



Leighton Joint Venture

c/o 39th Floor
Sun Hung Kai Centre
30 Harbour Road
Hong Kong

t: (852) 2823-1111
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10 February 2020

Our Ref: H2613-LJV-EN-LE-12193

The EIA Ordinance Register Office
Environmental Protection Department
27/F, Southern Centre
130 Hennessy Road
Wan Chai, Hong Kong

Dear Sir / Madam,

Contract No. HY/2011/08
Central-Wan Chai Bypass – Tunnel Buildings, Systems and Fittings, and Works
Associated with Tunnel Commissioning
Permit Condition 2.14: Submission of Final Landscape Plan (Rev. 5) for FEP-11/364/2009/E

Pursuant to Clause 2.14 of the issued Further Environmental Permit FEP-11/364/2009/E regarding the captioned subject, we submit herewith four hard copies and one electronic copy of the captioned submission and certification letters from ET and IEC for your information.

If you have any queries or require further information, please feel free to contact our Mr. Stephen Tsang at 96860787 or stephen.tsang@leightonasia.com.

Yours faithfully
For and on behalf of
Leighton Joint Venture

Colman Wong
Project Director

CW / JkC / YKW / st

Encl.

cc Mr. David Kwan (AECOM) (w/o encl.)
Mr. Raymond Dai (Lams Geotechnics Limited) (by fax w/o encl.:2882 3331)
Mr. David Yeung (RAMBOLL8 Hong Kong Ltd) (by fax w/o encl.:3548 6988)

Our Ref: H2613-LJV-EN-LE-12193

Ref.: AACWBIECEM00_0_11964L.20

7 February 2020

Leighton Joint Venture
39/F, Sun Hung Kai Centre
30 Harbour Road
Wan Chai, Hong Kong

By Post and Fax (2140 6799)

Attention: Mr. Colman Wong

Dear Sir,

**Re: Contract No. HY/2011/08
Central – Wan Chai Bypass – Tunnel Buildings, Systems and Fittings,
and Works Associated with Tunnel Commissioning**

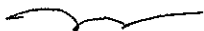
Final Landscape Plan (Rev. 5)

Reference is made to your submission of the Final Landscape Plan (Rev. 5 dated 22 January 2020) to us through e-mail on 6 February 2020 for our review and comment.

Please be informed that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 2.14 of FEP-11/364/2009/E.

Please feel free to contact the undersigned should you have any queries.

Yours faithfully,



David Yeung
Independent Environmental Checker

c.c. HyD
AECOM
Lam

Mr. Tony Cheung
Mr. David Kwan
Mr. Raymond Dai

by fax: 2714 5289
by fax: 3912 3010
by fax: 2882 3331

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Lam Geotechnics Limited

Ground Investigation & Instrumentation Professionals

華益土力有限公司

Ref : G1938/CS/L048/FEP-11/364/2009/E
Date : 07 February 2020

Leighton Joint Venture
39/F Sun Hung Kai Centre
30 Harbour Road
Wan Chai Hong Kong

(By Post and Fax: 2140-6799)

Attn: Site Agent, Mr. Colman Wong

Dear Mr. Wong,

Contract No. HY/2011/08
Central – WanChai Bypass Tunnel –Tunnel Buildings, Systems and Fittings, and Works
Associated with Tunnel Commissioning
Final Landscape Plan (Rev.5)

Referring to the captioned submission received through email on 06 February 2020, we have reviewed your submitted details and hereby certified this submission in accordance with Condition 2.14 of FEP-11/364/2009/E.

Should you have any enquiry, please feel free to contact the undersigned at 2839 5666

Yours faithfully,

Raymond Dai
Environmental Team Leader

c.c HyD
AECOM CWB
Ramboll

Mr. Tony Cheung
Mr. David Kwan
Mr. David Yeung

(By fax: 2714-5289)
(By fax: 3912-3010)
(By fax: 3465-2899)



<u>Comment from EPD on 04 December 2019</u>	<u>Response to comment on</u>
(a) According to Para 1.2, it is acknowledged that the construction stage for the captioned works and the associated landscape works have been completed.	Noted
(b) Compared to previous submission dated 6.5.2015, some drawings are missing in this submission i.e. general layout plan, layout plan of the CWB-CC. Please review and incorporate the above missing drawings in the coming submission.	General Layout Plan is added in Figure 1 Key Visual Sensitive receivers is added in Figure 2
(c) It is noted that proposed plant species at various locations i.e. West Ventilation Building & Administration Building etc. as well as for compensatory trees replacing transplanted trees replacing transplanted trees due to typhoon damage were changed. As such, please be reminded to seek the agreement from the future vegetation maintenance agent e.g. LCSD as stated in Para. 2.9 on the change of plant species. It is suggested that copy of agreement record from the above maintenance department should be incorporated in the coming submission for a complete record purpose.	Agreement record is included in Appendix D
(d) For the drawing sketchno.60095653/RW/SK0567B. tree No. T184 shows as a transplanted tree but it states as a retained tree in Para.2.7. Please review and rectify accordingly.	Word "Retained" was deleted in Para.2.7.
(e) For Appendix E – it is suggested the photographic records are coloured for proper record use	It is shown colour version.

	Additional Information:
	-MVB Cladding Design is included in Appendix C. -Title of Appendix C is changed to Hard Landscape Plan – Fabric Glass Planter Box for East Ventilation Building and Administration Building and MVB Cladding Design
	Information has been updated for Appendix A (Tree Information)

LEIGHTON
禮頓



**Contract No. HY/2011/08
Central-Wan Chai Bypass – Tunnel Building,
Systems and Fittings, and Works Associated
with Tunnel Commissioning**

Final Landscape Plan

Reviewed by:



Wu Yun Kau
Environmental Officer

Approved by:



Colman Wong
Site Agent

About this Document

This document is available for all project employees via the project network. We regularly revise this document and the latest version is always available electronically. Once printed, the document should no longer be considered to be the latest version. It may be distributed to the Highways Department and the Engineer on the understanding that any such document may not be the latest version or it may be distributed to the Highways Department and the Engineer as a controlled document in which case the front cover is to be stamped "Controlled Copy" in red and a copy number added.

The Environmental Officer is responsible for updating and maintaining the plan, including the original hard copy, which is signed by the person in charge of the project to indicate approval.

The status of this plan is identified by a revision number and date on each page. On revision, the plan will be uploaded as a whole to the project server or within the Incite Keystone. The Environmental Officer maintains a record of the revision status of the plan, which is available on request.

If you have any enquiry relating to this plan, please contact the Environmental Officer.

Revision History and Plan Approval

Revision	Date	Section/Description	Prepared	Reviewed	Authorised by
01	16.07.2014	Issue for Construction	Penny Yiu	Donald Ip	Colman Wong
02	12.02.2015	Responses to Comments	Malcolm Leung	Chris Chan	Colman Wong
03	19.10.2017	Section 4.4, Appendix D	Christy So	Chris Chan	Colman Wong
04	11.11.2019	Final Landscape Plan	Alison Chan	Wu Yun Kau	Colman Wong
05	06.02.2020	Final Landscape Plan response to Comments	Stephen Tsang	Wu Yun Kau	Colman Wong

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- 2. LANDSCAPE WORKS**
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Appendix C	Hard Landscape Plan – Fabric glass planter box for East Ventilation Building and Administration Building and MVB Cladding Design
Appendix D	Summary of Compensatory for Damaged Trees
Appendix E	Photographic Record of Soft Landscape and Hard Landscape Works

FIGURES

Figure 1	Key Plan and General Layout Plan
Figure 2	Layout Plan of the Key Visual Sensitive Receivers

1. Introduction

- 1.1. The purpose of this Final Landscape Plan is to fulfil the Condition 2.14 under Further Environmental Permit number: FEP-11/364/2009/E.
- 1.2. The construction stage for the Central - Wan Chai Bypass - Tunnel Building, Systems and Fittings and Works Associated with Tunnel Commissioning (Contract No. HY/2011/08, hereinafter referred to as “the **CWB-CC**”) has been completed in 2018. This Final Landscape Plan is to provide a summary of the landscape works completed by the Contractor – Leighton Contractors (Asia) Limited (hereinafter referred to as “the Contractor” or “LCAL”).
- 1.3. The scope of the CWB-CC mainly includes:
- construction of the tunnel control buildings and ventilation buildings including Administration Building, West Ventilation Building, Central Ventilation Building, East Ventilation Building and East Vent Shaft;
 - provision of associated road lighting, road signing, traffic control and surveillance system; and
 - carrying out other associated works.
- 1.4. According to the approved EIA report (Registered No.: AEIAR-125/2008 - Wan Chai Development Phase II and Central-Wan Chai Bypass), the proposed operation phase landscape mitigation measures are listed in table below.

ID No.	Landscape and Visual Mitigation Measures
OM1	Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.
OM2	Shrub and Climbing Plants to soften proposed structures.
OM3	Buffer Tree and Shrub Planting to screen proposed roads and associated structures.
OM4	Aesthetic design of proposed waterfront promenade.
OM5	Aesthetic streetscape design.
OM6	Aesthetic design of roadside amenity areas.

- 1.5. Under the scope of CWB-CC, OM1, OM2 and OM3 are relevant. Buffer tree and shrub were planted on site according to planting plans designed by Engineer Representative and approved by authorities. Aesthetic design of roadside in amenity areas by Engineer Representative were implemented. Please refer to Appendix A for Trees and Shrubs Planting Plan; Appendices B and C for Hard Landscape Plans. The irrigation plans were also illustrated in Appendix B respectively.

2. Landscape Works

- 2.1. The CWB-CC has implemented the following both hard and soft landscape works. For hard landscape works, it includes application of landscape features amenity areas. For soft landscape works, it includes the provision of new soil mix, planting of new soil mix, planting of new shrubs, preservation, transplantation, compensation and planting of trees to tally with the following sub-sections in the submission.
- 2.2. Provision of New Soil Mix
- New soil mix was used for new planting areas.
 - Soil mix was tested by a HOKLAS accredited laboratory and submitted to the Engineer's Representative for approval before installation.
 - Topsoil, where identified, was stripped and stored for re-use in the construction of the soft landscape works, where practicable.
- 2.3. Planting of New Shrubs
- New shrubs were planted as a soft landscape treatment shown in **Appendix A**.
- 2.4. Implementation of Tree Preservation and Planting
- Tree inspection for trees at nursery compounds was carried on a monthly basis and reports were submitted to the Engineer's Representative.
 - In any cases where trees are required to be felled during the construction phase, proposal and compensation scheme shall be submitted to relevant government department(s) for approval and implemented accordingly upon receipt of approval.
- 2.5. 13 numbers of trees were transplanted by Contract HY/2009/18 and handed over to CWB-CC at Nursery Site. The details of tree information are summarized in the table below:

Tree No.	Scientific Name	Chinese Name	Tree Height (m)	Health (Good, Fair, Poor, Dead)
AT001	<i>Hibiscus tiliaceus</i>	黃槿	5.0	Fair
AT003	<i>Delonix regia</i>	鳳凰木	8.0	Fair
AT004	<i>Delonix regia</i>	鳳凰木	9.0	Fair
AT005	<i>Delonix regia</i>	鳳凰木	5.0	Fair
AT006	<i>Alstonia scholaris</i>	糖膠樹	5.0	Fair
AT007	<i>Alstonia scholaris</i>	糖膠樹	4.0	Fair
AT008	<i>Delonix regia</i>	鳳凰木	5.5	Fair
AT009	<i>Delonix regia</i>	鳳凰木	4.0	Fair
AT016	<i>Ficus altissima</i>	高山榕	4.0	Fair
AT017	<i>Ficus altissima</i>	高山榕	4.0	Fair
AT022	<i>Bauhinia blakeana</i>	洋紫荊	5.0	Fair
T1758	<i>Bauhinia blakeana</i>	洋紫荊	7.0	Fair
T1854	<i>Adenanthera microsperma</i>	海紅豆	6.0	Fair

- 2.6. Another 13 numbers of trees transplant by HY/2009/15, handed over and planted by HY/2009/18 and then handed over to HY/2011/08 in the nursery site. The 13

trees were damaged by the Super Typhoon Mangkhut and compensated in the nursery site then transplanted on 1 April 2019 to Central Area. Their locations and information of compensated damaged retain trees is listed in **Appendix D** The details are summarized in the table below:

Tree No.	Scientific Name	Chinese Name	Tree Height (m)	Health (Good, Fair, Poor, Dead)
T1900	<i>Ficus virens</i>	大葉榕	9.0	Fair
T1902	<i>Ficus benjamina</i>	垂葉榕	4.0	Fair
T1903	<i>Ficus benjamina</i>	垂葉榕	5.0	Fair
T1904	<i>Ficus benjamina</i>	垂葉榕	12.0	Fair
T1905	<i>Macaranga tanarius</i>	血桐	5.0	Fair
T1906	<i>Celtis sinensis</i>	朴樹	4.0	Fair
T1907	<i>Ficus variegata</i>	青果榕	5.0	Fair
T1908	<i>Albizia lebbek</i>	大葉合歡	4.0	Fair
T1909	<i>Bombax ceiba</i>	木棉	4.0	Fair
T1910	<i>Ficus virens</i>	大葉榕	6.0	Fair
T1911	<i>Albizia lebbek</i>	大葉合歡	9.0	Poor
T1912	<i>Ficus benjamina</i>	垂葉榕	7.0	Fair
T2015	<i>Ficus microcarpa</i>	細葉榕	8.0	Fair

- 2.7. Further 10 numbers of trees on site were handed over from Contract HY/2009/18 for maintenance. The details are summarized in the table below

Tree No.	Scientific Name	Chinese Name	Tree Height (m)	Health (Good, Fair, Poor, Dead)
T1858R	<i>Ficus altissima</i>	高山榕	5.0	Fair
T1859R	<i>Ficus altissima</i>	高山榕	7.0	Fair
T1440R	<i>Acacia confusa</i>	臺灣相思	6.0	Poor
T1441R	<i>Acacia confusa</i>	臺灣相思	5.0	Poor
T1442R	<i>Ficus altissima</i>	高山榕	6.0	Fair
T1443R	<i>Ficus altissima</i>	高山榕	4.0	Fair
T1444R	<i>Ficus altissima</i>	高山榕	4.0	Fair
T1834	<i>Ficus benjamina</i>	垂葉榕	16.0	Fair
T1827R	<i>Roystonea regia</i>	王棕	6.0	Fair
T1829R	<i>Roystonea regia</i>	王棕	10.0	Fair

- 2.8. Total number of 134 trees are planted under HY/2011/08, the final location(s) and tree information of the newly planted trees are shown in **Appendix A**.
- 2.9. The Contractor is responsible for the maintenance for tree establishment for shrub, retained trees, transplanted trees planted at the final location and for an establishment period of 12 months. During the establishment period, the Contractor need to undertake necessary maintenance for the plant establishment including regular watering, fertilizing and carrying out pest control. The trees and shrubs

under CC will be handed over to the maintenance departments including Leisure and Cultural Services Department (LCSD), other contracts and IFC Management Co. Ltd under MTR Corporation Limited for future.

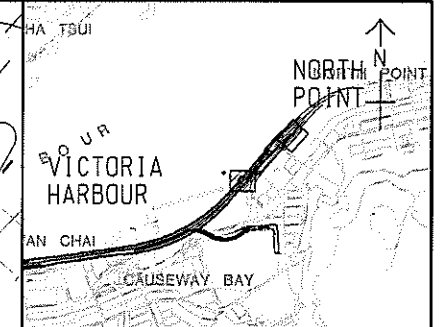
4. Conclusion

- 4.1. Both Hard landscape and Soft landscape including landscape features, aesthetic design of buildings, shrub and trees planting have been implemented by Contract CWB-CC mitigate the landscape and visual impacts from the Project, in accordance with Landscape and Visual Mitigation Measures OM1, OM2 and OM3.

Appendix A Trees and Shrubs Planting Plan

TREE PLANTING

CODE	BOTANICAL NAME	BOTANICAL NAME	SPECIFICATION (mm) HEIGHT(H) x SPREAD(S)	SPACING (mm)	NO./m ²	QUANTITY	COMMENT
TM	TERMINALIA MANTALY	細葉欖仁	HEAVY STANDARD	AS SHOWN	-	40	△



KEY PLAN
SCALE A3 : 50000

GENERAL NOTES FOR LANDSCAPE WORKS:

- GENERAL INFORMATION**
THESE DRAWING PACKAGES INTENDS TO SHOW SOFT LANDSCAPE TREATMENT ONLY. FOR SETTING OUT AND STRUCTURAL DESIGNS, REFER TO ENGINEERING PACKAGE. FOR CONSTRUCTION OF ALL ENGINEERING WORKS INCLUDING ROADWAYS, BRIDGE AND UTILITIES, REFER TO ENGINEERING DRAWING PACKAGE. THE CONTRACTOR SHALL REPORT TO THE ENGINEER IMMEDIATELY FOR ANY DISCREPANCY BETWEEN THE ENGINEERING AND LANDSCAPE DRAWINGS.
- DRAWING DIMENSIONS**
ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- GROUND PREPARATION WORKS**
GROUND PREPARATION WORKS SHALL BE CARRIED OUT TO ALL AREAS (EXCEPT SLOPE AREA) TO BE PLANTED AS SPECIFIED.
- SOIL MIX AND SOIL CONDITIONER**
SOIL MIX SHALL CONSIST OF FRAGILE COMPLETELY DECOMPOSED GRANITE AND SOIL CONDITIONER IN THE PROPORTIONS 3:1 BY VOLUME AND SHALL BE FREE OF DELETERIOUS MATERIALS AS SPECIFIED IN G.S. CLAUSE 3.30. SOIL-MIX AND G.S. CLAUSE 3.31 FOR SOIL CONDITIONER.
- MULCHING**
TREE PLANTING AND SHRUB AREAS SHALL BE MULCHED TO A DEPTH OF 50mm. FINISH LEVEL OF MULCH SHALL BE 25mm BELOW ADJACENT FINISHED SURFACES, AND COMPLY WITH G.S. CLAUSE 3.32.
- PLANT NAME**
BOTANICAL NAME SHALL TAKE PRECEDENCE TO ENGLISH AND CHINESE NAME.
- PLANTING PATTERN**
ALL PLANTS ARE TO BE PLANTED IN STAGGERED PATTERN AT SPACING INDICATED IN THE SCHEDULE. CLIMBING PLANTS SHALL BE PLANTED AGAINST SUPPORTING STRUCTURE.
- TREE PLANTING**
LOCATION OF TREES IS SHOWN ON THE DRAWING. SPACING INDICATED IN THE PLANT SCHEDULE IS INDICATIVE. TREES SHALL BE LOCATED TO AVOID ANY UNDERGROUND UTILITIES. ALL SOIL LEVELS SHALL BE SURVEYED AND VERIFIED PRIOR TO COMMENCEMENT OF PLANTING.
- STAKING**
BAMBOO STAKES SHALL BE USED FOR ALL TREES EXCEPT WHIPS AS SPECIFIED IN G.S. 3.36. TREE TRUNKS SHALL BE PROTECTED BY USING RUBBER HOUSE PROTECTIVE SLEEVING OR SIMILAR, AND SHALL BE LOOSENED TWICE A YEAR.
- DRAINAGE**
ALL PLANTER DRAINAGE DETAILS AND WEEPHOLES DETAILS SHALL REFER TO ENGINEERING DRAWING.
- UNDERGROUND UTILITIES**
UTILITY COVERS SERVICES SHOWN ON THE PLANS ARE INDICATIVE. EXACT LOCATIONS TO BE CONFIRMED BY THE ENGINEER. NO TREES SHALL BE PLANTED WITHIN 1m OF A MANHOLE OR DRAINAGE U-CHANNEL. THERE SHALL BE NO PLANTING WITHIN THE SPACE OF 1.5m AROUND THE COVER OF ANY HYDRANT VALVE OR THE COVER OF W.D.'S VALVES, OR WITHIN A DISTANCE OF 1m FROM ANY HYDRANT OUTLET. NO TREES SHALL BE PLANTED WITHIN 2m OF A ROAD KERB OR ENGINEERING STRUCTURE.
- WATERING**
THE CONTRACTOR SHALL PROVIDE ADEQUATE WATERING TO ALL PLANTED AREAS AS SPECIFIED IN G.S. 3.84-WATERING.

LEGEND:

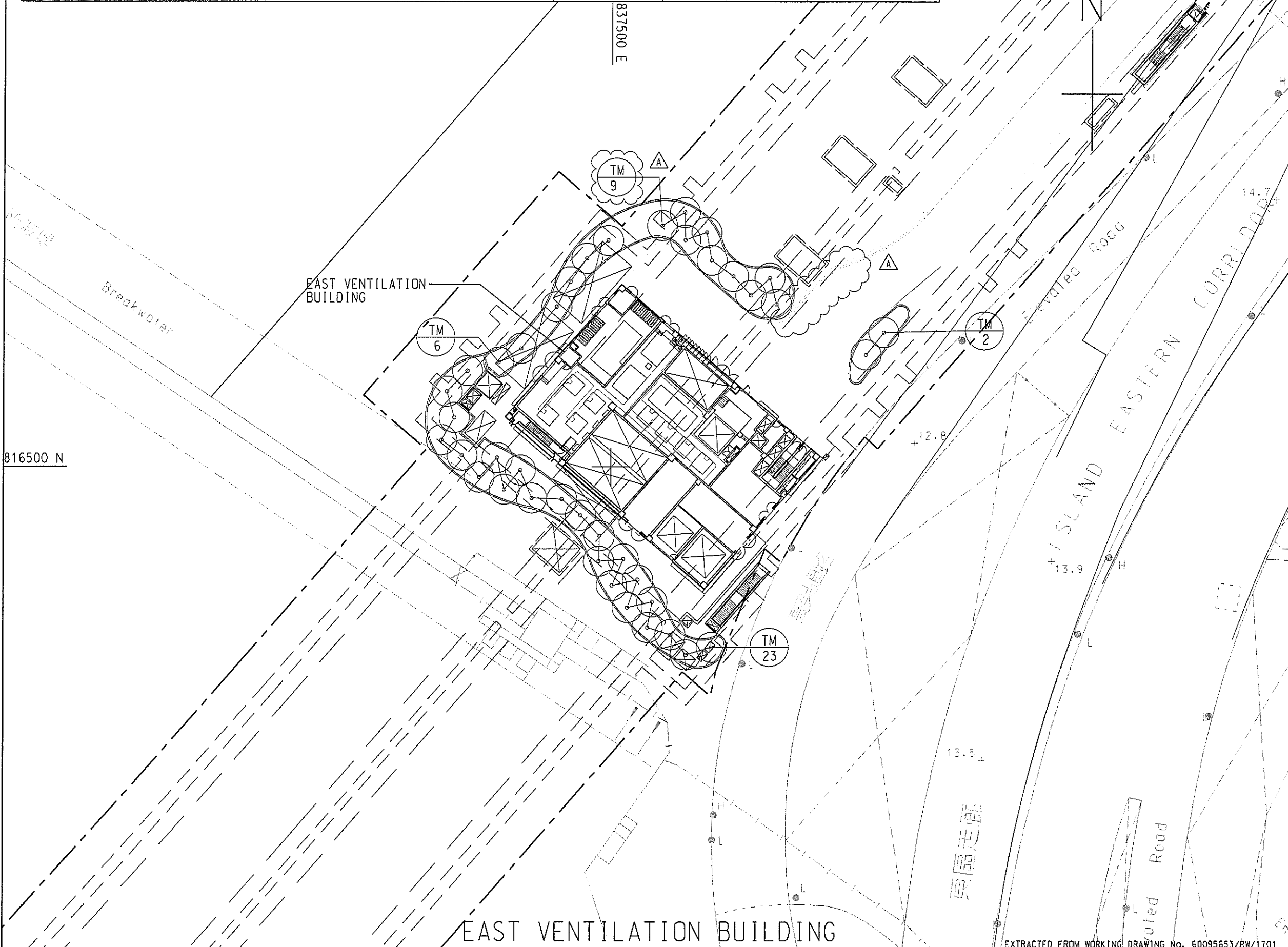
---	SITE BOUNDARY
▭	RECTANGLE TREE PLANTING
○	PROPOSED TREE PLANTING
○ TM 9	PLANT CODE QUANTITY

Rev.	Date	Description	Drawn	Prepared	Checked
A	27/01/17	FOR CONSTRUCTION	SCL	YN	EC
-	19/09/16	FOR CONSTRUCTION	SCL	YN	EC

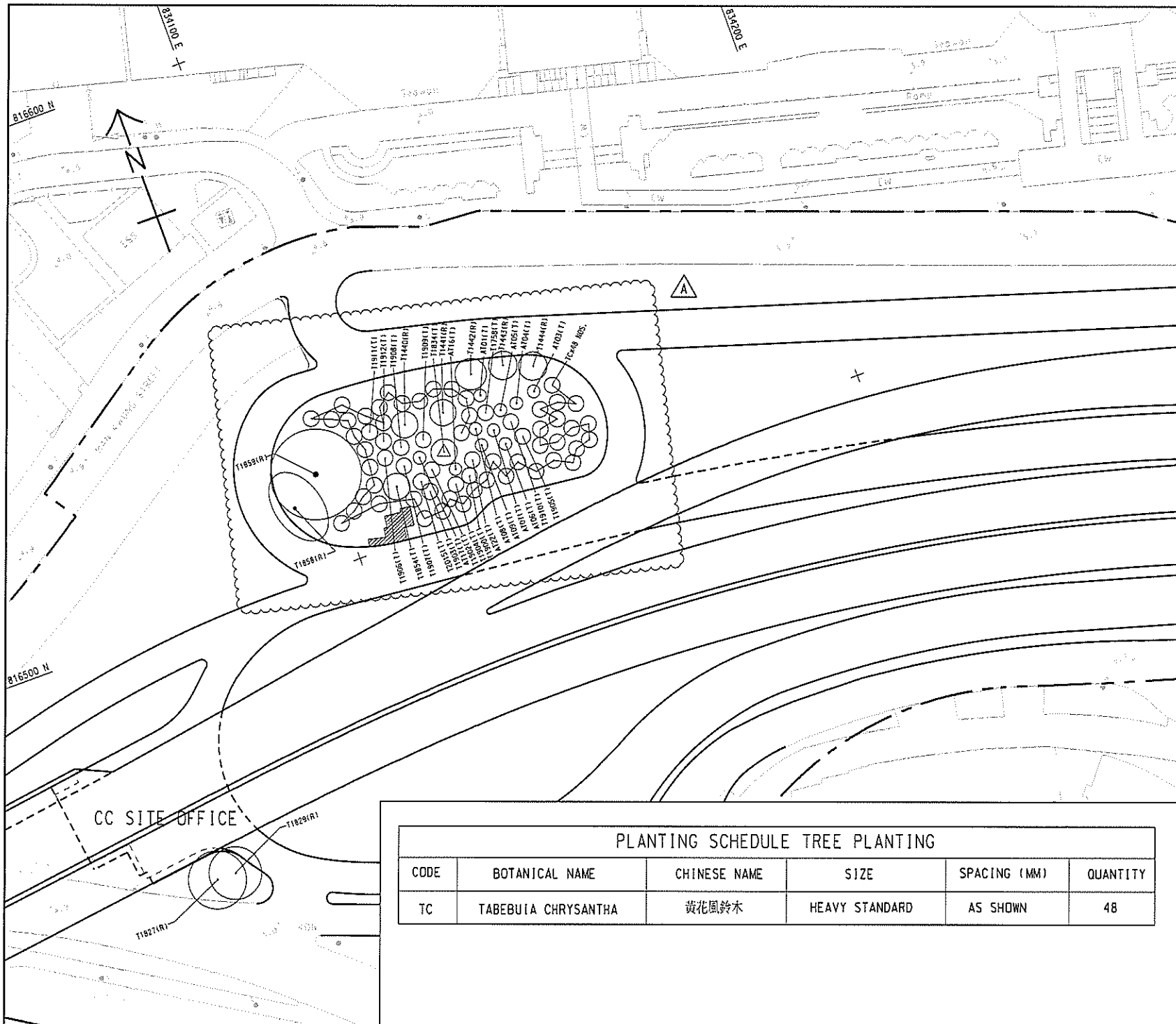
AECOM
CENTRAL - WAN CHAI BYPASS -
CONTRACT NO. HY2011/08
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND
WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

TITLE: TREE PLANTING PLAN
AT EAST VENTILATION BUILDING

SKETCH NO. 60095653/RW/SK0639A SCALE 1:500(1:50)



EXTRACTED FROM WORKING DRAWING No. 60095653/RW/1701



LEGEND:

- SITE BOUNDARY △ B
- T1441(R) EXISTING TREE TO BE RETAINED
- PROPOSED TREE PLANTING (48 NOS.)
- △ T1834(T) FINAL LOCATION OF TRANSPLANTED TREE BEFORE CONSTRUCTION WORKS (1 NO.)
- T1911(T) FINAL LOCATION OF TRANSPLANTED TREE AFTER CONSTRUCTION WORKS (26 NOS.)
- ▨ SATELLITE CONTROL POINT 2 WITH HARD PAVEMENT AREA △ B

B	29/11/18	REVISION OF TREE LOCATIONS FOR FACILIATING ENGINEERING WORKS	KYH	CWC	NC
A	10/11/18	FOR CONSTRUCTION	SYW	HYN	EY
-	22/06/16	FOR APPROVAL	SYW	MSC	EY
Rev.	Date	Description	Drawn	Prepared	Checked

PLANTING SCHEDULE TREE PLANTING					
CODE	BOTANICAL NAME	CHINESE NAME	SIZE	SPACING (MM)	QUANTITY
TC	TABEBUIA CHRYSANTHA	黄花风铃木	HEAVY STANDARD	AS SHOWN	48

AECOM

CENTRAL - WAN CHAI BYPASS AND IEC LINK
 CONTRACT NO. HY/2011/08
 TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND
 WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

TITLE:
 TREE PRESERVATION, PLANTING
 AND TRANSPLANTING

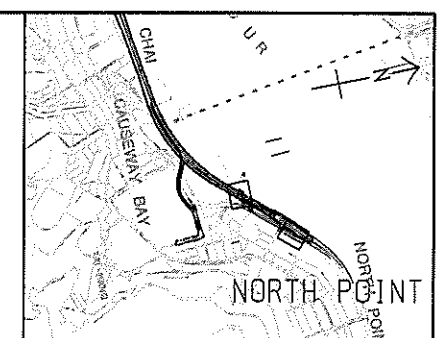
SKETCH NO. 60095653/RW/SK0567B SCALE 1:1000(44)

TREE PLANTING

CODE	BOTANICAL NAME	BOTANICAL NAME	SPECIFICATION (mm) HEIGHT(H) x SPREAD(S)	SPACING (mm)	NO./m ²	QUANTITY	COMMENT
BB	BAUHINIA BLAKEANA	洋紫荊	HEAVY STANDARD TREE	AS SHOWN	-	2	

PALM PLANTING

CODE	BOTANICAL NAME	BOTANICAL NAME	SPECIFICATION (mm) HEIGHT(H) x SPREAD(S)	SPACING (mm)	NO./m ²	QUANTITY	COMMENT
RE	RHAPIS EXCELSA	棕竹	1800 (H) X 600 (S)	500	4.6	90	PLANT ALL SPECIES IN A STAGGERED PATTERN



KEY PLAN
SCALE AS : 50000

GENERAL NOTES FOR LANDSCAPE WORKS:

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- SOIL MIX AND SOIL CONDITIONER
SOIL MIX SHALL CONSIST OF FRIABLE COMPLETELY DECOMPOSED GRANITE AND SOIL CONDITIONER IN THE PROPORTIONS 3:1 BY VOLUME AND SHALL BE FREE OF DELETERIOUS MATERIALS AS SPECIFIED IN G.S. CLAUSE 3.30 - SOIL-MIX AND G.S. CLAUSE 3.31 FOR SOIL CONDITIONER.
- MULCHING
TREE PLANTING AND SHRUB AREAS SHALL BE MULCHED TO A DEPTH OF 50mm. FINISH LEVEL OF MULCH SHALL BE 25mm BELOW ADJACENT FINISHED SURFACES, AND COMPLY WITH G.S. CLAUSE 3.32.
- PLANT NAME
BOTANICAL NAME SHALL TAKE PRECEDENCE TO ENGLISH AND CHINESE NAME.
- PLANTING PATTERN
ALL PLANTS ARE TO BE PLANTED IN STAGGERED PATTERN AT SPACING INDICATED IN THE SCHEDULE. CLIMBING PLANTS SHALL BE PLANTED AGAINST SUPPORTING STRUCTURE.
- TREE PLANTING
LOCATION OF TREES IS SHOWN ON THE DRAWING. SPACING INDICATED IN THE PLANT SCHEDULE IS INDICATIVE. TREES SHALL BE LOCATED TO AVOID ANY UNDERGROUND UTILITIES. ALL SOIL LEVELS SHALL BE SURVEYED AND VERIFIED PRIOR TO COMMENCEMENT OF PLANTING.
- STAKING
BAMBOO STAKES SHALL BE USED FOR ALL TREES EXCEPT WHIPS AS SPECIFIED IN G.S. 3.36. TREE TRUNKS SHALL BE PROTECTED BY USING RUBBER HOUSE PROTECTIVE SLEEVING OR SIMILAR, AND SHALL BE LOOSEND TWICE A YEAR.
- DRAINAGE
ALL PLANTER DRAINAGE DETAILS AND WEEPHOLES DETAILS SHALL REFER TO ENGINEERING DRAWING.
- UNDERGROUND UTILITIES
UTILITY COVERS SERVICES SHOWN ON THE PLANS ARE INDICATIVE. EXACT LOCATIONS TO BE CONFIRMED BY THE ENGINEER. NO TREES SHALL BE PLANTED WITHIN 1m OF A MANHOLE OR DRAINAGE U-CHANNEL. THERE SHALL BE NO PLANTING WITHIN THE SPACE OF 1.5m AROUND THE COVER OF ANY HYDRANT VALVE OR THE COVER OF WSD'S VALVES, OR WITHIN A DISTANCE OF 1m FROM ANY HYDRANT OUTFLET. TREES SHALL BE PLANTED WITHIN 2m OF A ROAD KERB OR ENGINEERING STRUCTURE.
- WATERING
THE CONTRACTOR SHALL PROVIDE ADEQUATE WATERING TO ALL PLANTED AREAS AS SPECIFIED IN G.S. 3.84-WATERING.

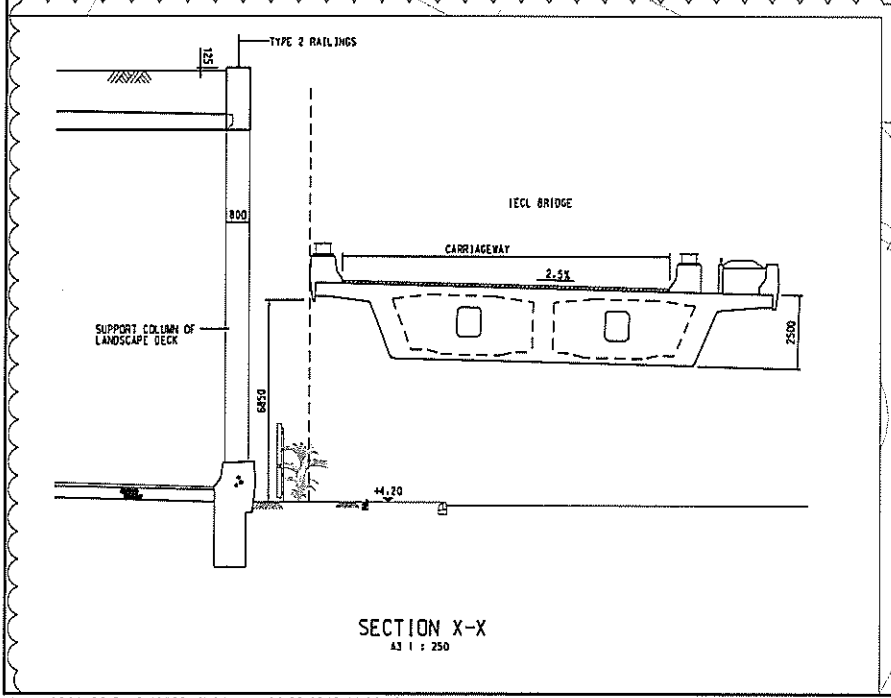
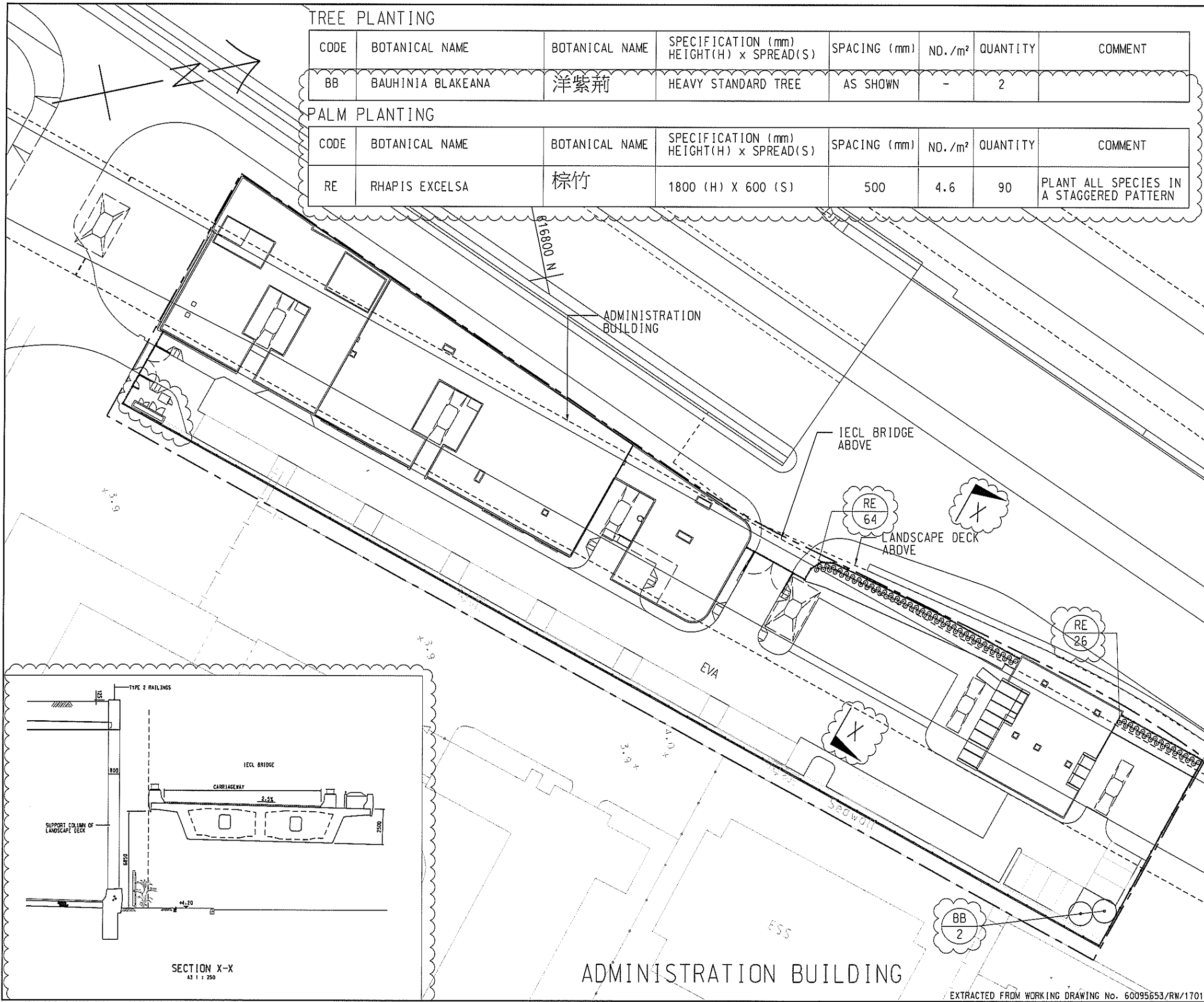
- LEGEND:
- SITE BOUNDARY
 - PROPOSED TREE PLANTING
 - BB-2 PLANT CODE QUANTITY

Rev.	Date	Description	Drawn	Prepared	Checked
-	11/2/13	FOR CONSTRUCTION	SCL	MXMC	YN

AECOM
CENTRAL - WAN CHAI BYPASS -
CONTRACT NO. HY201108
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND
WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

TITLE: TREE PLANTING PLAN
AT ADMINISTRATION BUILDING

SKETCH NO. 60095653/RW/SK1530 SCALE 1:500(43)



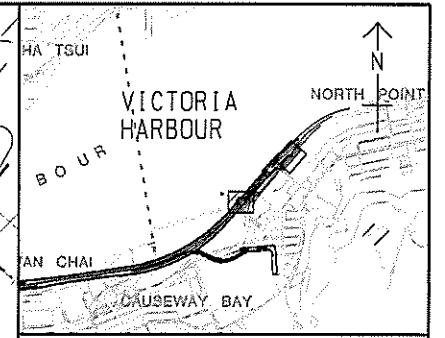
SECTION X-X
AS 1 : 250

ADMINISTRATION BUILDING

EXTRACTED FROM WORKING DRAWING No. 60095653/RW/1701

SHRUB PLANTING

CODE	BOTANICAL NAME	BOTANICAL NAME	SPECIFICATION (mm) HEIGHT(H) x SPREAD(S)	SPACING (mm)	NO./m ²	QUANTITY	COMMENT
Drq	DURANTA REPENS 'GOLDEN'	金連翹	500(H)x500(S)	400	7.25	2120	PLANT ALL SPECIES IN A STAGGERED PATTERN
Fmg	FICUS MICROCARPA 'GOLDEN LEAF'	黃榕	500(H)x500(S)	400	7.25	1999	

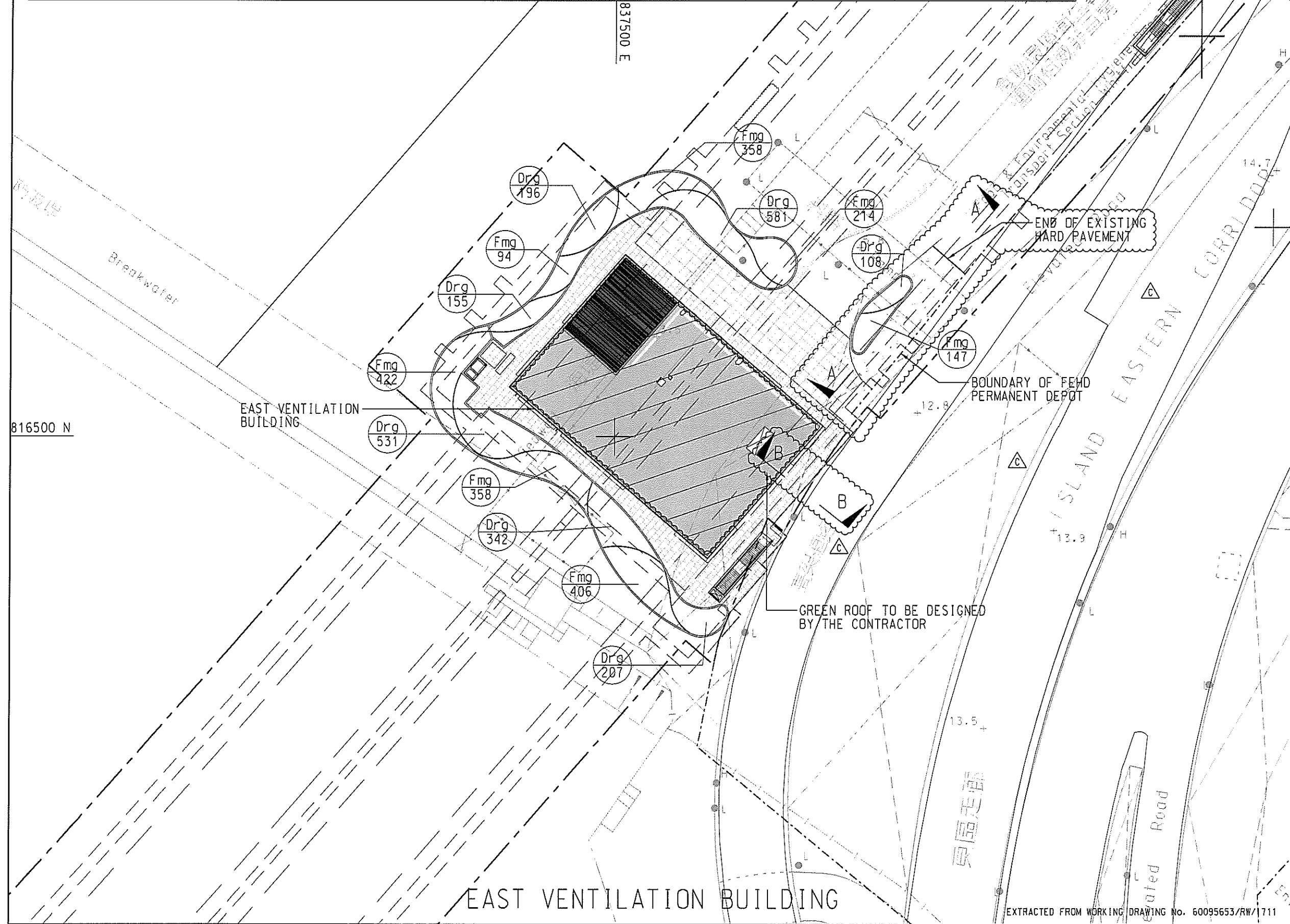


KEY PLAN
SCALE A3 : 50000

- NOTES:
- GENERAL NOTES REFERS TO DRAWING NO. 60095653/RW/1701.
 - DETAILS OF K1 KERB SHALL BE REFER TO HYD STANDARD DRAWING H1118.
 - PAVING BLOCK REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING H1103E.
 - THE EXTENT OF PAVEMENT SHOWN IN THIS DRAWING IS INDICATIVE ONLY. THE EXACT EXTENT AND DETAILS SHALL BE SUBMITTED BY THE CONTRACTOR AND AGREED ON SITE WITH THE ENGINEER.
 - SECTION DETAILS SHALL BE REFER TO SKETCH NO. 60095653/RW/SK1205.

LEGEND:

- SITE BOUNDARY
- PROPOSED TREE PLANTING
- FB / 7 PLANT CODE QUANTITY
- ▨ GREEN ROOF TO BE DESIGNED BY THE CONTRACTOR
- ▨ PAVING BLOCK
- ▨ CT23 ARTIFICIAL GRANITE TILES
- ▨ HARD PAVEMENT



Rev.	Date	Description	Drawn	Prepared	Checked
C	06/06/18	FOR CONSTRUCTION	KYH	KTH	CMC
B	14/12/11	FOR CONSTRUCTION	SCL	CMC	TL
A	27/04/11	FOR CONSTRUCTION	SCL	YN	EC
-	21/08/18	FOR CONSTRUCTION	SCL	YN	EC

Rev. **AECOM**

CENTRAL - WAN CHAI BYPASS -
CONTRACT NO. HY/2011/08
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND
WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

TITLE:
PLAN FOR SHRUB PLANTING
AT EAST VENTILATION BUILDING

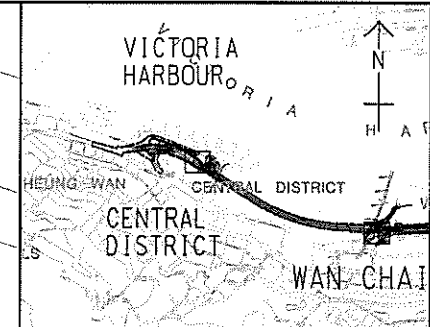
SKETCH NO. 60095653/RW/SK0640C SCALE 1:500(43)

SHRUB PLANTING

CODE	BOTANICAL NAME	BOTANICAL NAME	SPECIFICATION (mm) HEIGHT(H) x SPREAD(S)	SPACING (mm)	NO. /m2	QUANTITY	COMMENT
Drq	DURANTA REPENS 'GOLDEN'	金連翹	500(H)x500(S)	400	7.25	426	PLANT ALL SPECIES IN A STAGGERED PATTERN
Cov	CODIAEUM VARIEGATUM	洒金榕	400(H)x400(S)	300	12.54	715	

GROUND COVER PLANTING

Asd	ASPARAGUS DENSIFLORUS 'MYERSII'	狐尾天冬	300(H)x250(S)	200	29	302	PLANT ALL SPECIES IN A STAGGERED PATTERN
Ass	ASPARAGUS SPRENGEN	天冬	200(H)x200(S)	200	29	1717	
Fip	FICUS PUMILA	薜荔	3 SHOOTS PER PLANT. EACH SHOOT 1000MM LONG	200	12.54	80	PLANT ALL SPECIES IN AN ALTERNATE PATTERN ALONG THE WALL
Pah	PARTHENOISSUS HIMALAYANA	爬牆虎		200	12.54	80	
Loj	LONICERA JAPONICA	金銀花	200	12.54	80		



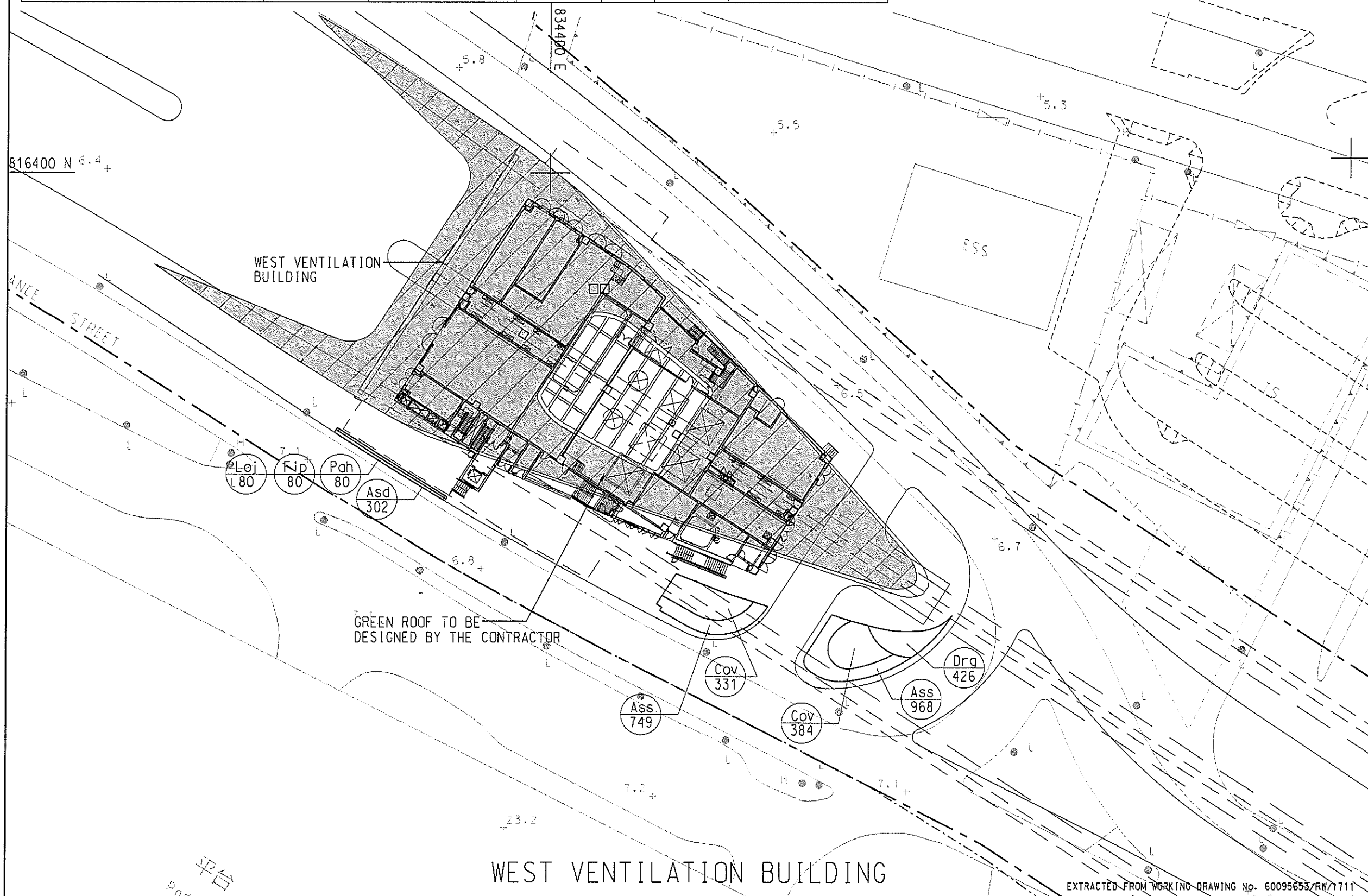
KEY PLAN
SCALE A3 : 50000

NOTES:

- GENERAL NOTES REFERS TO DRAWING NO. 60095653/RW/1701.
- DETAILS OF K1 KERB SHALL BE REFER TO HYD STANDARD DRAWING H1118.
- PAVING BLOCK REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING H1103E.
- THE EXTENT OF PAVEMENT SHOWN IN THIS DRAWING IS INDICATIVE ONLY. THE EXACT EXTENT AND DETAILS SHALL BE SUBMITTED BY THE CONTRACTOR AND AGREED ON SITE WITH THE ENGINEER.

LEGEND:

- SITE BOUNDARY
- PROPOSED TREE PLANTING
- (FB) PLANT CODE QUANTITY
- ▨ GREEN ROOF TO BE DESIGNED BY THE CONTRACTOR



Rev.	Date	Description	Drawn	Prepared	Checked
-	03/06/16	FOR CONSTRUCTION	SCL	KT	YN

AECOM

CENTRAL - WAN CHAI BYPASS -
CONTRACT NO. HY2011/08
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND
WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

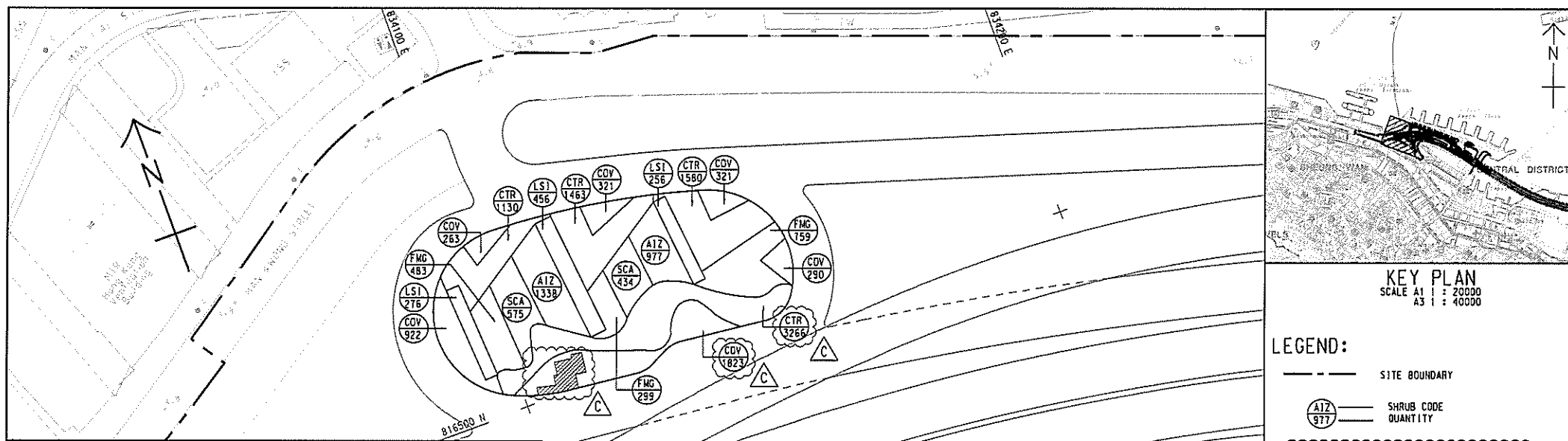
TITLE:
PLAN FOR SHRUB PLANTING
AT WEST VENTILATION BUILDINGS

SKETCH NO. 60095653/RW/SK0535

SCALE 1:1500(A3)

EXTRACTED FROM WORKING DRAWING No. 60095653/RW/1711

WEST VENTILATION BUILDING



GENERAL NOTES FOR LANDSCAPE WORKS:

- GENERAL INFORMATION**
THESE DRAWING PACKAGES INTEND TO SHOW SOFT LANDSCAPE TREATMENT ONLY. FOR SETTING OUT AND STRUCTURAL DESIGNS, REFER TO ENGINEERING PACKAGE. FOR CONSTRUCTION OF ALL ENGINEERING WORKS INCLUDING ROADWAYS, BRIDGE AND UTILITIES, REFER TO ENGINEERING DRAWING PACKAGE. THE CONTRACTOR SHALL REPORT TO THE SUPERVISING OFFICER IMMEDIATELY FOR ANY DISCREPANCY BETWEEN THE ENGINEERING AND LANDSCAPE DRAWINGS.
- DRAWING DIMENSIONS**
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
- EXISTING TREES/VEGETATION**
THE CONTRACTOR SHALL PROTECT ALL TREES TO BE RETAINED ON SITE AS SPECIFIED IN G.S. SECTION 2.6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTATING EXISTING/RETAINED VEGETATION AFFECTED BY THE CONSTRUCTION WORKS.
- TREE FELLING**
NO TREES SHALL BE FELLED OR REMOVED WITHOUT THE OLD APPROVAL.
- GROUND PREPARATION WORKS**
GROUND PREPARATION WORKS SHALL BE CARRIED OUT TO ALL AREAS (EXCEPT SLOPE AREA) TO BE PLANTED AS SPECIFIED.
- SOIL MIX AND SOIL CONDITIONER**
SOIL MIX SHALL CONSIST OF FRIABLE COMPLETELY DECOMPOSED GRANITE AND SOIL CONDITIONER IN THE PROPORTIONS 3:1 BY VOLUME AND SHALL BE FREE OF DELETERIOUS MATERIALS AS SPECIFIED IN G.S. CLAUSE 3.3.5. SOIL MIX AND G.S. CLAUSE 3.3.1 FOR SOIL CONDITIONER.
- MULCHING**
TREE PLANTING AND SHRUB PLANTING SHALL BE MULCHED TO 100MM BELOW THE FINISHED LEVEL OF MULCH SHALL BE 100MM BELOW THE FINISHED SURFACES, AND COMPLY WITH G.S. CLAUSE 3.3.2-MULCH.
- PLANT NAME**
BOTANICAL NAME SHALL TAKE PRECEDENCE TO ENGLISH AND CHINESE NAME.
- PLANTING PATTERN**
ALL PLANTS ARE TO BE PLANTED IN STAGGERED PATTERN AT SPACING INDICATED IN THE SCHEDULE. CLIMBING PLANTS SHALL BE PLANTED AGAINST SUPPORTING STRUCTURE.
- TREE PLANTING**
LOCATION OF TREES IS SHOWN ON THE DRAWING. SPACING INDICATED IN THE PLANT SCHEDULE IS INDICATIVE. TREES SHALL BE LOCATED TO AVOID ANY UNDERGROUND UTILITIES. ALL SOIL LEVELS SHALL BE SURVEYED AND VERIFIED PRIOR TO COMMENCEMENT OF PLANTING.
- STAKING**
BAMBOO STAKES SHALL BE USED FOR ALL TREES EXCEPT WHIPS AS SPECIFIED IN G.S. 3.3.6. TREE TRUNKS SHALL BE PROTECTED BY USING RUBBER HOSE PROTECTIVE SLEEVING OR SIMILAR, AND SHALL BE LOOSENEED TWICE A YEAR.
- DRAINAGE**
ALL PLANTER DRAINAGE DETAILS AND WEEPHOLES DETAILS SHOULD REFER TO ENGINEER DRAWING.
- UNDERGROUND UTILITIES**
UTILITY COVERS SERVICES SHOWN ON THE PLANTS ARE INDICATIVE. EXACT LOCATIONS TO BE CONFIRMED BY THE ENGINEER. NO TREES SHALL BE PLANTED WITHIN 1M OF A MANHOLE OR DRAINAGE D-COMPLET. THERE SHALL BE NO PLANTING WITHIN THE SPACE OF 1.0M AROUND THE COVER OF ANY HYDRANT VALVE OR THE COVER OF WSP'S VALVES, OR WITHIN A DISTANCE OF 1M FROM ANY HYDRANT OUTLET. NO TREES SHALL BE PLANTED WITHIN 2M OF A ROAD KERB OR ENGINEERING STRUCTURE.
- WATERING**
THE CONTRACTOR SHALL PROVIDE ADEQUATE WATERING TO ALL PLANTED AREAS AS SPECIFIED IN G.S. 3.4.4-WATERING.

PLANTING SCHEDULE							
CODE	BOTANICAL NAME	CHINESE NAME	SPECIFICATION (mm) HEIGHT(H)xSPREAD	SPACING (mm)	NO./m ²	QUANTITY	COMMENT
SHRUB PLANTING							
AIZ	ALPYNIA ZERUMBET'VARIEGATA'	花葉珊瑚	400(H)x400(S)	300	12.54	2315	PLANT ALL SPECIES IN A STAGGERED PATTERN
COV	CODIAEUM VARIEGATUM	洒金柏	400(H)x400(S)	300	12.54	3940	
CTR	CORDYLINE TERMINALIS'RUBRA'	朱蕉	500(H)x400(S)	300	12.54	7439	
FNG	FIGUS MICROCARPA'GOLDEN LEAF'	黃金榕	500(H)x500(S)	400	7.25	1541	
LSI	LIGUSTRUM ISHENSE	山胡椒	500(H)x500(S)	400	7.25	988	
SCA	SCHEFFLERA ARBORICOLA'VARIEGATA'	花葉大葉	500(H)x500(S)	400	7.25	1009	

KEY PLAN
SCALE A1 1 : 20000
A3 1 : 40000

LEGEND:

- SITE BOUNDARY
- (AIZ 977) SHRUB CODE QUANTITY
- ▨ SATELLITE CONTROL POINT 2 WITH HARD PAVEMENT AREA

Rev.	Date	Description	Drawn	Prepared	Checked
C	29/11/18	REVISION OF SHRUBS BASED ON THE EXTENT OF SATELLITE CONTROL POINT 2	KYH	CWC	NC
B	20/08/18	FOR CONSTRUCTION	KYH	MCMK	RY
A	10/11/16	FOR CONSTRUCTION	SYW	HYN	EY
-	15/06/16	FOR APPROVAL	SYW	MSC	EY

AECOM

CENTRAL - WAN CHAI BYPASS AND IEC LINK
CONTRACT NO. HY/2011/08
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

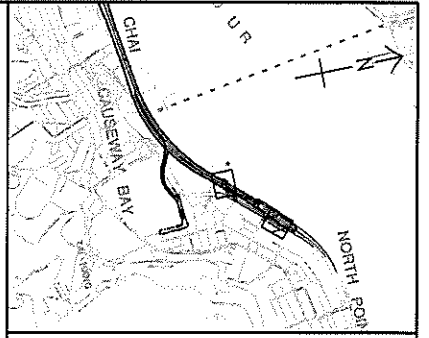
TITLE:
SHRUB PLANTING PLAN

SKETCH NO. 60095653/RW/SK0551B SCALE 1:1000(1:4)

T:\HY_2011_08\SK0551C.dgn 30/11/2018 16:43:21

SHRUB PLANTING

CODE	BOTANICAL NAME	BOTANICAL NAME	SPECIFICATION (mm) HEIGHT(H) x SPREAD(S)	SPACING (mm)	NO./m ²	QUANTITY	COMMENT
Dev	DIANELLA ENSIFOLIA 'VARIEGATA'	花葉山菅蘭	200(H)x300(S)	300	12.54	600	PLANT ALL SPECIES IN A STAGGERED PATTERN
His	HIBISCUS ROSA-SINENSIS	大紅花	500(H)x500(S)	400	7.25	266	
Hyl	HYMENOCELLIS LITTORALIS	蜘蛛蘭	350(H)x300(S)	300	12.54	80	
Scd	SCHEFFLERA ARBORICOLA 'VARIEGATA'	花葉八葉	500(H)x500(S)	400	7.25	1500	



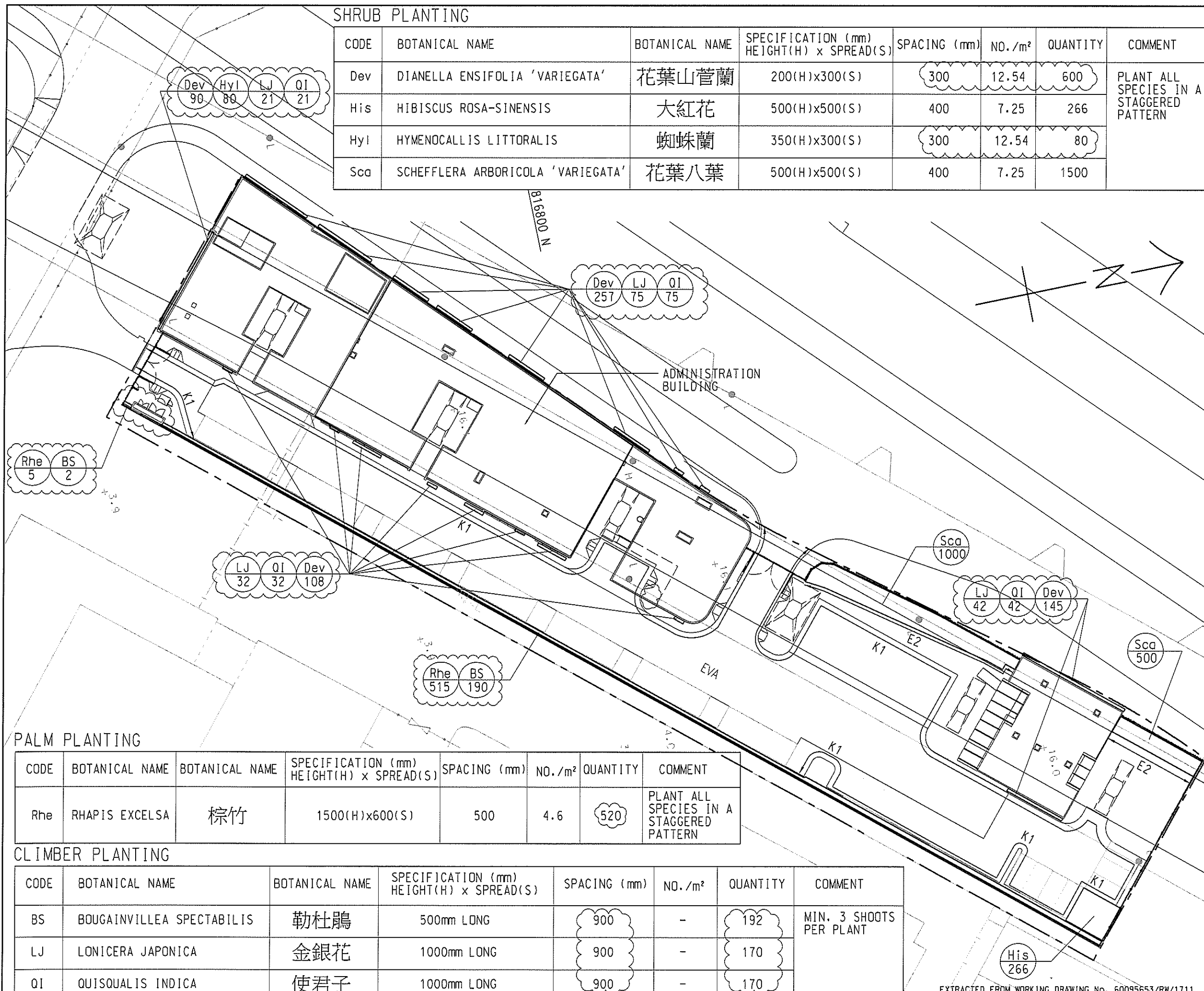
KEY PLAN
SCALE A3 : 5000

NOTES:

- GENERAL NOTES REFERS TO DRAWING NO. 60095653/RW/1701.
- DETAILS OF K1 AND E2 KERB SHALL BE REFER TO HYD STANDARD DRAWING H1118.
- PAVING BLOCK REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING H1103E.
- THE EXTENT OF PAVEMENT SHOWN IN THIS DRAWING IS INDICATIVE ONLY. THE EXACT EXTENT AND DETAILS SHALL BE SUBMITTED BY THE CONTRACTOR AND AGREED ON SITE WITH THE ENGINEER.

LEGEND:

- - - - - SITE BOUNDARY
- BS 190 PLANT CODE QUANTITY
- K1 K1 KERB
- E2 E2 KERB



PALM PLANTING

CODE	BOTANICAL NAME	BOTANICAL NAME	SPECIFICATION (mm) HEIGHT(H) x SPREAD(S)	SPACING (mm)	NO./m ²	QUANTITY	COMMENT
Rhe	RHAPIS EXCELSA	棕竹	1500(H)x600(S)	500	4.6	520	PLANT ALL SPECIES IN A STAGGERED PATTERN

CLIMBER PLANTING

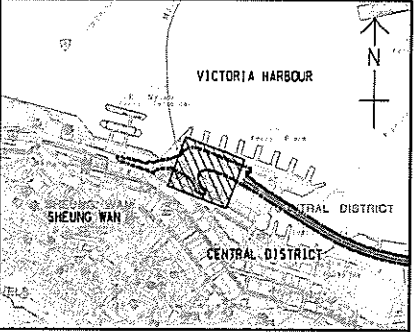
CODE	BOTANICAL NAME	BOTANICAL NAME	SPECIFICATION (mm) HEIGHT(H) x SPREAD(S)	SPACING (mm)	NO./m ²	QUANTITY	COMMENT
BS	BOUGAINVILLEA SPECTABILIS	勒杜鵑	500mm LONG	900	-	192	MIN. 3 SHOOTS PER PLANT
LJ	LONICERA JAPONICA	金銀花	1000mm LONG	900	-	170	
QI	QUISQUALIS INDICA	使君子	1000mm LONG	900	-	170	

EXTRACTED FROM WORKING DRAWING No. 60095653/RW/1711

- 12/03/19	FOR CONSTRUCTION	SCL	MCBX	YN
Date	Description	Drawn	Prepared	Checked
AECOM				
CENTRAL - WAN CHAI BYPASS - CONTRACT NO. HY2011/08 TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING				
TITLE: PLAN FOR SHRUB PLANTING AT ADMINISTRATION BUILDING				
SKETCH NO.	60095653/RW/SK1531	SCALE	1:1500(A3)	

SHRUB PLANTING SCHEDULE

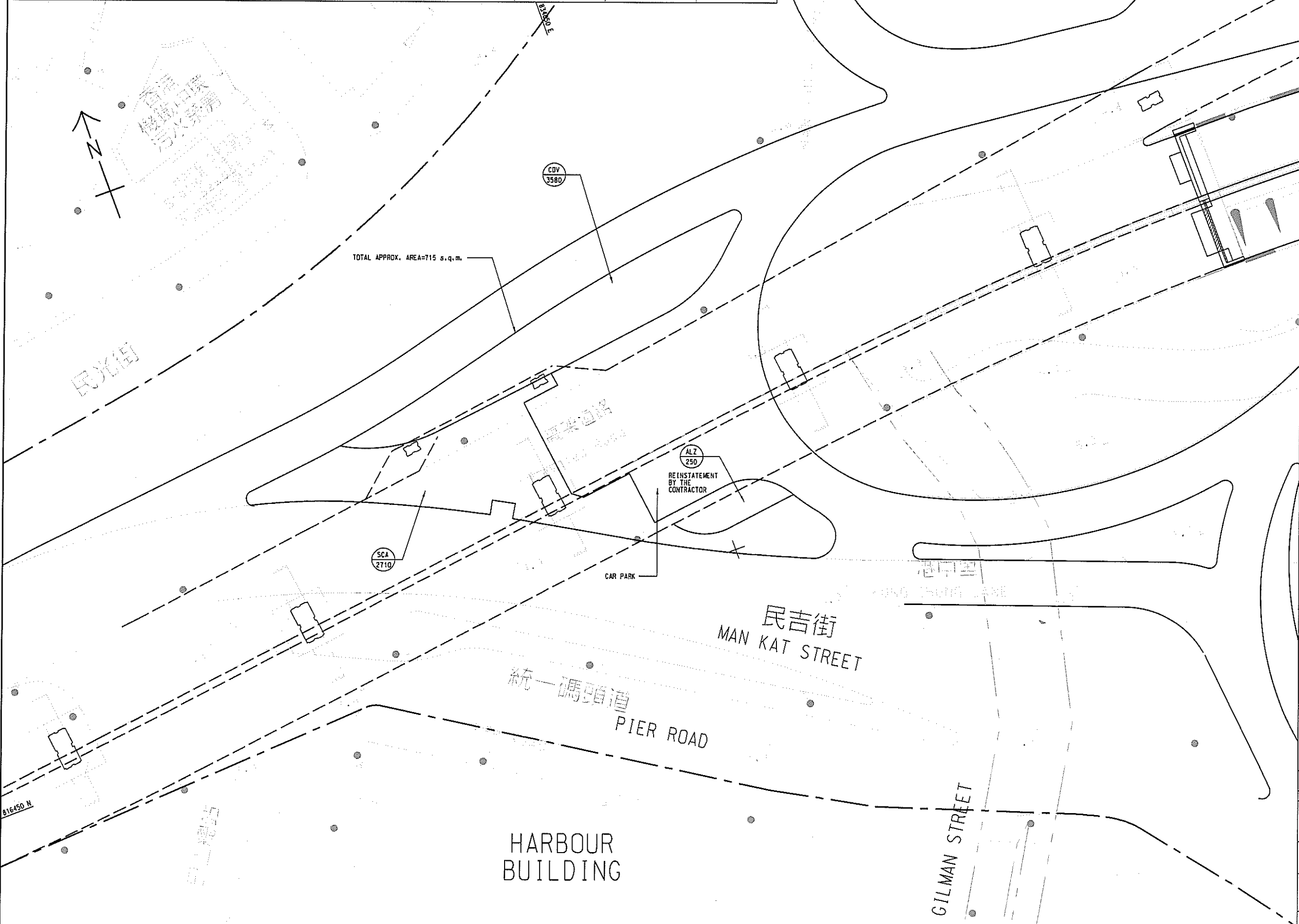
CODE	BOTANICAL NAME	CHINESE NAME	SPECIFICATION (mm) HEIGHT (H) X SPREAD (S)	SPACING (mm)	QUANTITY	REMARKS	COMMENT
SHRUB PLANTING							
ALZ	ALPINIA ZERUMBET 'VARIEGATA'	花葉山薑	400 (H) X 400 (S)	400	250	REINSTATEMENT BY THE CONTRACTOR	PLANT ALL SPECIES IN A STAGGERED PATTERN
CDV	CORDIAEUM VARIEGATUM	洒金榕	400 (H) X 400 (S)	300	3580	NEW SHRUB PLANTING	
SCA	SCHEFFLERA ARBORICOLA 'VARIEGATA'	花葉八葉	500 (H) X 500 (S)	400	2710		



KEY PLAN
SCALE A1 : 20000
A3 : 40000

NOTE:
1. ARRANGEMENT OF SHRUB PLANTING AT THE REINSTATED PLANTER WAS AGREED WITH LCSD DURING THE SITE MEETING ON 23 JAN 2018.

LEGEND:
--- SITE BOUNDARY
SCA 2710 SHRUB CODE QUANTITY



17/07/18	FOR INFORMATION	KYH	CWC	YN	
Rev.	Date	Description	Drawn	Prepared	Checked

AECOM

CENTRAL - WAN CHAI BYPASS -
CONTRACT NO. HY/2011/08
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND
WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

TITLE:
SHRUB PLANTING PLAN OF PLANTER
NEXT TO MAN KAT STREET

SKETCH NO. 60095653/RW/SK1650 SCALE 1:500(A3)

PLANTING SCHEDULE

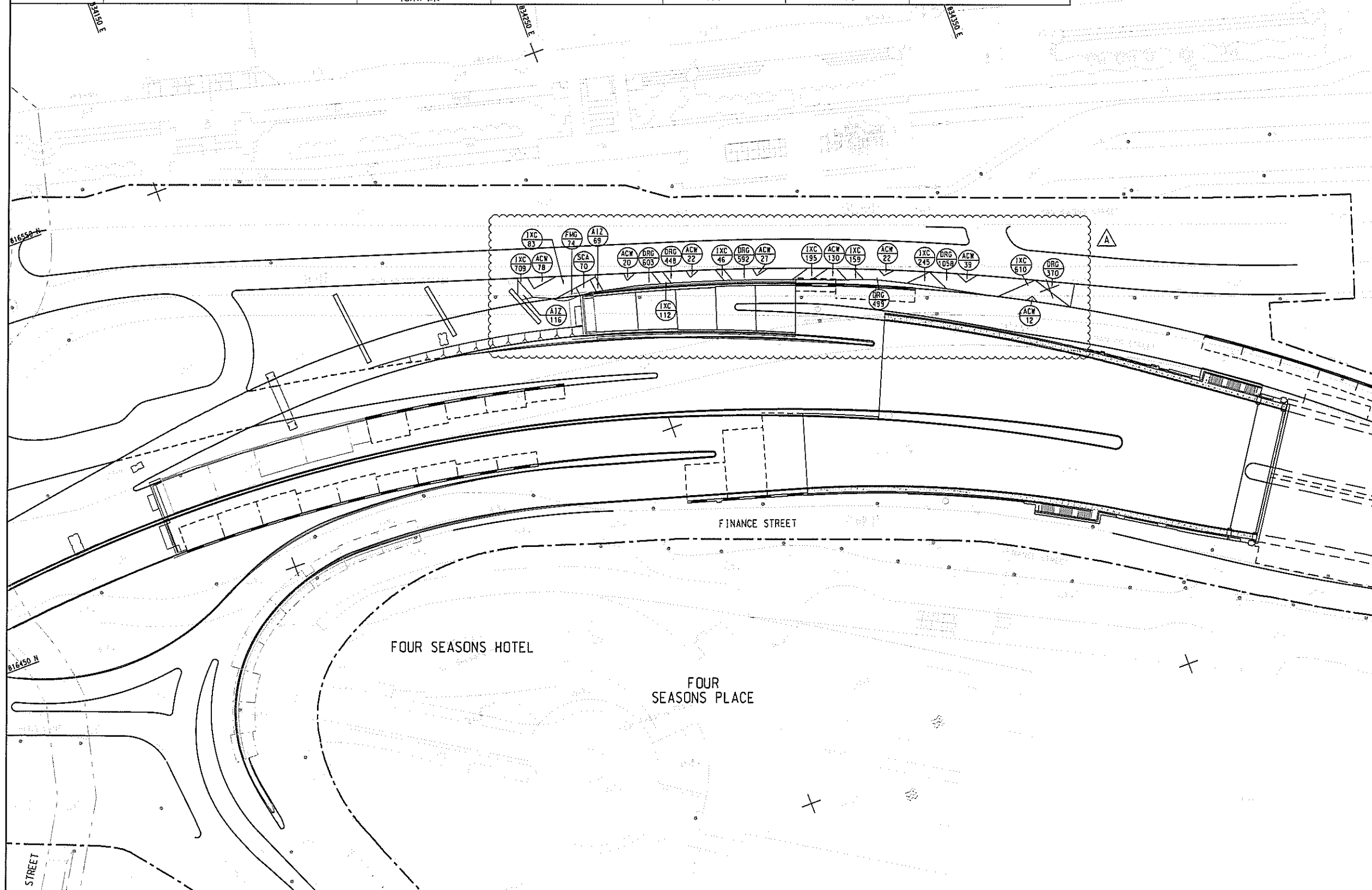
CODE	BOTANICAL NAME	CHINESE NAME	SPECIFICATION(mm) HEIGHT(H)xSPREAD	SPACING (mm)	QUANTITY	COMMENT
SHRUB PLANTING						
ACW	ACALYPHA WILKESIANA 'TRICOLOR'	五彩大葉紅桑	500(H)x500(S)	400	350	PLANT ALL SPECIES IN A STAGGERED PATTERN
AIZ	ALPINIA ZERUMBET 'VARIEGATA'	花葉紫山薑	400(H)x400(S)	300	185	
DRG	DURANTA REPENS 'GOLDEN'	金連翹	400(H)x400(S)	300	3570	
FMG	FICUS MICROCARPA 'GOLDEN LEAF'	黃榕	500(H)x500(S)	400	74	
IXC	LXORA COCCINEA 'LUTEA'	黃花龍船花	400(H)x400(S)	300	2159 ^A	
SCA	SHEFFLERA ARBORICOLA 'VARIEGATA'	花葉八葉	500(H)x500(S)	400	70	

NOTE:

- GENERAL NOTES REFER TO DRAWING NO. 60095653/RW/1701.
- MULCHING IS NOT REQUIRED.
- ALL PLANTING AREAS ARE BACKFILLED WITH 0.6m COMPACTED DEPTH OF SOIL MIX.

LEGEND:

- SITE BOUNDARY
- SHRUB CODE
- △ QUANTITY



Rev.	Date	Description	Drawn	Prepared	Checked
A	21/03/19	FOR CONSTRUCTION	KYH	CWC	NC
-	21/08/18	FOR CONSTRUCTION	KYH	MCWK	RY

AECOM

CENTRAL - WAN CHAI BYPASS -
CONTRACT NO. HY/2011/08
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND
WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

TITLE:
COMPENSATORY SHRUB PLANTING PLAN
AT PLANTER ALONG MAN PO STREET

SKETCH NO. 60095653/RW/SK1300A SCALE 1:1000(1:3)

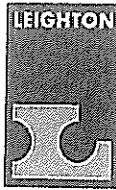
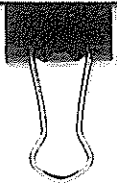
Tree Information

Tree No.	Scientific Name	Chinese Name	Tree Height (m)	Diameter at Breast Height (mm)	Tree Crown Spread (m)	Health (Good, Fair, Poor, Dead)	Temporary Holding Nursery	Final Transplanting Location
A1001	<i>Hibiscus thibaeus</i>	黃槿	5	95	2.5	Fair	Toyo Nursery	Central
A1003	<i>Delonix regia</i>	鳳凰木	8	150	4	Fair	Toyo Nursery	Central
A1004	<i>Delonix regia</i>	鳳凰木	9	140	4.5	Fair	Toyo Nursery	Central
A1005	<i>Delonix regia</i>	鳳凰木	5	160	3	Fair	Toyo Nursery	Central
A1006	<i>Alstonia scholaris</i>	樹膠樹	5	150	3	Fair	Toyo Nursery	Central
A1007	<i>Alstonia scholaris</i>	樹膠樹	4	110	2.5	Fair	Toyo Nursery	Central
A1008	<i>Delonix regia</i>	鳳凰木	5.5	160	5	Fair	Toyo Nursery	Central
A1009	<i>Delonix regia</i>	鳳凰木	4	170	3	Fair	Toyo Nursery	Central
A1016	<i>Ficus altissima</i>	高山榕	4	200	4	Fair	Toyo Nursery	Central
A1017	<i>Ficus altissima</i>	高山榕	4	120	3	Fair	Toyo Nursery	Central
A1022	<i>Bauhinia blakeana</i>	洋紫荊	5	95	3.5	Fair	Toyo Nursery	Central
T1758	<i>Bauhinia blakeana</i>	洋紫荊	7	120	4	Fair	Toyo Nursery	Central
T1854	<i>Adenanthera</i>	海紅豆	6	110	3.5	Fair	Toyo Nursery	Central
T1900	<i>Ficus virens</i>	大葉榕	9	320	4	Fair	Melofield Nursery	Central
T1902	<i>Ficus benjamina</i>	垂葉榕	4	95	2	Fair	Melofield Nursery	Central
T1903	<i>Ficus benjamina</i>	垂葉榕	5	100	2	Fair	Melofield Nursery	Central
T1904	<i>Ficus benjamina</i>	垂葉榕	12	385	5	Fair	Melofield Nursery	Central
T1905	<i>Micrasanga tonarhis</i>	血桐	5	150	2	Fair	Melofield Nursery	Central
T1906	<i>Celtis sinensis</i>	朴樹	4	95	2	Fair	Melofield Nursery	Central
T1907	<i>Ficus variegata</i>	青葉榕	5	95	2	Fair	Melofield Nursery	Central
T1908	<i>Albizia lebbek</i>	大葉合歡	4	95	2	Fair	Melofield Nursery	Central
T1909	<i>Bombax ceiba</i>	木棉	4	100	2	Fair	Melofield Nursery	Central
T1910	<i>Ficus virens</i>	大葉榕	6	100	2	Fair	Melofield Nursery	Central
T1911	<i>Albizia lebbek</i>	大葉合歡	9	170	4	Poor	Melofield Nursery	Central
T1912	<i>Albizia lebbek</i>	大葉合歡	7	204	4	Poor	Melofield Nursery	Central
T2015	<i>Ficus microcarpa</i>	細葉榕	8	208	4	Fair	Melofield Nursery	Central
T1858 R	<i>Ficus altissima</i>	高山榕	5	400	4	Fair	NA	NA
T1859 R	<i>Ficus altissima</i>	高山榕	7	420	6	Fair	NA	NA
T1400R	<i>Acacia confusa</i>	臺灣相思	6	150	7	Poor	NA	NA
T1441R	<i>Acacia confusa</i>	臺灣相思	5	200	5	Poor	NA	NA
T1442R	<i>Ficus altissima</i>	高山榕	6	250	6	Fair	NA	NA
T1443R	<i>Ficus altissima</i>	高山榕	4	140	3	Fair	NA	NA
T1444R	<i>Ficus altissima</i>	高山榕	4	140	3	Fair	NA	NA
T1834	<i>Ficus benjamina</i>	垂葉榕	16			Fair	NA	NA
T1827R	<i>Roystonea regia</i>	王棕	6	180	2	Fair	NA	NA
T1829R	<i>Roystonea regia</i>	王棕	10	300	4.5	Fair	NA	NA

Appendix B

Hard Landscape Plan – Green Rooftop for Ventilation Buildings and East Ventilation Shaft Design

Contractor's Submission Form



Leighton Joint Venture
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 f: +852 2529 8784
 e: info@leightonasia.com

Ref: H2613/CSF/OPR/03711-R0

Date: 16-Sep-2019

Contract: HY/2011/08– Central-Wan Chai Bypass – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning

To: Engineer's Representative, The Chief Resident Engineer Mr. David Kwan
 Your Ref.: .

Title of Submission: As-built Drawings of WVB Green Roof

Specification:

We are pleased to submit the following for your review and comment.

Description:

We submit herewith the as-built drawings of WVB Green Roof for your record.

17 SEP 2019

IN/OUT		
Date:		
H2613 CWB Tunnel Bldgs. Systems & Fittings, and Works Associated w/ Tunnel Commissioning		
Team	Info	Action
CM		
Site Agent		
PD		
PM/DBM		
Comm M		
CM (Prog)	/	
CM (Civil)		
FM		
Prog		
Safety		
Env		
Quality		/
Survey		
Admin		
Site		
External Works		
Remarks:		

Purpose of Submission:

For Record, Reference or Information

Contractor's Representative
 Signature:

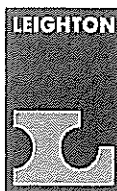
Date: 16-Sep-2019

Name: Colman Wong
 Position: Joint Venture's Representative

Distribution: CW / JC / HyL

Prepared by: Jonas LAM

Contractor's Submission Form



Leighton Joint Venture

39/F Sun Hung Kai Centre
30 Harbour Road, Hong Kong

t: +852 2823 1111

f: +852 2529 8784

e: info@leightonasia.com

Ref: H2613/CSF/OPR/03711-R0

Date: 16-Sep-2019

Contract: HY/2011/08 – Central-Wan Chai Bypass – Tunnel Buildings, Systems and Fittings, and Works
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Purpose of Submission:

For Record, Reference or Information

Contractor's Representative

Date: 16-Sep-2019

Signature:

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Name: Colman Wong

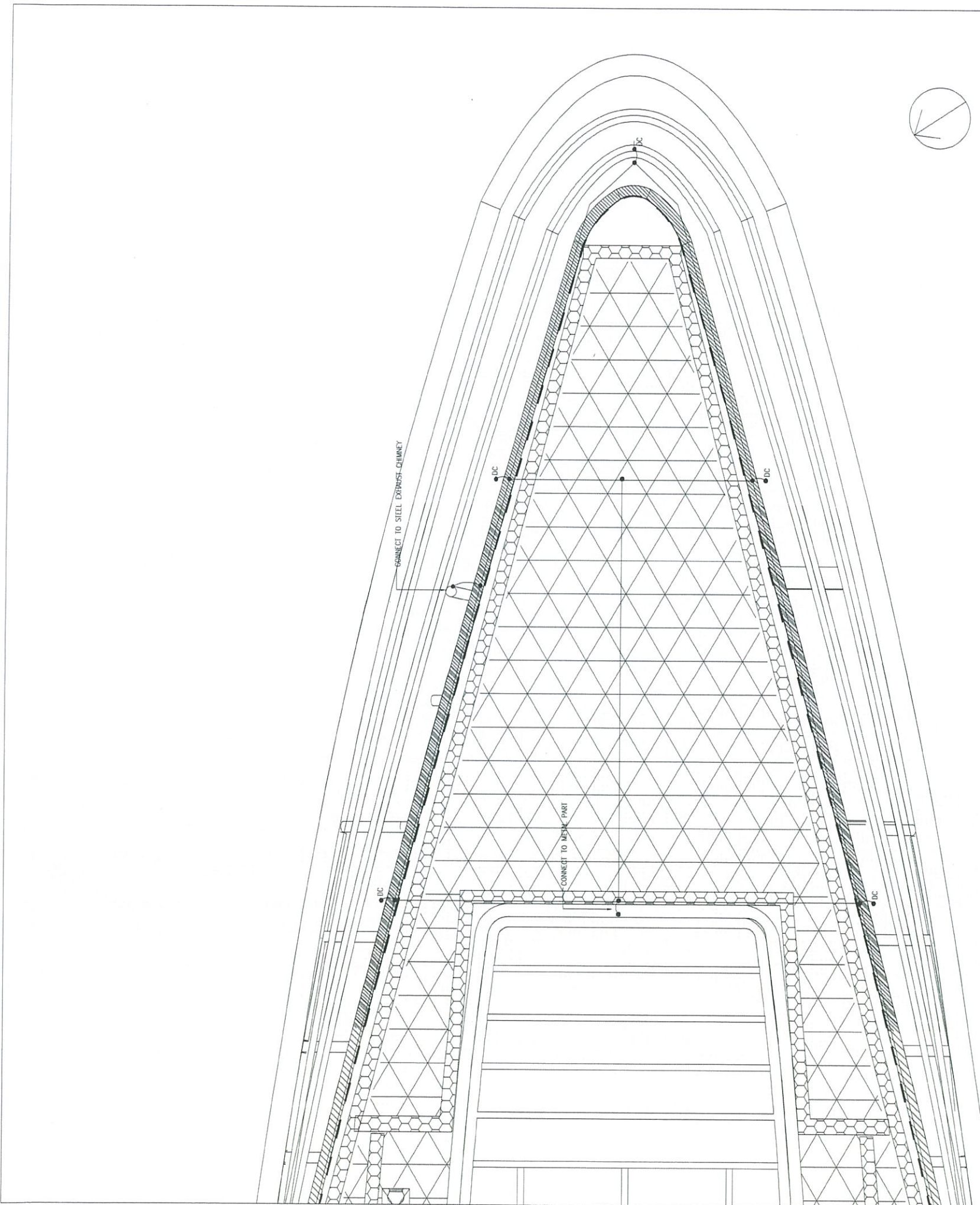
Position: Joint Venture's Representative

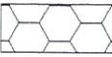

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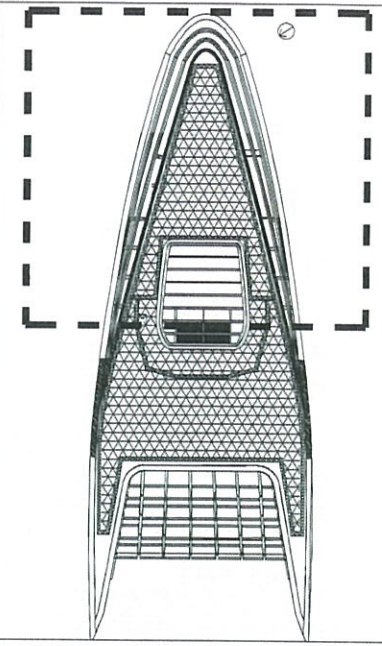
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Prepared by: Jonas LAM

A handwritten signature in black ink, appearing to read "Jonas LAM".



- LEGEND:
- CONNECTING PIPE
 - DRIP LINE
 -  MAINTENANCE PATH (BY OTHERS)
 -  PLANTING (ARACHIS DURANENSIS) (蔓花生)



KEYPLAN

AS-BUILT

REV	DESCRIPTION	BY	DATE
序號	內容摘要	編者	日期
A	GENERAL REVISION	DY	10 2017

Highways Department 路政署
 Major Works Project Management Office
CENTRAL - WAN CHAI BYPASS AND IEC LINK
 CENTRAL - WAN CHAI BYPASS -
 TUNNEL BUILDINGS, SYSTEMS AND FITTINGS,
 AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING
 CONSULTANT ENGINEER
AECOM
 AECOM Asia Co. Ltd.

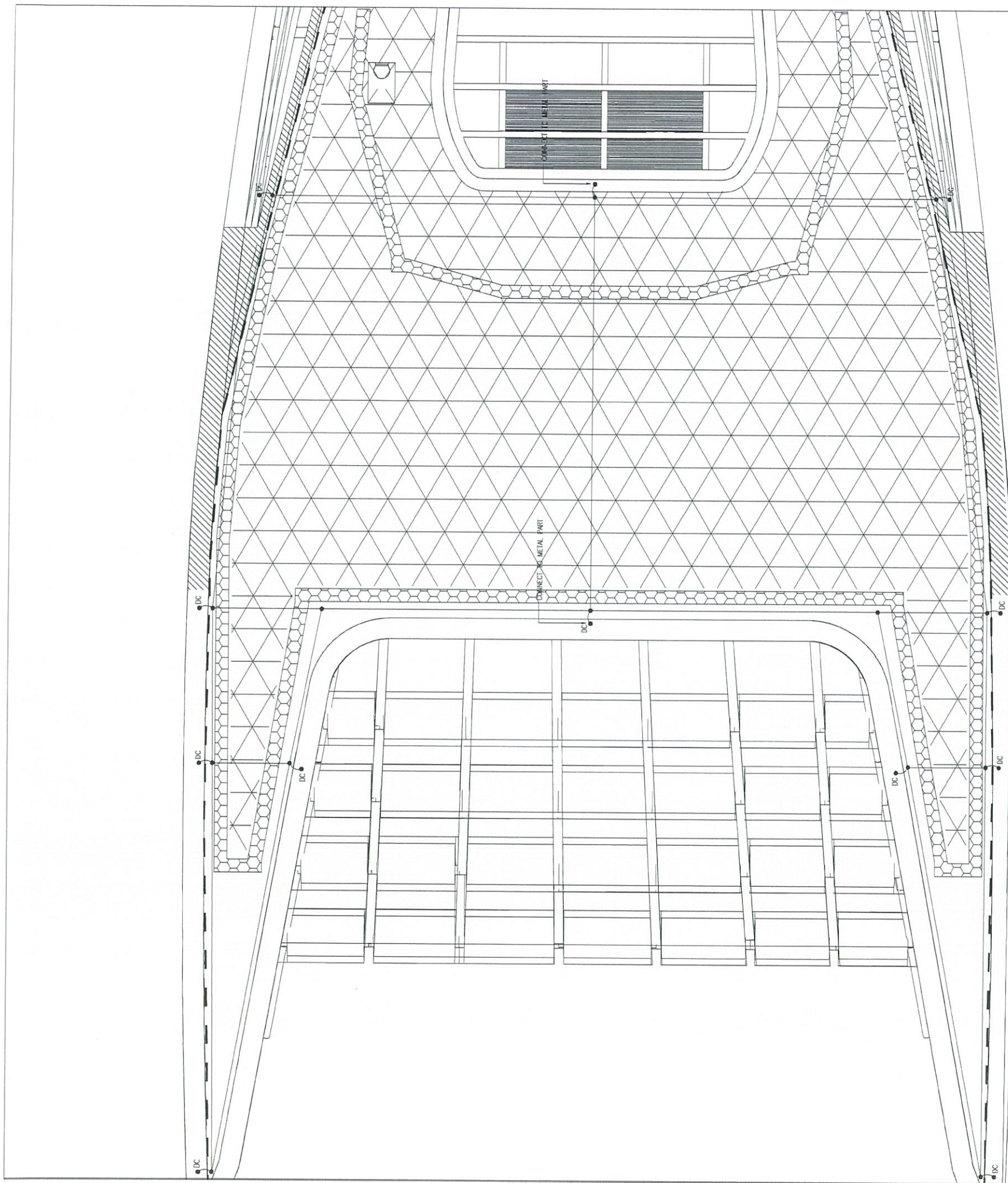
CONTRACTOR
 LEIGHTON JOINT VENTURE

CONSULTANT LANDSCAPE
 地利環境
TEAM 73

LANDSCAPE SUB-CONTRACTOR
 WAH LAI CONTRACTORS LTD

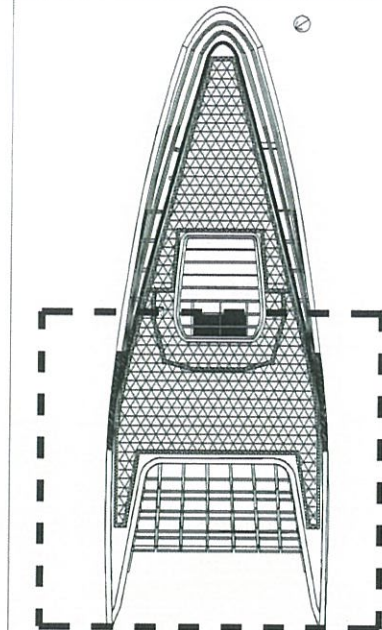
DRAWING TITLE
PLANTING PLAN - 1

DRG. NO. 圖號	LP - 01A	A
DESIGN BY 設計	CONTRACT NO. 合約編號	APPROVED BY 核准
DRAWN BY 繪圖	HY/2011/08	
SCALE 比例	1:200@A3	STATUS 圖況
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LEGEND:

- CONNECTING PIPE
- DRIP LINE
-  MAINTENANCE PATH (BY OTHERS)
-  PLANTING (ARACHIS DURANENSIS) (蔓花生)



KEYPLAN

AS-BUILT

A	GENERAL REVISION	DY	10 2017
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REV	DESCRIPTION	BY	DATE
01	AS-BUILT		

CAD FILE
L2123

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CONSULTANT LANDSCAPE
 地利環境
TEAM 73

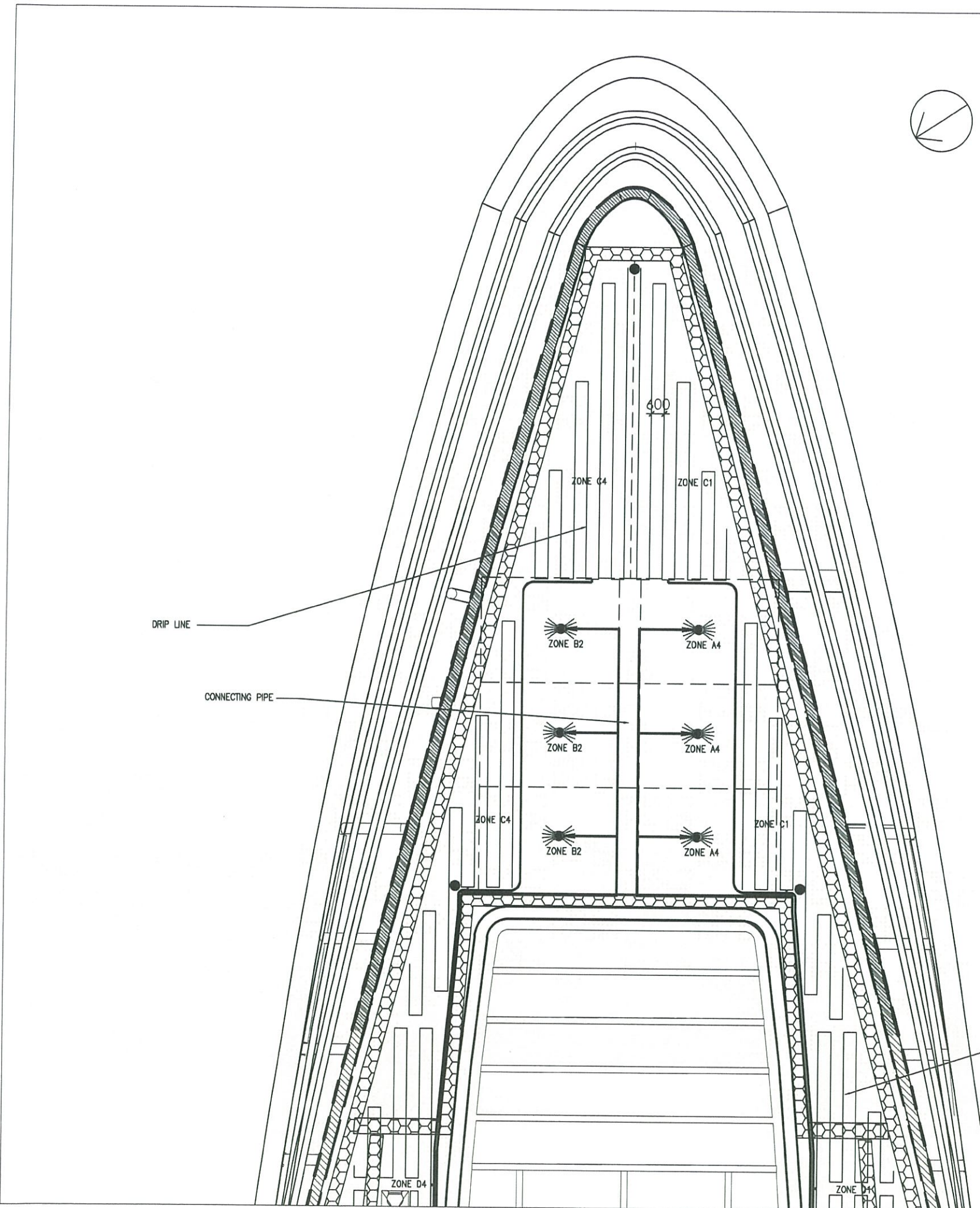
LANDSCAPE SUB-CONTRACTOR
WAH LAI CONTRACTORS LTD

DRAWING TITLE
PLANTING PLAN - 2

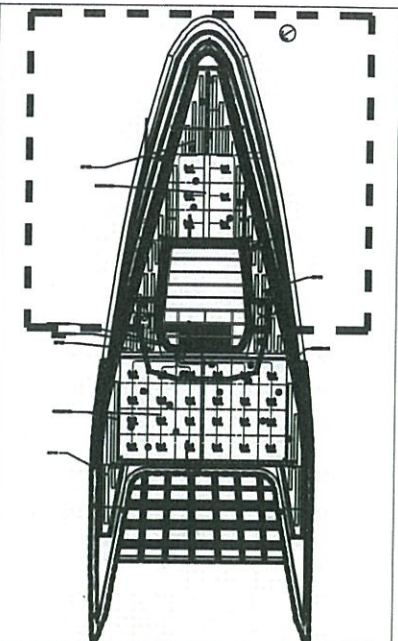
DRG. NO. LP - 01B A

DESIGN BY CONTRACT NO. HY/2011/08 APPROVED BY

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- LEGEND:
- CONNECTING PIPE
 - DRIP LINE
 - MAINTENANCE PATH (BY OTHERS)
 - PLANTING (ARACHIS DURANENSIS) (蔓花生)
 - BACKUP WATER POINT



KEYPLAN

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NO.	DESCRIPTION	BY	DATE
A	GENERAL REVISION	DY	10/2017

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DRAWING TITLE
 IRRIGATION PLAN - 1

DRG. NO. LP - 02A	A	
DESIGN BY SY	CONTRACT NO. HY/2011/08	APPROVED BY T. W.
DRAWN BY SY	DATE 12/11	
SCALE 1:200@A3		
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DRIP LINE

CONNECTING PIPE

DRIP LINE

600

ZONE C4

ZONE C1

ZONE B2

ZONE A4

ZONE B2

ZONE A4

ZONE C4

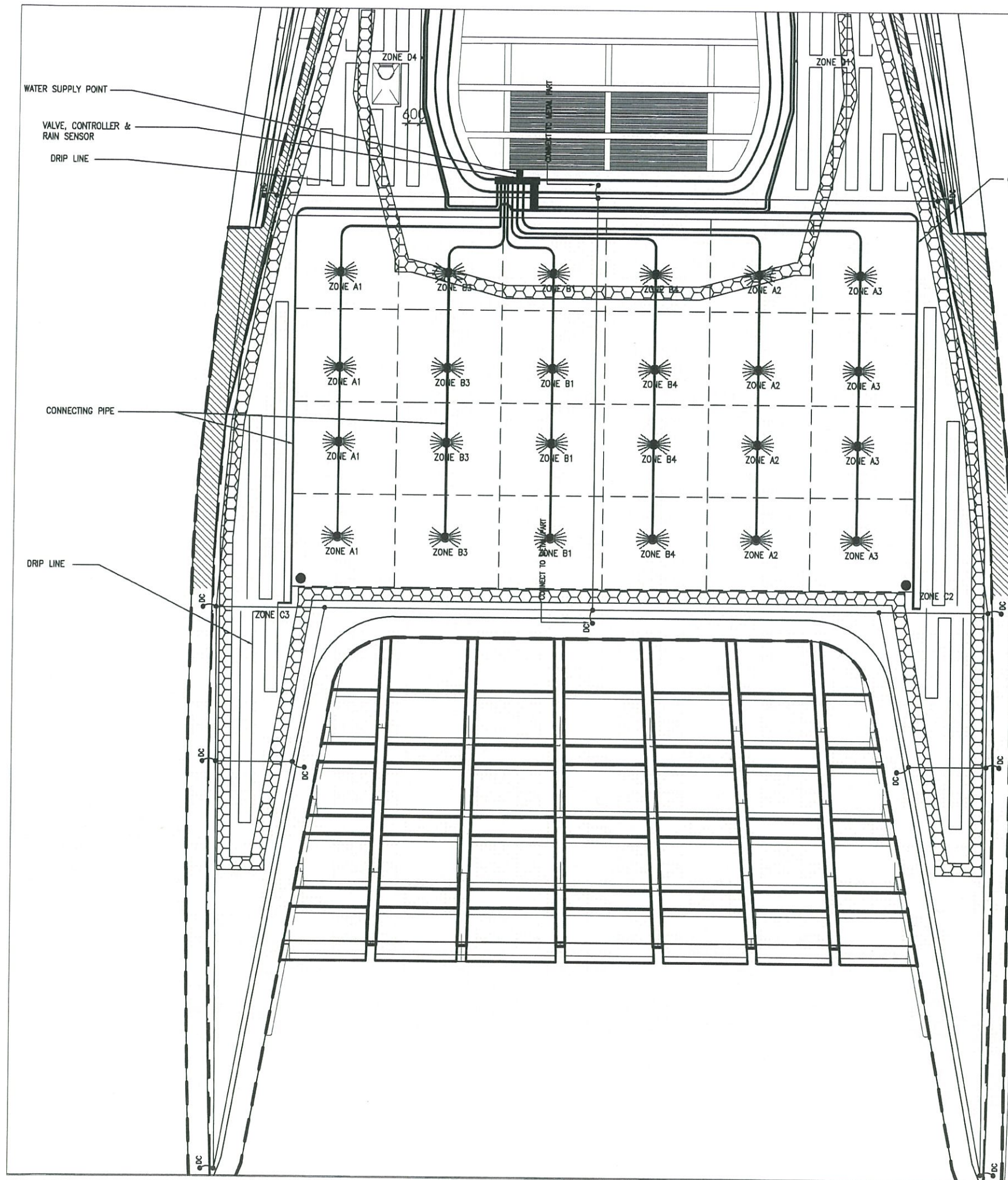
ZONE C1

ZONE B2



ZONE A4

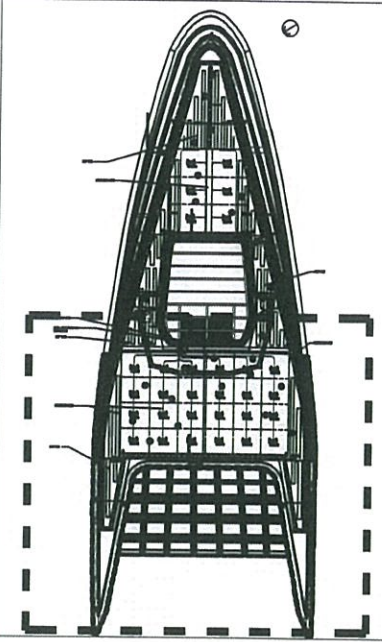
ZONE D4

ZONE D4



LEGEND:

- CONNECTING PIPE
- DRIP LINE
-  MAINTENANCE PATH (BY OTHERS)
-  PLANTING (ARACHIS DURANENSIS) (蔓花生)
- BACKUP WATER POINT



KEYPLAN

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REV	DESCRIPTION	BY	DATE
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CONTRACTOR
 LEIGHTON JOINT VENTURE

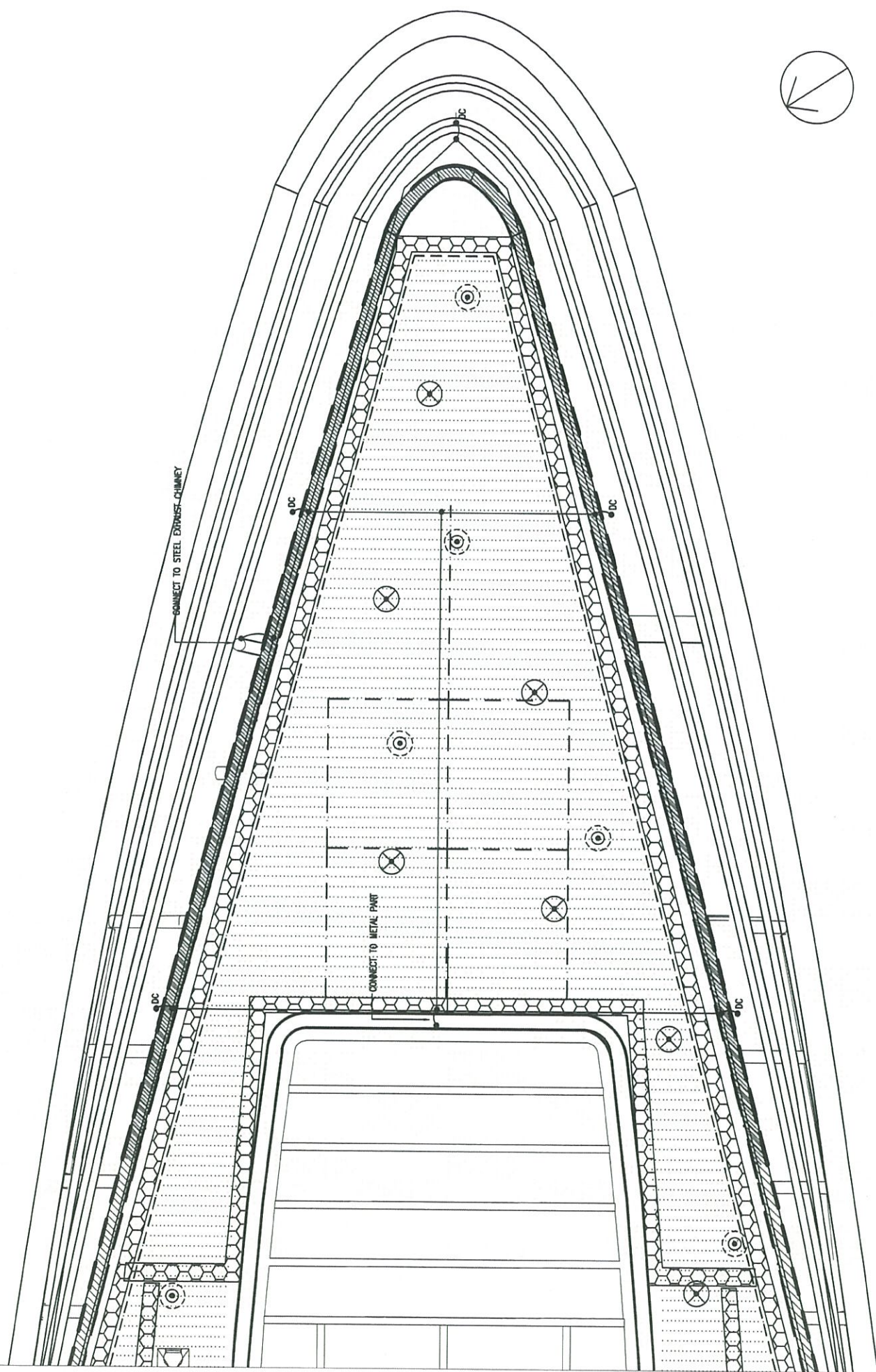
CONSULTANT LANDSCAPE
 地利環境
 TEAM 73

LANDSCAPE SUB-CONTRACTOR
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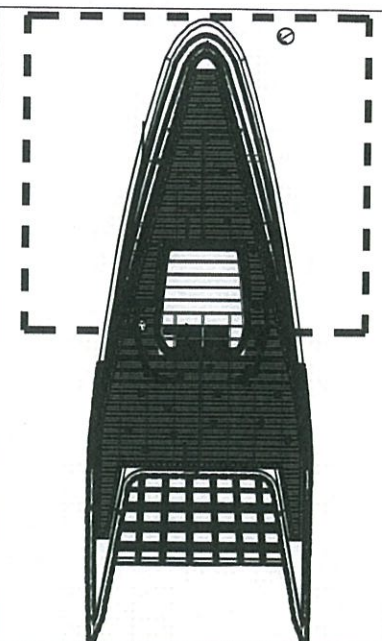
DRAWING TITLE
 IRRIGATION PLAN - 2

DRG. NO. LP - 02B	A
DESIGN BY HY	CONTRACT NO. HY/2011/08
DRAWN BY HY	APPROVED BY HY
SCALE 1:200@A3	STATUS AS BUILT

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- LEGEND:
- 13 nos. L13 Platek 84 09 866
1200 Mini Roll Over 4 Openings 3W
(3 LED - 4000K) 4 X 60 degree
 - 17 nos. L12 Platek 84 09 766
1200 Mini Roll Over 2 Openings 3W
(3 LED - 4000K) 2 X 90 degree
 - OLUX LED linear wall washer
- Dimming version
- *MINIMUM DISTANCE BETWEEN LIGHTS = 2000mm
- LIGHTNING PROTECTION
 - MAINTENANCE PATH
(SETTING OUT REFER TO
ENGINEER'S DWG)
 - ALUMINIUM EDGE (315MM HEIGHT)
 - ALUMINIUM EDGE (265MM HEIGHT)
 - SEAM OF KALZIP - MODEL NO. 65 / 400
(C/C 400MM, 65MM HEIGHT)



KEYPLAN

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REV.	DESCRIPTION	BY	DATE
A	GENERAL REVISION	DY	10 2017

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AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

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AECOM
AECOM Asia Co. Ltd.

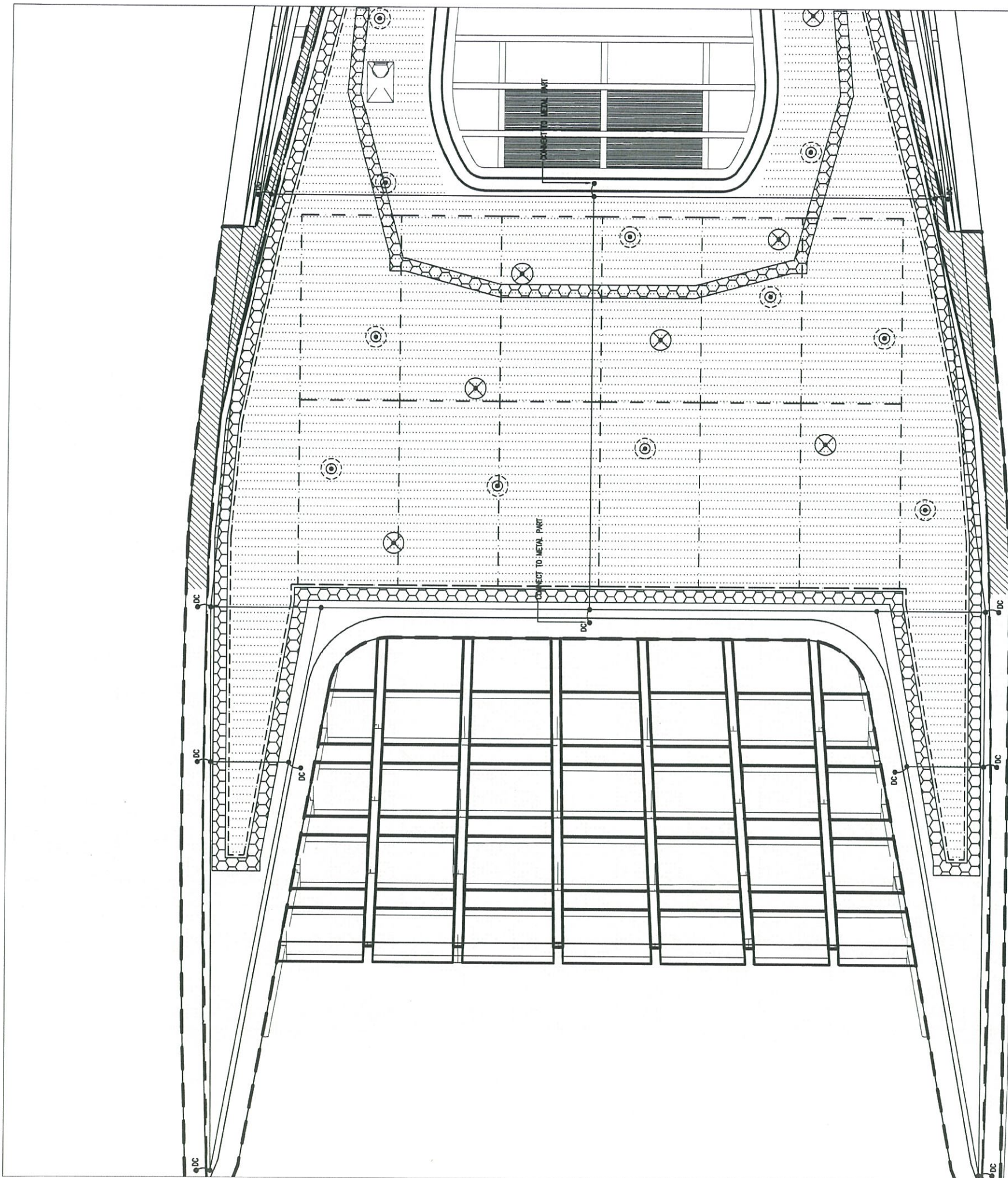
CONTRACTOR
LEIGHTON JOINT VENTURE

CONSULTANT LANDSCAPE
地利環境 TEAM 73

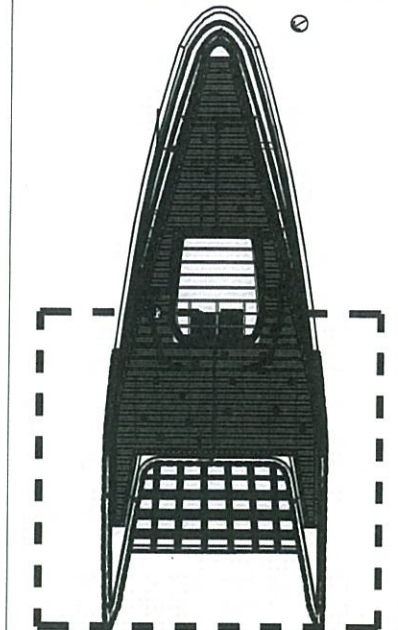
LANDSCAPE SUB-CONTRACTOR
WAH LAI CONTRACTORS LTD

DRAWING TITLE
LIGHTING PLAN - 1

DRG. NO. LP - 05	A
DESIGN BY HY	CONTRACT NO. HY/2011/08
DRAWN BY HY	APPROVED BY HY
SCALE 1:200@A3	STATUS REV. 01
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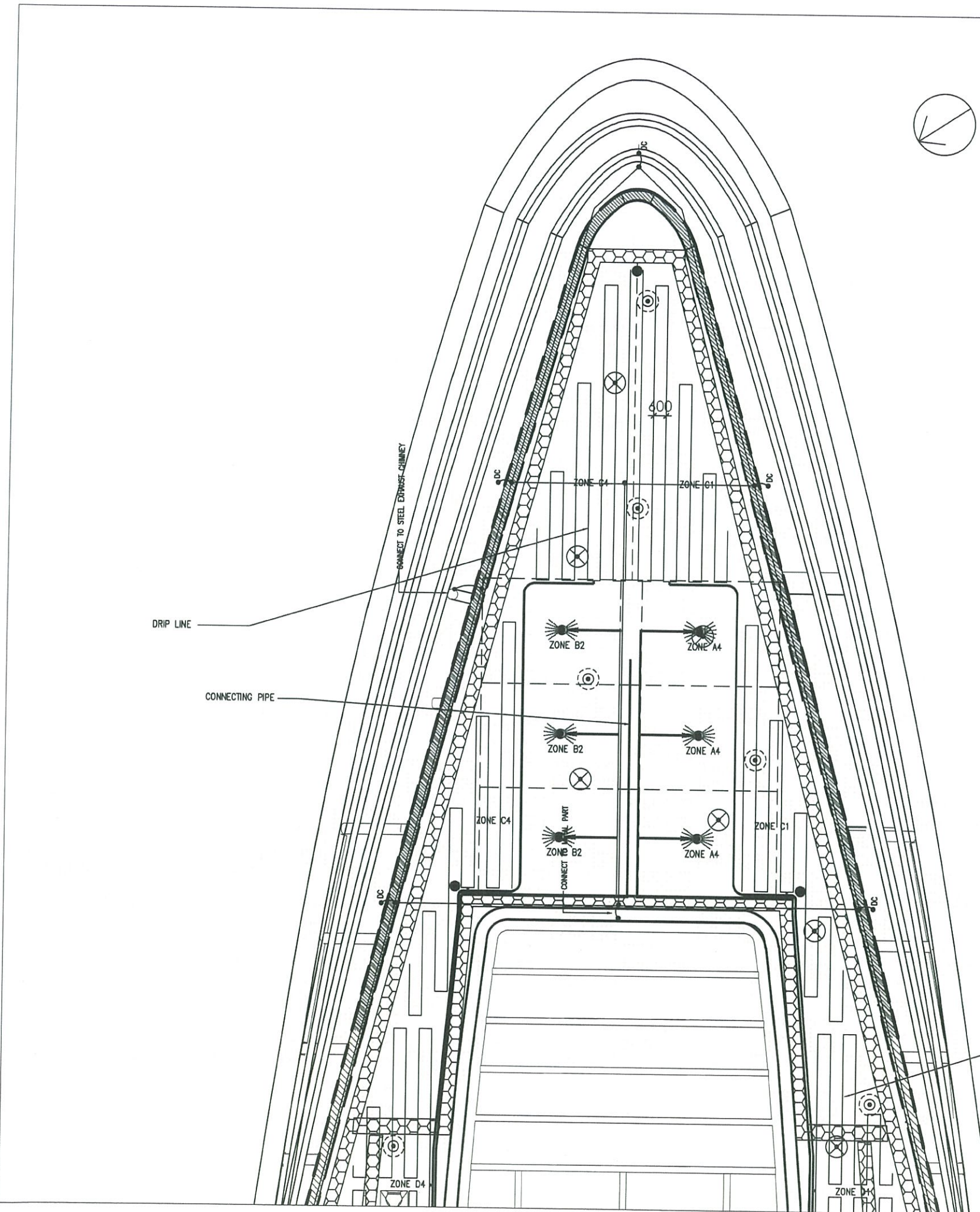
- LEGEND:
- 13 nos. L13 Platek 84 09 866
1200 Mini Roll Over 4 Openings 3W
(3 LED - 4000K) 4 X 60 degree
 - 17 nos. L12 Platek 84 09 766
1200 Mini Roll Over 2 Openings 3W
(3 LED - 4000K) 2 X 90 degree
 - OLUX LED linear wall washer
- Dimming version
- *MINIMUM DISTANCE BETWEEN LIGHTS = 2000mm
- LIGHTNING PROTECTION
 - MAINTENANCE PATH
(SETTING OUT REFER TO
ENGINEER'S DWG)
 - ALUMINIUM EDGE (315MM HEIGHT)
 - ALUMINIUM EDGE (265MM HEIGHT)
 - SEAM OF KALZIP - MODEL NO. 65 / 400
(C/C 400MM, 65MM HEIGHT)



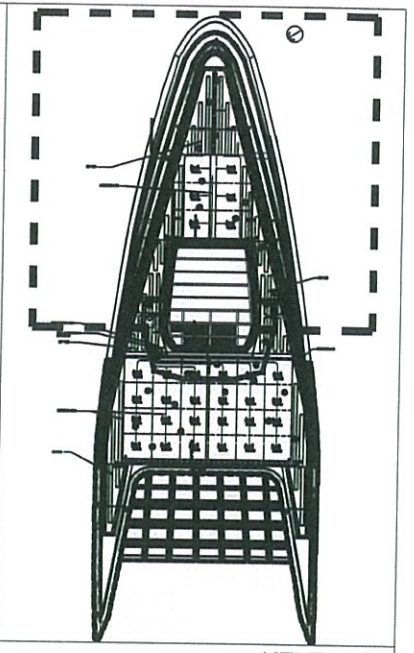
KEYPLAN

AS-BUILT

REV.	DESCRIPTION	BY	DATE
A	GENERAL REVISION	DY	10/2017
<p>Highways Department 路政署 Major Works Project Management Office</p> <p>CENTRAL - WAN CHAI BYPASS AND IEC LINK CENTRAL - WAN CHAI BYPASS - TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING</p> <p>CONSULTANT ENGINEER AECOM AECOM Asia Co. Ltd.</p> <p>CONTRACTOR LEIGHTON JOINT VENTURE</p> <p>CONSULTANT LANDSCAPE 地利環境 TEAM 73</p> <p>LANDSCAPE SUB-CONTRACTOR WAH LAI CONTRACTORS LTD</p>			
DRAWING TITLE			
LIGHTING PLAN - 2			
DRG. NO.	LP - 06	A	
DESIGN BY	CONTRACT NO.	APPROVED BY	
DRAWN BY	HY/2011/DB	DC	
SCALE	1:200@A3	STATUS	
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- LEGEND:
- 13 nos. L13 Platek 84 09 866
1200 Mini Roll Over 4 Openings 3W
(3 LED - 4000K) 4 X 60 degree
 - 17 nos. L12 Platek 84 09 766
1200 Mini Roll Over 2 Openings 3W
(3 LED - 4000K) 2 X 90 degree
 - OLUX LED linear wall washer
- Dimming version
- *MINIMUM DISTANCE BETWEEN LIGHTS = 2000mm
- LIGHTNING PROTECTION
 - CONNECTING PIPE
 - DRIP LINE
 - MAINTENANCE PATH
(SETTING OUT REFER TO
ENGINEER'S DWG)
 - AUTOMATIC SPRINKLER SYSTEM



KEYPLAN

AS-BUILT

REV	DESCRIPTION	BY	DATE
B	GENERAL REVISION	DY	04 2019
A	GENERAL REVISION	DY	10 2017
1			

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TUNNEL BUILDINGS, SYSTEMS AND FITTINGS,
AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

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AECOM
AECOM Asia Co. Ltd.

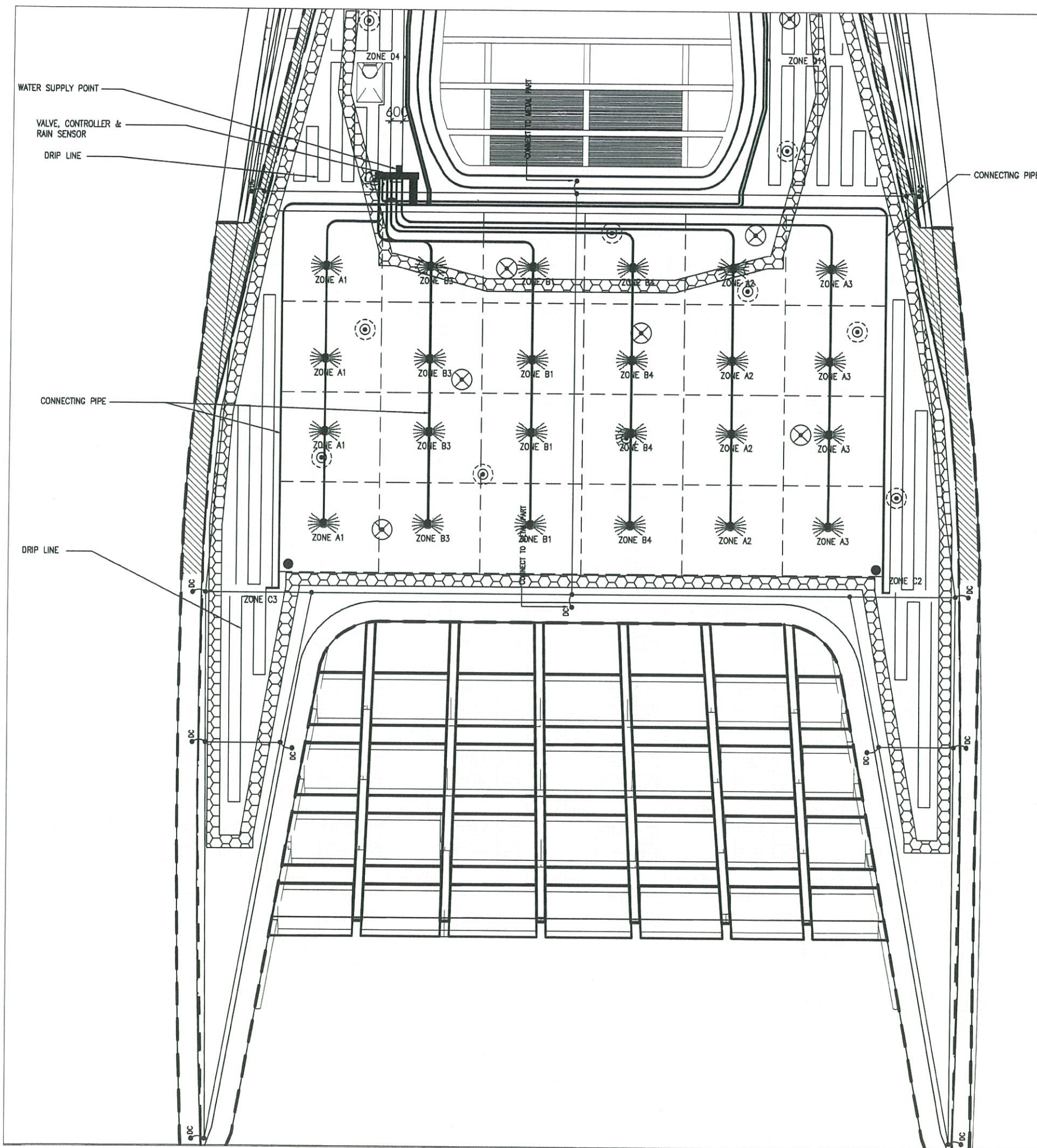
CONTRACTOR
LEIGHTON JOINT VENTURE

CONSULTANT LANDSCAPE
地利環境 TEAM 73

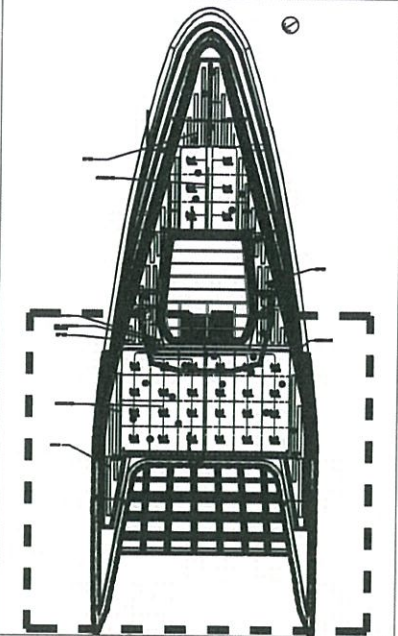
LANDSCAPE SUB-CONTRACTOR
WAH LAI CONTRACTORS LTD

DRAWING TITLE
E&M SERVICE PLAN - 1

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DESIGN BY	CONTRACT NO.	APPROVED BY
DRAWN BY	HY/2011/DB	
SCALE	STATUS	
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- LEGEND:**
- 13 nos. L13 Platek 84 09 866
1200 Mini Roll Over 4 Openings 3W
(3 LED - 4000K) 4 X 60 degree
 - 17 nos. L12 Platek 84 09 766
1200 Mini Roll Over 2 Openings 3W
(3 LED - 4000K) 2 X 90 degree
 - OLUX LED linear wall washer
- Dimming version
- *MINIMUM DISTANCE BETWEEN LIGHTS = 2000mm
- LIGHTNING PROTECTION
 - CONNECTING PIPE
 - DRIP LINE
 - MAINTENANCE PATH
(SETTING OUT REFER TO ENGINEER'S DWG)
 - AUTOMATIC SPRINKLER SYSTEM



KEYPLAN

AS-BUILT

REV.	DESCRIPTION	BY	DATE
B	GENERAL REVISION	DY	04 2019
A	GENERAL REVISION	DY	10 2017

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AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

CONSULTANT ENGINEER
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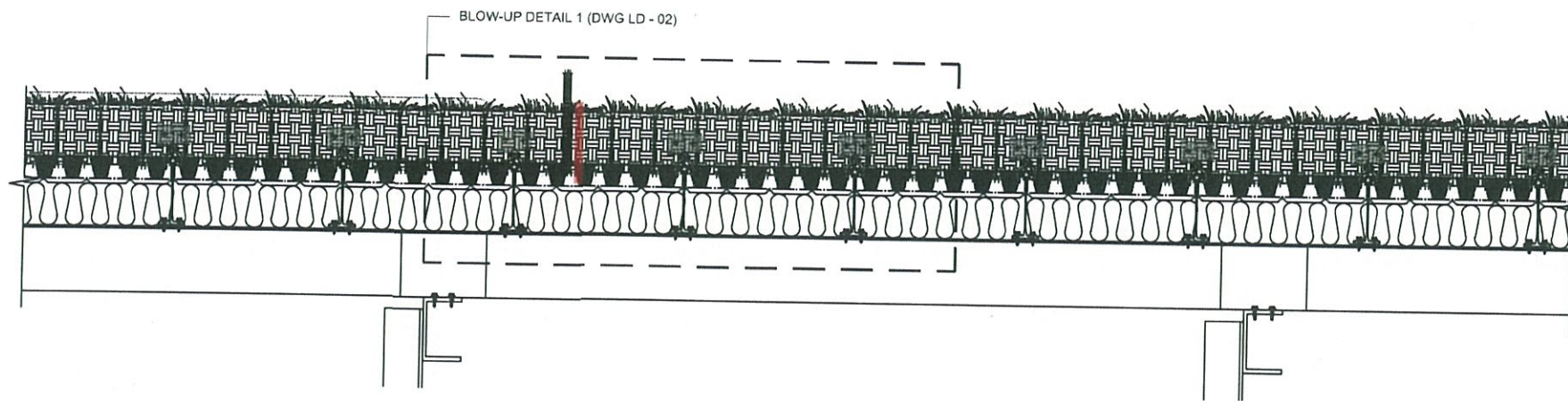
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LEIGHTON JOINT VENTURE

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地利環境 TEAM 73

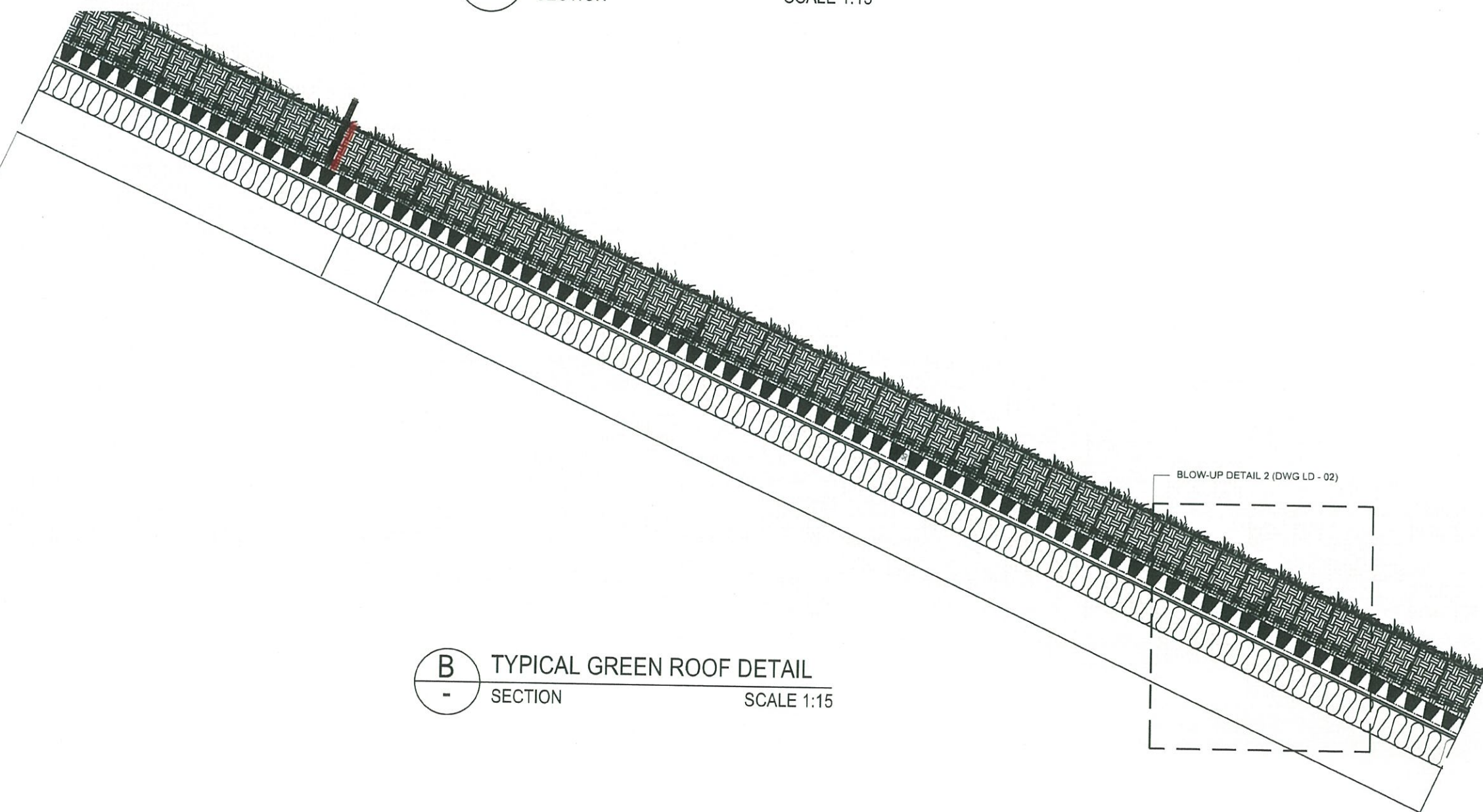
LANDSCAPE SUB-CONTRACTOR
WAH LAI CONTRACTORS LTD

DRAWING TITLE
E&M SERVICE PLAN - 2

DRG. NO. LP - 08	B
DESIGN BY	CONTRACT NO.
DRAWN BY	HY/2011/08
SCALE 1:200@A3	STATUS
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A TYPICAL GREEN ROOF DETAIL
SECTION SCALE 1:15



B TYPICAL GREEN ROOF DETAIL
SECTION SCALE 1:15

AS-BUILT

REV	DESCRIPTION	BY	DATE
D	GENERAL REVISION	DY	04 2019
C	GENERAL REVISION	DY	11 2017
B	GENERAL REVISION	DY	10 2017
A	GENERAL REVISION	SI	06 2017

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AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

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AECOM Asia Co. Ltd.

CONTRACTOR
LEIGHTON JOINT VENTURE

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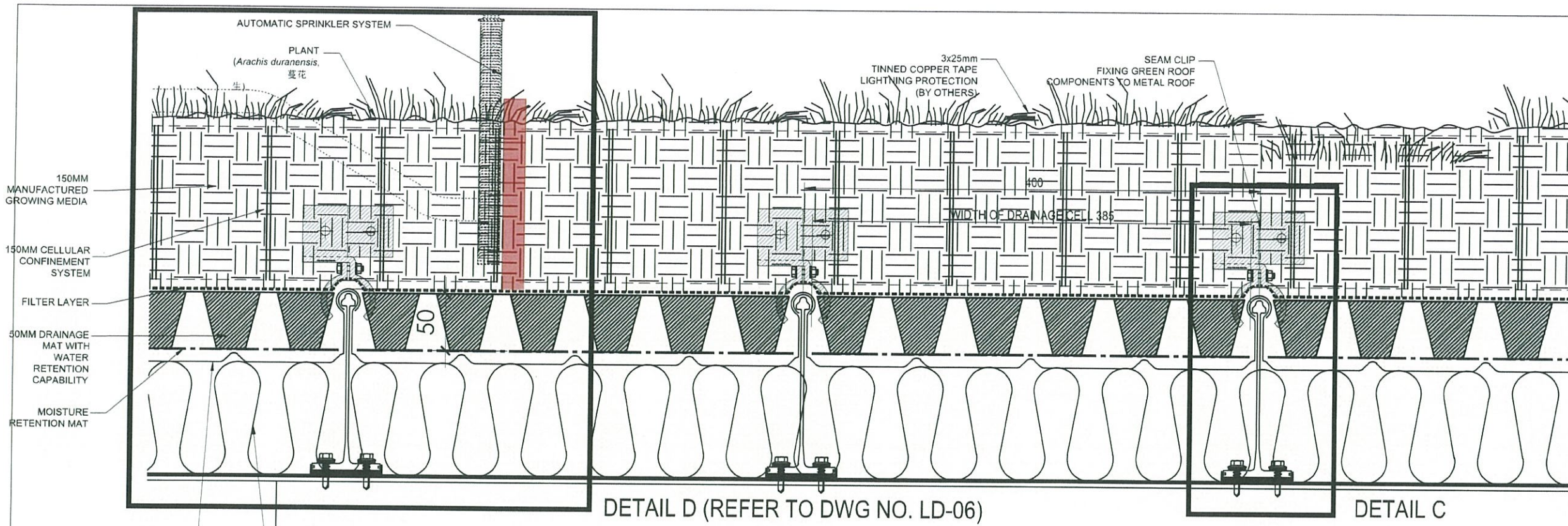
LANDSCAPE SUBCONTRACTOR
WAH LAI CONTRACTORS LTD

DRAWING TITLE
**WAN CHAI N-POINT BYPASS
TYPICAL GREEN ROOF
DETAIL - 1**

DRG. NO. LD-01

SCALE AS SHOWN

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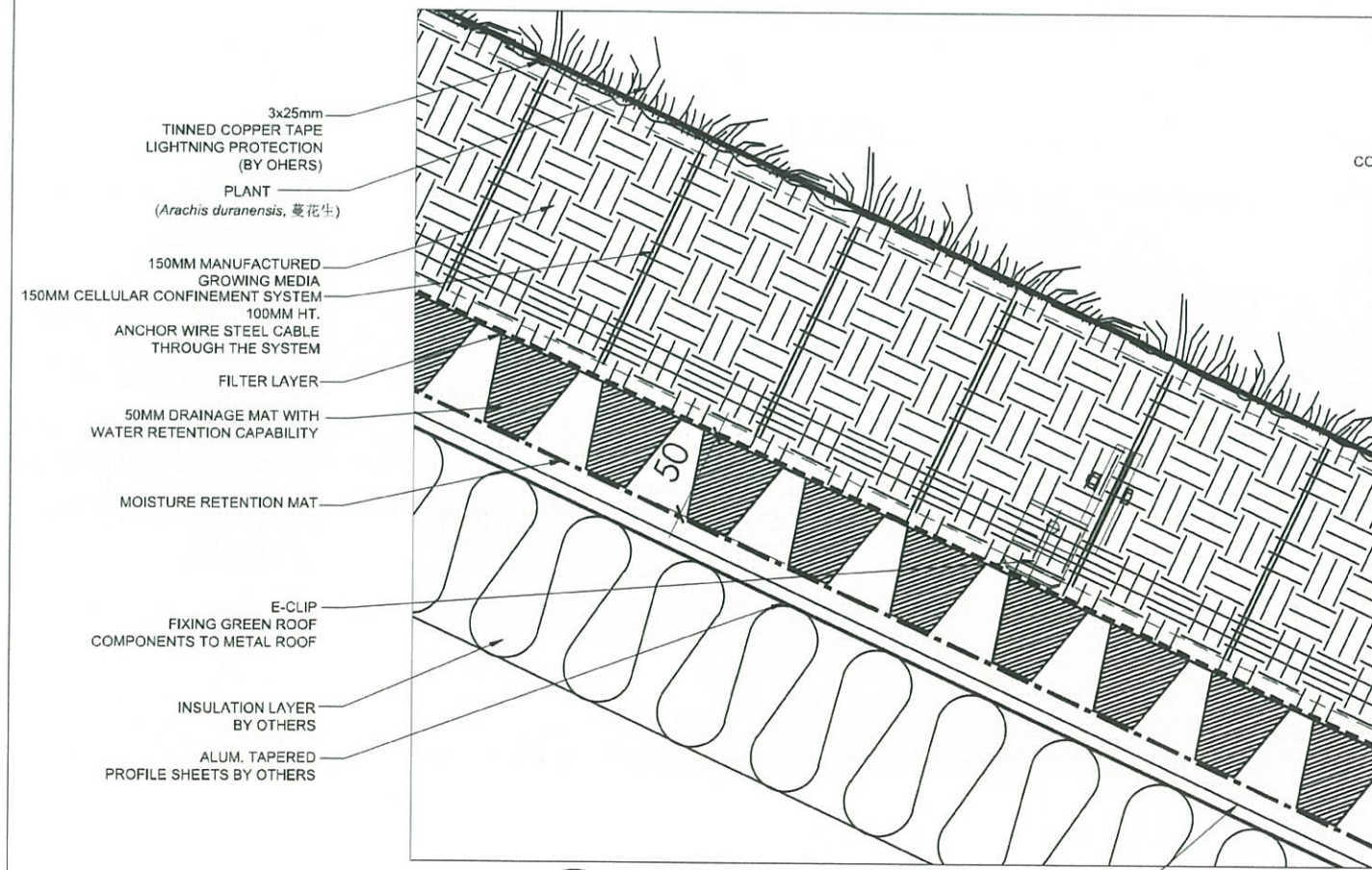


NOTES:
THE FIXING DETAILS IS FOR INDICATIVE ONLY.
ACTUAL FIXING DETAIL SUBJECT TO SITE
CONDITIONS.

AS-BUILT

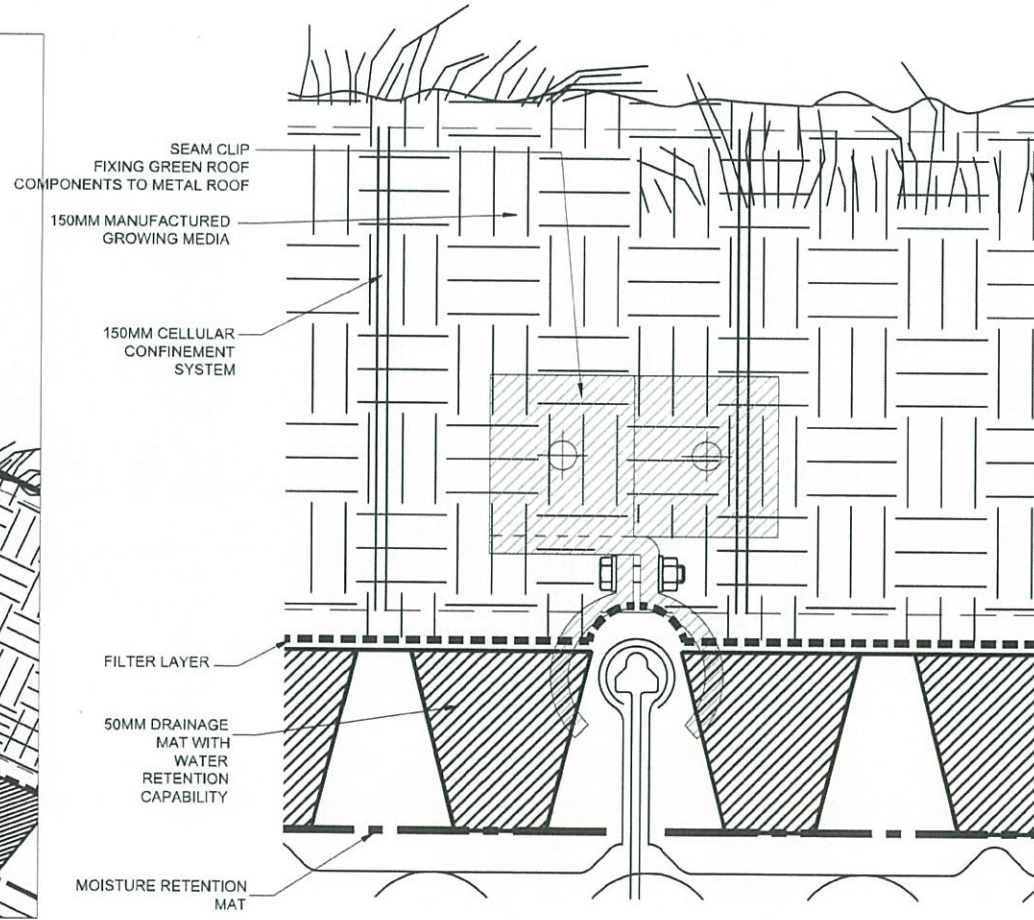
A BLOW-UP DETAIL 1
SCALE 1:4

ALUM. TAPERED PROFILE SHEETS BY OTHERS
INSULATION LAYER BY OTHERS



B BLOW-UP DETAIL 2
SCALE 1:4

PROFILE OF METAL ROOF



C INDICATIVE FIXING DETAIL
SCALE 1:2

REV	DESCRIPTION	BY	DATE
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C	GENERAL REVISION	DY	11 2017
B	GENERAL REVISION	DY	10 2017
A	GENERAL REVISION	SI	06 2017

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LANDSCAPE SUBCONTRACTOR
WAH LAI CONTRACTORS LTD

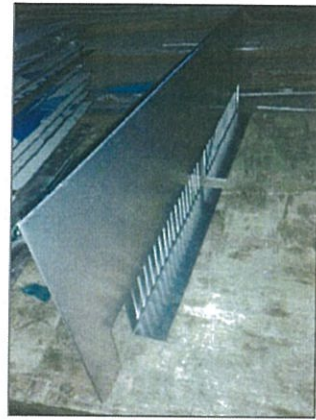
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**WAN CHAI N-POINT BYPASS
WVB TYPICAL GREEN ROOF
DETAIL - 2**

DRG. NO. LD-02

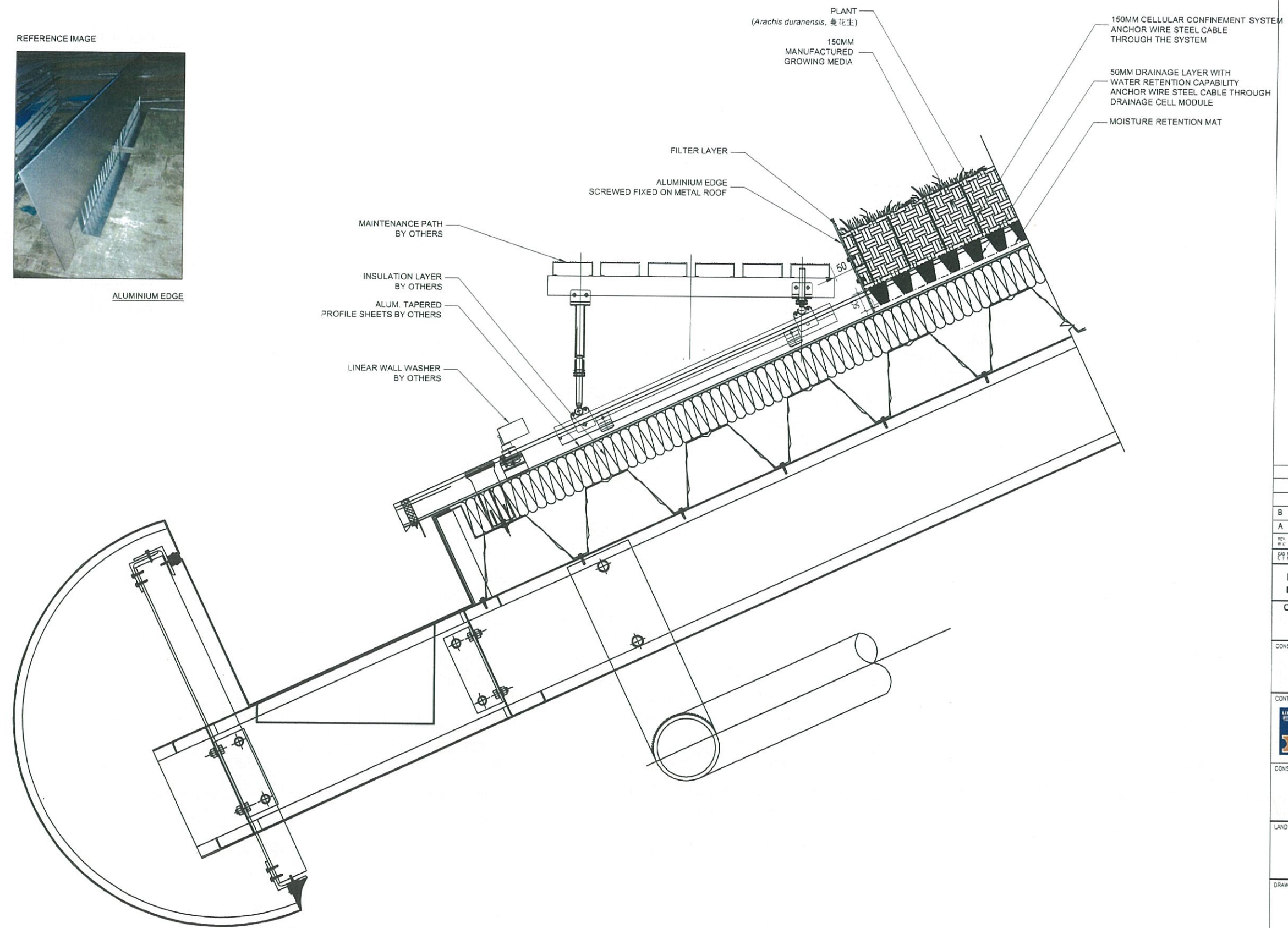
DESIGN BY: HY/2011/08
DRAWN BY: HY/2011/08
SCALE: AS SHOWN

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AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

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AECOM
AECOM Asia Co. Ltd.

CONTRACTOR
LEIGHTON JOINT VENTURE

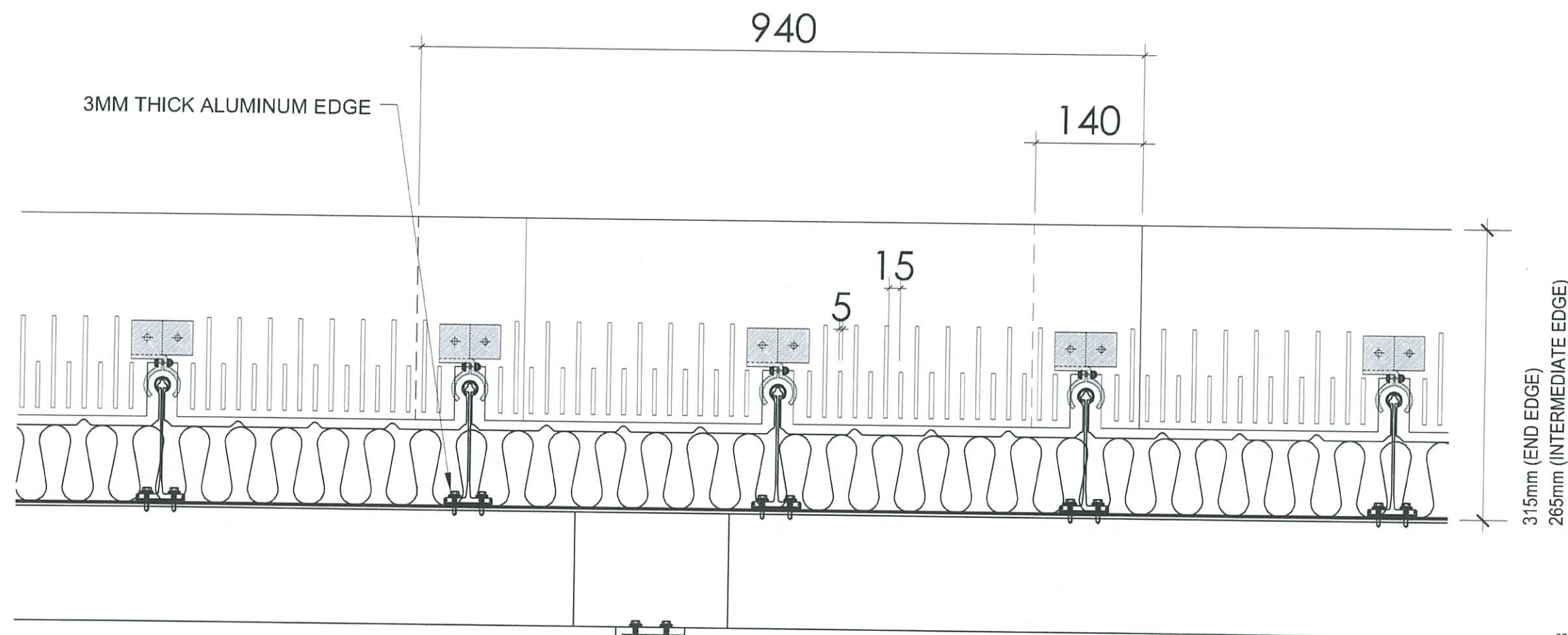
CONSULTANT LANDSCAPE
地利環境 TEAM 73

LANDSCAPE SUBCONTRACTOR
WAH LAI CONTRACTORS LTD

DRAWING TITLE
**WAN CHAI N-POINT BYPASS
TYPICAL GREEN ROOF
DETAIL - 3**

DRG. NO.	LD-03	B
DESIGN BY	CONTRACT NO.	APPROVED BY
DRAWN BY	HY/2011/08	
SCALE	AS SHOWN	STATUS
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A GREEN ROOF EDGING DETAIL
SCALE 1:10



AS-BUILT

REV.	DESCRIPTION	BY	DATE
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A	GENERAL REVISION	DY	11 2017

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 AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

CONSULTANT ENGINEER
AECOM
 AECOM Asia Co. Ltd.

CONTRACTOR
LEIGHTON JOINT VENTURE

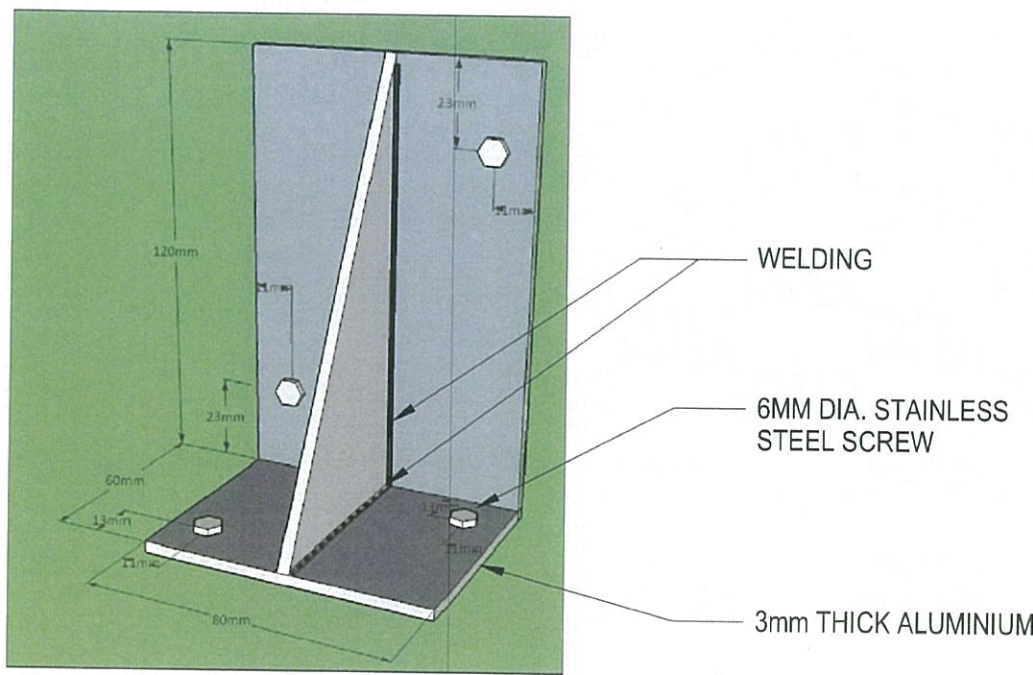
CONSULTANT LANDSCAPE
地利環境 TEAM 73

LANDSCAPE SUBCONTRACTOR
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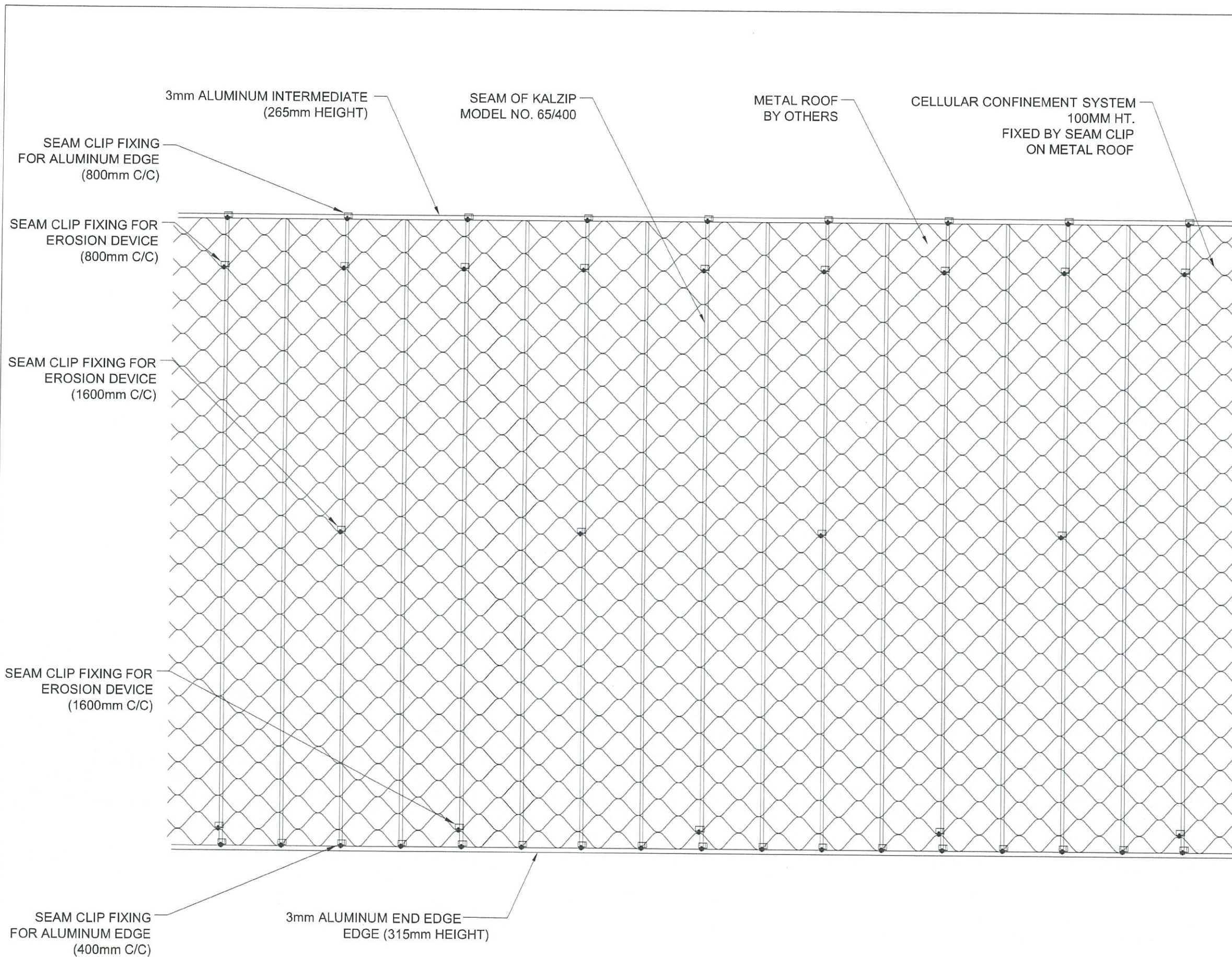
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**TYPICAL GREEN ROOF
 DETAIL - 4**

DRG. NO. LD-04	B
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DRAWN BY SY SP	APPROVED BY SY SP
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A GREEN ROOF ALUMINUM INTERMEDIATE / END EDGE DETAIL
 SCALE 1:10



TYPICAL ALUMINIUM SUPPORT DETAILS



NOTES.
THE FIXING DETAILS IS FOR INDICATIVE ONLY.
ACTUAL FIXING DETAIL SUBJECT TO SITE
CONDITIONS.

AS-BUILT

REV.	DESCRIPTION	BY	DATE
C	GENERAL REVISION	DY	11 2017
B	GENERAL REVISION	DY	10 2017
A	GENERAL REVISION	SI	06 2017

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地利環境 TEAM 73

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DRAWING TITLE
**TYPICAL GREEN ROOF
DETAIL - 5**

DRG. NO. LD-05	C
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A LAYOUT OF SEAM CLIP FIXING
SCALE 1:25

AUTOMATIC SPRINKLER SYSTEM

PLANT
(*Arachis duranensis*,
蔓花生)

150MM MANUFACTURED
GROWING MEDIA

CONNECTION PIPE

SEAM CLIP FIXING GREEN ROOF
COMPONENTS TO METAL ROOF

FILTER LAYER

50MM DRAINAGE MAT
WITH WATER
RETENTION CAPABILITY

MOISTURE
RETENTION MAT

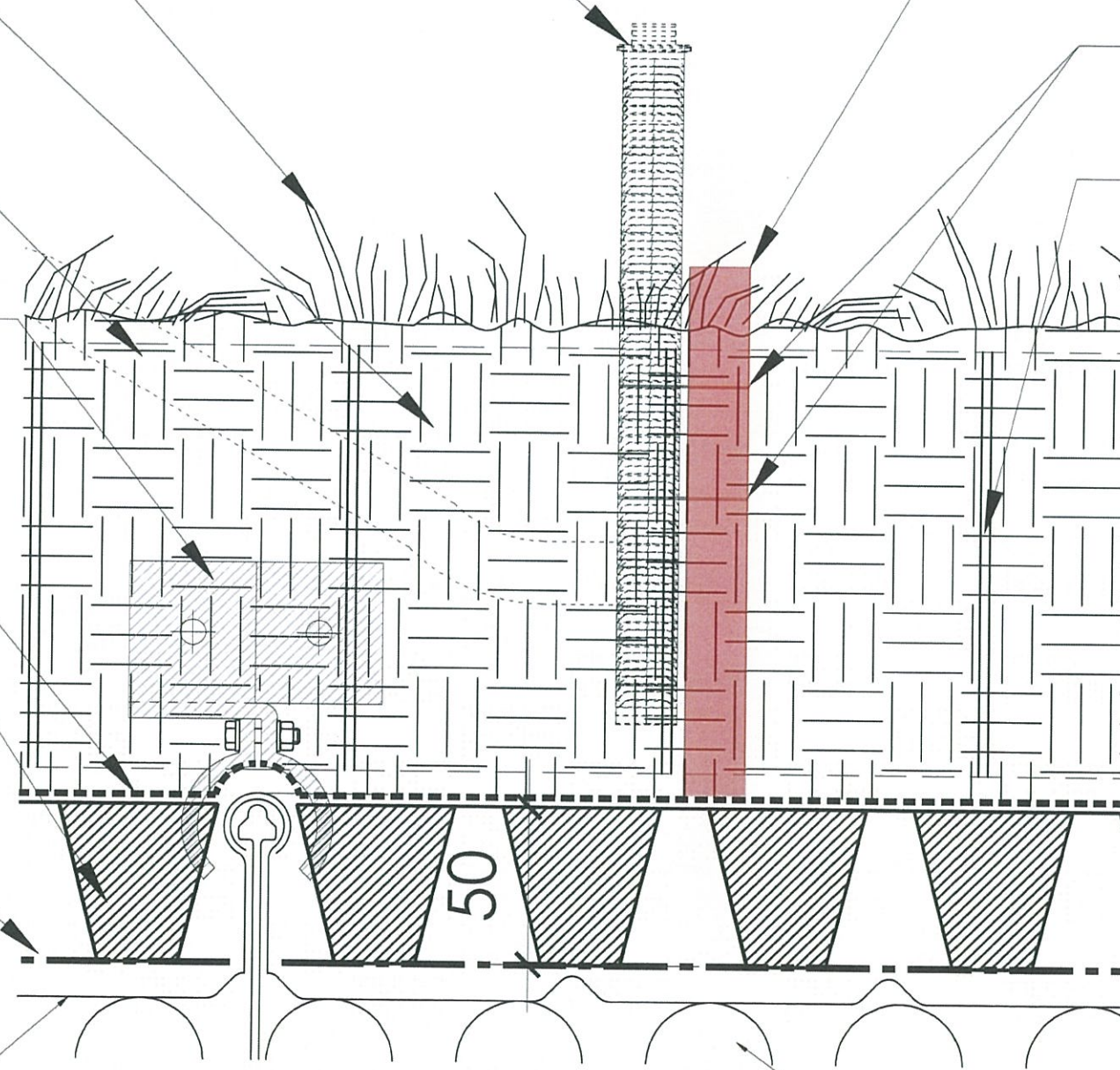
ALUM. TAPERED
PROFILE SHEETS BY
OTHERS

VP PIPES FOR
FIXING SPRINKLER
WITH PLASTIC TIES

PLASTIC TIES

150MM CELLULAR
CONFINEMENT
SYSTEM

INSULATION LAYER
BY OTHERS



D BLOW-UP DETAIL
SCALE 1:2

NOTES:
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-	GENERAL REVISION	SI	07 2018
DATE	CHECKED	DATE	DATE

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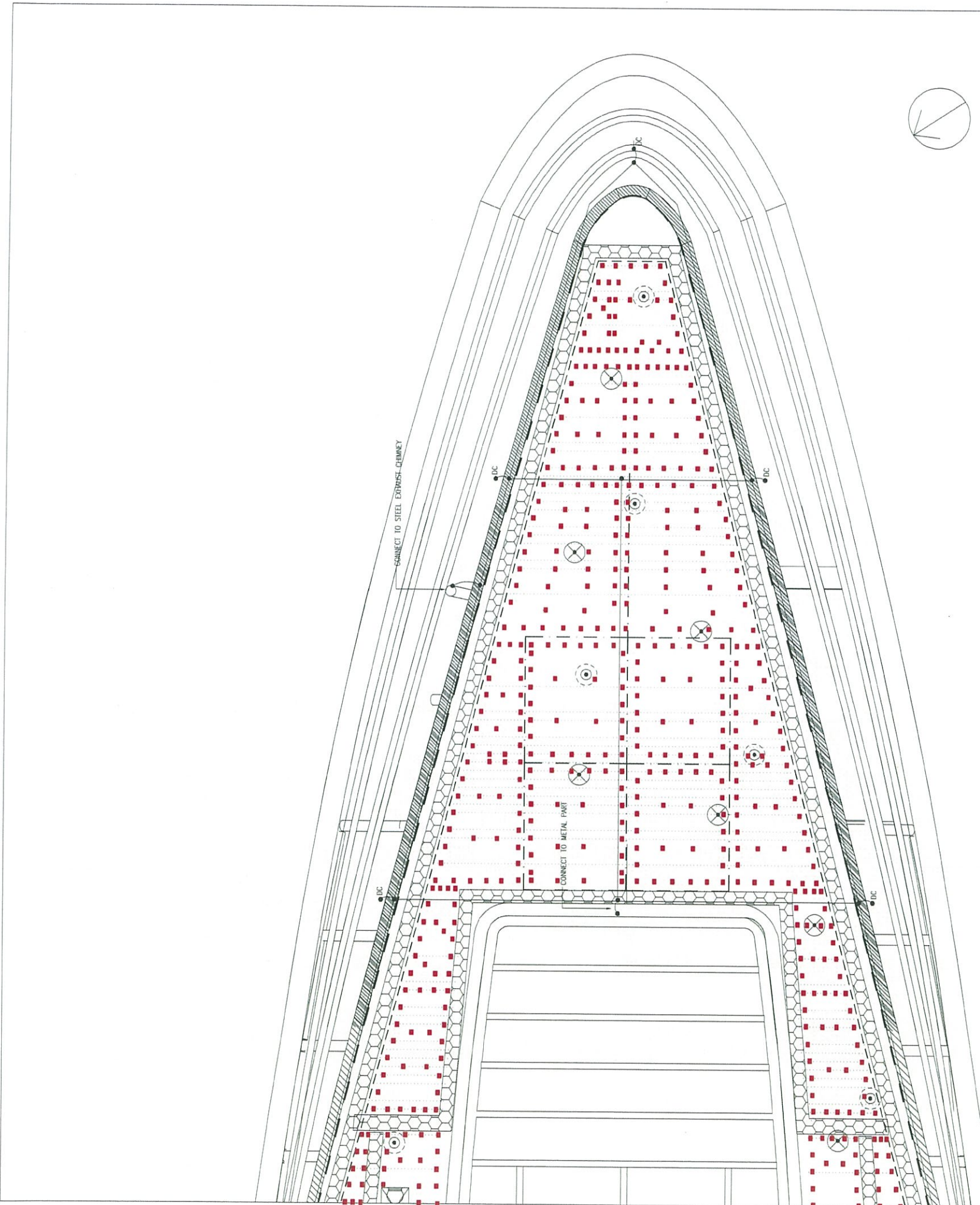
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DRAWING TITLE
**WAN CHAI N-POINT BYPASS
WVB TYPICAL GREEN ROOF
DETAIL - 6**

DRG. NO. LD-06

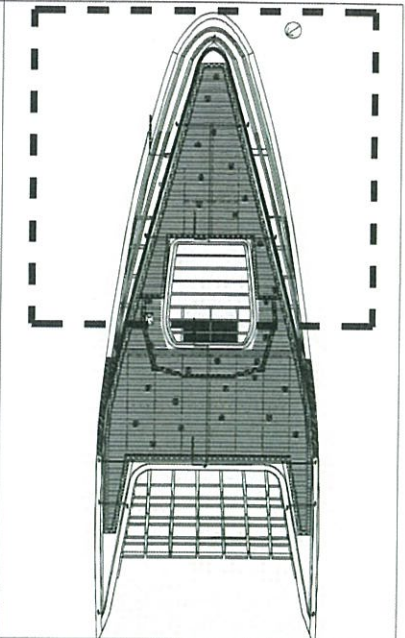
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LEGEND:

■ Aluminium Seam Clip



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修訂	修訂內容	檢核	日期
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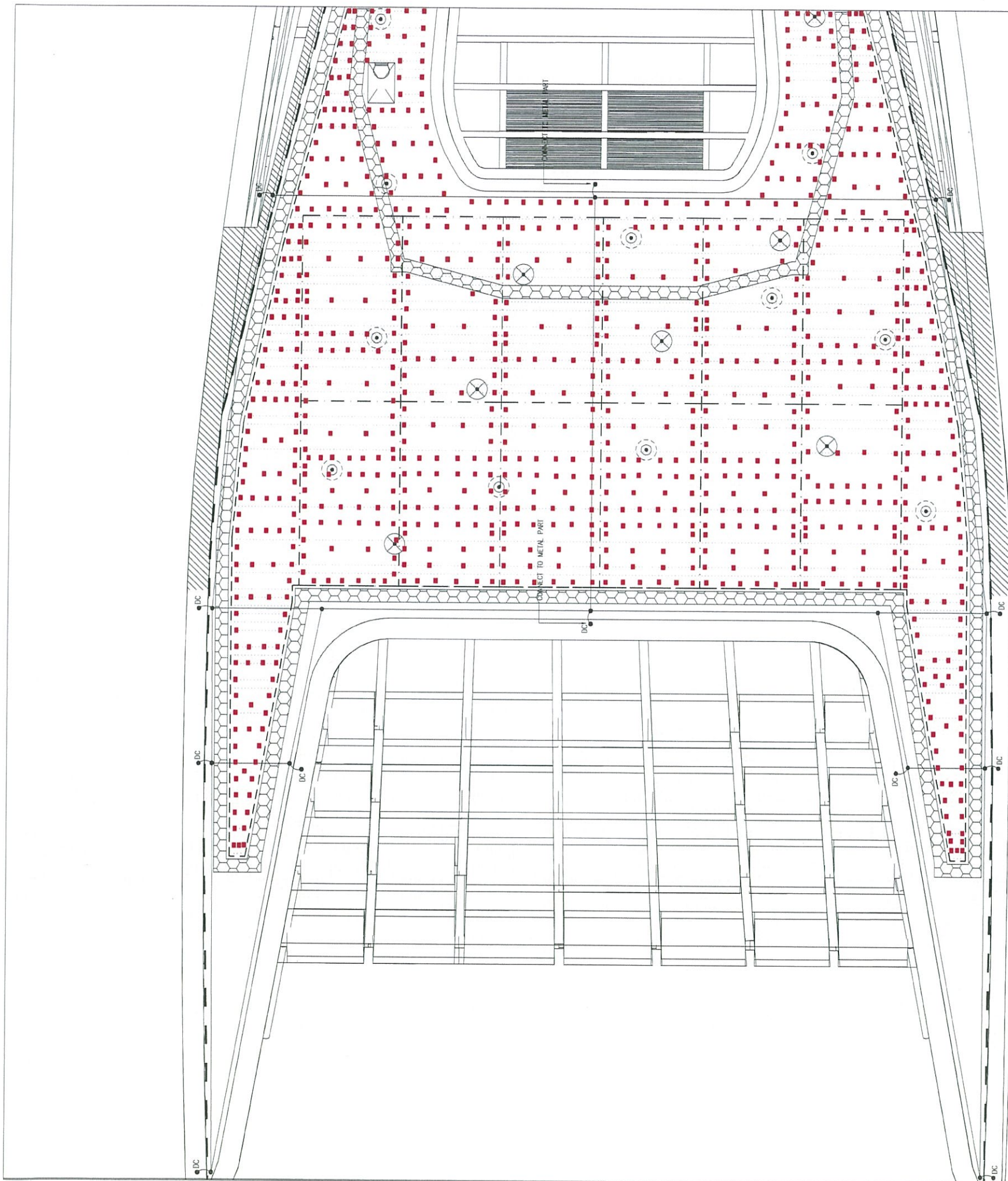
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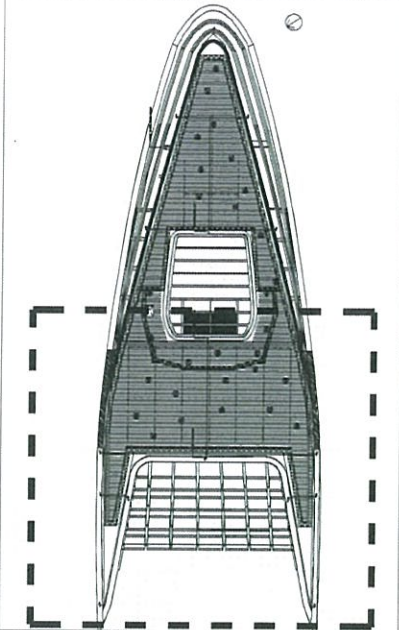
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**LAYOUT PLAN OF
 ALUMINIUM SEAM CLIP**

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DRAWN BY 繪圖	HY/2011/08	
SCALE 比例	1:200@A3	STATUS 圖況
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LEGEND:

■ Aluminium Seam Clip



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A	GENERAL REVISION	DY	10 2017
CAD FILE		CHECKED BY	日期

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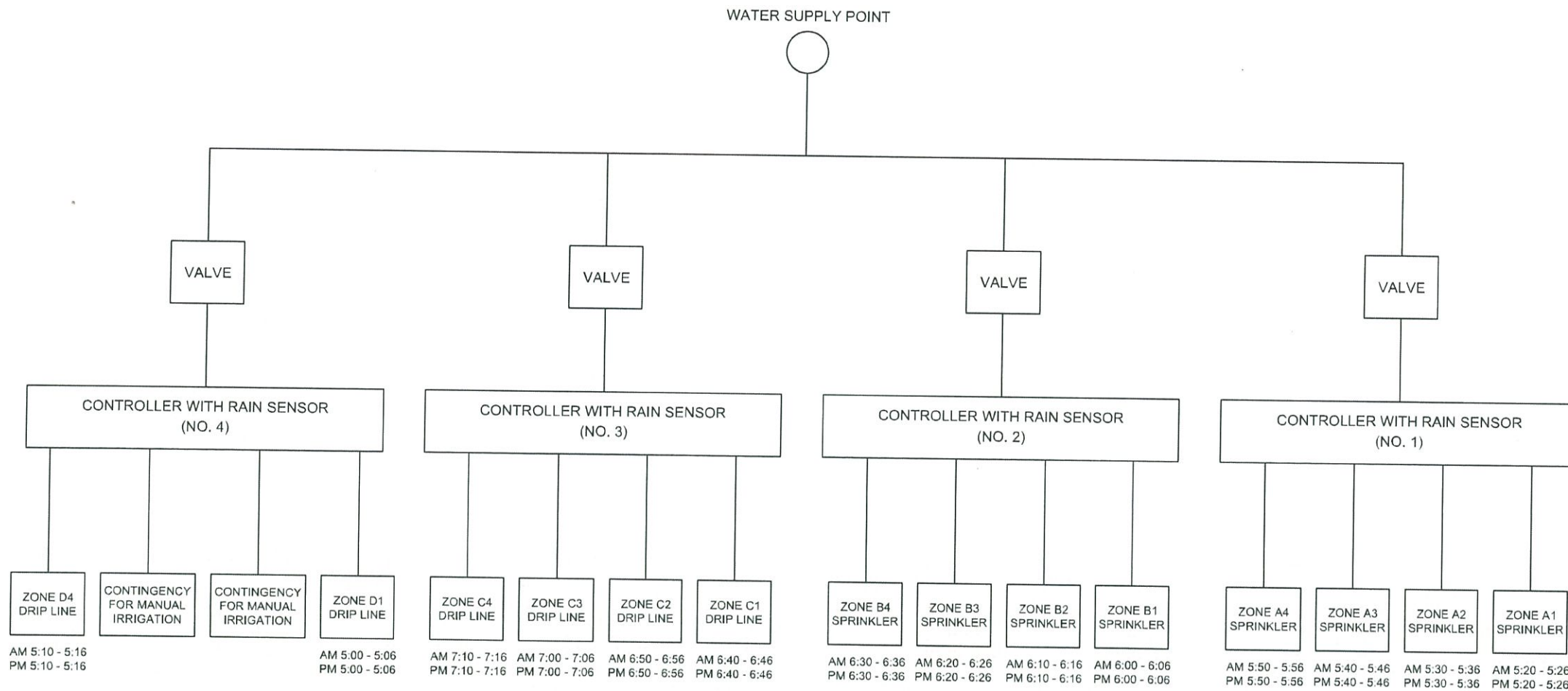
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 地利環境
TEAM 73

LANDSCAPE SUB-CONTRACTOR
WAH LAI CONTRACTORS LTD

DRAWING TITLE
**LAYOUT PLAN OF
ALUMINIUM SEAM CLIP**

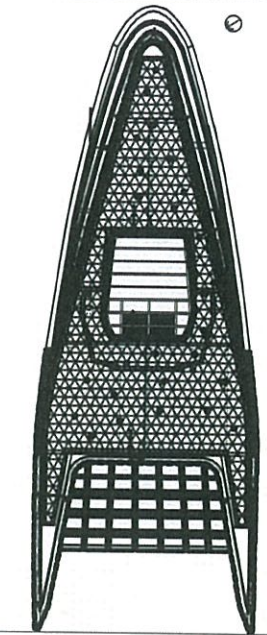
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SCHEMATIC DIAGRAM FOR AUTOMATIC IRRIGATION SYSTEM



KEYPLAN

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B	GENERAL REVISION	DY	04 2019
A	GENERAL REVISION	DY	10 2017

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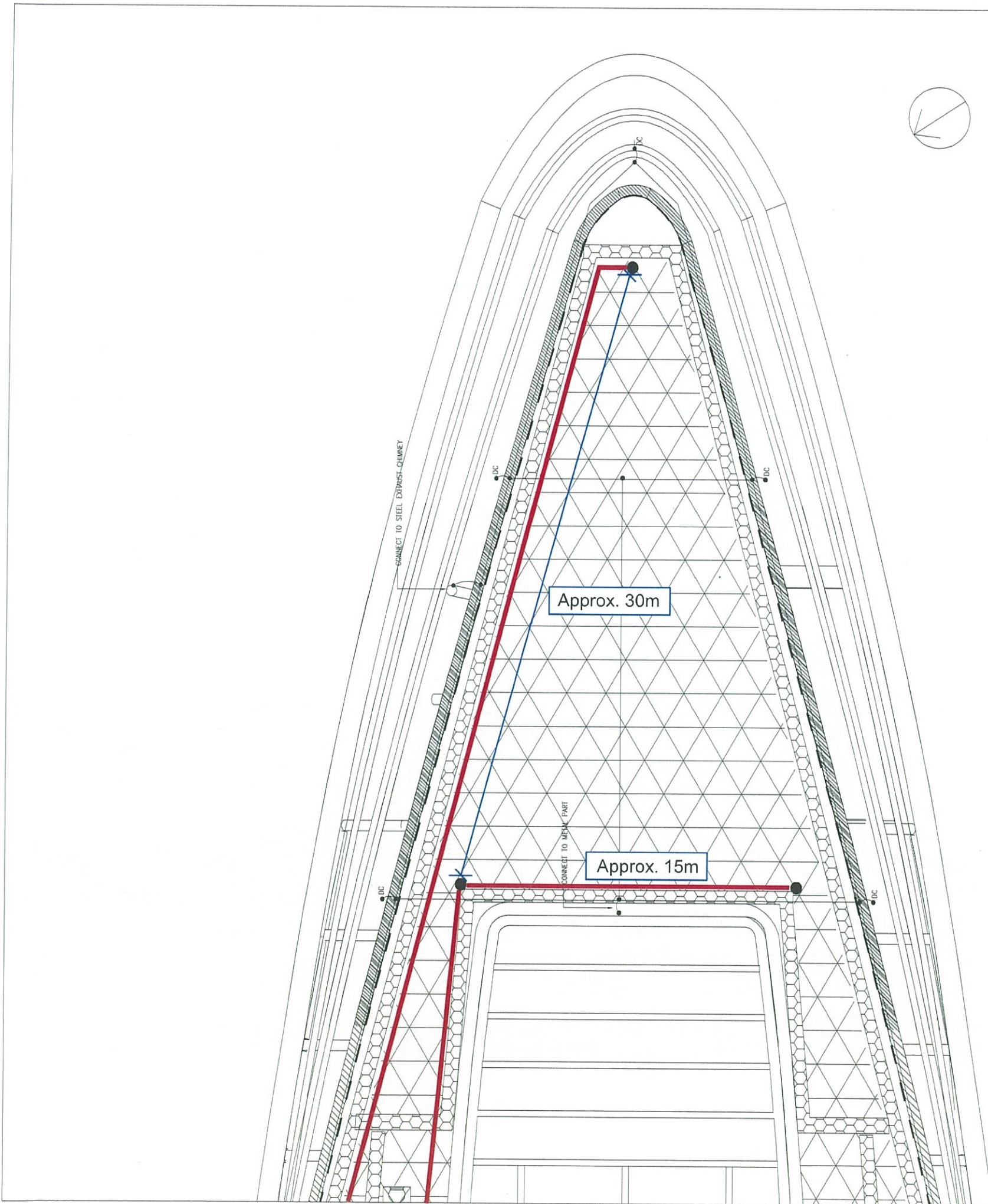
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DRAWING TITLE
 SCHEMATIC DIAGRAM FOR AUTOMATIC IRRIGATION SYSTEM

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DRAWN BY HY	STATUS REV. 01	
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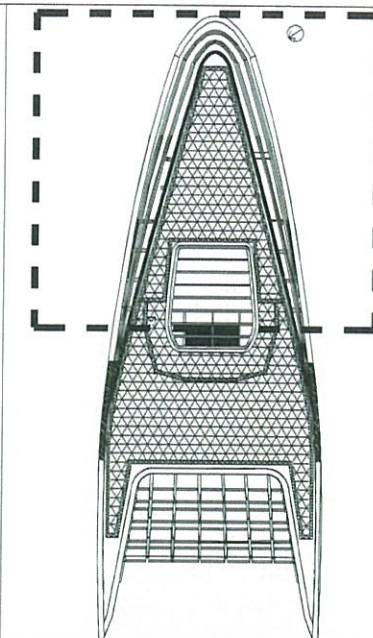
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LEGEND:

● Back Up Water Point

— VP Pipe



KEYPLAN

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 LEIGHTON JOINT VENTURE

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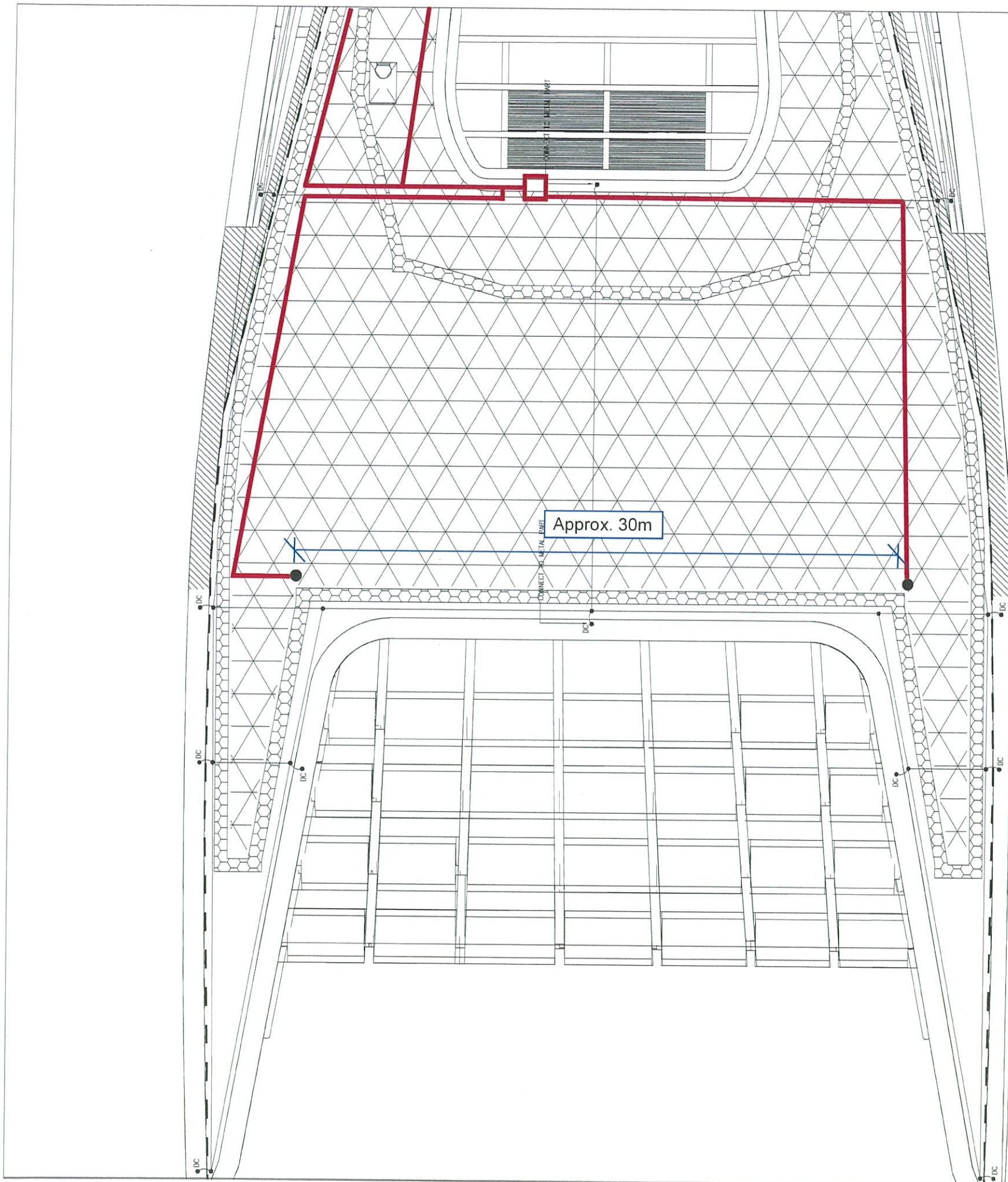
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DRAWING TITLE
LAYOUT OF BACK UP WATER POINT

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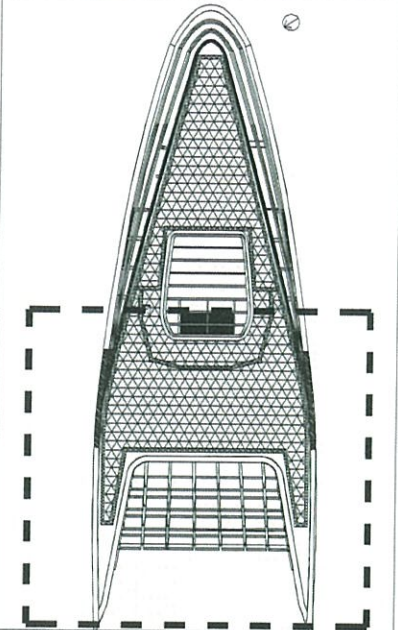
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LEGEND:

- Back Up Water Point
- VP Pipe



KEYPLAN

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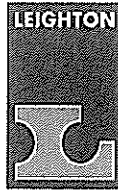
LANDSCAPE SUB-CONTRACTOR
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DRAWING TITLE
**LAYOUT OF BACK UP
WATER POINT**

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DESIGN BY 設計	CONTRACT NO. 合約編號	APPROVED BY 批准
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Contractor's Submission Form



Leighton Joint Venture
 39/F Sun Hung Kai Centre
 30 Harbour Road, Hong Kong
 t: +852 2823 1111
 f: +852 2529 8784
 e: info@leightonasia.com

Ref: H2613/CSF/OPR/03722-R0

Date: 19-Sep-2019

Contract: HY/2011/08- Central-Wan Chai Bypass - Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning

To: Engineer's Representative, The Chief Resident Engineer Mr. David Kwan
 Your Ref.: .

Title of Submission: As-built Drawings of EVB Green Roof

Specification:

We are pleased to submit the following for your review and comment

Description:

We submit herewith the as-built drawings of EVB Green Roof for your record.

- 3 OCT 2019

Team	Info	Action
OM		
Site Agent		
PD		
PM/DPM		
Comm M		
CM (Bldg)	/	
CM (Civil)		
EM		
Prog		
Safety		
Env		/
Quality		
Survey		
Admin		
Site		
External Works		
Remarks:		

Purpose of Submission: For Record, Reference or Information

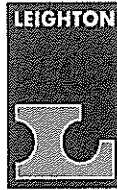
Contractor's Representative Signature: *Colman Wong*
 Date: 19-Sep-2019

Name: Colman Wong
 Position: Joint Venture's Representative

Distribution: CW / JC / HYL
[Signature]

Prepared by: Jonas LAM *[Signature]*

Contractor's Submission Form





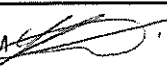
Leighton Joint Venture
39/F Sun Hung Kai Centre
30 Harbour Road, Hong Kong
t: +852 2823 1111
f: +852 2529 8784
e: info@leightonasia.com

Ref: H2613/CSF/OPR/03722-R0

Date: 19-Sep-2019

Contract: HY/2011/08– Central-Wan Chai Bypass – Tunnel Buildings, Systems and Fittings, and Works
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Specification: We are pleased to submit the following for your review and comment	
Description: We submit herewith the as-built drawings of EVB Green Roof for your record.	
Purpose of Submission:	For Record, Reference or Information
Contractor's Representative Signature:	Date: 19-Sep-2019
	
Name: Colman Wong Position: Joint Venture's Representative	
Distribution: CW / JC / HYL 	

Prepared by: Jonas LAM 

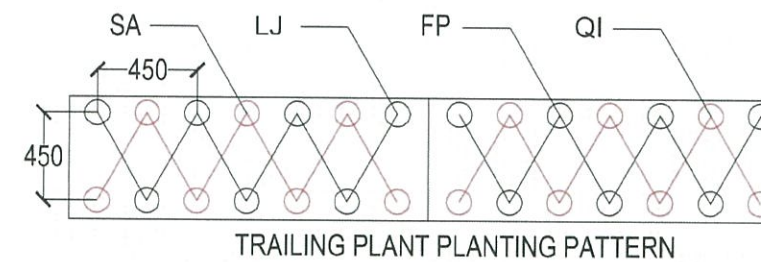
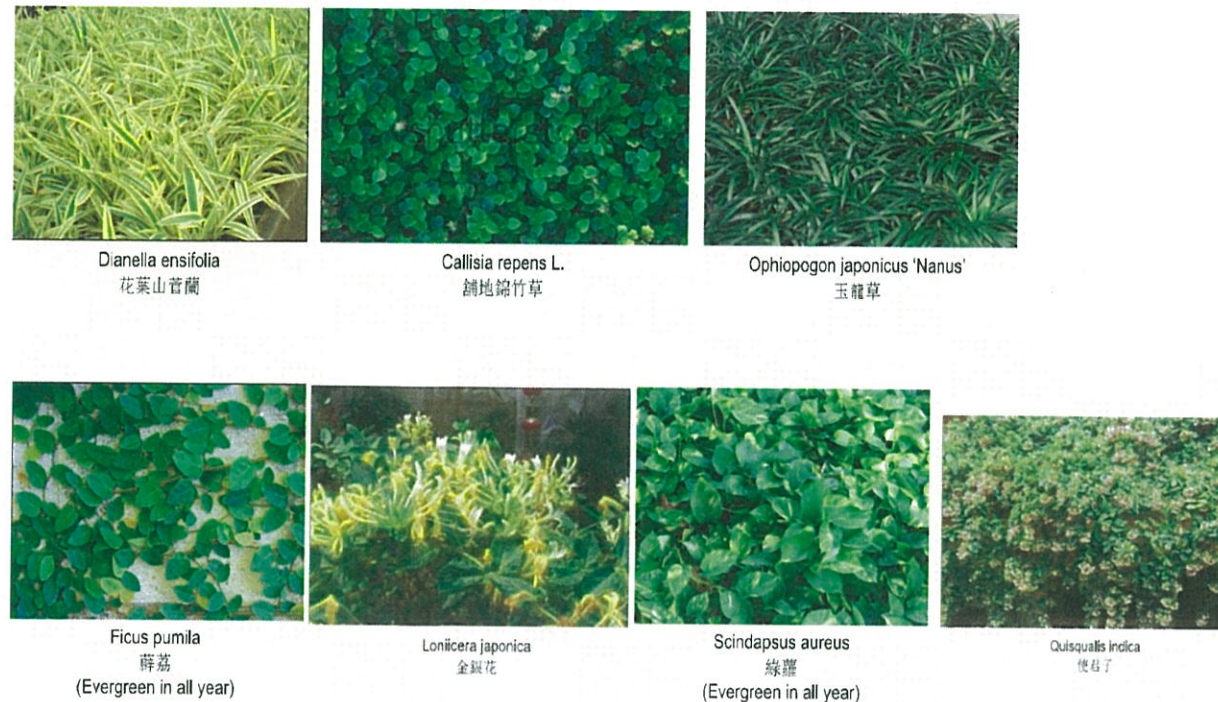


A EVB GREEN ROOF PLAN
IMAGE 1:300



B PROPOSED IRRIGATION SYSTEM
IMAGE 1:500

PLANTS REFERENCE IMAGES :



PLANTING SCHEDULE (for green roof)

Key	Botanical Name	Chinese Name	Size(mm), HLXSpd.	Spacing(mm)	NO. / m2	Quantity	Remarks
Small Shrub							
Dev	Dianella ensifolia ' variegata'	花葉山菅蘭	200(H) x 300(S)	200	29	5016	Plant all species in a staggered pattern
Groundcover / Grass							
Cr1	Callisia repens L.	鋪地錦竹草	100(H) x 100(S)	100	115	13204	Plant all species in a staggered pattern
Ojn	Ophiopogon japonicus 'Nanus'	玉龍草	100(H) x 150(S)	100	115	35930	Plant all species in a staggered pattern
Climber / Groundcover							
FP	Ficus pumila (25%)	薜荔	1000 long	450	nil	114	Plant all species in staggered pattern, 3 shoots at least
LJ	Lonicera japonica (25%)	金銀花	1000 long				
SA	Scindapsus aureus (25%)	綠蘿	1000 long				
QI	Quisqualis Indica (25%)	使君子	1000 long				

C PROPOSED PLANT SCHEDULE
TABULATION NTS

AS-BUILT

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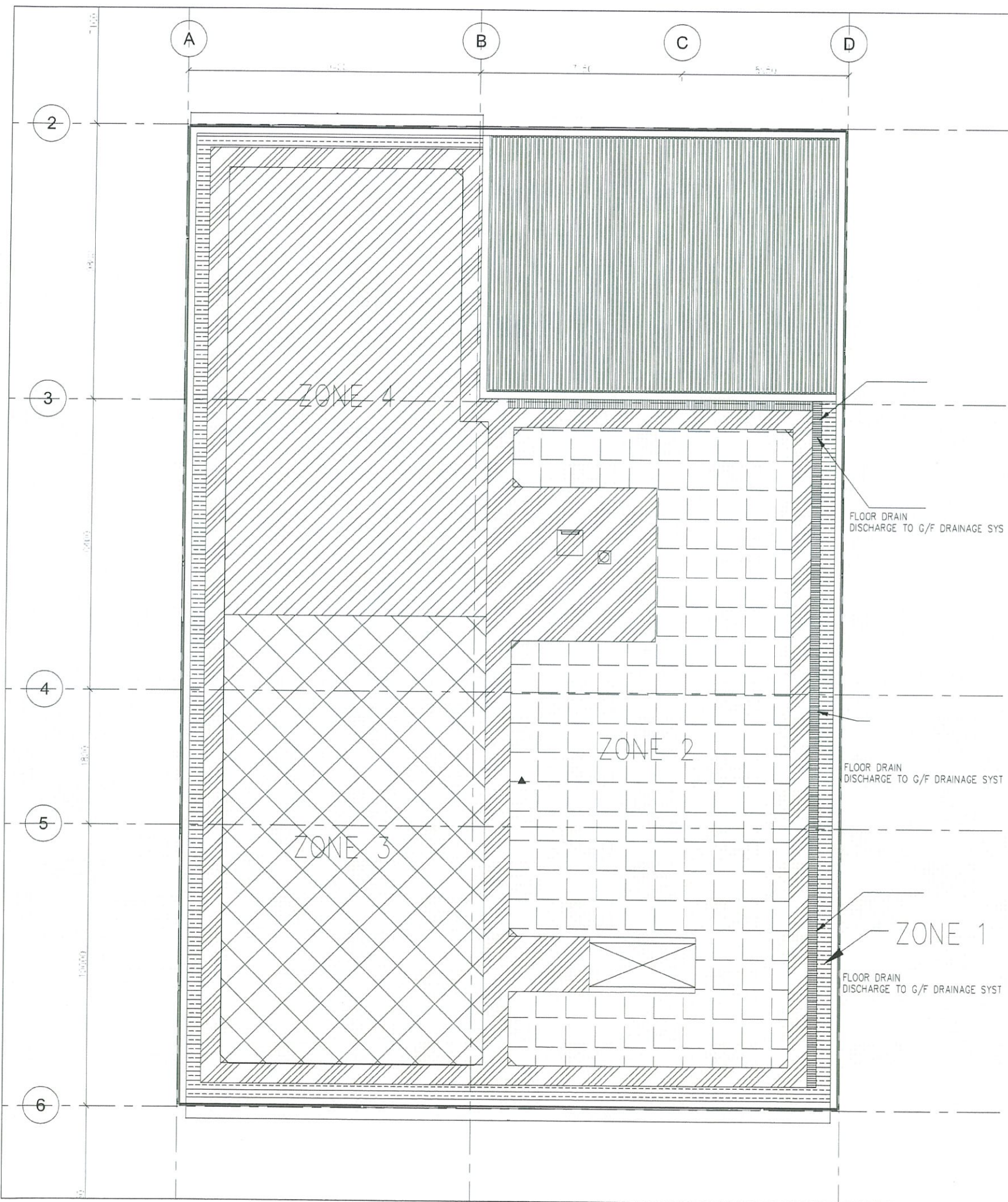
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EVB GREEN ROOF LAYOUT, DETAIL, & SCHEDULE

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LEGEND

- ZONE 1
- ZONE 2
- ZONE 3
- ZONE 4
- MAINTENANCE PATH

* 4 Independent Irrigation Zone control by Hydro 4* and Rain Sensor
 * For technical information and user manual, please refer to Appendix A

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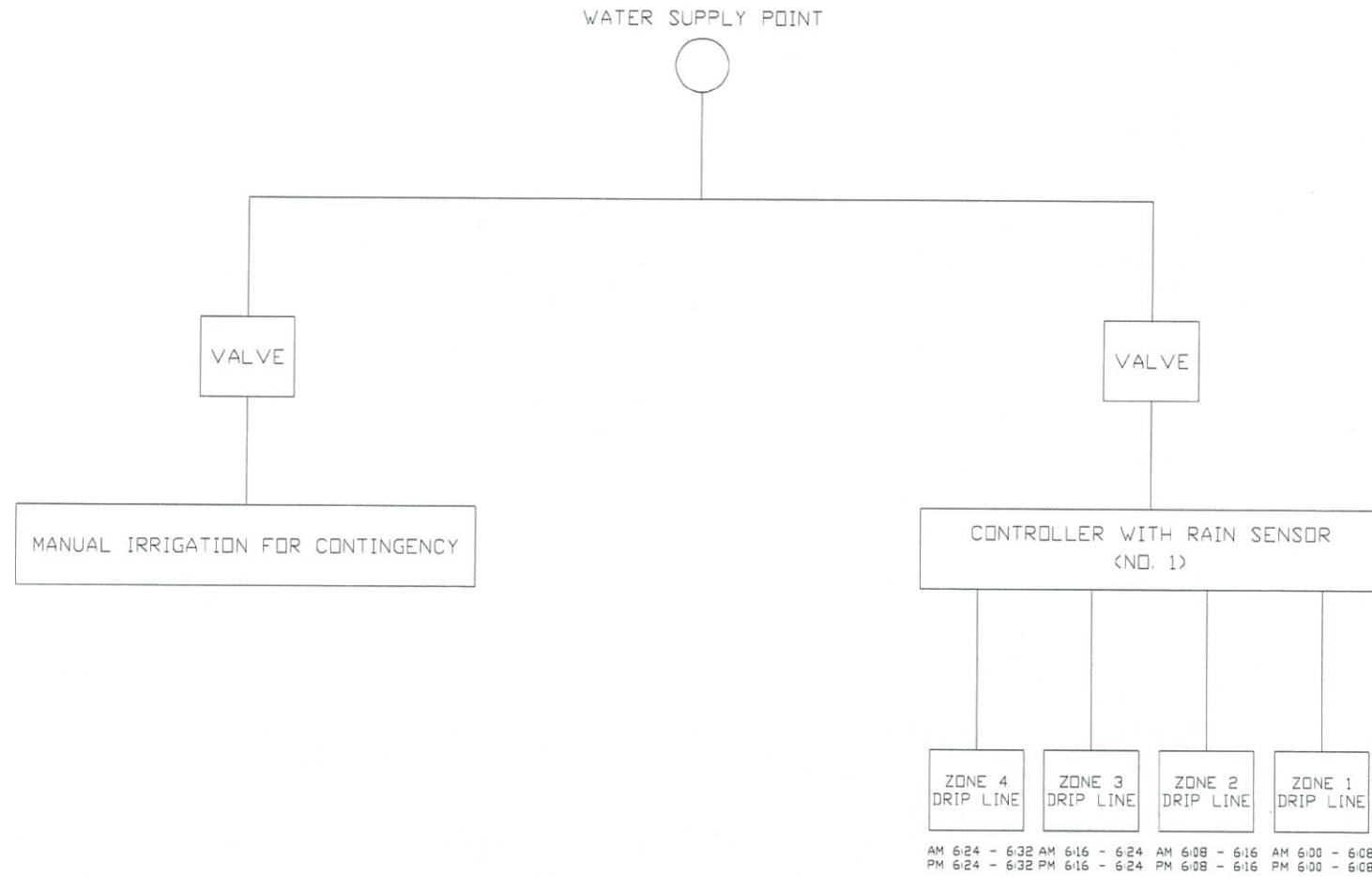
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DRAWING TITLE
ZONING PLAN FOR IRRIGATION

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SCHEMATIC DIAGRAM FOR AUTOMATIC IRRIGATION SYSTEM

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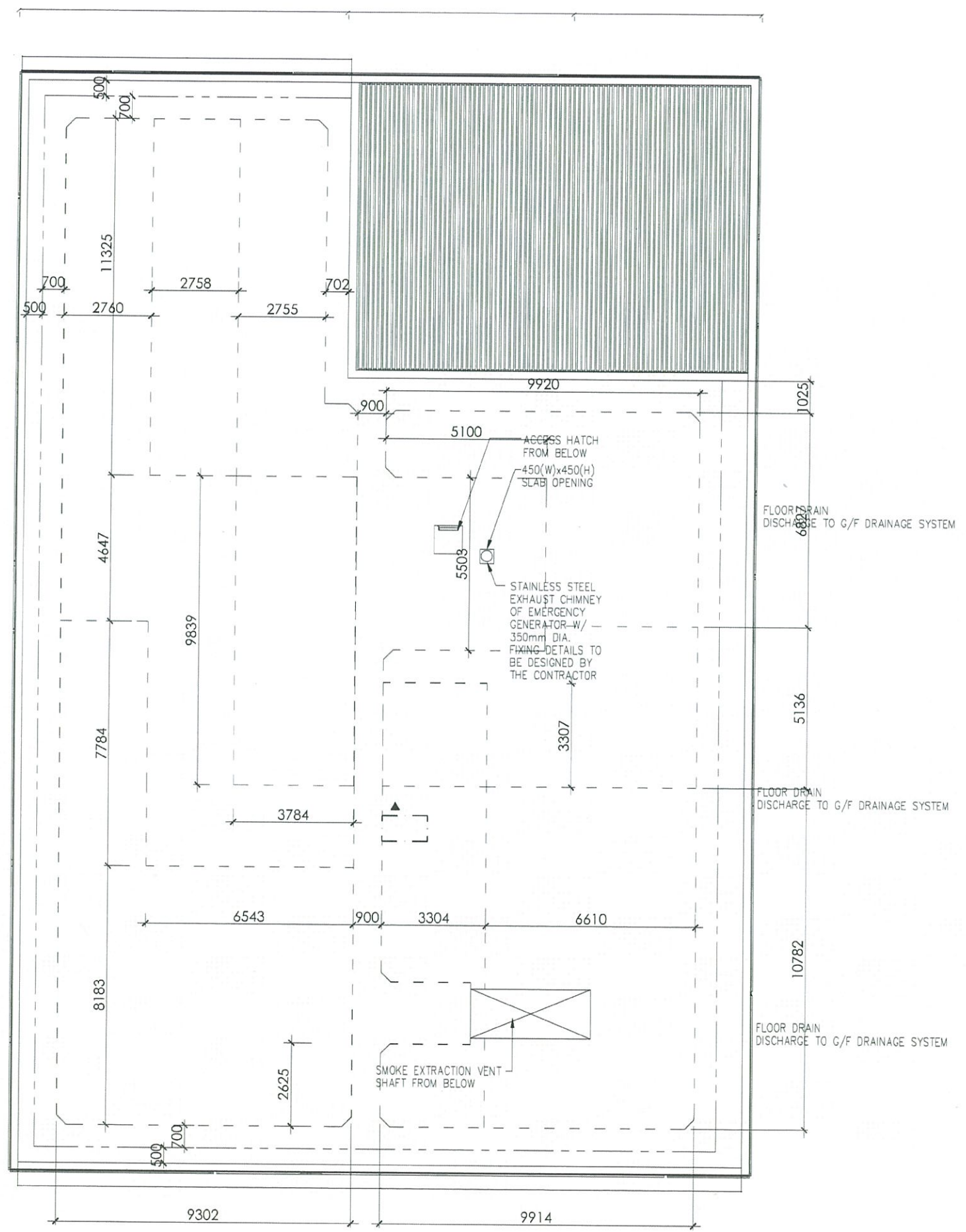
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DRAWING TITLE
SCHEMATIC DIAGRAM FOR AUTOMATIC IRRIGATION SYSTEM

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SCALE NTS		

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LEGEND
 - - - ALUMINUM EDGE (210mm HIGH)
 - - - - ALUMINUM EDGE (410mm HIGH)

AS-BUILT

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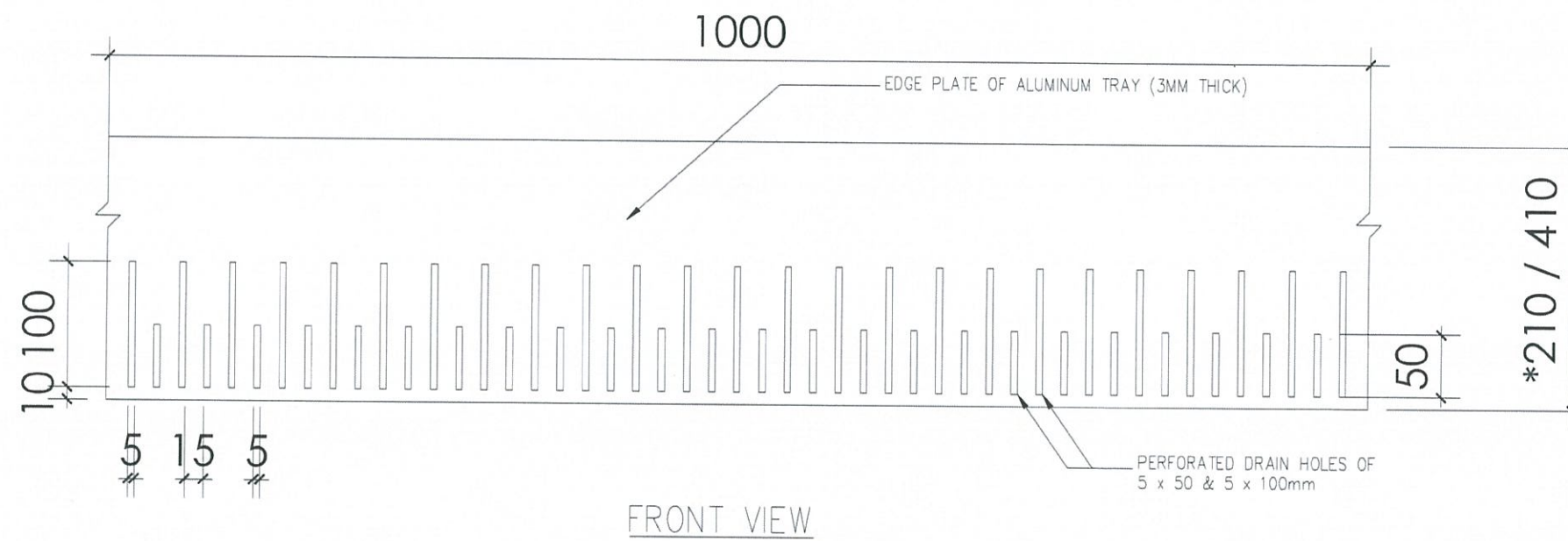
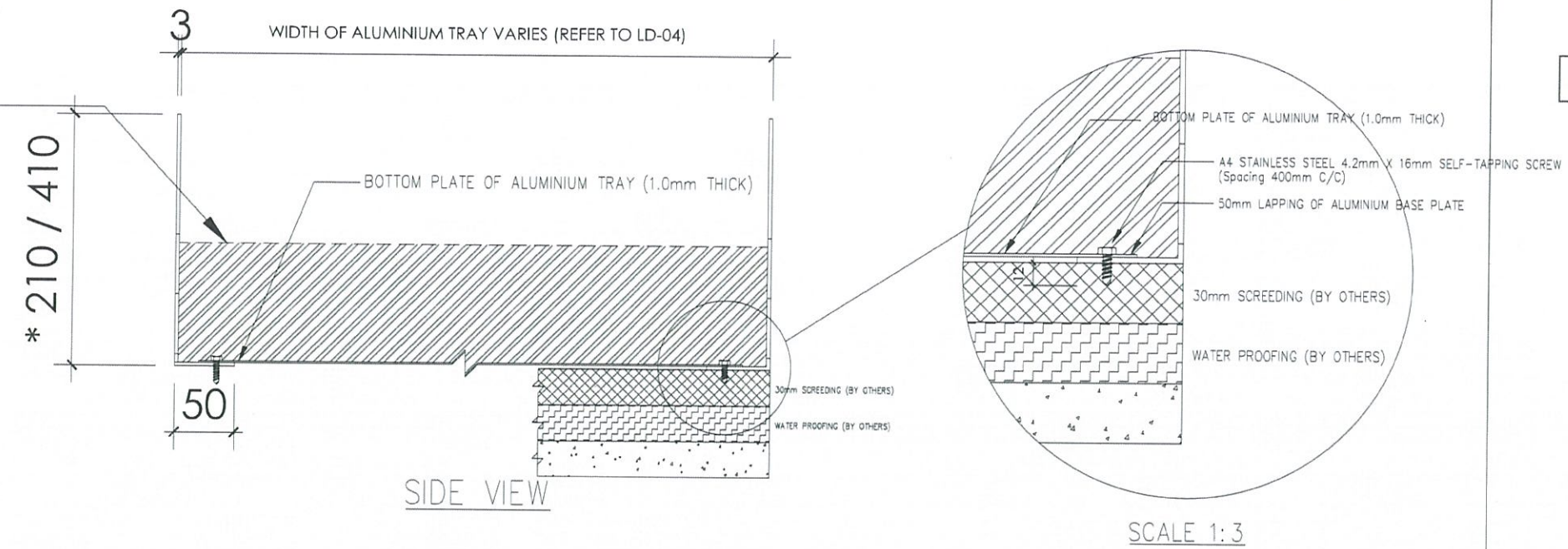
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ALUMINUM EDGE PLAN

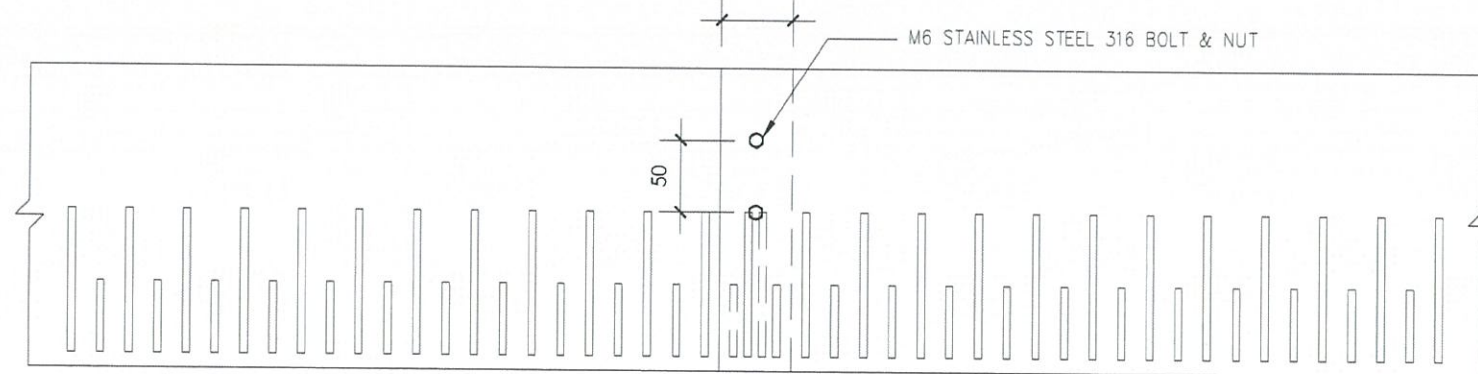
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DRAWN BY LA	APPROVED BY
SCALE 1:150@A3	STATUS
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REMARKS:
 100mm depth of manufactured growing media for
 210mm height of vertical plate of aluminium tray

300mm depth of manufactured growing media for
 410mm height of vertical plate of aluminium tray



100mm OVERLAPPING FOR 410mm HIGH EDGE PLATE
 50mm OVERLAPPING FOR 210mm HIGH EDGE PLATE



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DRAWING TITLE
ALUMINIUM TRAY DETAIL

DWG. NO. LD - 05	A
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CHECKED BY LA	APPROVED BY
SCALE 1:5@A3	DATE
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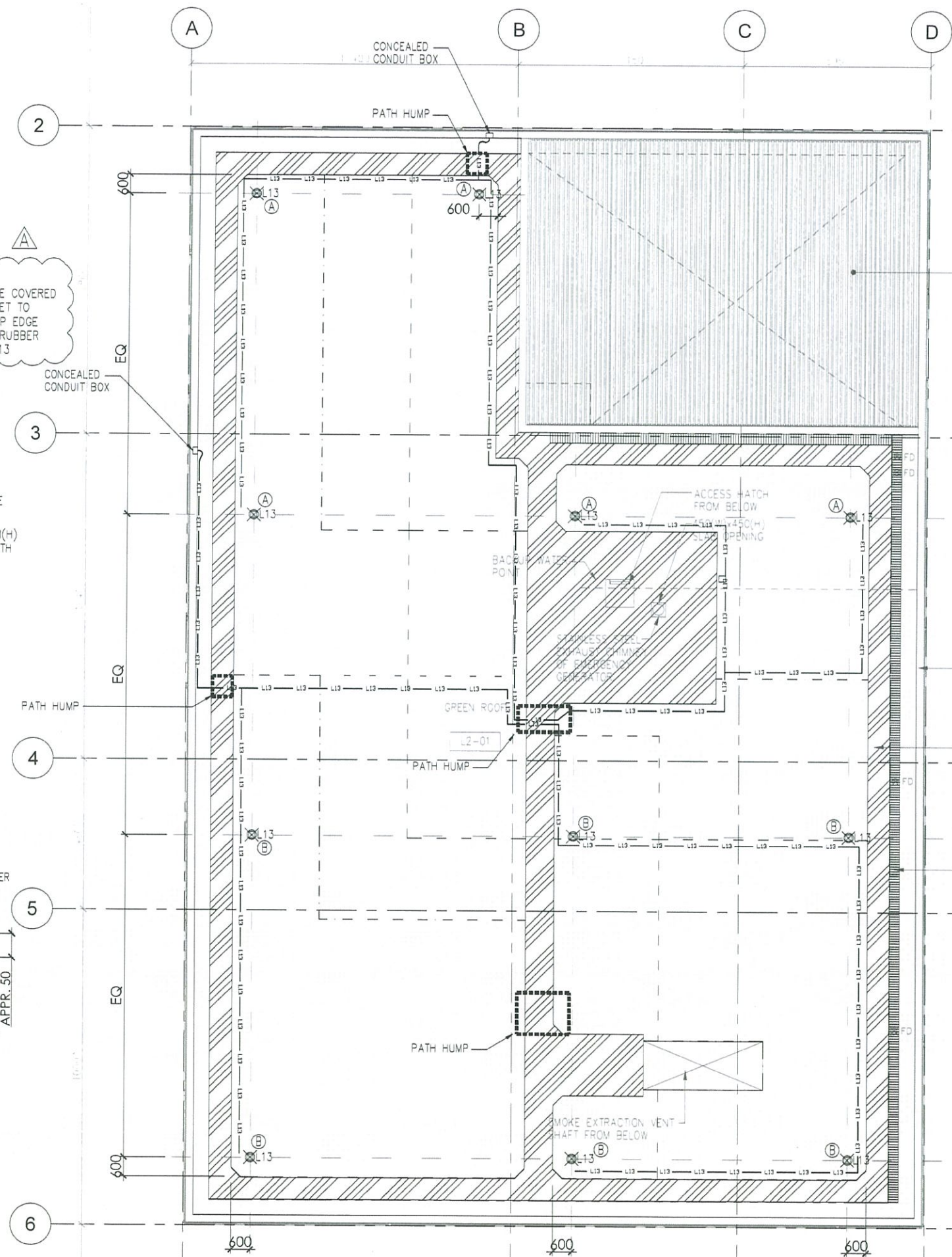
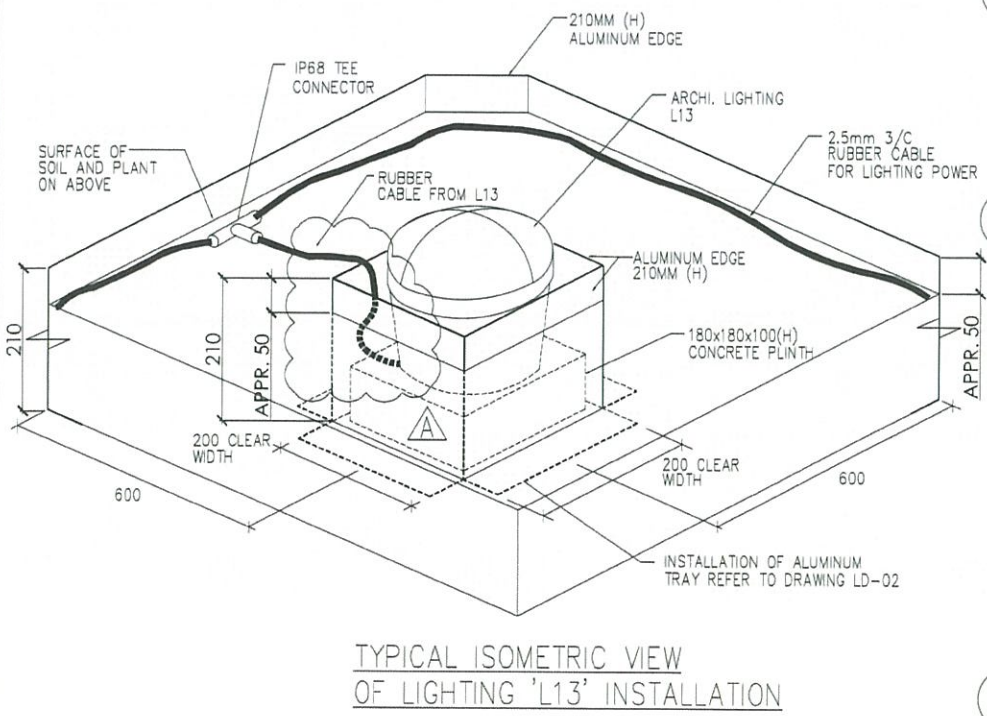
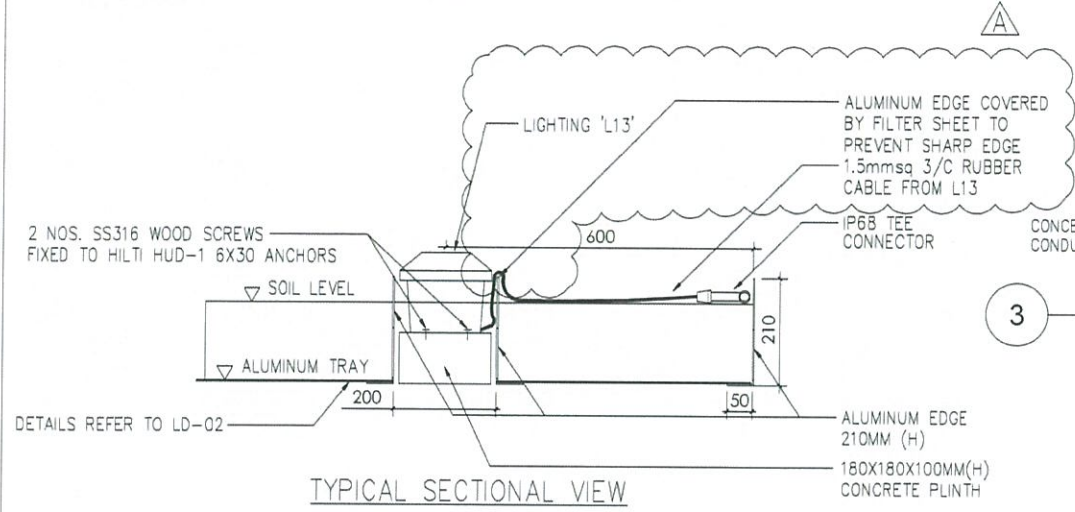
LIGHTING 'L13'



IP68 TEE CONNECTOR



RUBBER CABLE



LEGEND:

ARCHI. LIGHT 'L13' WHERE 'X' DENOTES THE CIRCUITRY: 'A', DB-E10NL1-1L1 'B', DB-E10NL1-1L2

2.5mmsq 3/C RUBBER CABLE (RUNS ADJACENT TO ALUMINUM EDGE OR PARALLEL TO IRRIGATION PIPES)

AS-BUILT

REV	DESCRIPTION	BY	DATE
A	RESUBMISSION AS PER ER'S COMMENTS		AUG18
-	FIRST SUBMISSION AS PER MEETING 11 MAY 18		MAY18

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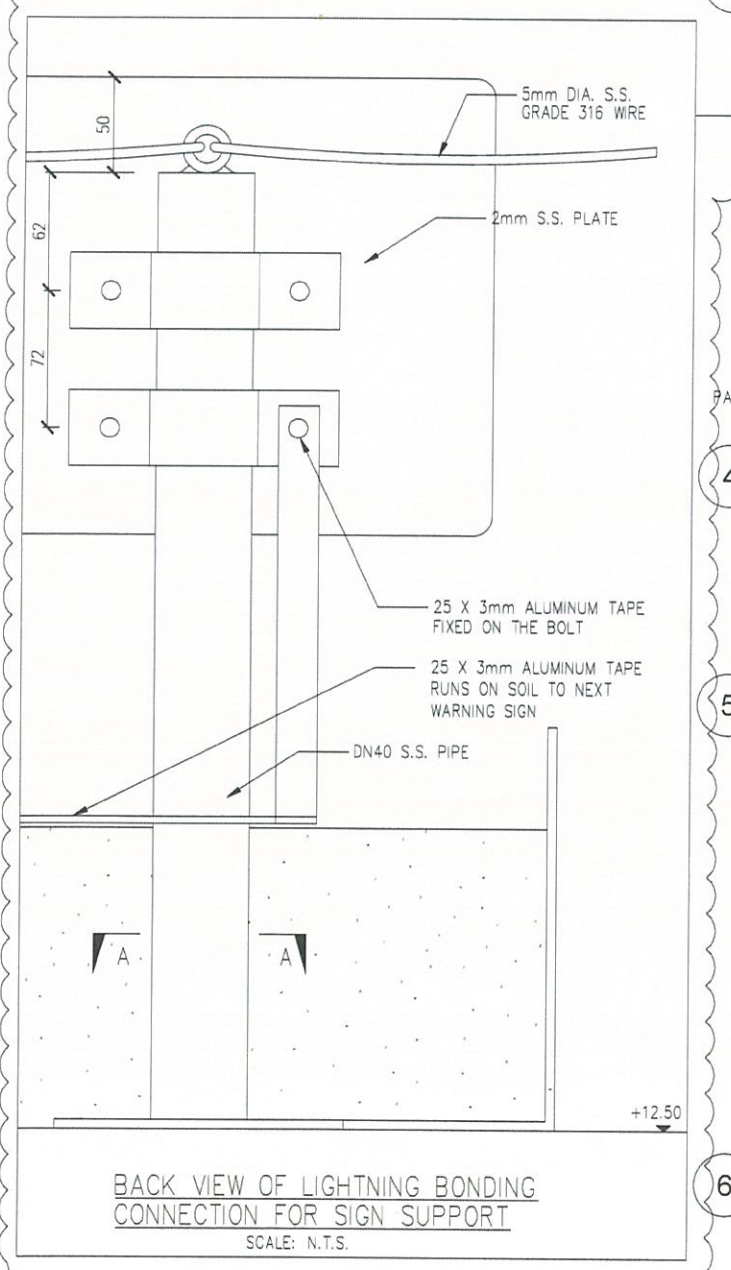
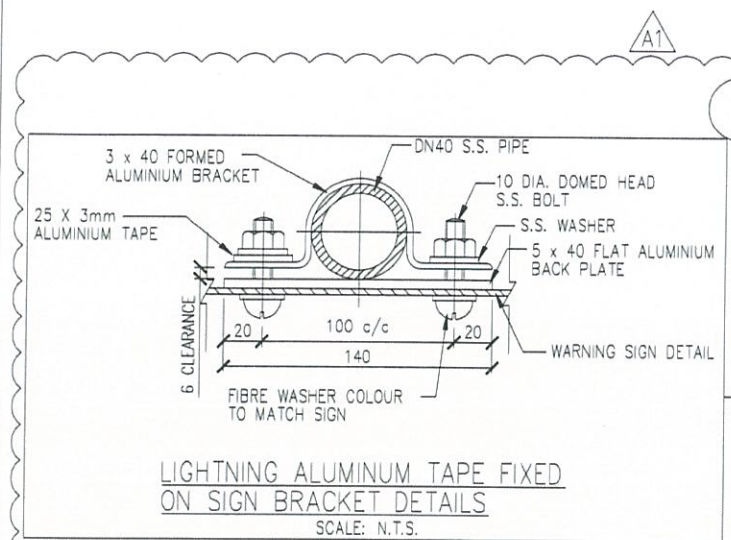
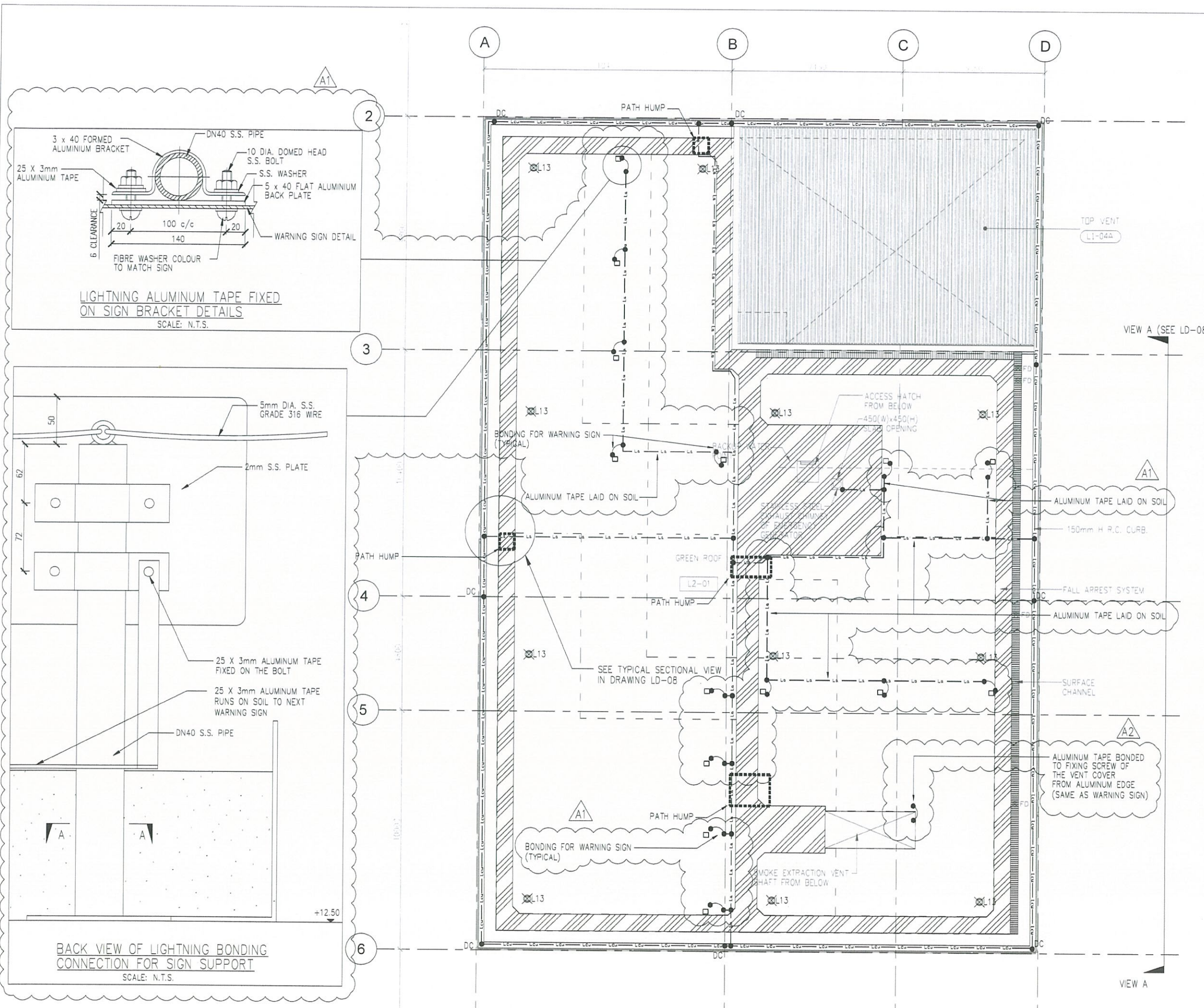
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LEIGHTON
LEIGHTON JOINT VENTURE

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DRAWING TITLE
LIGHTING AND CABLE LAYOUT PLAN

DWG. NO. LD-06

DESIGN BY: LA	CONTRACT NO: HY/2011/08	APPROVED BY:
DRAWN BY: LA	STATUS:	
SCALE: 1:150@A3		
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LEGEND:

— Leu — Leu — 25X3mm TINNED COPPER TAPE

— La — La — 25X3mm BARE ALUMINIUM TAPE

NOTES:

- PROPRIETARY BIMETALLIC CONNECTORS ARE PROVIDED FOR CONNECTION BETWEEN TINNED COPPER TAPE AND BARE ALUMINIUM TAPE
- BITUMEN PAINT IS APPLIED BETWEEN STAINLESS STEEL AND GMS WHERE NYLON WASHER IS NOT APPLICABLE

A1 ALUMINUM TAPES FOR BONDING TO ADDITIONAL WARNING SIGNS

A2 UPDATES AS PER COMMENTS

AS-BUILT

REV	DESCRIPTION	BY	CHK	DATE
A	REVISED FOR APPROVAL			AUG18
-	FIRST SUBMISSION AS PER MEETING 11 MAY 18			MAY18

Highways Department 路政署
 Major Works Project Management Office
 CENTRAL - WAN CHAI BYPASS AND IEG LINK
 TUNNEL BUILDINGS, SYSTEMS AND FITTINGS,
 AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

CONSULTANT ENGINEER
AECOM
 AECOM Asia Co. Ltd.

CONTRACTOR
LEIGHTON
 LEIGHTON JOINT VENTURE

CONSULTANT LANDSCAPE

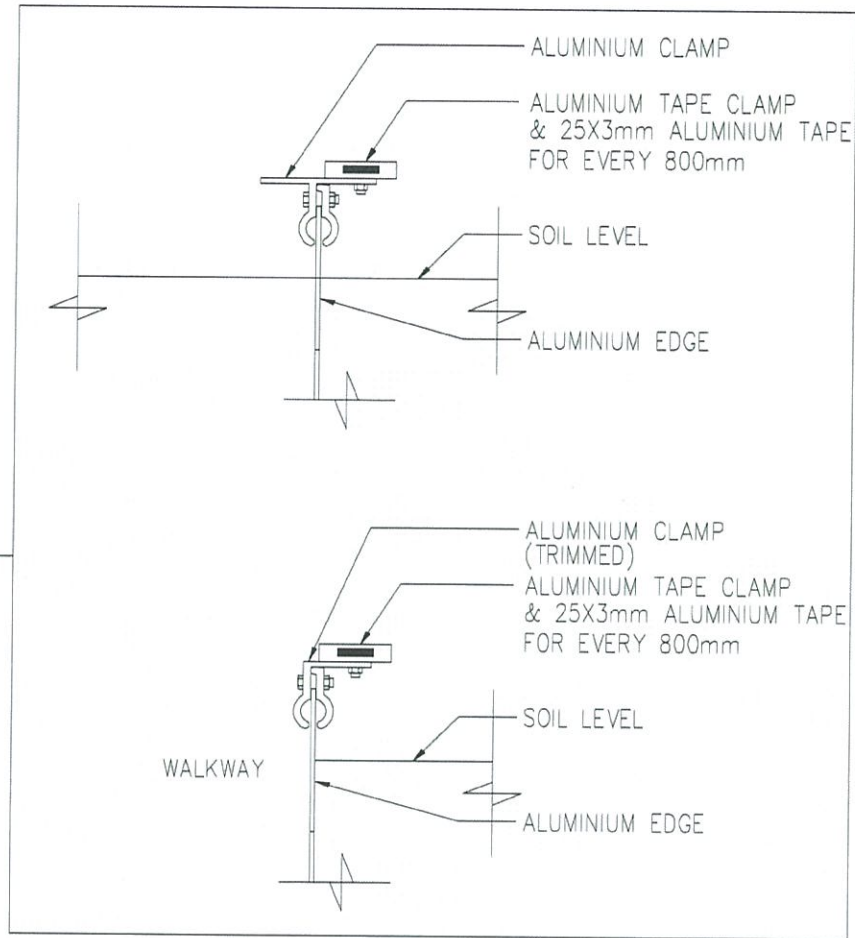
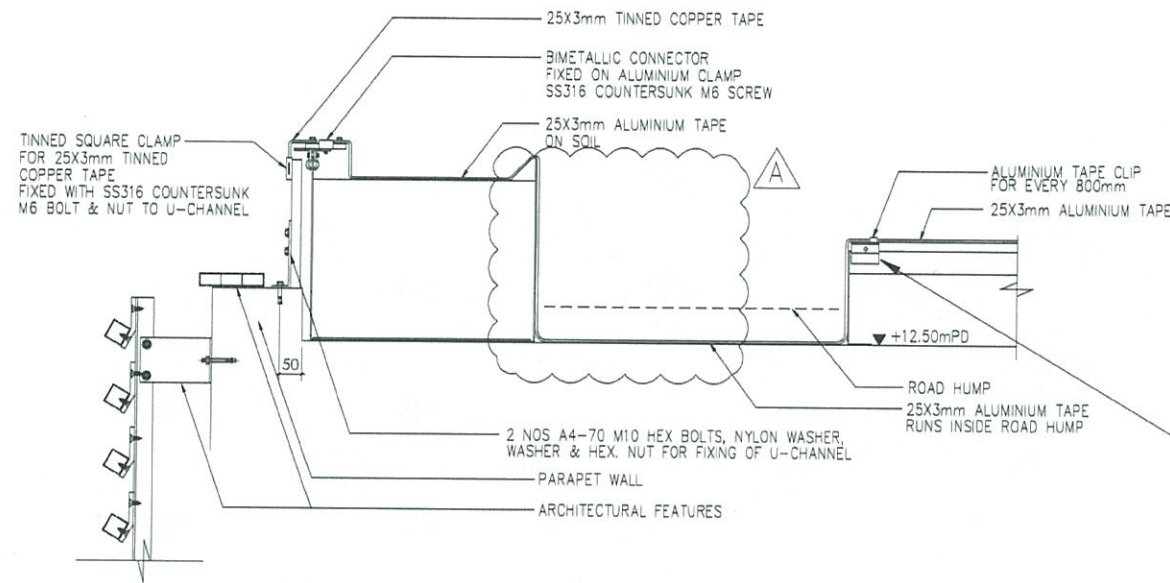
DRAWING TITLE
LIGHTNING PROTECTION LAYOUT PLAN ON GREEN ROOF

DWG. NO. LD - 07

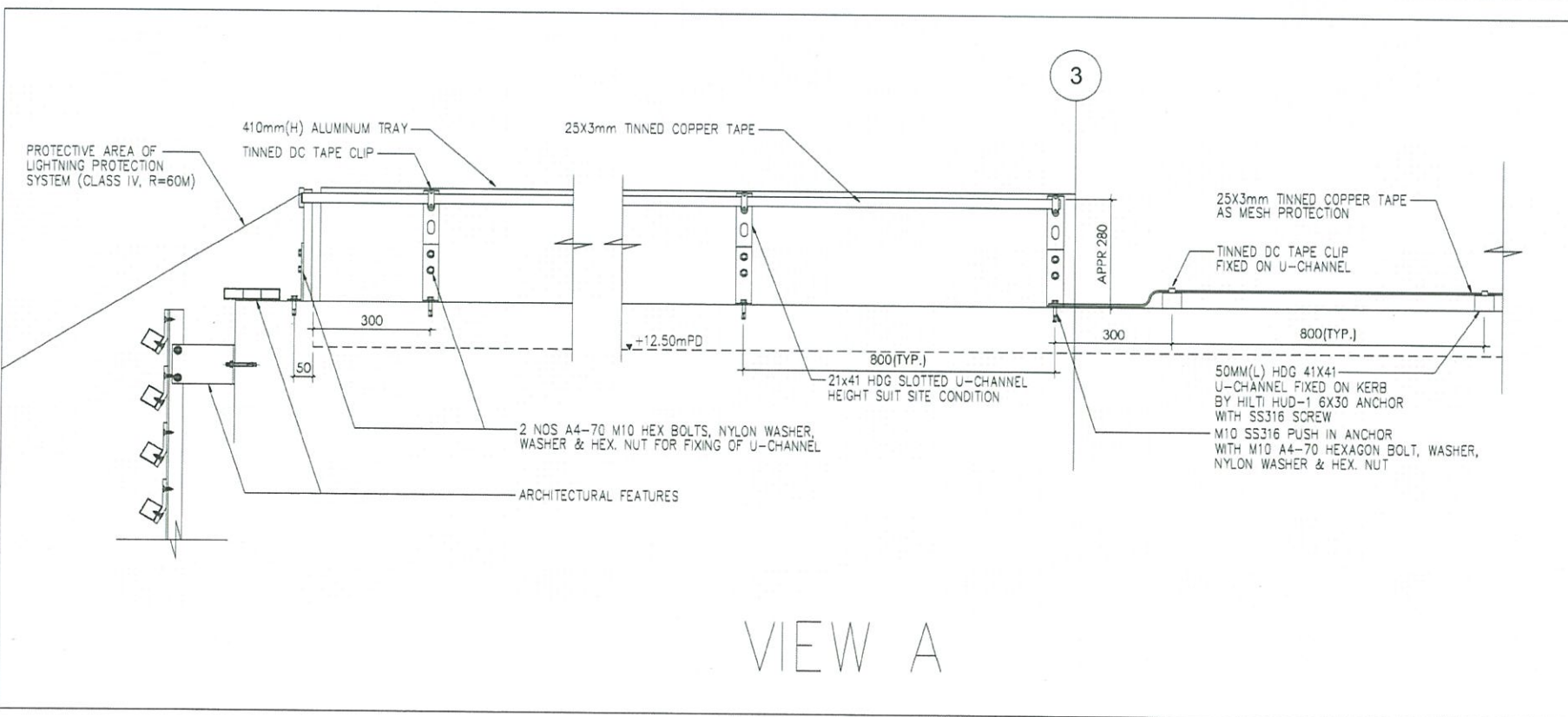
DESIGN BY LA	CONTRACT NO. HY/2011/08	APPROVED BY
DRAWN BY LA	STATUS	
SCALE 1:150@A3		

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AS-BUILT



VIEW A

REV	DESCRIPTION	BY	CHECK	DATE
A	REVISED AS PER COORDINATION			AUG18
-	FIRST SUBMISSION AS PER MEETING 11 MAY 18			MAY18

Highways Department 路政署
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK
CENTRAL - WAN CHAI BYPASS -
TUNNEL, BUILDINGS, SYSTEMS AND FITTINGS,
AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

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CONTRACTOR
LEIGHTON
LEIGHTON JOINT VENTURE

CONSULTANT LANDSCAPE

DRAWING TITLE
**LIGHTNING PROTECTION
LAYOUT PLAN ON GREEN
ROOF**

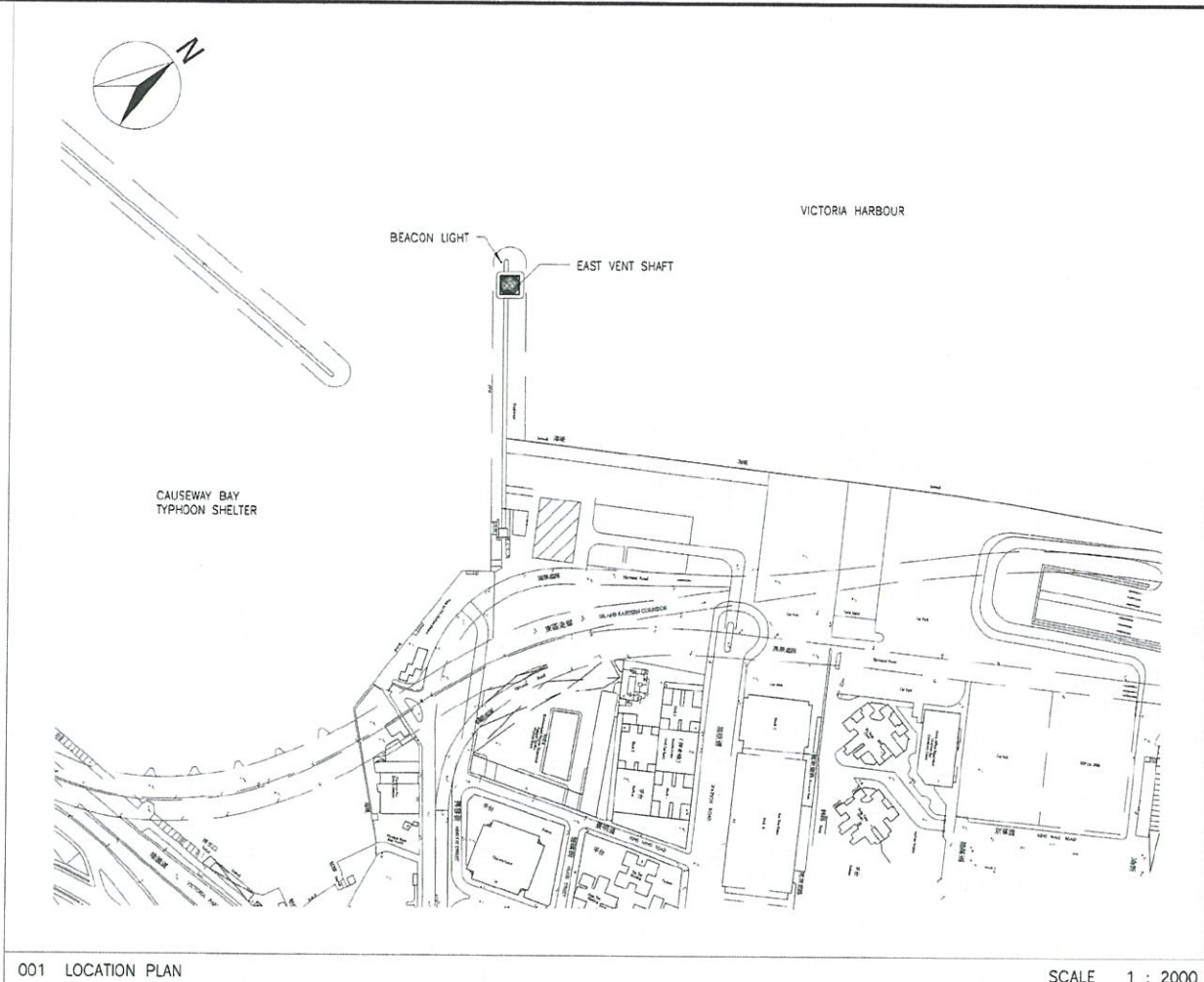
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DESIGN BY LA	CONTRACT NO. HY/2011/DB	APPROVED BY
DRAWN BY LA	STATUS	
SCALE 1:150@A3		
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GENERAL NOTES - EAST VENT SHAFT

- 1.0 GENERAL
- 1.1 THE EXTENT OF THIS NEW BUILDING WORKS OF EAST VENT SHAFT OF THE CENTRAL - WAN CHAI BYPASS AS FOLLOWS:
 - BASEMENT FLOOR
 - GROUND FLOOR
- 1.2 UNLESS OTHERWISE NOTED, ALL DIMENSIONS SHOWN ON ALL DRAWINGS ARE IN MILLIMETER.
- 1.3 ALL BALUSTRADES AND HANDRAILS ARE 1100mm HIGH MINIMUM ABOVE FINISHED FLOOR LEVEL AND THE LOWEST 150mm HAS BEEN BUILT SOLID.
- 1.4 THE CLEAR DISTANCE BETWEEN FLOOR LEVELS TO THE UNDERSIDE OF BEAMS SHOULD NOT BE LESS THAN 2,300mm.
- 2.0 SITE COVERAGE AND PLOT RATIO
- 2.1 SITE COVERAGE AND PLOT RATIO CALCULATIONS ARE NOT APPLICABLE DUE TO THE SPECIAL REQUIREMENTS OF THE AUXILIARY BUILDINGS OF THE CENTRAL WAN CHAI BYPASS.
- 3.0 MEANS OF ACCESS AND ESCAPE IN CASE OF FIRE
- 3.1 ESCAPE FROM BUILDINGS ARE IN ACCORDANCE TO THE TABLE B2 OF CODE OF PRACTICE FOR FIRE SAFETY IN BUILDINGS 2011.
- 3.2 2011.
- 3.3 DOORS TO ESCAPE STAIRS ARE SELF-CLOSING AND FIRE RATED.
- 3.4 ALL ESCAPE STAIRCASES AND EXIT ROUTES HAVE MINIMUM CLEAR HEADROOM OF 2,000mm.
- 3.5 ALL ESCAPE STAIRCASES ARE NOT LESS THAN 1,050MM IN WIDTH AND HAVE BEEN PROVIDED WITH 950 TO 1100mm HIGH HANDRAILS ON BOTH SIDES.
- ALL RISERS OF STAIRCASES ARE NOT MORE THAN 175mm HIGH WITH TREAD NOT LESS THAN 225mm WIDE.
- 4.0 COMPARTMENTATION
- 4.1 THE FIRE RESISTANCE RATING FOR ELEMENTS OF CONSTRUCTION IS INDICATED ON THE PLANS AND THE COMPARTMENTATION CALCULATION DIAGRAMS ACCORDING TO THE CODE OF PRACTICE FOR FIRE SAFETY IN BUILDINGS 2011. CONSTRUCTION AND MATERIALS COMPLIES WITH THE MINIMUM STANDARD OF CONSTRUCTION. BUILDING MATERIALS ARE CAPABLE OF RESISTING THE ACTION OF FIRE FOR THE SPECIFIED PERIODS AS SPECIFIED IN TABLE C2 OF CODE OF PRACTICE FOR FIRE SAFETY IN BUILDINGS 2011. WITHIN SHAFT WALLS ARE 2 HOURS FIRE SEPARATED.
- 4.2 ALL OPENINGS FOR SERVICE DUCTS ARE 2 HOURS FIRE RATED AND SEPARATED AT FLOOR LEVEL GENERALLY. IN CASES WHERE THIS IS NOT POSSIBLE, THE SHAFT RATING CONTINUES VERTICALLY AND SERVICE OPENINGS
- 5.0 LIGHTING AND VENTILATION
- 5.1 SPACE USED FOR THE PURPOSE OF AN OFFICE HAS NOT BEEN PROVIDED WITH NATURAL LIGHTING AND VENTILATION DUE TO THE SPECIAL TOPOLOGY OF THE CENTRAL WAN CHAI BYPASS. ADEQUATE MECHANICAL MEAN OF VENTILATION AND ARTIFICIAL LIGHTING ARE PROVIDED.

- 6.0 ARCHITECTURAL FEATURE
- 6.1 ARCHITECTURAL FEATURE IN EAST VENT SHAFT INCLUDED, BUT NOT LIMITED TO, ALL NON-STRUCTURAL METAL FINS ATTACHED TO THE EXTERIOR OF THE CONCRETE VENT SHAFT BODY. FOR LOCATION AND EXTENT OF THE ARCHITECTURAL FEATURE REFER TO THE DRAWINGS.



001 LOCATION PLAN SCALE 1 : 2000

NOTES
 1. FIXING DETAILS OF ALL ARCHITECTURAL FEATURE OF EVS SHALL BE DESIGNED BY THE CONTRACTOR. SHOP DRAWING SHALL BE SUBMITTED TO THE ENGINEER FOR COMMENT AND APPROVAL PRIOR TO COMMENCEMENT OF WORKS.

DRAWING LIST

DRAWING NO.	SHEET NUMBER	SHEET NAME	SHEET NO.	SIZE	SCALE	REMARKS
60095653/RW/	7901	LOCATION PLAN		A1	1:2000	
60095653/RW/	7902	OVERALL PLAN		A1	1:500	
60095653/RW/	7911	LEVEL BASEMENT & GROUND PLAN		A1	1:100	
60095653/RW/	7912	LEVEL ROOF (BASE) & ROOF (SHAFT)		A1	1:100	
60095653/RW/	7941	EAST & SOUTH ELEVATIONS		A1	1:100	
60095653/RW/	7942	WEST & NORTH ELEVATIONS		A1	1:100	
60095653/RW/	7961	AXONOMETRIC - BASE GEOMETRY		A1	1:100	
60095653/RW/	7971	CROSS SECTIONS		A1	1:100	
60095653/RW/	7981	SCHEDULES		A1	NTS	

FOR CONSTRUCTION

FOR CONSTRUCTION

B	WORKING DRAWING	CHK	ALCF	MAR 14
A	TENDER ADDENDUM NO.1	CHK	ALCF	JUN 13
-	TENDER DRAWING	CHK	ALCF	MAY 13

Highways Department 路政署
 Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

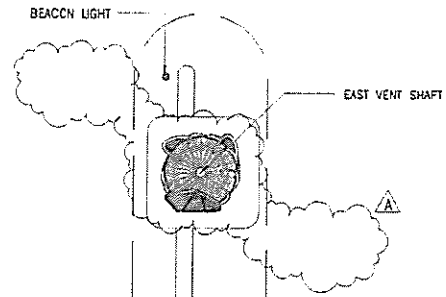
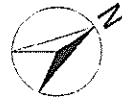
PWP ITEM NO. 579 TH
 工務計劃項目編號

CENTRAL - WAN CHAI BYPASS -
 TUNNEL BUILDINGS, SYSTEMS AND FITTINGS,
 AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING
EAST VENT SHAFT
 LOCATION PLAN

AECOM

DRG NO. 圖紙編號	60095653/RW/7901 B
DESIGNED BY 設計	CHW
CONTRACT NO. 合約編號	HY/2011/08
AP. CH. APPROVED 核對	CHK
DRAWN BY 繪圖	ERL
STATUS 階段	WORKING DRAWING
SCALE 比例	AS SHOWN @A1
DIMENSIONS ARE IN 尺寸單位	MILLIMETERS
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VICTORIA HARBOUR

NWH

Backwater

Seawall

EAST VENTILATION BUILDING

CAUSEWAY BAY TYPHON SHELTER

Three Lo Wan Ferry Station
Causeway

Car Park

Sand Depot

Car Park

NOTES

1. FIXING DETAILS OF ALL ARCHITECTURAL FEATURE OF EVS SHALL BE DESIGNED BY THE CONTRACTOR. SHOP DRAWING SHALL BE SUBMITTED TO THE ENGINEER FOR COMMENT AND APPROVAL PRIOR TO COMMENCEMENT OF WORKS.

FOR CONSTRUCTION

FOR CONSTRUCTION

REV	DESCRIPTION	DATE
0	WORKING DRAWING	CHW ALCP MAR 14
A	TENDER ADDENDUM NO.1	CHW ALCP JUN 13
-	TENDER DRAWING	CHW ALCP MAY 13

Highways Department 路政署
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

PWP ITEM NO. 579 TH
工務計劃項目編號

CENTRAL - WAN CHAI BYPASS -
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS,
AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING
EAST VENT SHAFT
OVERALL PLAN

AECOM

DRG. NO. 60095653/RW/7902 B
圖紙編號

DESIGNED BY CHW	CONTRACT NO. HY/2011/08	APPR. BY CHW
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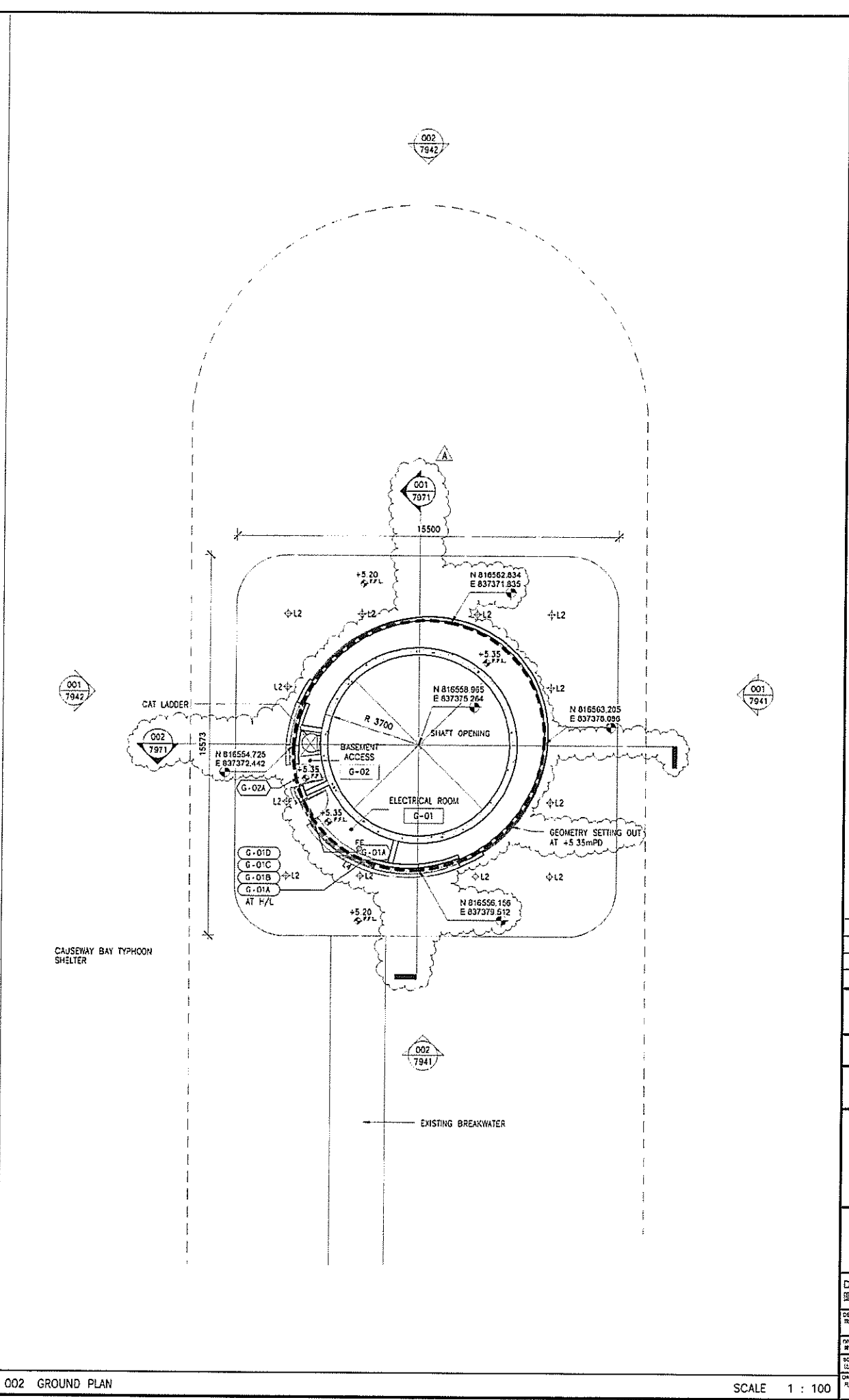
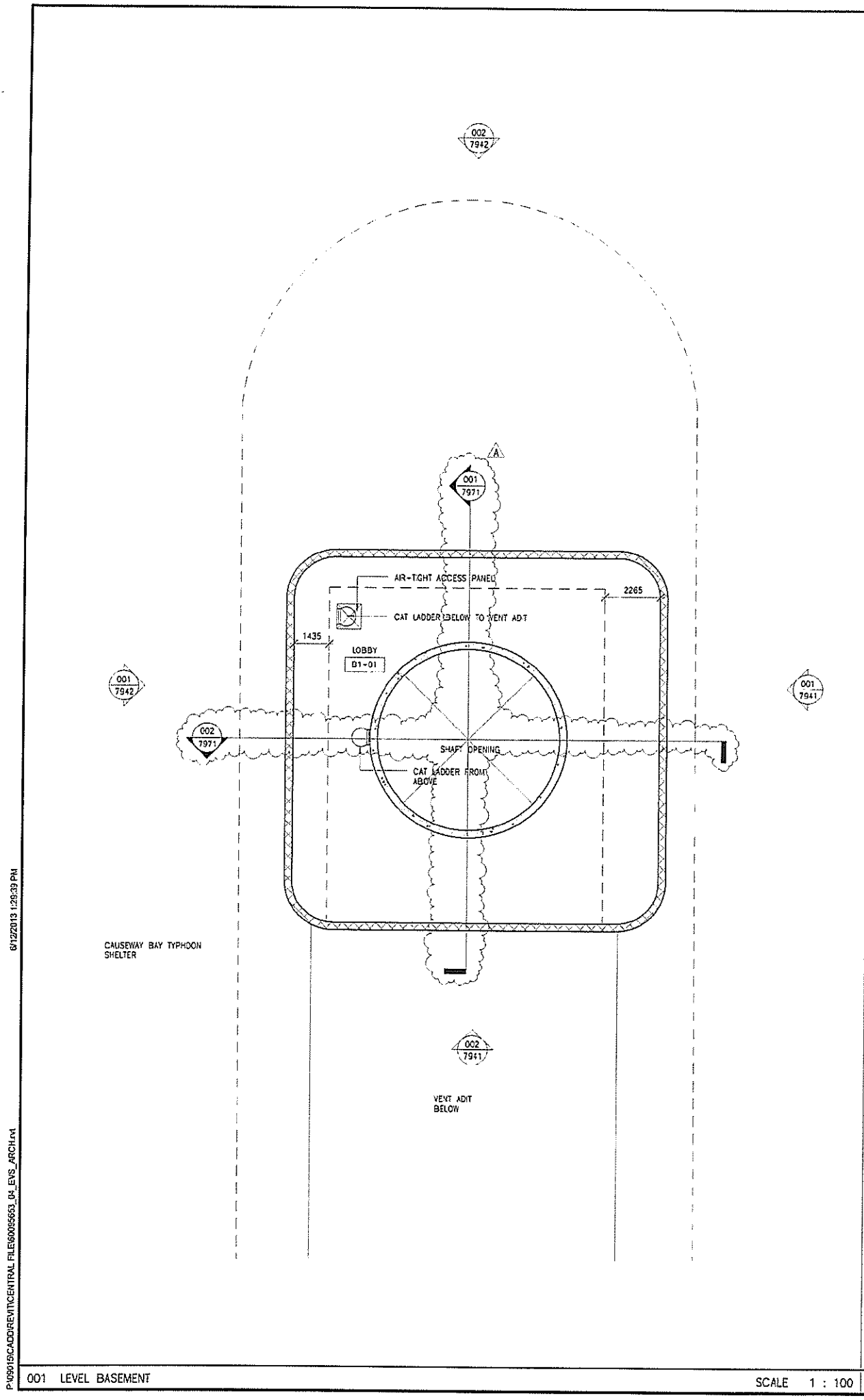
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DIMENSIONS ARE IN MILLIMETERS

WORKING DRAWING

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001 OVERALL PLAN



NOTES:
 1. FIXING DETAILS OF ALL ARCHITECTURAL FEATURE OF CVS SHALL BE DESIGNED BY THE CONTRACTOR. SHOP DRAWING SHALL BE SUBMITTED TO THE ENGINEER FOR COMMENT AND APPROVAL PRIOR TO COMMENCEMENT OF WORKS.

FOR CONSTRUCTION

FOR CONSTRUCTION

REV	DESCRIPTION	DATE
B	WORKING DRAWING	CHW/ALCF/MAR 14
A	TENDER ADDENDUM NO.1	CHW/ALCF/JUN 13
-	TENDER DRAWING	CHW/ALCF/MAY 13

Highways Department 路政署
 Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

PWP ITEM NO. 579 TH
 工務計劃項目編號

CENTRAL - WAN CHAI BYPASS -
 TUNNEL BUILDINGS, SYSTEMS AND FITTINGS,
 AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING
 EAST VENT SHAFT
 LEVEL BASEMENT & GROUND PLAN

AECOM

DRG. NO. 60095653/RW/7911B
 圖號

DESIGNED BY CHW CONTRACT NO. HY/2011/08
 DRAWN BY ERL CHECKED BY CWN

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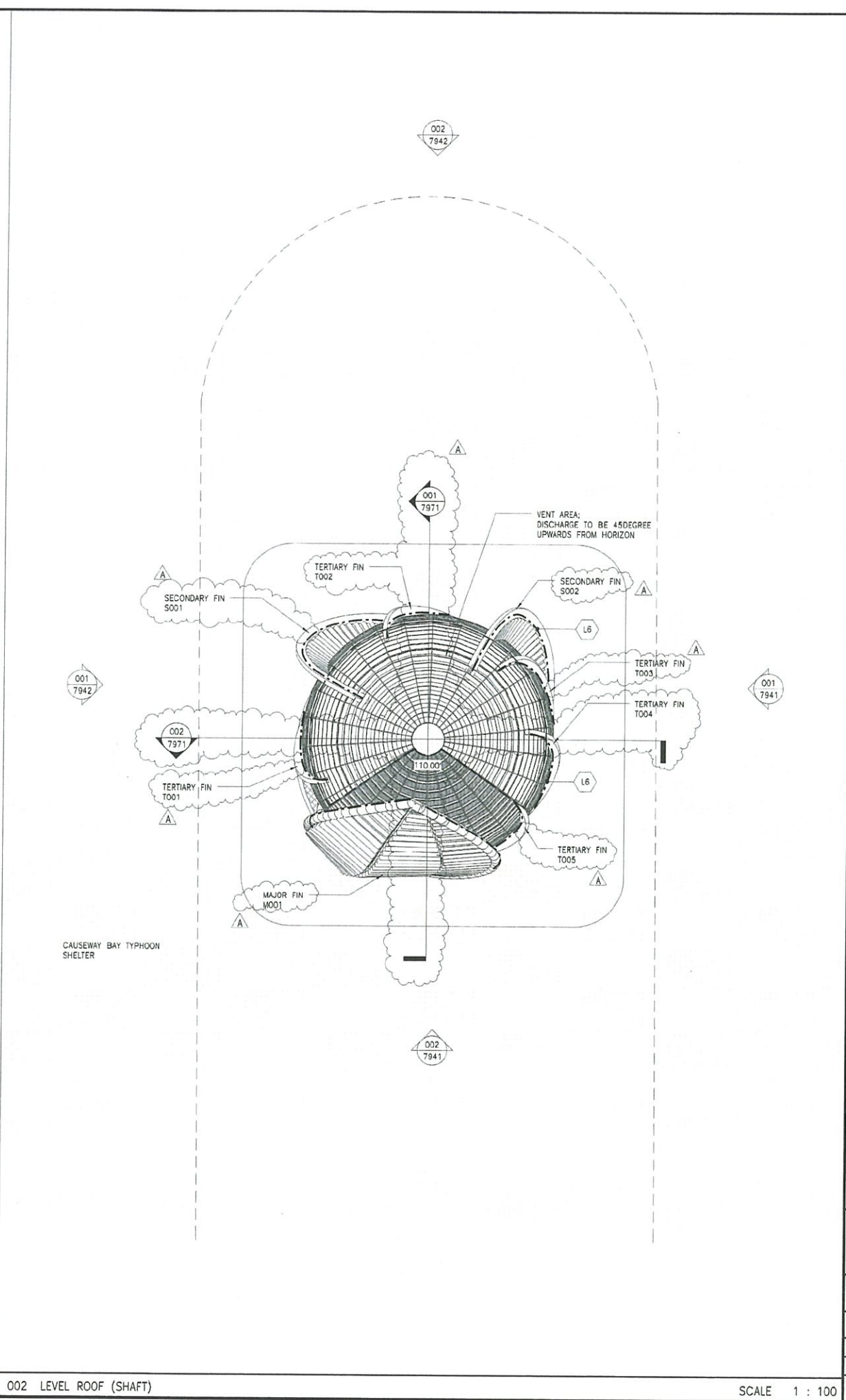
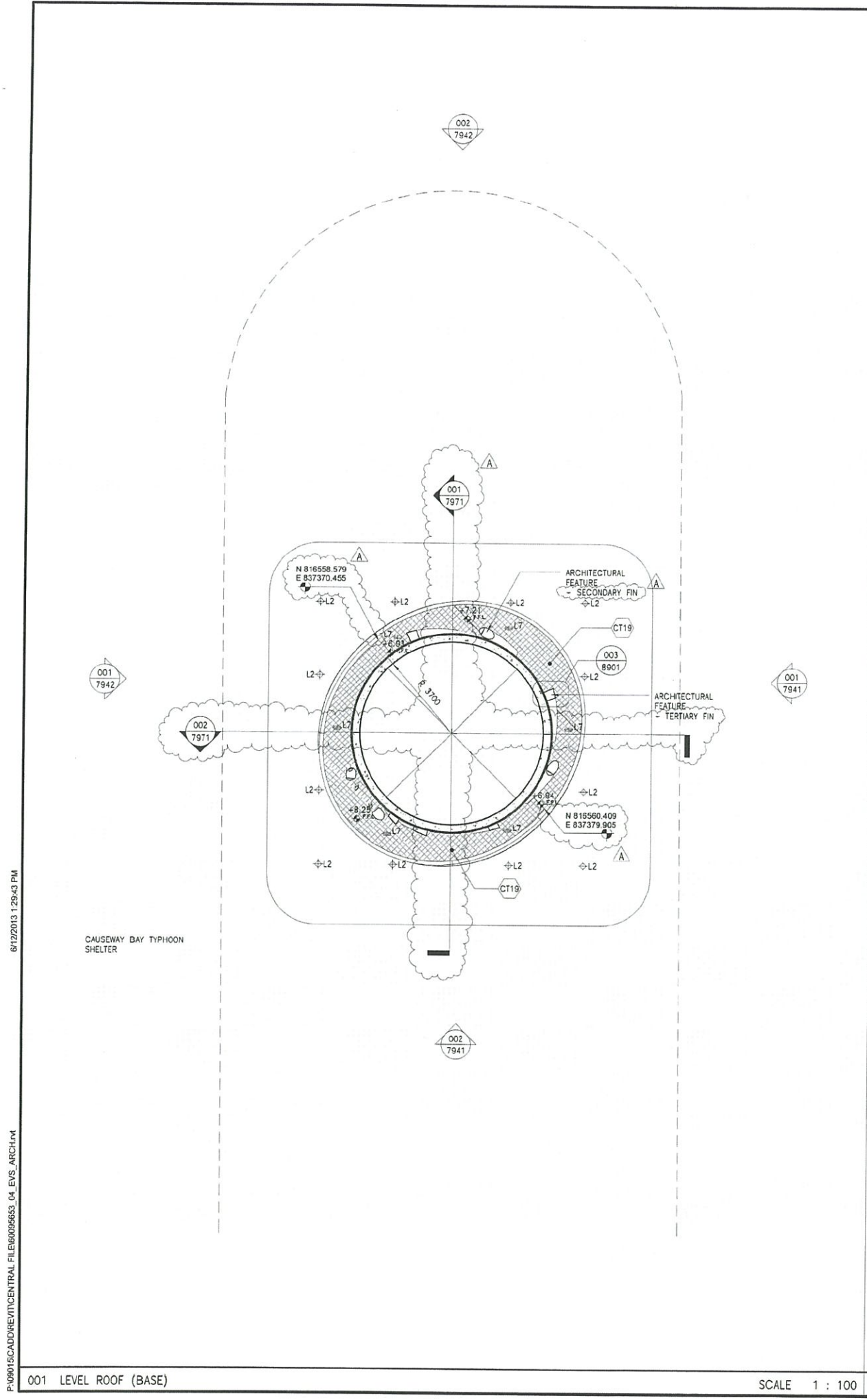
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001 LEVEL BASEMENT

SCALE 1 : 100 002 GROUND PLAN

SCALE 1 : 100



NOTES

1. FIXING DETAILS OF ALL ARCHITECTURAL FEATURE OF EYS SHALL BE DESIGNED BY THE CONTRACTOR. SHOP DRAWING SHALL BE SUBMITTED TO THE ENGINEER FOR COMMENT AND APPROVAL PRIOR TO COMMENCEMENT OF WORKS.

FOR CONSTRUCTION

FOR CONSTRUCTION

REV	DESCRIPTION	DATE
B	WORKING DRAWING	CHW ALCP MAR 14
A	TENDER ADDENDUM NO.1	CHW ALCP JUN 13
-	TENDER DRAWING	CHW ALCP MAY 13

Highways Department 路政署
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

PWP ITEM NO. 579 TH
工務計劃項目編號

CENTRAL - WAN CHAI BYPASS -
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS,
AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING
EAST VENT SHAFT
LEVEL ROOF (BASE) & ROOF (SHAFT)

AECOM

DRG. NO. 60095653/RW/7912 B
圖紙編號

DESIGNED BY CHW CONTRACT NO. HY/2011/08 AP. OF APPROVED
ERL STATUS

SCALE AS SHOWN @A1 WORKING DRAWING

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001 LEVEL ROOF (BASE)

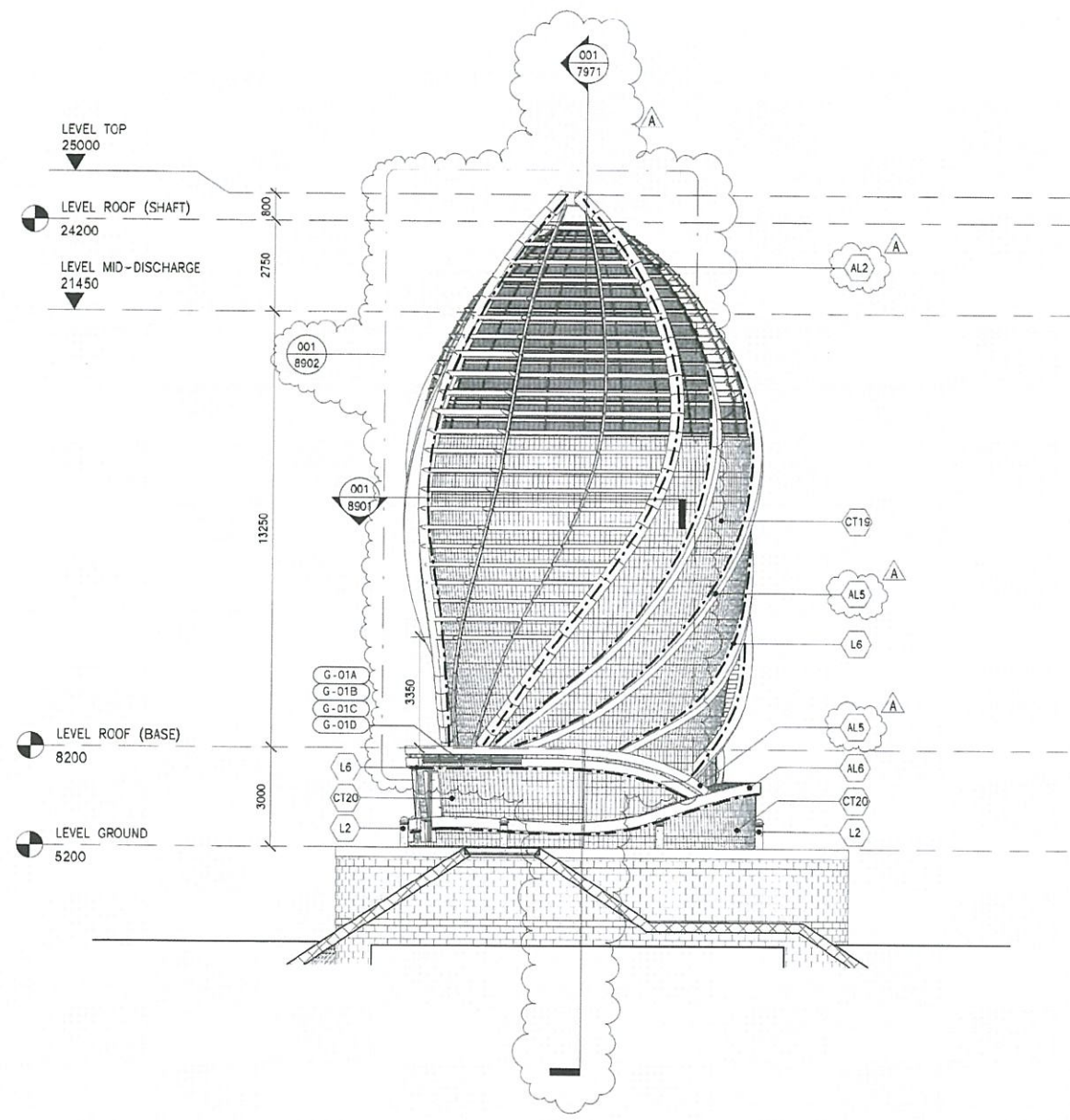
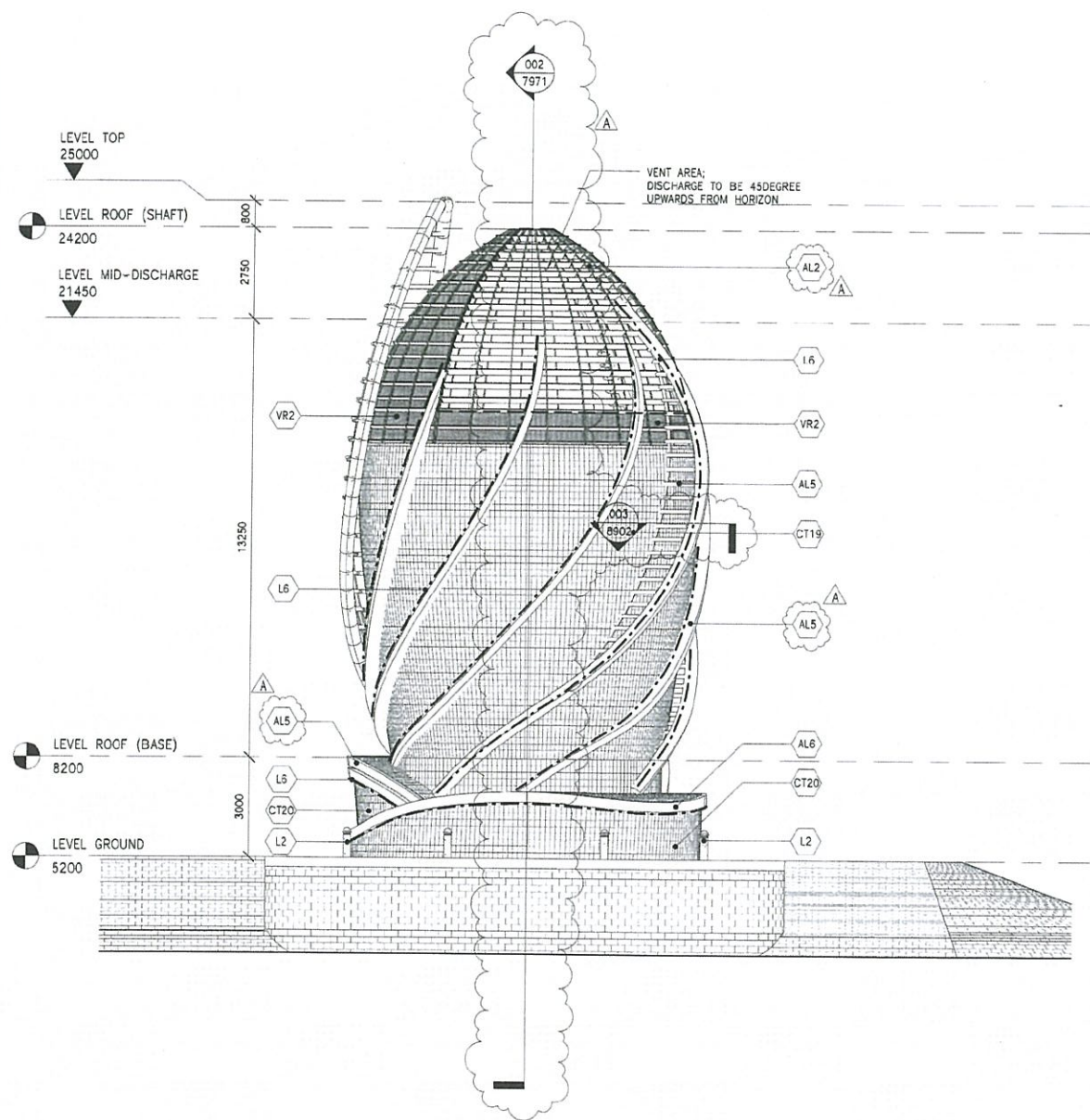
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SCALE 1 : 100

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NOTES
 1. FIXING DETAILS OF ALL ARCHITECTURAL FEATURE OF EVS SHALL BE DESIGNED BY THE CONTRACTOR. SHOP DRAWING SHALL BE SUBMITTED TO THE ENGINEER FOR COMMENT AND APPROVAL PRIOR TO COMMENCEMENT OF WORKS.

FOR CONSTRUCTION

FOR CONSTRUCTION

B	WORKING DRAWING	CHW	ALCF	MAR 14
A	TENDER ADDENDUM NO. 1	CHW	ALCF	JUN 13
-	TENDER DRAWING	CHW	ALCF	MAY 13

Highways Department 路政署
 Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

PWP ITEM NO. 579 TH
 工務計畫項目編號

CENTRAL - WAN CHAI BYPASS -
 TUNNEL BUILDINGS, SYSTEMS AND FITTINGS,
 AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING
 EAST VENT SHAFT
 EAST & SOUTH ELEVATIONS

AECOM

DRG. NO. 圖紙編號 60095653/RW/7941 B

DESIGNED BY CHW	CONTRACT NO. HY/2011/08	AP. BY APPROVED CHW
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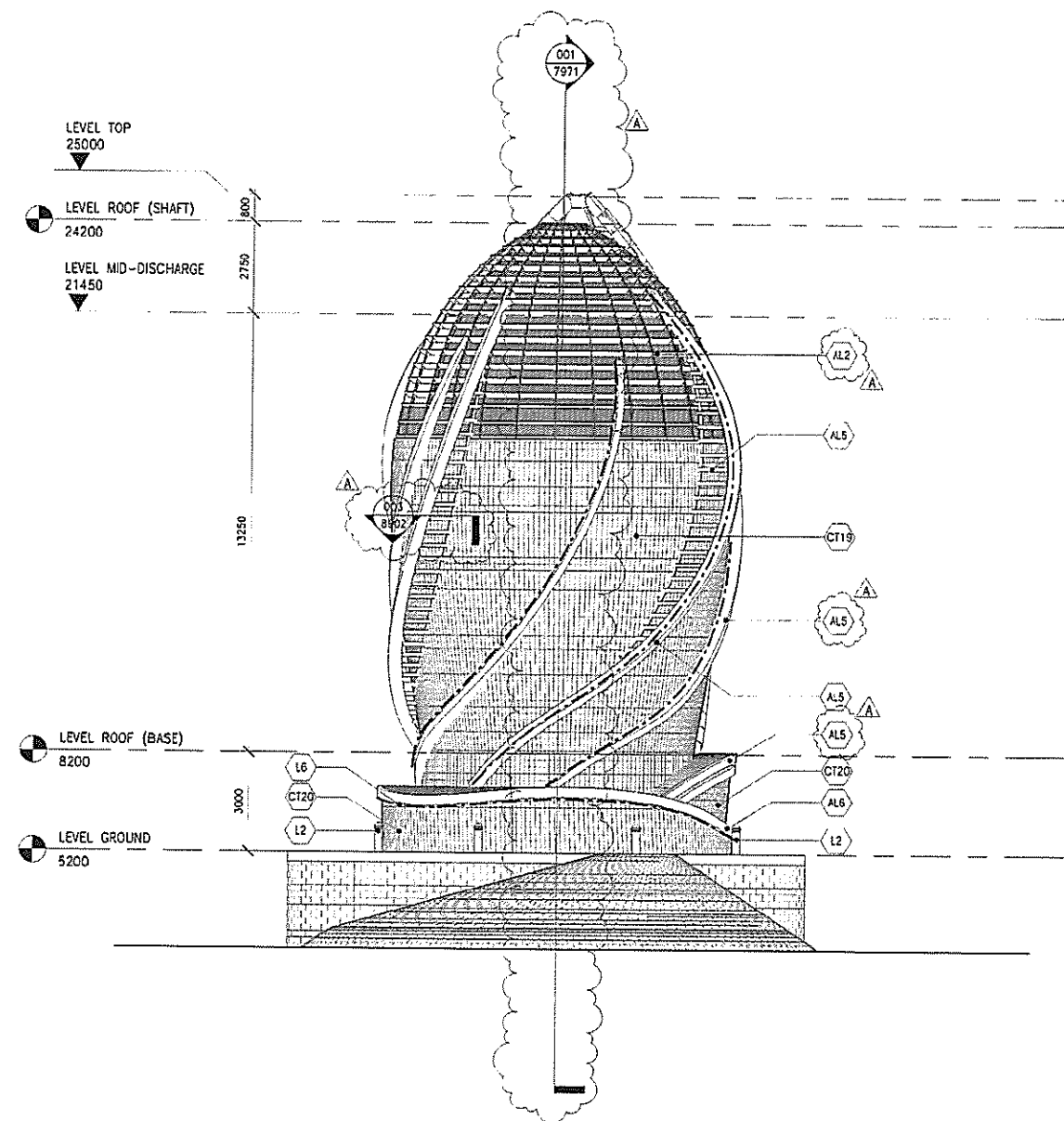
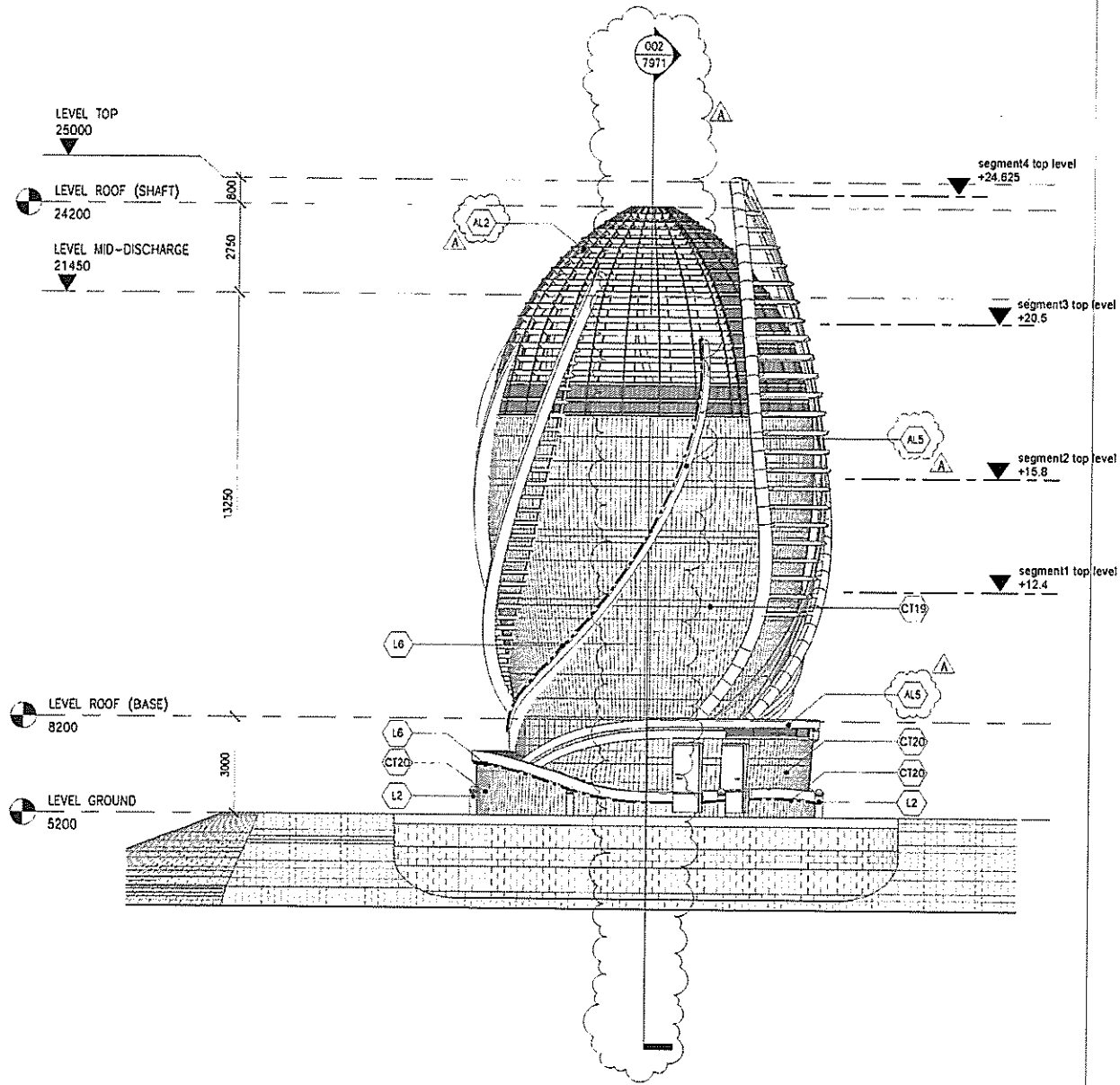
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SCALE 1 : 100

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NOTES:
1. FINISH DETAILS OF ALL ARCHITECTURAL FEATURE OF EVS SHALL BE DESIGNED BY THE CONTRACTOR. SHOP DRAWING SHALL BE SUBMITTED TO THE ENGINEER FOR COMMENT AND APPROVAL PRIOR TO COMMENCEMENT OF WORKS.

FOR CONSTRUCTION
FOR CONSTRUCTION

B	WORKING DRAWING	CHW	ALCF	MAR 14
A	TENDER ADDENDUM NO 1	CHW	ALCF	JUN 13
-	TENDER DRAWING	CHW	ALCF	MAY 13
REV	DESCRIPTION	DATE	BY	DATE

Highways Department 路政署
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

PWP ITEM NO. 579 TH
工務計劃項目編號

CENTRAL - WAN CHAI BYPASS -
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS,
AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING
EAST VENT SHAFT
WEST & NORTH ELEVATIONS

AECOM

DRG. NO. 60095653/RW/7942B
圖紙編號

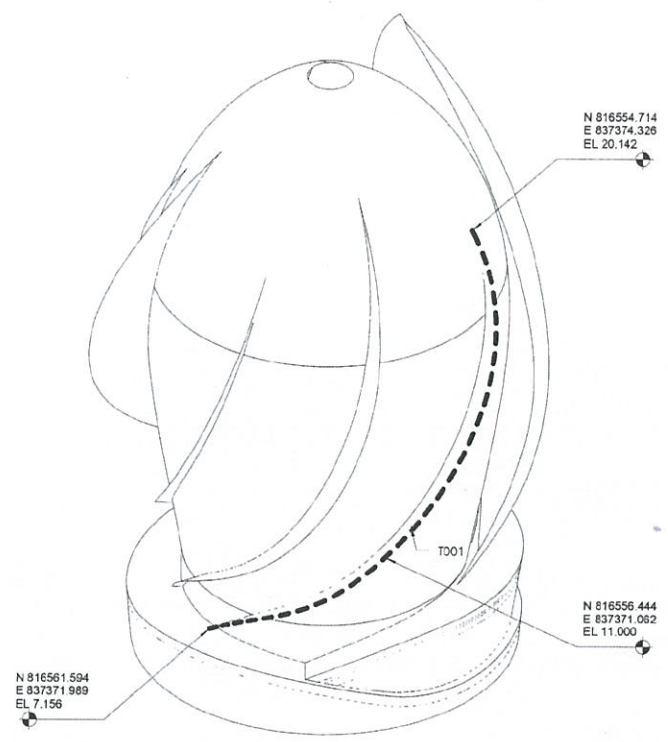
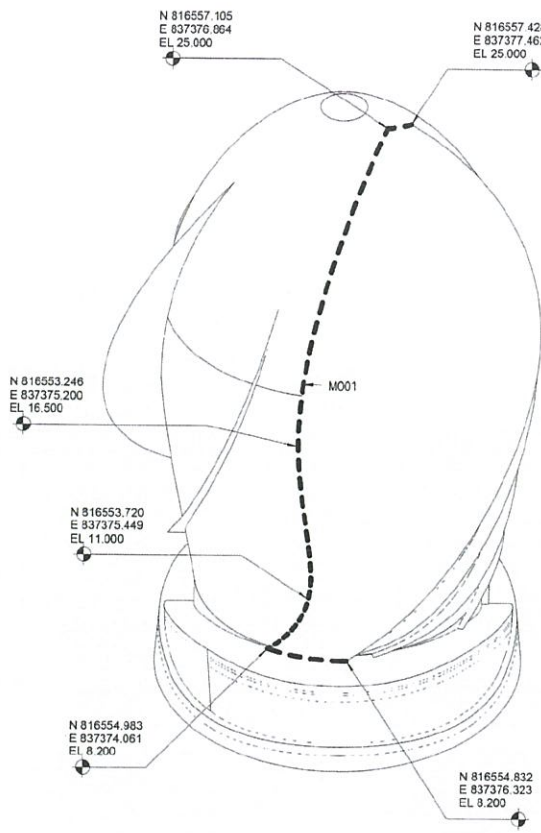
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DRAWN BY ERL	STATUS REV	DATE

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001 WEST ELEVATION

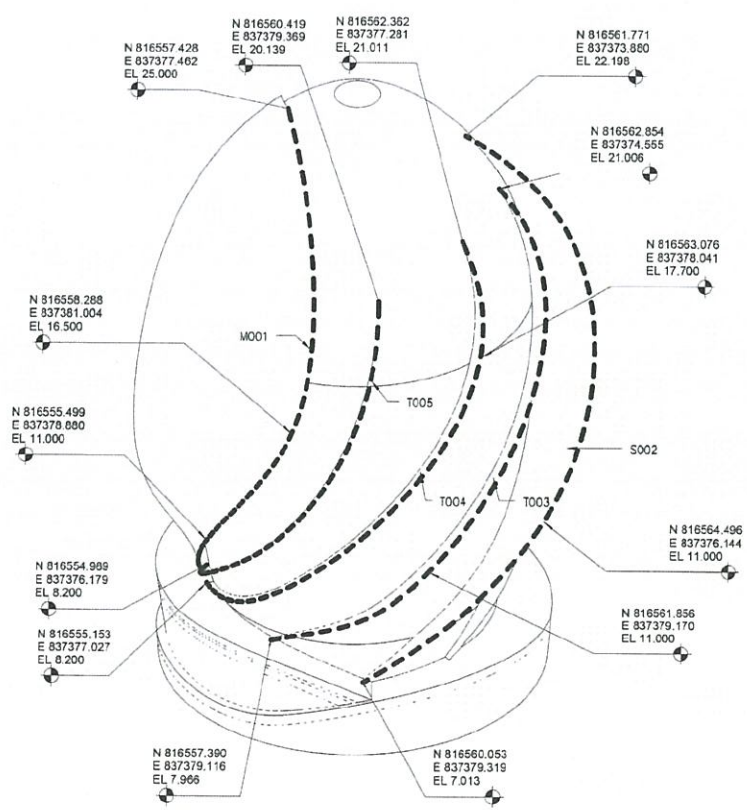
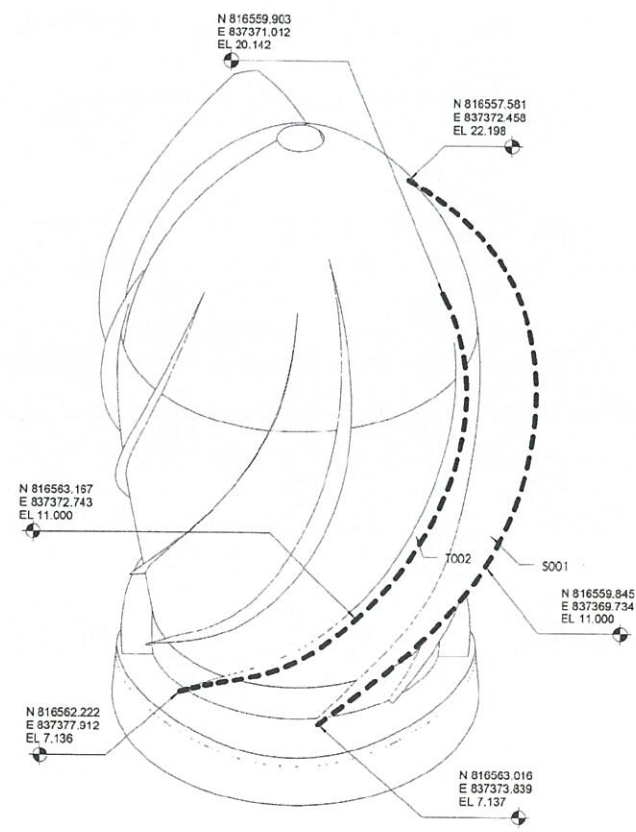
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SCALE 1 : 100



001 AXONOMETRIC : BASE GEOMETRY - SOUTHEAST

002 AXONOMETRIC : BASE GEOMETRY - NORTHWEST



003 AXONOMETRIC : BASE GEOMETRY - NORTHEAST

004 AXONOMETRIC : BASE GEOMETRY - SOUTHEAST

- NOTES:
1. FIXING DETAILS OF ALL ARCHITECTURAL FEATURE OF EVS SHALL BE DESIGNED BY THE CONTRACTOR. SHOP DRAWING SHALL BE SUBMITTED TO THE ENGINEER FOR COMMENT AND APPROVAL PRIOR TO COMMENCEMENT OF WORKS
 2. THE BASE GEOMETRY SETTING OUT MODEL OF THE ARCHITECTURAL FEATURE OF EVS SHALL BE SUBMITTED TO THE ENGINEER FOR COMMENT AND APPROVAL PRIOR TO COMMENCEMENT OF WORKS

LEGEND

--- BASE GEOMETRY SETTING OUT LINE

FOR CONSTRUCTION

FOR CONSTRUCTION

NO.	DESCRIPTION	DATE
A	WORKING DRAWING	MAR 14
-	TENDER ADDENDUM NO.1	JUN 13

Highways Department 路政署
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

PWP ITEM NO. 579 TH
工務計劃項目編號

CENTRAL - WAN CHAI BYPASS -
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS,
AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING
EAST VENT SHAFT
AXONOMETRIC - BASE GEOMETRY

AECOM

DRG. NO. 60095653/RW/7961A
圖紙編號

DESIGNED BY: CHW
DRAWN BY: ERL
SCALE: A1 1:100
DIMENSIONS ARE IN MILLIMETERS

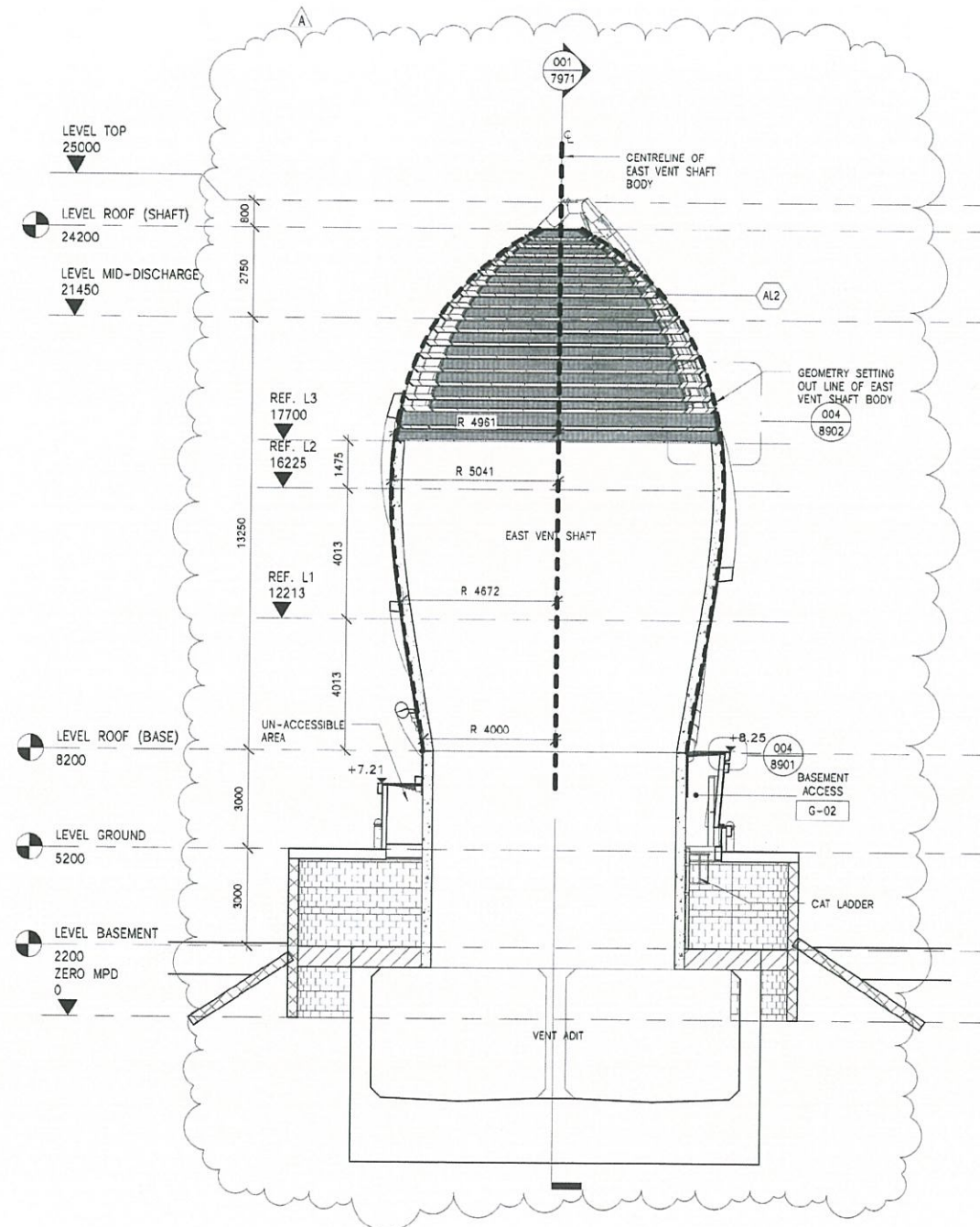
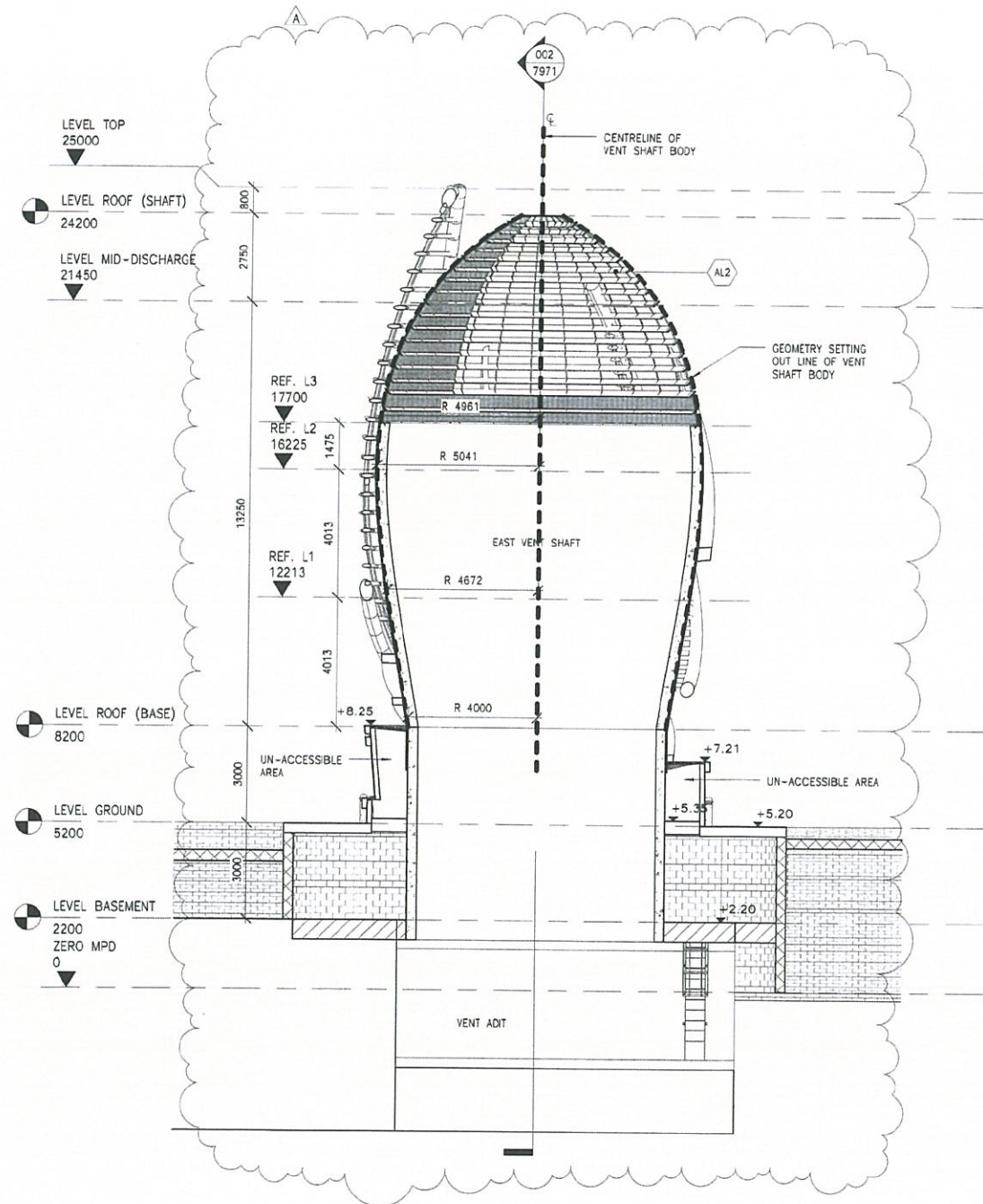
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NOTES:
1. FIXING DETAILS OF ALL ARCHITECTURAL FEATURE OF EVS SHALL BE DESIGNED BY THE CONTRACTOR. SHOP DRAWING SHALL BE SUBMITTED TO THE ENGINEER FOR COMMENT AND APPROVAL PRIOR TO COMMENCEMENT OF WORKS.

FOR CONSTRUCTION
FOR CONSTRUCTION

REV	NO.	DESCRIPTION	DATE
B	1	WORKING DRAWING	14 MAR 14
A	1	TENDER ADDENDUM NO.1	13 JUN 13
-	1	TENDER DRAWING	13 MAY 13

Highways Department 路政署
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

PWP ITEM NO. 579 TH
工務計劃項目編號

CENTRAL - WAN CHAI BYPASS - TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING
EAST VENT SHAFT
CROSS SECTIONS

AECOM

DRG. NO. 60095653/RW/7971 B
圖紙編號

DESIGNED BY CHW	CONTRACT NO. HY/2011/08	AP. OR APPROVED OWN
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DRAWN BY ERL	STATUS WORKING DRAWING
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SCALE 1:100
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FINISH SCHEDULE										
ROOM NUMBER	ROOM NAME	DISCIPLINE	LEVEL	FLOOR AREA	BASE FINISH	FLOOR FINISH	WALL FINISH	CEILING FINISH	OTHERS	REMARKS
B1-01	LOBBY	-	LEVEL BASEMENT	170.355 m ²	SC1	PTD4	PTD3	PTD3		
G-01	ELECTRICAL ROOM	E&M	LEVEL GROUND	4.167 m ²	SC1	PTD4	PTD3	PTD3		
G-02	BASEMENT ACCESS	-	LEVEL GROUND	2.066 m ²	SC1	PTD4	PTD3	PTD3		

NOTES
 1. FIXING DETAILS OF ALL ARCHITECTURAL FEATURE OF EVS SHALL BE DESIGNED BY THE CONTRACTOR. SHOP DRAWING SHALL BE SUBMITTED TO THE ENGINEER FOR COMMENT AND APPROVAL PRIOR TO COMMENCEMENT OF WORKS.

DOOR SCHEDULE																
LEVEL	ROOM NUMBER	ROOM NAME	DISCIPLINE	DOOR NUMBER	DOOR TYPE	STRUCTURAL OPENING (mm)		CLEAR OPENING (mm)		LOUVER	VISION PANEL	FRR (MINUTES)	OPEN ANGLE	IRONMONGREY SET	SIGNAGE	REMARKS
						WIDTH	HEIGHT	WIDTH	HEIGHT							
LEVEL GROUND	G-01	ELECTRICAL ROOM	E&M	G-01A	D07	940	2170	800	2100	No	No	-/120/120	90.00°	IRS06	S01, S09	
LEVEL GROUND	G-02	BASEMENT ACCESS	-	G-02A	D07	940	2170	800	2100	No	No	-/120/120	90.00°	IRS06	S01	

WINDOW / LOUVER SCHEDULE										
ROOM NUMBER	ROOM NAME	DISCIPLINE	WINDOW / LOUVER NO.	STRUCTURAL OPENING (mm)		CLEAR OPENING (mm)		OPENABLE	GLASS AREA / LOUVER AREA	REMARKS
				WIDTH	HEIGHT	WIDTH	HEIGHT			
G-01	ELECTRICAL ROOM	E&M	G-01A	1040	340	1000	300	No	0.300 m ²	
G-01	ELECTRICAL ROOM	E&M	G-01B	1040	340	1000	300	No	0.300 m ²	
G-01	ELECTRICAL ROOM	E&M	G-01C	1040	340	1000	300	No	0.300 m ²	
G-01	ELECTRICAL ROOM	E&M	G-01D	1040	340	1000	300	No	0.300 m ²	

FOR CONSTRUCTION

FOR CONSTRUCTION

REV	DESCRIPTION	CHECKED	DATE
B	WORKING DRAWING	CHW	MAR 14
A	TENDER ADDENDUM NO.1	CHW	JUN 13
-	TENDER DRAWING	CHW	MAY 13

Highways Department 路政署
 Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

PWP ITEM NO. 579 TH
 工務計劃項目編號

CENTRAL - WAN CHAI BYPASS - TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

EAST VENT SHAFT
 SCHEDULES

AECOM

DRG. NO. 60095653/RW/7981B
 圖紙編號

DESIGNED BY CHW CONTRACT NO. HY/2011/08 AP DR. APPROVED CWN

DRAWN BY ERL STATUS WORKING DRAWING

SCALE AS SHOWN @A1 DIMENSIONS ARE IN MILLIMETERS

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CAT LADDER SCHEDULE										
CAT LADDER NOS.	LOCATION		TOTAL HEIGHT	SAFETY HOOD	WORKING PLATFORM	TRANSFER	LEVEL OF SURFACES			REMARKS
	ROOM NOS.	ROOM NAME					LOWEST	TRANSFER	HIGHEST	
CL-01	B1-01	LOBBY	3100	Yes	No	No	+2.2mPD	-	+5.2mPD	
CL-02	B1-01	LOBBY	4350	Yes	No	No	-2.13mPD	-	+2.2mPD	

Appendix C
Hard Landscape Plan – Fabric Glass Planter
Box for East Ventilation Building and
Administration Building and MVB Cladding
Design

Contractor's Submission Form





Leighton Joint Venture
39/F Sun Hung Kai Centre
30 Harbour Road, Hong Kong
t: +852 2823 1111
f: +852 2529 8784
e: info@leightonasia.com

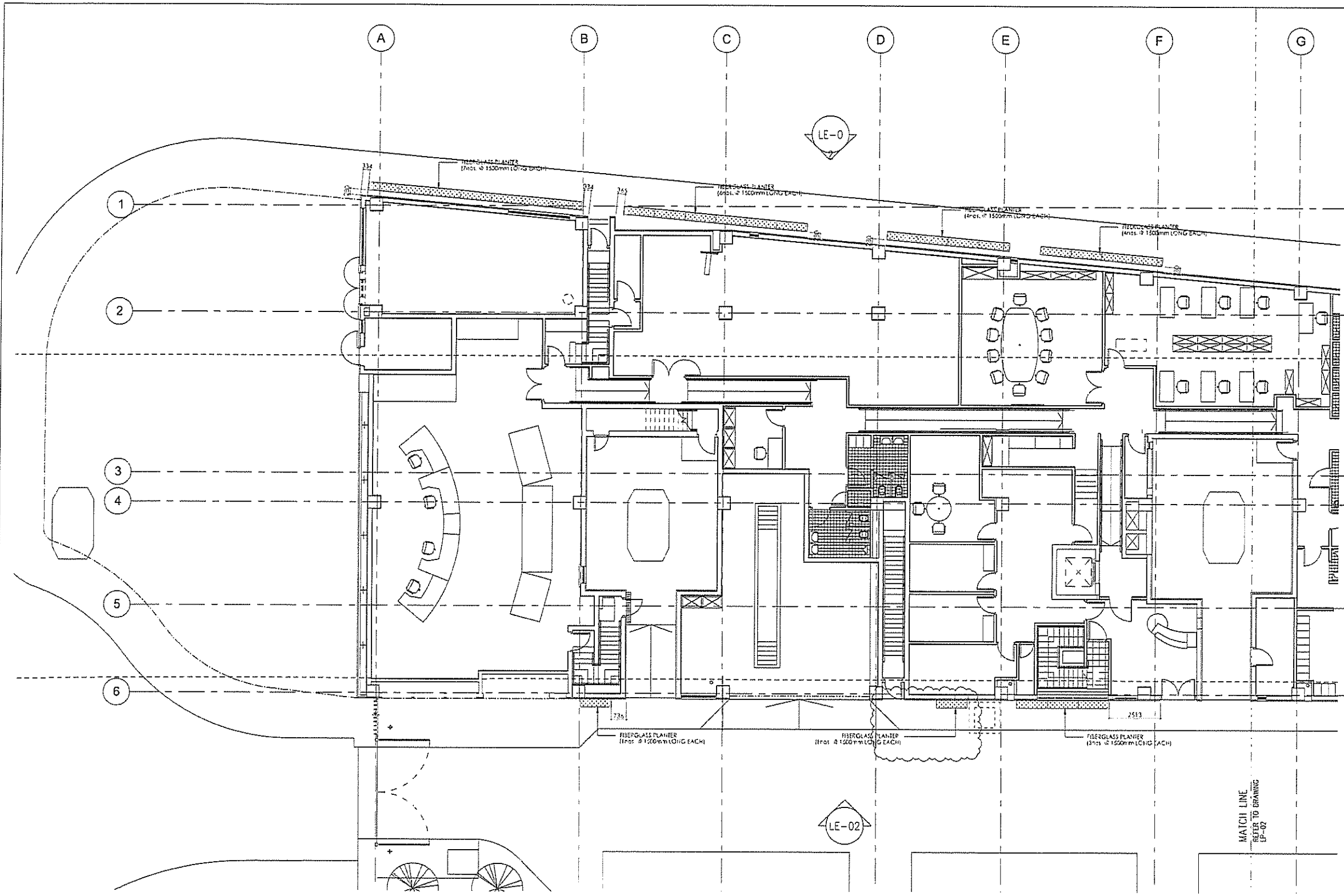
Ref: H2613/CSF/OPR/03721-R0

Date: 17-Sep-2019

Contract: HY/2011/08– Central-Wan Chai Bypass – Tunnel Buildings, Systems and Fittings, and Works
Associated with Tunnel Commissioning

To: Engineer's Representative, The Chief Resident Engineer Mr. David Kwan Your Ref.: .	
Title of Submission: As-built Drawings of ADB Fibreglass Planter	
Specification:	
We are pleased to submit the following for your review and comment	
Description: We submit herewith the as-built drawings of ADB Fibreglass Planter for your record.	
Purpose of Submission:	For Record, Reference or Information
Contractor's Representative Signature:	Date: 17-Sep-2019
	
Name: Colman Wong Position: Joint Venture's Representative	
Distribution: CW / JC / HyL 	

Prepared by: Jonas LAM 



LEGEND

□ FIBERGLASS PLANTER

AS-BUILT

REV	DESCRIPTION	BY	DATE
A	As-fitted	-	21
TOTAL		7	

Highways Department 路政署
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AECOM Asia Co. Ltd.

CONTRACTOR
LEIGHTON
LEIGHTON JOINT VENTURE

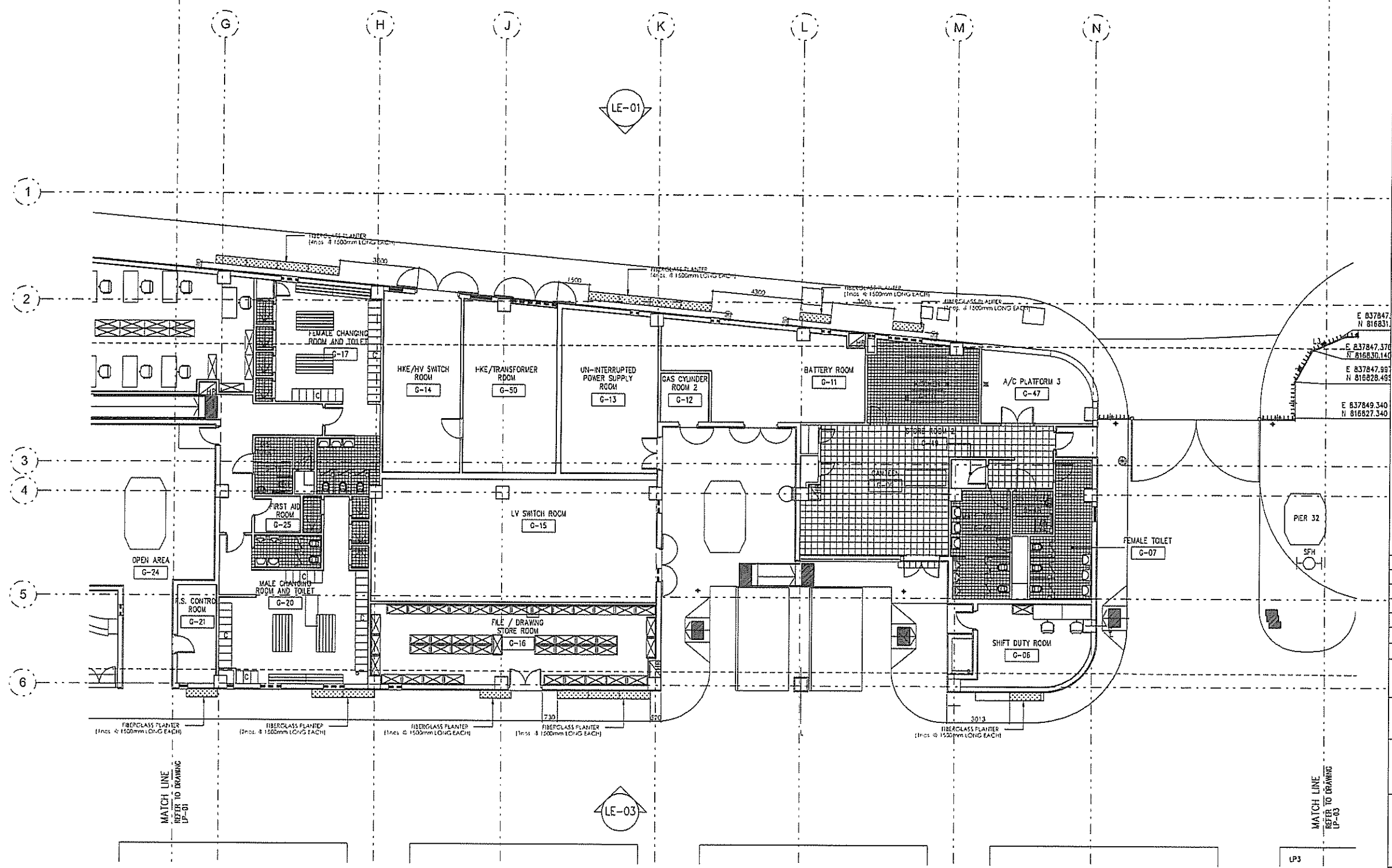
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DRAWING TITLE
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DWG. NO.	LP - 01 - ADB
DESIGN BY	OY
DATE BY	OY
SCALE	1:200@A3
ENGINEER	MM
DATE	11/2010
STATUS	

ENGINEER IN CHARGE
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AS-BUILT



E 837847
N 816831
E 837847.376
N 816830.140
E 837847.997
N 816828.495
E 837849.340
N 816827.340

A	As-fitted	-	-	21/7
REV	DESCRIPTION	BY	CHK	DATE
1				

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CONTRACTOR
LEIGHTON
LEIGHTON JOINT VENTURE

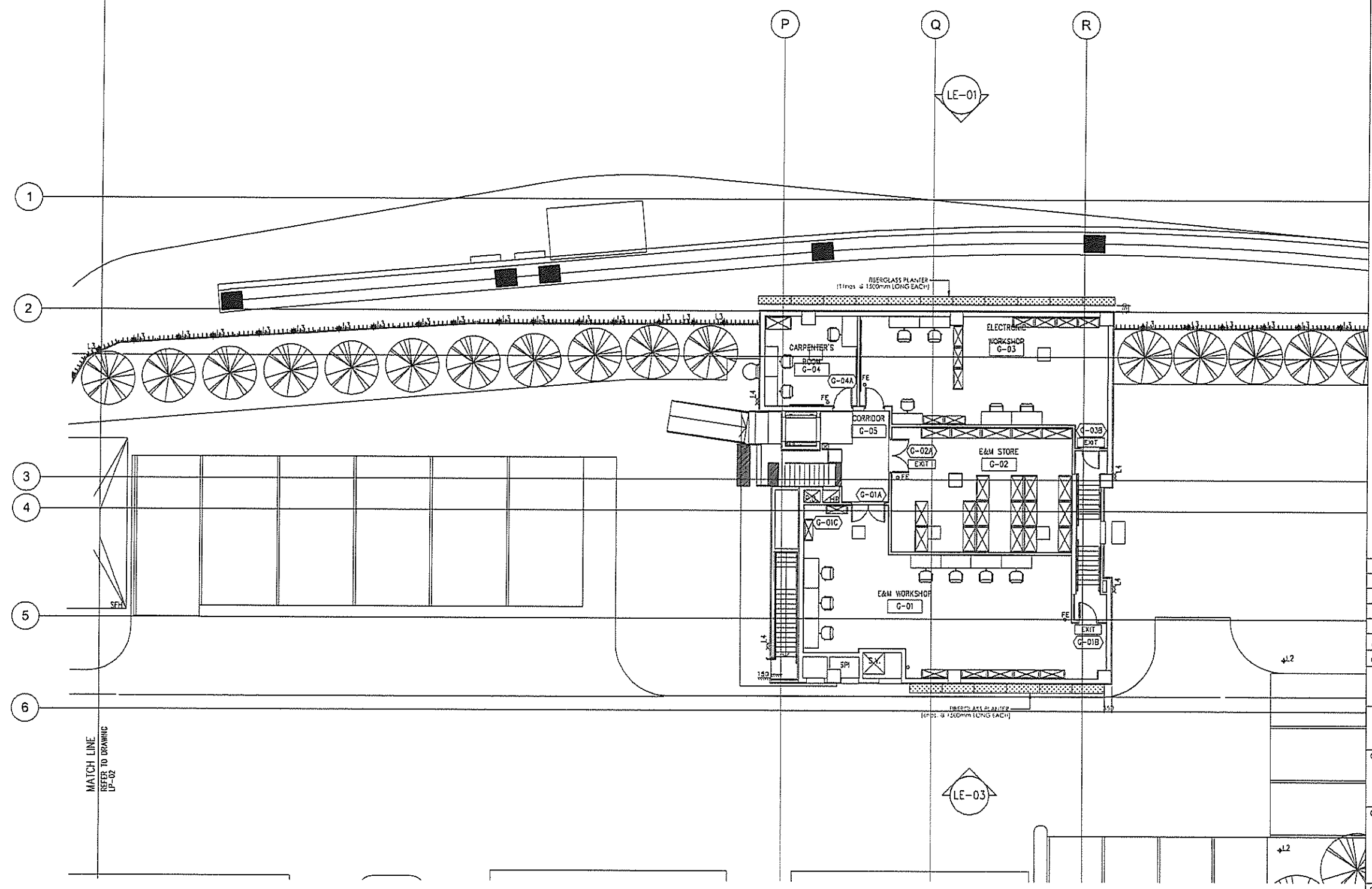
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DRAWING TITLE
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DRAWN BY DY	STATUS	
SCALE 1:200@A3		
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FIBERGLASS PLANTER



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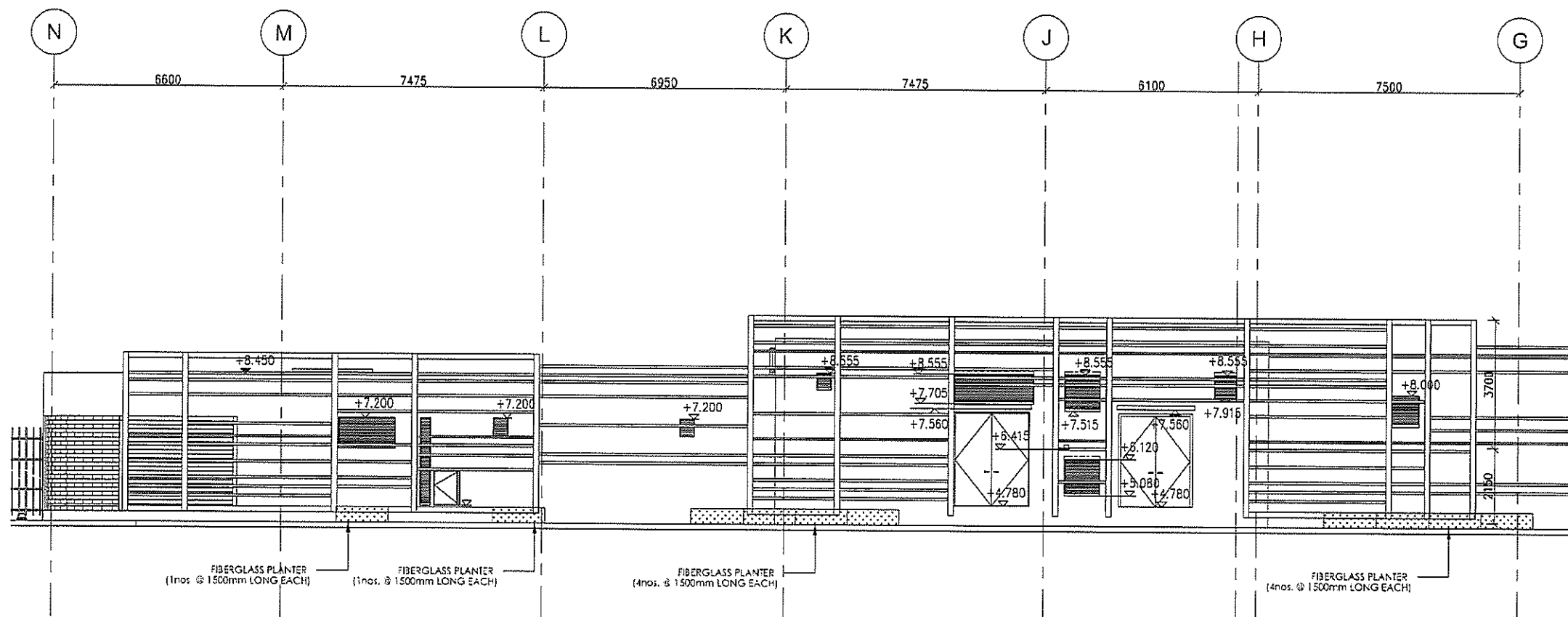
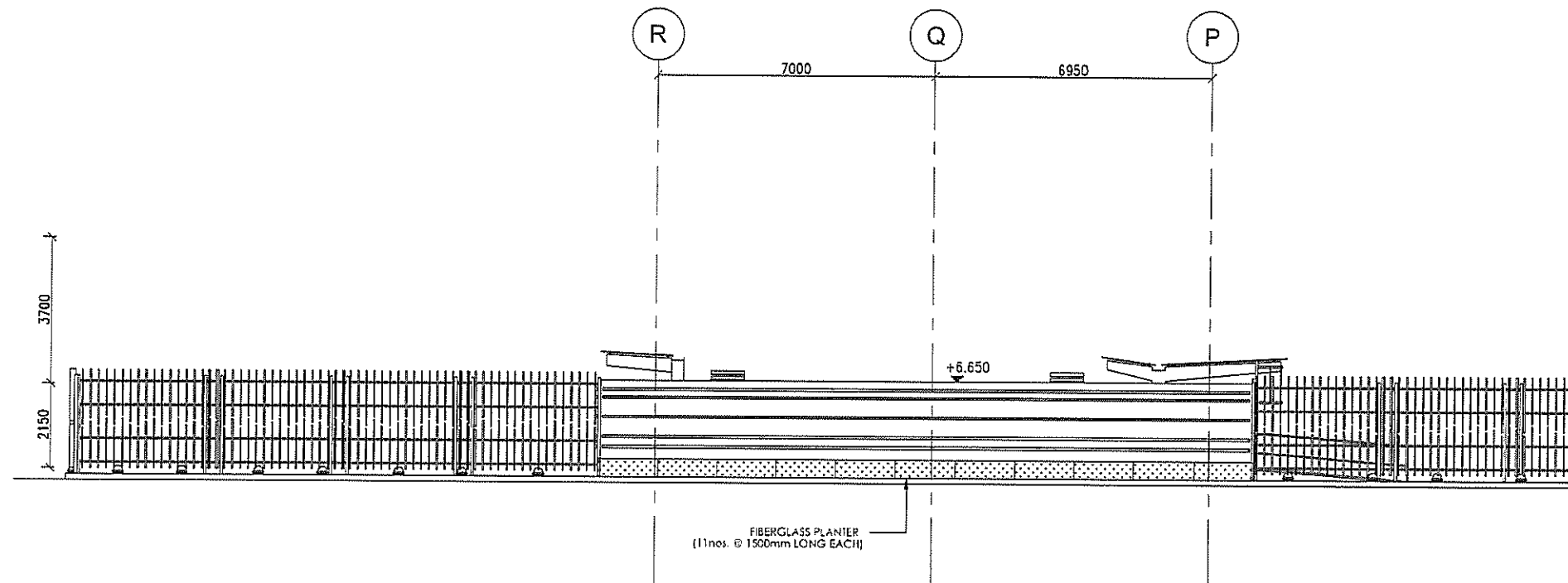
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DESIGNED BY DY	CONTRACT NO. HY/2011/03	APPROVED BY	DATE
DRAWN BY DY	SCALE 1:200@A3	DATE	
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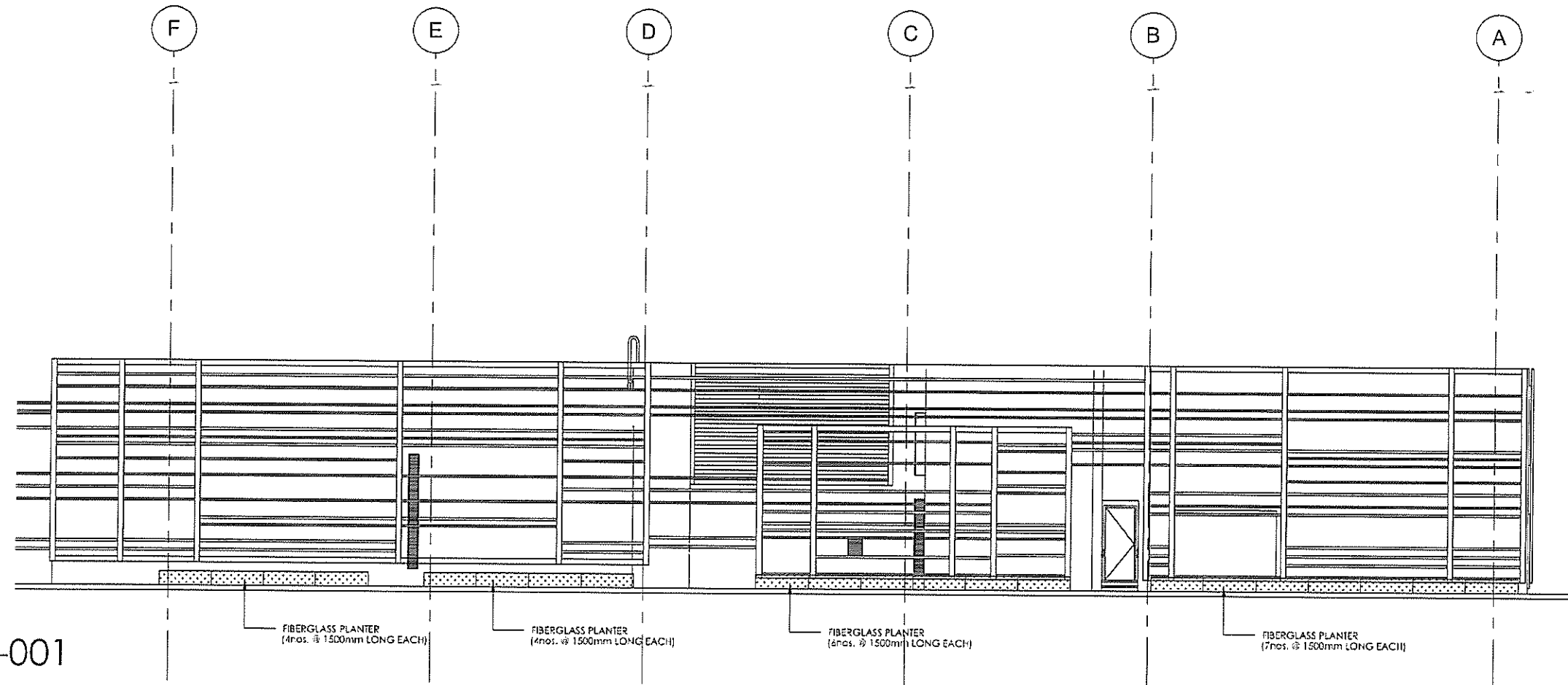
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FIBERGLASS PLANTER

AS-BUILT



REV	DESCRIPTION	BY	DATE
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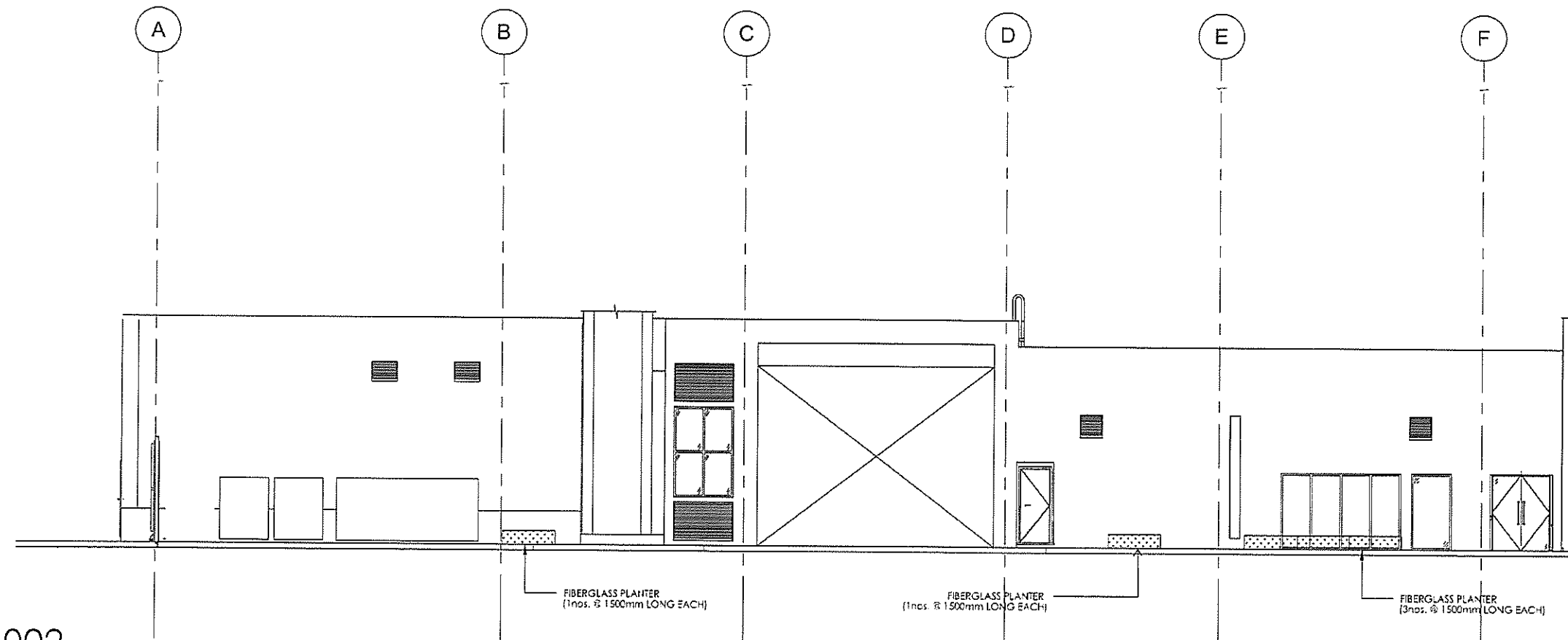
7742-001

FIBERGLASS PLANTER
(4nos. @ 1500mm LONG EACH)

FIBERGLASS PLANTER
(4nos. @ 1500mm LONG EACH)

FIBERGLASS PLANTER
(6nos. @ 1500mm) LONG EACH

FIBERGLASS PLANTER
(7nos. @ 1500mm LONG EACH)



7742-002

FIBERGLASS PLANTER
(1nos. @ 1500mm LONG EACH)

FIBERGLASS PLANTER
(1nos. @ 1500mm LONG EACH)

FIBERGLASS PLANTER
(3nos. @ 1500mm LONG EACH)

AS-BUILT

REV.	DESCRIPTION	BY	DATE
A	As-fitted		21/7

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AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

CONSULTANT ENGINEER
AECOM
AECOM Asia Co. Ltd.

CONTRACTOR
LEIGHTON JOINT VENTURE

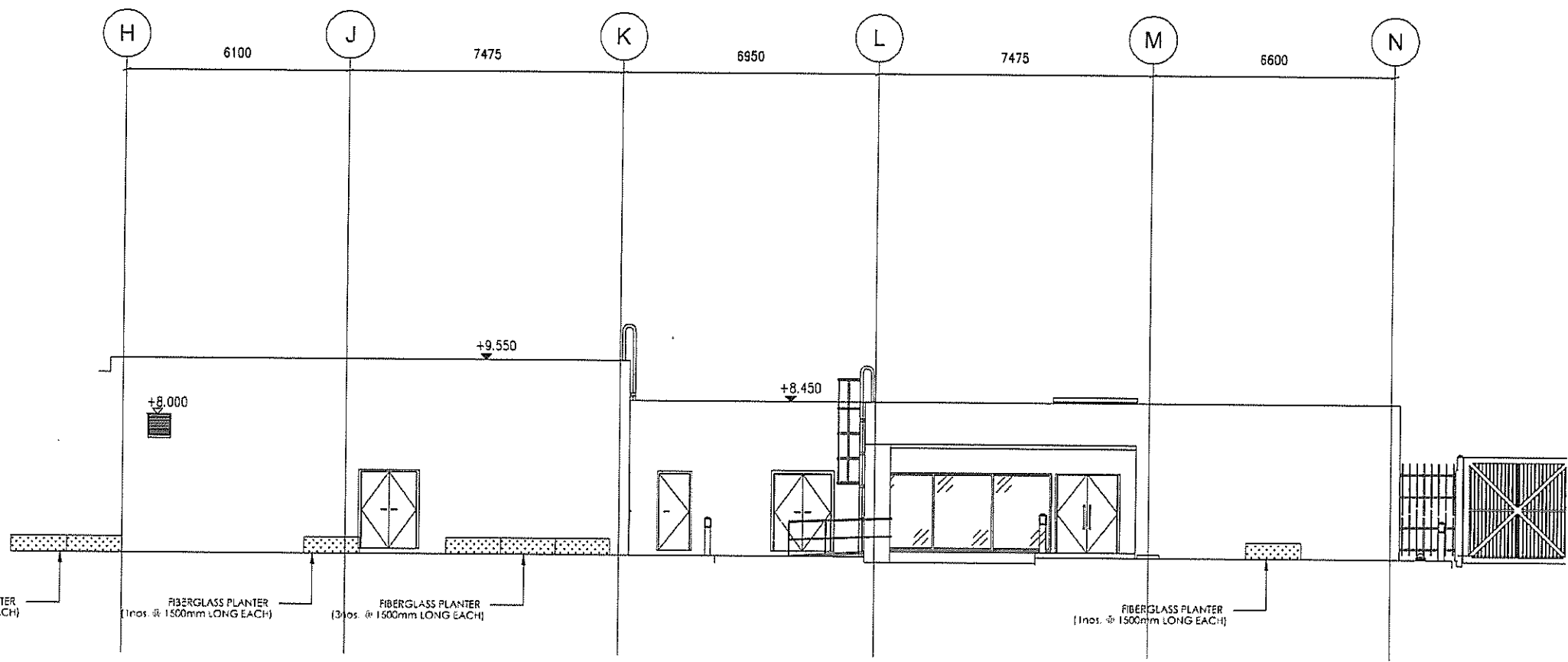
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DRAWING TITLE
ELEVATION 7742

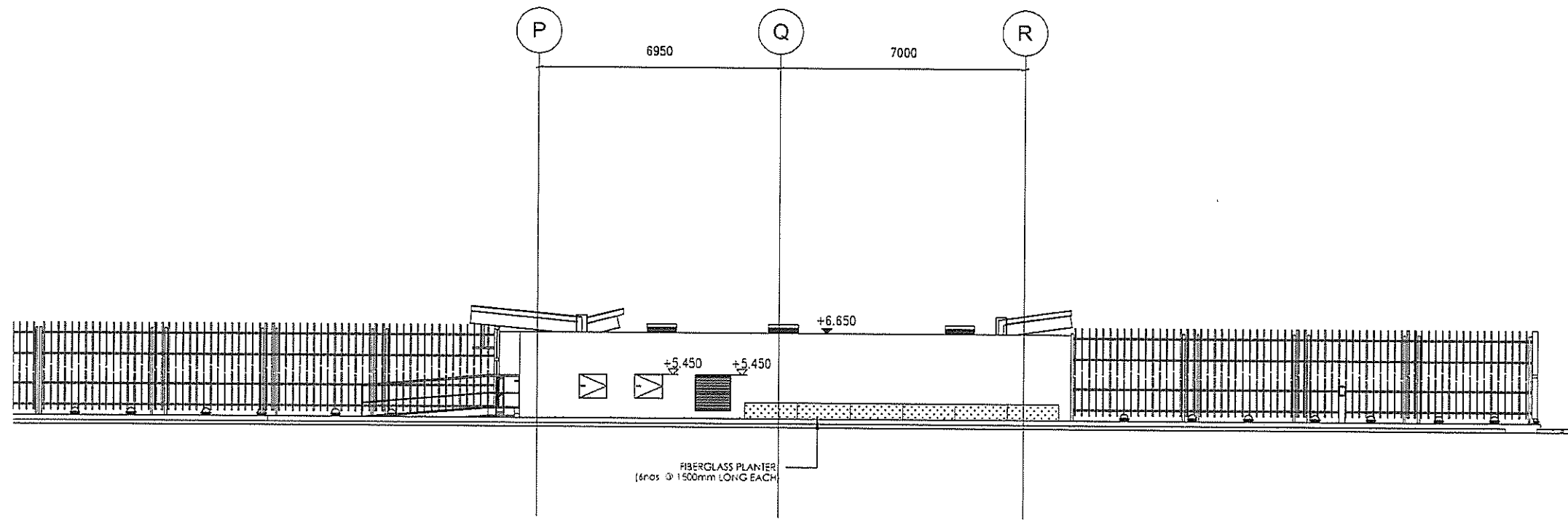
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DESIGN BY LA	CONTRACT NO. HY/2011/08	APPROVED BY
DRAWN BY LA	DATE	

SCALE: 1:150@A3
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7743-001



7743002

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 AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

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AECOM
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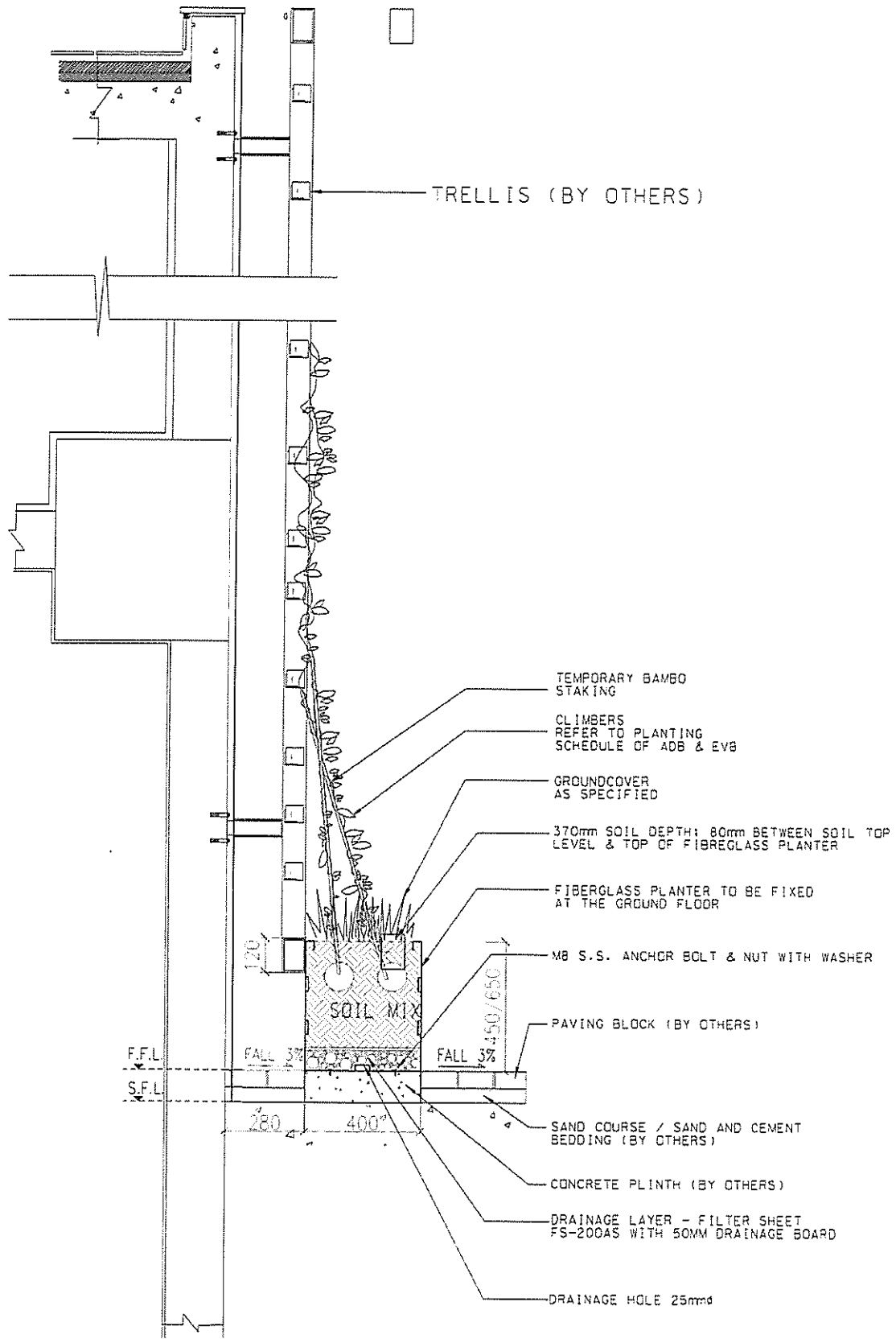
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LEIGHTON JOINT VENTURE

CONSULTANT LANDSCAPE

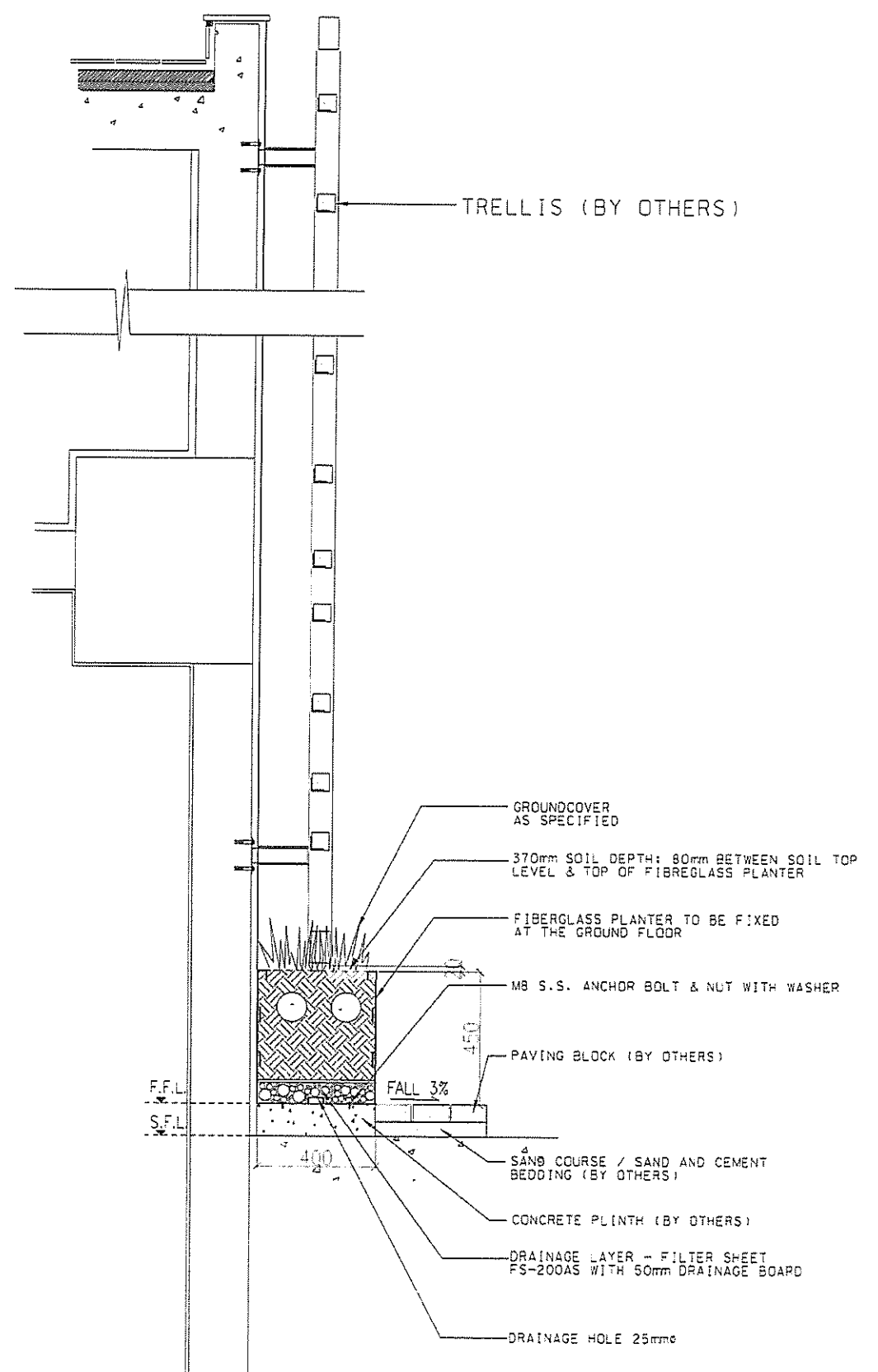
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ELEVATION 7743

DWG. NO. LE - 03 - ADB	CONTRACT NO. HY/2011/08	APPROVED BY
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CHECKED BY	DATE	DATE

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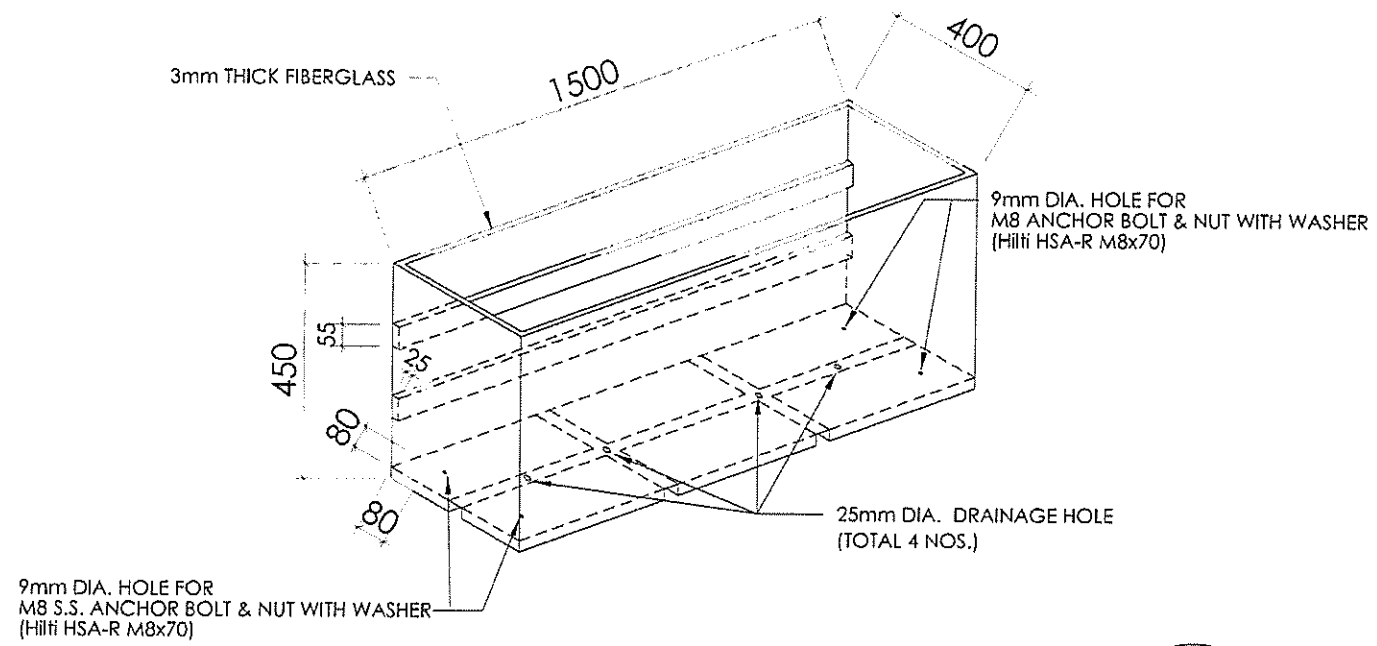
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SECTION SCALE 1:20



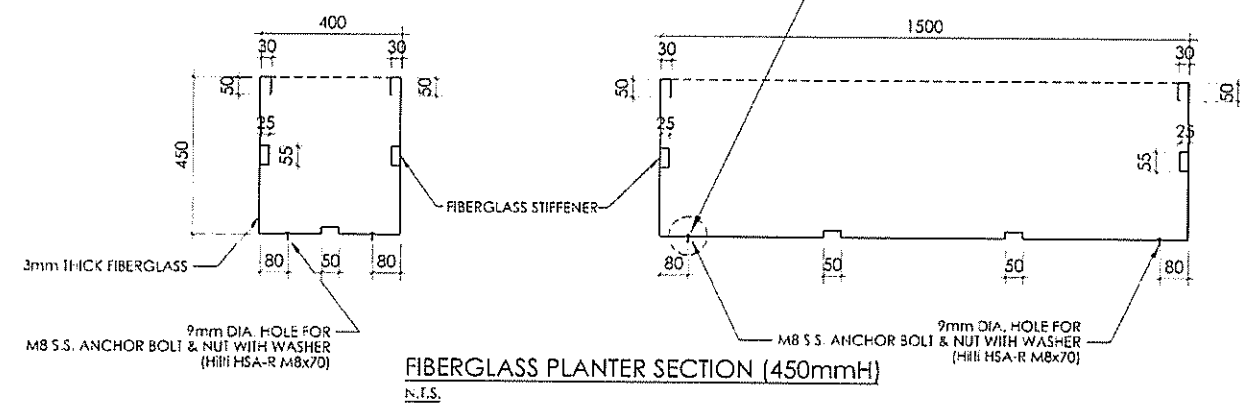
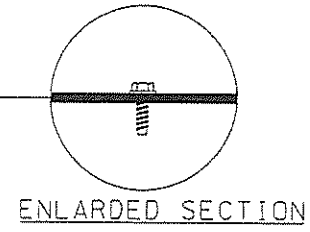
B PLANTER DETAIL FOR SOUTHERN FOOTPATH OF ADB & EVB
SECTION SCALE 1:20

AS-BUILT

REV	DESCRIPTION	BY	CHKD	DATE
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PROJECT				
Highways Department 路政署				
Major Works Project Management Office				
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CENTRAL - WAN CHAI BYPASS - TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING				
CONSULTANT ENGINEER				
AECOM				
AECOM Asia Co. Ltd.				
CONTRACTOR				
LEIGHTON JOINT VENTURE				
CONSULTANT LANDSCAPE				
DRAWING TITLE				
GREEN WALL DETAILS (FIBREGLASS PLANTER)				
DRG. NO. LD-01-ADB				
DESIGN BY	LA	CONTRACT NO.	HY/2011/C8	APPROVED BY
CHECKED BY	LA			
SCALE	AS SHOWN	COPYRIGHT RESERVED		



FIBERGLASS PLANTER
N.T.S.



AS-BUILT

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CONTRACTOR

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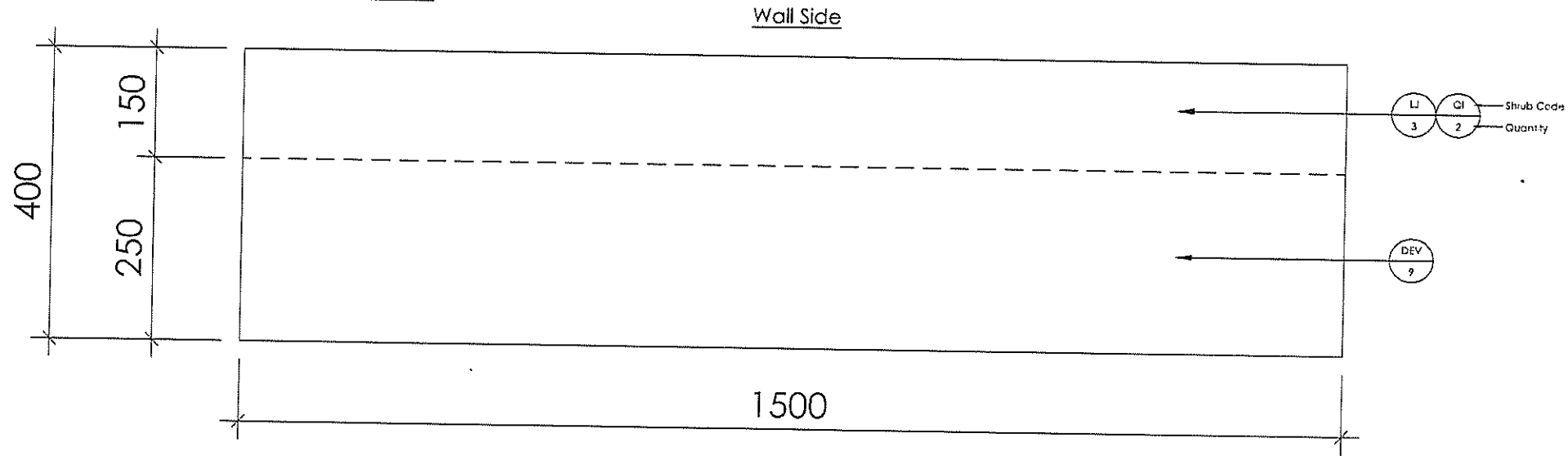
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**GREEN WALL DETAILS
 (FIBERGLASS PLANTER)**

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DRAWN BY 繪圖	LA	APPROVED BY 核對	
SCALE 比例	AS SHOWN	STATUS 圖況	
UNITS AND DIMENSIONS 單位及尺寸	MILLIMETERS		

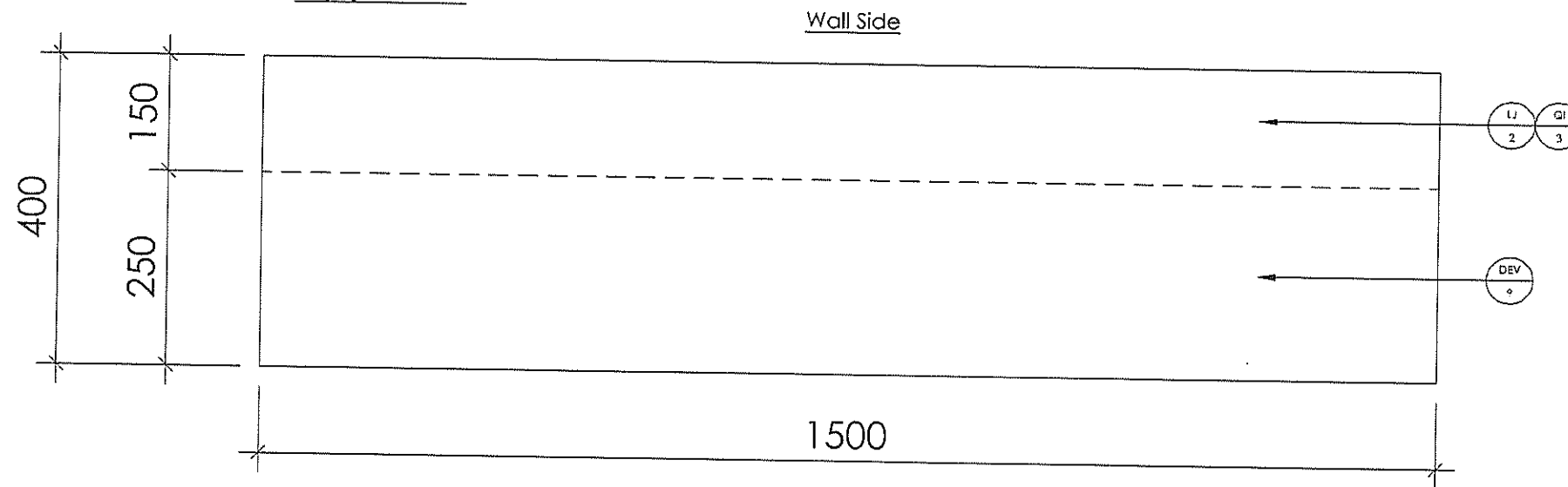
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Planting Scheme for ADB: (Ref. to AECOM letter 08B025035)




Type 1



Type 2



LEGEND

-  DIANELLA ENSIFOLIA "VARIEGATA" 花葉山管蘭
-  LONICERA JAPONICA 金銀花
-  QUISQUALIS INDICA 使君子

AS-BUILT

REV.	DESCRIPTION	BY	DATE
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 TUNNEL BUILDINGS, SYSTEMS AND FITTINGS,
 AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING
 CONSULTANT ENGINEER
AECOM
 AECOM Asia Co. Ltd.

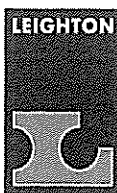
CONTRACTOR
 LEIGHTON JOINT VENTURE

CONSULTANT LANDSCAPE

DRAWING TITLE
**PLANTING SCHEME
 (FIBERGLASS PLANTER)**

DRG. NO.	LD - 03 - ADB		
DESIGN BY	LA	CONTRACT NO.	HY/2011/08
DRAWN BY	LA	STATUS	REV. 11.1
SCALE	N.T.S.		
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Contractor's Submission Form





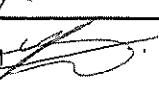
Leighton Joint Venture
39/F Sun Hung Kai Centre
30 Harbour Road, Hong Kong
t: +852 2823 1111
f: +852 2529 8784
e: info@leightonasia.com

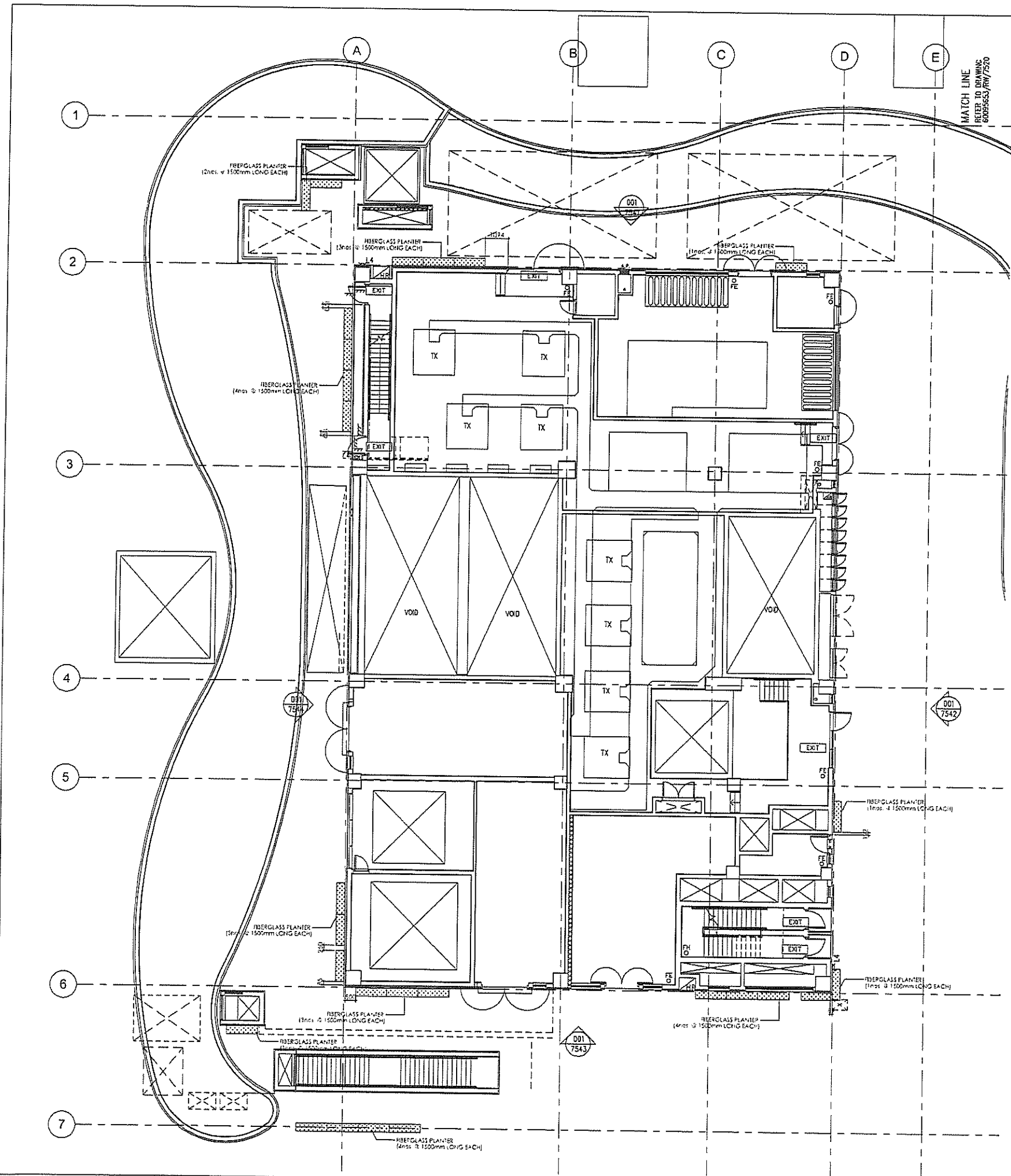
Ref: H2613/CSF/OPR/03730-R0

Date: 24-Sep-2019

Contract: HY/2011/08-- Central-Wan Chai Bypass – Tunnel Buildings, Systems and Fittings, and Works
Associated with Tunnel Commissioning

To: Engineer's Representative, The Chief Resident Engineer Mr. David Kwan Your Ref.: .	
Title of Submission: As-built Drawings of EVB Fibreglass Planter	
Specification:	
We are pleased to submit the following for your review and comment	
Description: We submit herewith the as-built drawings of EVB Fibreglass Planter for your record.	
Purpose of Submission:	For Record, Reference or Information
Contractor's Representative Signature:	Date: 24-Sep-2019
	
Name: Colman Wong Position: Joint Venture's Representative	
Distribution: CW / JC / HyL 	

Prepared by: Jonas LAM 



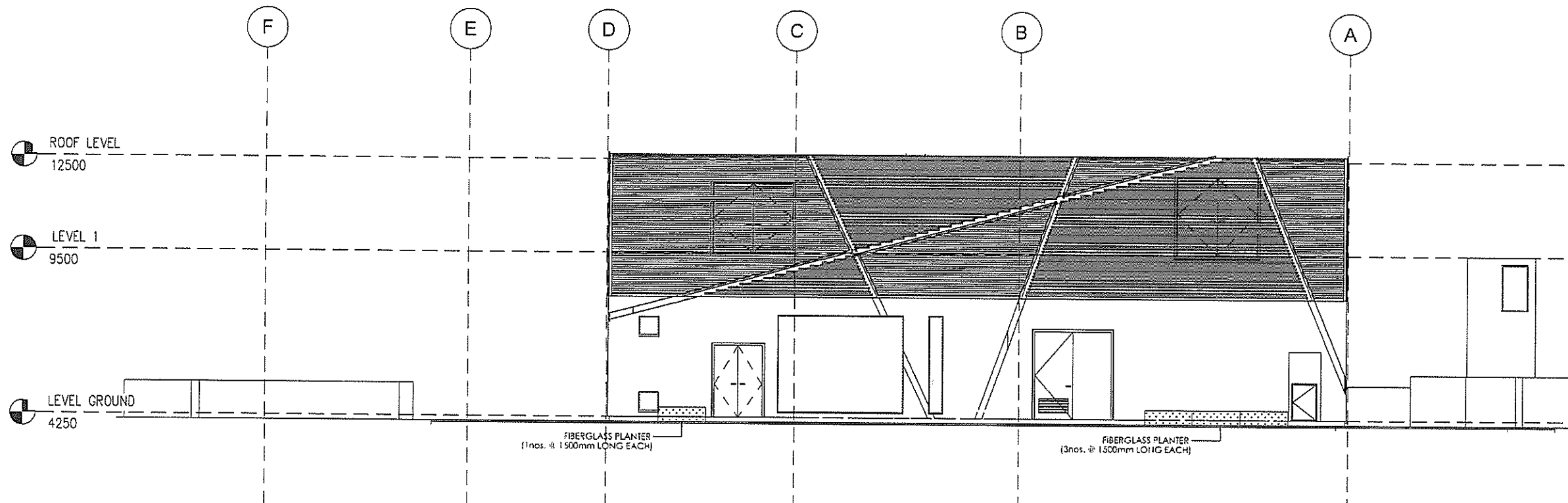
LEGEND

FIBERGLASS PLANTER

AS-BUILT

A As-fitted		-	-	21/7
REV.	DESCRIPTION	BY	CHKD	DATE
01				
<p>Highways Department 路政署</p> <p>Major Works Project Management Office </p> <p>CENTRAL - WAN CHAI BYPASS AND IEC LINK</p> <p>CENTRAL - WAN CHAI BYPASS - TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING</p> <p>CONSULTANT ENGINEER</p> <p>AECOM AECOM Asia Co. Ltd.</p> <p>CONTRACTOR</p> <p> LEIGHTON JOINT VENTURE</p> <p>CONSULTANT LANDSCAPE</p> <p>DRAWING TITLE</p> <p>FIBER GLASS PLANTER PLAN</p> <p>DWG. NO. LP-01-EVB</p> <p>DESIGNED BY LA CHECKED BY LA APPROVED BY LA</p> <p>DRAWN BY LA DATE HY/2011/08 STATUS REV. 1</p> <p>SCALE 1:200@A3</p> <p>SHOWING IN MILLIMETERS © COPYRIGHT RESERVED 版權所</p>				

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 AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

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AECOM
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CONTRACTOR
 LEIGHTON JOINT VENTURE

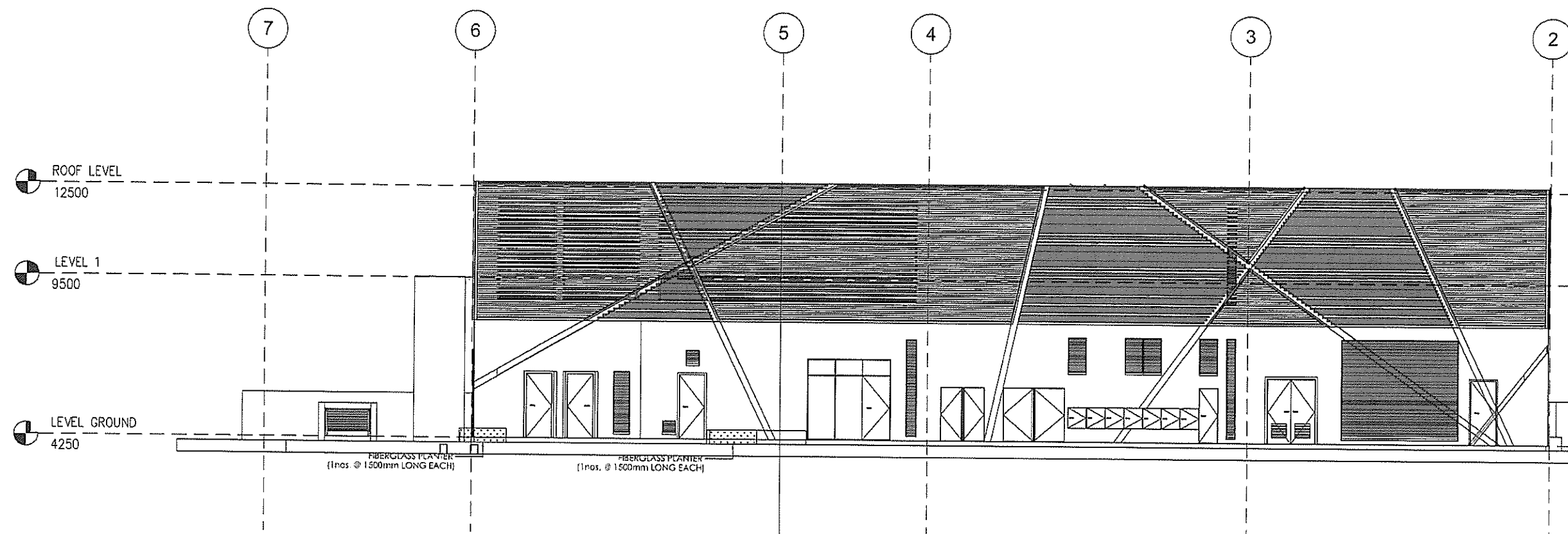
CONSULTANT LANDSCAPE

DRAWING TITLE
ELEVATION 7541

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 AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

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AECOM
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CONTRACTOR

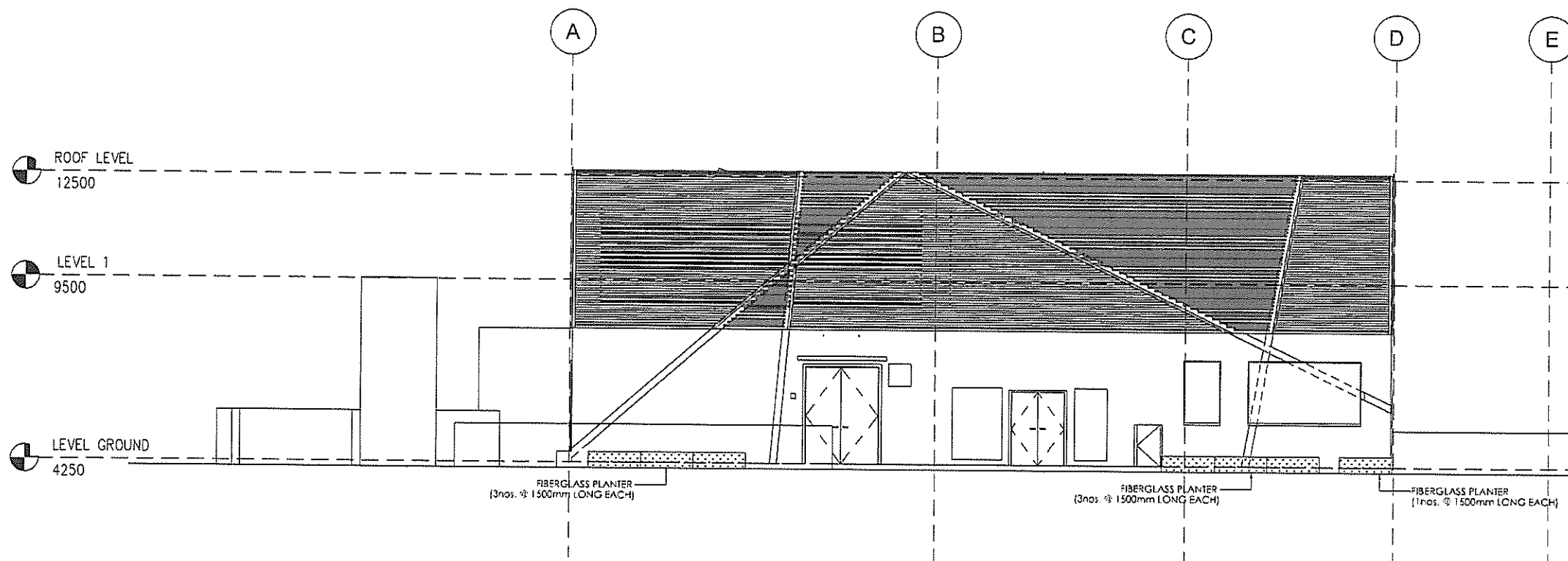
 LEIGHTON JOINT VENTURE

CONSULTANT LANDSCAPE

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 AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

CONSULTANT ENGINEER
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 AECOM Asia Co. Ltd.

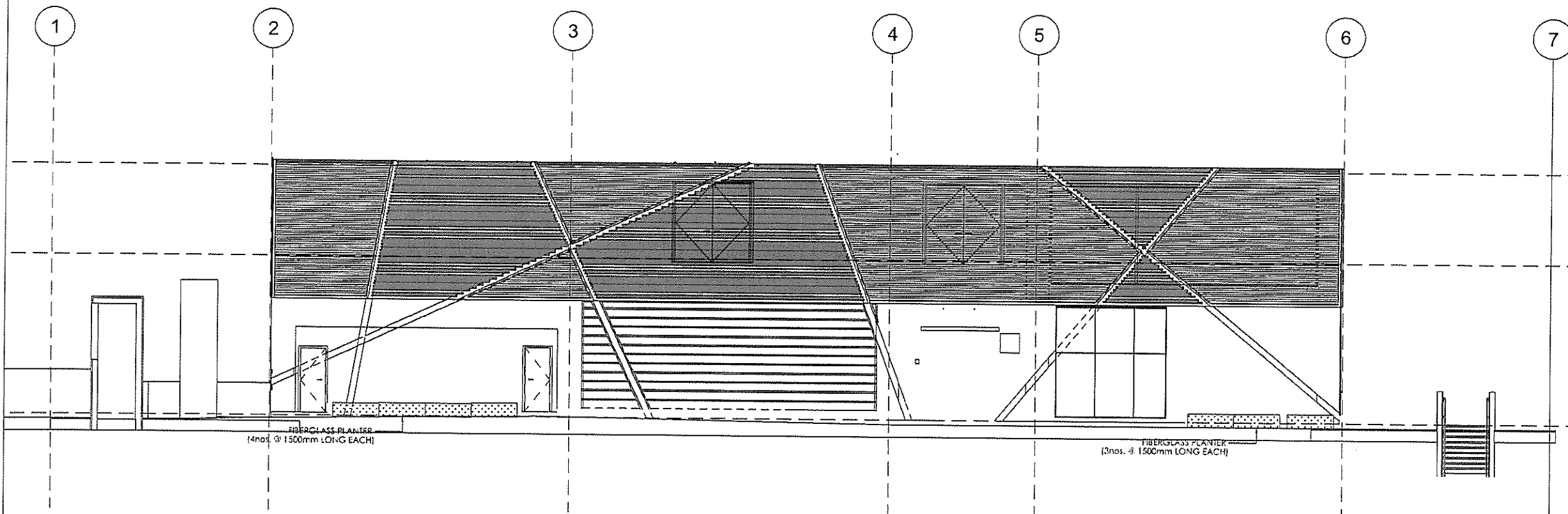
CONTRACTOR
 LEIGHTON JOINT VENTURE

CONSULTANT LANDSCAPE

DRAWING TITLE
ELEVATION 7543

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DRAWN BY	LA	APPROVED BY	
SCALE	1:150 @ A3	STATUS	3
DIMENSIONS	MILLIMETERS	© COPYRIGHT RESERVED	

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 AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

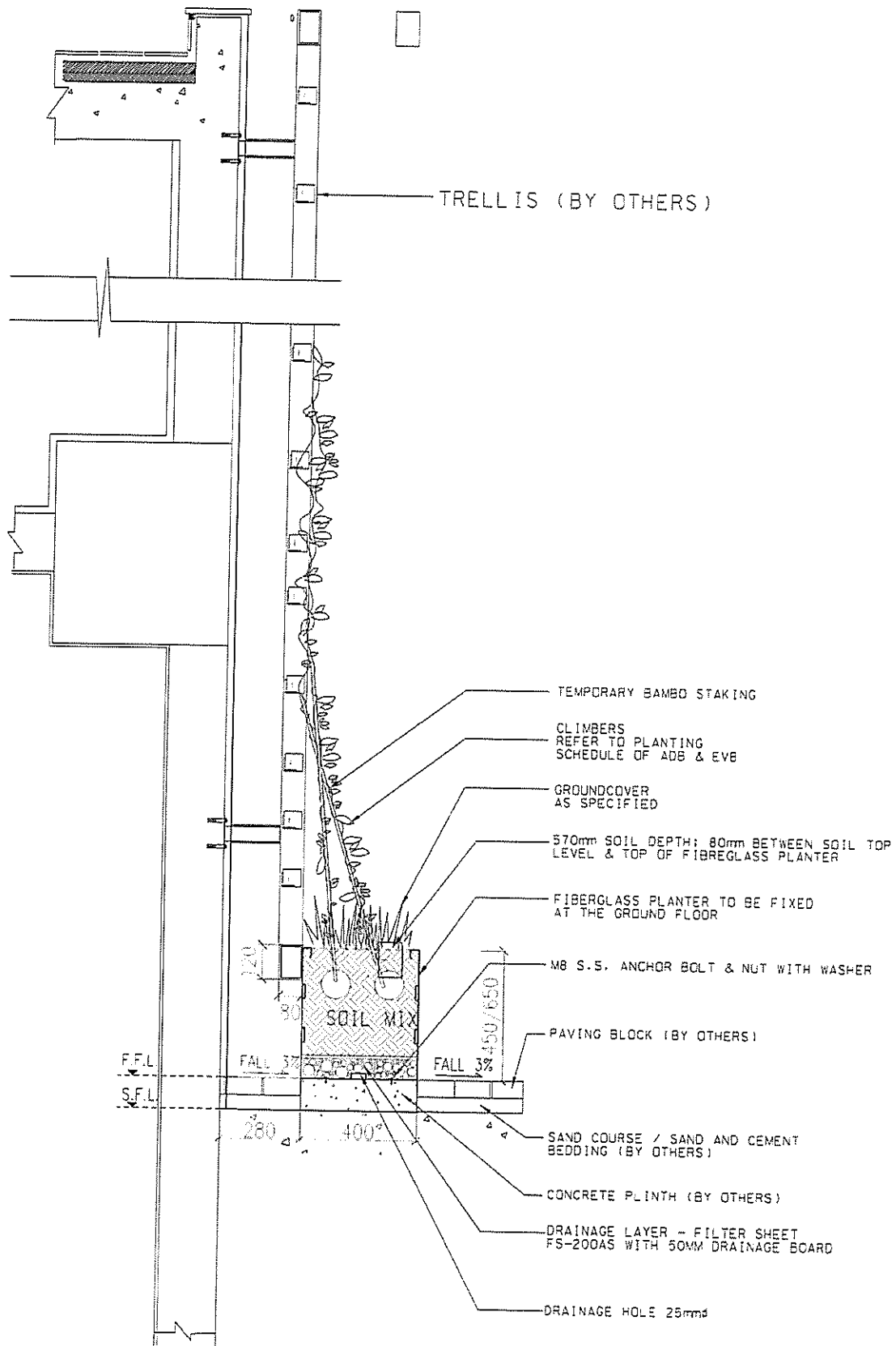
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AECOM
 AECOM Asia Co. Ltd.

CONTRACTOR
 LEIGHTON JOINT VENTURE

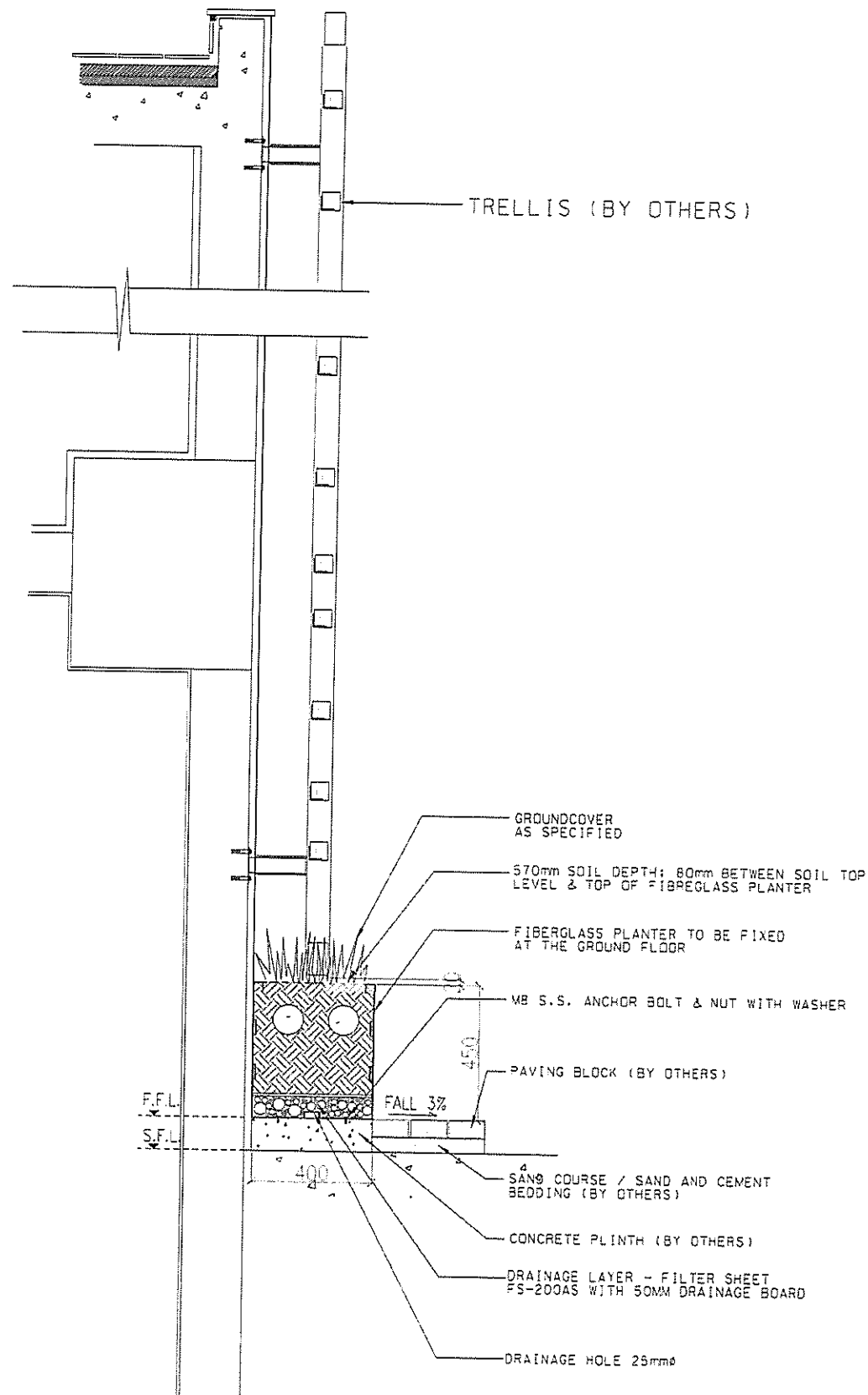
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DRAWING TITLE
ELEVATION 7544

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DESIGN BY LA	CHECKED BY HY/2011/08	APPROVED BY
DRAWN BY LA	STATUS	
SCALE 1:150 @ A3		
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A PLANTER DETAIL
SECTION SCALE 1:20



B PLANTER DETAIL FOR SOUTHERN FOOTPATH OF ADB & EVB
SECTION SCALE 1:20

AS-BUILT

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AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

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AECOM
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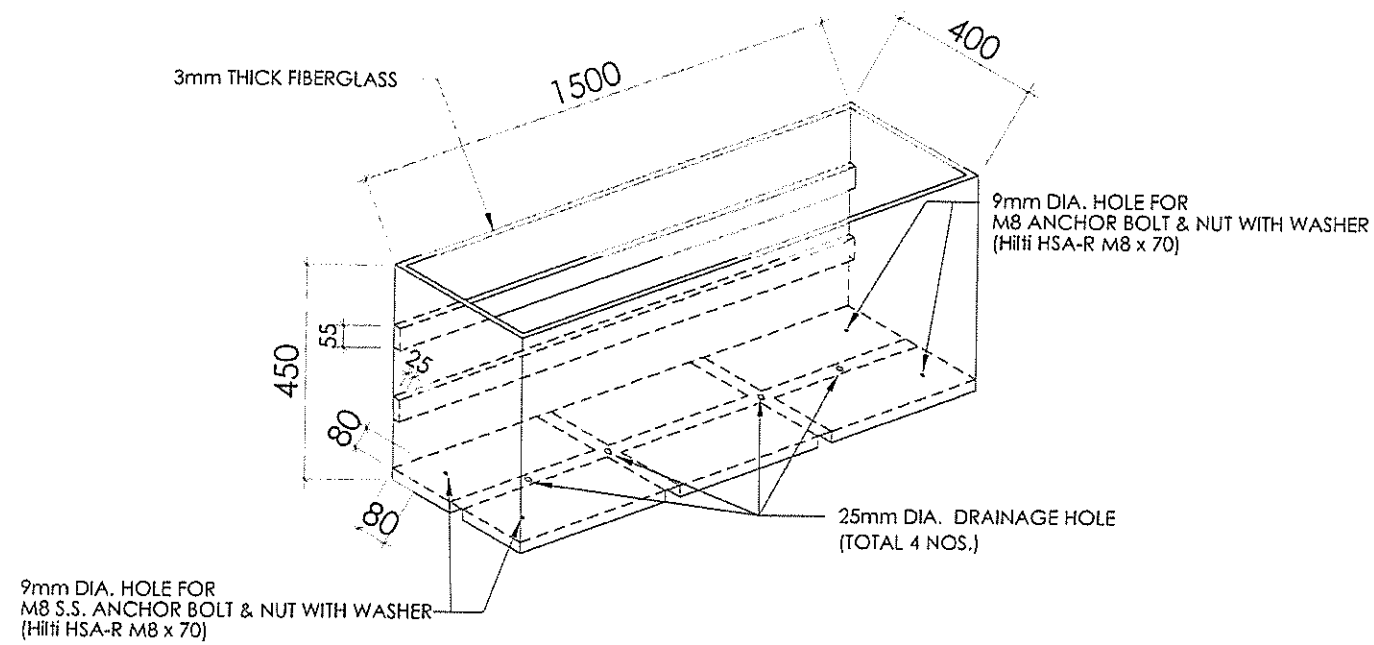
CONTRACTOR
LEIGHTON JOINT VENTURE

CONSULTANT LANDSCAPE

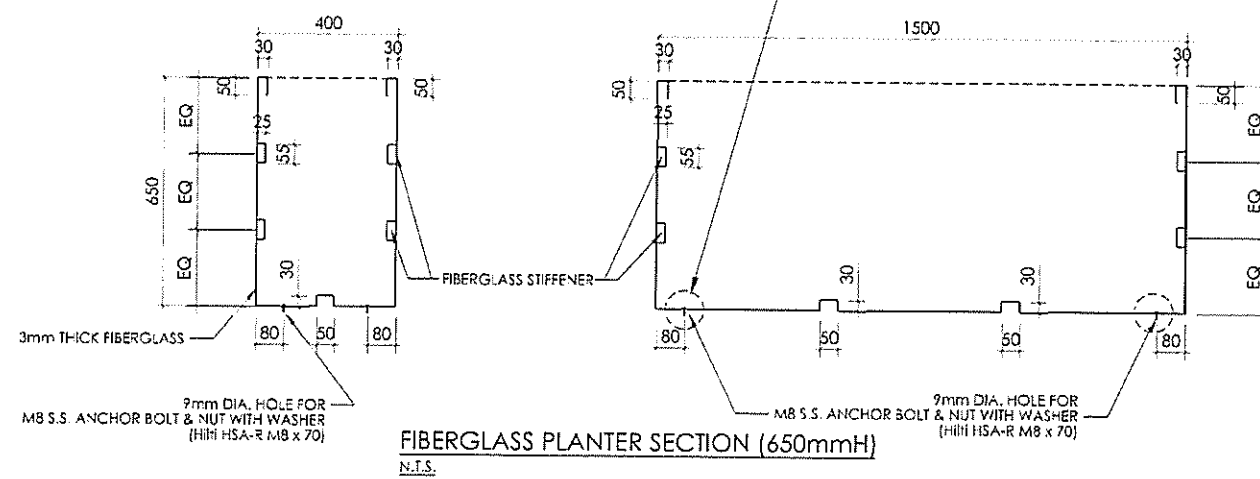
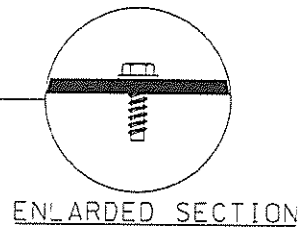
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**GREEN WALL DETAILS
(FIBREGLASS PLANTER)**

DRG NO.	LD - 01 - EVB
DESIGN BY	LA
DESIGN BY	LA
SCALE	AS SHOWN
UNITS	MILLIMETERS

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FIBERGLASS PLANTER
N.T.S.



FIBERGLASS PLANTER SECTION (650mmH)
N.T.S.

AS-BUILT

A	As-fitted	-	-	21
NO.	DESCRIPTION	BY	CHK	DATE
1				

Highways Department 路政署
Major Works Project Management Office
CENTRAL - WAN CHAI BYPASS AND IEC LINK
CENTRAL - WAN CHAI BYPASS -
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS,
AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING
CONSULTANT ENGINEER
AECOM
AECOM Asia Co. Ltd.

CONTRACTOR
LEIGHTON JOINT VENTURE

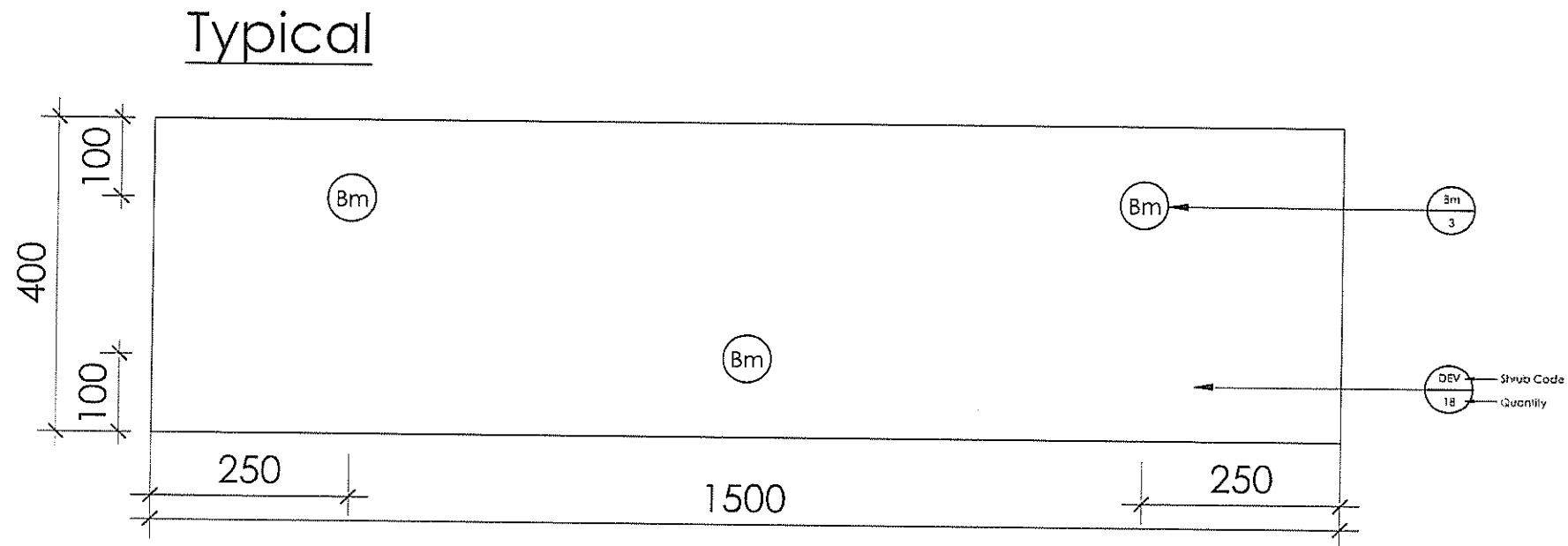
CONSULTANT LANDSCAPE

DRAWING TITLE
**GREEN WALL DETAILS
(FIBERGLASS PLANTER)**

DRG. NO. LD - 02 - EVB	SCALE AS SHOWN	CONTRACT NO. HY/2011/CB	APPROVED BY
DESIGN BY LA	DRAWN BY LA	DATE	REVISION
DIMENSIONS IN MILLIMETERS		© COPYRIGHT RESERVED	

Planting Scheme for EVB:

(Ref. to T.P.B. submission record, drawing No. T73-EVB-PS-01/A)



LEGEND

- DEV DIANELLA ENSIFOLIA "VARIEGATA" 花葉山管蘭
- Bm BAMBUSA MULTIPLEX VAR. RIVIEREORUM 觀音竹

AS-BUILT

REV	DESCRIPTION	BY	DATE
A	As-fitted	--	21/7

Highways Department 路政署
 Major Works Project Management Office
 CENTRAL - WAN CHAI BYPASS AND IEC LINK
 CENTRAL - WAN CHAI BYPASS -
 TUNNEL BUILDINGS, SYSTEMS AND FITTINGS
 AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

CONSULTANT ENGINEER
AECOM
 AECOM Asia Co. Ltd.

CONTRACTOR
 LEIGHTON JOINT VENTURE

CONSULTANT LANDSCAPE

DRAWING TITLE
**PLANTING SCHEME
 (FIBERGLASS PLANTER)**

ORG. NO.	LD - 03 - EVB
DESIGN BY	LA
DRAWN BY	LA
SCALE	N.T.S.
CONTRACT NO.	HY/2011/08
APPROVED BY	
DATE	

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MVB

CLADDING

DESIGN

Appendix D

Summary of Compensatory for Damaged Trees

Contractor's Submission Form



eighton Joint Venture

9/F Sun Hung Kai Centre
30 Harbour Road, Hong Kong

t: +852 2823 1111
f: +852 2529 8784
e: info@leightonasia.com

Ref: H2613/CSF/OPR/03530-R1

Date: 12 MAR 2019

12 MAR 2019

Contract: HY/2011/08– Central-Wan Chai Bypass – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning

To: Engineer's Representative, The Chief Resident Engineer Mr. David Kwan
Your Ref.:

Title of Submission: Revised Compensation Proposal for 13no. Typhoon Damaged Trees
Specification:

We are pleased to submit the following for your review and comment

Description:

Due to the original species of the damaged trees are out of stock in the current market after typhoon "Mangkhut" on 17 Sep 2019, we submit herewith the revised compensatory proposal to supersede the previous one without time and cost implication for your approval.

Purpose of Submission: FOR APPROVAL

Contractor's Representative
Signature: Date: 12 MAR 2019

Name: Colman Wong
Position: Joint Venture's Representative

Distribution: CW / JC / HyL

Prepared by: WL



TOYO GREENLAND CO., LTD.
東陽綠化有限公司



Leighton Joint Venture
39th Floor, Sun Hung Kai Centre
30 Harbour Road
Hong Kong

Ref.: C2492/19/TGD0428
Date: 27 February 2019

Tel: (3973 1484 / 6680 0943)
By Fax: (2140 6799)
By Email: Jonas.LAM@leightonasia.com

Attn: Mr. Jonas W.K. LAM

Dear Sir,

Contract No.: HY/2011/08
Central - Wan Chai Bypass -
Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning
Submission of Tree Compensatory Proposal

Further to the drawing no.: 60095653/RW/SK0567B, we would like to submit herewith the tree compensatory proposal for your reference.

If you require further information, please feel free to contact our Ms. Chris SHUM on 3760 1926 or the undersigned on 9090 9912.

Yours faithfully,
TOYO GREENLAND CO., LTD.

PP Chris Shum

Mr. HO Tat Pui, Daniel
Managing Director
DH/DA/AT/cs

Encl. Drawing and Tree Compensatory Proposal



Contract No.: HY/2011/08

Central - Wan Chai Bypass -

Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning

Submission of the Tree Compensatory Proposal

Ref.: C2492/19/TGD0424Q

Date: 27 February 2019

Item	Tree Nr.	Original Species	Contractor's Treatment (Retain / Transplant / Fell)	Remark	Proposed Compensatory		
					Species	Size	Quantity
1	T1900	<i>Ficus virens</i> 大葉榕	Transplant	Damaged by Typhoon Signal No. 10 of "Mangkhut" on 17 Sep 2018	<i>Tabebuia chrysantha</i> 黃花風鈴木	Heavy Standard Tree	1
2	T1902	<i>Ficus benjamina</i> 垂葉榕	Transplant		<i>Tabebuia chrysantha</i> 黃花風鈴木	Heavy Standard Tree	1
3	T1903	<i>Ficus benjamina</i> 垂葉榕	Transplant		<i>Tabebuia chrysantha</i> 黃花風鈴木	Heavy Standard Tree	1
4	T1904	<i>Ficus benjamina</i> 垂葉榕	Transplant		<i>Tabebuia chrysantha</i> 黃花風鈴木	Heavy Standard Tree	1
5	T1905	<i>Macaranga tanarius</i> 血桐	Transplant		<i>Tabebuia chrysantha</i> 黃花風鈴木	Heavy Standard Tree	1
6	T1906	<i>Celtis sinensis</i> 朴樹	Transplant		<i>Tabebuia chrysantha</i> 黃花風鈴木	Heavy Standard Tree	1
7	T1907	<i>Ficus variegata</i> 青果榕	Transplant		<i>Tabebuia chrysantha</i> 黃花風鈴木	Heavy Standard Tree	1
8	T1908	<i>Albizia lebbek</i> 大葉合歡	Transplant		<i>Tabebuia chrysantha</i> 黃花風鈴木	Heavy Standard Tree	1
9	T1909	<i>Bombax ceiba</i> 木棉	Transplant		<i>Tabebuia chrysantha</i> 黃花風鈴木	Heavy Standard Tree	1
10	T1910	<i>Ficus virens</i> 大葉榕	Transplant		<i>Tabebuia chrysantha</i> 黃花風鈴木	Heavy Standard Tree	1
11	T1911	<i>Albizia lebbek</i> 大葉合歡	Transplant		<i>Tabebuia chrysantha</i> 黃花風鈴木	Heavy Standard Tree	1
12	T1912	<i>Ficus benjamina</i> 垂葉榕	Transplant		<i>Tabebuia chrysantha</i> 黃花風鈴木	Heavy Standard Tree	1
13	T2015	<i>Ficus microcarpa</i> 細葉榕	Transplant		<i>Tabebuia chrysantha</i> 黃花風鈴木	Heavy Standard Tree	1

From: Michael YH LO
To: Ng Ka Yiu, Yo Yo
Cc: "Jaime PS CHAN"; "YP TANG"; Yu Hing Wai Randy, SRE(C), CC Office; Chin Wai Man Nelson, RE(C), CC Office; Mr. Lok Yin Ming, James - Highways Department; Cheung Cheuk Wai; CWDO
Subject: 轉寄: HY/2011/08 - Submission of Tree Compensatory Proposal for 13 nos of Typhoon Damaged Trees
Date: Monday, 18 March, 2019 2:45:37 PM
Attachments: HY_2011_08_13 Typhoon Damaged Trees Tree Damage Report CSE03530_R0.pdf
HY_2011_08_13 Typhoon Damaged Trees Revised Compensatory Proposal CSE03530_R1.pdf

Dear Yo Yo,

Your preceding email refers.

Please be informed that this office has **no objection in principle** on your revised compensation proposal. A 12-months establishment period should be provided upon the trees planted up to the satisfaction of this office.

Thank you.

Michael LO
ADLM(C&W)3
LCSD
Tel: 2853 2569

GR - pls on file.

----- Forwarded by Michael YH LO/LCSD/HKSARG on 18/03/2019 14:34 -----

From: "Ng Ka Yiu, Yo Yo" <yoyo.ng@cwbaecom.com>
To: "myhlo@lcsd.gov.hk" <myhlo@lcsd.gov.hk>; "Jaime PS CHAN" <jpschan@lcsd.gov.hk>; "YP TANG" <yptang@lcsd.gov.hk>
Cc: "Yu Hing Wai Randy, SRE(C), CC Office" <randy.yu@cc-cwb-aecom.com>; "Chin Wai Man Nelson, RE(C), CC Office" <nelson.chin@cc-cwb-aecom.com>; "Mr. Lok Yin Ming, James - Highways Department" <e1cwb.mw@hyd.gov.hk>; Cheung Cheuk Wai <cw.cheung@cwbaecom.com>
Date: 12/03/2019 15:00
Subject: HY/2011/08 - Submission of Tree Compensatory Proposal for 13 nos of Typhoon Damaged Trees

Dear Michael,

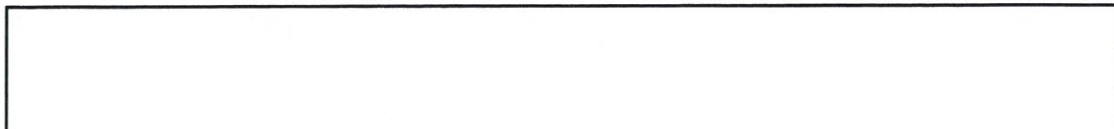
It was recorded that a total 13 number of transplanted trees in the holding nursery of the captioned Contract had been severely damaged during the time of Super Typhoon Mangkhut swirled in Hong Kong (i.e. Signal No.10 hoisted on 16 Sept. 2018) including

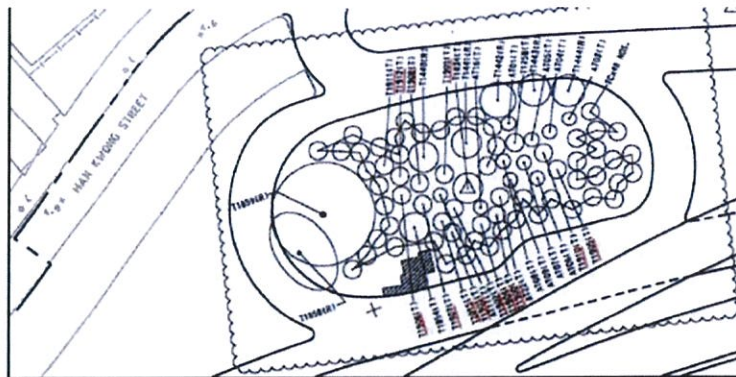
1. T1900 (T)_ *Ficus virens* 大葉榕,
2. T1902 (T)_ *Ficus benjamina* 垂葉榕,
3. T1903 (T)_ *Ficus benjamina* 垂葉榕,
4. T1904 (T)_ *Ficus benjamina* 垂葉榕,
5. T1905 (T)_ *Macaranga tanarius* 血桐,
6. T1906 (T)_ *Celtis sinensis* 朴樹,
7. T1907 (T)_ *Ficus variegata* 青果榕,
8. T1908 (T)_ *Albizia lebbbeck* 大葉合歡,
9. T1909 (T)_ *Bombax ceiba* 木棉,
10. T1910 (T)_ *Ficus virens* 大葉榕,
11. T1911 (T)_ *Albizia lebbbeck* 大葉合歡,
12. T1912 (T)_ *Ficus benjamina* 垂葉榕, and
13. T2015 (T)_ *Ficus microcarpa* 細葉榕

These trees were identified as unrecoverable conditions with high risk of failure thus they were subsequently removed from the nursery for safety sake following with para. 40 of DEVB TC(W) No. 7/2015, and replacement planting would be carried out by the Contractor.

Under the recent Contractor's submission of the revised compensation proposal, please note that provision of compensatory trees would be adopted single tree species *Tabebuia chrysantha* 黃花風鈴木 with heavy standard size due to the original species of those damaged trees are not available in the current market as reported by our Contractor and reflected in the submission accordingly. Notwithstanding, this proposed species has been taken into account the integration of the surrounding environment of the final planting location and accommodation of the planting theme for Central (i.e. Heart of Gold) under CEDD's Greening Master Plan. In this connection, we would like to seek your comment on this revised compensation proposal from your maintenance point of view.

For your information, the final location of those compensatory trees would be followed with the original designated locations under the Contract (i.e. newly formed planter nearby Man Kwong Street in Central under your ambit). Their final location is shown below for your easy reference.





Final locations of 13 compensatory trees

Please refer to the following for more details about the Contractor's submissions (as attached):-

- **Contractor's tree damage report ref. H2613/CSF/OPR/03530-R0 dated 7 Jan. 2019**
 - Showing the detailed information of the mentioned 13 trees with photo records in nursery and tree schedule; the compensatory proposal under this submission is replaced by the revised compensation proposal ref. H2613/CSF/OPR/03530-R1 dated 4 Mar. 2019.
- **Contractor's revised compensation proposal ref. H2613/CSF/OPR/03530-R1 dated 4 Mar. 2019**
 - Revised replacement plan by proposing single tree species (i.e. *Tabebuia chrysantha* 黃花風鈴木) accompanied with tree schedule and location layout.

Meanwhile, the above reports would be submitted to LandsD and copied to LCSO for formal record, if you have no comment on the revised compensation proposal.

Grateful for your reply **by COP on 15 March 2019**. Sorry for the rush.

Should you have any queries, please feel free to contact the undersigned or my Field Officer Mr. Cheung Cheuk Wai at 6822 5477.

Thanks and Regards,

Yo Yo NG
Senior Resident Landscape Architect
Central - Wan Chai Bypass and Island Eastern Corridor Link
AECOM
M : 6463 3062
O : 3912 3338
F : 3912 3010

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Appendix E

Photographic Record of Soft Landscape and Hard Landscape Works

V1 - East Ventilation Building



V2 – West Ventilation Building



V3 - Man Kwong Street East (near Central Piers)



V4 - Man Kwong Street Middle (near Central Piers)



V5 - Man Kwong Street West



V6 - Connaught Road Central Flyover (near Four Seasons Hotel)



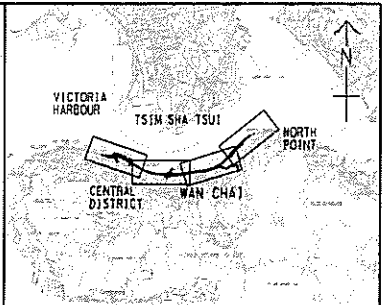
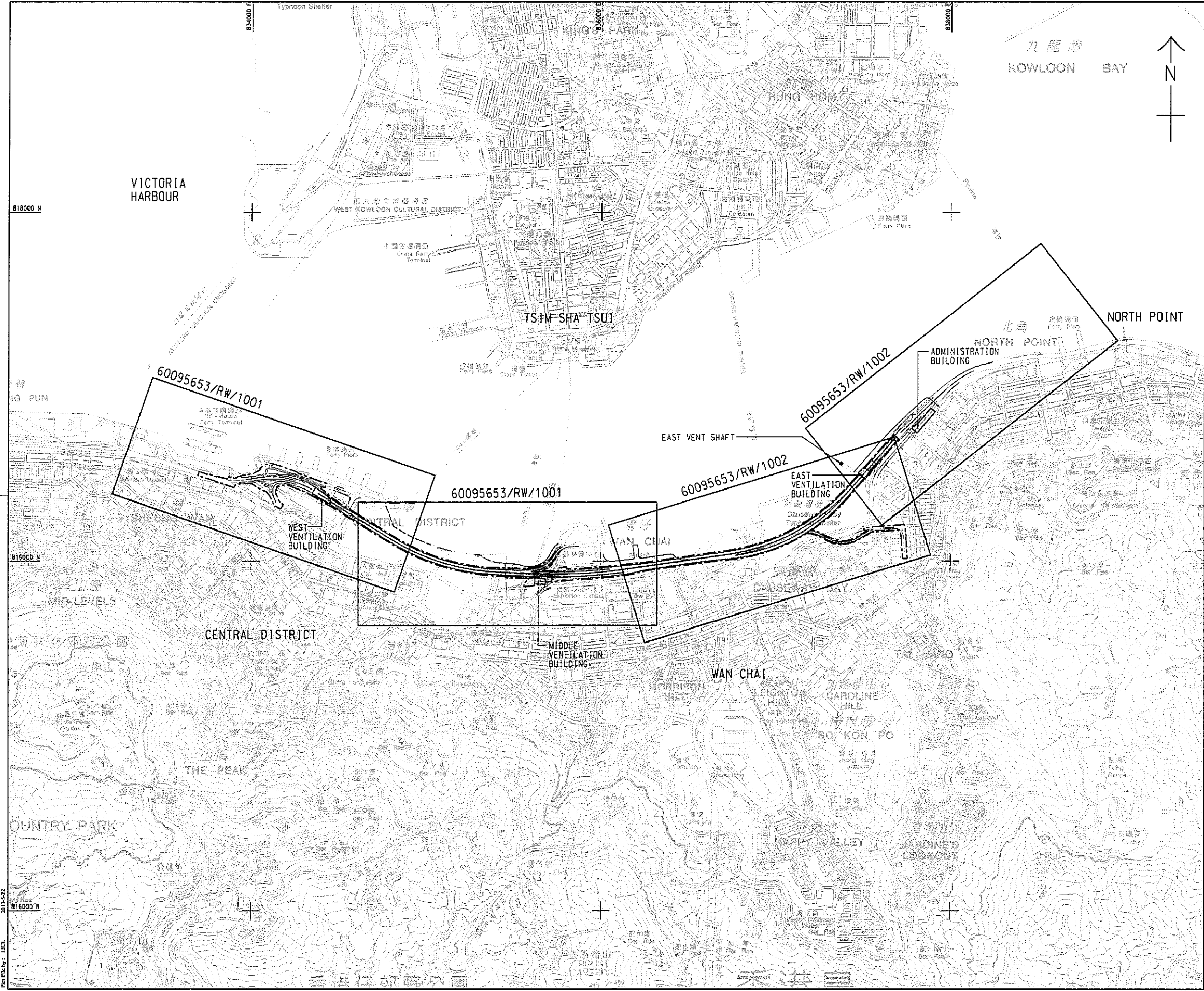
V7 – East Ventilation Shaft



V8 – Administration Building



Figure 1
Key Plan and General Layout Plan

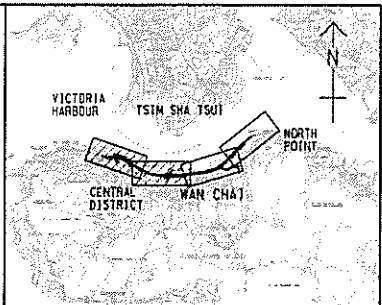
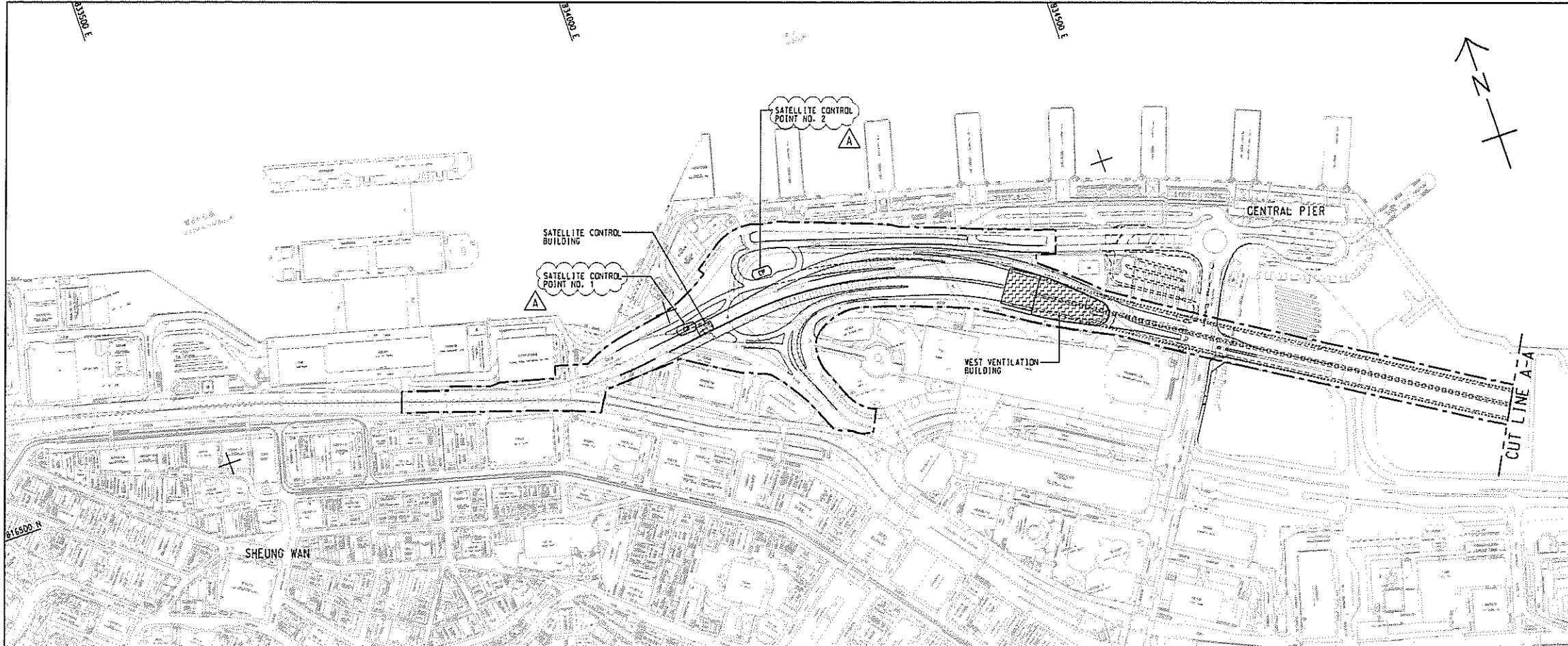


LOCATION PLAN
SCALE A1 : 1 : 100000
A3 : 1 : 200000

LEGEND:
- - - - - SITE BOUNDARY

TENDER DRAWING	JWNA/ALCF/MAY 13
Highways Department 路政署	Major Works Project Management Office
CENTRAL - WAN CHAI BYPASS AND IEC LINK	
PWP ITEM NO. 工務計劃項目編號	579 TH
CENTRAL - WAN CHAI BYPASS - TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING	
KEY PLAN	
AECOM	
DRGNO. 圖紙編號	60095653/RW/1000
DESIGNED BY 設計	ALCF
CONTRACT NO. 合約編號	NY/2011/08
APPROVED BY 核准	CWY
DRAWN BY 繪圖	LTL
SCALE 比例尺	A1 : 1 : 10000 A3 : 1 : 20000
UNIT 單位	METRES
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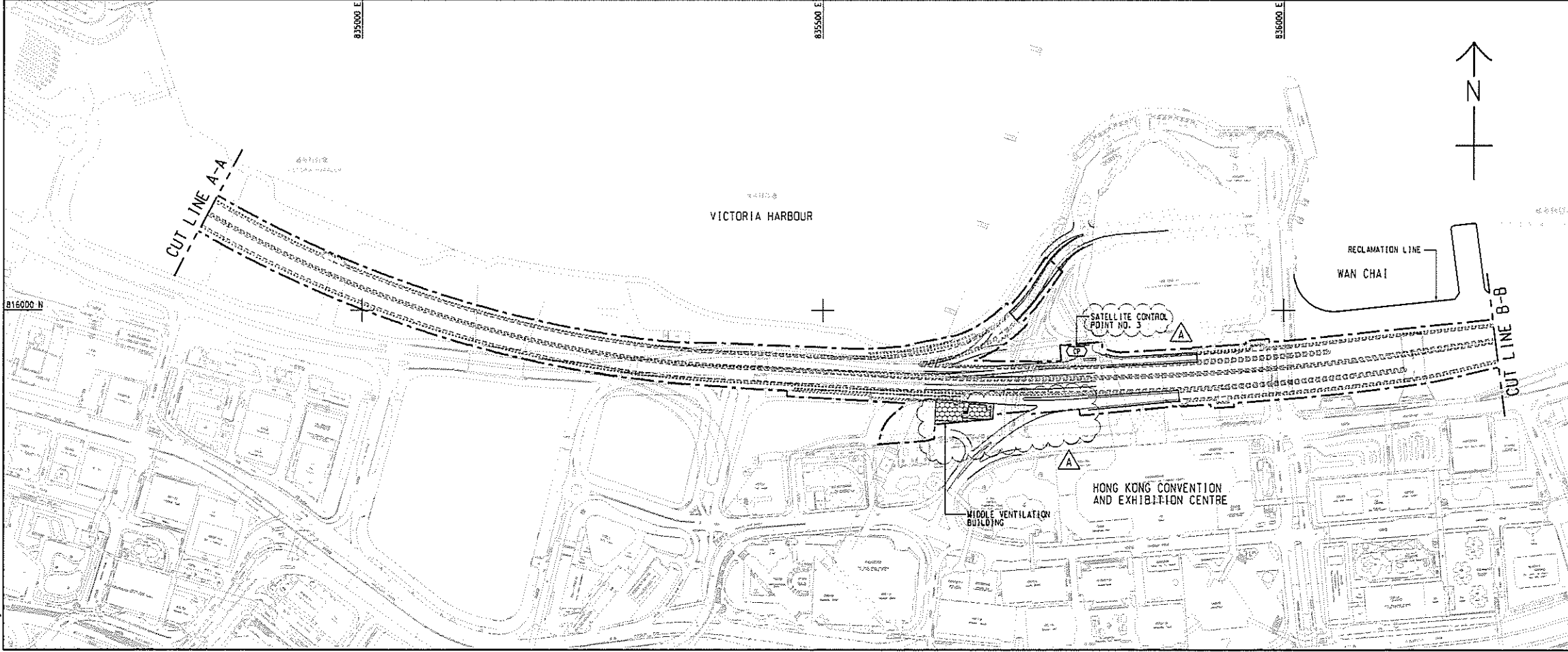
2011-5-22
816000 N
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KEY PLAN
SCALE A1 : 100000
A3 : 200000

- NOTES:**
- THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NO. 60095653/RW/1002.
 - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 - DETAILS INCLUDING DIMENSIONS, LEVELS, DESCRIPTIONS, LOCATIONS, ETC. GIVEN FOR EXISTING ROADS, FOOTPATHS, BRIDGE STRUCTURES ARE INDICATIVE ONLY. THE CONTRACTOR SHALL VERIFY THE ACTUAL EXISTING DETAILS ON SITE.

- LEGEND:**
- SITE BOUNDARY
 - CP CONTROL POINT
 - West Ventilation Building
 - Satellite Control Building
 - Middle Ventilation Building
 - East Ventilation Building
 - Administration Building
 - EAST VENT SHAFT



A	TENDER ADDENDUM NO. 1	JWKN/ALCF JUN 13
-	TENDER DRAWING	JWKN/ALCF MAY 13
REV.	DESCRIPTION	DATE
01	ISSUED FOR PERMITS	13/05/13

Highways Department 路政署
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

PWP ITEM NO. 579 TH
工務計劃項目編號

CENTRAL - WAN CHAI BYPASS - TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

GENERAL LAYOUT

SHEET 1 OF 2

AECOM

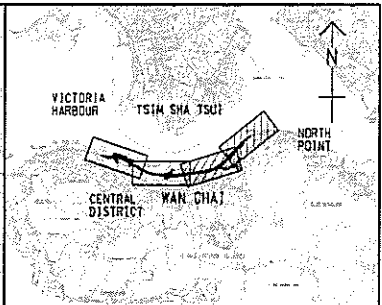
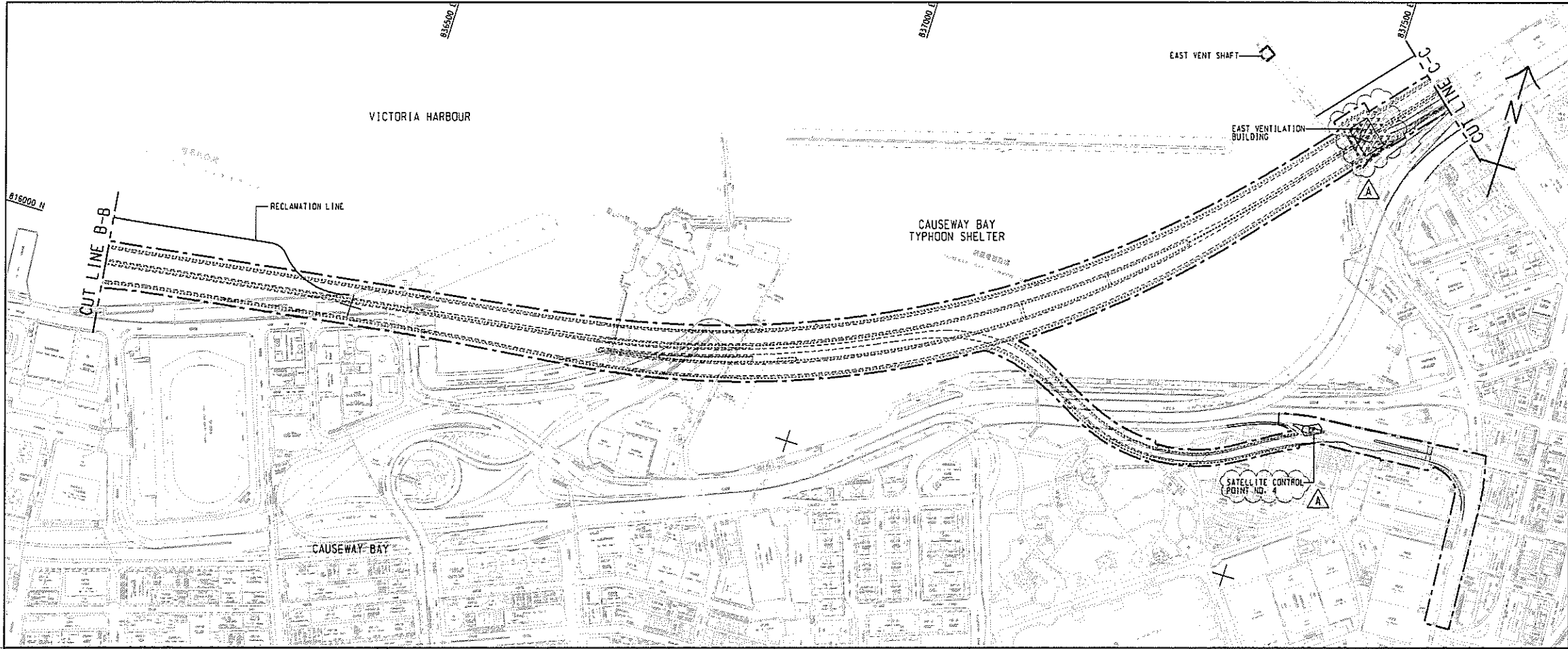
DRG. NO. 60095653/RW/1001A
圖紙編號

DESIGNED BY ALCF	CONTRACT NO. HW/2011/08	APPROVED BY CWN
DRAWN BY LHJ	STATUS REV.	

SCALE A1 1 : 2500
A3 1 : 5000
DIMENSIONS ARE IN METRES

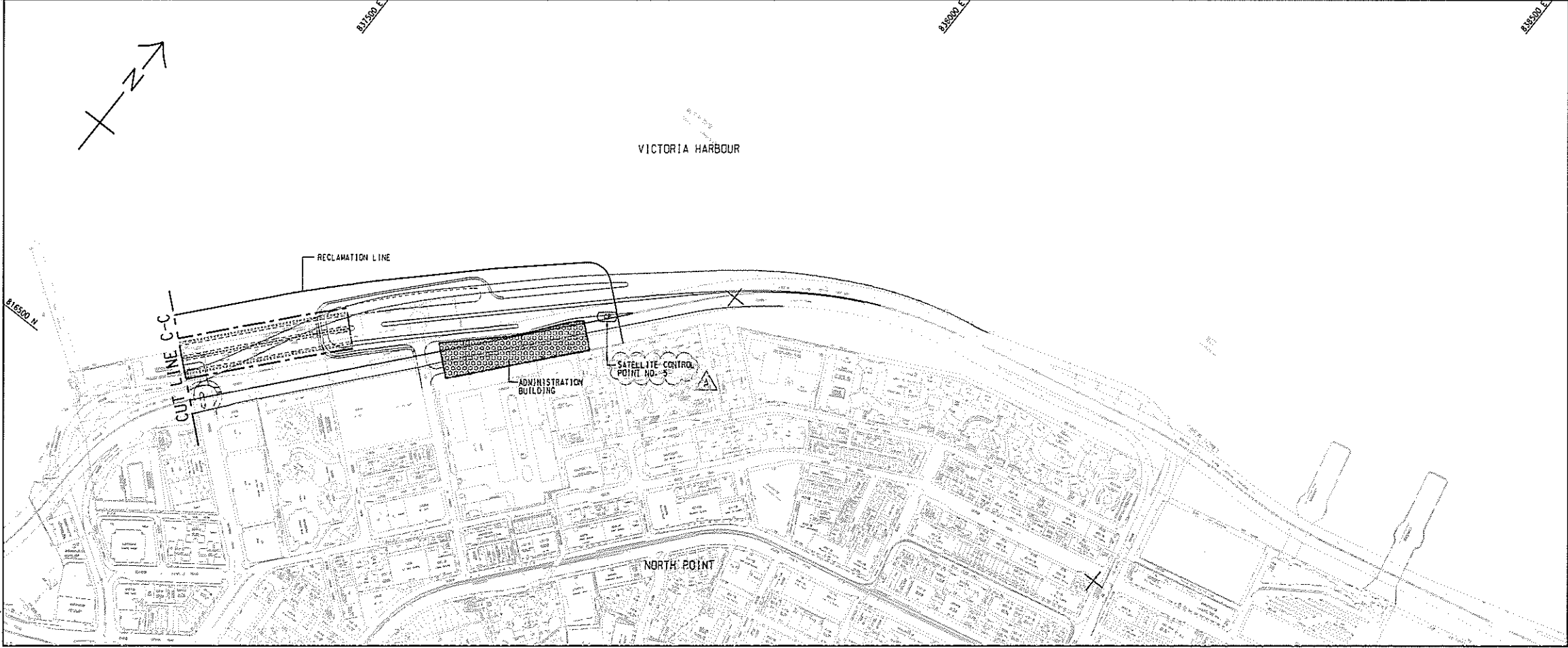
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2013-4-27
 1:1
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KEY PLAN
SCALE A1 : 100000
A3 : 200000

- NOTES:
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NOS. 60095653/RW/1001.
 2. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60095653/RW/1001.



A	TENDER ADDENDUM NO. 1	JWKN/ALCF JUN 13
-	TENDER DRAWING	JWKN/ALCF MAY 13

Highways Department 路政署
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

PWP ITEM NO. 579 TH
工務計劃項目編號

CENTRAL - WAN CHAI BYPASS - TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

GENERAL LAYOUT
SHEET 2 OF 2



DRG. NO. 60095653/RW/1002A
圖紙編號

DESIGNED BY ALCF	CONTRACT NO. HY/2011/08	APPROVED BY CNY
DRAWN BY ANM	STATUS REV	CNY
SCALE A1 : 5000 A3 : 10000		

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Figure 2
Layout Plan of the Key Visual Sensitive
Receivers

KEY FOR VISUAL SENSITIVE RECEIVERS

- C1 International Finance Centre
- C2 Hong Kong Station Development Phase 2
- C3 Exchange Square
- C4 Jardine House
- C5 Mandarin Hotel
- C6 Hong Kong Club
- C7 Ritz Carlton Hotel
- C8 AIA Tower
- C9 Hutchison House
- C10 Bank of America Tower
- C11 Far East Financial Centre
- C12 Admiralty Centre
- C13 United Centre
- C14 CITIC Tower
- C15 Fleet Arcade
- C16 Asian House
- C17 Chung Nam Building
- C18 Fleet House, Harcourt House
- C19 Telecom House, Hong Kong Arts Centre, Harbour View International House
- C20 Shui On Centre
- C21 Central Plaza
- C22 Grand Hyatt Hotel
- C23 Renaissance Harbour View Hotel
- C24 Hong Kong Convention and Exhibition Centre
- C25 Great Eagle Centre
- C26 Harbour Centre
- C27 China Resources Building
- C28 Sun Hung Kai Centre
- C29 AXA Centre
- C30 Sino Plaza
- C31 World Trade Centre
- C32 Excelsior Hotel
- C33 The Park Lane Hotel
- C34 Windsor House
- C35 19-31 Yee Wo Street
- C36 Citicorp Centre
- C37 Victoria Centre
- C38 Ocean Terminal
- C39 Star House
- C40 Peninsula Hotel
- C41 Sheraton Hotel
- C42 InterContinental Hotel
- C43 New World Centre and Hotel
- C44 Wing On Plaza
- C45 Shangri-La Hotel
- C46 Tsim Sha Tsui Centre
- C47 Emple Centre
- C48 Grand Stanford Harbour View Hotel
- C49 Nikko Hotel
- C50 Four Season Hotel
- C51 Harbour Plaza Metropolis
- C52 AIA Tower
- C53 Newton Hotel
- C54 Electric Centre
- C54A Sea View Estate

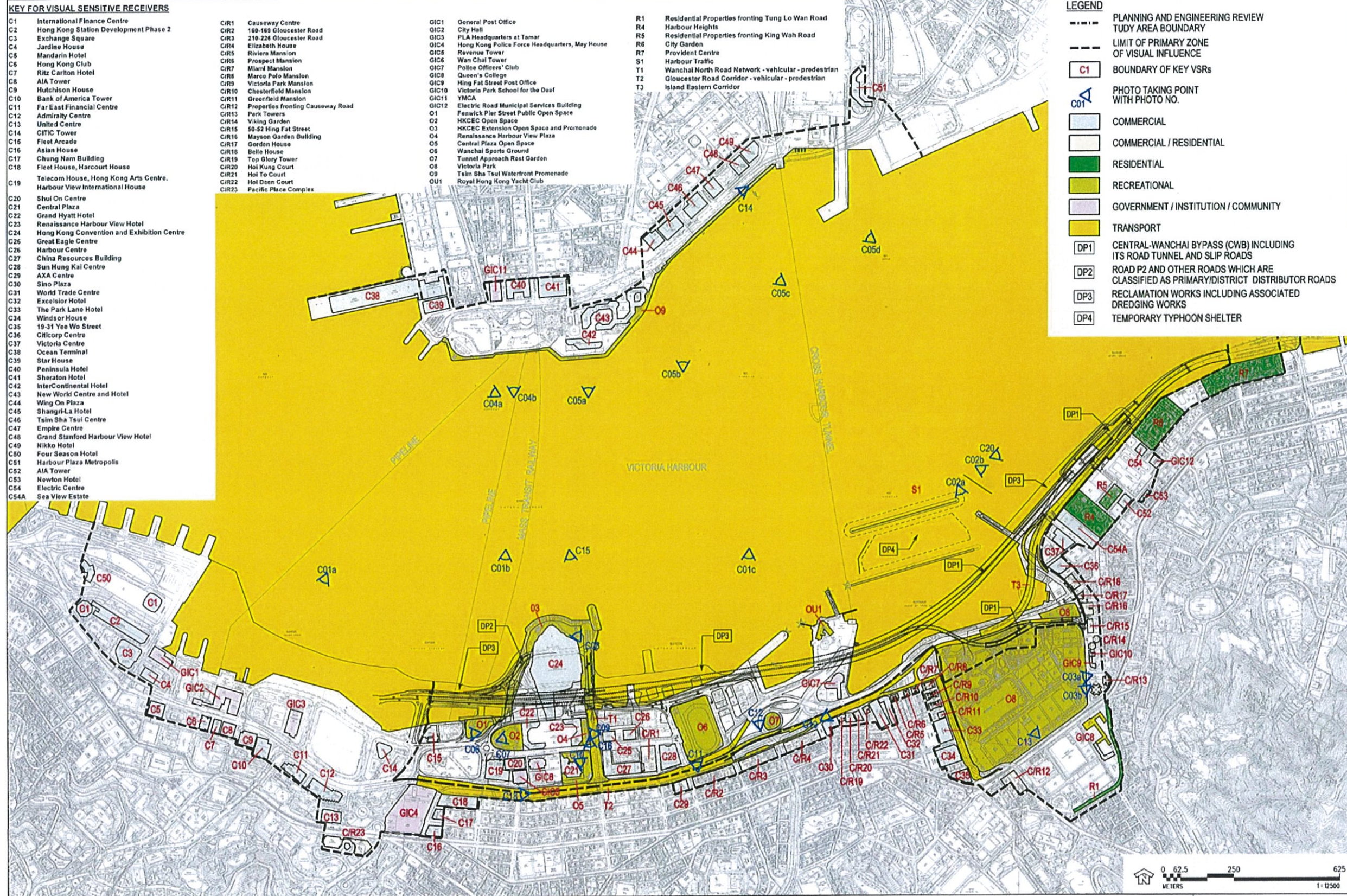
- C/R1 Causeway Centre
- C/R2 160-168 Gloucester Road
- C/R3 210-226 Gloucester Road
- C/R4 Elizabeth House
- C/R5 Riviera Mansion
- C/R6 Prospect Mansion
- C/R7 Miami Mansion
- C/R8 Marco Polo Mansion
- C/R9 Victoria Park Mansion
- C/R10 Chesterfield Mansion
- C/R11 Greenfield Mansion
- C/R12 Properties fronting Causeway Road
- C/R13 Park Towers
- C/R14 Viking Garden
- C/R15 50-52 Hing Fat Street
- C/R16 Mayson Garden Building
- C/R17 Gordon House
- C/R18 Belle House
- C/R19 Top Glory Tower
- C/R20 Hoi Kung Court
- C/R21 Hoi To Court
- C/R22 Hoi Den Court
- C/R23 Pacific Place Complex

- GIC1 General Post Office
- GIC2 City Hall
- GIC3 PLA Headquarters at Tamar
- GIC4 Hong Kong Police Force Headquarters, May House
- GIC5 Revenue Tower
- GIC6 Wan Chai Tower
- GIC7 Police Officers' Club
- GIC8 Queen's College
- GIC9 Hing Fat Street Post Office
- GIC10 Victoria Park School for the Deaf
- GIC11 YMCA
- GIC12 Electric Road Municipal Services Building
- O1 Fenwick Pier Street Public Open Space
- O2 HKCEC Open Space
- O3 HKCEC Extension Open Space and Promenade
- O4 Renaissance Harbour View Plaza
- O5 Central Plaza Open Space
- O6 Wanchai Sports Ground
- O7 Tunnel Approach Rest Garden
- O8 Victoria Park
- O9 Tsim Sha Tsui Waterfront Promenade
- OU1 Royal Hong Kong Yacht Club

- R1 Residential Properties fronting Tung Lo Wan Road
- R4 Harbour Heights
- R5 Residential Properties fronting King Wah Road
- R6 City Garden
- R7 Provident Centre
- S1 Harbour Traffic
- T1 Wanchai North Road Network - vehicular - pedestrian
- T2 Gloucester Road Corridor - vehicular - pedestrian
- T3 Island Eastern Corridor

LEGEND

- PLANNING AND ENGINEERING REVIEW STUDY AREA BOUNDARY
- LIMIT OF PRIMARY ZONE OF VISUAL INFLUENCE
- C1 BOUNDARY OF KEY VSRs
- CO1 PHOTO TAKING POINT WITH PHOTO NO.
- COMMERCIAL
- COMMERCIAL / RESIDENTIAL
- RESIDENTIAL
- RECREATIONAL
- GOVERNMENT / INSTITUTION / COMMUNITY
- TRANSPORT
- DP1 CENTRAL-WANCHAI BYPASS (CWB) INCLUDING ITS ROAD TUNNEL AND SLIP ROADS
- DP2 ROAD P2 AND OTHER ROADS WHICH ARE CLASSIFIED AS PRIMARY/DISTRICT DISTRIBUTOR ROADS
- DP3 RECLAMATION WORKS INCLUDING ASSOCIATED DREDGING WORKS
- DP4 TEMPORARY TYPHOON SHELTER



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WAN CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW
KEY VSRs AND PRIMARY ZONE OF VISUAL INFLUENCE DURING CONSTRUCTION

FIGURE 10.4

FILE : d:\wanchai\FIGURE 10-4.dwg