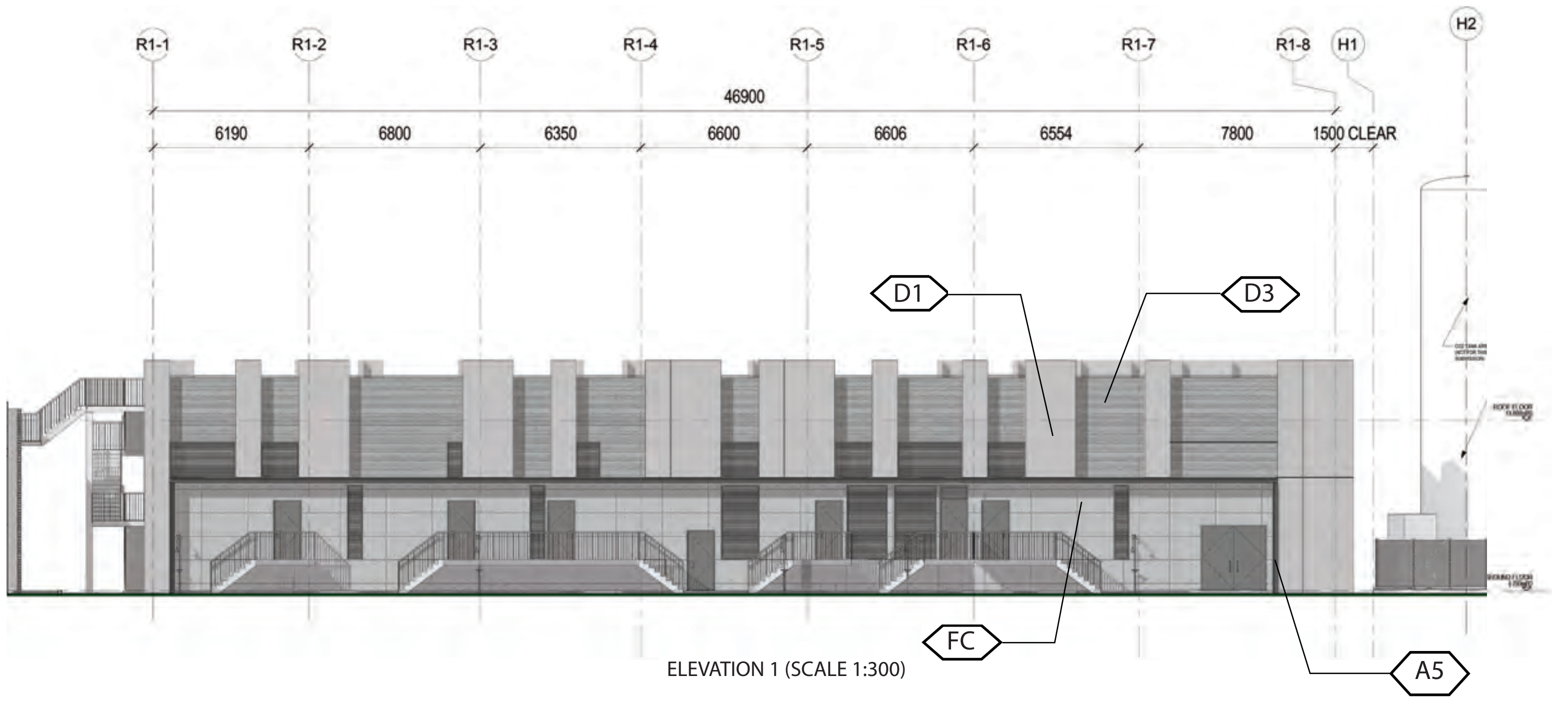
LEGEND

FC FAIRFACED CONCRETE	A1 ALUMINIUM (BRIGHT COPPER)	A2 ALUMINIUM (BLUE)	A3 ALUMINIUM (W/. WOOD GRAIN PATTERN)	A4 ALUMINIUM (WHITE)	A5 ALUMINIUM (GREY)
SS S.S. (BEAD BLASTED)	G1 CURTAIN WALL	G2 GLASS WALL	G3 GLASS BLOCK	G4 GLASS WALL W/. REFLECTIVE COATING	
P1 PAINT IN GRAY	P2 TEXTURED PAINT IN GRAY	D1 DFMA CONCRETE PANEL (LIGHT GRAY, PLAIN)	D2 DFMA CONCRETE PANEL (LIGHT GRAY, BRUSHED)	D3 DFMA CONCRETE PANEL (DARK GRAY, RIBBED)	

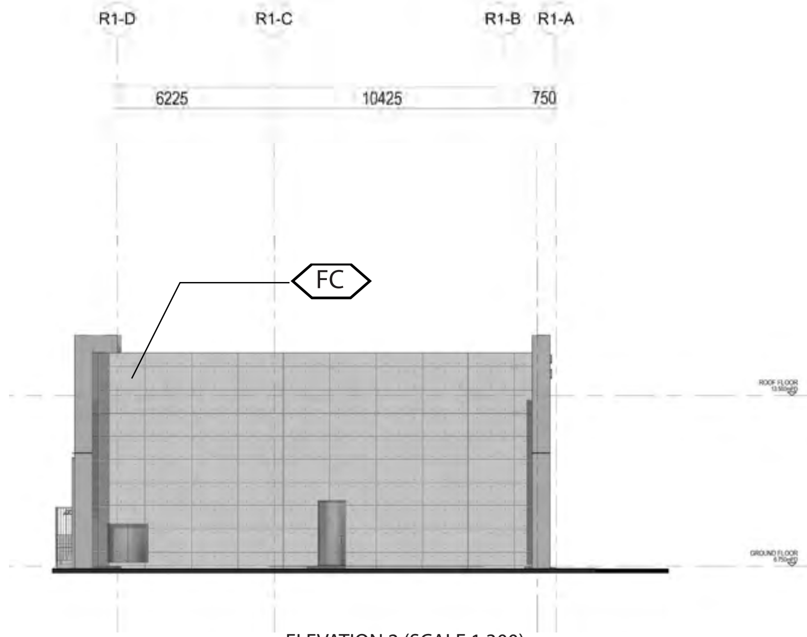
J - 03 - ELEVATION

Appendix F - Hard Landscape Design
(On-Site Chlorine Generation System Building)

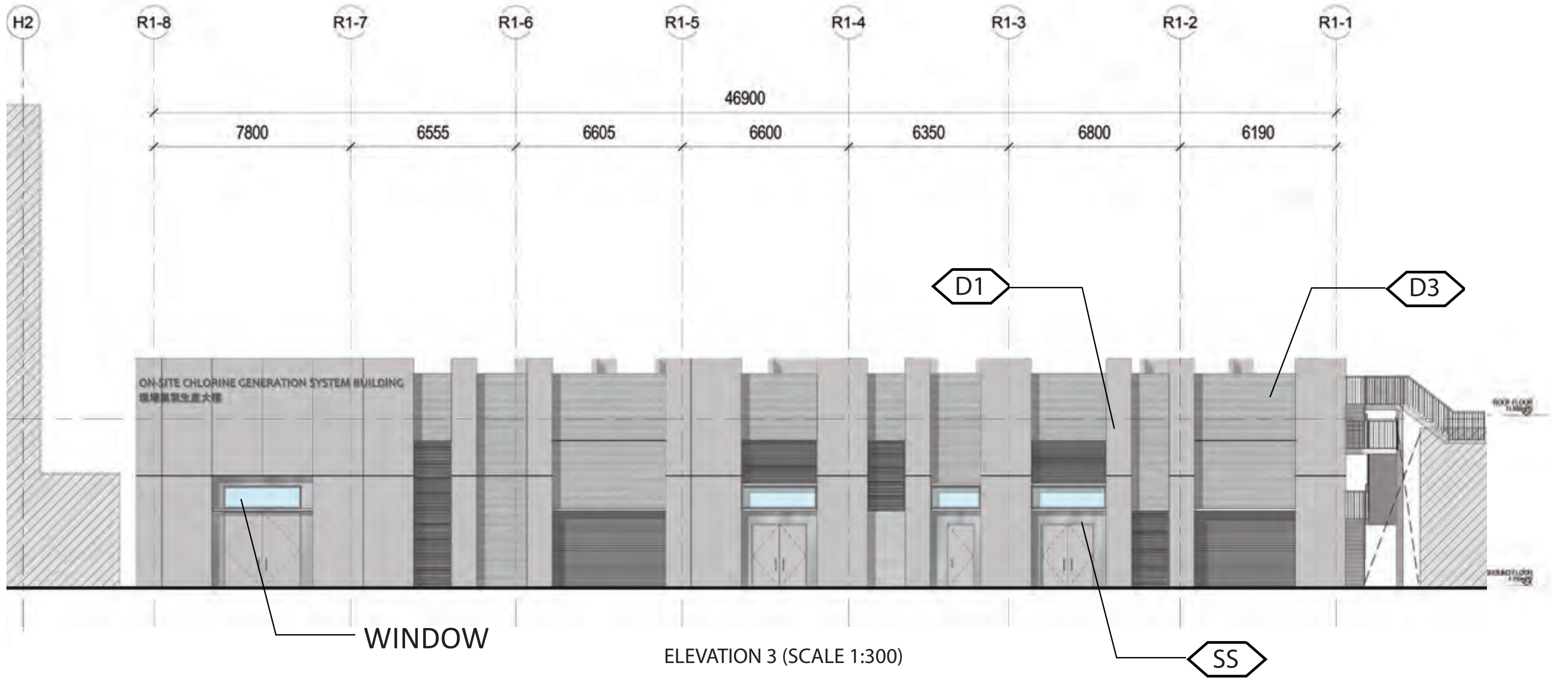
AS-BUILT



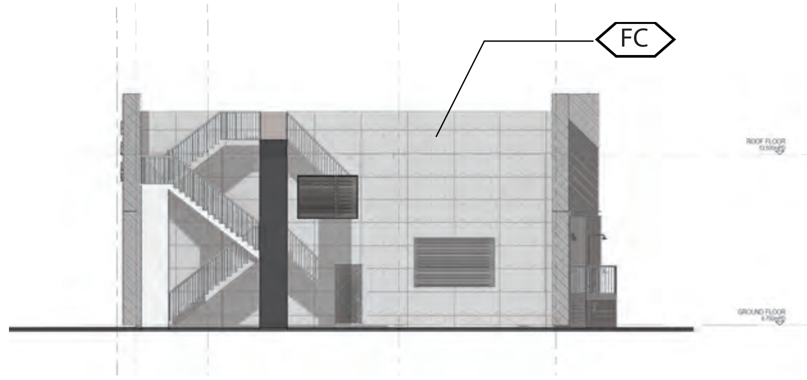
ELEVATION 1 (SCALE 1:300)



ELEVATION 2 (SCALE 1:300)



ELEVATION 3 (SCALE 1:300)



ELEVATION 4 (SCALE 1:300)

LEGEND

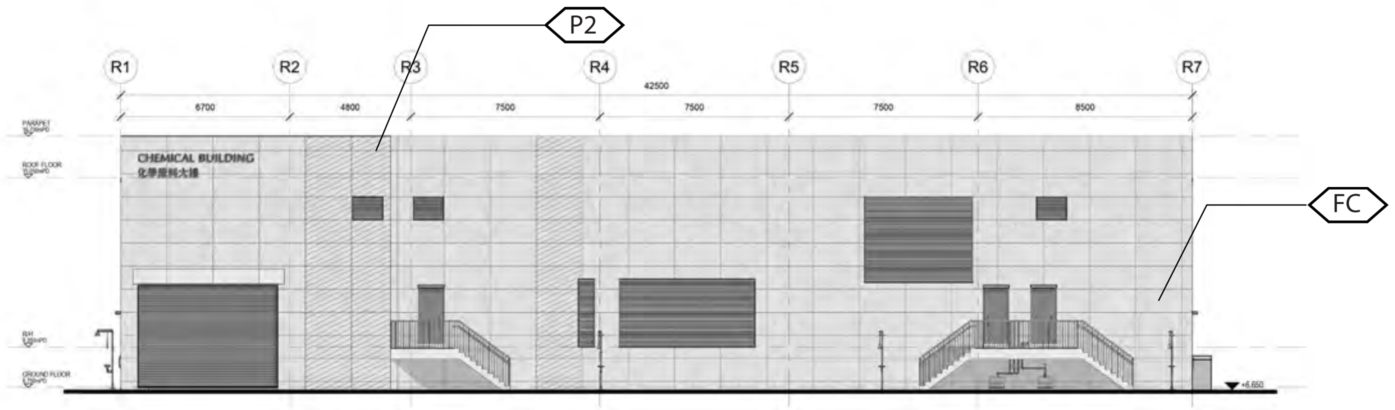
FC FAIRFACED CONCRETE	A1 ALUMINIUM (BRIGHT COPPER)	A2 ALUMINIUM (BLUE)	A3 ALUMINIUM (W/. WOOD GRAIN PATTERN)	A4 ALUMINIUM (WHITE)	A5 ALUMINIUM (GREY)
SS S.S. (BEAD BLASTED)	G1 CURTAIN WALL	G2 GLASS WALL	G3 GLASS BLOCK	G4 GLASS WALL W/. REFLECTIVE COATING	
P1 PAINT IN GRAY	P2 TEXTURED PAINT IN GRAY	D1 DFMA CONCRETE PANEL (LIGHT GRAY, PLAIN)	D2 DFMA CONCRETE PANEL (LIGHT GRAY, BRUSHED)	D3 DFMA CONCRETE PANEL (DARK GRAY, RIBBED)	

R1 - 03 - ELEVATION

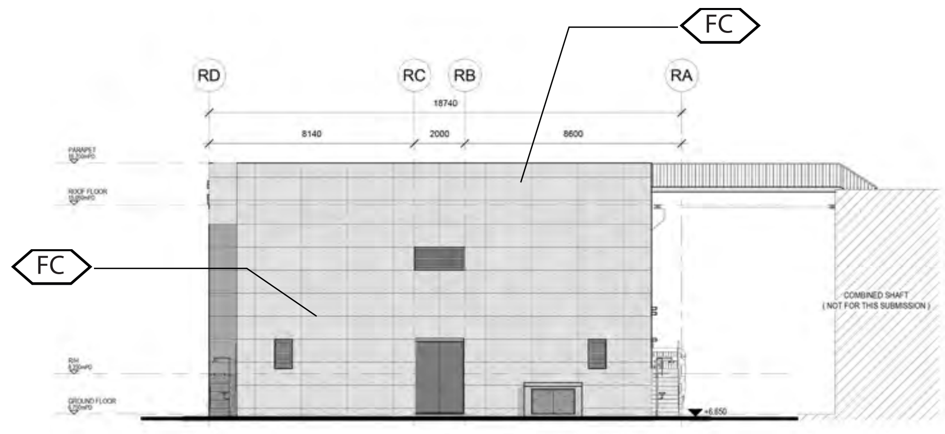
Appendix F - Hard Landscape Design (Chemical Building)

AS-BUILT

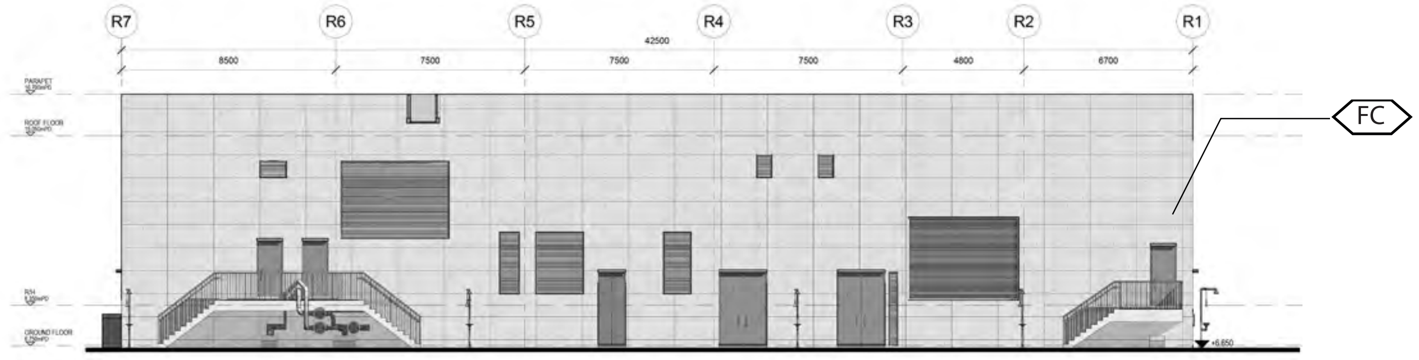
AJC JOINT VENTURE



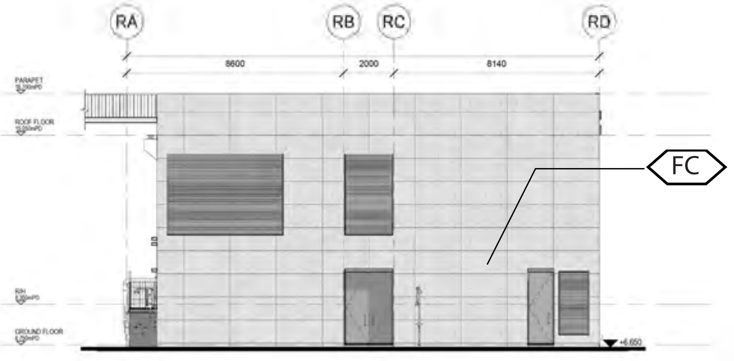
ELEVATION 1 (SCALE1:300)



ELEVATION 2 (SCALE1:300)



ELEVATION 3 (SCALE1:300)



ELEVATION 4 (SCALE1:300)

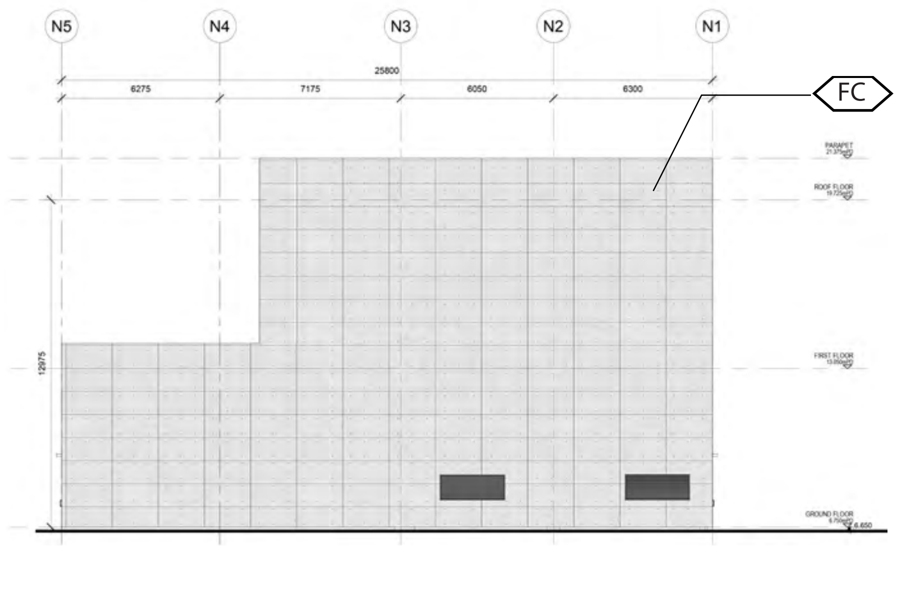
LEGEND

FC	FAIRFACED CONCRETE	A1	ALUMINIUM (BRIGHT COPPER)	A2	ALUMINIUM (BLUE)	A3	ALUMINIUM (W/. WOOD GRAIN PATTERN)	A4	ALUMINIUM (WHITE)	A5	ALUMINIUM (GREY)
SS	S.S. (BEAD BLASTED)	G1	CURTAIN WALL	G2	GLASS WALL	G3	GLASS BLOCK	G4	GLASS WALL W/. REFLECTIVE COATING		
P1	PAINT IN GRAY	P2	TEXTURED PAINT IN GRAY	D1	DFMA CONCRETE PANEL (LIGHT GRAY, PLAIN)	D2	DFMA CONCRETE PANEL (LIGHT GRAY, BRUSHED)	D3	DFMA CONCRETE PANEL (DARK GRAY, RIBBED)		

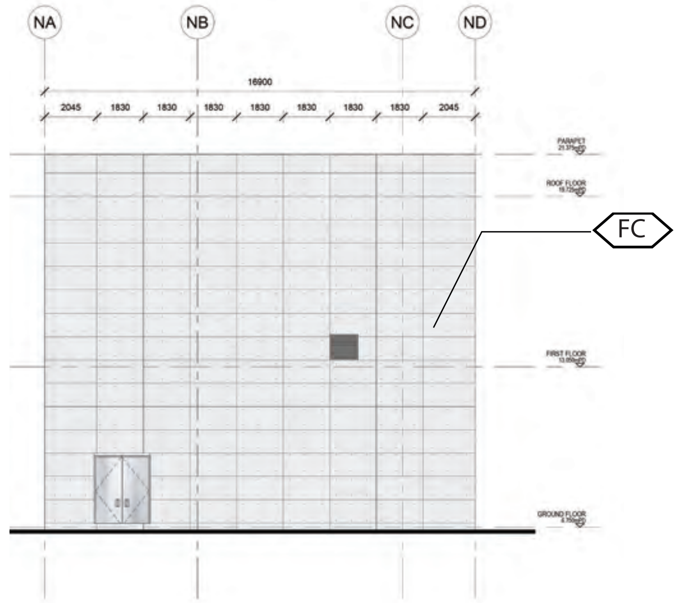
R0- 02 - ELEVATION

Appendix F - Hard Landscape Design
(Main Electrial&Chiller Plant Building)

AS-BUILT

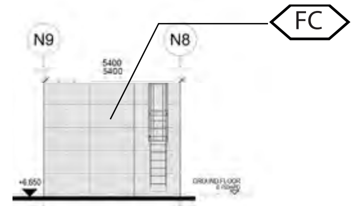


ELEVATION 1 (SCALE 1:300)

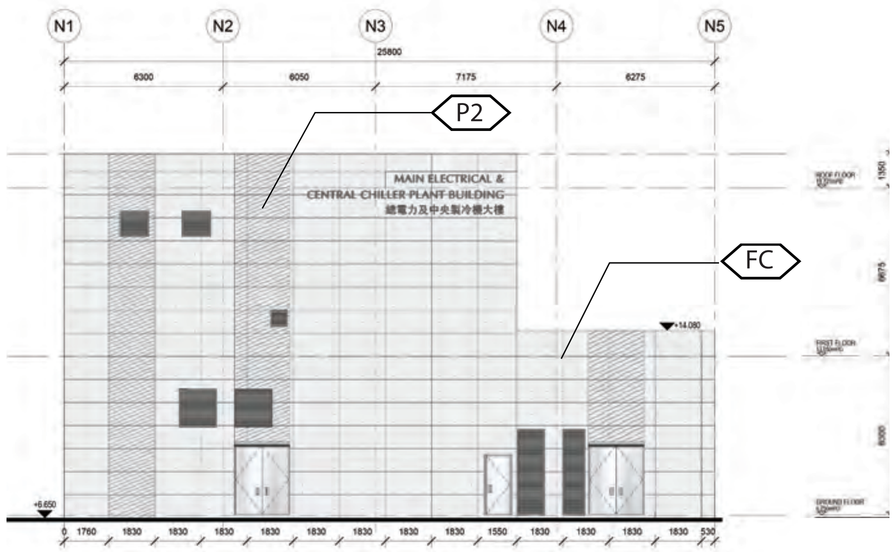


ELEVATION 2 (SCALE 1:300)

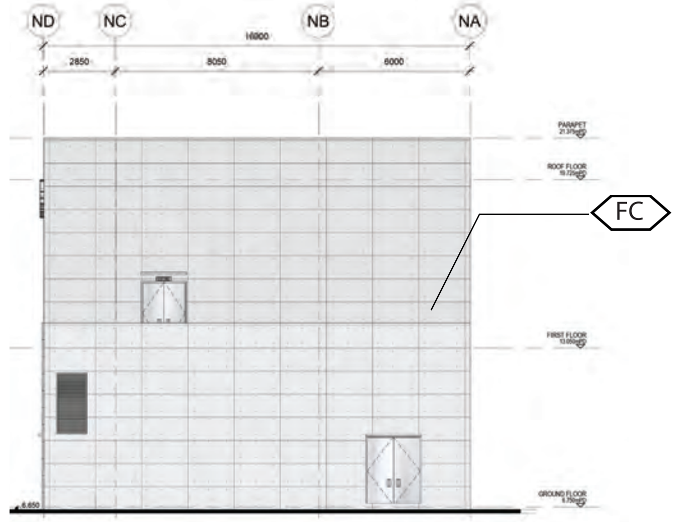
ELEVATION 5 (SCALE 1:300)



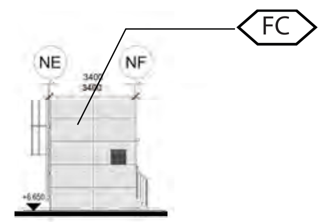
ELEVATION 6 (SCALE 1:300)



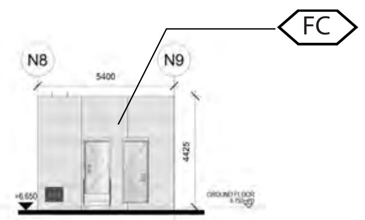
ELEVATION 3 (SCALE 1:300)



ELEVATION 4 (SCALE 1:300)



ELEVATION 7 (SCALE 1:300)



ELEVATION 8 (SCALE 1:300)

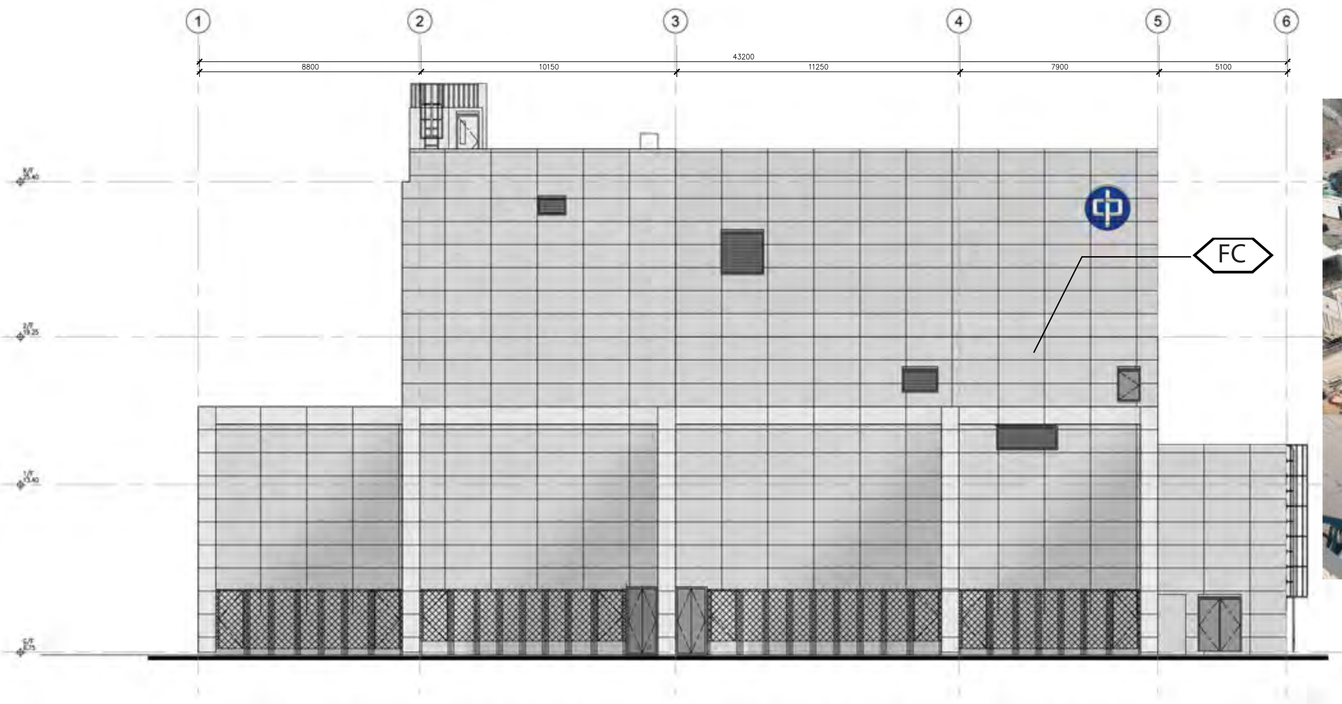
LEGEND

FC FAIRFACED CONCRETE
SS S.S. (BEAD BLASTED)
P1 PAINT IN GRAY
A1 ALU
G1 CUR
P2 TEX
MINIUM (BLUE)
SS WALL
IA CONCRETE PANEL (LIGHT GRAY, PLAIN)
A3 ALUMINIUM (W/. WOOD GRAIN PATTERN)
G3 GLASS BLOCK
D2 DFMA CONCRETE PANEL (LIGHT GRAY, BRUSI
A5 ALUMINIUM (GREY)
VE COATING
DARK GRAY, RIBBED)

N - 03 - ELEVATION

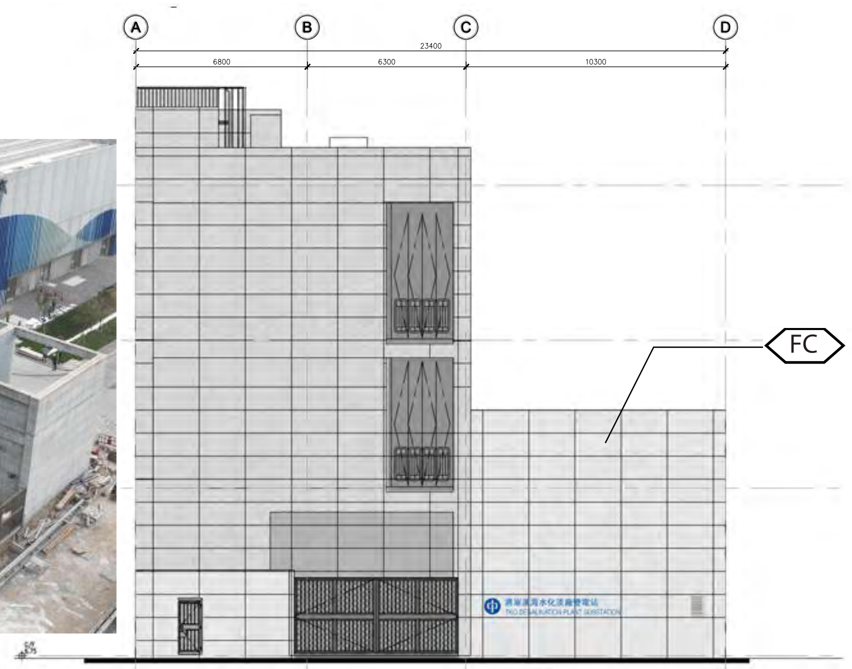
Appendix F - Hard Landscape Design
(TKO Desalination Plant Substation)

AS-BUILT



ELEVATION 1 (SCALE 1:300)

ELEVATION 2 (SCALE 1:300)



ELEVATION 3 (SCALE 1:300)

ELEVATION 4 (SCALE 1:300)

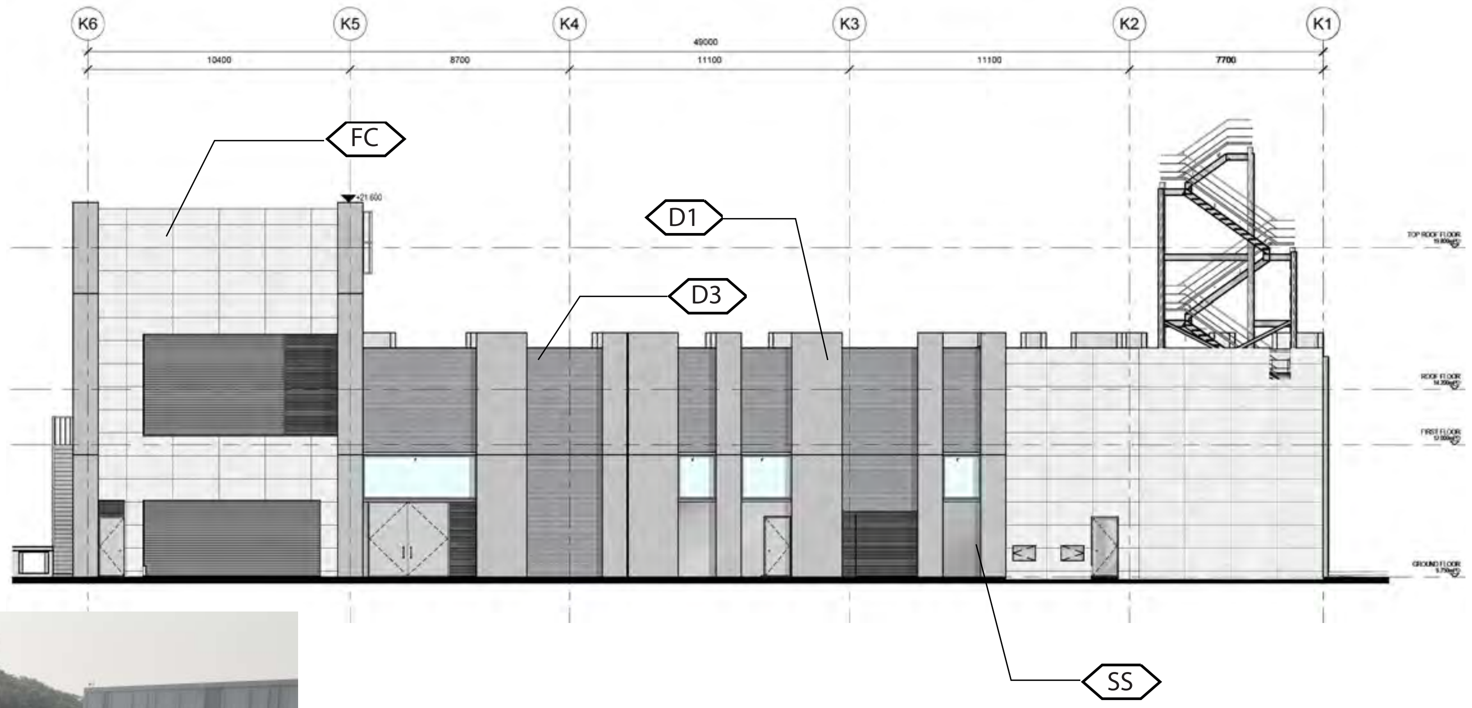
LEGEND

FC FAIRFACED CONCRETE	A1 ALUMINIUM (BRIGHT COPPER)	A2 ALUMINIUM (BLUE)	A3 ALUMINIUM (W/. WOOD GRAIN PATTERN)	A4 ALUMINIUM (WHITE)	A5 ALUMINIUM (GREY)
SS S.S. (BEAD BLASTED)	G1 CURTAIN WALL	G2 GLASS WALL	G3 GLASS BLOCK	G4 GLASS WALL W/. REFLECTIVE COATING	
P1 PAINT IN GRAY	P2 TEXTURED PAINT IN GRAY	D1 DFMA CONCRETE PANEL (LIGHT GRAY, PLAIN)	D2 DFMA CONCRETE PANEL (LIGHT GRAY, BRUSHED)	D3 DFMA CONCRETE PANEL (DARK GRAY, RIBBED)	

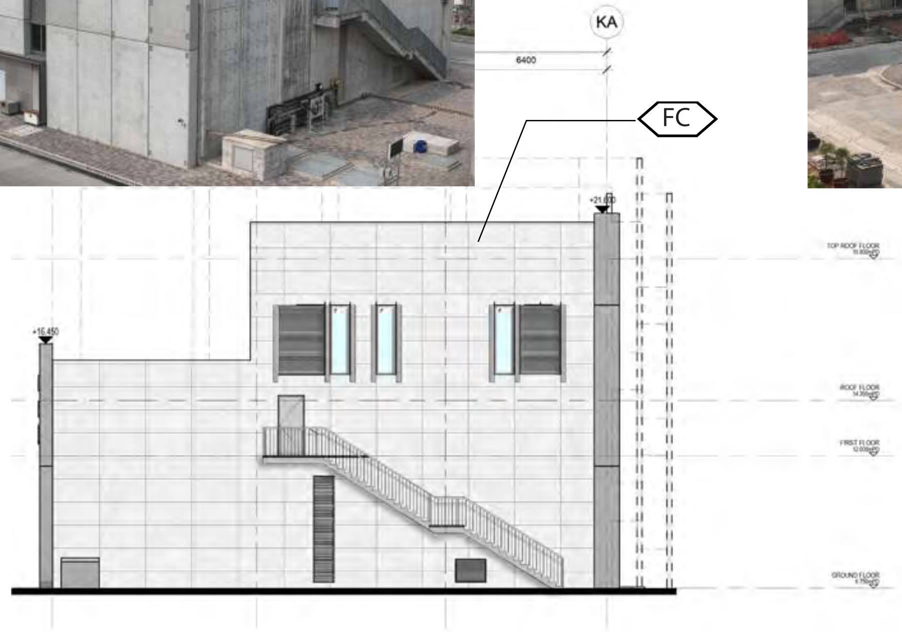
S - 03 - ELEVATION

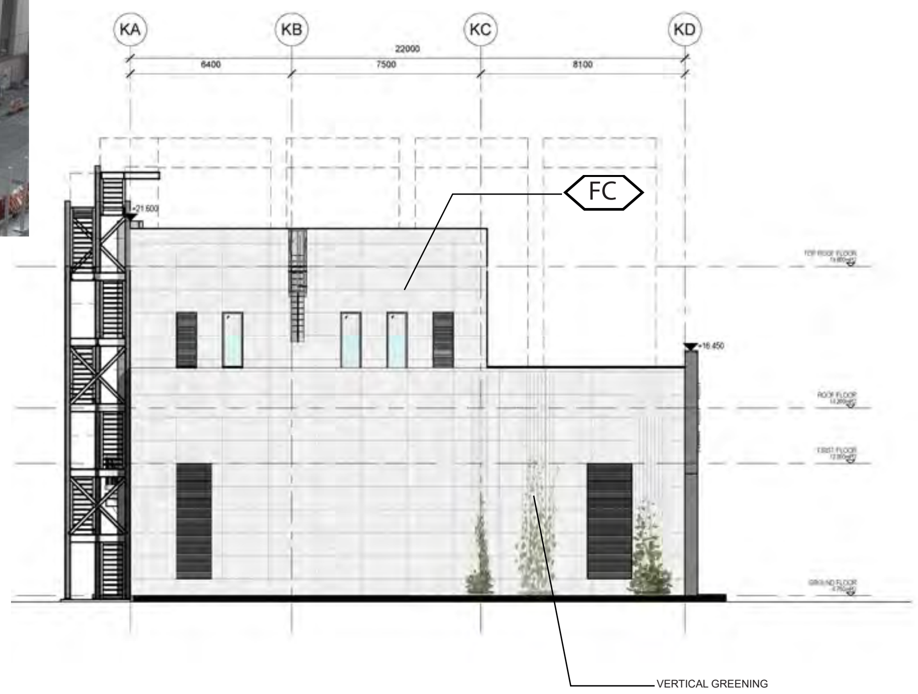
Appendix F - Hard Landscape Design (Post Treatment Building)

SCALE 1:300)



ELEVATION 2 (SCALE 1:300)





ELEVATION 3 (SCALE 1:300)

ELEVATION 4 (SCALE 1:300)

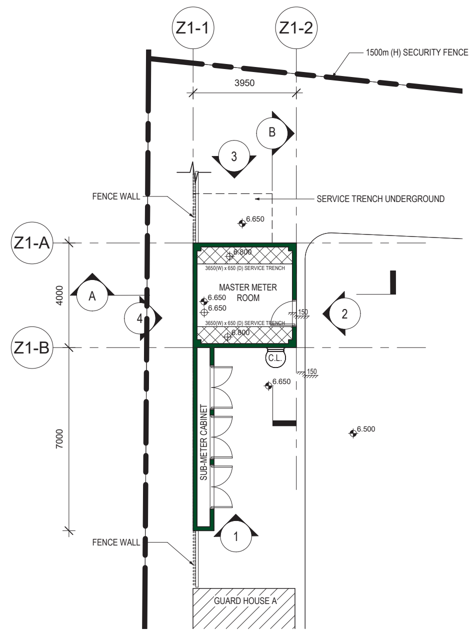
LEGEND

FC FAIRFACED CONCRETE	A1 ALUMINIUM (BRIGHT COPPER)	A2 ALUMINIUM (BLUE)	A3 ALUMINIUM (W/. WOOD GRAIN PATTERN)	A4 ALUMINIUM (WHITE)	A5 ALUMINIUM (GREY)
SS S.S. (BEAD BLASTED)	G1 CURTAIN WALL	G2 GLASS WALL	G3 GLASS BLOCK	G4 GLASS WALL W/. REFLECTIVE COATING	
P1 PAINT IN GRAY	P2 TEXTURED PAINT IN GRAY	D1 DFMA CONCRETE PANEL (LIGHT GRAY, PLAIN)	D2 DFMA CONCRETE PANEL (LIGHT GRAY, BRUSHED)	D3 DFMA CONCRETE PANEL (DARK GRAY, RIBBED)	

K - 03 - ELEVATION

Appendix F - Hard Landscape Design (Master Meter Room)

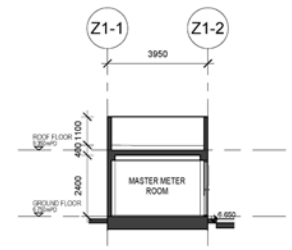
AS-BUILT



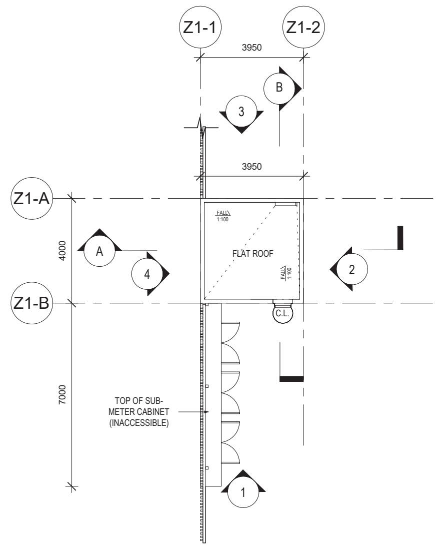
GROUND FLOOR PLAN (SCALE 1:300)

ELEVATION 1 (SCALE 1:300)

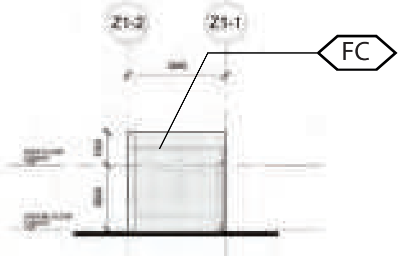
ELEVATION 2 (SCALE 1:300)



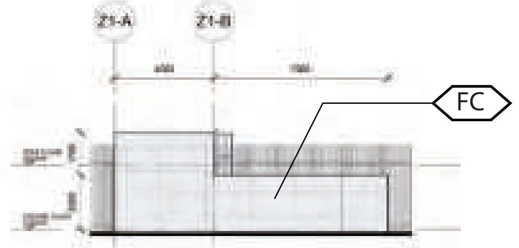
SECTION A-A (SCALE 1:300)



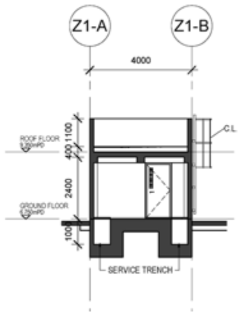
ROOF FLOOR PLAN (SCALE 1:300)



ELEVATION 3 (SCALE 1:300)



ELEVATION 4 (SCALE 1:300)



SECTION B-B (SCALE 1:300)

LEGEND

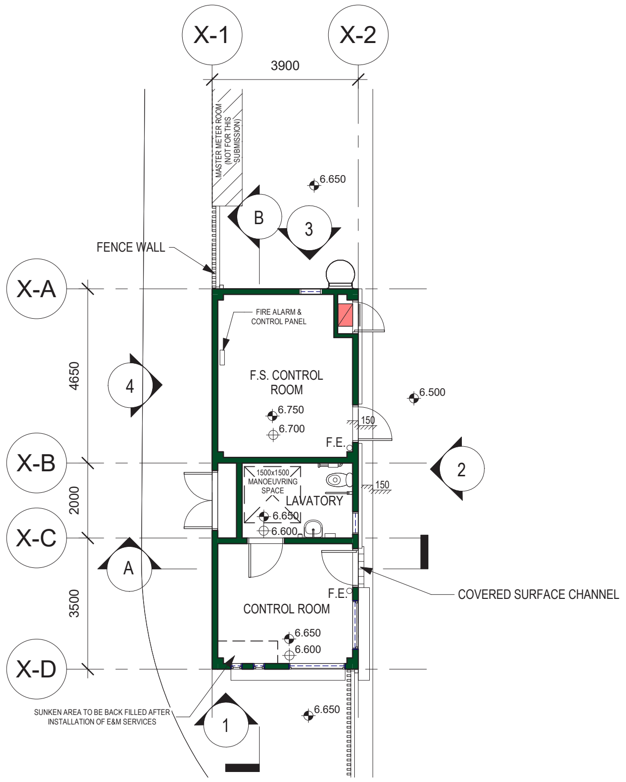
FC FAIRFACED CONCRETE	A1 ALUMINIUM (BRIGHT COPPER)	A2 ALUMINIUM (BLUE)	A3 ALUMINIUM (W/. WOOD GRAIN PATTERN)	A4 ALUMINIUM (WHITE)	A5 ALUMINIUM (GREY)
SS S.S. (BEAD BLASTED)	G1 CURTAIN WALL	G2 GLASS WALL	G3 GLASS BLOCK	G4 GLASS WALL W/. REFLECTIVE COATING	
P1 PAINT IN GRAY	P2 TEXTURED PAINT IN GRAY	D1 DFMA CONCRETE PANEL (LIGHT GRAY, PLAIN)	D2 DFMA CONCRETE PANEL (LIGHT GRAY, BRUSHED)	D3 DFMA CONCRETE PANEL (DARK GRAY, RIBBED)	

Z - 01 - PLAN, ELEVATION AND SECTION

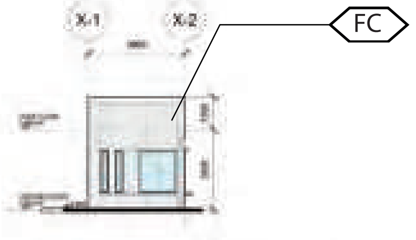
Appendix F - Hard Landscape Design (Guard House A)

AS-BUILT

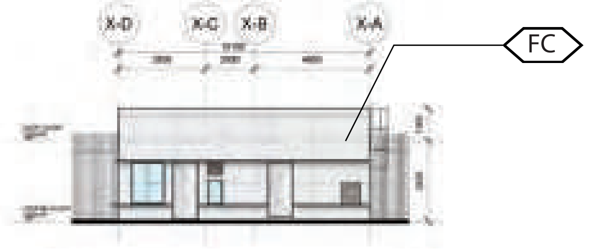
acciona JEC AJC JOINT VENTURE



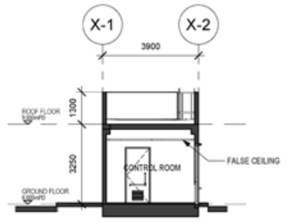
GUARD HOUSE A GROUND FLOOR PLAN (SCALE 1:300)



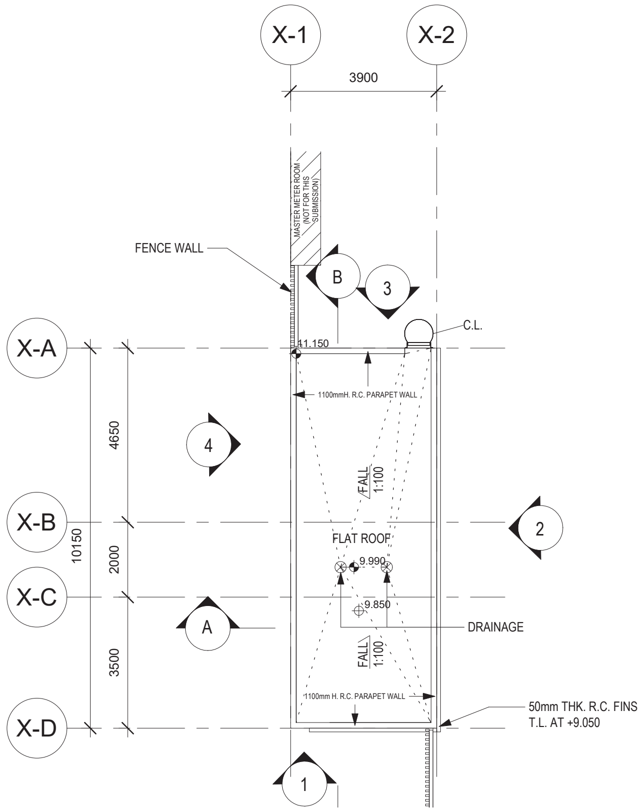
GUARD HOUSE A ELEVATION 1 (SCALE 1:300)



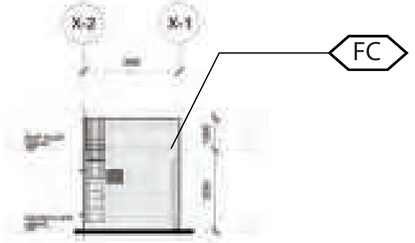
GUARD HOUSE A ELEVATION 2 (SCALE 1:300)



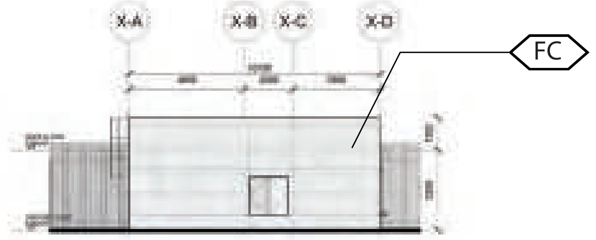
GUARD HOUSE A SECTION A-A (SCALE 1:300)



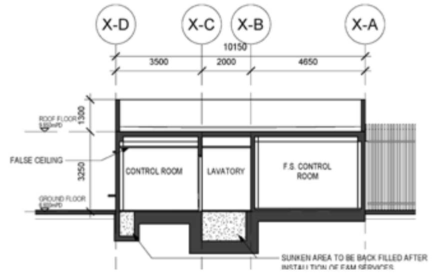
GUARD HOUSE A ROOF FLOOR PLAN (SCALE 1:300)



GUARD HOUSE A ELEVATION 3 (SCALE 1:300)



GUARD HOUSE A ELEVATION 4 (SCALE 1:300)



GUARD HOUSE A SECTION B-B (SCALE 1:300)

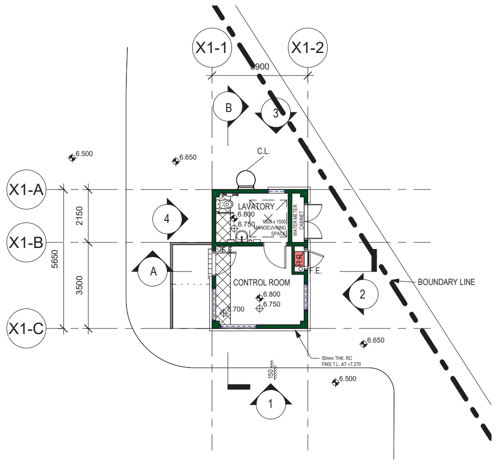
LEGEND

FC FAIRFACED CONCRETE	A1 ALUMINIUM (BRIGHT COPPER)	A2 ALUMINIUM (BLUE)	A3 ALUMINIUM (W/. WOOD GRAIN PATTERN)	A4 ALUMINIUM (WHITE)	A5 ALUMINIUM (GREY)
SS S.S. (BEAD BLASTED)	G1 CURTAIN WALL	G2 GLASS WALL	G3 GLASS BLOCK	G4 GLASS WALL W/. REFLECTIVE COATING	
P1 PAINT IN GRAY	P2 TEXTURED PAINT IN GRAY	D1 DFMA CONCRETE PANEL (LIGHT GRAY, PLAIN)	D2 DFMA CONCRETE PANEL (LIGHT GRAY, BRUSHED)	D3 DFMA CONCRETE PANEL (DARK GRAY, RIBBED)	

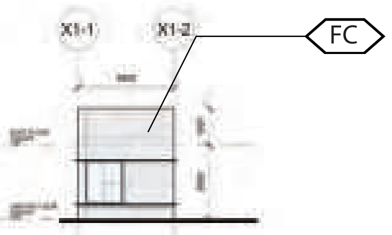
X0 - 01 - PLAN, ELEVATION AND SECTION

Appendix F - Hard Landscape Design (Guard House B)

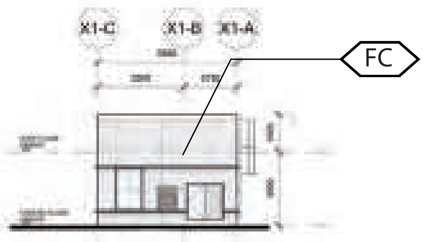
AS-BUILT



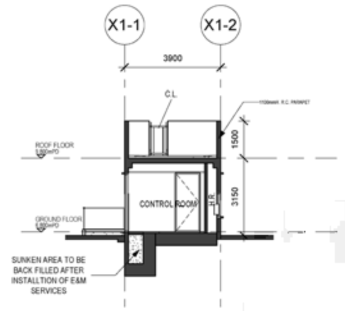
GUARD HOUSE B GROUND FLOOR PLAN (SCALE 1:300)



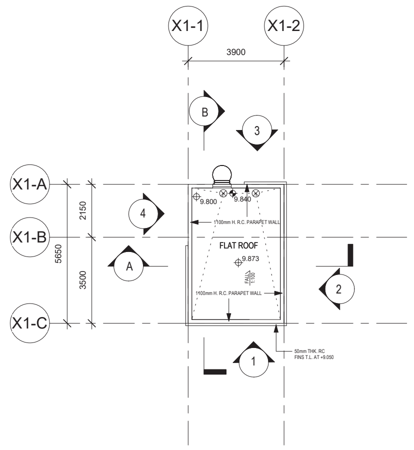
GUARD HOUSE B ELEVATION 1 (SCALE 1:300)



GUARD HOUSE B ELEVATION 2 (SCALE 1:300)

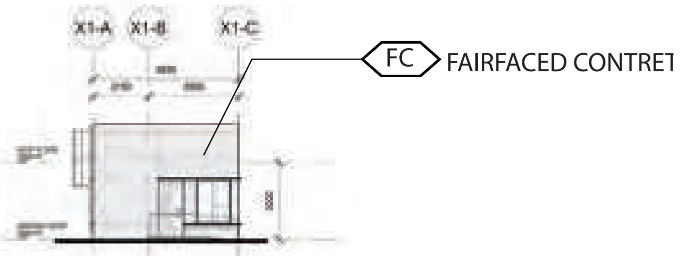


GUARD HOUSE B SECTION A-A (SCALE 1:300)

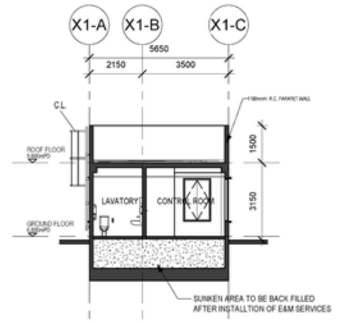


GUARD HOUSE B ROOF FLOOR PLAN (SCALE 1:300)

GUARD HOUSE B ELEVATION 3 (SCALE 1:300)



GUARD HOUSE B ELEVATION 4 (SCALE 1:300)



GUARD HOUSE B SECTION B-B (SCALE 1:300)

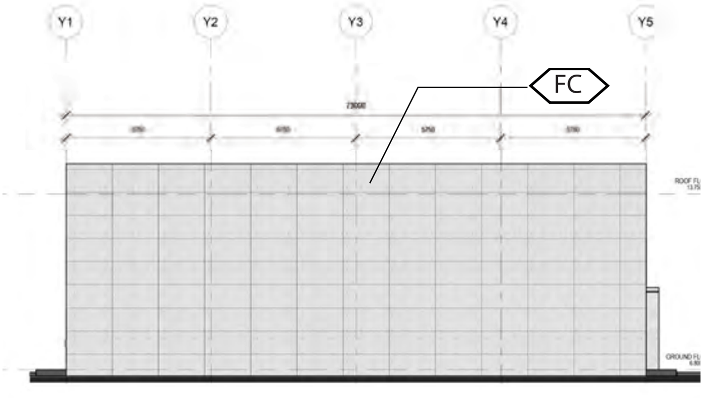
LEGEND

FC FAIRFACED CONCRETE	A1 ALUMINIUM (BRIGHT COPPER)	A2 ALUMINIUM (BLUE)	A3 ALUMINIUM (W/. WOOD GRAIN PATTERN)	A4 ALUMINIUM (WHITE)	A5 ALUMINIUM (GREY)
SS S.S. (BEAD BLASTED)	G1 CURTAIN WALL	G2 GLASS WALL	G3 GLASS BLOCK	G4 GLASS WALL W/. REFLECTIVE COATING	
P1 PAINT IN GRAY	P2 TEXTURED PAINT IN GRAY	D1 DFMA CONCRETE PANEL (LIGHT GRAY, PLAIN)	D2 DFMA CONCRETE PANEL (LIGHT GRAY, BRUSHED)	D3 DFMA CONCRETE PANEL (DARK GRAY, RIBBED)	

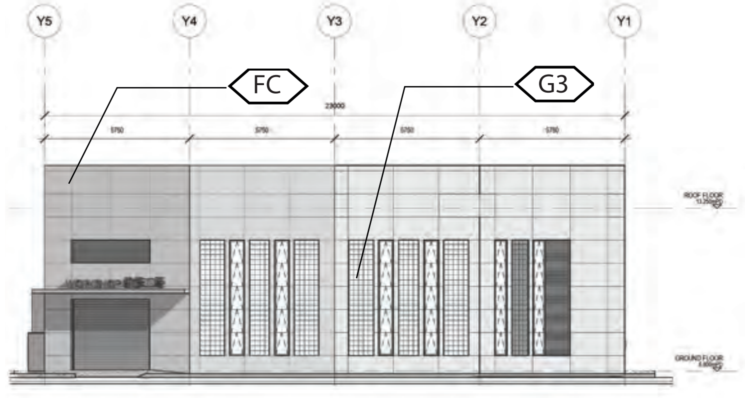
X1 - 01 - PLAN, ELEVATION AND SECTION

Appendix F - Hard Landscape Design (Workshop)

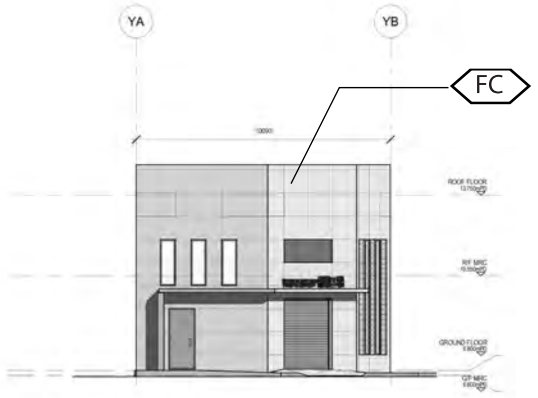
AS-BUILT



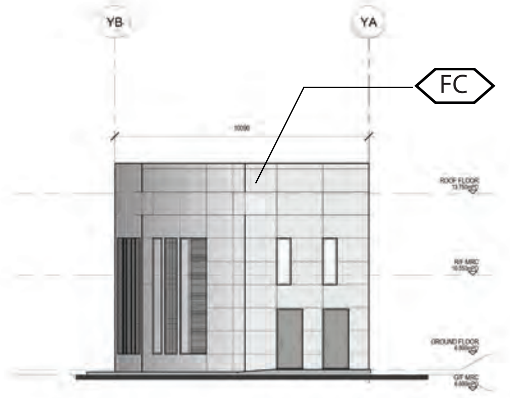
ELEVATION 1 (SCALE 1:300)



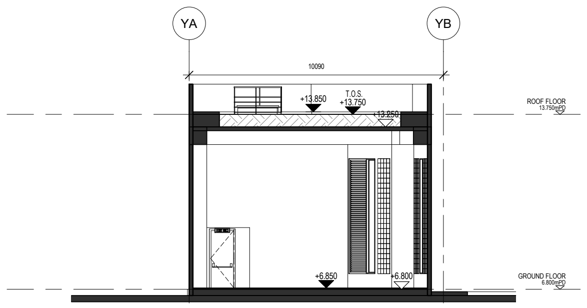
ELEVATION 2 (SCALE 1:300)



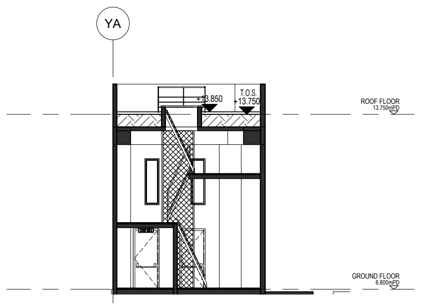
ELEVATION 3 (SCALE 1:300)



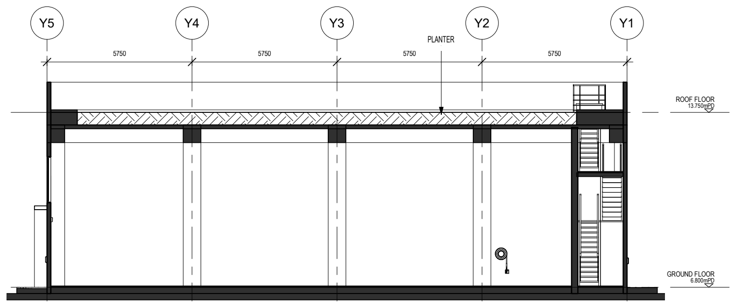
ELEVATION 4 (SCALE 1:300)



SECTION A-A (SCALE 1:300)



SECTION B-B (SCALE 1:300)



SECTION C-C (SCALE 1:300)

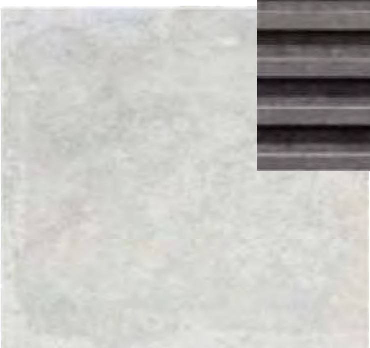
LEGEND

FC FAIRFACED CONCRETE	A1 ALUMINIUM (BRIGHT COPPER)	A2 ALUMINIUM (BLUE)	A3 ALUMINIUM (W/. WOOD GRAIN PATTERN)	A4 ALUMINIUM (WHITE)	A5 ALUMINIUM (GREY)
SS S.S. (BEAD BLASTED)	G1 CURTAIN WALL	G2 GLASS WALL	G3 GLASS BLOCK	G4 GLASS WALL W/. REFLECTIVE COATING	
P1 PAINT IN GRAY	P2 TEXTURED PAINT IN GRAY	D1 DFMA CONCRETE PANEL (LIGHT GRAY, PLAIN)	D2 DFMA CONCRETE PANEL (LIGHT GRAY, BRUSHED)	D3 DFMA CONCRETE PANEL (DARK GRAY, RIBBED)	

Y - 02 - ELEVATION AND SECTION

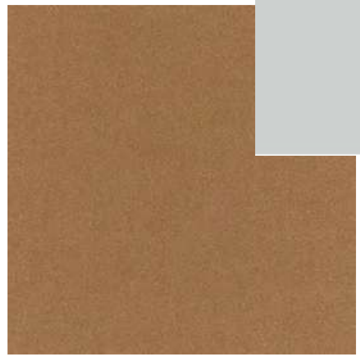
Appendix F - Hard Landscape Design Material Board (Exterior)

DfMA CONCRETE PANEL
(TYPE B, RIBBED)
D3



DfMA CONCRETE PANEL
(TYPE A1, PLAIN)
D1

ALUMINIUM CLADDING
(GRAY TIMBER WOLF)
A5



ALUMINIUM CLADDING
(BRIGHT COPPER)
A1

M04 3mm ALUMINIUM WOOD GRAIN PATTERN FINISH
FOR ALUMINIUM FINS/ PANEL WITH TIMBER FINISH & FOR EXTERNAL CEILING AT ADMINISTRATION BUILDING
A3

ST02 BLACK GRANITE
WITH BUSH HAMMERED FINISH
EDGE OF STEPS AT SAIRCASE AND PLANTER

D2 DfMA CONCRETE PANEL
(TYPE A2, BRUSHED)

SS STAINLESS STEEL (SATIN)

F38 300x600x10mm OUTDOOR FULL-BODY PORCELAIN TILE ON (IVORY FLOW L2)
STEPS AT GRAND STAIRCASE

Appendix F - Hard Landscape Design Material Board (Exterior)

AS-BUILT

PANTONE	649CP	552CP	292CP	2386CP

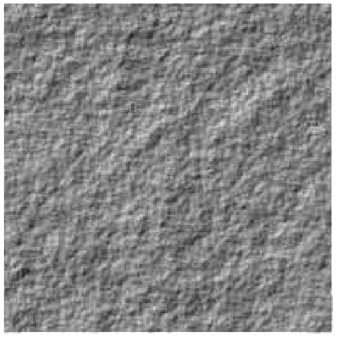
A2 ALUMINIUM (BLUE)

PANTONE WHITE 000C

A4 ALUMINIUM (WHITE)

PANTONE COOL GRAY 9C

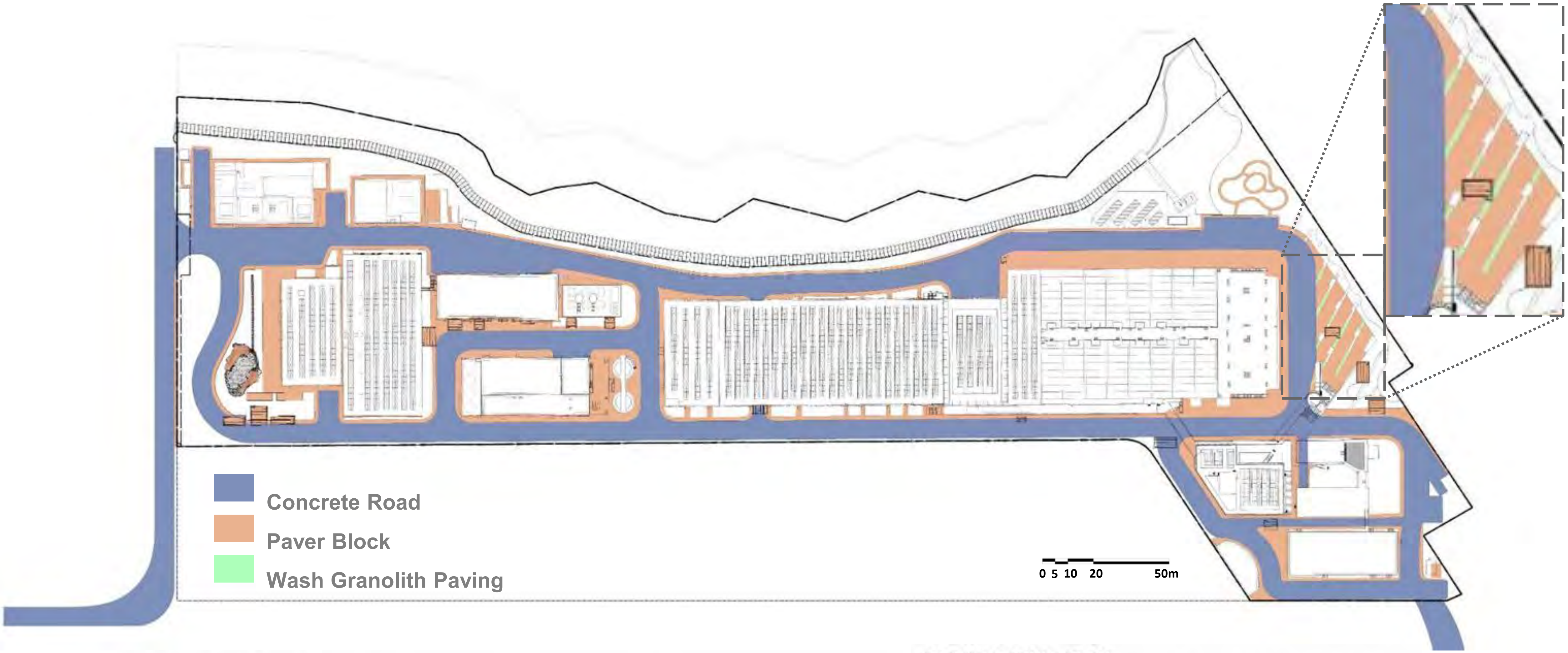
P1 GRAY PAINT



STONE TEXTURED PAINT

P2 TEXTURED PAINT

AS-BUILT



MATERIAL SCHEDULE

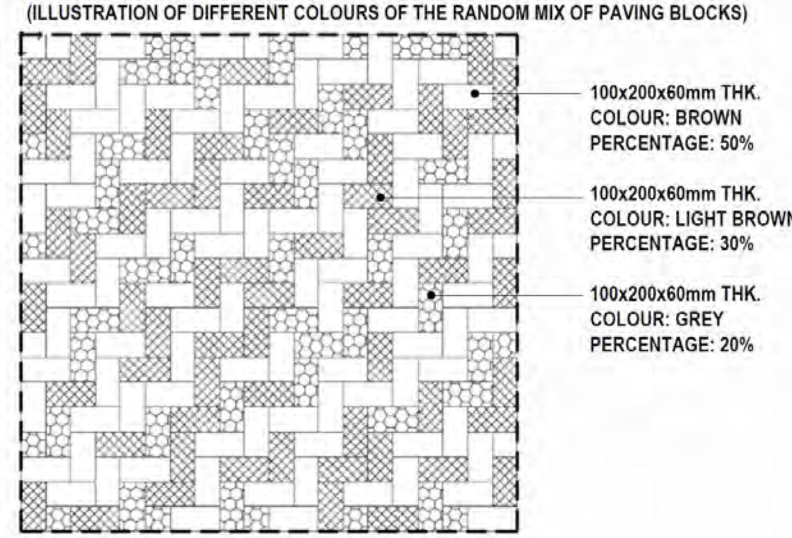
PAVER BLOCK

CONCRETE ROAD
(FOR VEHICULAR)

WASH GRANOLITH PAVING

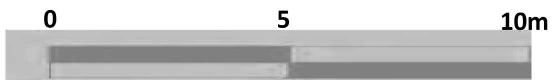
PAVING MODULE PLAN

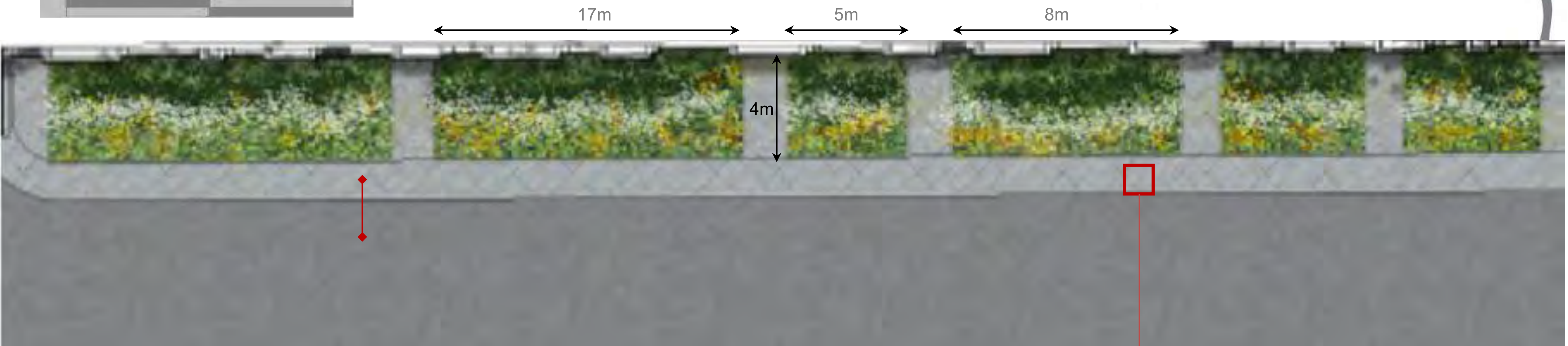
(ILLUSTRATION OF DIFFERENT COLOURS OF THE RANDOM MIX OF PAVING BLOCKS)



Appendix F - Hard Landscape Design (Paving Pattern)

AS-BUILT





Paving Pattern

(ILLUSTRATION OF DIFFERENT COLOURS OF THE RANDOM MIX OF PAVING BLOCKS)