

Your Ref. :
Our Ref. : CWB/(HY/2011/08)/M45/150/08B030939

17 June 2020

Highways Department
Major Works Project Management Office
Major Work Office (2)
3/F., Ho Man Tin Government Offices,
88 Chung Hau Street,
Ho Man Tin, Kowloon

Attn.: Mr. Tony Cheung, SE4/CWB

Dear Sir,

Agreement No. CE5/95
Design and Construction of Central – Wan Chai Bypass and Island Eastern Corridor Link
Supplementary Agreement No. 3 – Design, Tender and Construction Phases

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

Environmental Permit No. EP-482/2013/C
As-built Drawings of Landscape and Visual Mitigation Measures

Pursuant to Condition 2.10 of Environmental Permit No. EP-482/2013/C, I enclose for your onward submission to EPD four hard copies and on electronic copy of the as-built drawings of the landscape and visual mitigation measures in the deposited Landscape Plan for HY/2011/08, together with a certification letter from ET and verification letter from IEC.

Two extra hard copies and one electronic copy of the as-built drawings are also enclosed for your retention.

Yours faithfully,
For and on behalf of
AECOM Asia Co. Ltd.



David Kwan
Principal Resident Engineer

Encl. (6 hard copies + 2 soft copies)

c.c. ET (Lam)	- Attn.: Mr. Raymond L.M. Dai] – w/o encl.
IEC (Environ)	- Attn.: Mr. David B.K. Yeung] – w/o encl.
CWB (HY/2019/18)] – w/o encl.
e.c. AECOM	- Attn.: Mr. Alex Li / Ms. Ivy Chung	

DK/EW/DI/al



Lam Geotechnics Limited

Ground Investigation & Instrumentation Professionals

Ref : G1938/CS/L119/AECOM
Date : 16 Jun 2020

Highways Department
Major Works Project Management Office
Major Works Office (2)
3rd Floor
Ho Man Tin Government Offices,
88 Chung Hau Street,
Ho Man Tin,
Kowloon

By Post & Fax: 2714 5289

華益土力有限公司

Attn: Mr. Tony Cheung (Sr Engr 4/Central Wanchai Bypass)

Dear Mr. Cheung,

Contract No. HY/2019/18
Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 4)
As-Built Drawing of Landscape and Visual Mitigation Measures for Contract No. HY/2011/08 (under Condition 2.10 of Environmental Permit No. EP-482/2013/C)

Referring to the captioned submission for Contract No. HY/2011/08 received through RSS's email on 12 June 2020, 9:43 a.m., we have reviewed the submitted details and hereby certified this submission in accordance with Condition 2.10 of EP-482/2013/C.

We understand that the as-built drawings of the landscape and visual mitigation measures for other Contracts including HK/2009/02, HK/2012/08, HY/2009/19 and HY/2010/08 will be submitted once available. We shall certify the submission in accordance with Condition 2.10 of EP-482/2013/C accordingly.

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

Yours faithfully,
For and On Behalf of
Lam Geotechnics Limited

Raymond Dai
Environmental Team Leader

c.c.	AECOM CWB	- Mr. David Kwan	(By Fax: 3912 3010)
	AECOM WDII	- Mr. S.K Lo	(By Fax: 2587 1877)
	Ramboll	- Mr. David Yeung	(By Fax: 3465 2899)





Ref.: AACWBIECEM00_0_12224L.20

16 June 2020

By Post and Fax (2691 2649)

AECOM Asia Company Limited
8/F., Grand Central Plaza, Tower 2
138 Shatin Rural Committee Road, Shatin
New Territories, Hong Kong

Attention: Mr. Conrad Ng

Dear Sir,

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

**As-built Drawings of Landscape and Visual Mitigation Measures under
Condition 2.10 of EP-482/2013/C**

Reference is made to the receipt of captioned submission from RSS via e-mail dated 12 June 2020, and certified by the ET Leader (ET's ref.: "G1938/CS/L119/AECOM" dated 16 June 2020).

We are pleased to inform that we have no adverse comments on the captioned submission. We write to verify the captioned submission in accordance with Condition 2.10 of EP-482/2013/C.

Thank you very much for your kind attention and please do not hesitate to contact the undersigned should you have any queries.

Yours faithfully,
For and on behalf of
Ramboll Hong Kong Limited

David Yeung
Independent Environmental Checker

c.c.


HyD	Attn.: Mr. Tony Cheung	(By Fax: 2714 5289)
AECOM	Attn.: Mr. David Kwan	(By Fax: 3912 3010)
Lam	Attn.: Mr. Raymond Dai	(By Fax: 2882 3331)

Q:\Projects\AACWBIECEM00\Corr\AACWBIECEM00_0_12224L.20.doc

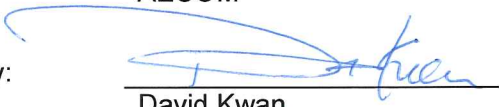
Central – Wan Chai Bypass
and Island Eastern Corridor Link

**As-built Drawings of the Landscape
and Visual Mitigation Measures for
Contract HY/2011/08**

(under Condition 2.10 of EP-482/2013/C)

Prepared by: 
Eric Wong / Donald Ip Date: 16 JUNE 2020

Position: SRE (S&E) / RE (Env)
AECOM

Endorsed by: 
David Kwan Date: 19 JUNE 2020

Position: Principal Resident Engineer
AECOM

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As-built Drawings of the Landscape and Visual Mitigation Measures

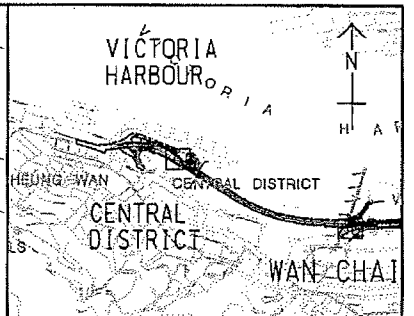
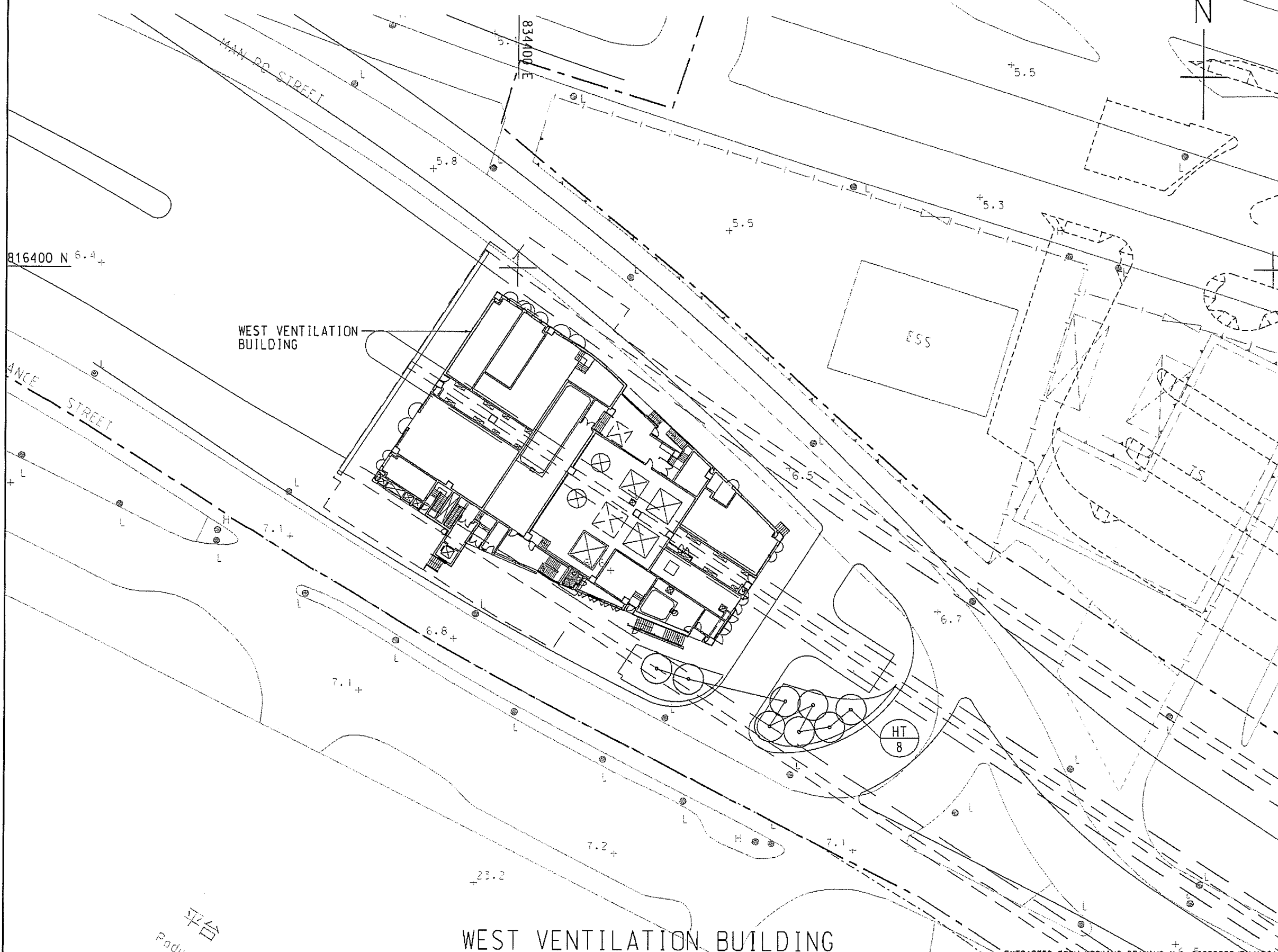
(CONDITION 2.10 OF OPERATION ENVIRONMENTAL PERMIT, EP-482/2013/C)

- 1. As-built drawings of the landscape and visual mitigation measures for HY/2011/08**
 - 1.1 The submission includes the as-built drawings of the landscape and visual mitigation measures for contract HY/2011/08, in which the landscape and visual mitigation measures were implemented and included in the Final Landscape Plan (Rev.5) submitted under Condition 2.14 of the FEP-11/364/2009/E and was approved by EPD on 7 May 2020.
- 2 As-built drawings of the landscape and visual mitigation measures for other CWB contracts**
 - 2.1 As for other CWB contracts including HY/2009/19 and HY/2010/08, the landscape works are underway and the as-built drawings of the landscape and visual mitigation measures for contracts HY/2009/19 and HY/2010/08 will be submitted once available.
- 3 As-built drawings of the landscape and visual mitigation measures For WDII contracts**
 - 3.1 For WDII contracts including HK/2009/02 and HK/2012/08, the shrubs planting works has commenced and is underway. The tree planting plan is being further refined with LCSD and works will be carried once the completion of the tree planting plan review. The as-built drawings of the landscape and visual mitigation measures for contracts HK/2009/02 and HK/2012/08 will be submitted once available.
- 4 Long Term Landscape Monitoring**
 - 4.1 Under the updated EM&A Manual (Dec 2010) table 6.1, monitoring of the long-term management of the planting works shall be carried out in the period up to 5 years after completion of the construction works. The monitoring report shall be compiled by ET or Maintenance Agency and counter-sign by Management Agency or IEC.

As-built drawings of the Tree Planting for Contract HY/2011/08

TREE PLANTING

CODE	BOTANICAL NAME	BOTANICAL NAME	SPECIFICATION (mm) HEIGHT(H) x SPREAD(S)	SPACING (mm)	NO./m ²	QUANTITY	COMMENT
HT	HIBISCUS TILIACEUS	黃槿	STANDARD	AS SHOWN	-	8	



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 FRABLE 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 ADJECENT 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**
THE 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 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. 3.64-WATERING.

LEGEND:

---	SITE BOUNDARY
▭	RECTANGLE TREE PLANTING
○	PROPOSED TREE PLANTING
○ HT 8	PLANT CODE QUANTITY

Rev.	Date	Description	Drawn	Prepared	Checked
-	20/06/16	FOR CONSTRUCTION	SCL	KT	YN

AECOM

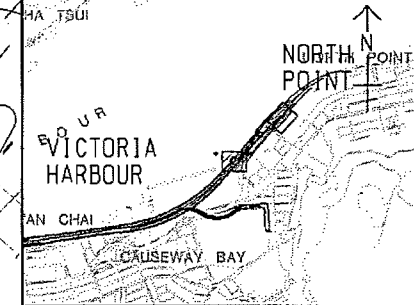
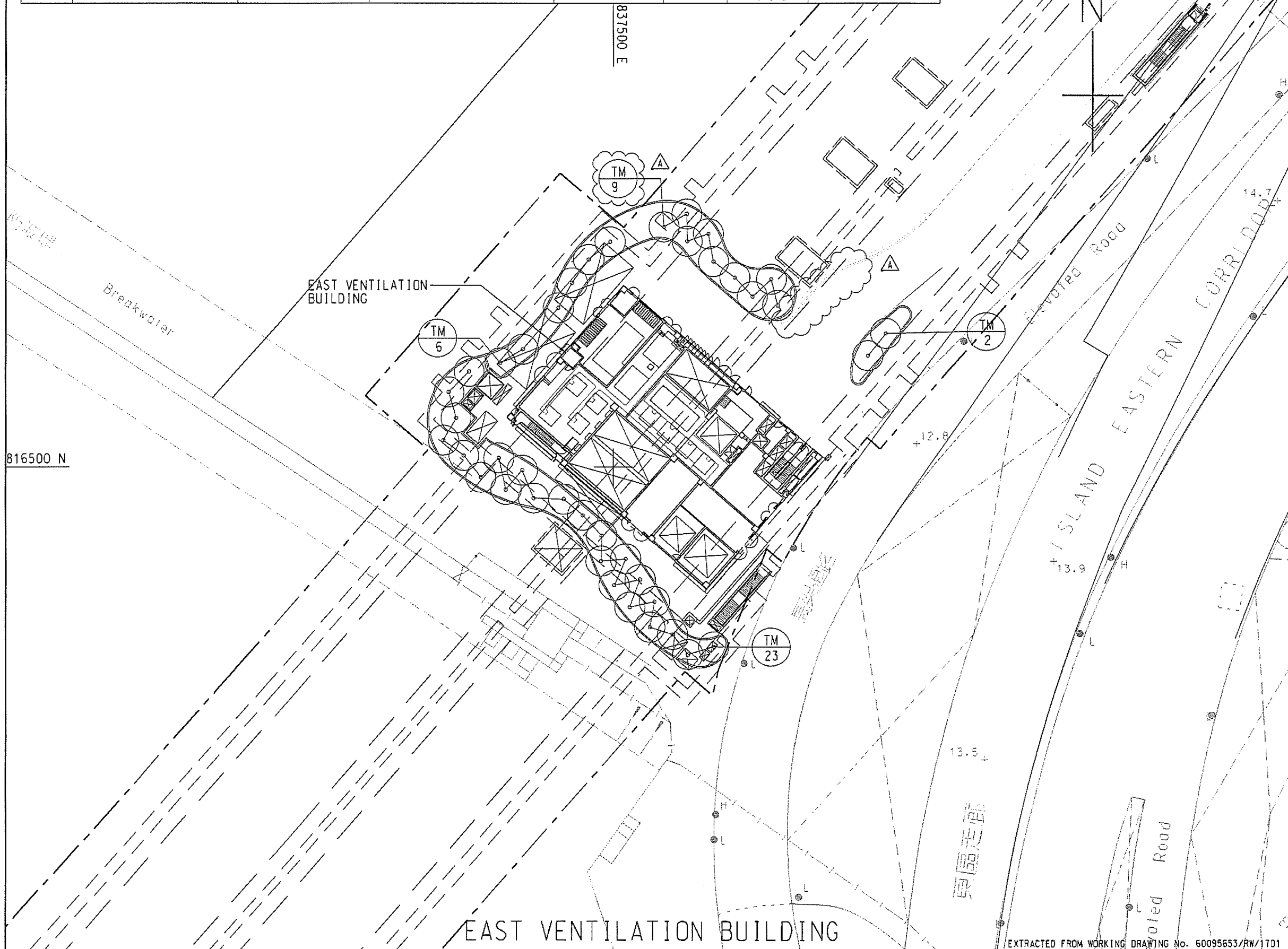
CENTRAL - WAN CHAI BYPASS -
CONTRACT NO. HY/2011/08
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND
WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

TITLE:
TREE PLANTING PLAN
AT WEST VENTILATION BUILDINGS

SKETCH NO.: 60095653/RW/SK0534 SCALE
1:2500(AS1)

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 AS 1 : 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 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 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 COMPLETE 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**
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- 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 150-DIAMETER. 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 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 7	PLANT CODE QUANTITY

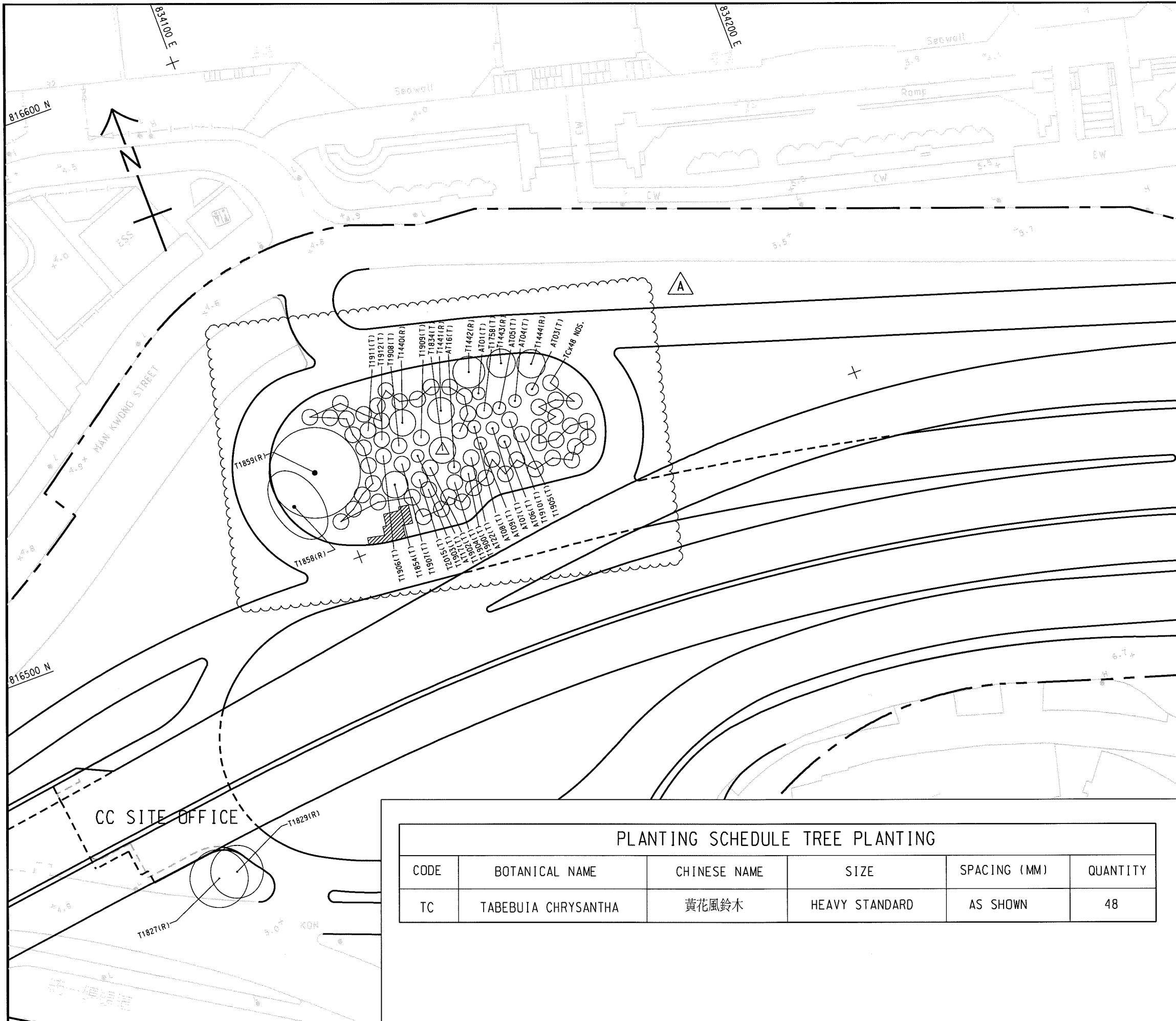
Rev.	Date	Description	Drawn	Prepared	Checked
A	27/04/17	FOR CONSTRUCTION	SCL	YN	EC
-	19/08/16	FOR CONSTRUCTION	SCL	YN	EC

AECOM

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

TITLE: TREE PLANTING PLAN
AT EAST VENTILATION BUILDING

EXTRACTED FROM WORKING DRAWING NO. 60095653/RW/1701 SKETCH NO. 60095653/RW/SK0639A SCALE 1:5000



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

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

PLANTING SCHEDULE TREE PLANTING					
CODE	BOTANICAL NAME	CHINESE NAME	SIZE	SPACING (MM)	QUANTITY
TC	TABEBUIA CHRYSANTHA	黃花風鈴木	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

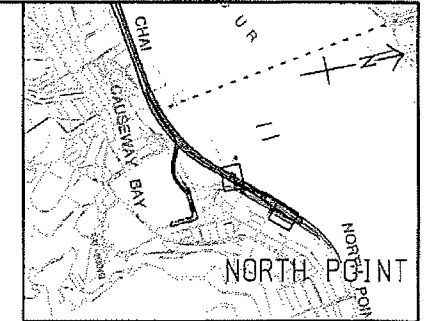
SKETCH NO. 60095653/RW/SK0567B SCALE 1:1000(A4)

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	9D	PLANT ALL SPECIES IN A STAGGERED PATTERN



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 DESIGN, 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.
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ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
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- SOIL MIX AND SOIL CONDITIONER
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- MULCHING
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- PLANT NAME
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- 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 CHIMNEY. 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 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.

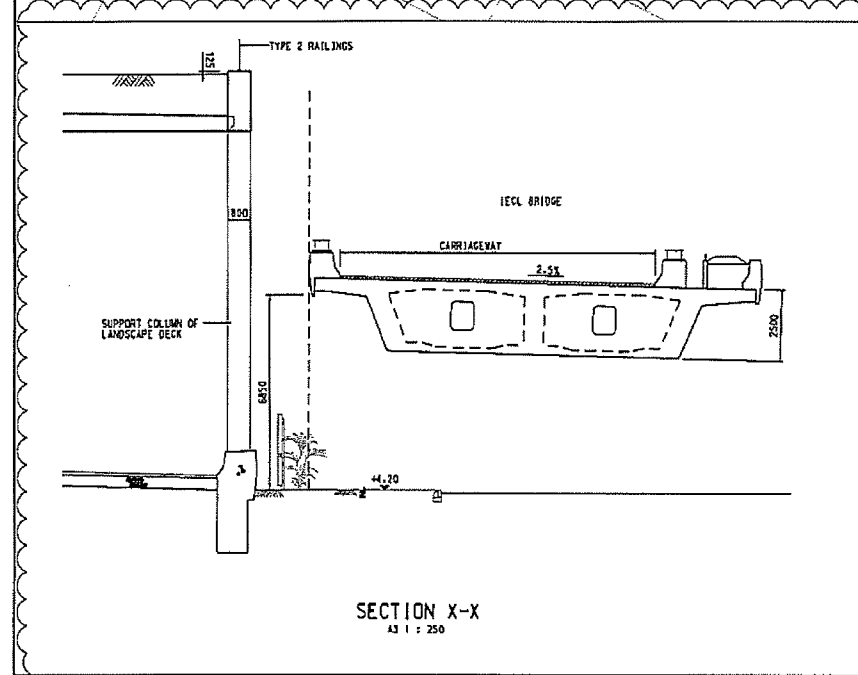
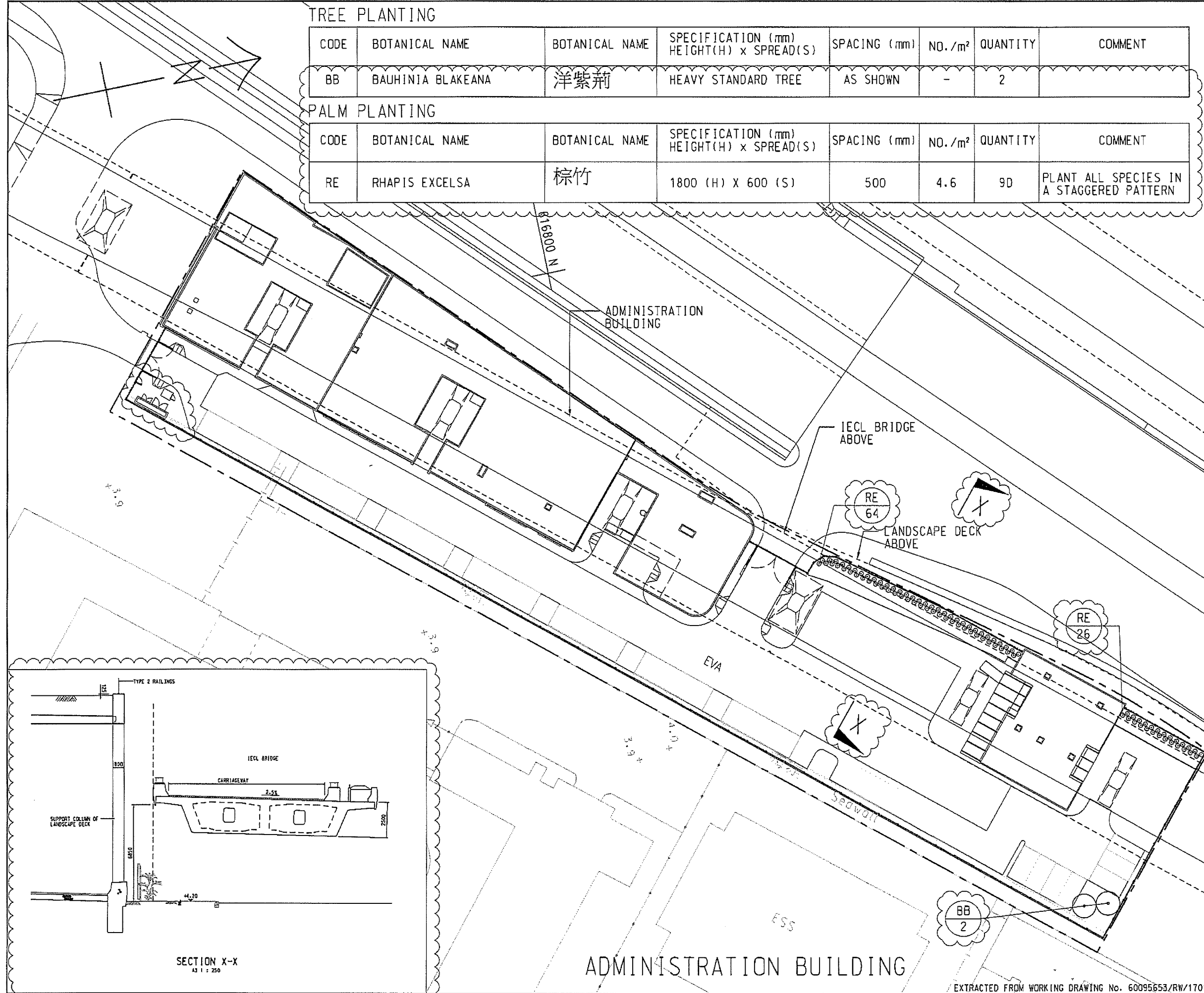
- LEGEND:
- SITE BOUNDARY
 - PROPOSED TREE PLANTING
 - BB/2 PLANT CODE QUANTITY

Rev.	Date	Description	Drawn	Prepared	Checked
-	18/2/19	FOR CONSTRUCTION	SCL	MXMC	YN

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 ADMINISTRATION BUILDING

SKETCH NO. 60095653/RW/SK1530 SCALE 1:1500(A3)



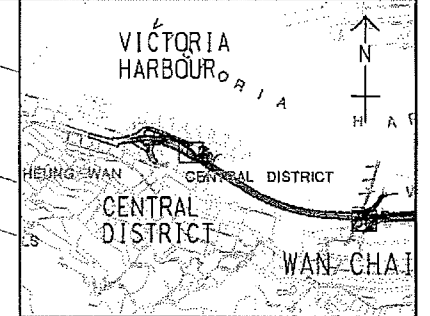
As-built drawings of the Shrub Planting for Contract HY/2011/08

SHRUB PLANTING

CODE	BOTANICAL NAME	BOTANICAL NAME	SPECIFICATION (mm) HEIGHT(H) x SPREAD(S)	SPACING (mm)	NO./m2	QUANTITY	COMMENT
Drq	OURANTA 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	薛荔	3 SHOOTS PER PLANT. EACH SHOOT 1000MM LONG	200	12.54	80	PLANT ALL SPECIES IN AN ALTERNATE PATTERN ALONG THE WALL
Pah	PARTHENOCISSUS HIMALAYANA	爬牆虎		200	12.54	80	
Loj	LONICERA JAPONICA	金銀花		200	12.54	80	



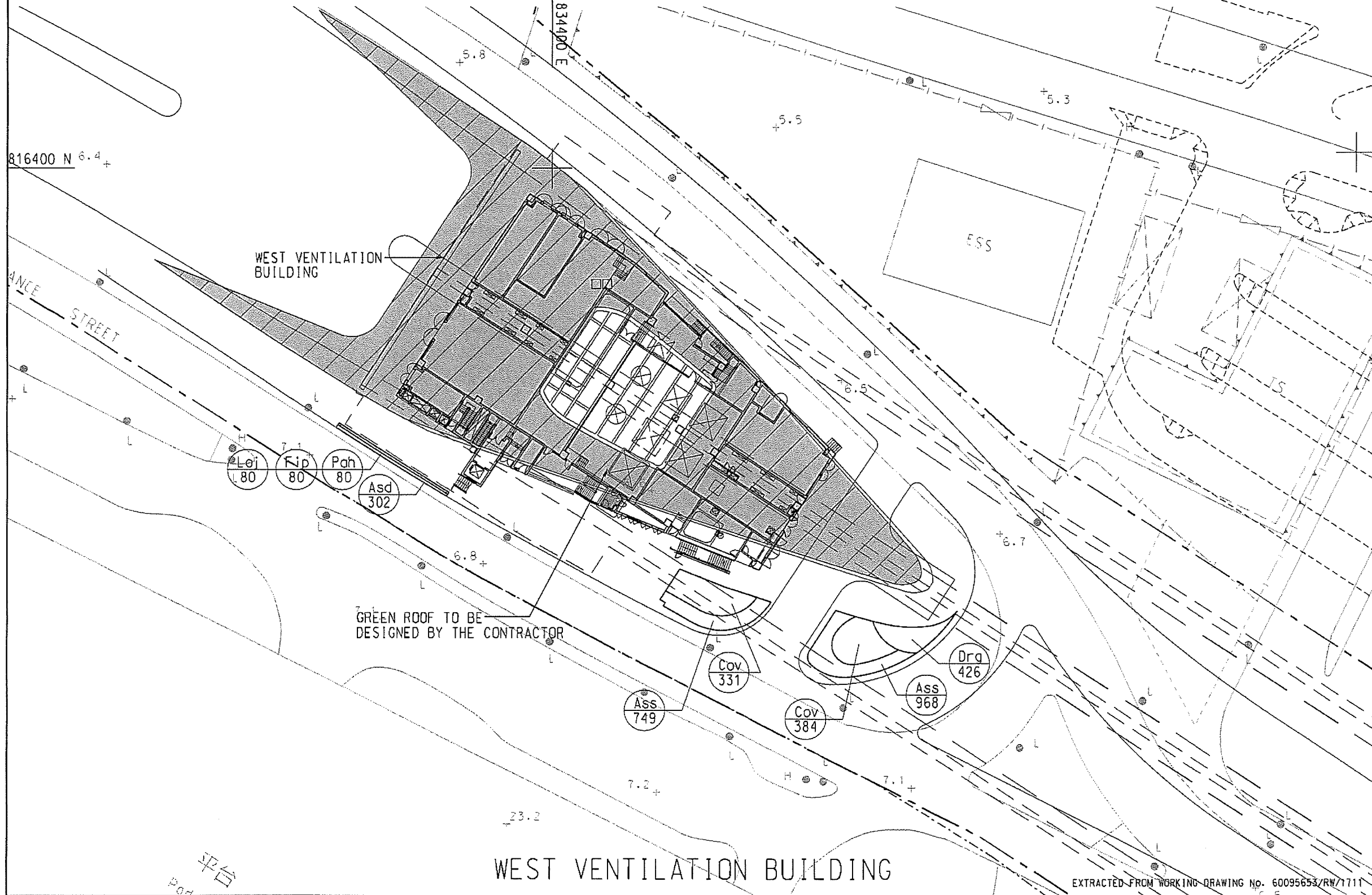
KEY PLAN
SCALE A3 : 50000

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
- (T) QUANTITY
- ▨ GREEN ROOF TO BE DESIGNED BY THE CONTRACTOR



Date	Description	Drawn	Prepared	Checked
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AECOM

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

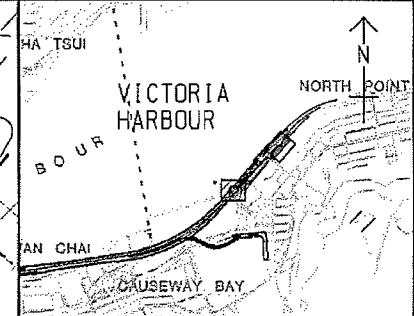
TITLE:
PLAN FOR SHRUB PLANTING
AT WEST VENTILATION BUILDINGS

EXTRACTED FROM WORKING DRAWING No. 60095653/RW/1711

SKETCH NO. 60095653/RW/SK0535 SCALE 1:320(1:3)

SHRUB PLANTING

CODE	BOTANICAL NAME	BOTANICAL NAME	SPECIFICATION (mm) HEIGHT(H) x SPREAD(S)	SPACING (mm)	NO./m ²	QUANTITY	COMMENT
Drg	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	



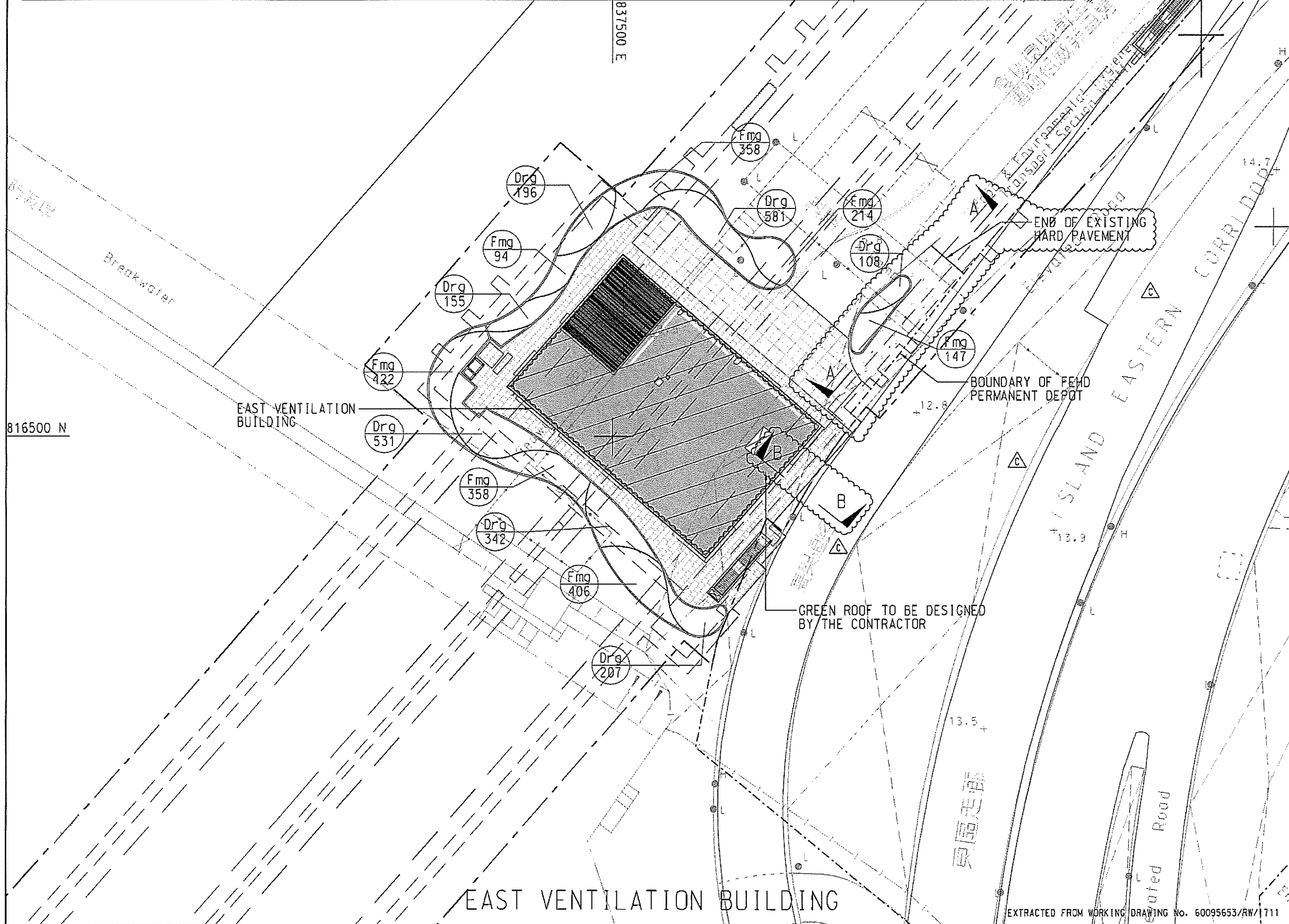
KEY PLAN
SCALE A3 : 50000

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/SK1202.

LEGEND:

- SITE BOUNDARY
- PROPOSED TREE PLANTING
- FB PLANT CODE
- T 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	14/12/17	FOR CONSTRUCTION	SCL	CMC	TL
A	27/04/17	FOR CONSTRUCTION	SCL	YN	EC
-	21/09/16	FOR CONSTRUCTION	SCL	YN	EC

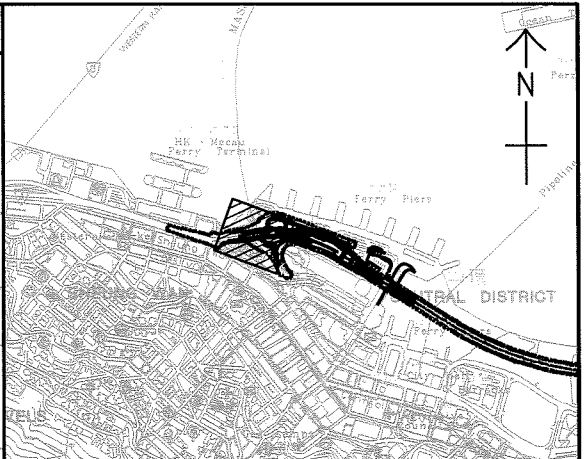
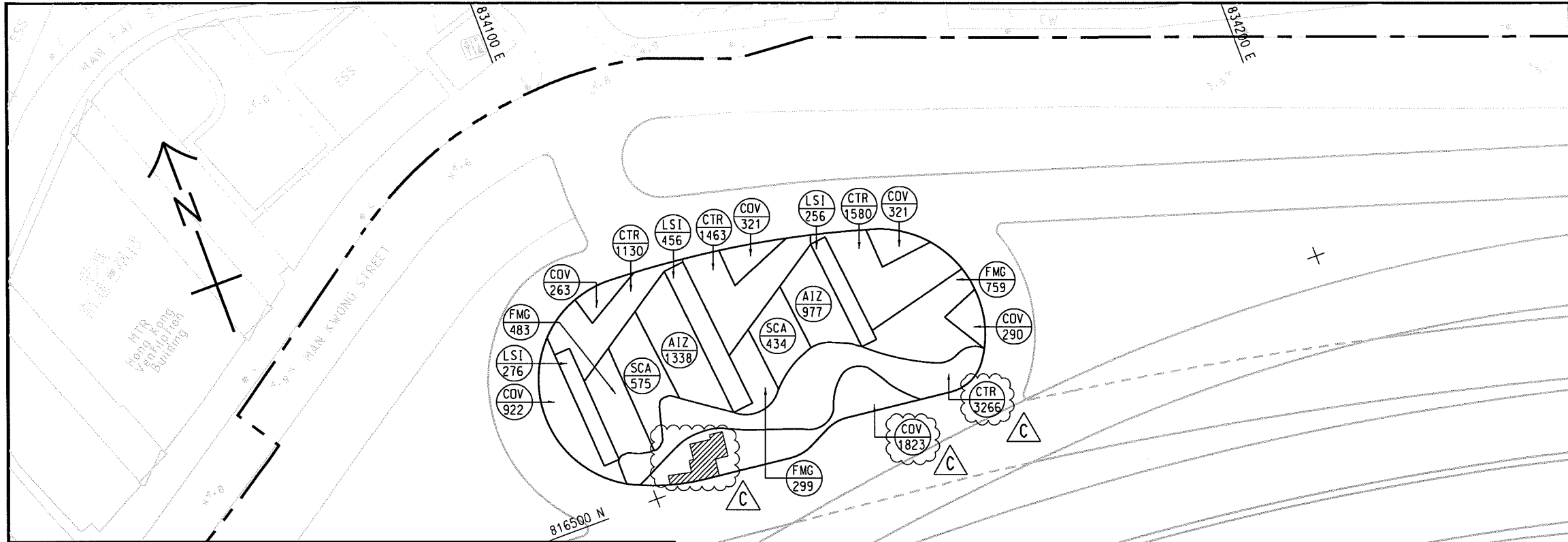
AECOM

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

EXTRACTED FROM WORKING DRAWING No. 60095653/RW/1711

SKETCH NO. 60095653/RW/SK0640C SCALE 1:2500(1:25)



KEY PLAN
SCALE A1 1 : 20000
A3 1 : 40000

LEGEND:

- SITE BOUNDARY
- (AIZ 977) SHRUB CODE QUANTITY
- [Hatched Area] SATELLITE CONTROL POINT 2 WITH HARD PAVEMENT AREA

GENERAL NOTES FOR LANDSCAPE WORKS:

- 1. 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 SUPERVISING OFFICER IMMEDIATELY FOR ANY DISCREPANCY BETWEEN THE ENGINEERING AND LANDSCAPE DRAWINGS.
- 2. DRAWING DIMENSIONS**
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
- 3. EXISTING TREES/VEGETATION**
THE CONTRACTOR SHALL PROTECT ALL TREES TO BE RETAINED ON SITE AS STIPULATED IN G.S. SECTION 26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTATING EXISTING/RETAINED VEGETATION AFFECTED BY THE CONSTRUCTION WORKS.
- 4. TREE FELLING**
NO TREES SHALL BE FELLED OR REMOVED WITHOUT THE DLO APPROVAL.
- 5. GROUND PREPARATION WORKS**
GROUND PREPARATION WORKS SHALL BE CARRIED OUT TO ALL AREAS (EXCEPT SLOPE AREA) TO BE PLANTED AS SPECIFIED.
- 6. 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.
- 7. MULCHING**
TREE PLANTING AND SHRUB AREAS SHALL BE MULCHED TO A DEPTH OF 100mm IN LOW LEVEL OF MULCH SHALL BE 25mm BEHIND CURB AND FINISHED SURFACES, AND COMPLY WITH G.S. CLAUSE 3.32-MULCH.
- 8. PLANT NAME**
BOTANICAL NAME SHALL TAKE PRECEDENCE TO ENGLISH AND CHINESE NAME.
- 9. 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.
- 10. 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.
- 11. 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.
- 12. DRAINAGE**
ALL PLANTER DRAINAGE DETAILS AND WEEPHOLES DETAILS SHOULD REFER TO ENGINEER DRAWING.
- 13. 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 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 OUTLET. NO TREES SHALL BE PLANTED WITHIN 2m OF A ROAD KERB OR ENGINEERING STRUCTURE.
- 14. WATERING**
THE CONTRACTOR SHALL PROVIDE ADEQUATE WATERING TO ALL PLANTED AREAS AS SPECIFIED IN G.S. 3.84-WATERING.

PLANTING SCHEDULE

CODE	BOTANICAL NAME	CHINESE NAME	SPECIFICATION(mm) HEIGHT(H)xSPREAD	SPACING (mm)	NO./m ²	QUANTITY	COMMENT
SHRUB PLANTING							
AIZ	ALPINIA ZERUMET'VARIEGATA'	花葉山薑	400(H)x400(S)	300	12.54	2351	PLANT ALL SPECIES IN A STAGGERED PATTERN
COV	CODIAEUM VARIEGATUM	洒金榕	400(H)x400(S)	300	12.54	3940	
CTR	CORDYLINA TERMINALIS'RUBRA'	朱蕉	500(H)x400(S)	300	12.54	7439	
FMG	FICUS MICROCARPA'GOLDEN LEAF'	黃榕	500(H)x500(S)	400	7.25	1541	
LSI	LIGUSTRUM ISNENSE	山指甲	500(H)x500(S)	400	7.25	988	
SCA	SCHAEFFLERA ARBORICOLA'VARIEGATA'	花葉八葉	500(H)x500(S)	400	7.25	1009	

Rev.	Date	Description	Draw	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	MCMX	RY
A	10/11/16	FOR CONSTRUCTION	SYW	HYN	EY
-	15/06/16	FOR APPROVAL	SYW	MSC	EY



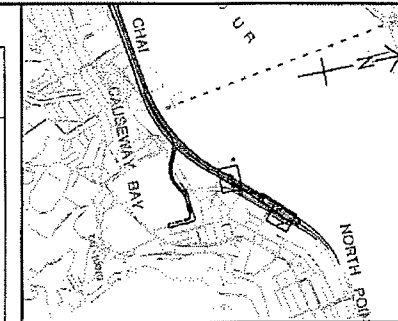
CENTRAL - WAN CHAI BYPASS AND IEC LINK
CONTRACT NO. HY/2011/08
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

TITLE:
SHRUB PLANTING PLAN

SKETCH NO. 60095653/RW/SK0551B SCALE 1:1000(A4)

SHRUB PLANTING

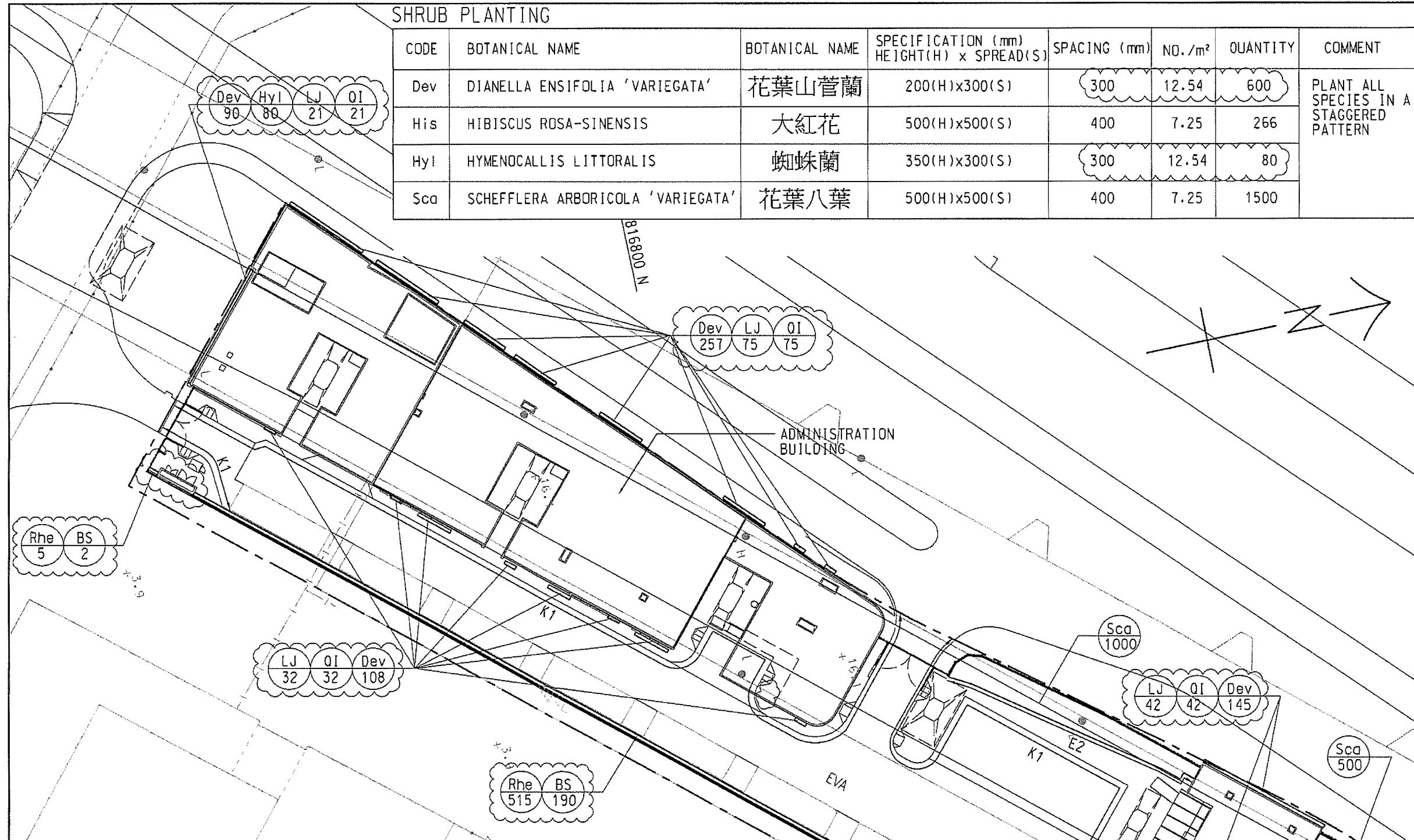
CODE	BOTANICAL NAME	BOTANICAL NAME	SPECIFICATION (mm) HEIGHT(H) x SPREAD(S)	SPACING (mm)	NO./m ²	QUANTITY	COMMENT
Dev	DIANELLA ENSIFOLIA 'VARIEGATA'	花葉山菅蘭	200(H)x300(S)	300	12.54	600	PLANT ALL SPECIES IN A STAGGERED PATTERN
His	HIBISCUS ROSA-SINENSIS	大紅花	500(H)x500(S)	400	7.25	266	
Hyl	HYMENOCALLIS LITTORALIS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



KEY PLAN
SCALE A3 : 50000

- 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	
OI	OUISOUALIS INDICA	使君子	1000mm LONG	900	-	170	

12/03/15	FOR CONSTRUCTION	SCL	MCNDX	YN
Date	Description	Drawn	Prepared	Checked

Rev. **AECOM**

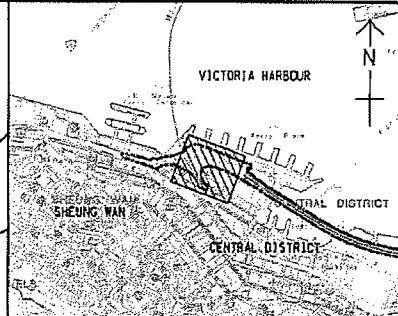
CENTRAL - WAN CHAI BYPASS -
CONTRACT NO. HY2011/08
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND
WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

TITLE: **PLAN FOR SHRUB PLANTING
AT ADMINISTRATION BUILDING**

SKETCH NO. 60095653/RW/SK1531 SCALE 1:500(1:50)

SHRUB PLANTING SCHEDULE

CODE	BOTANICAL NAME	CHINESE NAME	SPECIFICATION (mm) HEIGHT (H) X SPREAD (S)	SPACING (mm)	QUANTITY	REMARKS	COMMENT
SHRUB PLANTING							
ALZ	ALPHIA ZERUMBET 'VARIEGATA'	花葉山躑躅	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	SCHOFFLERA ARBORICOLA 'VARIEGATA'	花葉八葉	500 (H) X 500 (S)	400	2710		



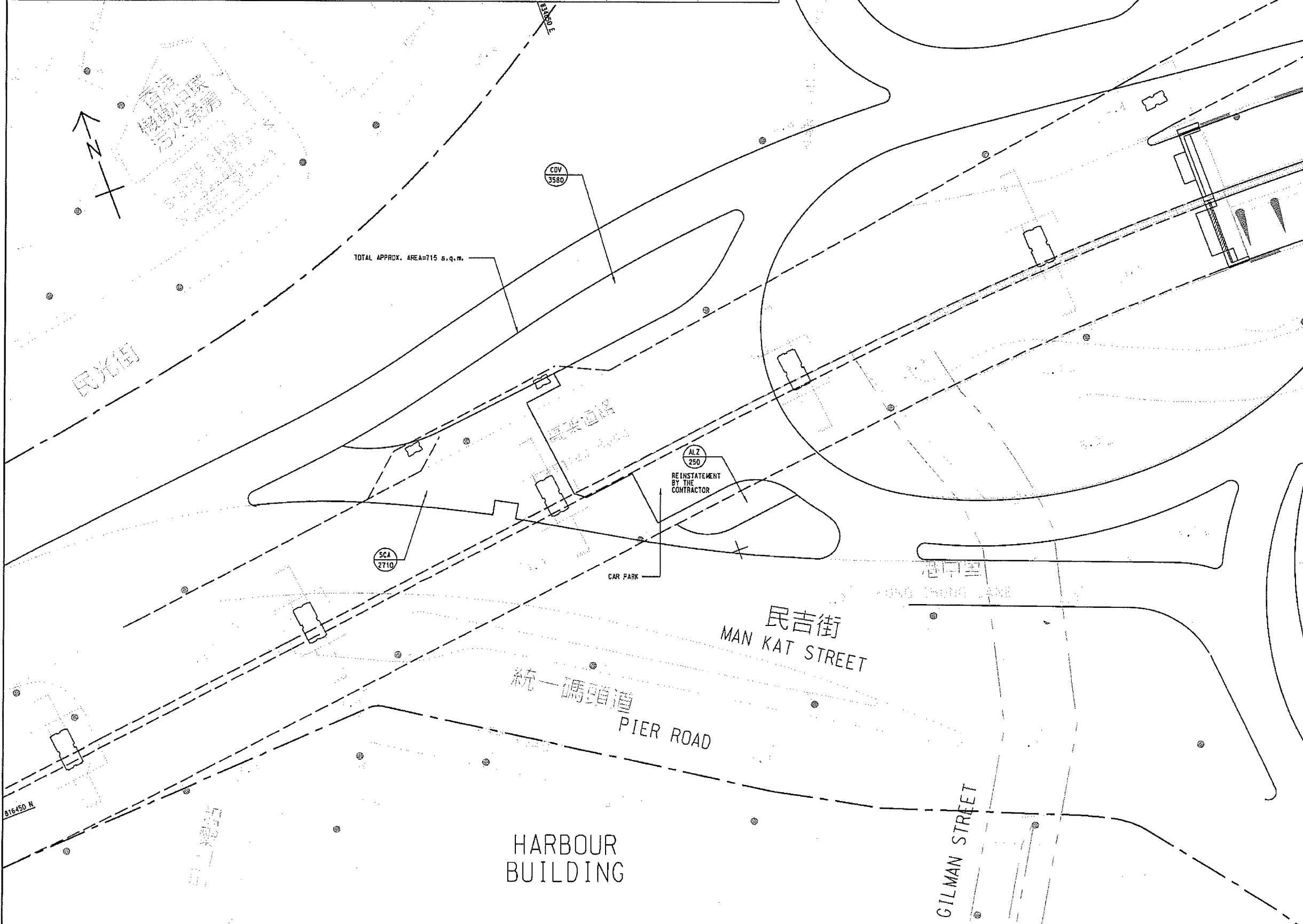
KEY PLAN
SCALE A1 : 20000
A3 : 40000

NOTE:

- 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



17/07/19	FOR INFORMATION	KYH	CWC	YN	
Rev.	Date	Description	Drawn	Prepared	Checked

AECOM

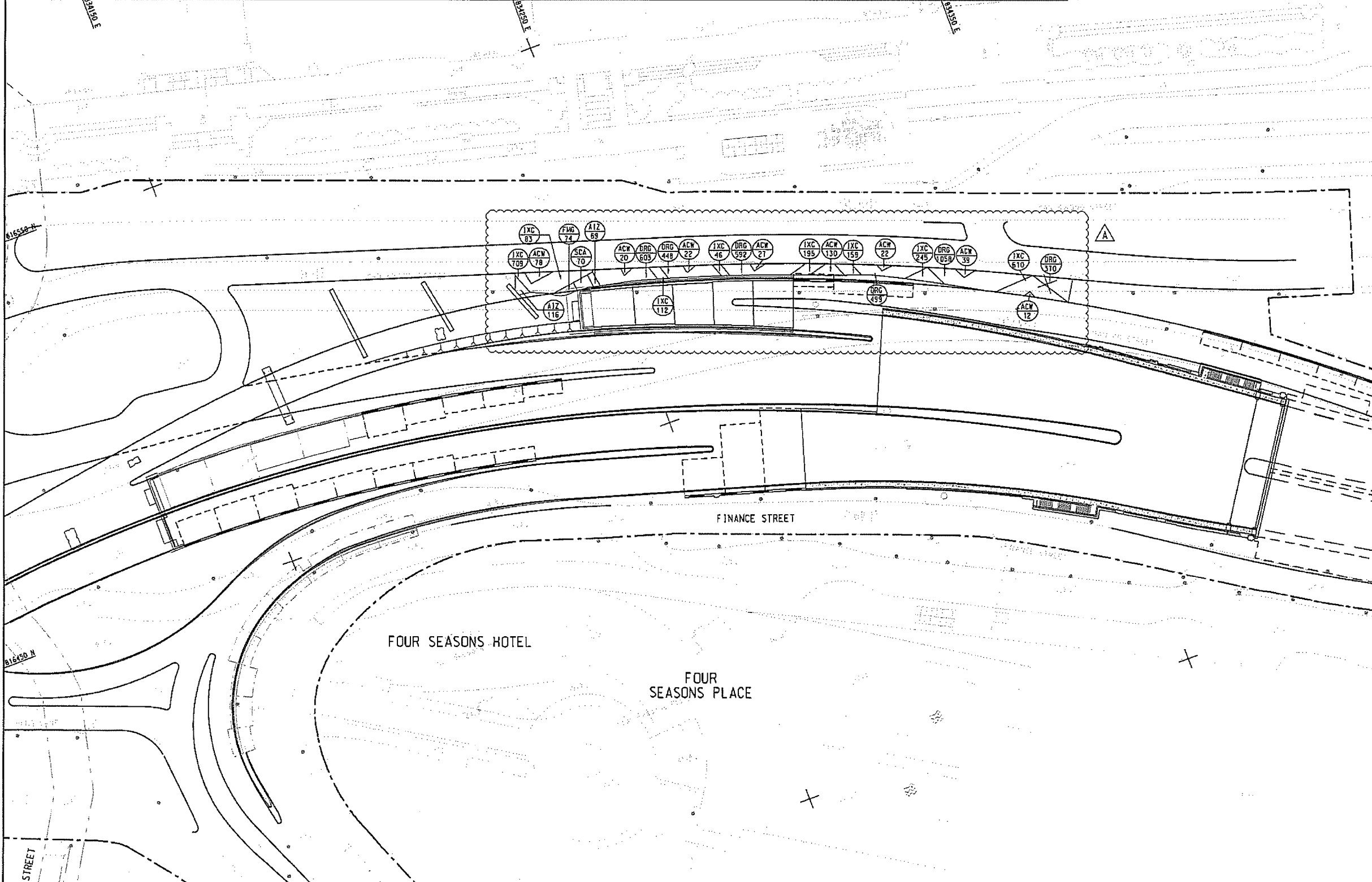
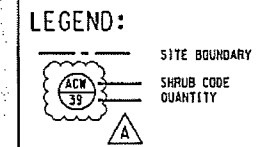
CENTRAL - WAN CHAI BYPASS -
CONTRACT NO. HY201189
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND
WORKS ASSOCIATED WITH TUNNEL COMMISSIONING
TITLE:
SHRUB PLANTING PLAN OF PLANTER
NEXT TO MAN KAT STREET

SKETCH NO.	60095653/RW/SK1650	SCALE	1:500(1:5)
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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'	花葉深山薑	400(H)x400(S)	300	185	
DRG	DURANTA REPENS 'GOLDEN'	金蓮翹	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	
SCA	SCHEFFLERA 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 0.5m COMPACTED DEPTH OF SOIL MIX.



A	21/03/19	FOR CONSTRUCTION	KYH	CWC	NC
-	20/03/19	FOR CONSTRUCTION	KYH	MCMX	RY
Rev.	Date	Description	Drawn	Prepared	Checked

AECOM

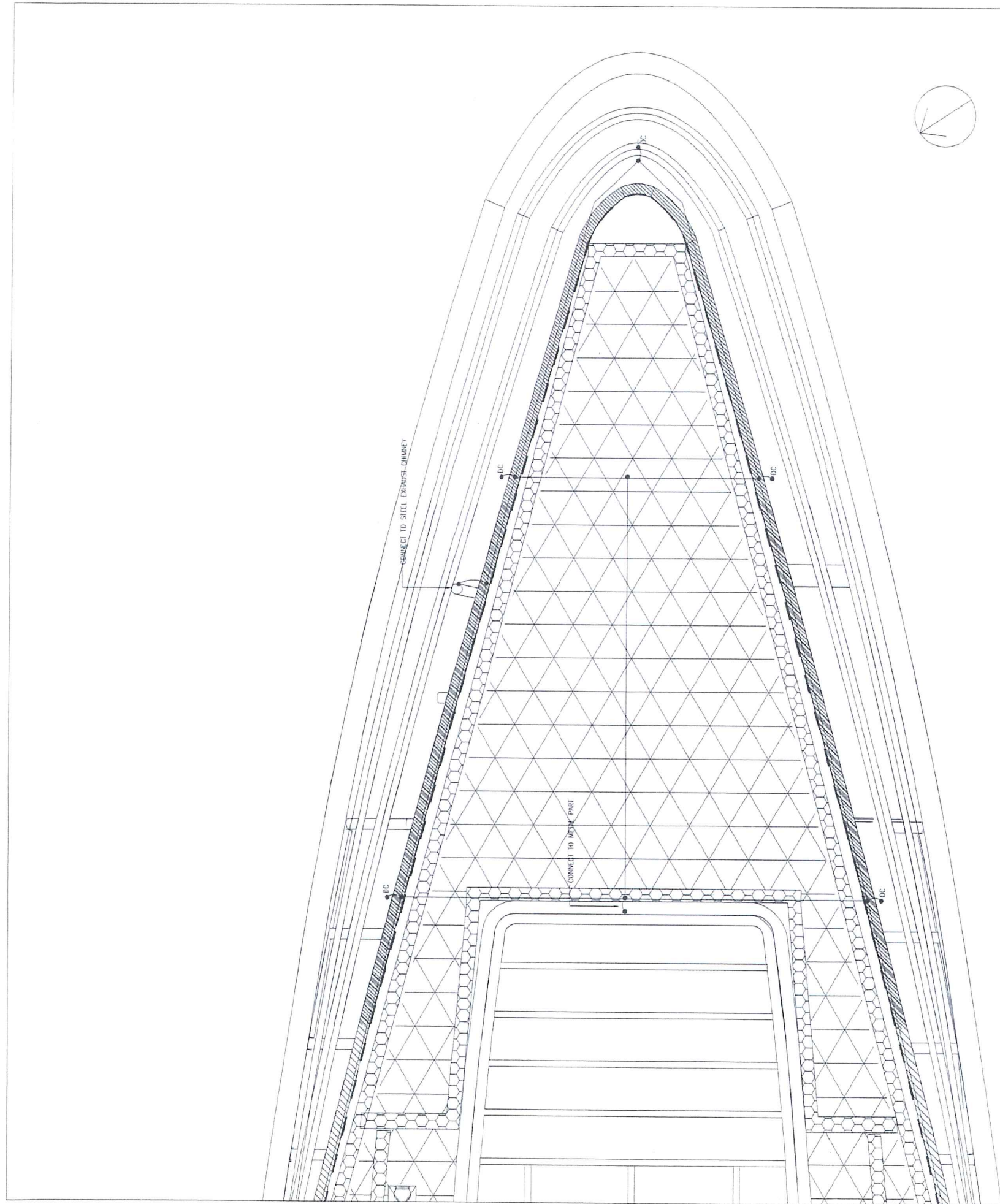
CENTRAL - WAN CHAI BYPASS -
CONTRACT NO. HY2011008
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND
WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

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

SKETCH NO.	60095653/RW/SK1300A	SCALE	1:1000(1:5)
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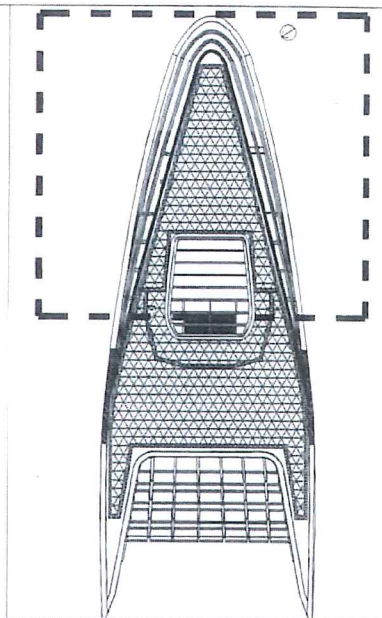
As-built drawings of the Hard Landscape for Contract HY/2011/08

West Ventilation Building Green Roof



LEGEND:

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




KEYPLAN

AS-BUILT

REV	DESCRIPTION	BY	CHK	DATE
A	GENERAL REVISION	DY		10/2017

Highways Department 路政署
 Major Works Project Management Office
CENTRAL - WAN CHAI BYPASS AND IEC LINK
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CONSULTANT ENGINEER
AECOM
 AECOM Asia Co. Ltd.

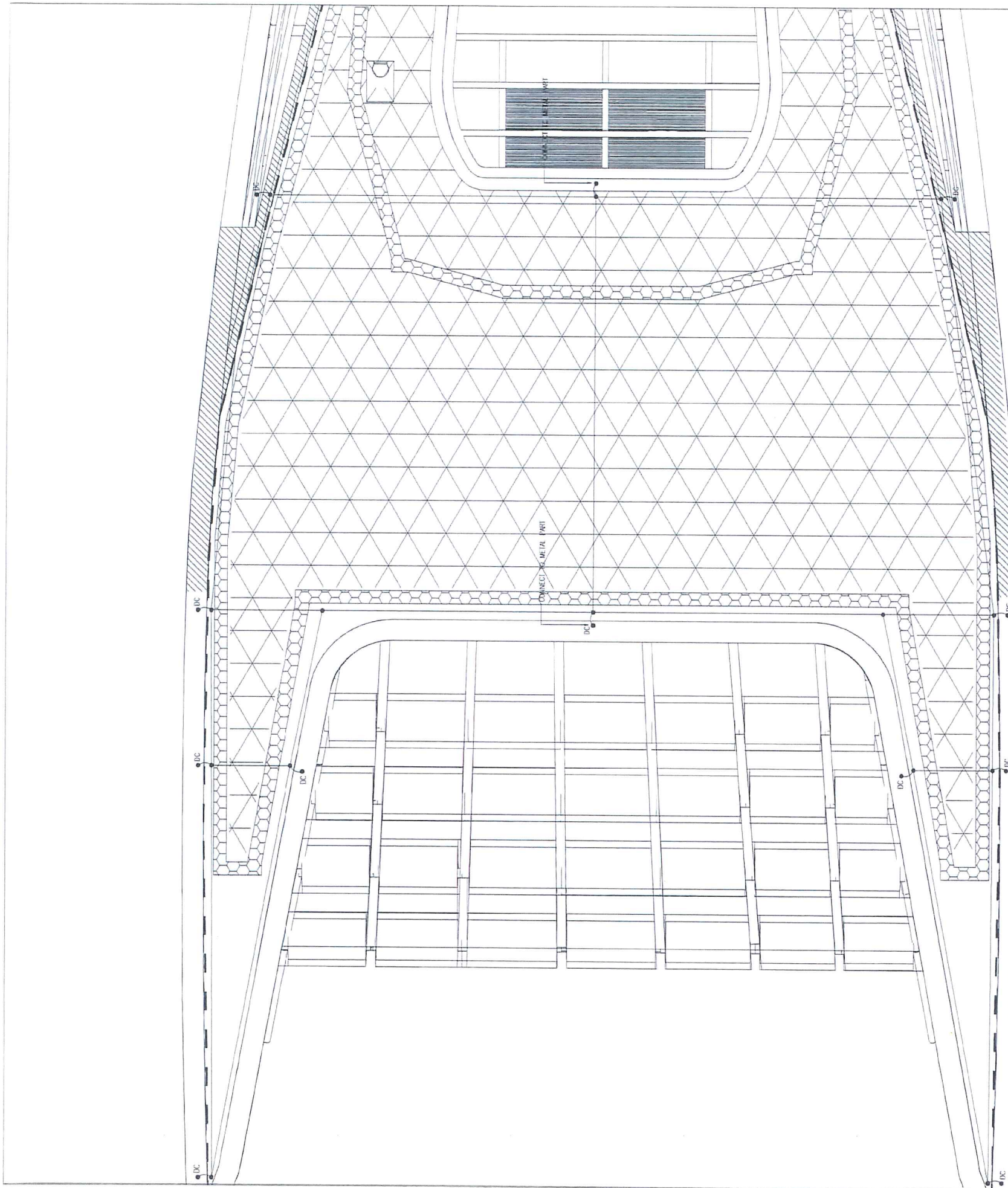
CONTRACTOR
 LEIGHTON JOINT VENTURE

CONSULTANT LANDSCAPE
 地利環境
TEAM 73

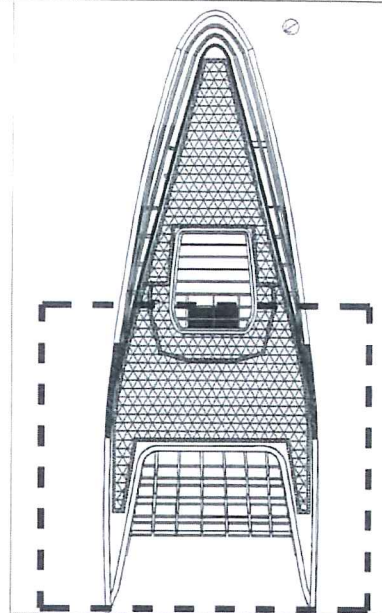
LANDSCAPE SUB-CONTRACTOR
 WAH LAI CONTRACTORS LTD

DRAWING TITLE
PLANTING PLAN - 1

DRG NO. LP - 01A	A
DESIGN BY HY	CONTRACT NO. HY/2011/26
DRAWN BY HY	APPROVED BY K. K.
SCALE 1:200@A3	DATE 10/2017
DRAWING IN MILLIMETERS	© COPYRIGHT RESERVED 版權所有



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



KEYPLAN

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A	GENERAL REVISION	DY	10 2017
REV	DESCRIPTION	DATE	BY

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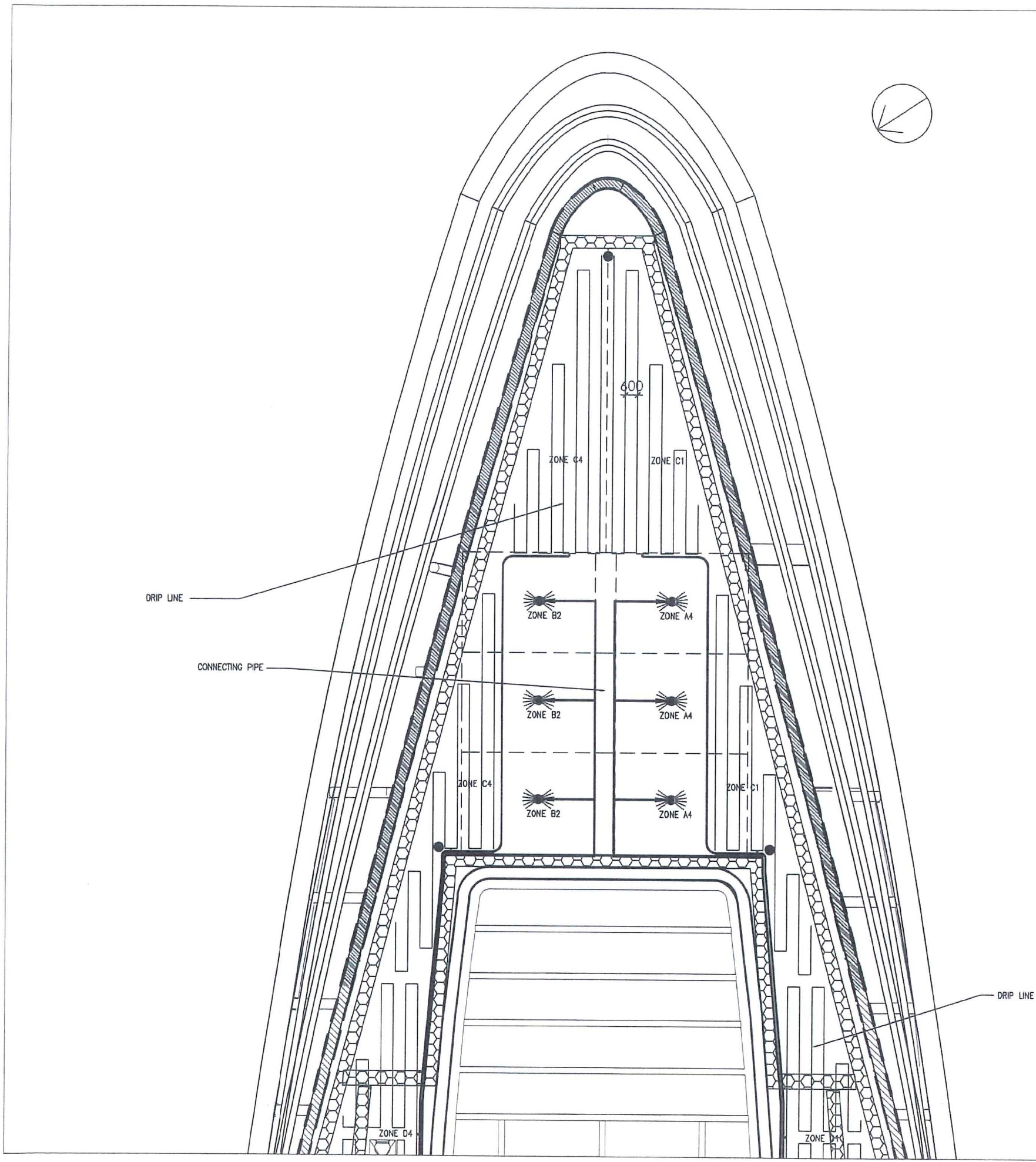
CONTRACTOR
 LEIGHTON JOINT VENTURE

CONSULTANT LANDSCAPE
 地利環境
TEAM 73

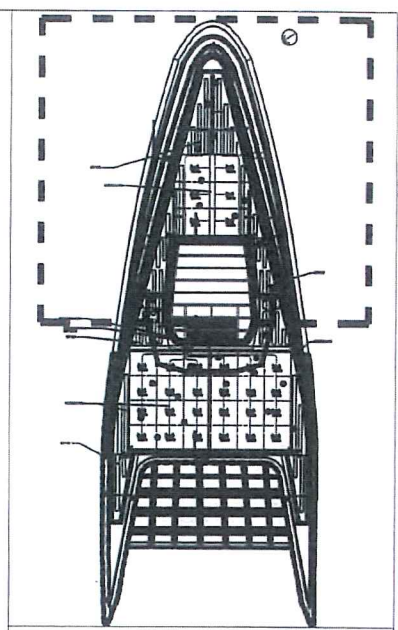
LANDSCAPE SUB-CONTRACTOR
WAH LAI CONTRACTORS LTD

DRAWING TITLE
PLANTING PLAN - 2

DRG. NO.	LP - 01B	A
DESIGN BY	CONTRACT NO.	APPROVED BY
	HY/2011/08	
DRAWN BY	STATUS	
SCALE	1:200@A3	
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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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REV	DESCRIPTION	BY	DATE
A	GENERAL REVISION	DY	10/2017

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

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CONTRACTOR
LEIGHTON JOINT VENTURE

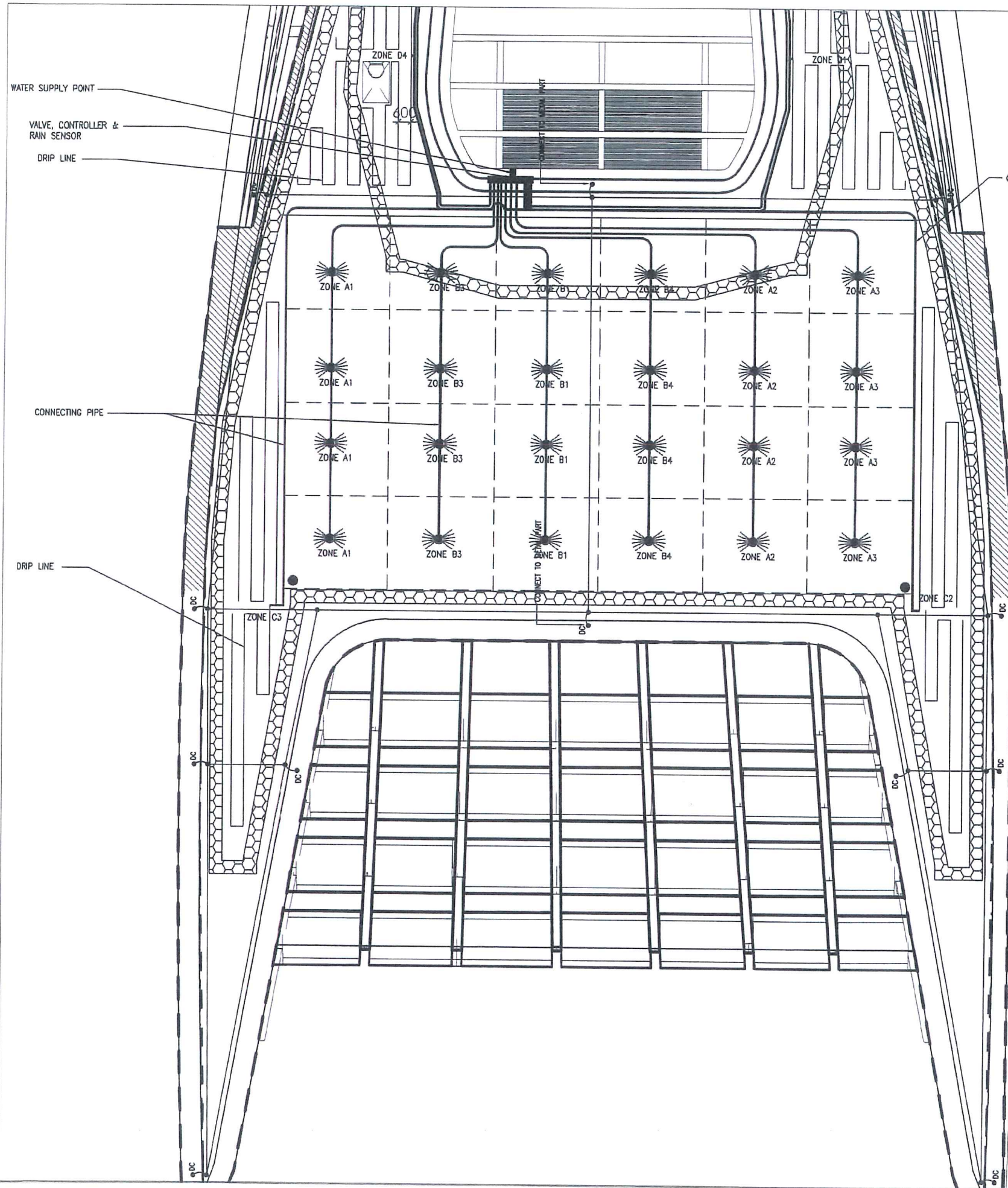
CONSULTANT LANDSCAPE
地利環境 TEAM 73

LANDSCAPE SUB-CONTRACTOR
WAH LAI CONTRACTORS LTD

DRAWING TITLE
IRRIGATION PLAN - 1

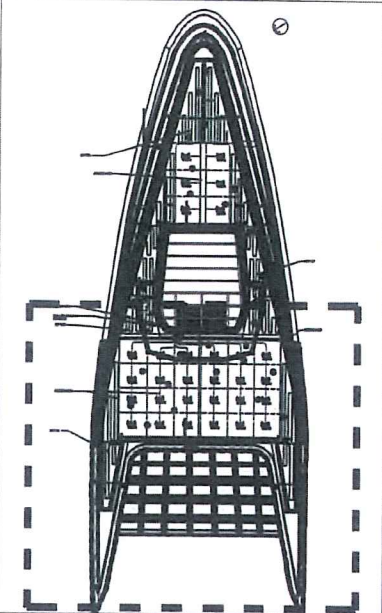
DRG. NO. LP - 02A	A
DESIGN BY HY	CONTRACT NO. HY/2011/08
DRAWN BY HY	DATE 12/11
SCALE 1:200@A3	SHOWN IN METERS

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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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REV.	DESCRIPTION	BY	DATE
A	GENERAL REVISION	DY	10/2017

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

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AECOM
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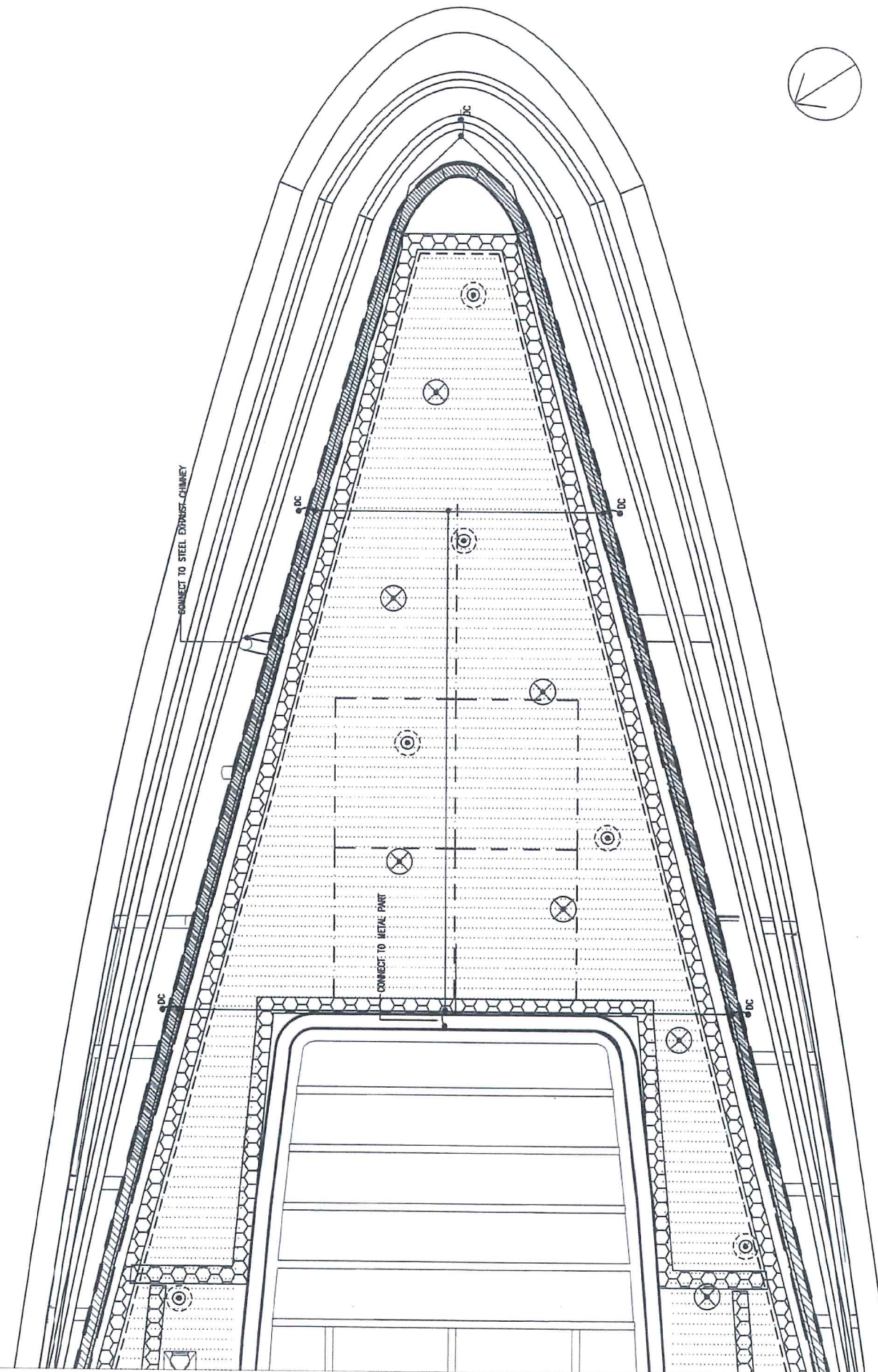
CONTRACTOR
 LEIGHTON JOINT VENTURE

CONSULTANT LANDSCAPE
 地利環境
 TEAM 73

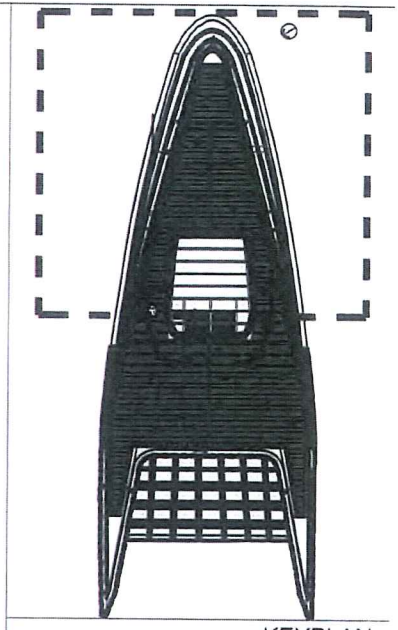
LANDSCAPE SUB-CONTRACTOR
 WAH LAI CONTRACTORS LTD

DRAWING TITLE
 IRRIGATION PLAN - 2

DRG NO. LP - 02B	A	
DESIGN BY HY	CONTRACT NO. HY/2011/08	APPROVED BY 15.11
DRAWN BY W.E	DATE 12/11	
SCALE 1:200@A3		
DRAWING SHEET NO. 11	COPYRIGHT RESERVED © 歷 權 所 有	



- 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

NO.	DESCRIPTION	BY	DATE
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

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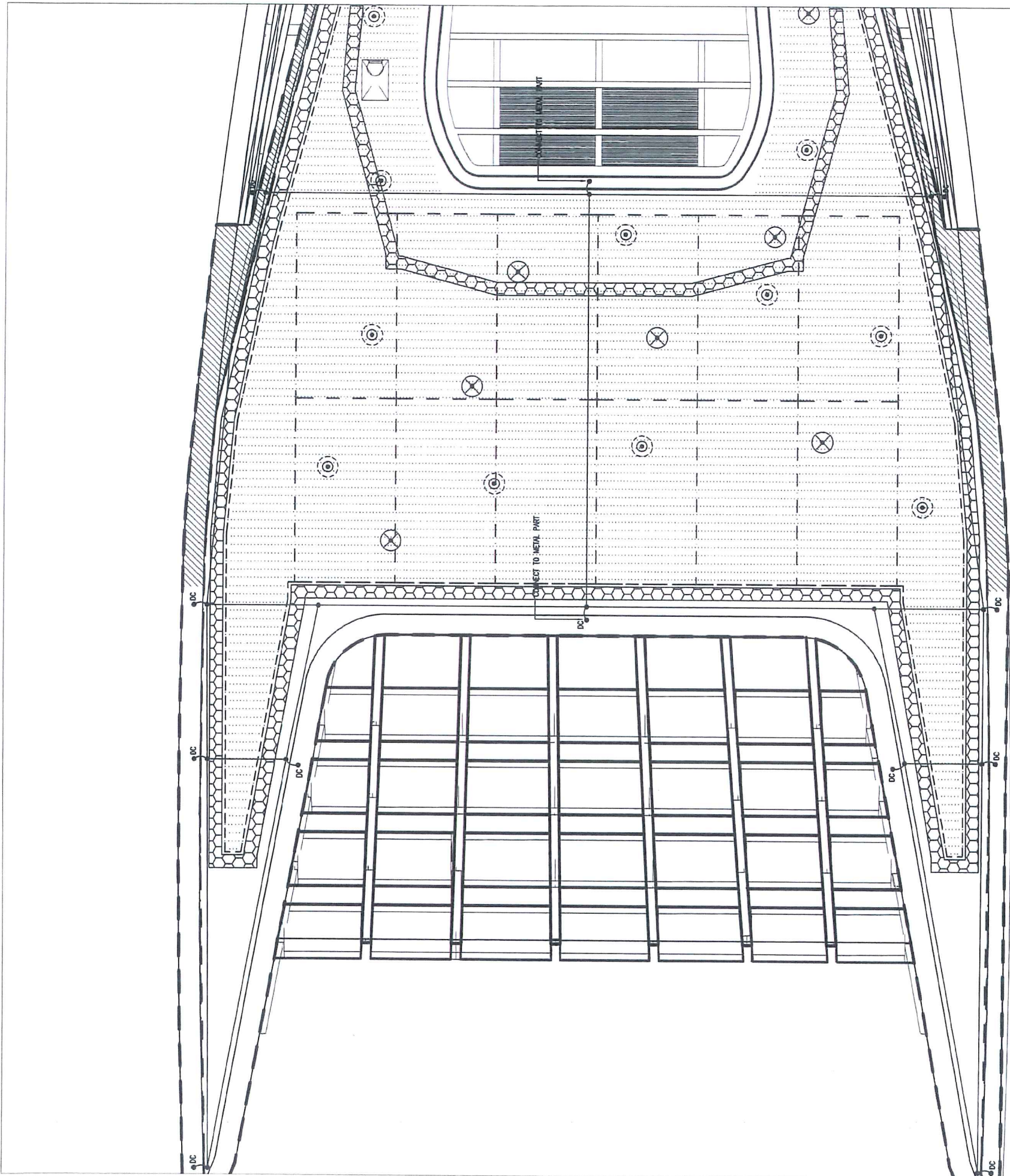
CONTRACTOR
 LEIGHTON JOINT VENTURE

CONSULTANT LANDSCAPE
 地利環境
TEAM 73

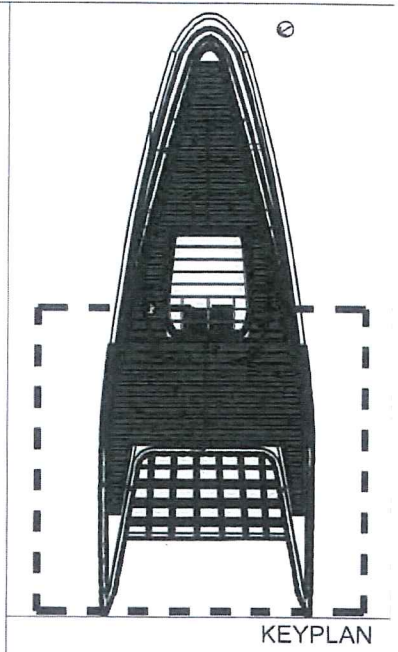
LANDSCAPE SUB-CONTRACTOR
WAH LAI CONTRACTORS LTD

DRAWING TITLE
LIGHTING PLAN - 1

DRG. NO. LP - 05	A
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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)



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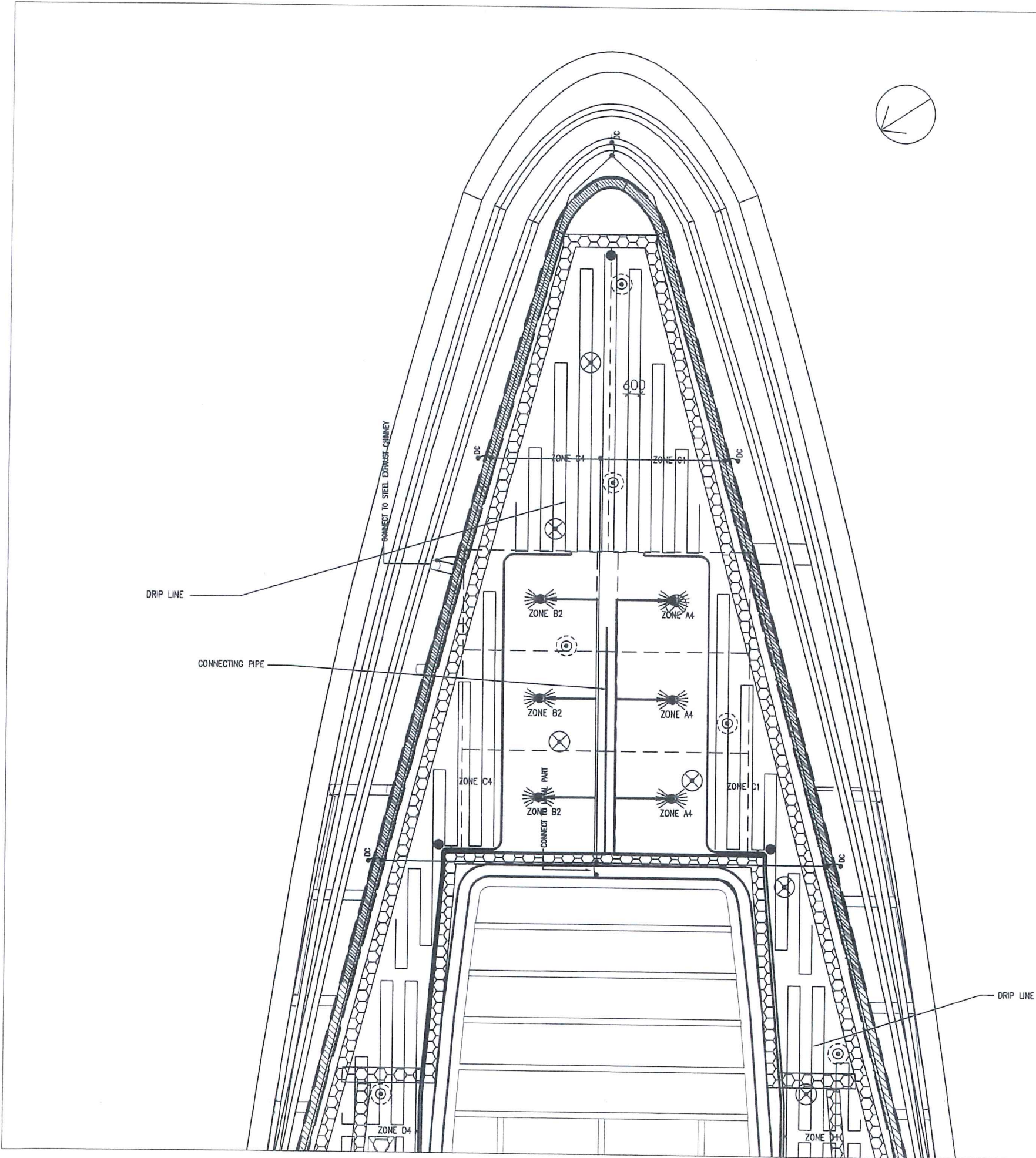
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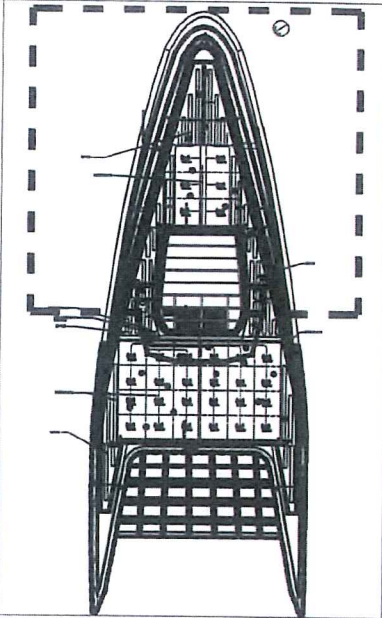
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LIGHTING PLAN - 2

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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

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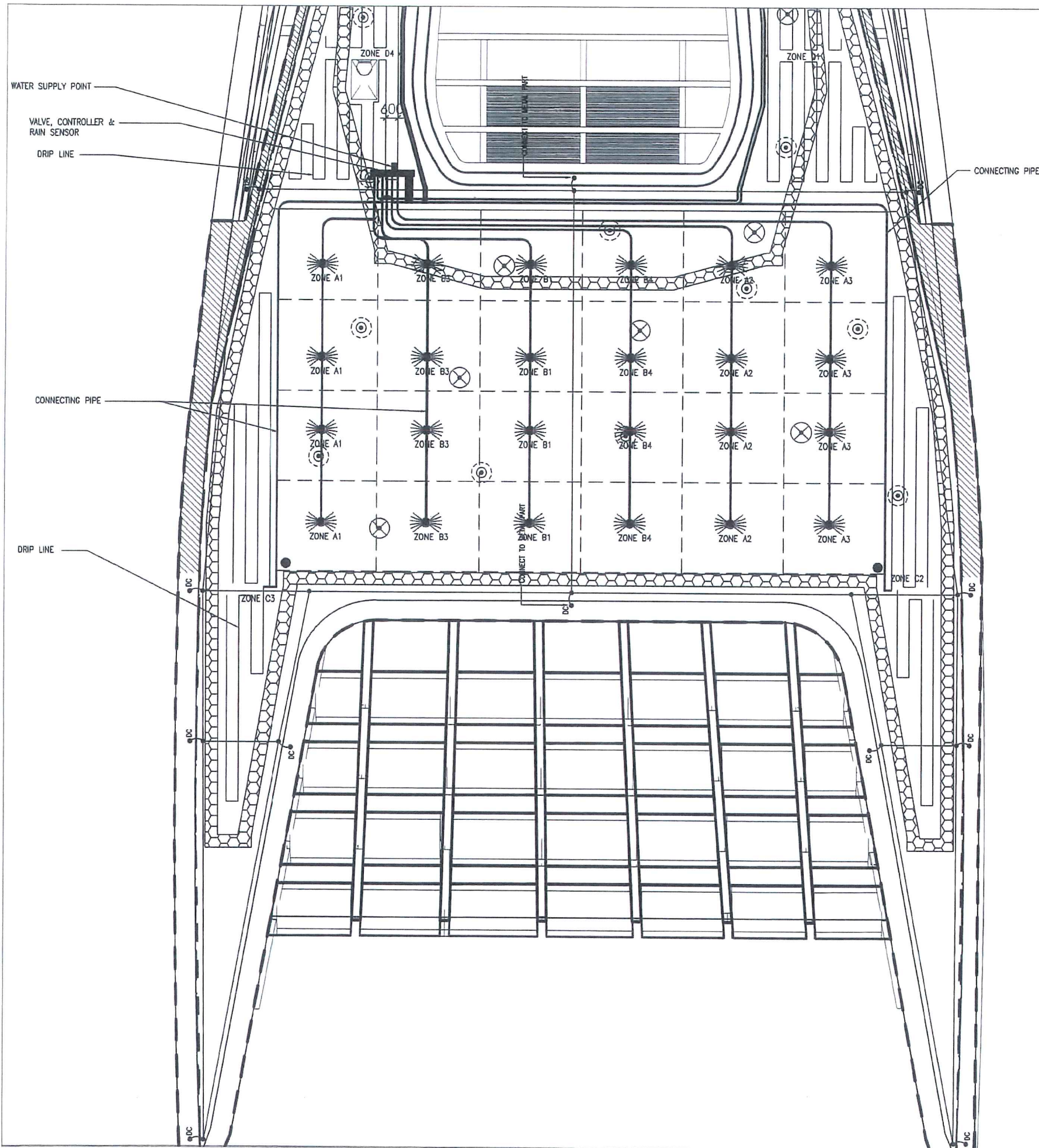
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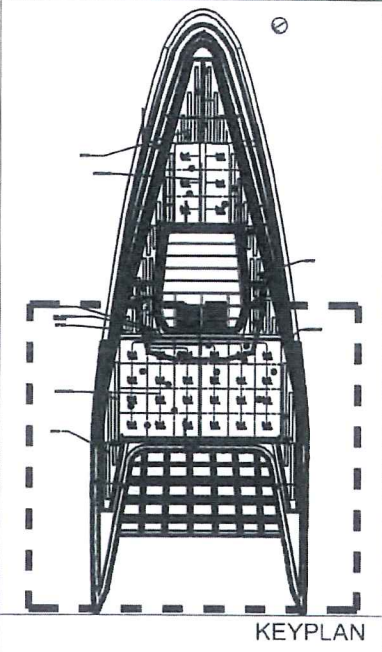
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E&M SERVICE PLAN - 1

DRG. NO.	LP - 07	B
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DATE	10/11	

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1200 Mini Roll Over 4 Openings 3W
(3 LED - 4000K) 4 X 60 degree
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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



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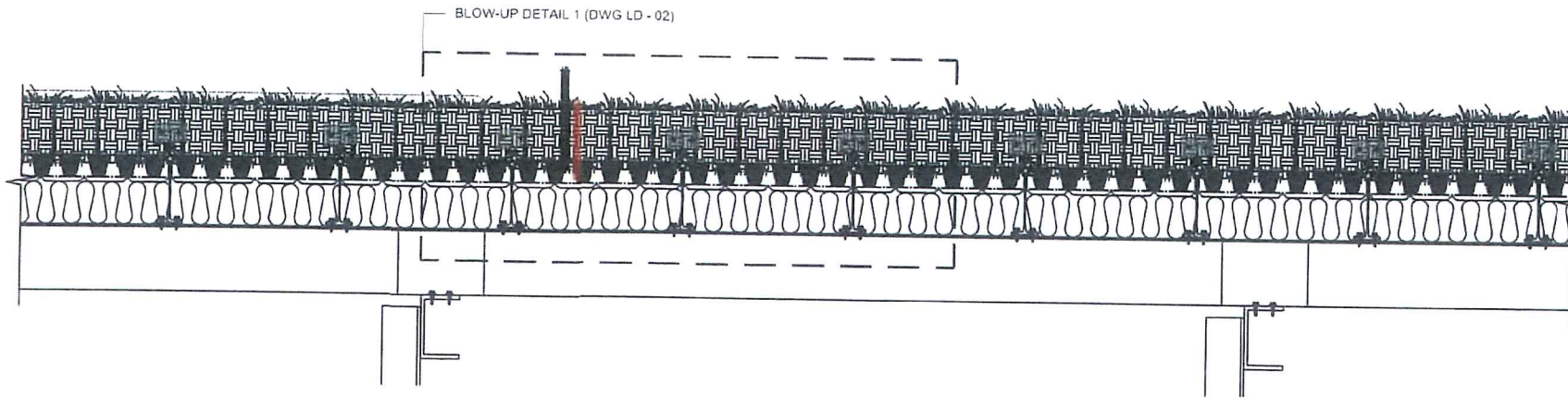
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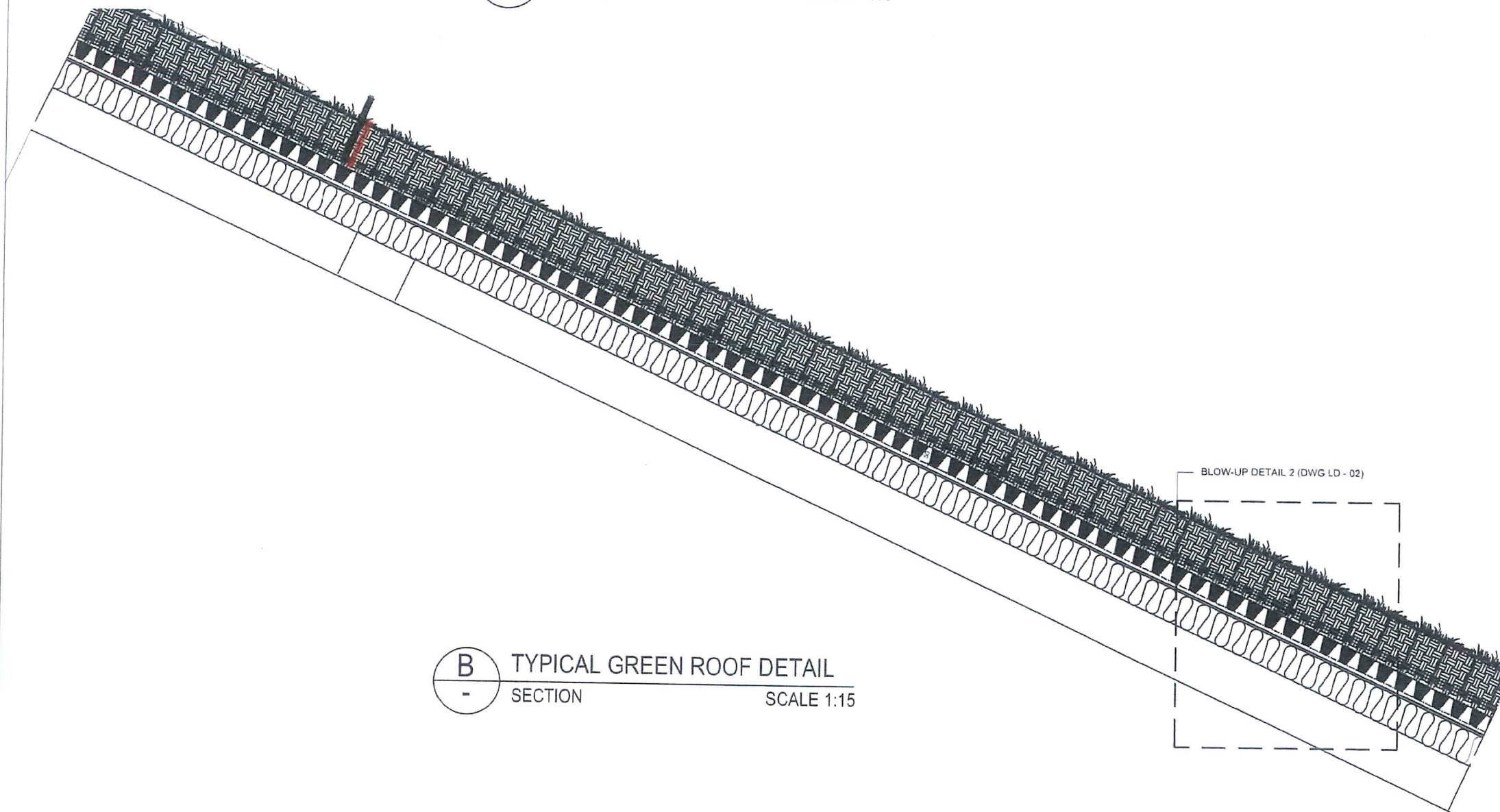
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E&M SERVICE PLAN - 2

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A TYPICAL GREEN ROOF DETAIL
SECTION SCALE 1:15



B TYPICAL GREEN ROOF DETAIL
SECTION SCALE 1:15

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B	GENERAL REVISION	DY	10 2017
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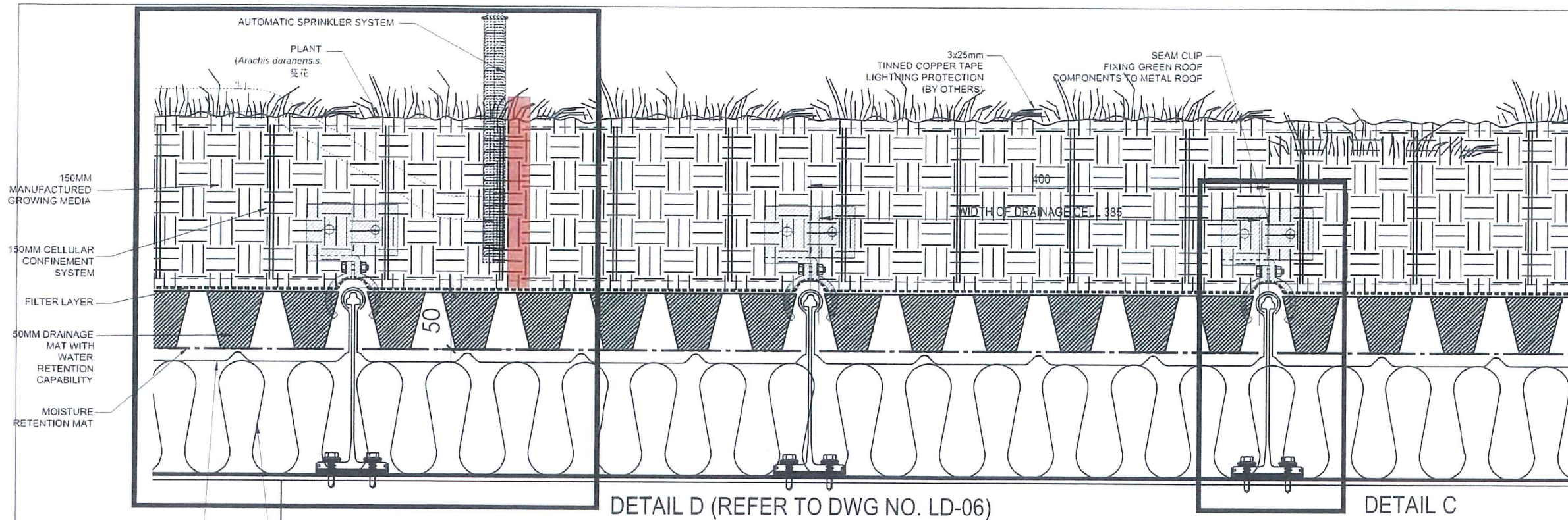
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**WAN CHAI N-POINT BYPASS
TYPICAL GREEN ROOF
DETAIL - 1**

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SCALE AS SHOWN	DATE 12 17
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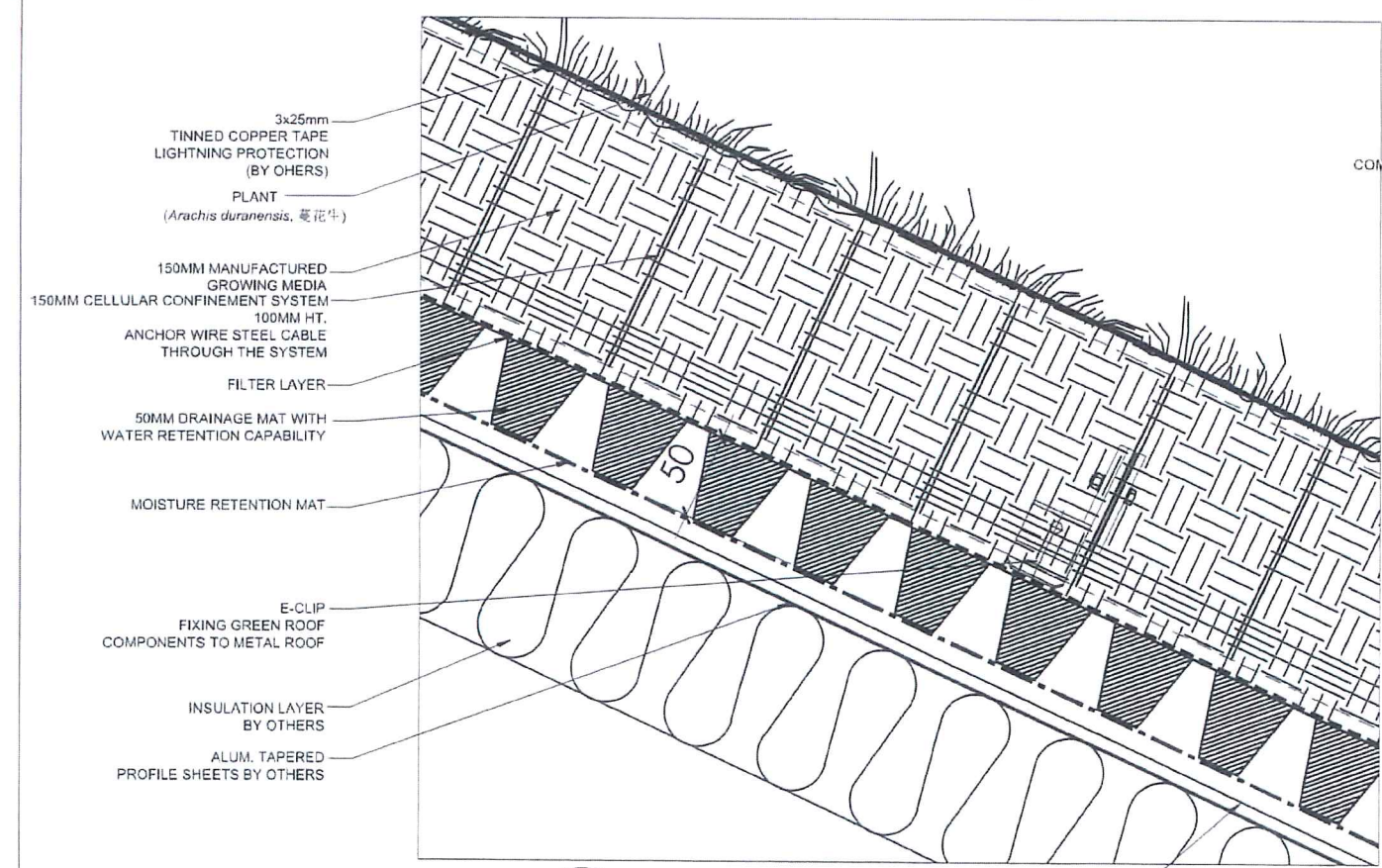
AS-BUILT

DETAIL D (REFER TO DWG NO. LD-06)

DETAIL C

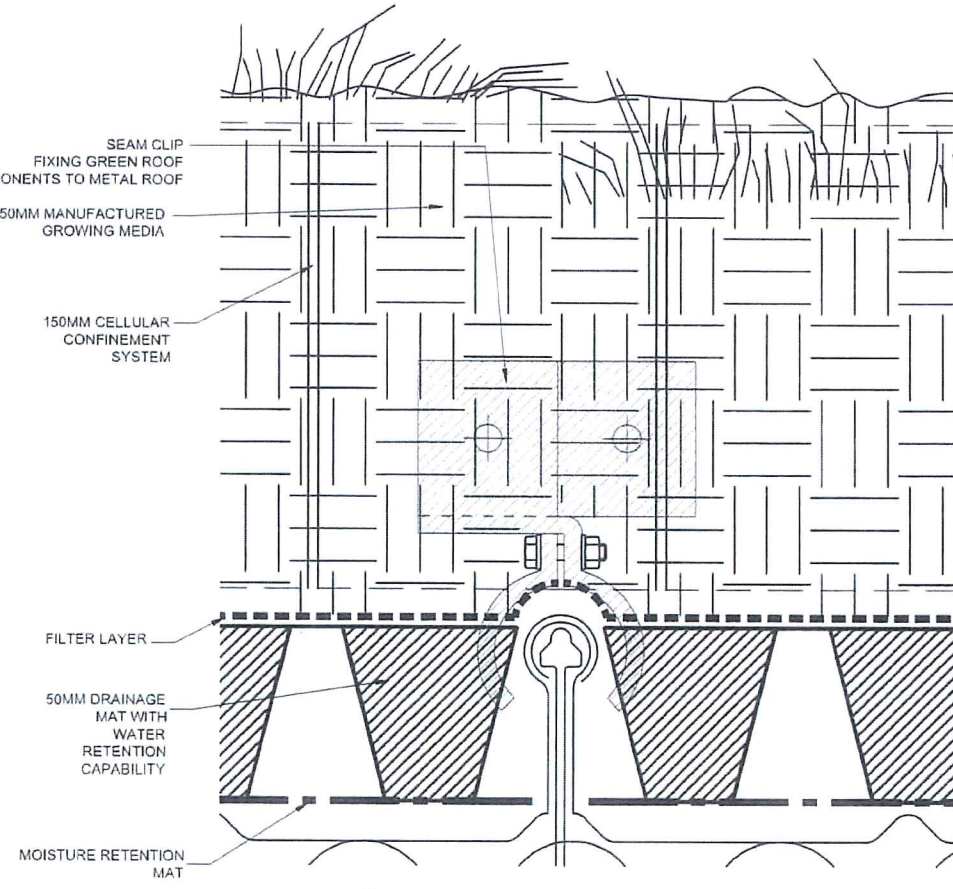
A BLOW-UP DETAIL 1
SCALE 1:4

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	CHECKED	DATE
D	GENERAL REVISION	DY		04 2019
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DRAWING TITLE
**WAN CHAI N-POINT BYPASS
WVB TYPICAL GREEN ROOF
DETAIL - 2**

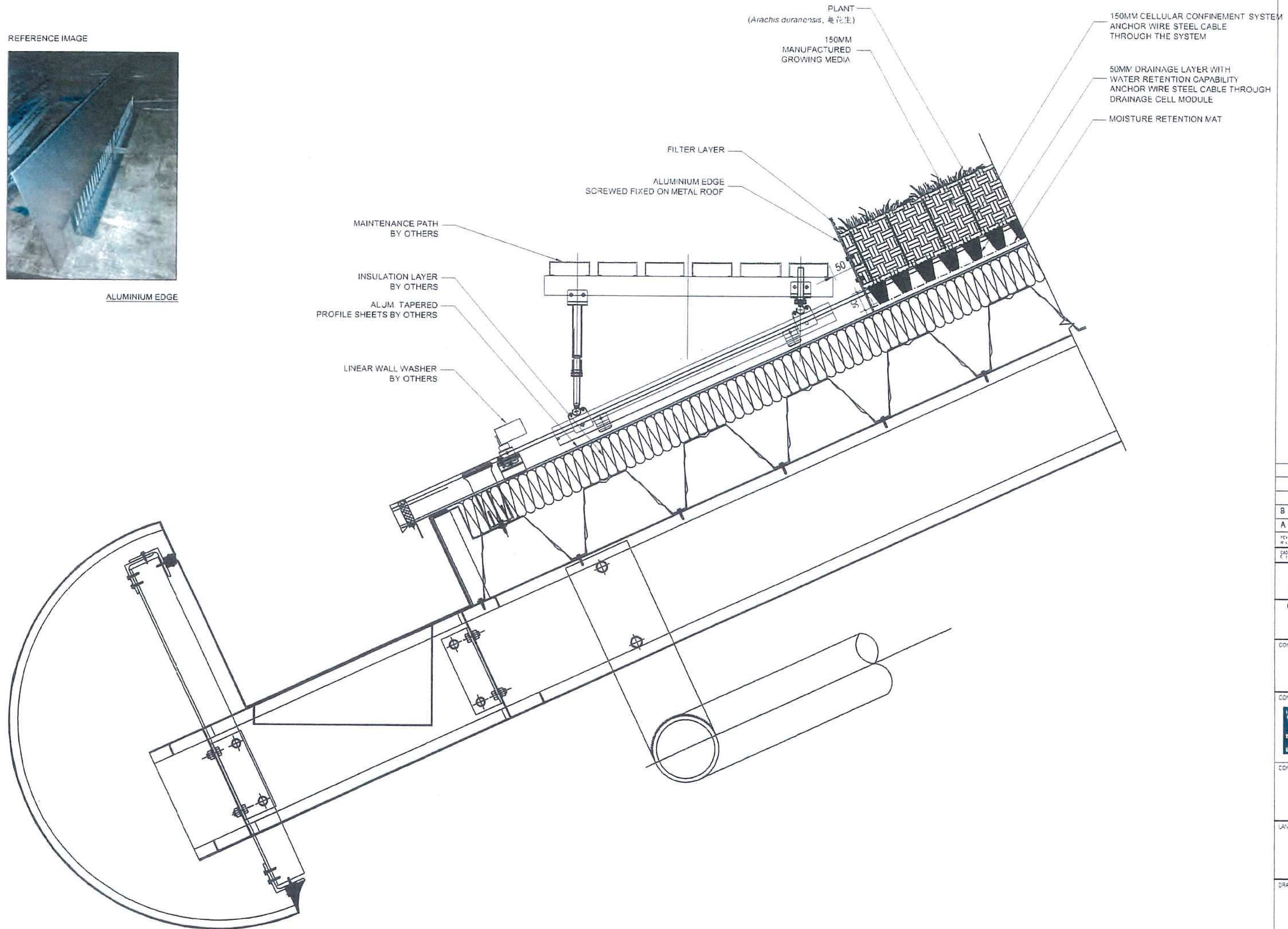
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DESIGN BY HY/2011/08	APPROVED BY S. Y.
SCALE AS SHOWN	DRAWING DATE MILLIMETERS

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ALUMINIUM EDGE



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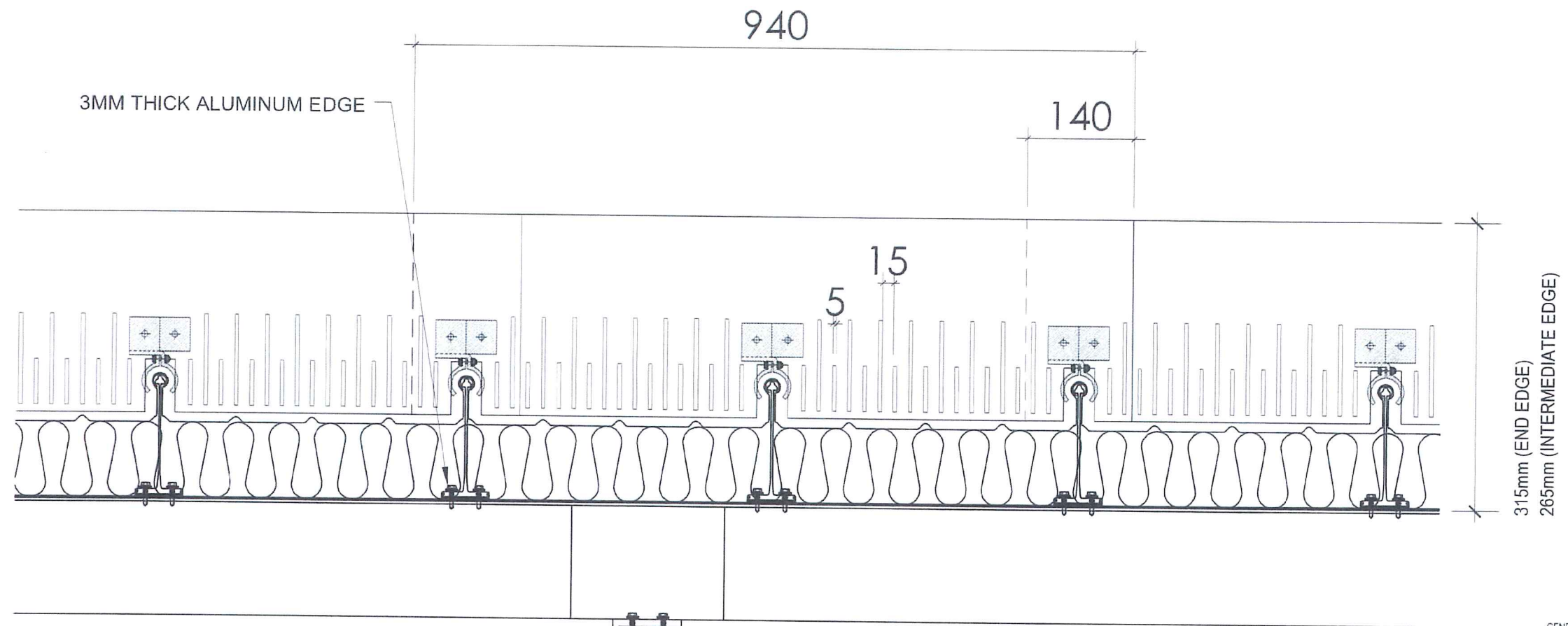
DRAWING TITLE
**WAN CHAI N-POINT BYPASS
TYPICAL GREEN ROOF
DETAIL - 3**

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A GREEN ROOF EDGING DETAIL
SCALE 1:10



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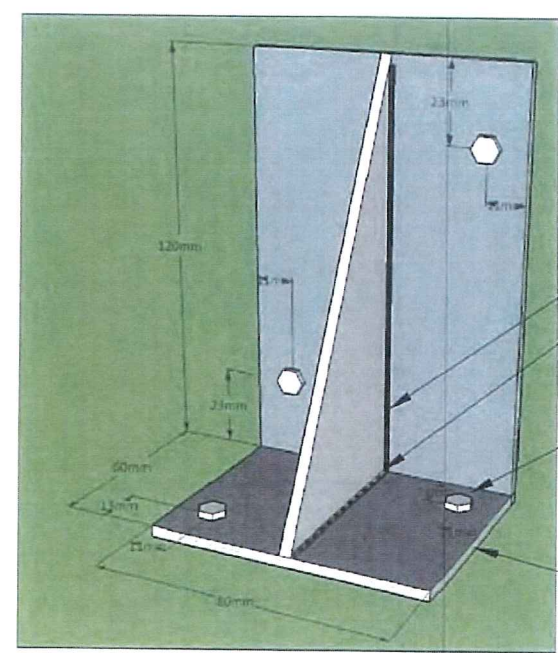
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WAH LAI CONTRACTORS LTD

DRAWING TITLE
**TYPICAL GREEN ROOF
 DETAIL - 4**

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SCALE	AS SHOWN	
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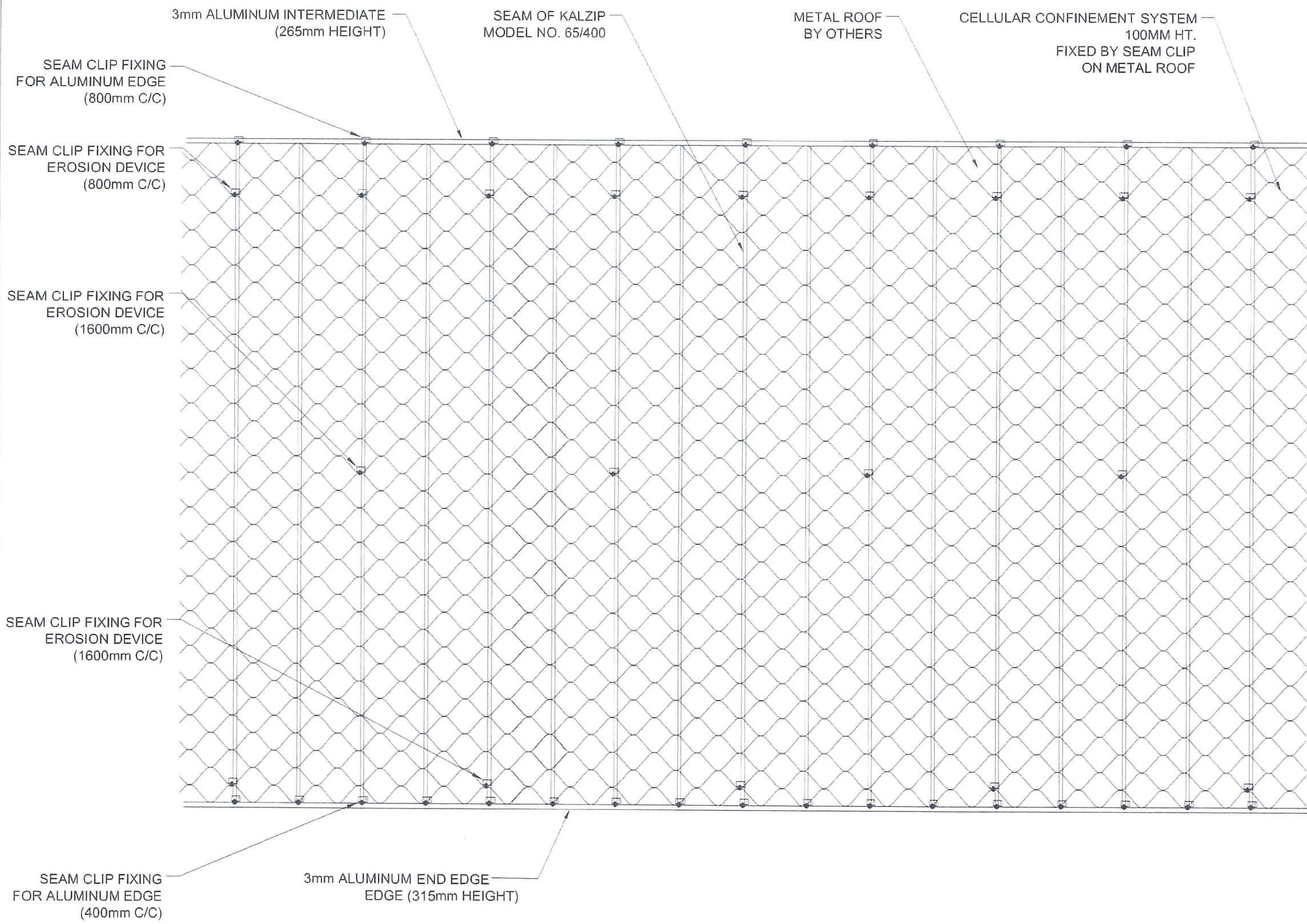
A GREEN ROOF ALUMINUM INTERMEDIATE / END EDGE DETAIL
 SCALE 1:10



- WELDING
- 6MM DIA. STAINLESS STEEL SCREW
- 3mm THICK ALUMINIUM

TYPICAL ALUMINIUM SUPPORT DETAILS

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



AS-BUILT

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B	GENERAL REVISION	DY	10 2017
A	GENERAL REVISION	SI	06 2017
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1			

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

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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

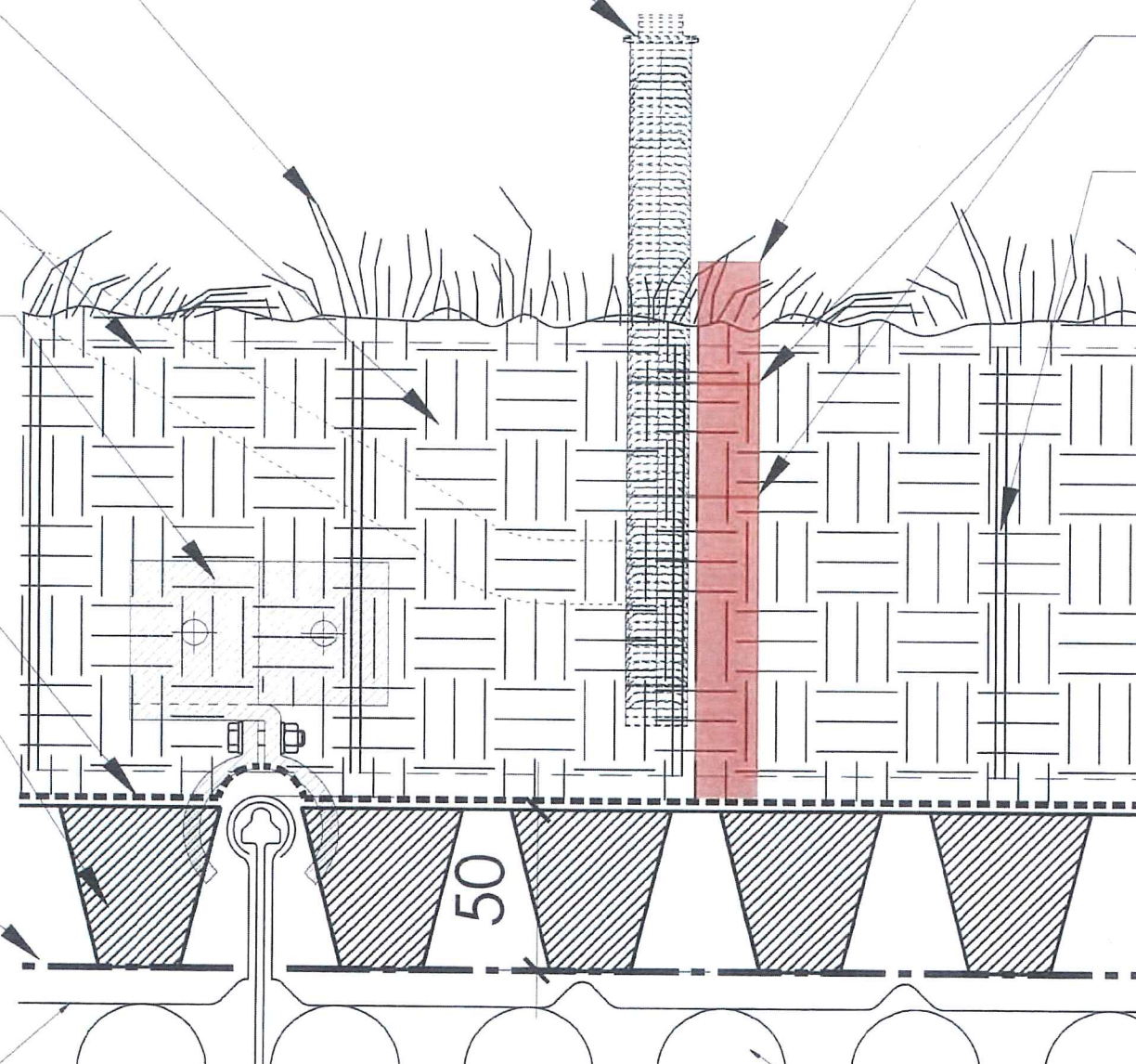
MOISTURE
RETENTION MAT

ALUM. TAPERED
PROFILE SHEETS BY
OTHERS

VP PIPES FOR
FIXING SPRINKLER
WITH PLASTIC TIES

PLASTIC TIES

150MM CELLULAR
CONFINEMENT
SYSTEM



D BLOW-UP DETAIL
SCALE 1:2

INSULATION LAYER
BY OTHERS

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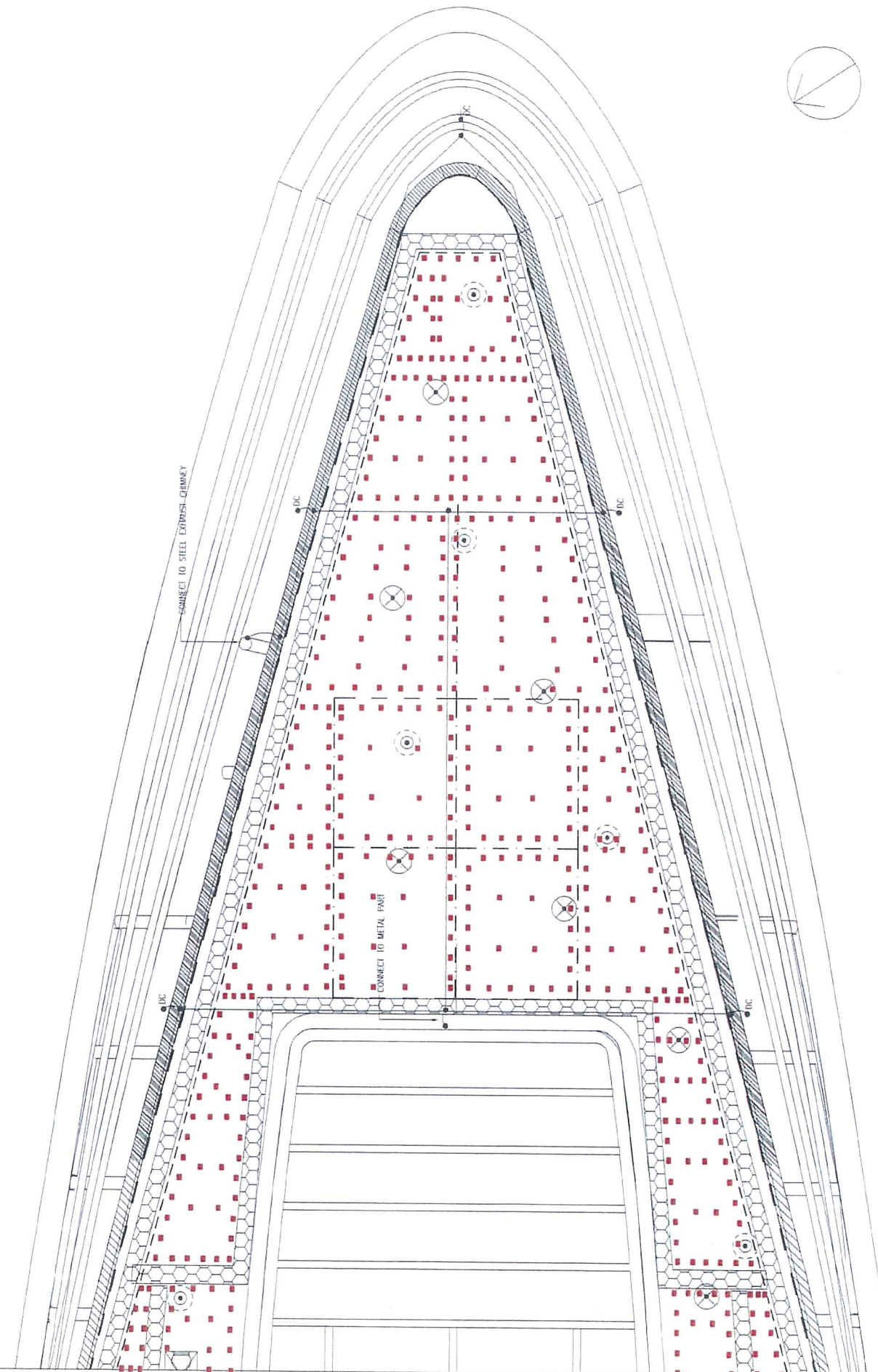
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DRAWING TITLE
**WAN CHAI N-POINT BYPASS
WVB TYPICAL GREEN ROOF
DETAIL - 6**

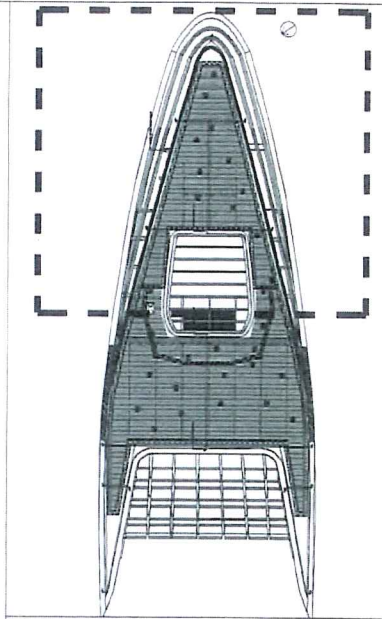
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LEGEND:
■ Aluminium Seam Clip



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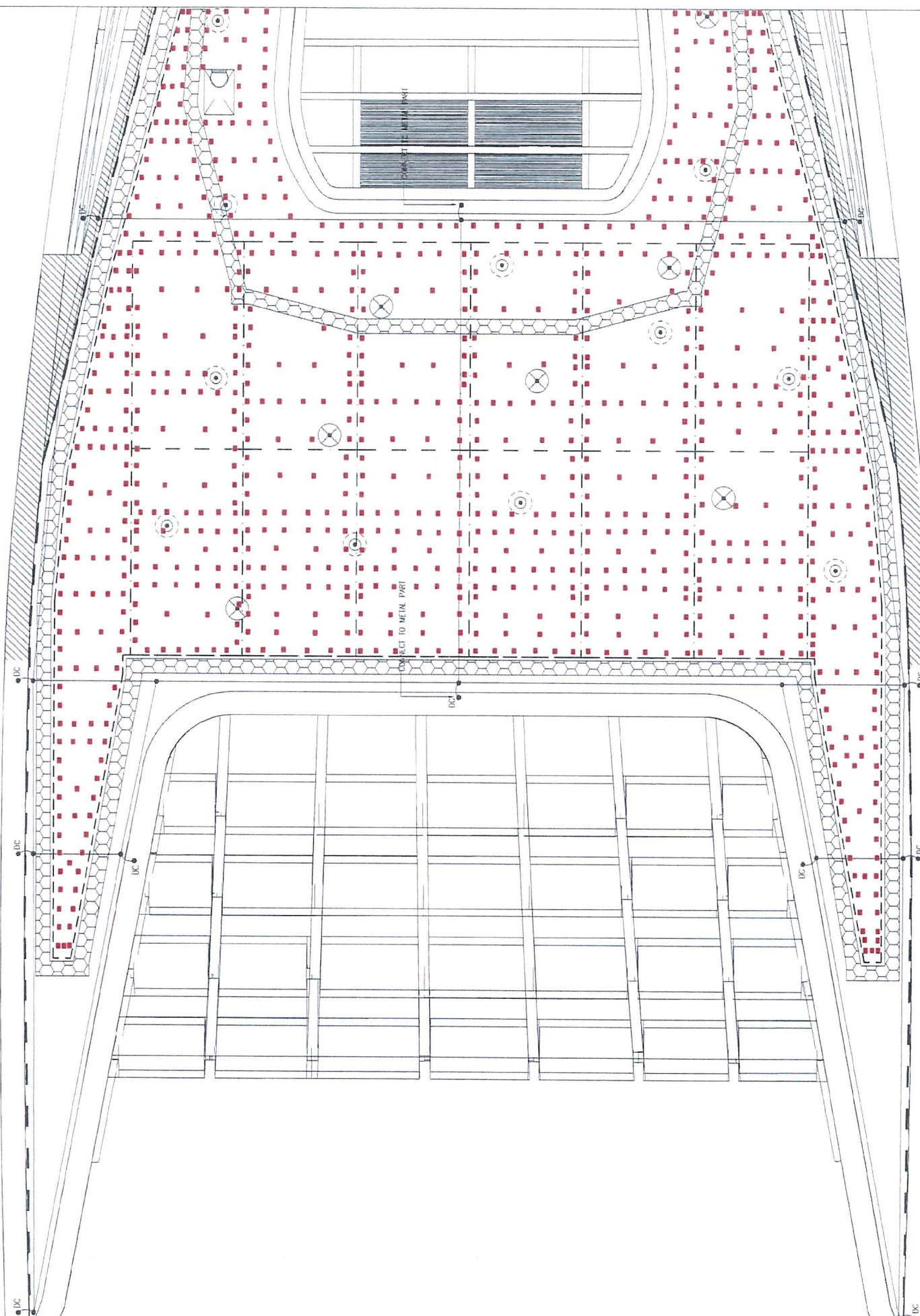
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DRAWING TITLE
**LAYOUT PLAN OF
 ALUMINIUM SEAM CLIP**

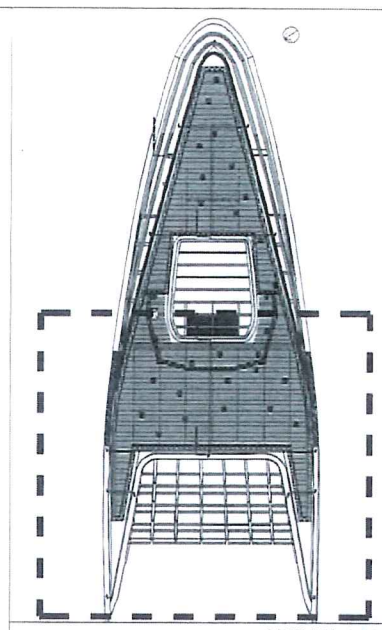
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LEGEND:

■ Aluminium Seam Clip



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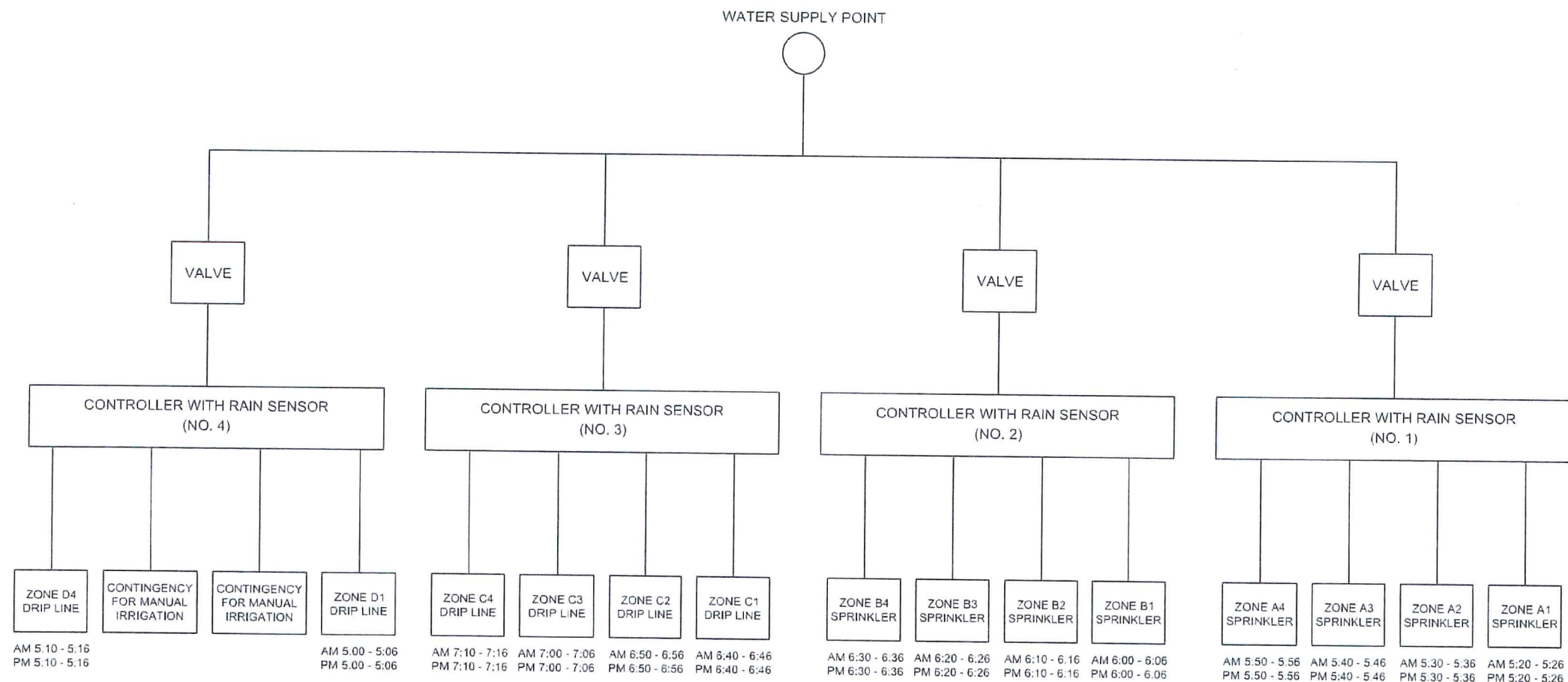
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DRAWING TITLE
LAYOUT PLAN OF ALUMINIUM SEAM CLIP

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SCHEMATIC DIAGRAM FOR AUTOMATIC IRRIGATION SYSTEM



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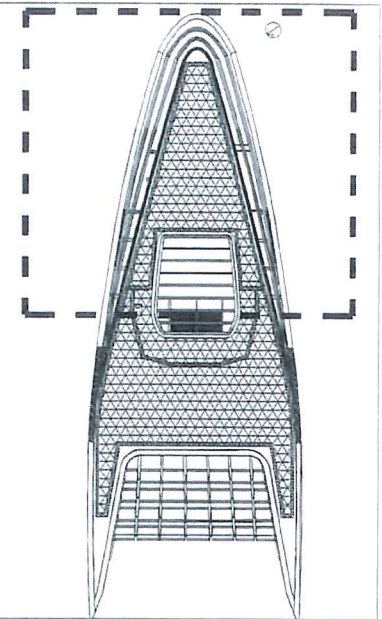
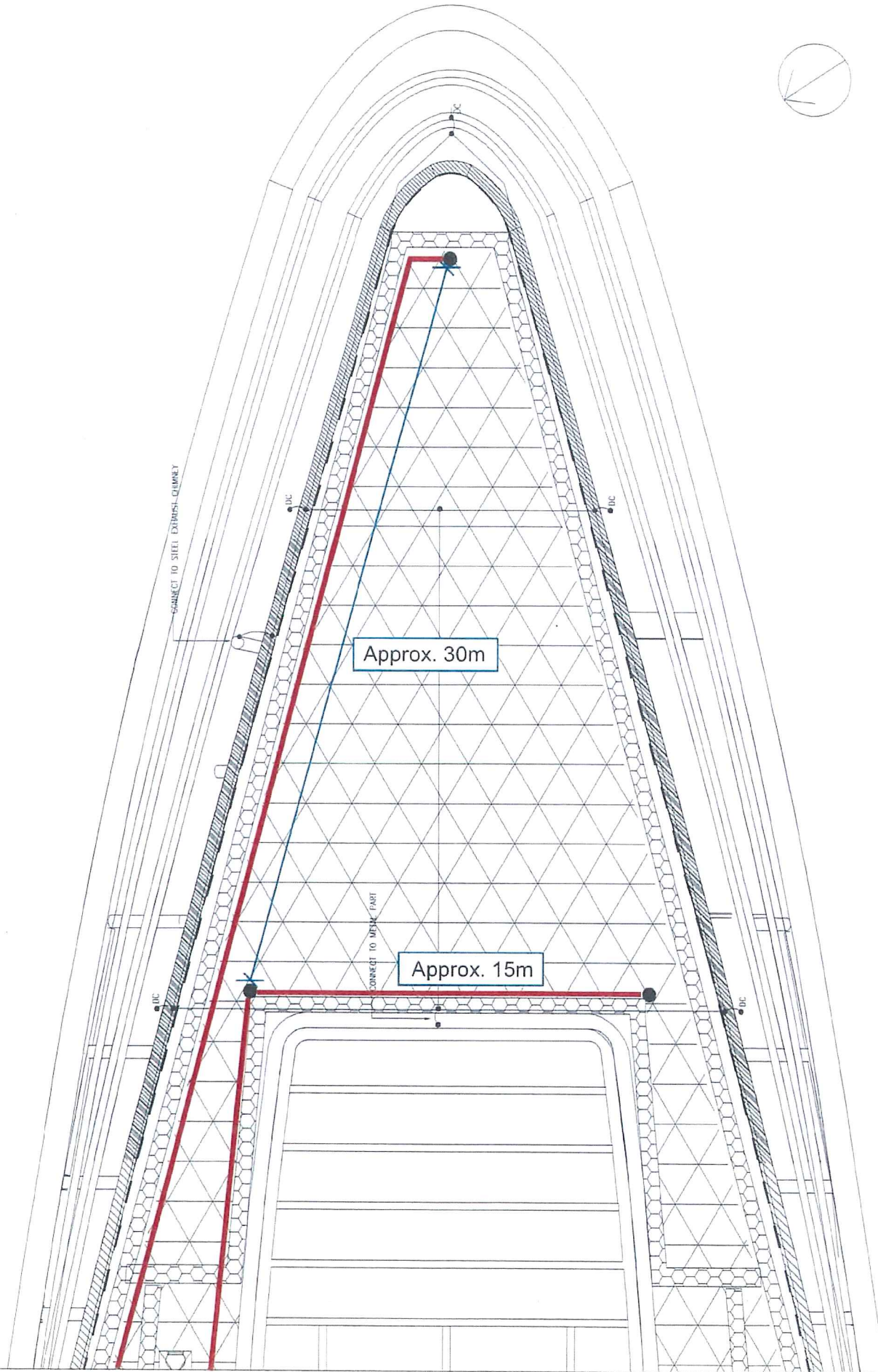
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**SCHEMATIC DIAGRAM FOR
 AUTOMATIC IRRIGATION
 SYSTEM**

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SCALE	N.T.S.	
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- LEGEND:
- Back Up Water Point
 - VP Pipe



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CONTRACTOR

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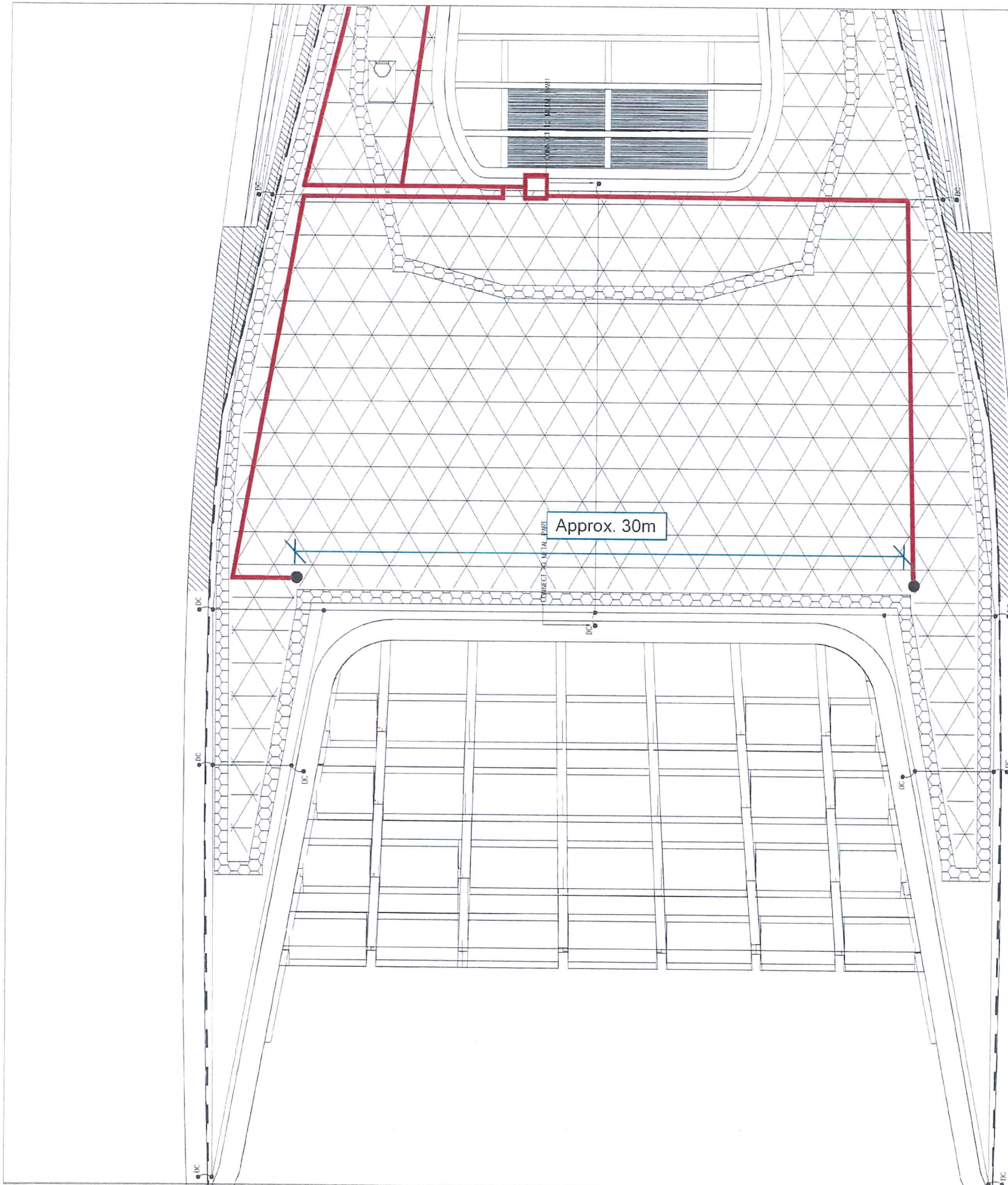
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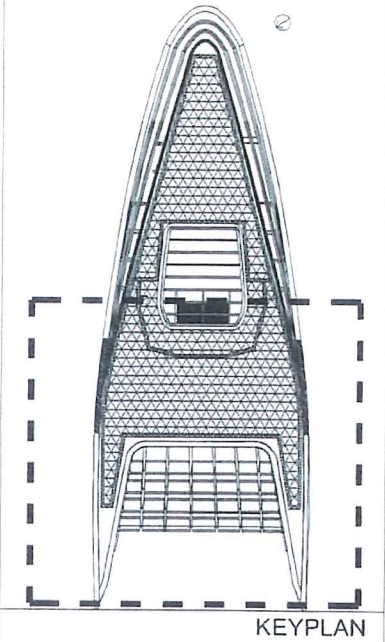
DRAWING TITLE
 LAYOUT OF BACK UP
 WATER POINT

DRG. NO. 圖號	LT-01	REV. NO. 圖則	A
DESIGN BY 設計	CONTRACT NO. 合約編號	APPROVED BY 校核	
DRAWN BY 繪圖	HY/2011/08	DATE 日期	
SCALE 比例	1:200@A3		



LEGEND:

- Back Up Water Point
- VP Pipe



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 LEIGHTON JOINT VENTURE

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DRAWING TITLE
**LAYOUT OF BACK UP
 WATER POINT**

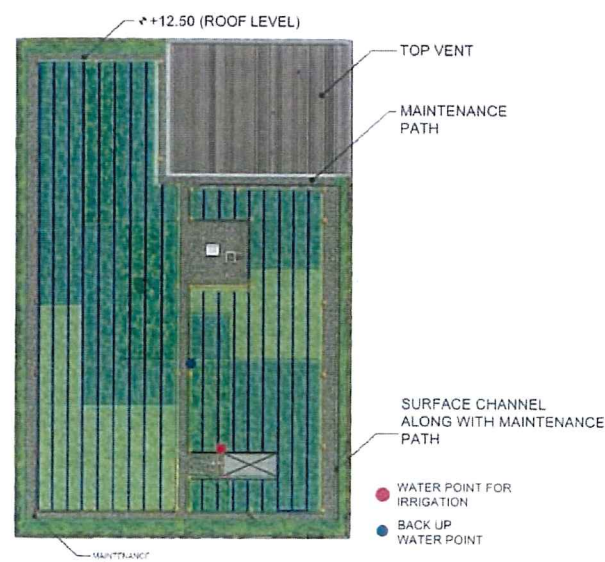
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East Ventilation Building Green Roof

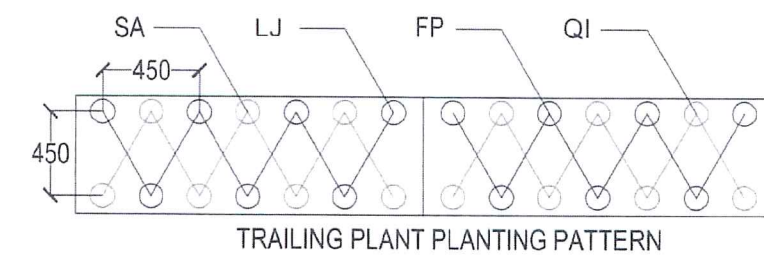
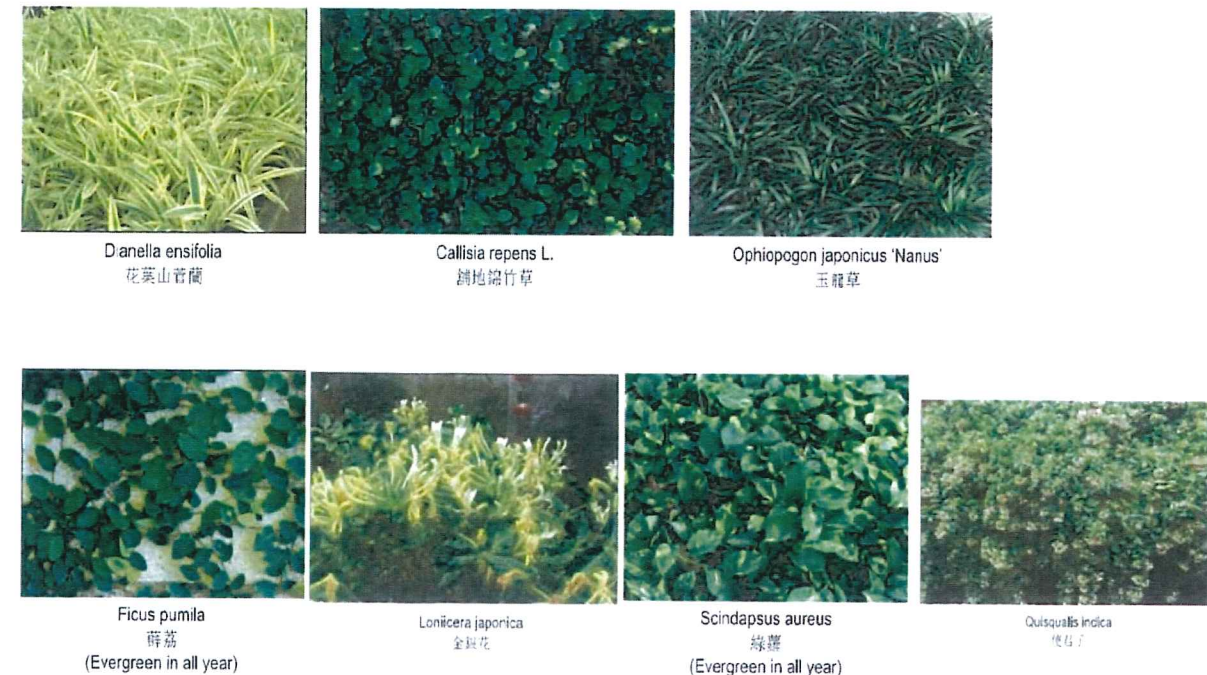


A EVB GREEN ROOF PLAN
IMAGE 1:300



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			114	
SA	Scindapsus aureus (25%)	綠蘿	1000 long			114	
QI	Quisquails Indica (25%)	使君子	1000 long			114	

C PROPOSED PLANT SCHEDULE
TABULATION NTS

AS-BUILT

REV.	DESCRIPTION	BY	CHKD.	DATE

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CONTRACTOR
LEIGHTON JOINT VENTURE

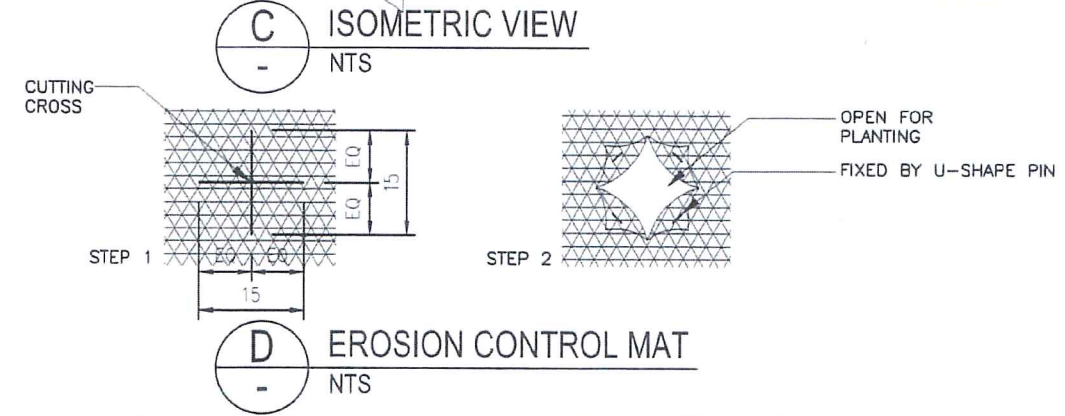
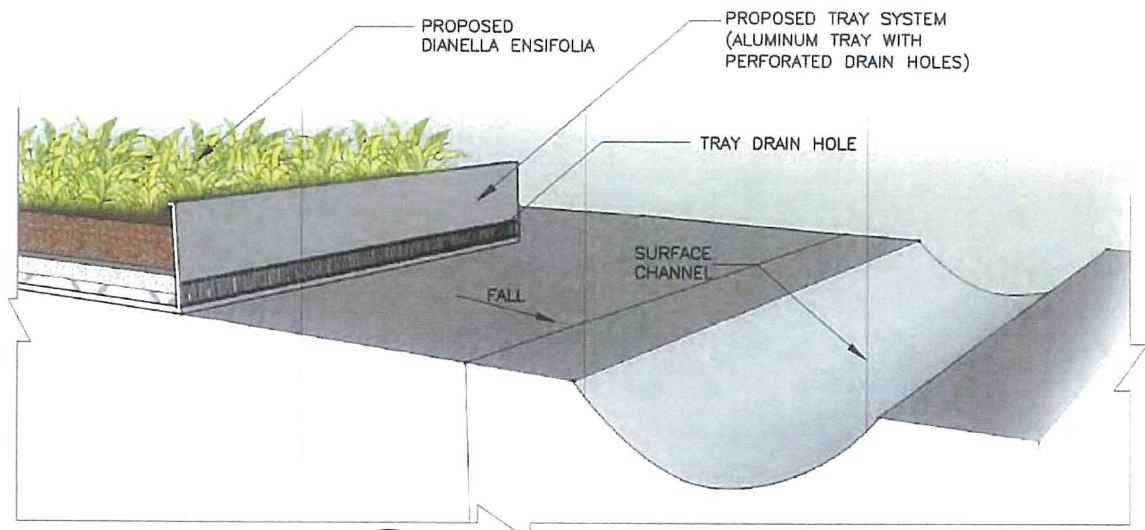
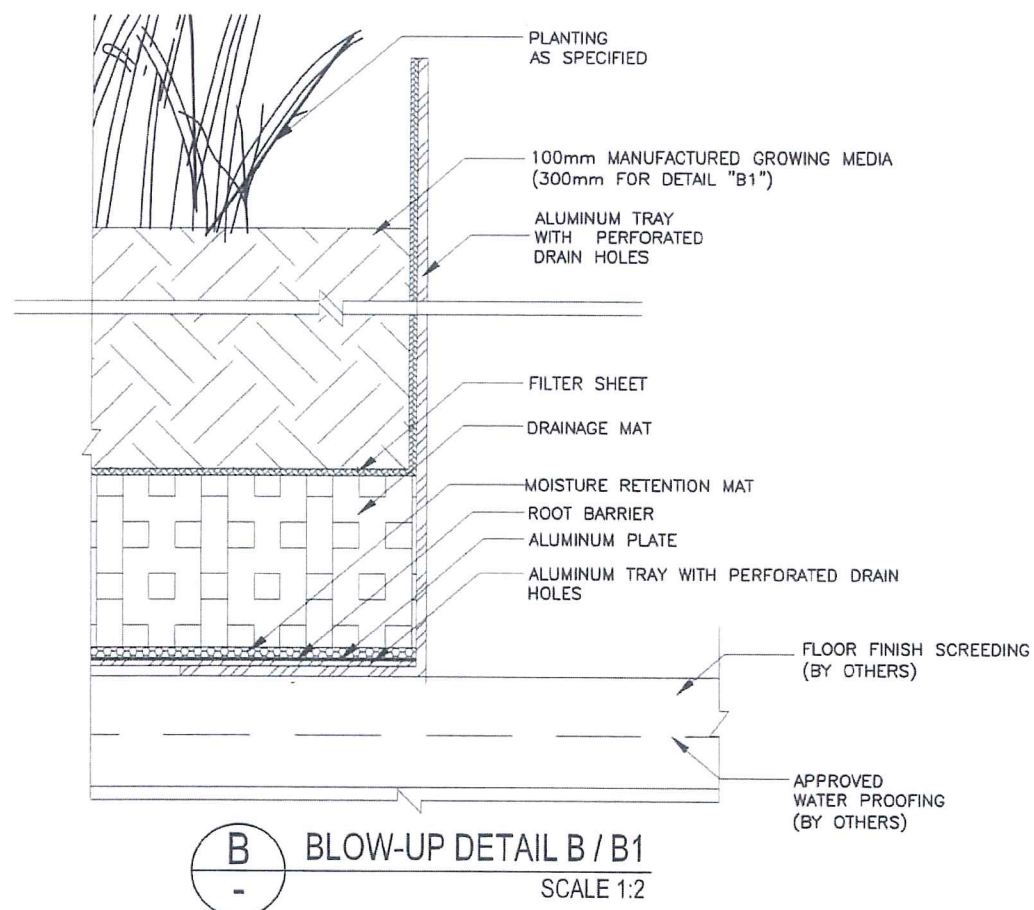
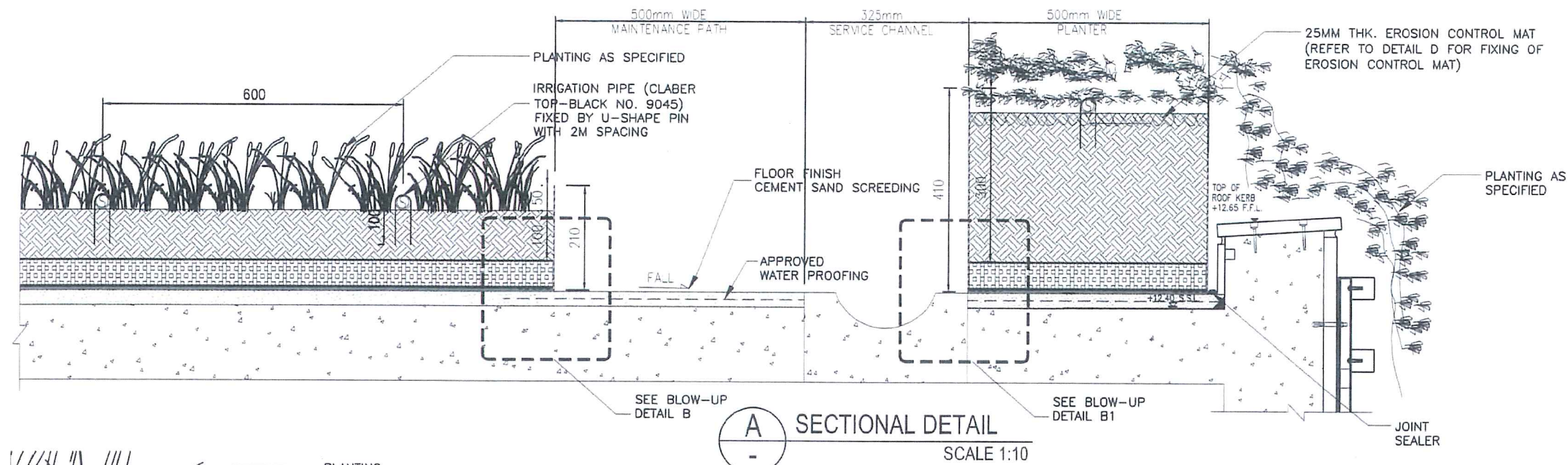
CONSULTANT LANDSCAPE

DRAWING TITLE
EVB GREEN ROOF LAYOUT, DETAIL, & SCHEDULE

DWG. NO. **LD - 01** A

DESIGN BY: LA CONTRACT NO: HY/2011/08 APPROVED BY: [Signature]
DRAWN BY: LA STATUS: [Signature]

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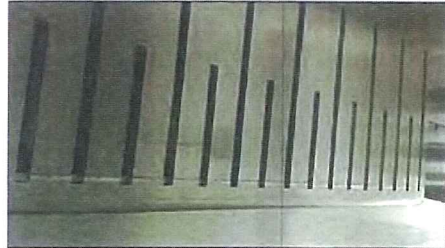
CONTRACTOR
LEIGHTON JOINT VENTURE

CONSULTANT LANDSCAPE

DRAWING TITLE
**EVG GREEN ROOF LAYOUT,
DETAIL, & SCHEDULE**

DWG. NO. LD - 02		
DESIGN BY LA	CONTRACT NO. HY/2011/08	APPROVED BY
DRAWN BY LA	DATE	
SCALE AS SHOWN		

REFERENCE IMAGES:



ALUMINUM TRAY WITH PERFORATED DRAIN HOLES



MANUFACTURED GROWING MEDIA



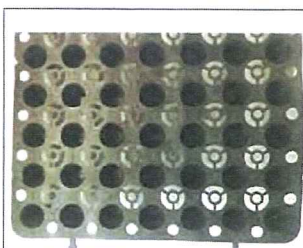
ROOT BARRIER



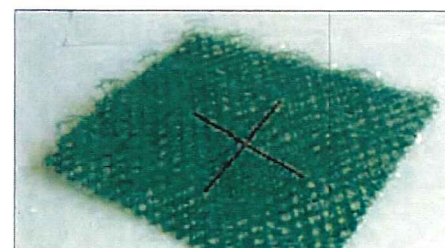
MOISTURE RETENTION MAT



FILTER SHEET



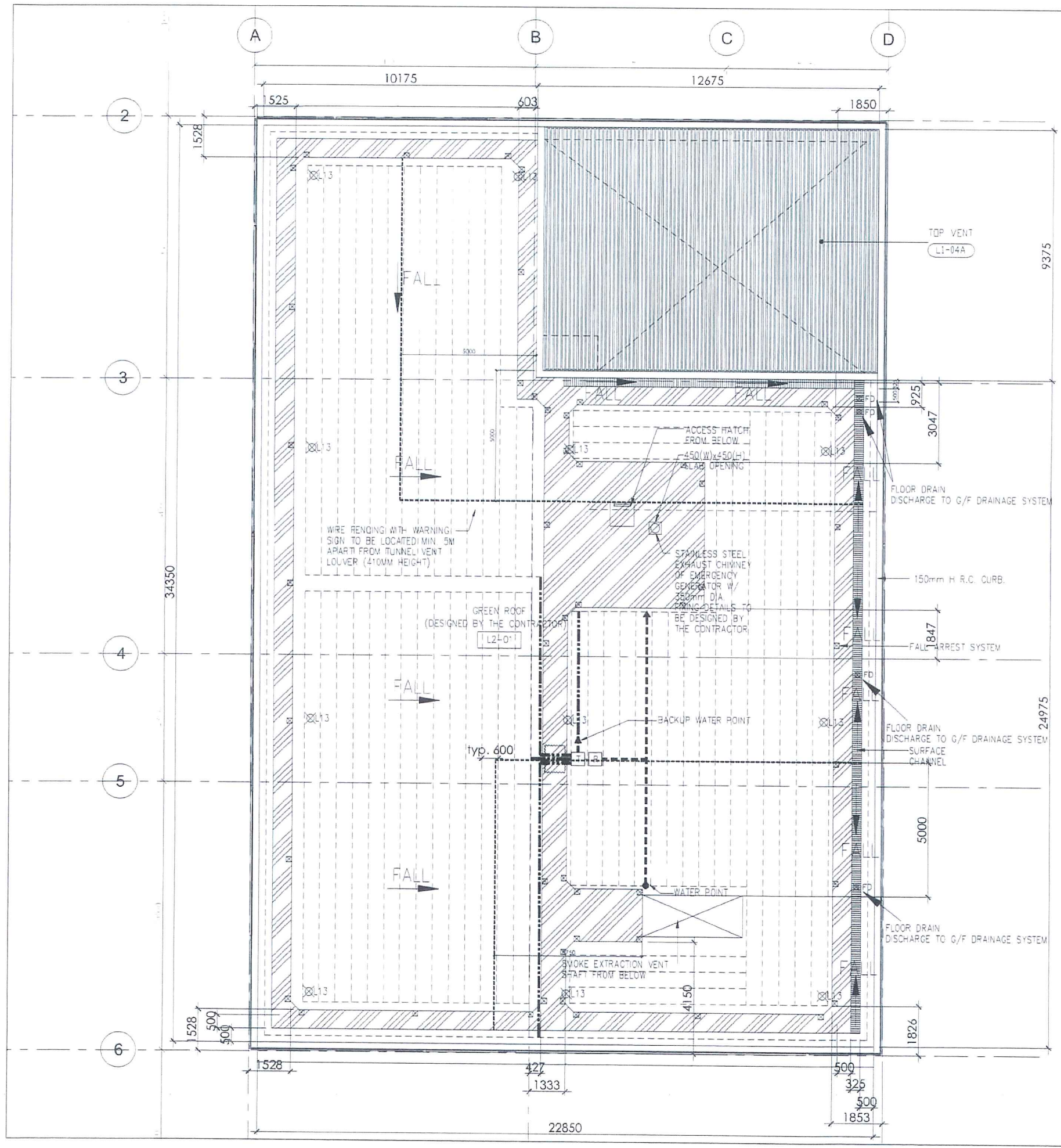
DRAINAGE MAT



EROSION CONTROL MAT WITH 150MM X 150MM CUTTING CROSS FOR PLANTING

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AS-BUILT



- LEGEND**
- WATER POINT
 - ▲ BACKUP WATER POINT
 - ▨ MAINTENANCE PATH
 - - - DRIPLINE
 - UPVC WATER PIPE
 - HOSE
 - ⏰ TIMER
 - ☒ RAIN SENSOR
 - ⊗ FD FLOOR DRAIN
 - ⊗ L13 LIGHTING
 - - - WIRE FENCING (410mm)
 - ⊗ FALL ARREST SYSTEM
 - ▭ PATH RAMP (DETAILS REFER TO APPENDIX B)
 - ▨ 150mm WIDE S.S. PLANTER TRAY
 - ▨ SURFACE CHANNEL

REV.	DESCRIPTION	BY	CHK	DATE

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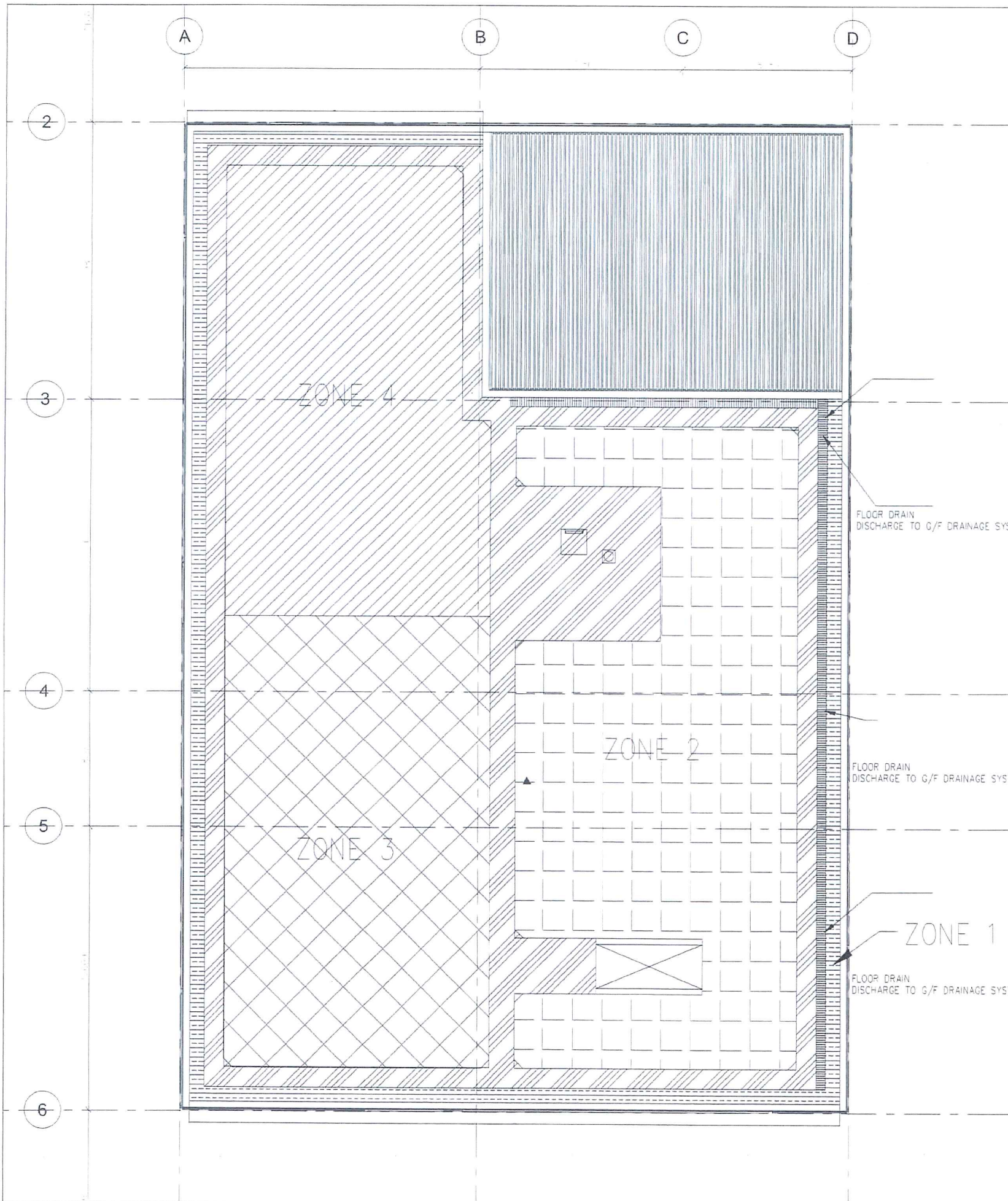
CONTRACTOR

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CONSULTANT LANDSCAPE

DRAWING TITLE
IRRIGATION PLAN

DWG. NO. LD - 03	A
DESIGN BY LA	CONTRACT NO. HY/2011/08
DRAWN BY LA	STATUS
SCALE 1:150@A3	
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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

AS-BUILT

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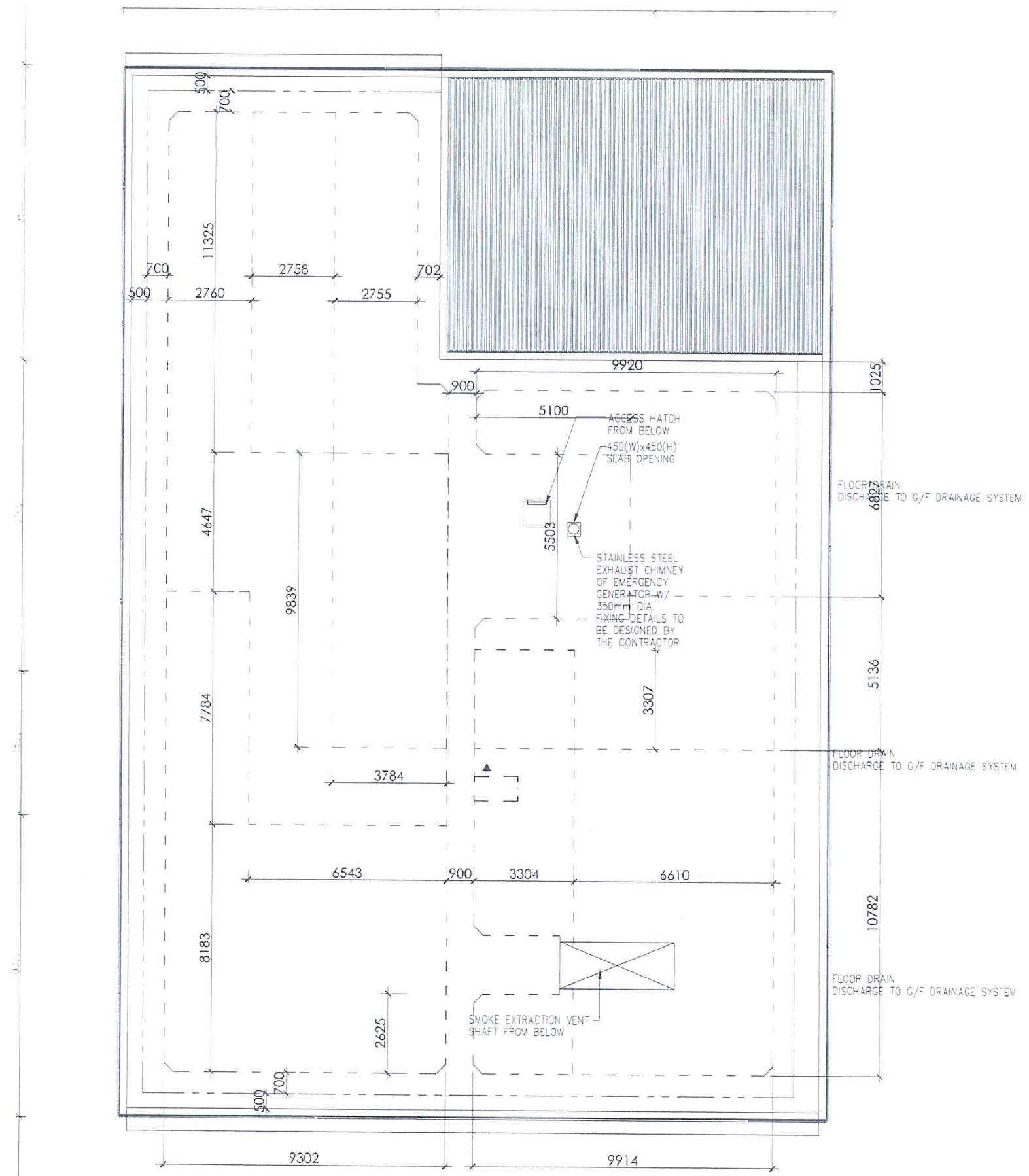
CONSULTANT LANDSCAPE

DRAWING TITLE
ZONING PLAN FOR IRRIGATION

DWG. NO. LD - 03-1 A

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

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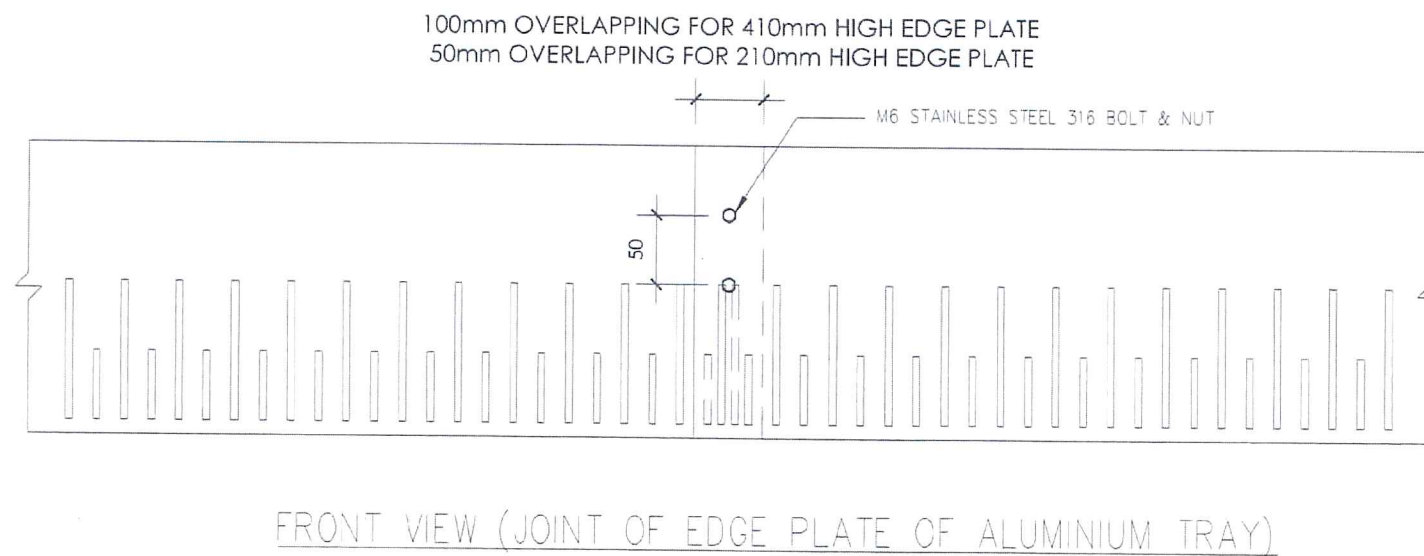
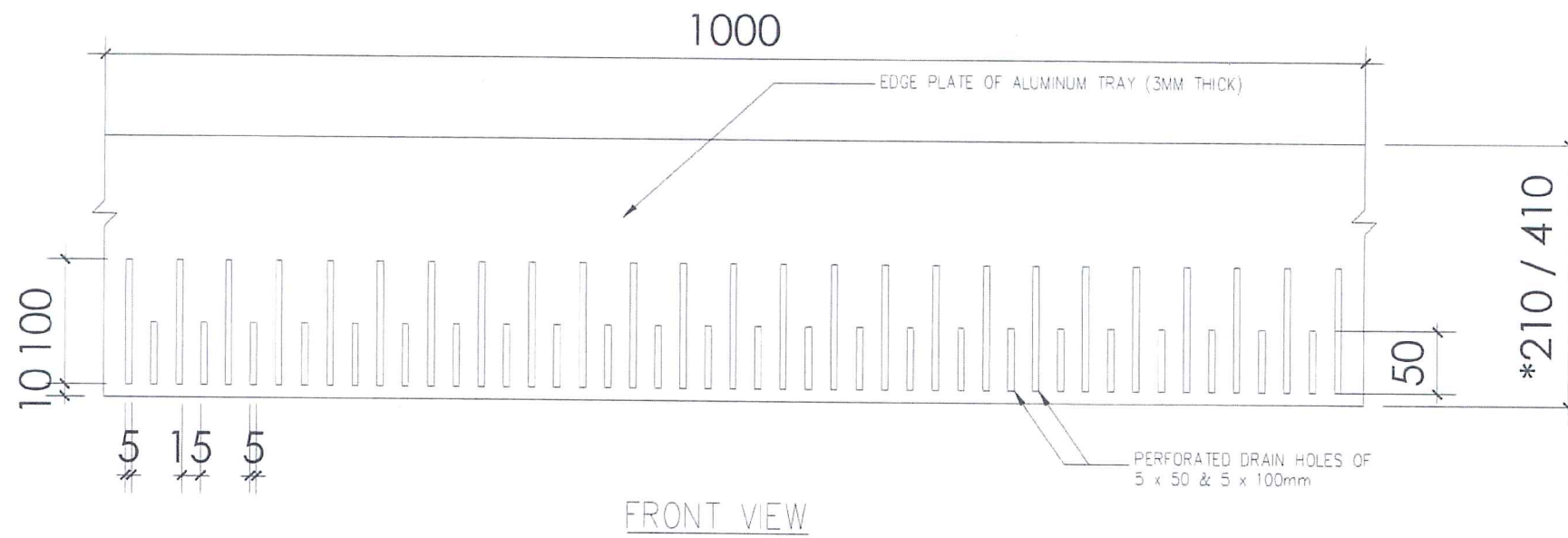
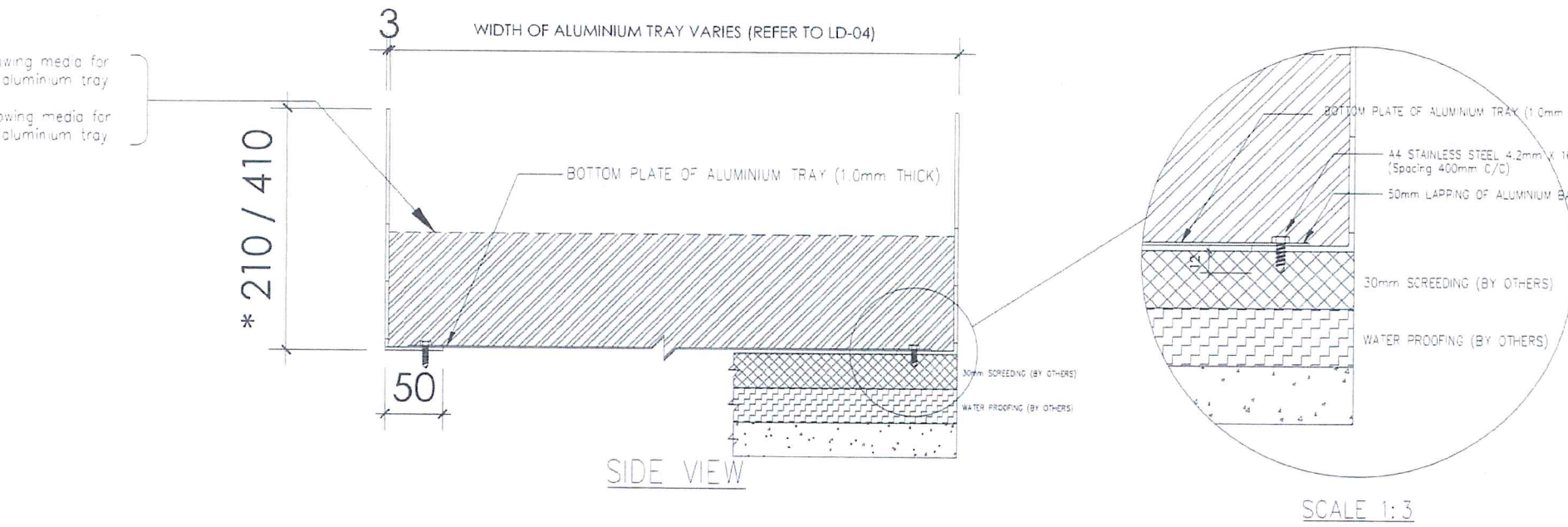
DRAWING TITLE
ALUMINUM EDGE PLAN

DWG. NO. LD - 04 A

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DRAWN BY LA	SCALE 1:150@A3	

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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



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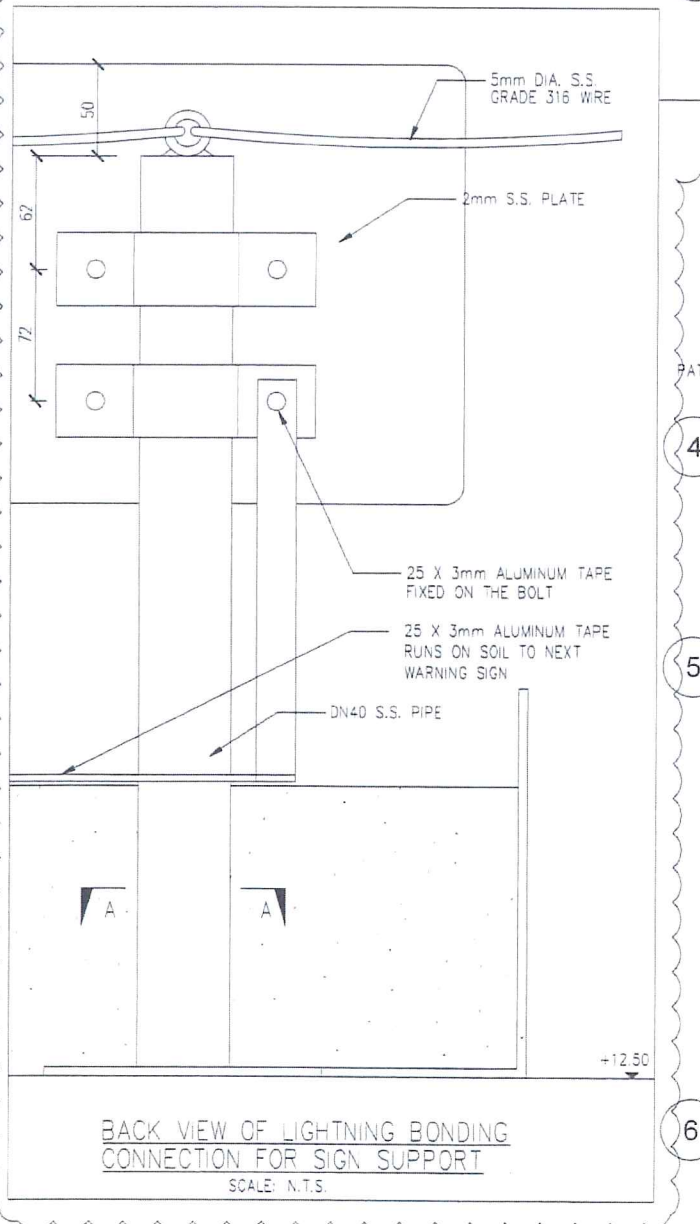
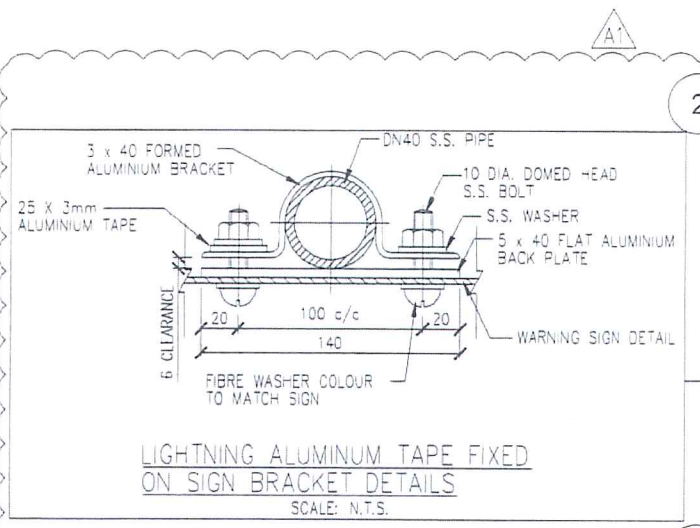
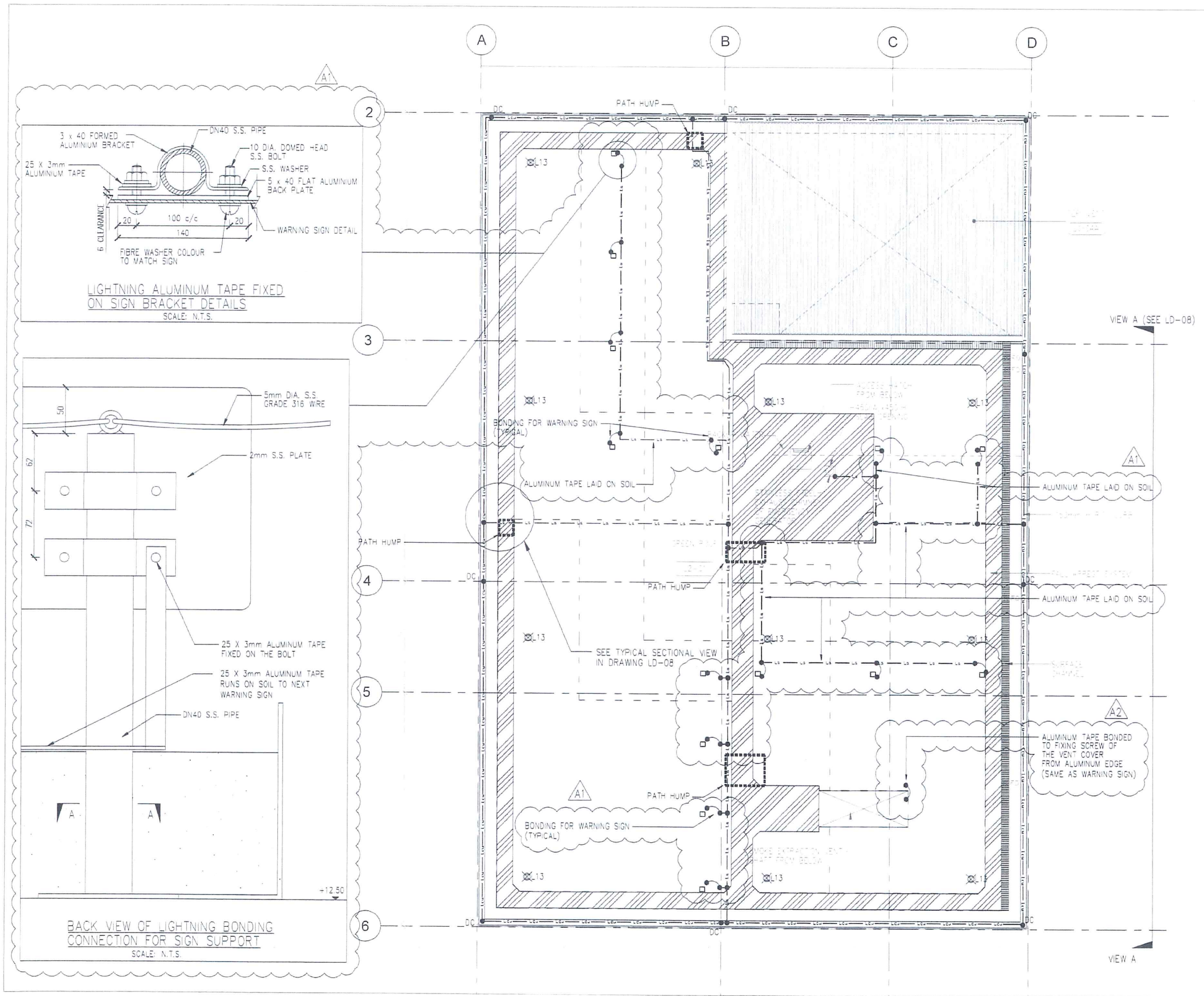
CONSULTANT LANDSCAPE

DRAWING TITLE
ALUMINIUM TRAY DETAIL

DWG. NO. LD-05 A

DESIGN BY LA	CONTRACT NO. HY/2011/08	APPROVED BY
DRAWN BY LA	DATE	
SCALE 1:5@A3	PROJECT	

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- LEGEND:**
- Leu - Leu - 25X3mm TINNED COPPER TAPE
 - La - La - 25X3mm BARE ALUMINIUM TAPE

- NOTES:**
1. PROPRIETARY BIMETALLIC CONNECTORS ARE PROVIDED FOR CONNECTION BETWEEN TINNED COPPER TAPE AND BARE ALUMINIUM TAPE
 2. 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

A	REVISED FOR APPROVAL	AUG'18
-	FIRST SUBMISSION AS PER MEETING 11 MAY 18	MAY'18
REV.	DESCRIPTION	BY DATE

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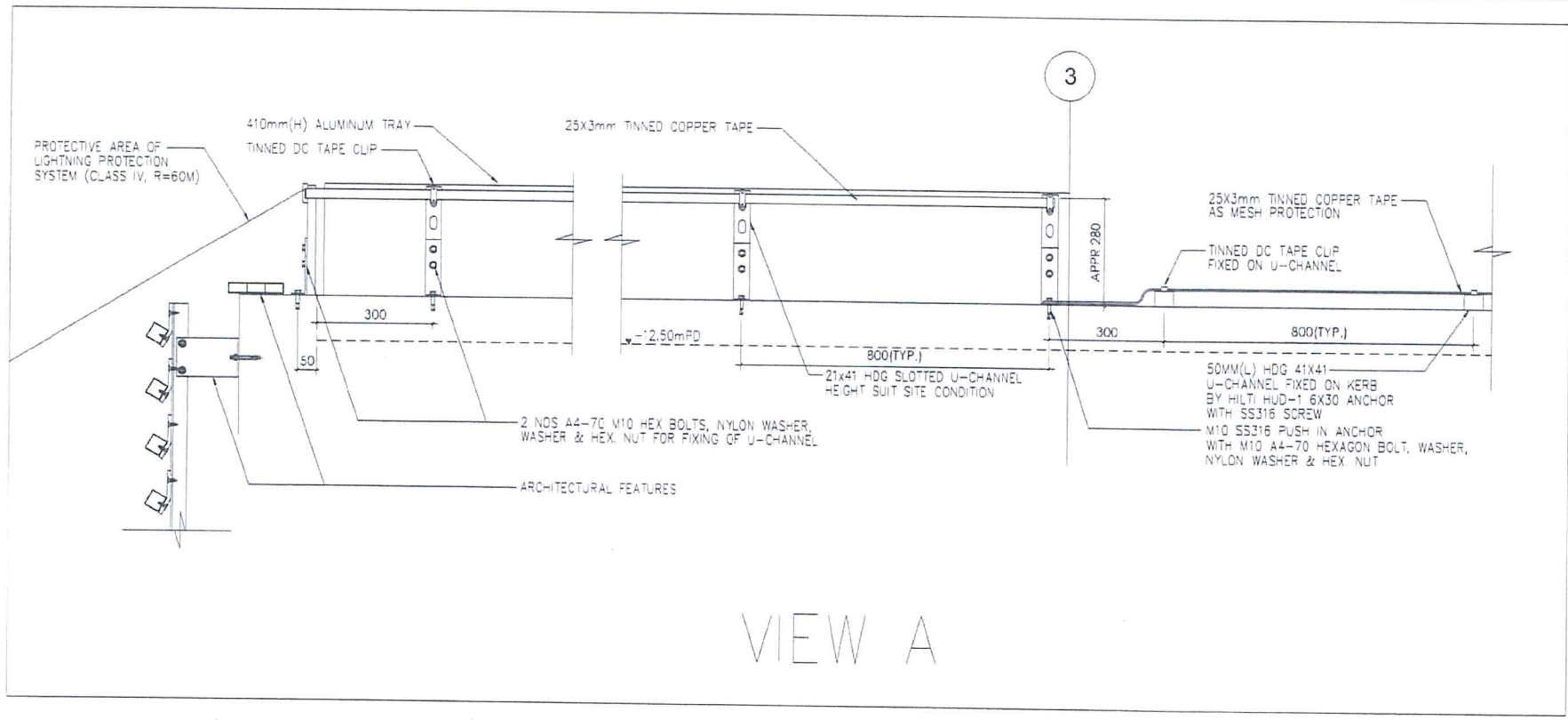
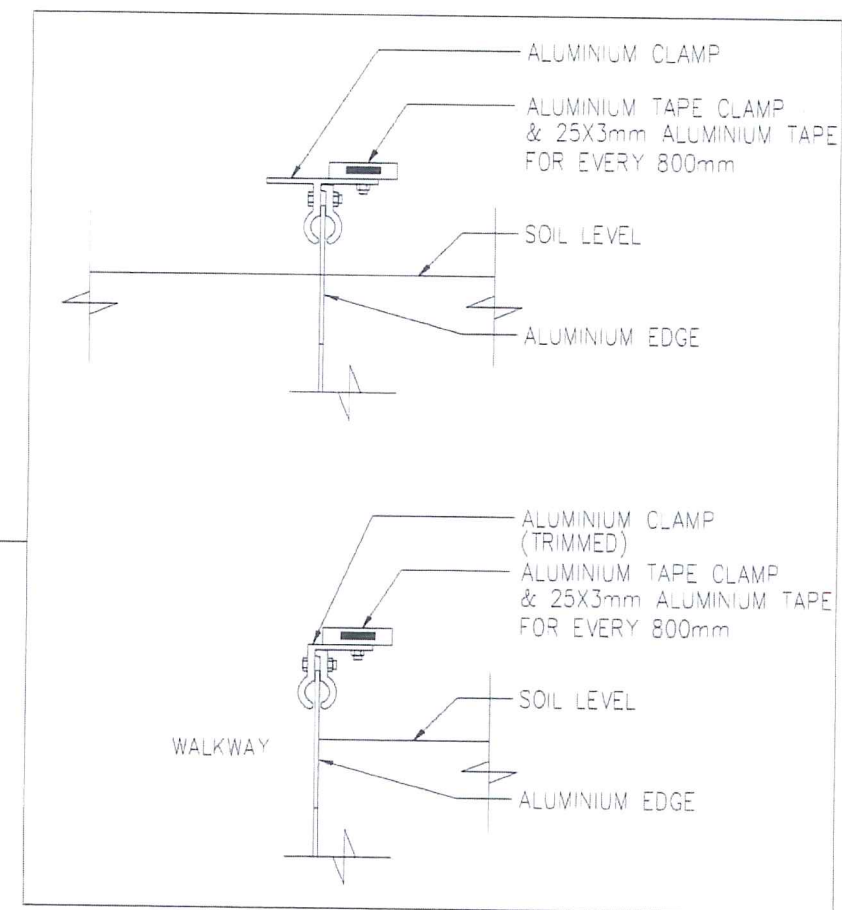
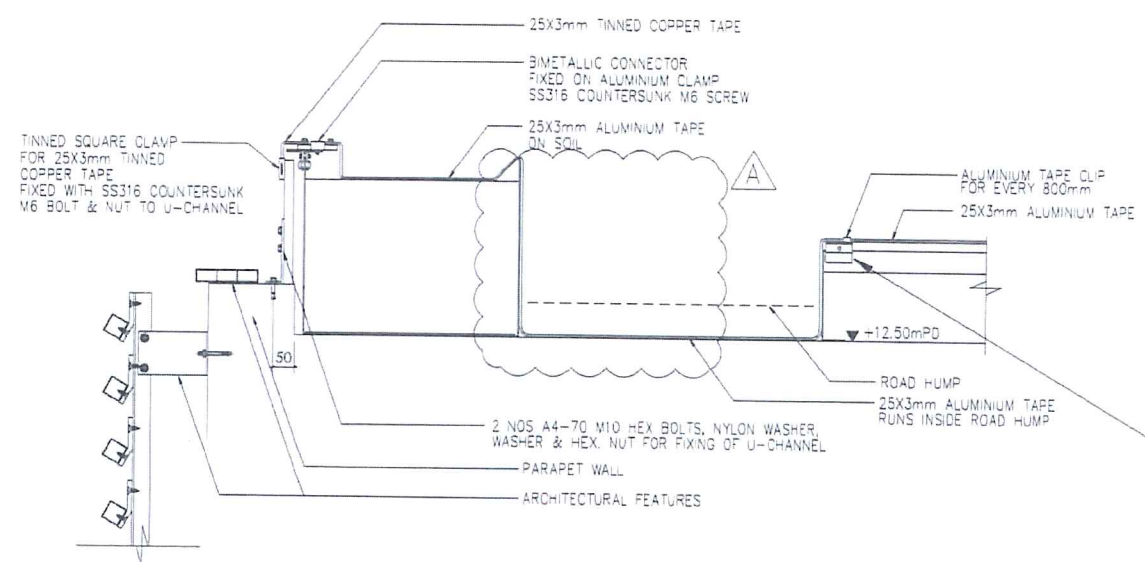
CONTRACTOR
LEIGHTON
LEIGHTON JOINT VENTURE

CONSULTANT LANDSCAPE

DRAWING TITLE
LIGHTNING PROTECTION LAYOUT PLAN ON GREEN ROOF

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DESIGN BY	LA	APPROVED BY
DRAWN BY	LA	DATE
SCALE	1:150@A3	

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VIEW A

AS-BUILT

REV	DESCRIPTION	BY	CHKD	DATE
A	REVISED AS PER COORDINATION			AUG08
-	FIRST SUBMISSION AS PER MEETING 11 MAY 18			MAY18

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LEIGHTON
LEIGHTON JOINT VENTURE

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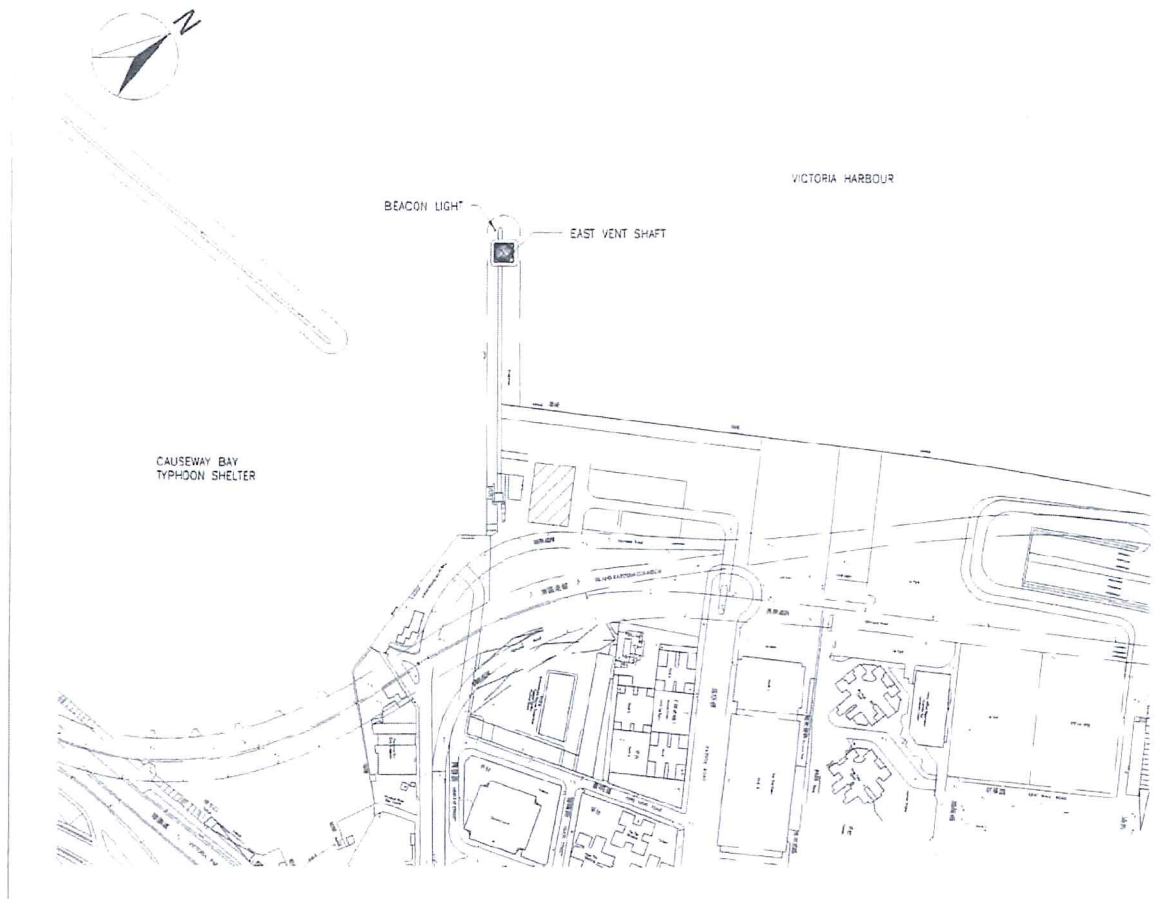
DRAWING TITLE
LIGHTNING PROTECTION LAYOUT PLAN ON GREEN ROOF

DWG. NO.	LD - 08	A
DESIGN BY	LA	CONTRACT NO.
DRAWN BY	LA	HY/2011/08
SCALE	1:150@A3	STATUS
CHECKED BY	VILLUMETERS	© COPYRIGHT RESERVED

East Ventilation Shaft

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
- 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.

FOR CONSTRUCTION

FOR CONSTRUCTION

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	

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

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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

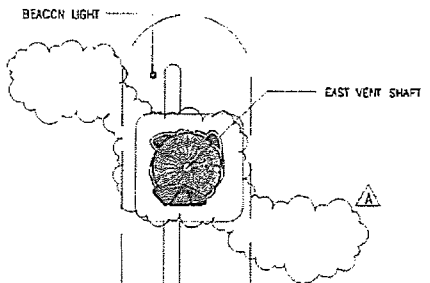
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TUNNEL BUILDINGS, SYSTEMS AND FITTINGS,
AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING
EAST VENT SHAFT
LOCATION PLAN

AECOM

DRG NO. 60095653/RW/7901 B
圖紙編號

DESIGNED BY CHW	CONTRACT NO. HY/2011/08	APPROVED BY ALCF
DRAWN BY ERL	STATUS WORKING DRAWING	
SCALE AS SHOWN @A1	© COPYRIGHT RESERVED 版權所有	

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VICTORIA HARBOUR

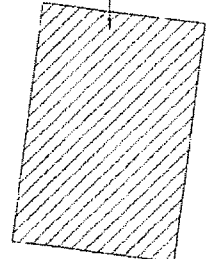
CAUSEWAY BAY TYPHOON SHELTER

HVM

Breakwater

Seawall

EAST VENTILATION BUILDING



Car Park

Sand Depot

Car Park

Three Lo Yan Road, Shatin

Highway

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
0	1	WORKING DRAWING	MAR 14
1	2	TENDER ADDENDUM NO.1	JUN 13
2	3	TENDER DRAWING	MAY 13

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CENTRAL - WAN CHAI BYPASS AND IEC LINK

PWP ITEM NO. 579 TH
工務計劃項目編號

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AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING
EAST VENT SHAFT
OVERALL PLAN

AECOM

DRG. NO. 60095653/RW/7902 B
圖號

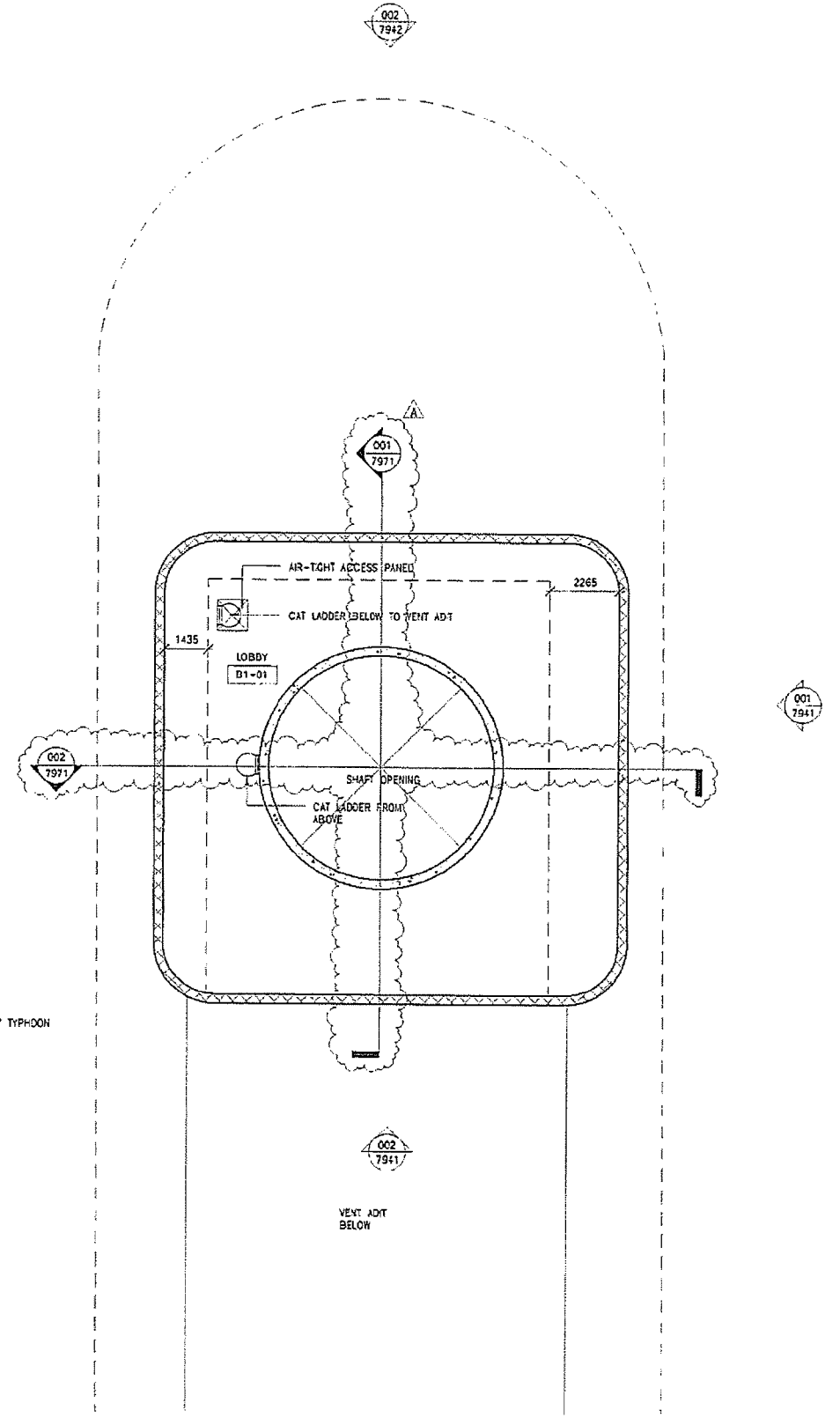
DESIGNED BY CHW	CONTRACT NO. HY/2011/08	APPROVED BY CHW
DRAWN BY ERL	SCALE AS SHOWN GA1	DATE MAY 13
WORKING DRAWING		
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001 OVERALL PLAN

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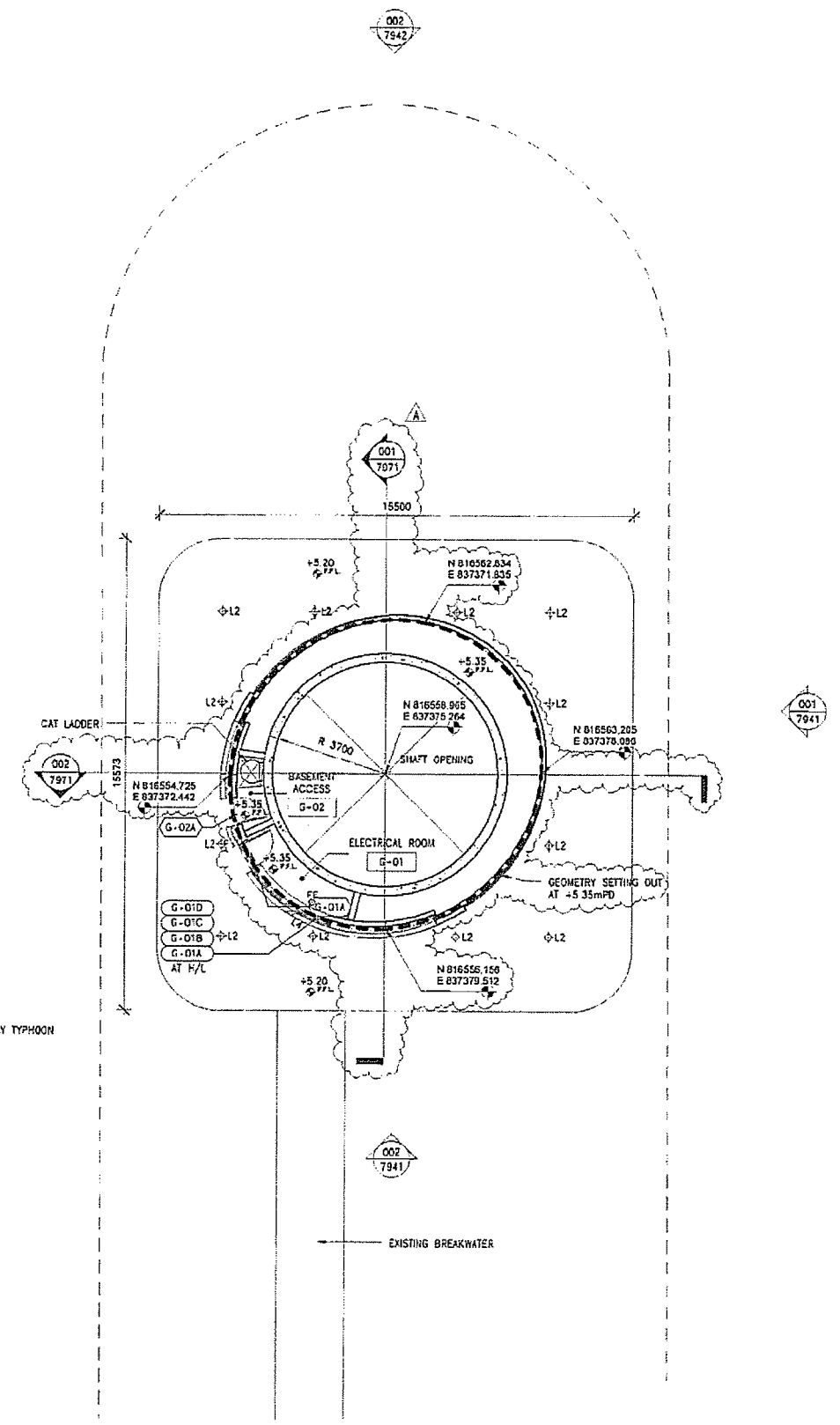
CAUSEWAY BAY TYPHOON SHELTER



001 LEVEL BASEMENT

SCALE 1 : 100

CAUSEWAY BAY TYPHOON SHELTER



002 GROUND PLAN

SCALE 1 : 100

NOTES:

- 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

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	CHK

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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

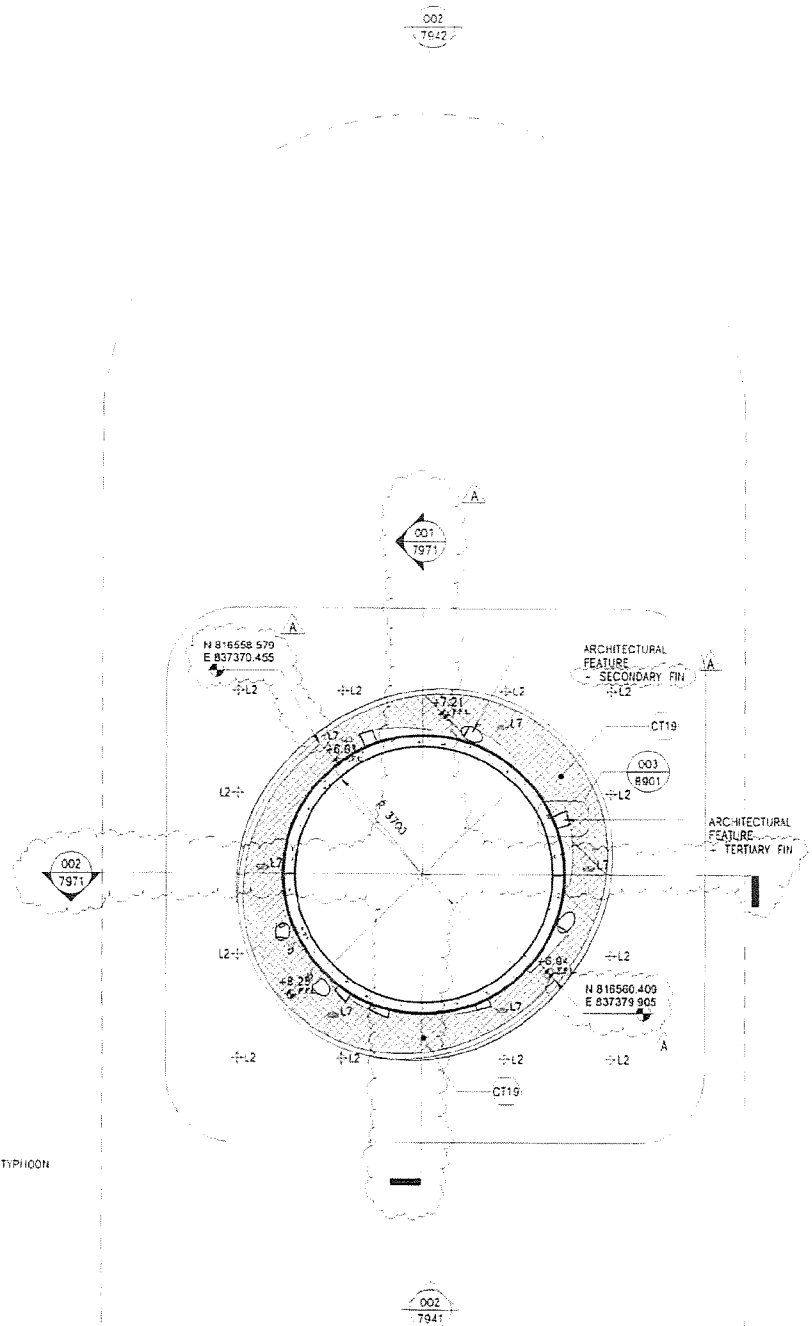
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圖紙編號

DESIGNED BY CHW	CONTRACT NO. HY/2011/06	AP'D BY APPROVED CHW
DRAWN BY ERL	STATUS AS SHOWN	DATE G11

WORKING DRAWING

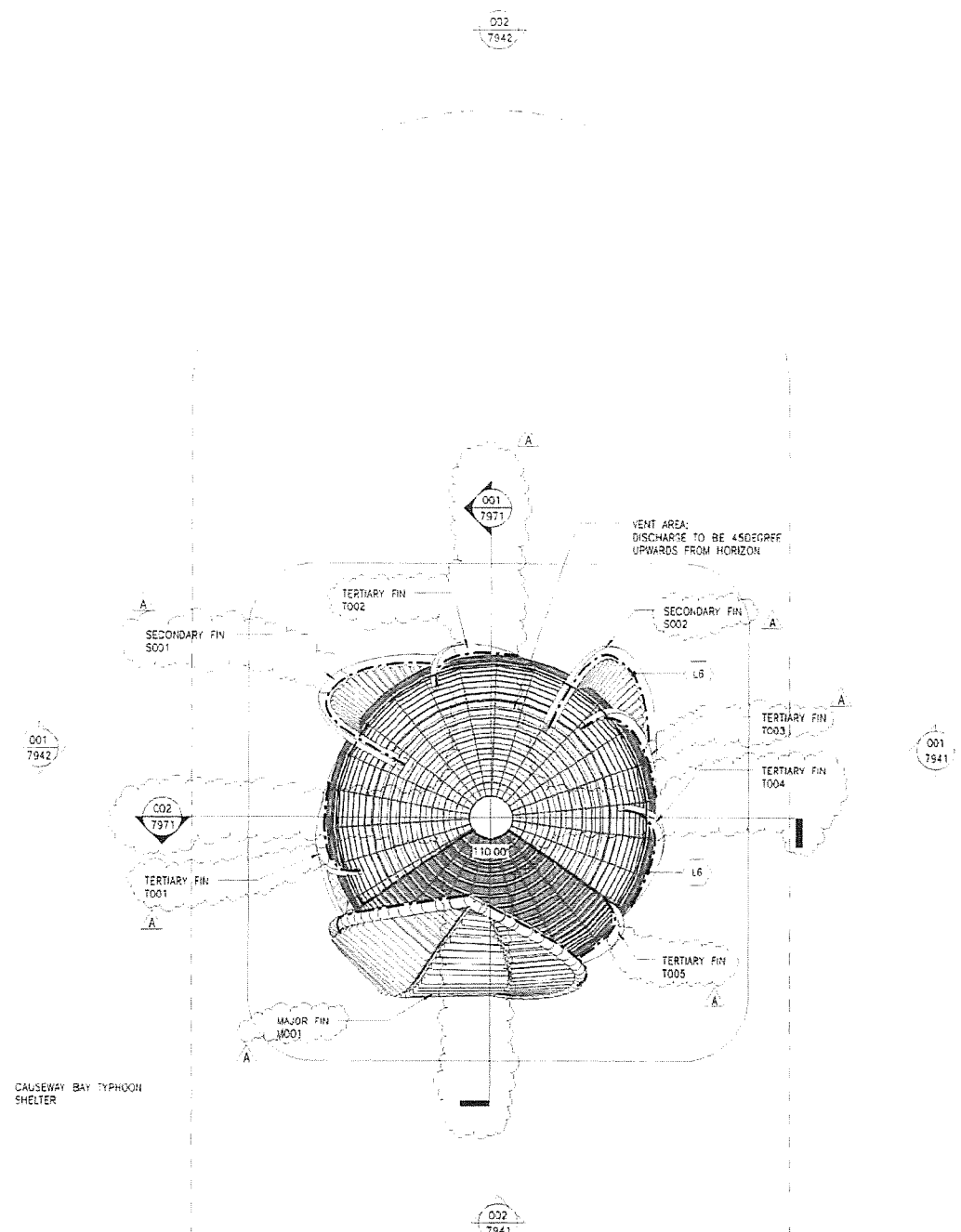
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001 LEVEL ROOF (BASE)

SCALE 1 : 100



002 LEVEL ROOF (SHAFT)

SCALE 1 : 100

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	CHK	ALCF	MAR 14
A	TENDER ADDENDUM NO.1	CHK	ALCF	JUN 13
-	TENDER DRAWING	CHK	ALCF	MAY 13
REV	DESCRIPTION	BY	DATE	SCALE
001				

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

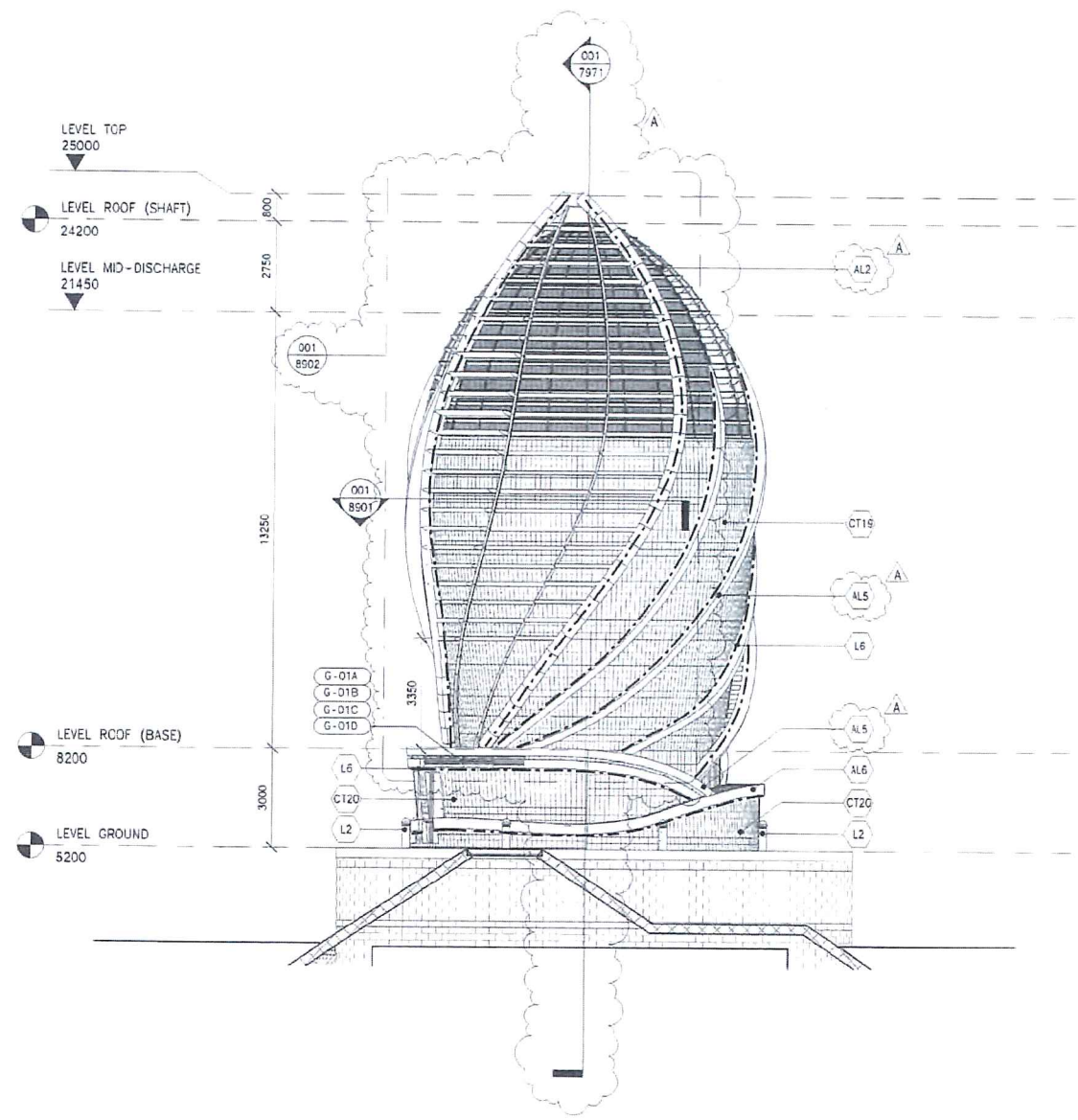
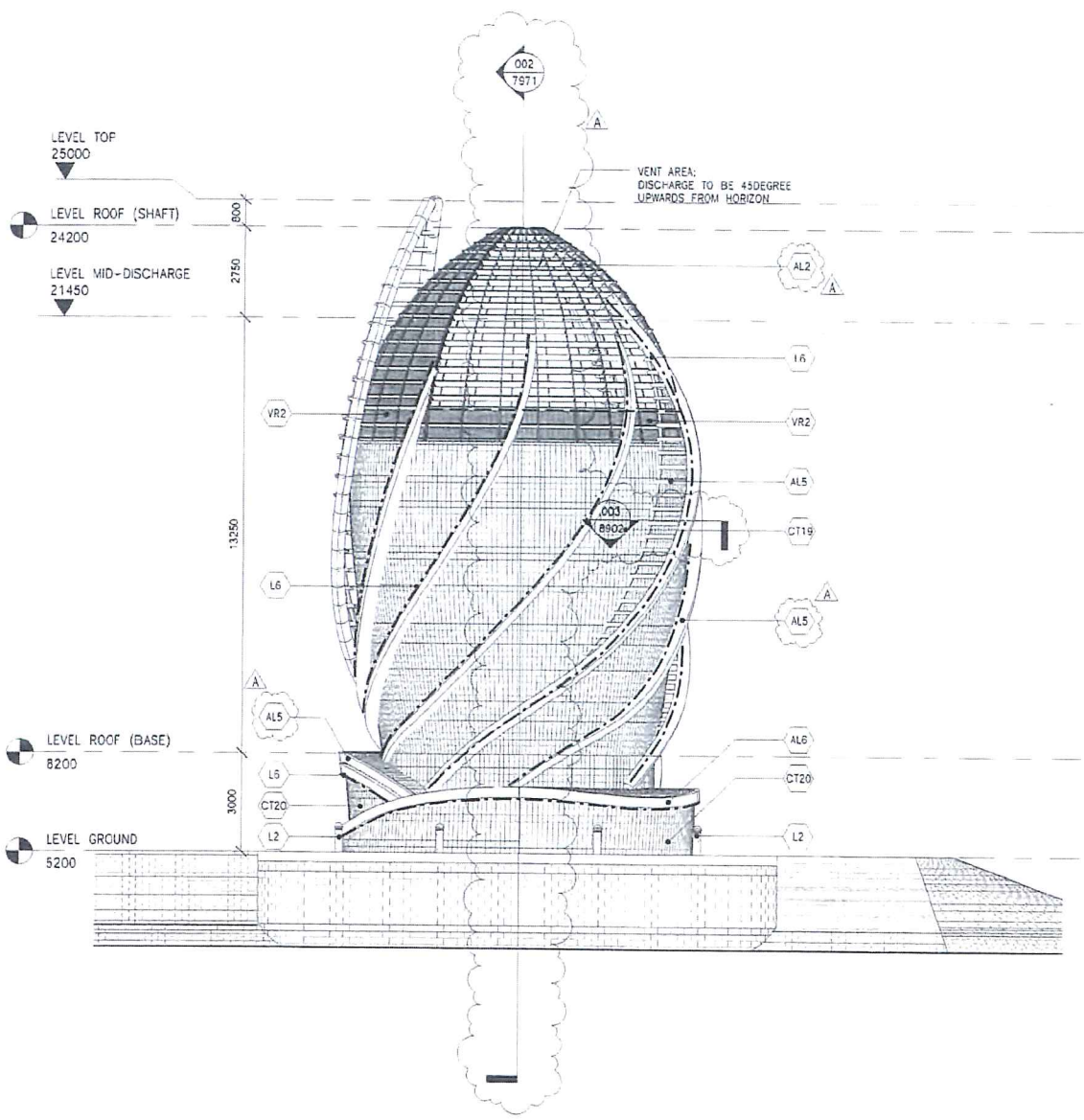
CENTRAL - WAN CHAI BYPASS -
 TUNNEL BUILDINGS, SYSTEMS AND FITTINGS,
 AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING
 EAST VENT SHAFT
 LEVEL ROOF (BASE) & ROOF (SHAFT)

AECOM

DRG. NO. 60095653/RW/7912B
 圖紙編號

DESIGNED BY CHW CONTRACT NO. HY/2011/05
 DRAWN BY ERL STATUS WORKING DRAWING
 SCALE AS SHOWN 6A1

DATE OF APPROVAL 05/13
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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
 工務計劃項目編號

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
 DRAWN BY ERL STATUS WORKING DRAWING

SCALE AS SHOWN 圖尺 MILLIMETERS
 圖紙比例 圖尺 毫米

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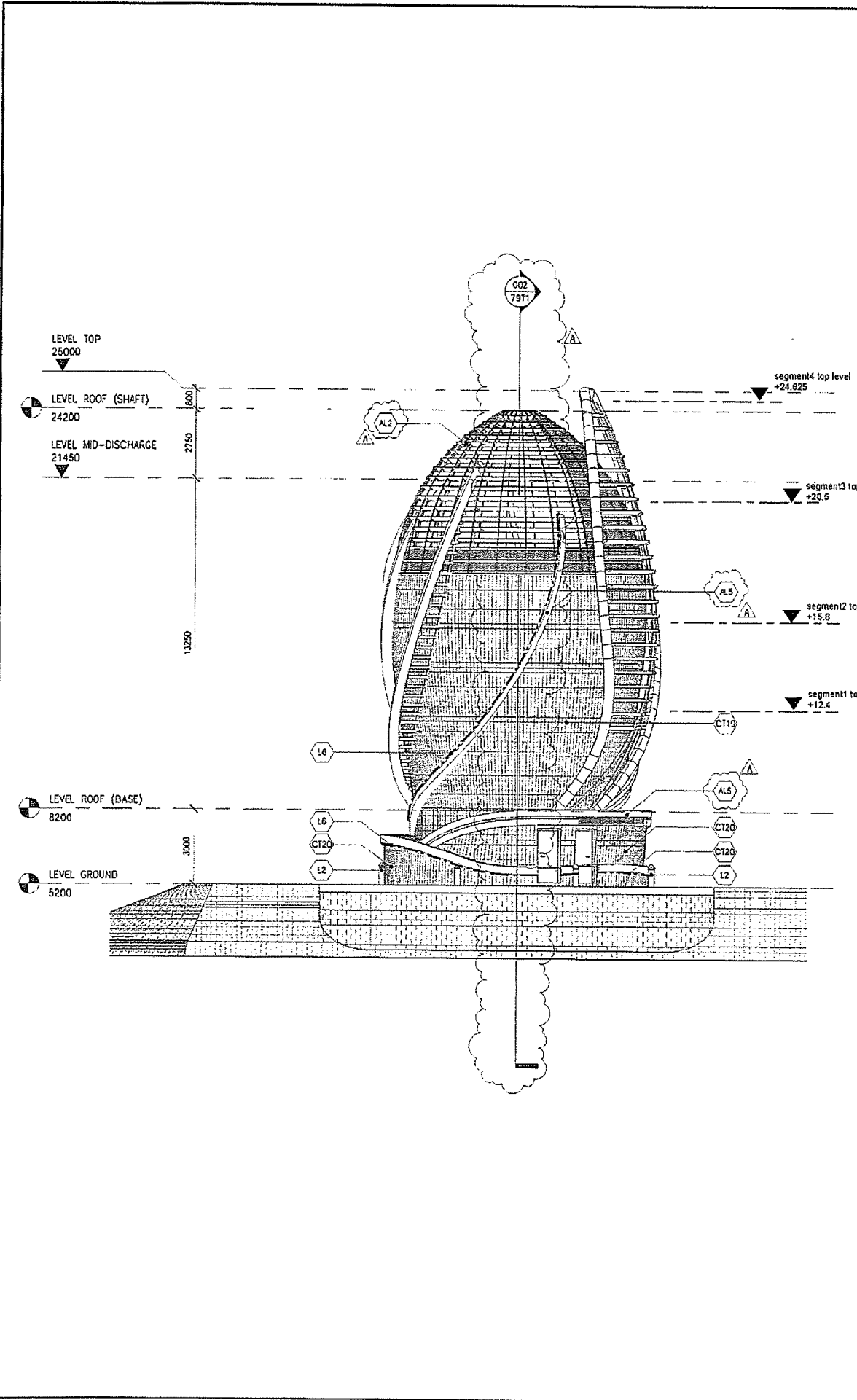
001 EAST ELEVATION

SCALE 1 : 100

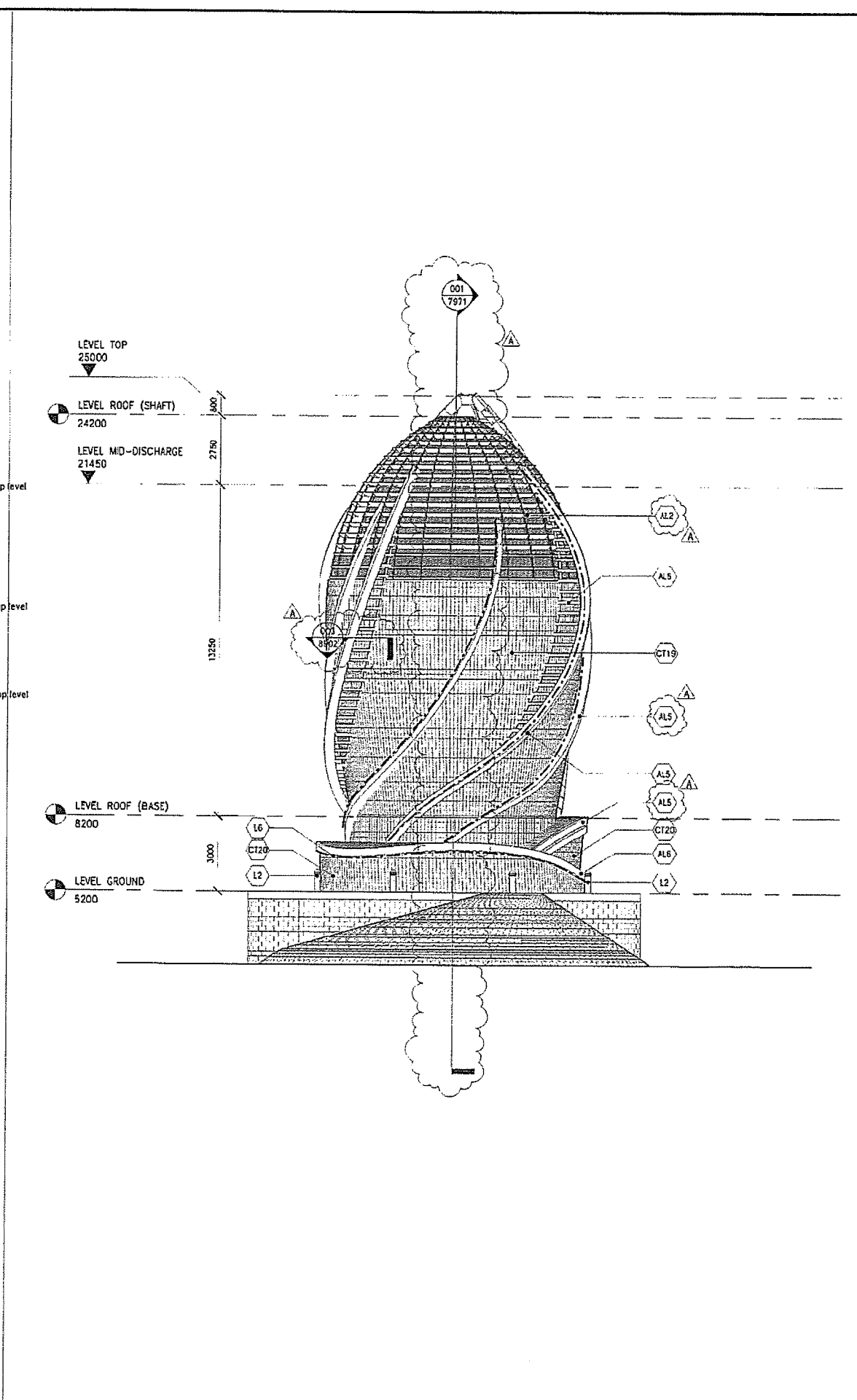
002 SOUTH ELEVATION

SCALE 1 : 100

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001 WEST ELEVATION



002 NORTH ELEVATION

SCALE 1 : 100

SCALE 1 : 100

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
REV	DESCRIPTION	BY	CHKD	DATE
001				

Highways Department 路政署
 Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

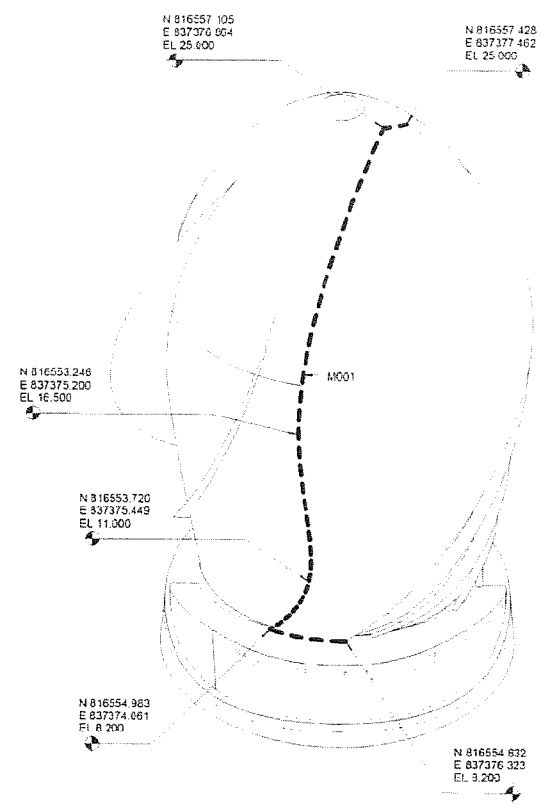
PWP ITEM NO. 579 TH
 工務計劃項目編號

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

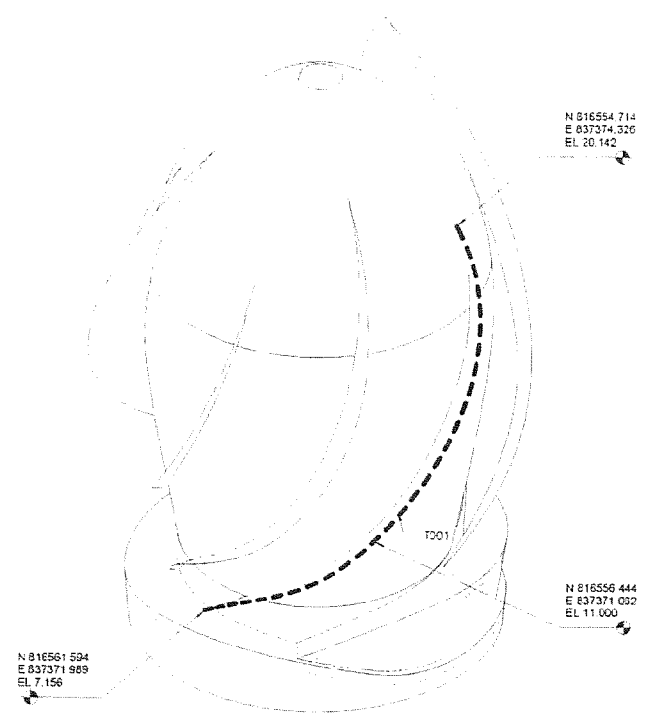
AECOM

DRG. NO. 圖紙編號	60095653/RW/7942B		
DESIGNED BY 設計	CHW	CONTRACT NO. 合約號	HY2011/08
APPROVED BY 校核	ERL	AP BY APPROVED B.A.A.	CHW
STATUS 圖紙狀態	WORKING DRAWING		
SCALE 比例	AS SHOWN 0A1		
DIMENSIONS 尺寸	IN MILLIMETERS		

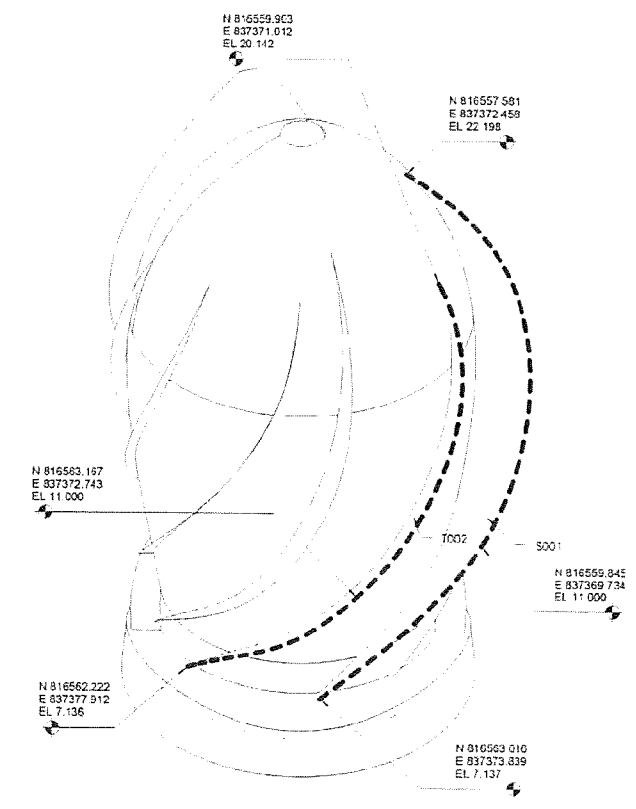
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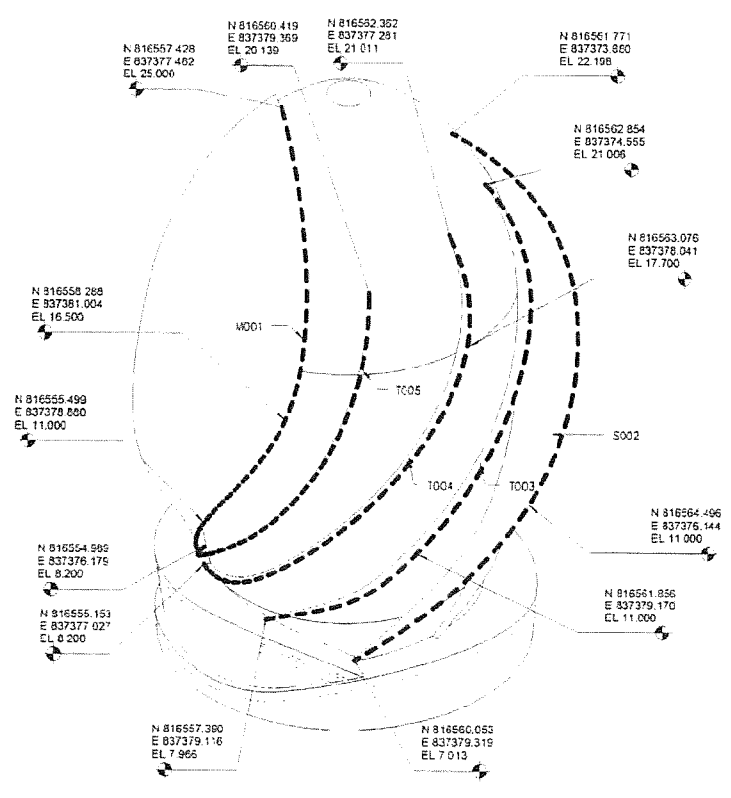
001 AXONOMETRIC : BASE GEOMETRY - SOUTHEAST



002 AXONOMETRIC : BASE GEOMETRY - NORTHWEST



003 AXONOMETRIC : BASE GEOMETRY - NORTHEAST



004 AXONOMETRIC : BASE GEOMETRY - SOUTHEAST

- 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.
 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

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



DRG. NO. 60095653/RW/7961A

圖紙編號

DESIGNED BY: CHW	CHECKED BY: HY/2311/08	APPROVED BY: CHW
DRAWN BY: ERL	STATUS: HY/2311/08	

SCALE: AT 1:100

WORKING DRAWING

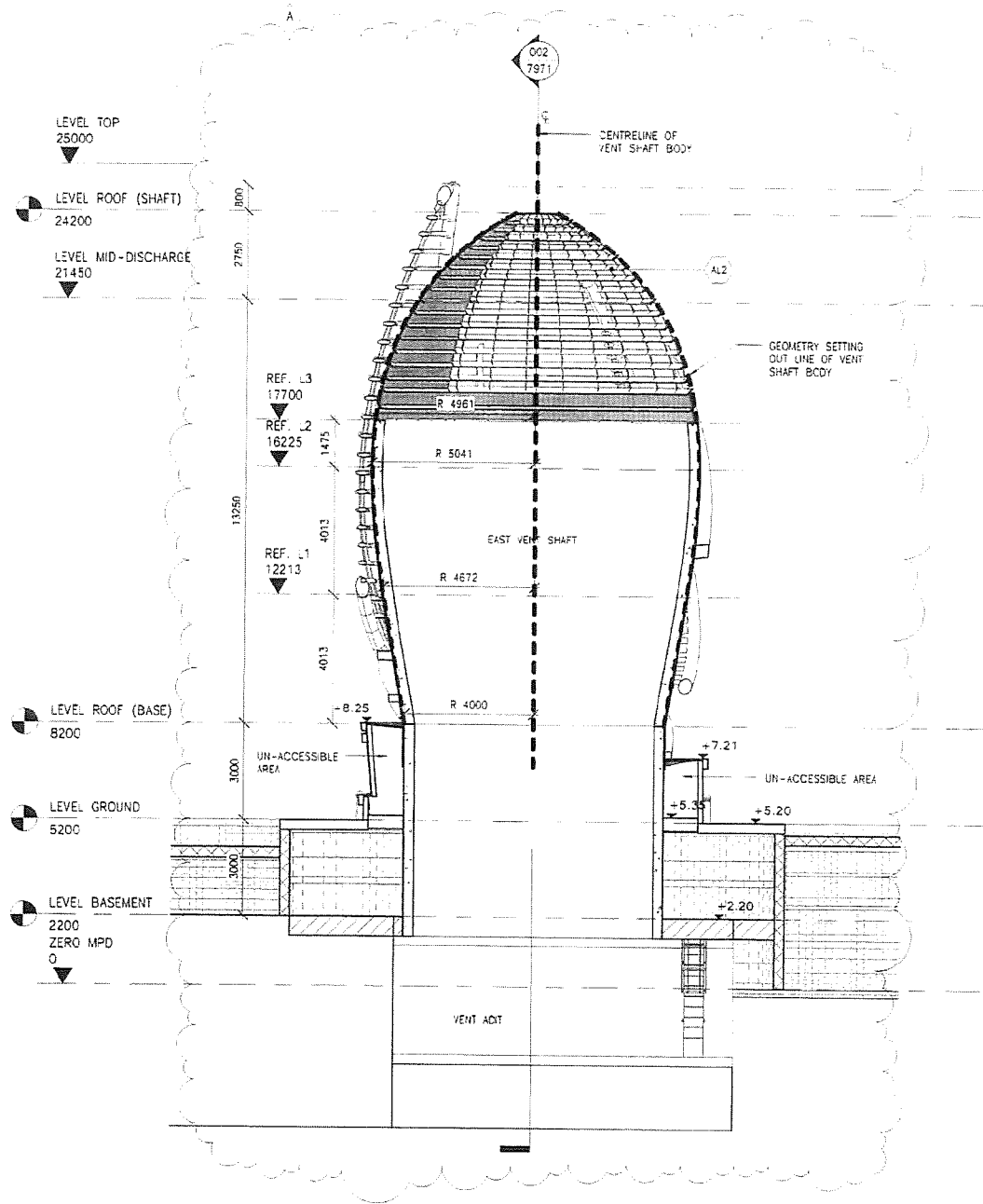
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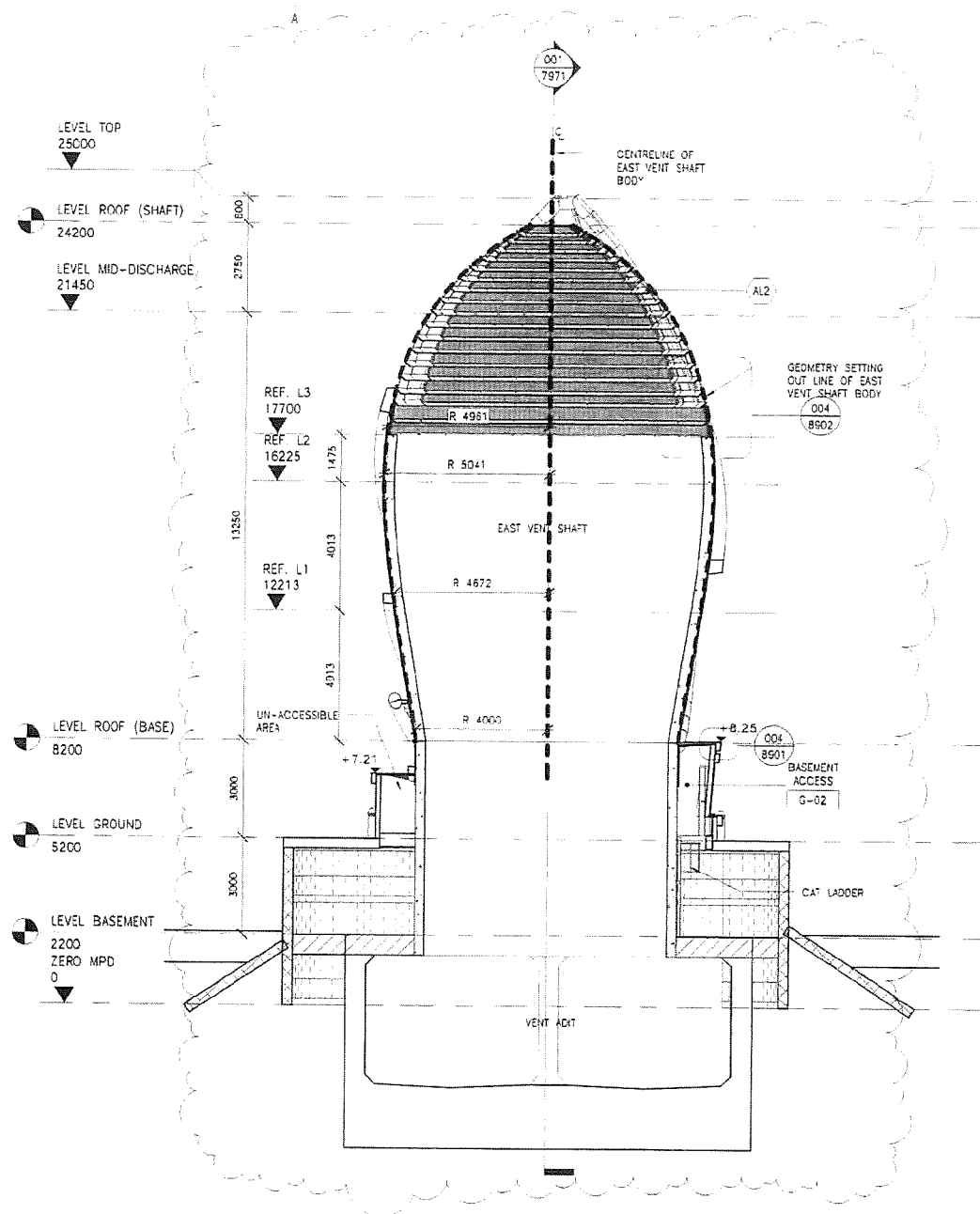
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001 SECTION A-A

SCALE 1 : 100



002 SECTION B-B

SCALE 1 : 100

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

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	CHKD
001	BASEMENT ACCESS			
002	G-02			

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

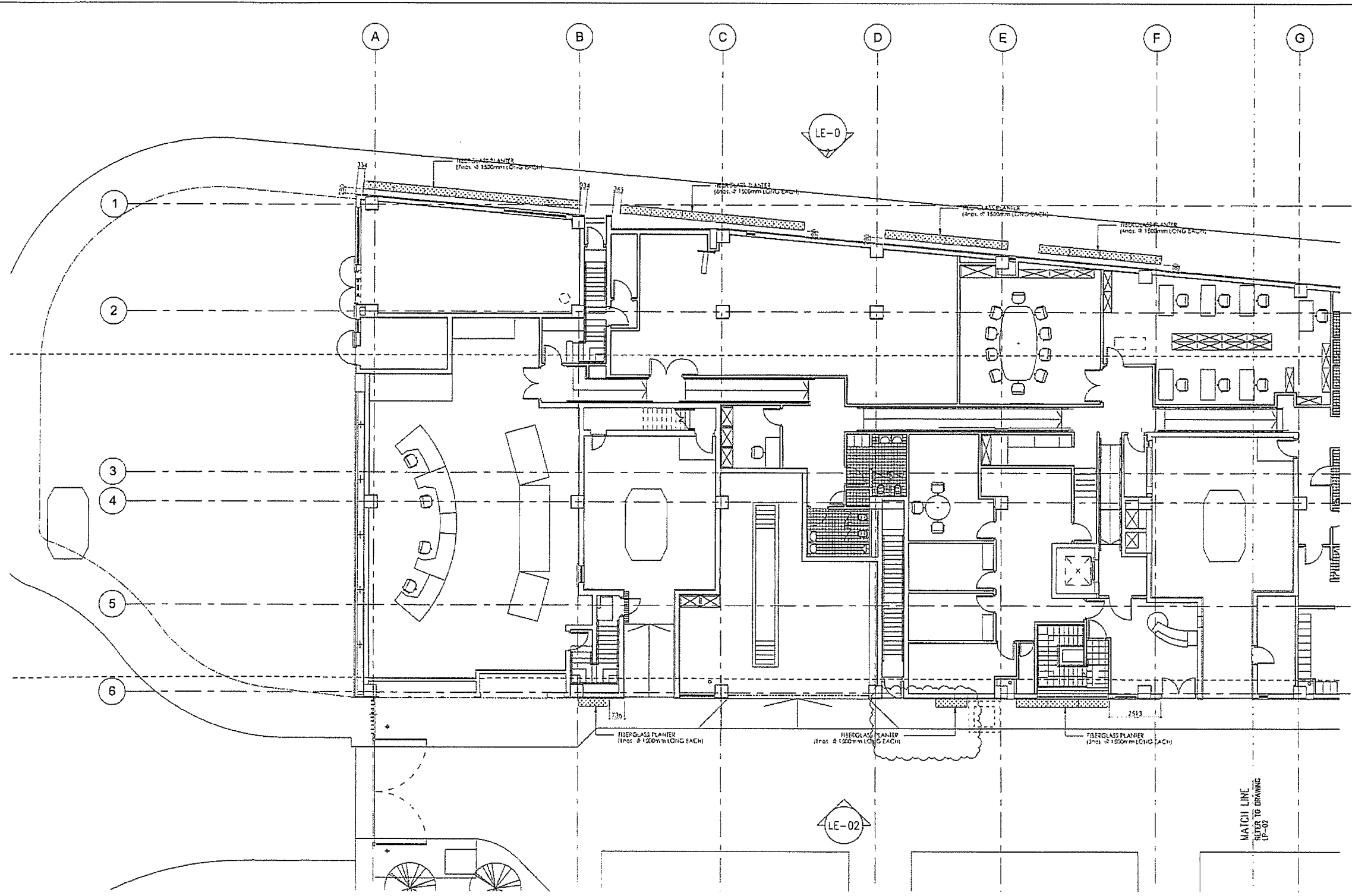
AECOM

DRG NO. 60095653/RW/7971 B
圖紙編號

DESIGNED BY EVL	CHW	CONTRACT NO. HY/2011/008	DATE 8/17/2013
SCALE AS SHOWN @A1	WORKING DRAWING	DATE 8/17/2013	BY CHW

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Administration Building Fibre Glass Planter and Green Wall



LEGEND

 FIBERGLASS PLANTER

AS-BUILT

REV	DESCRIPTION	BY	DATE
A	As-fitted	-	- 21
		CHECKED	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
FIBER GLASS PLANTER PLAN-1

DWG. NO. LP-01-ADB		REV.
DESIGN BY DY	CONTRACT NO. M1/2011/GS	APPROVED BY
DRAWN BY DY	STATUS	
SCALE 1:200@A3		
DIMENSIONS ARE IN MILLIMETERS 尺寸单位为毫米		

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AS-BUILT

E 837847.378
N 816830.144
E 837847.957
N 816828.493
E 837849.340
N 816827.340

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

Highways Department 路政署
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEG 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
LEIGHTON JOINT VENTURE

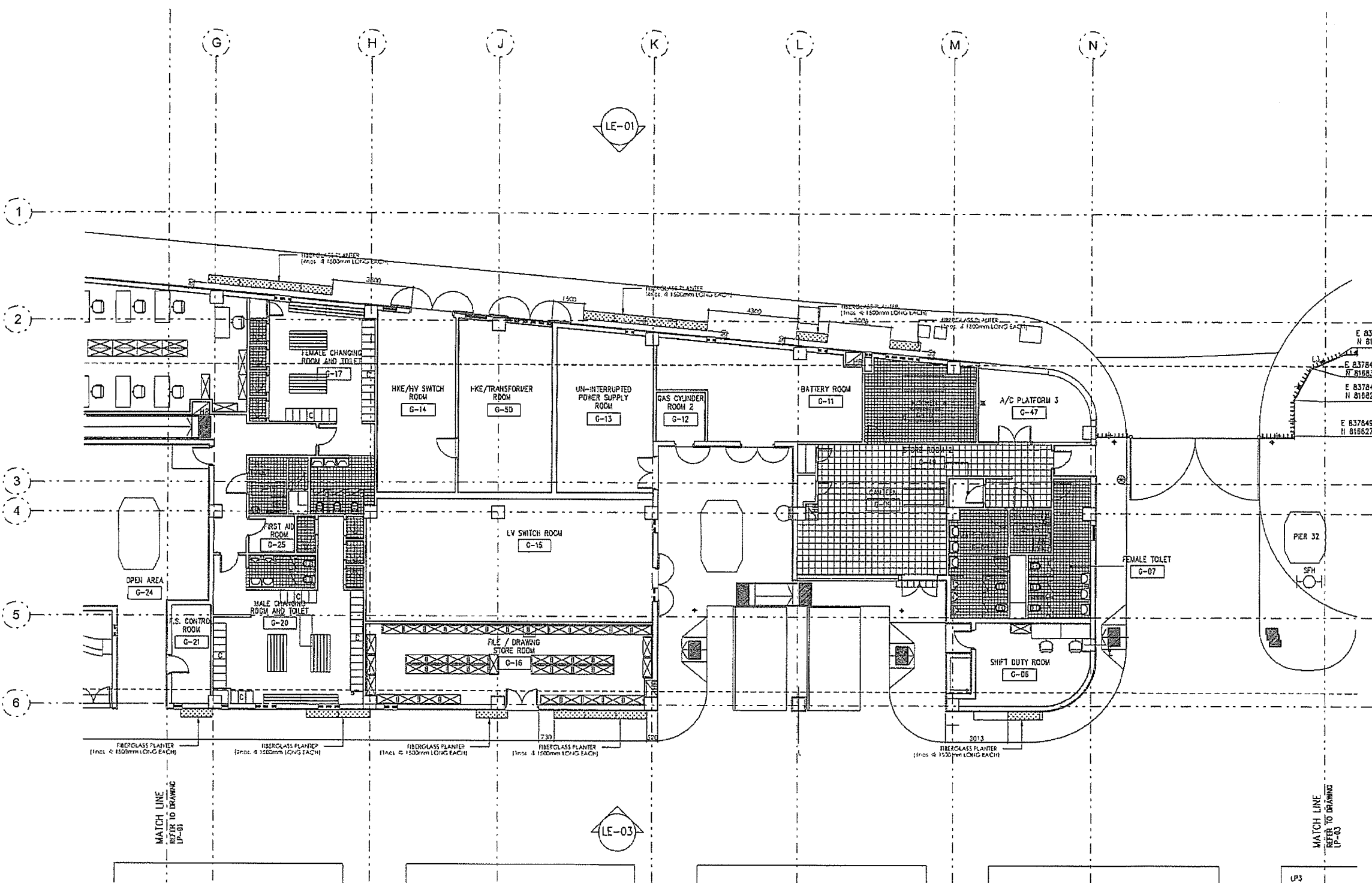
CONSULTANT LANDSCAPE

DRAWING TITLE
FIBER GLASS PLANTER PLAN-2

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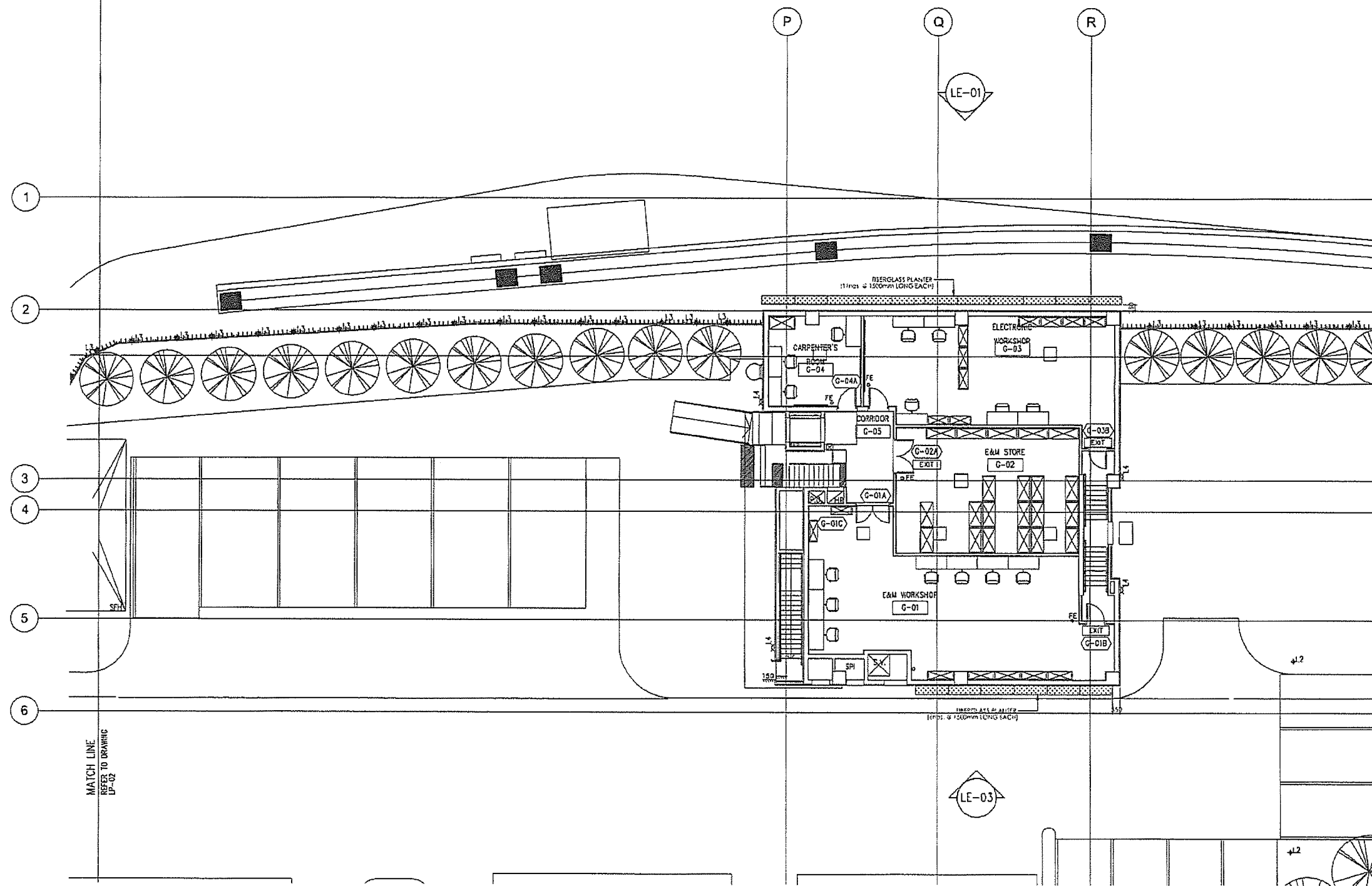
DESIGN BY DY	CHECKED BY DY	DATE 11/2011/08	APPROVED BY
SCALE 1:200@A3	SHEET NO.		

UNITS: METERS
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LEGEND

 FIBERGLASS PLANTER

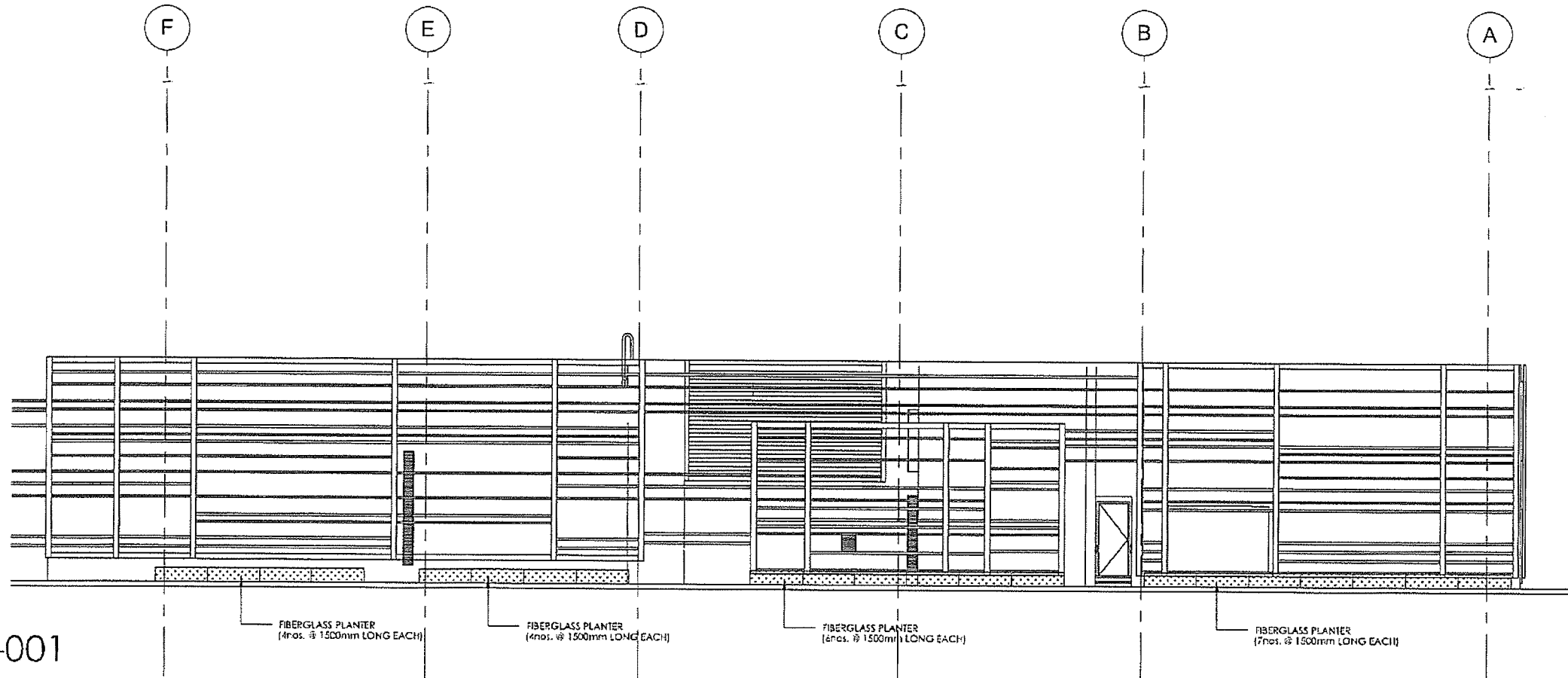


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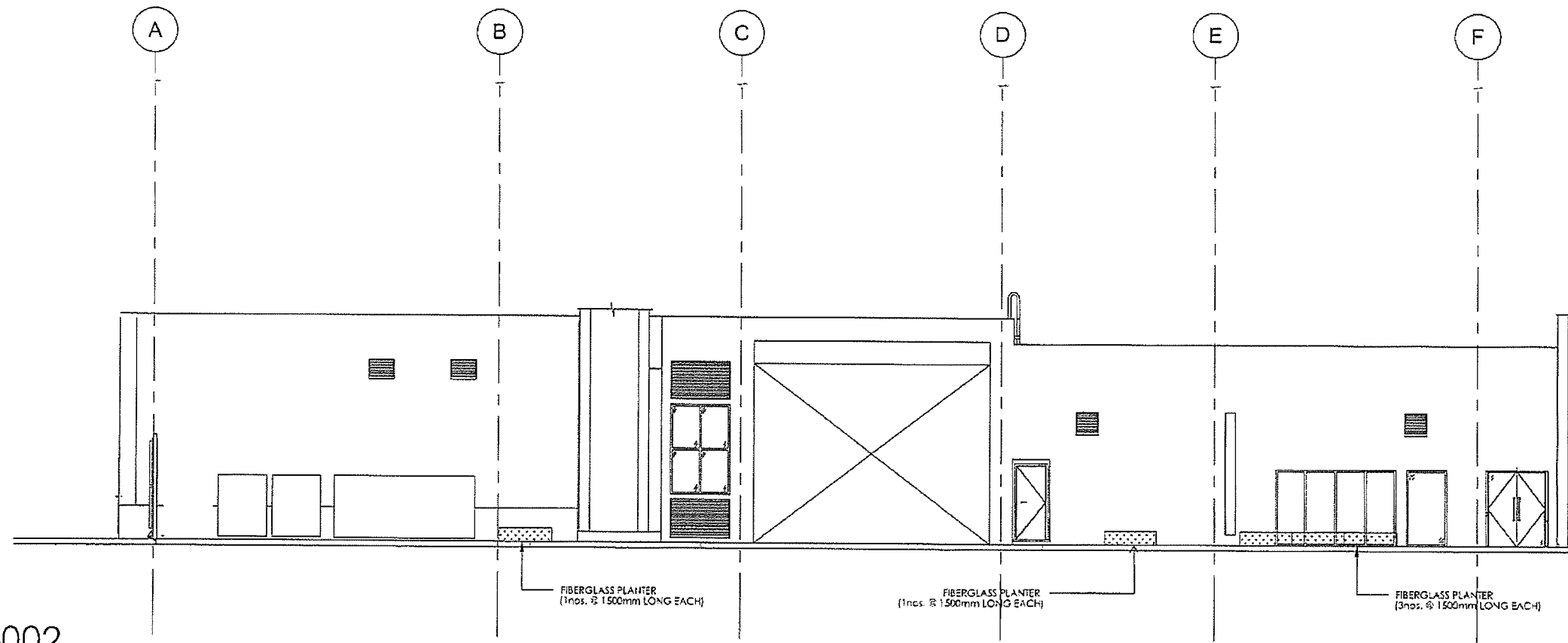
LEGEND

 FIBERGLASS PLANTER

REV.	DESCRIPTION	BY	DATE
A	As-fitted		21/7
<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 LEIGHTON JOINT VENTURE</p> <p>CONSULTANT LANDSCAPE</p> <p>DRAWING TITLE</p> <p>FIBER GLASS PLANTER PLAN-3</p> <p>DWS. NO. LP - 03 - ADB</p> <p>DESIGN BY DY CONTRACT NO. HY/2011/03 APPROVED BY</p> <p>DRAWN BY DY DATE</p> <p>SCALE 1:200@A3</p> <p>DIMENSIONS ARE IN MILLIMETERS © COPYRIGHT RESERVED</p>			



7742-001



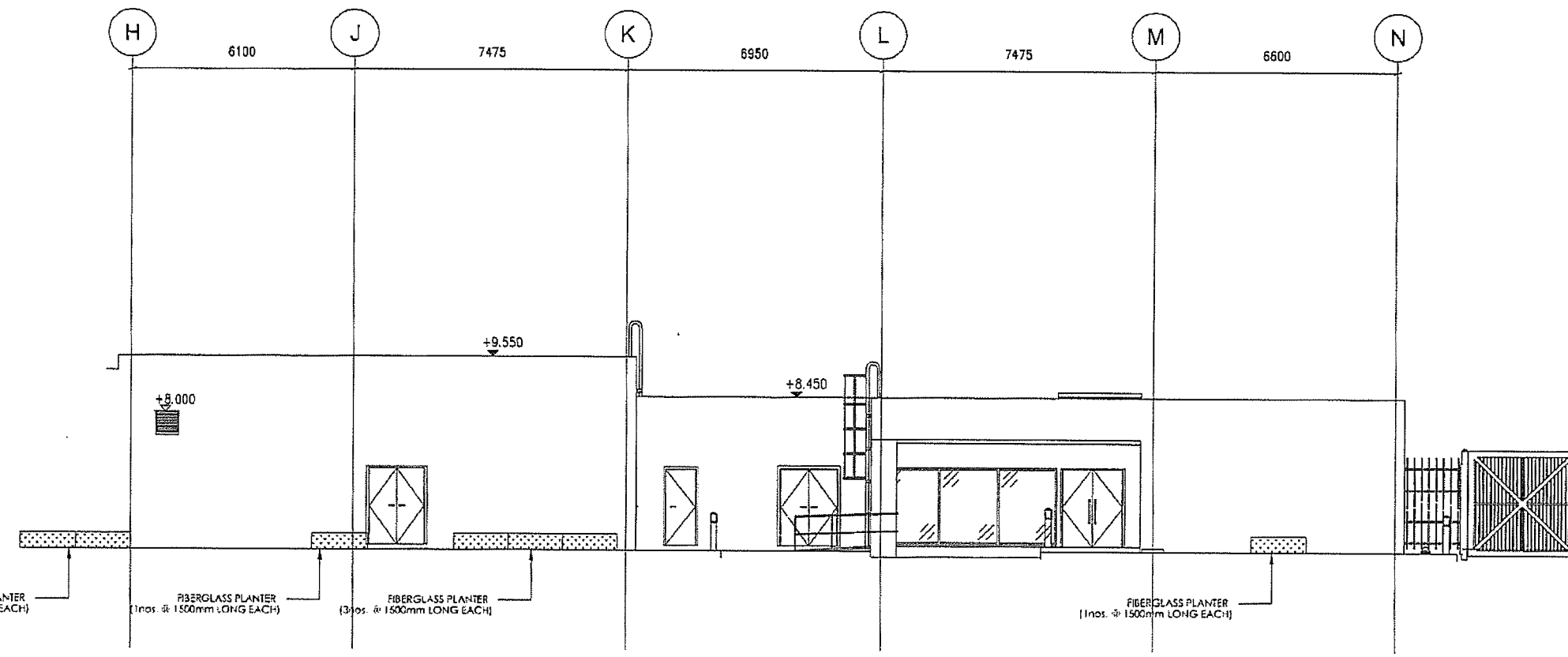
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AS-BUILT

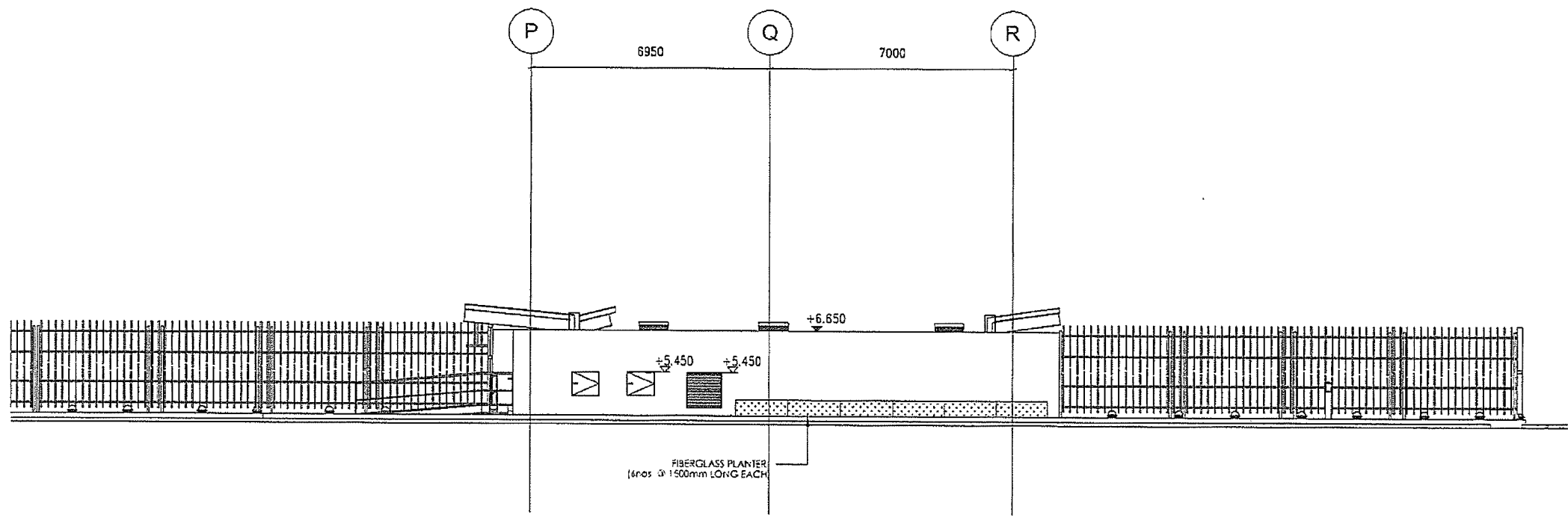
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REV	DESCRIPTION	BY	CHK	DATE
01				
Highways Department 路政署 Major Works Project Management Office 大工務處				
CENTRAL - WAN CHAI BYPASS AND IEC LINK CENTRAL - WAN CHAI BYPASS - TUNNEL BUILDINGS, SYSTEMS AND FITTINGS AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING				
CONSULTANT ENGINEER AECOM AECOM Asia Co. Ltd.				
CONTRACTOR LEIGHTON JOINT VENTURE				
CONSULTANT LANDSCAPE				
DRAWING TITLE ELEVATION 7742				
DWG. NO. LE-02-ADB				
DESIGNED BY	LA	CONTRACT NO.	HY/2011/08	PROJECT NO.
DRAWN BY	LA	STATUS	REV 2	
SCALE	1:150@A3			
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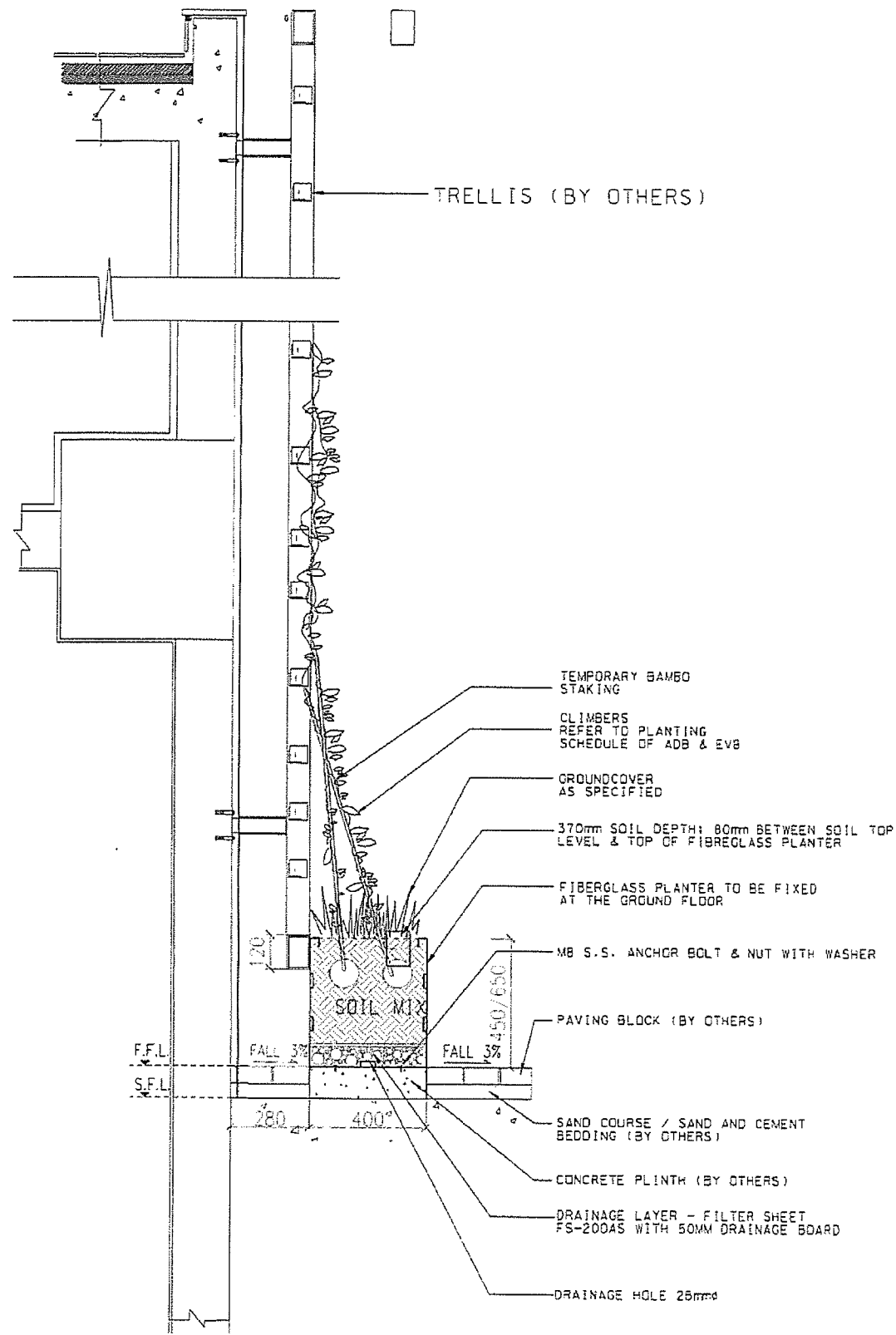
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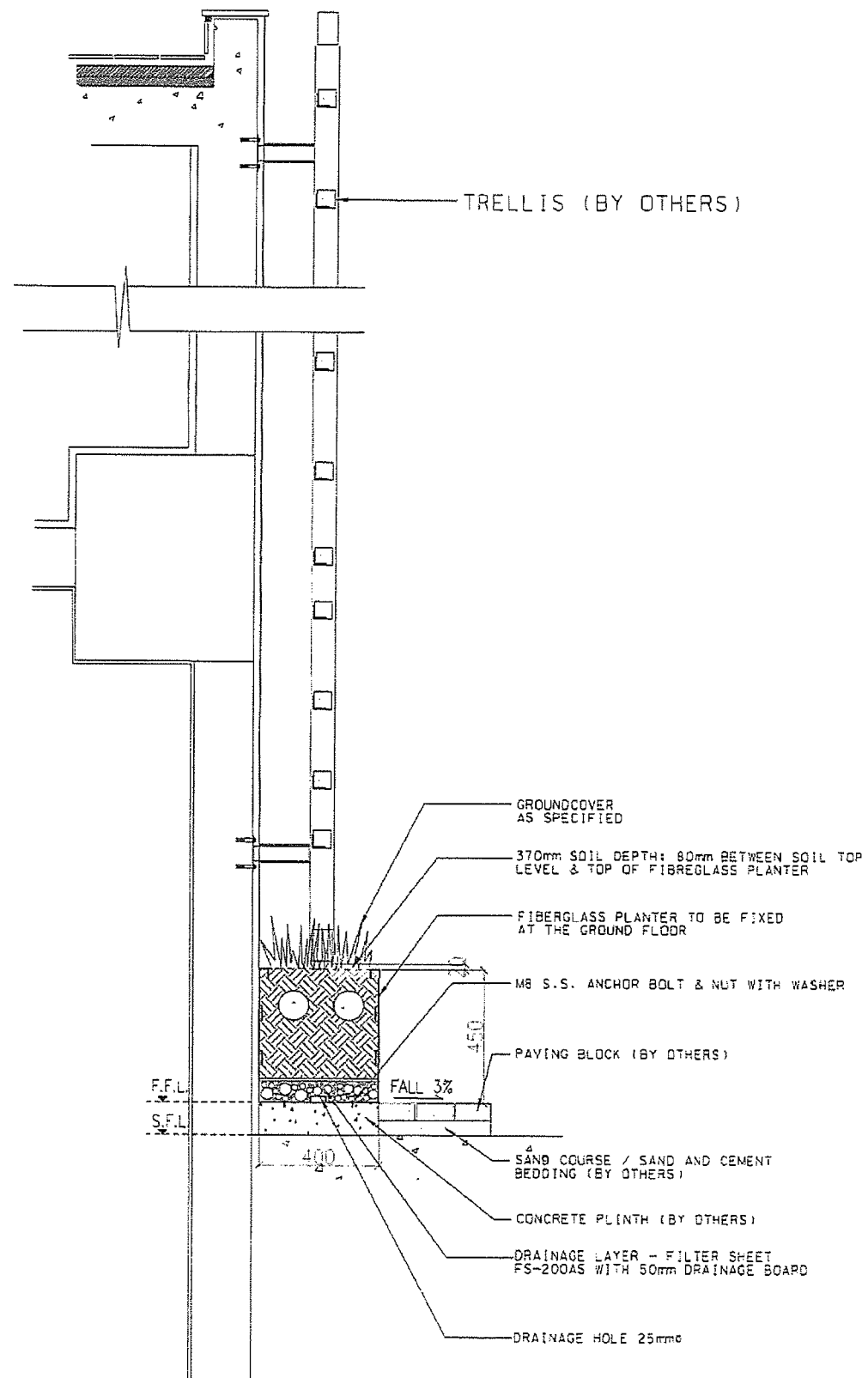
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A		As-fitted	-	-	21/7
REV	DESCRIPTION	BY	CHK	DATE	
<p>Highways Department 路政署 Major Works Project Management Office</p> <p>CENTRAL - WAN CHAI BYPASS AND IEG LINK CENTRAL - WAN CHAI BYPASS - TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING</p> <p>CONSULTANT ENGINEER AECOM AECOM Asia Co. Ltd.</p> <p>CONTRACTOR LEIGHTON JOINT VENTURE</p> <p>CONSULTANT LANDSCAPE</p> <p>DRAWING TITLE ELEVATION 7743</p> <p>DWG. NO. LE - 03 - ADB</p> <p>DESIGN BY: LA CONTRACT NO: HY/2011/05 APPROVED BY: LA DRAWN BY: LA DATE: 21/7/11 SCALE: 1:150@A3</p> <p>PROJECT NO: M40/01/01 © COPYRIGHT RESERVED 圖則編號: M40/01/01 版權所有</p>					



A PLANTER DETAIL (ADB)
SECTION SCALE 1:20



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

AS-BUILT

A	As-fitted	-	-	21/7
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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 AGRAS ASSOCIATED WITH TUNNEL COMMISSIONING

CONSULTANT ENGINEER
AECOM
AECOM Asia Co. Ltd.

CONTRACTOR
LEIGHTON JOINT VENTURE

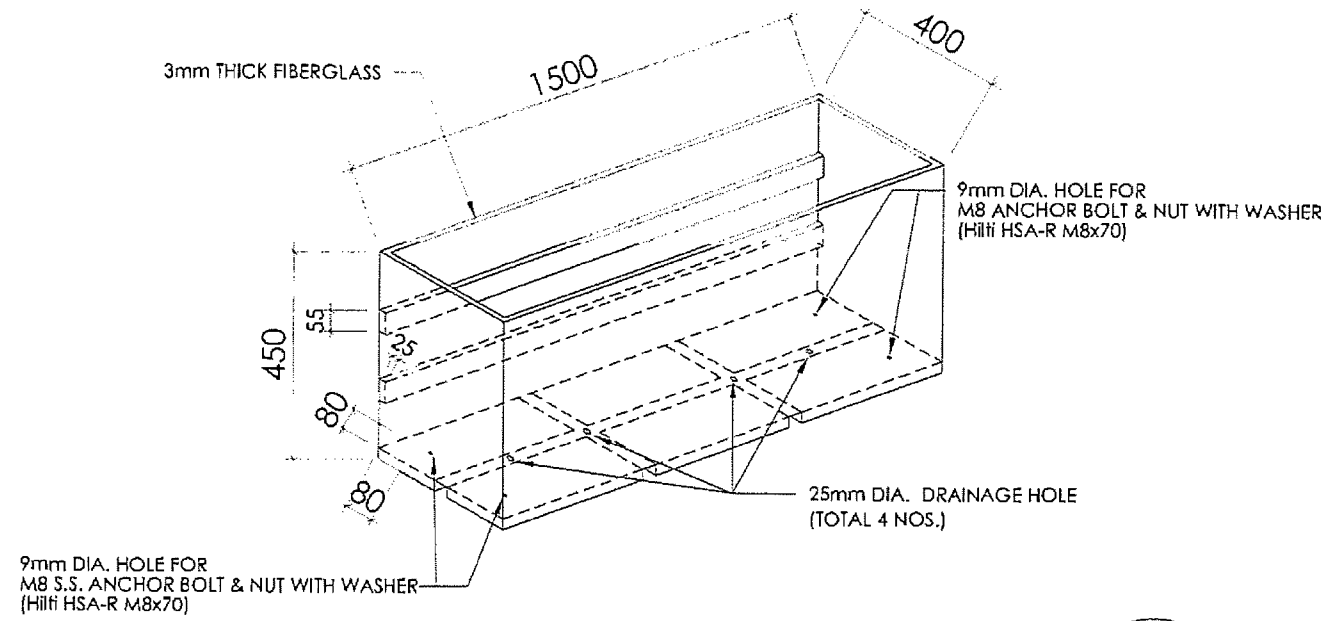
CONSULTANT LANDSCAPE

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

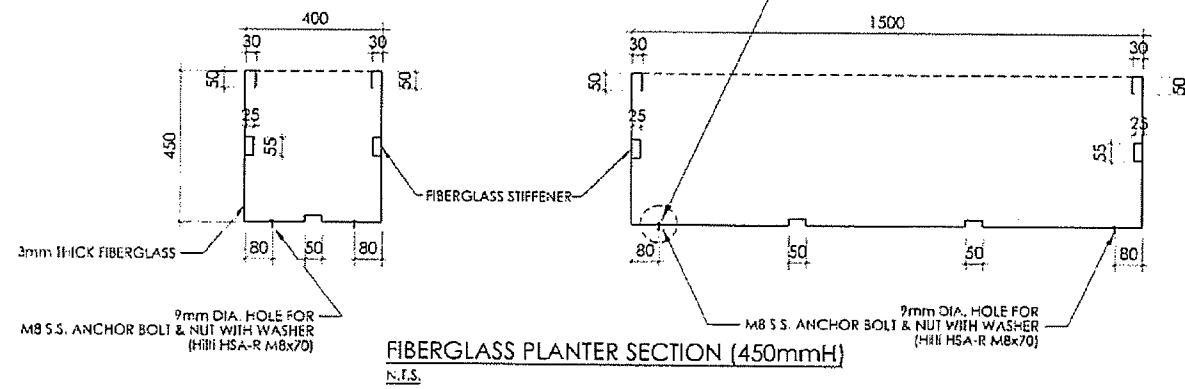
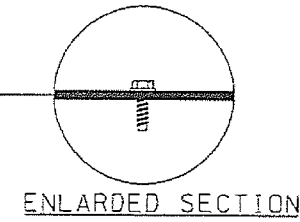
DRG. NO. LD-01-ADB

DESIGN BY LA	CONTRACT NO. HY/2011/CS	APPROVED BY S.A.
CHECKED BY LA	DATE 11/11/11	SCALE AS SHOWN
UNITS: METERS		

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FIBERGLASS PLANTER
N.T.S.



AS-BUILT

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

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

CONTRACTOR
LEIGHTON JOINT VENTURE

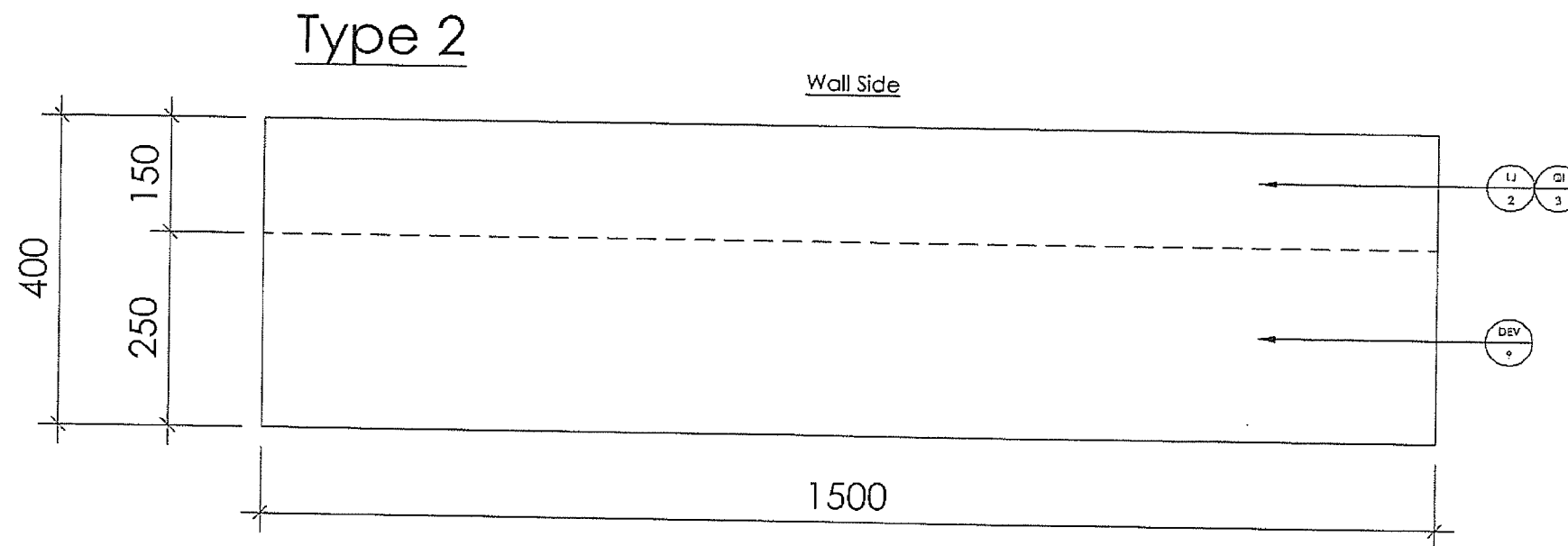
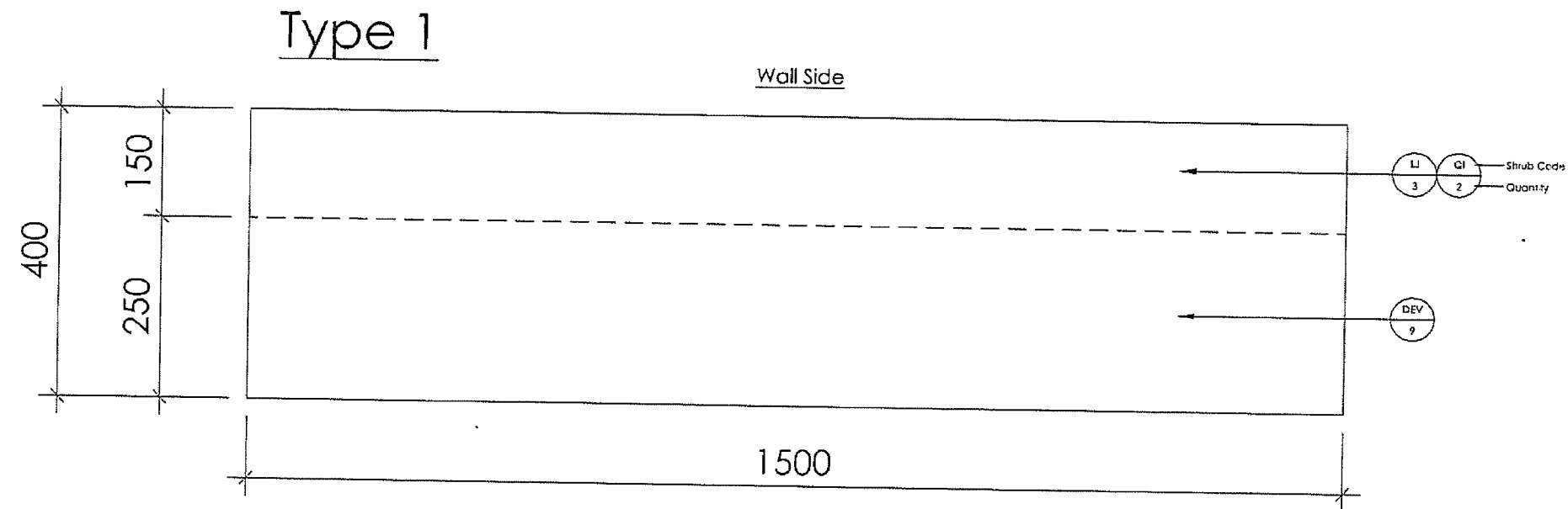
CONSULTANT LANDSCAPE

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

DRG NO. LD - 02 - ADB	SCALE AS SHOWN	DATE HY/2011/08	APPVED BY E.E.
DESIGN BY LA	DRAWN BY LA	CHECKED BY E.E.	DATE E.E.

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遠 理 研 究

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



LEGEND

- (DEV) DIANELLA ENSIFOLIA "VARIEGATA" 花葉山管蘭
- (LJ) LONICERA JAPONICA 金銀花
- (QI) QUISQUALIS INDICA 使君子

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

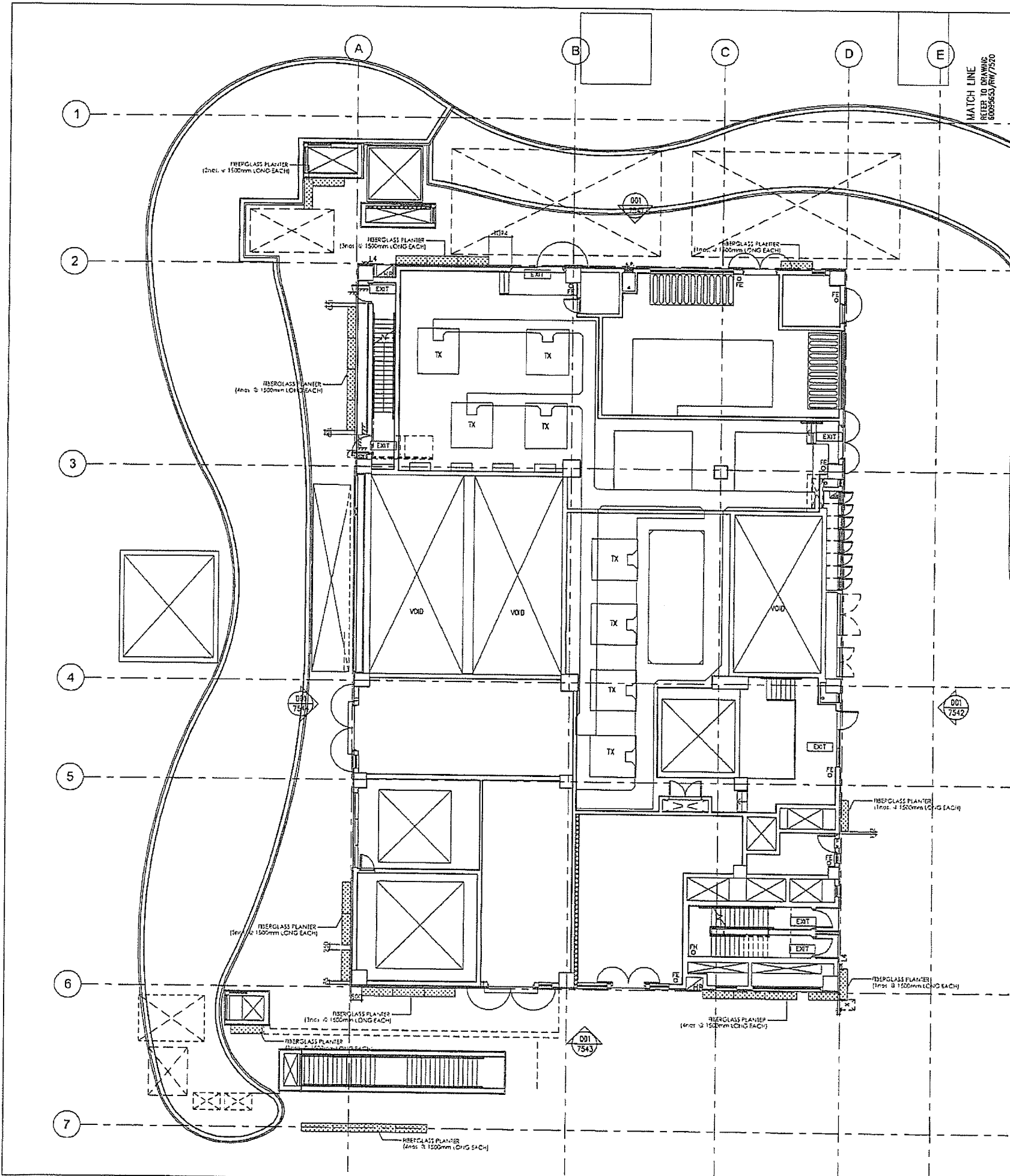
**PLANTING SCHEME
(FIBERGLASS PLANTER)**

DRG. NO. LD-03-ADB

SCALE	LA	CONTRACT NO.	HY/2011/08
SCALE	N.T.S.	DATE	21/7

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East Ventilation Building Fibre Glass Planter and Green Wall



LEGEND

FIBERGLASS PLANTER

AS-BUILT

REV	DESCRIPTION	BY	CHK	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.

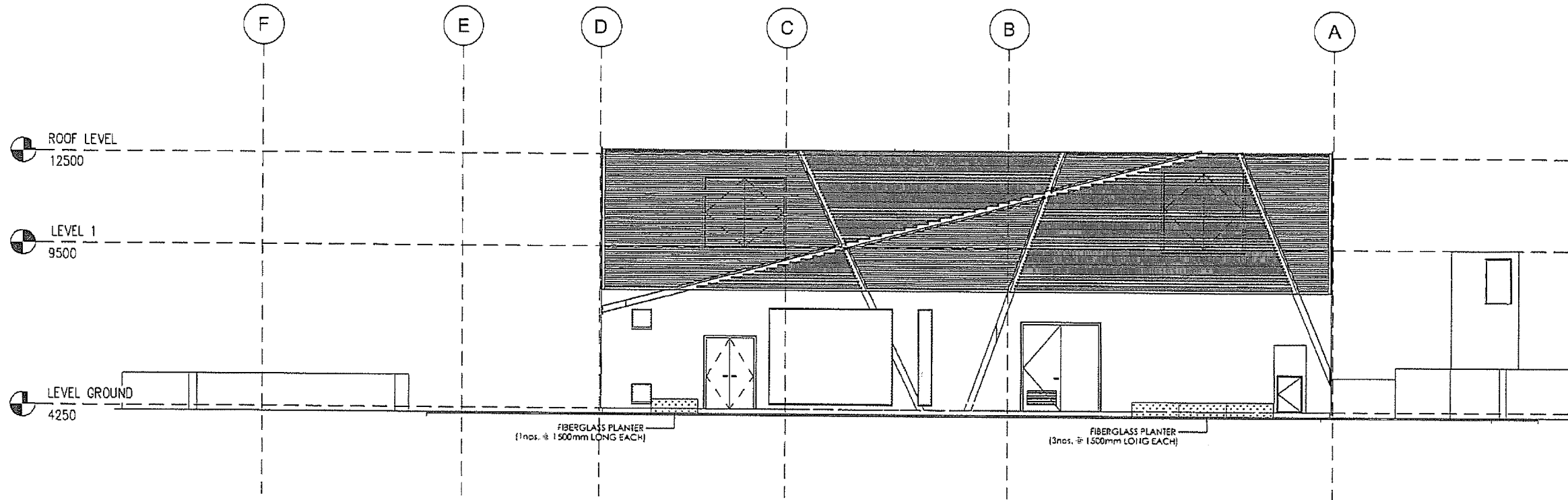
CONTRACTOR
LEIGHTON
LEIGHTON JOINT VENTURE

CONSULTANT LANDSCAPE

DRAWING TITLE
FIBER GLASS PLANTER PLAN

DWG. NO. LP-01-EVB		REV. NO.
DESIGN BY LA	DATE 21/7/11	APPROVED BY
CHECKED BY LA	HY/2011/08	
SCALE 1:200 @ A3	SHEET 2/2	
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NO.	DESCRIPTION	DATE
A	As-fitted	21/7

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 CENTRAL - WAN CHAI BYPASS AND IEO 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

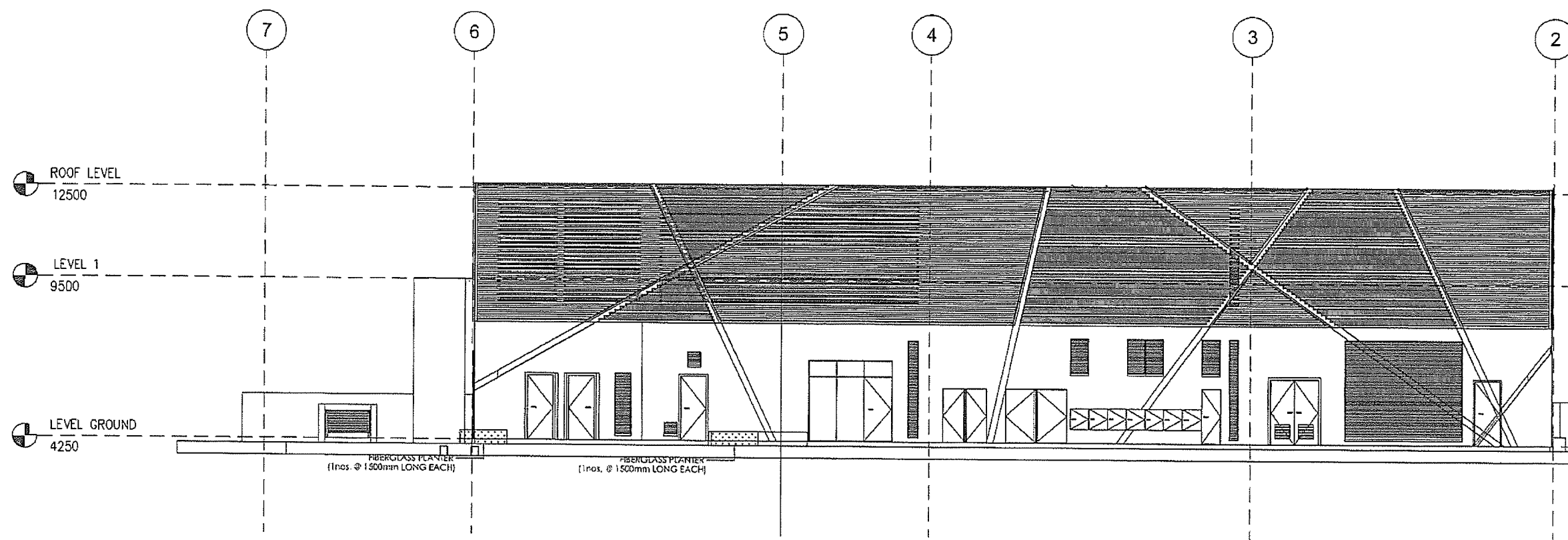
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ELEVATION 7541

DWG. NO. **LE-01-EVB**

DESIGNED BY LA	CONTRACT NO. HY/Z011/03	APPROVED BY
DRAWN BY LA	DATE	
SCALE 1:150@A3		

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AS-BUILT



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

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

CONSULTANT ENGINEER
AECOM
 AECOM Asia Co. Ltd.

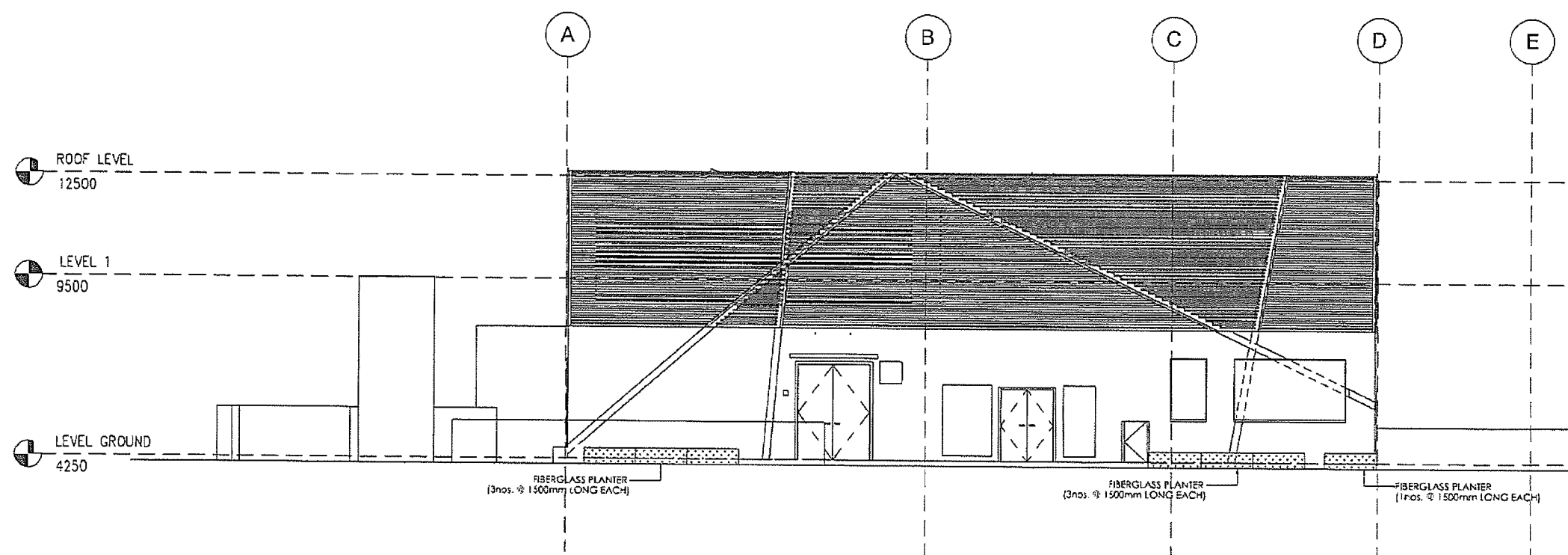
CONTRACTOR
 LEIGHTON JOINT VENTURE

CONSULTANT LANDSCAPE

DRAWING TITLE
ELEVATION 7542

DWS. NO. LE - 02 - EVB			
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AS-BUILT



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

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 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.

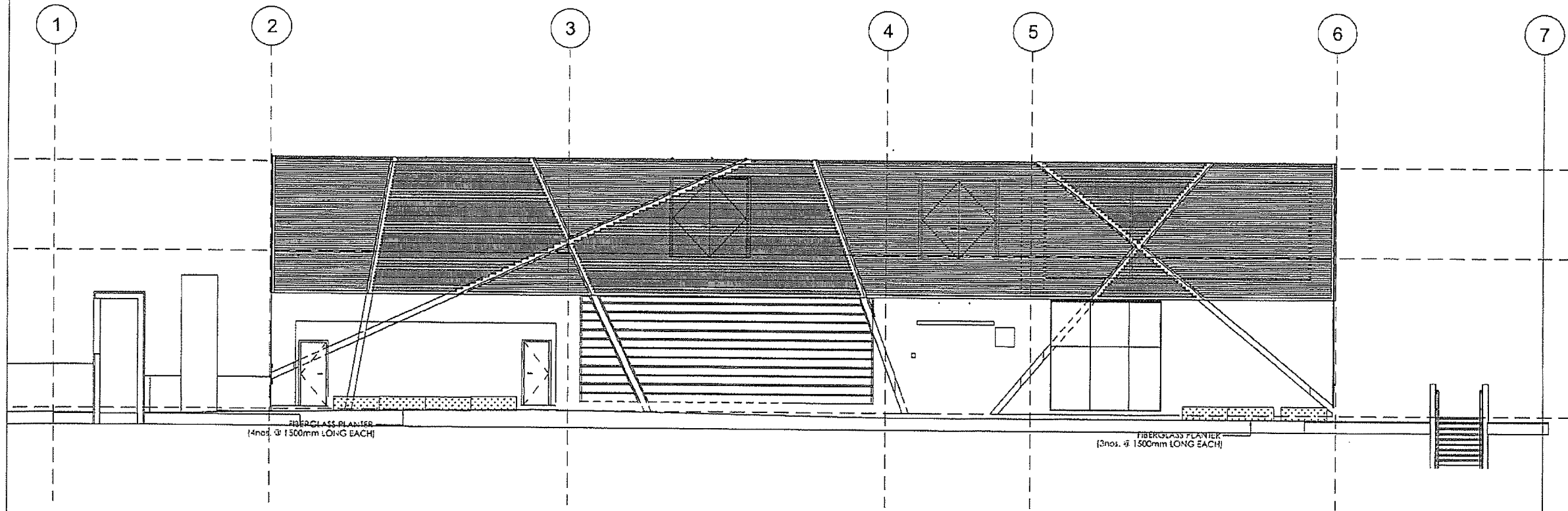
CONTRACTOR
LEIGHTON JOINT VENTURE

CONSULTANT LANDSCAPE

DRAWING TITLE
ELEVATION 7543

DWG. NO. LE-03-EVB		REV. NO.
DESIGN BY LA	CONTRACT NO. HY/2011/08	APPROVED BY
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01				

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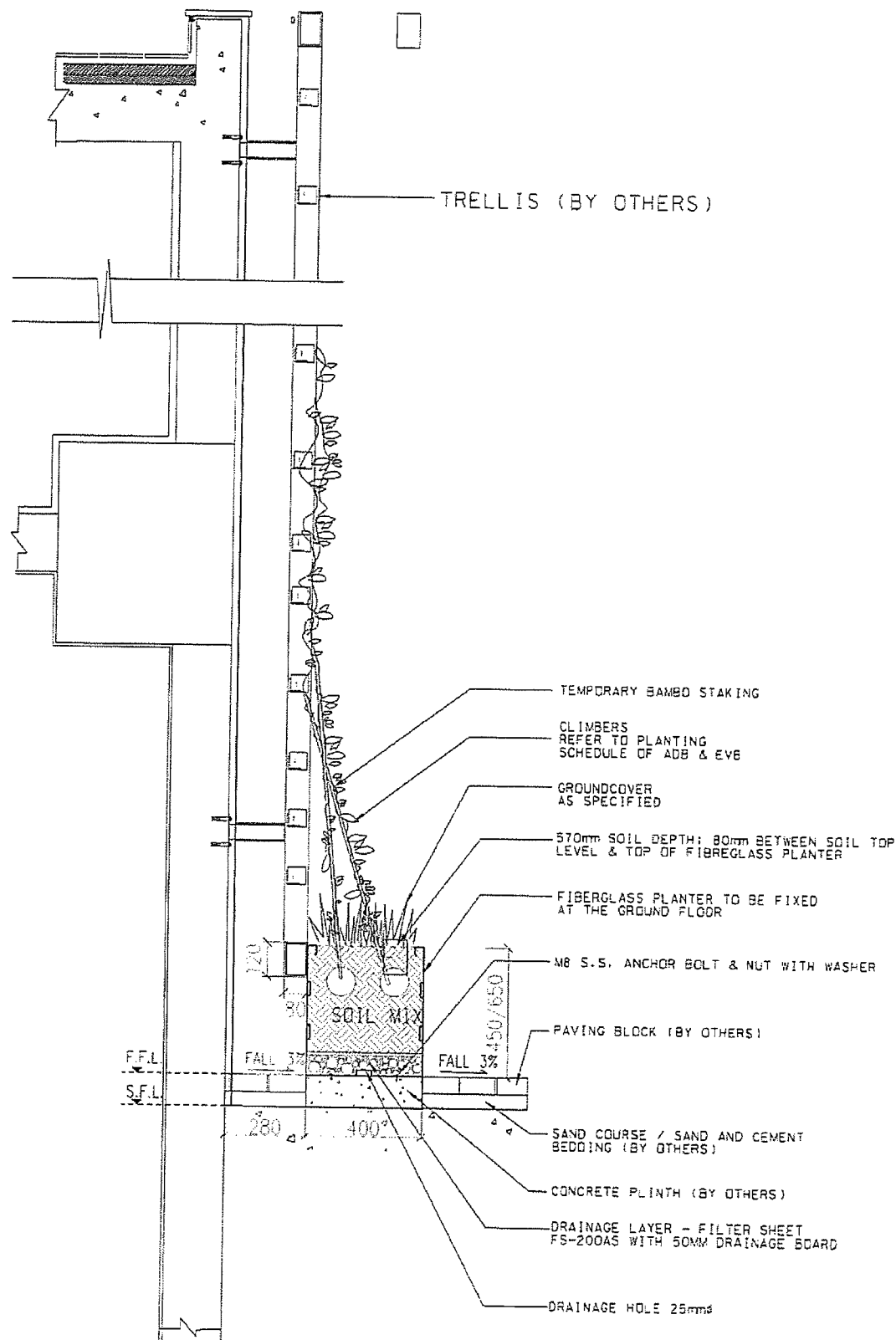
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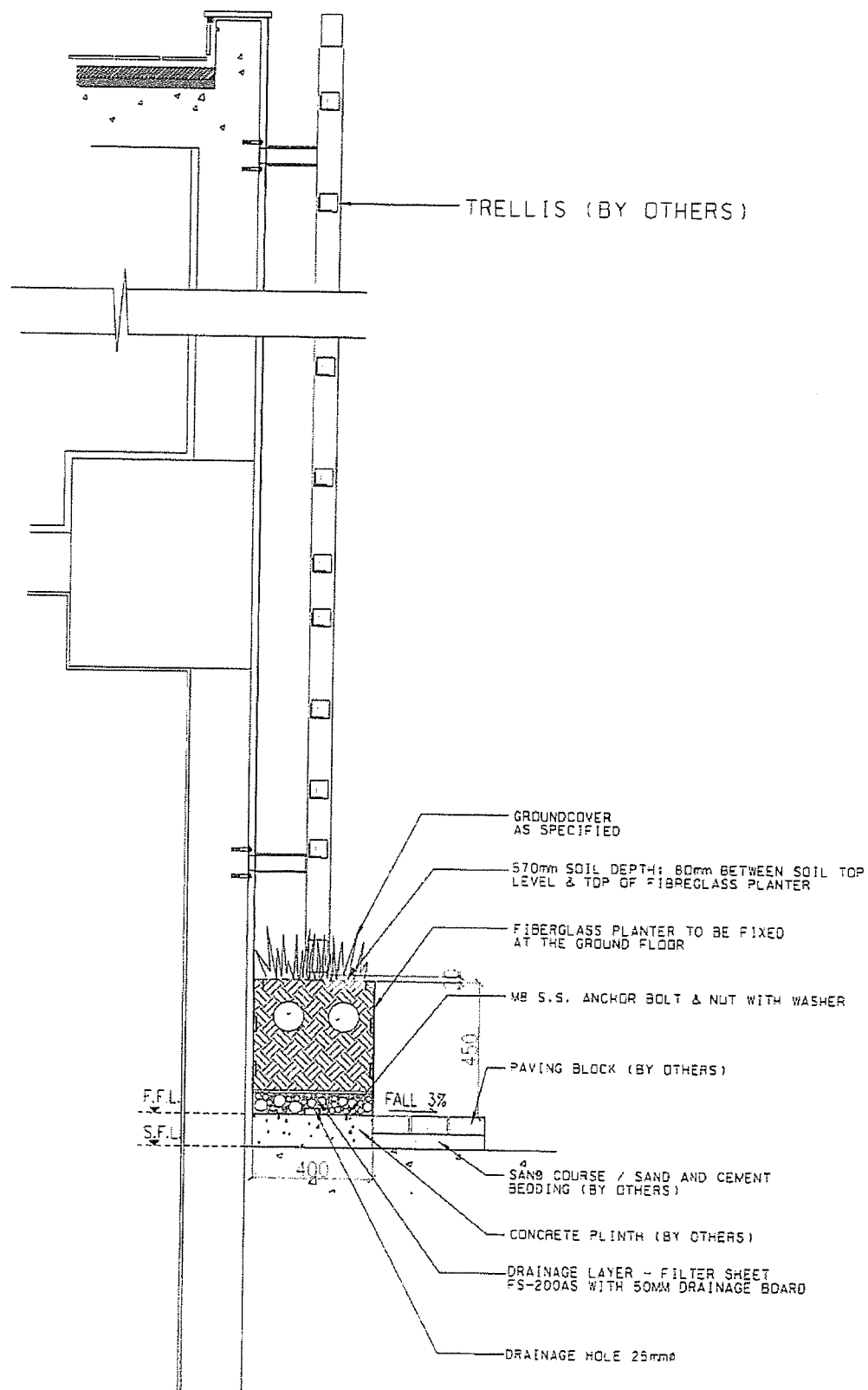
CONSULTANT LANDSCAPE

DRAWING TITLE
ELEVATION 7544

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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

REV. NO.	DESCRIPTION	DATE
A	As-fitted	21/7

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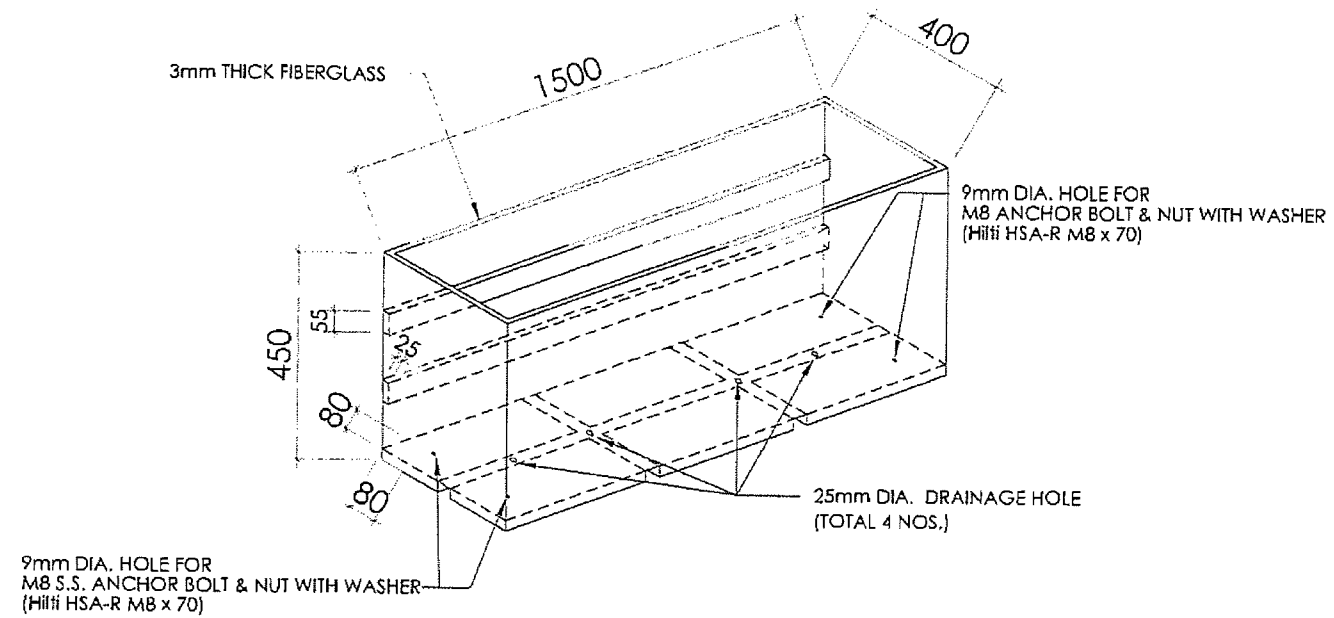
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**GREEN WALL DETAILS
(FIBERGLASS PLANTER)**

DRG. NO. LD-01-EVB

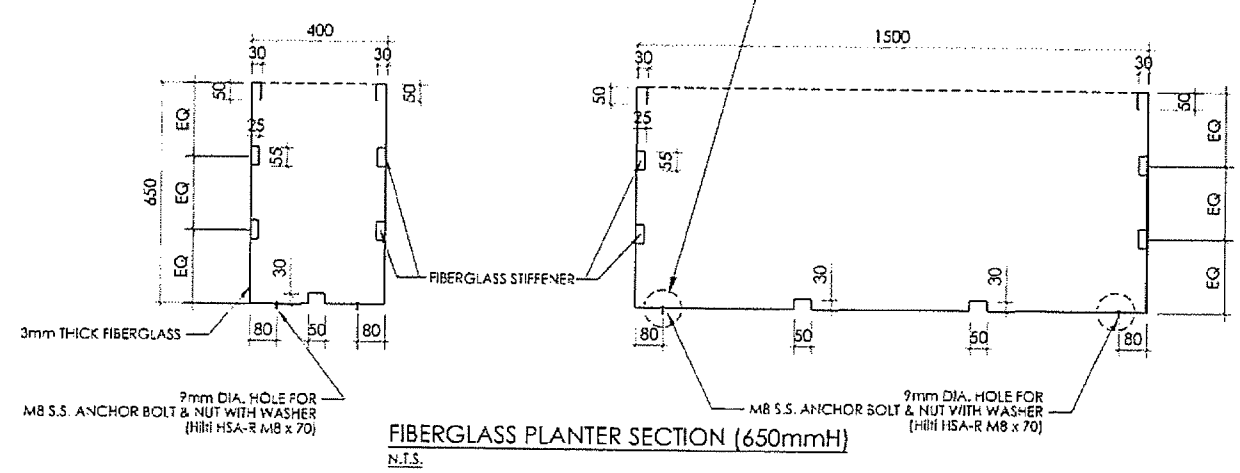
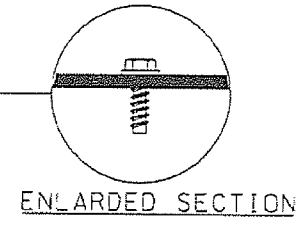
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CHECKED BY LA DATE 11/11/11

SCALE AS SHOWN

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FIBERGLASS PLANTER
N.T.S.



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

AS-BUILT

REV	DESCRIPTION	DATE
A	As-fitted	- - 21

Highways Department 路政署
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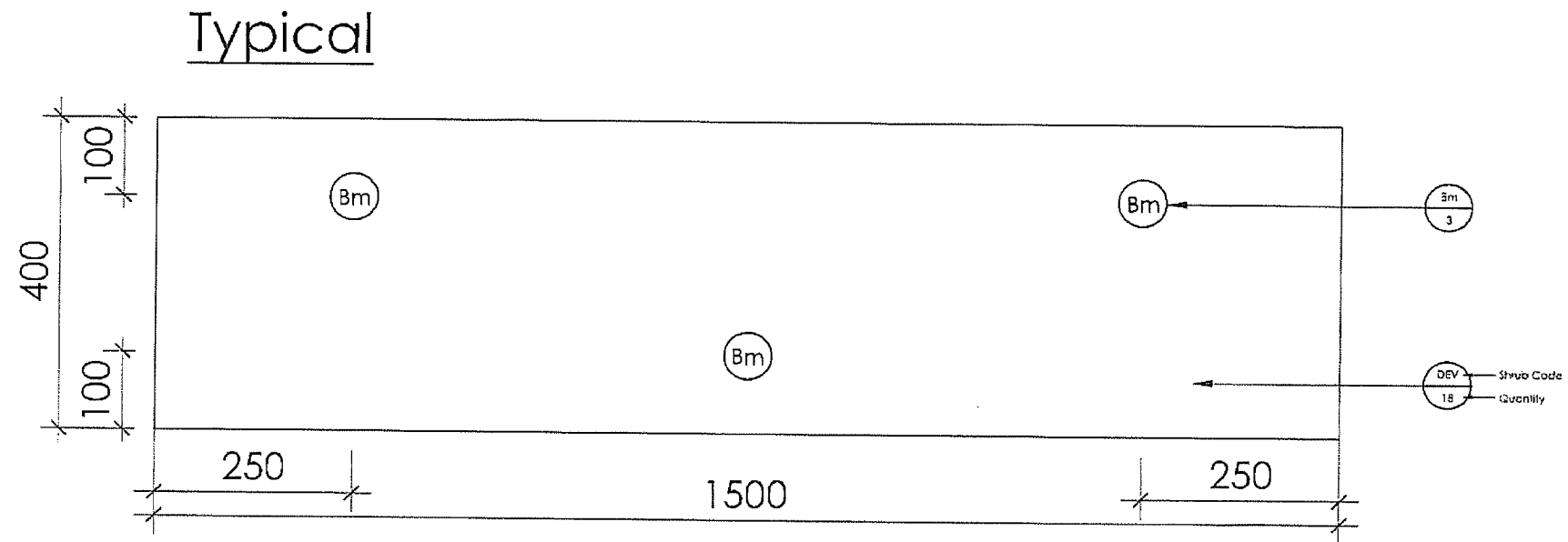
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**GREEN WALL DETAILS
(FIBERGLASS PLANTER)**

DRG. NO.	LD - 02 - EVB
DESIGN BY	LA
DATE	HY/2011/GS
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UNITS	MILLIMETERS

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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

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A	As-fitted	-	21/7

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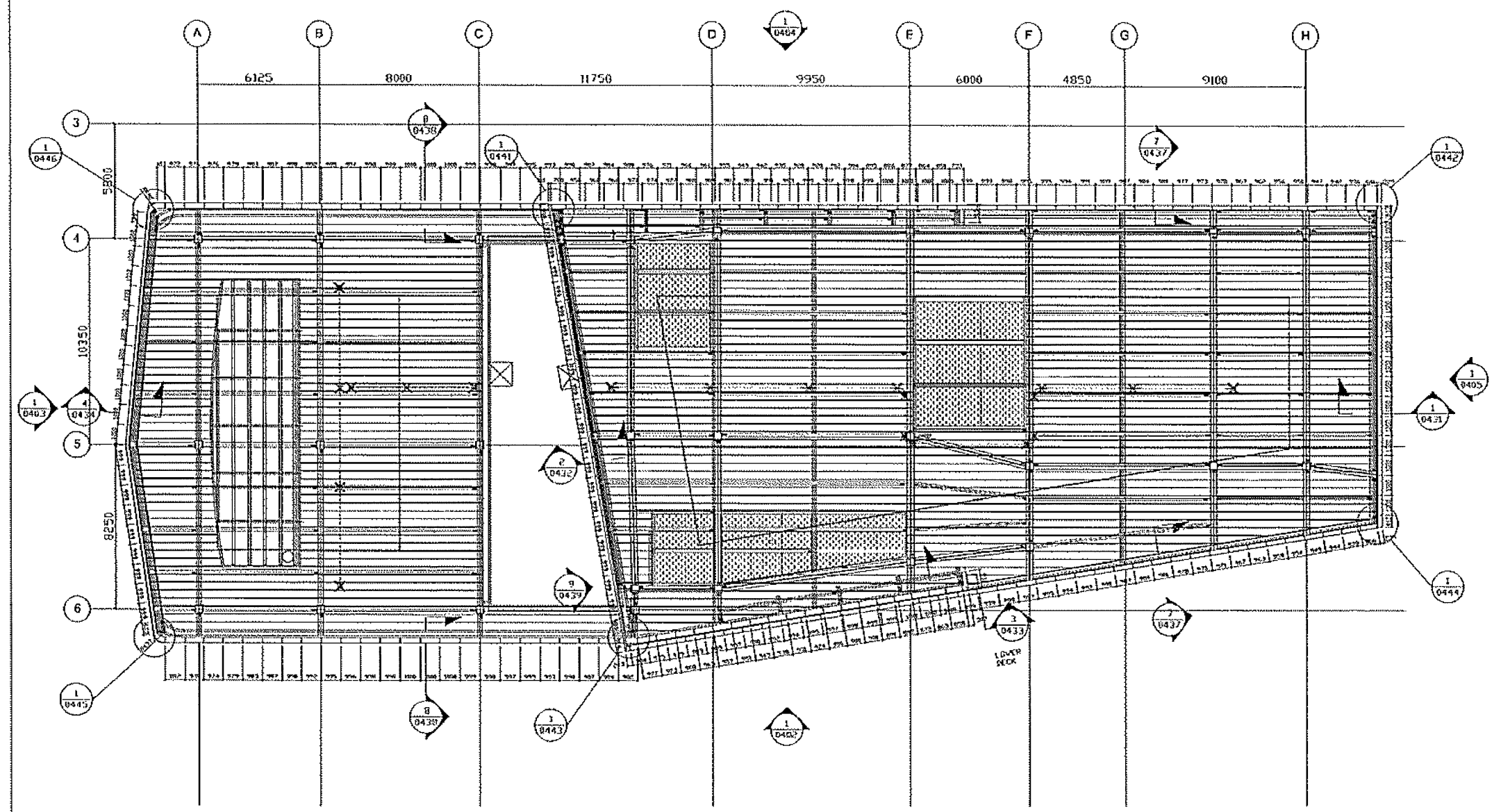
DRAWING TITLE
**PLANTING SCHEME
(FIBERGLASS PLANTER)**

DRG. NO. LD-03-EVB

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SCALE N.T.S.		

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Middle Ventilation Building Cladding



MVB PLAN

NOTES

MEMBER SIZE	GRADE
60x60x6mm THK. EA	S275J0
80x80x8mm THK. EA	S275J0

EDGE CLADDING SUB-FRAME SHOULD BE 1000L/c MAX LIND

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Highways Department
 Major Works Project Management Office
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 CENTRAL - WAN CHAI BYPASS
 TUNNEL BUILDING SYSTEMS AND FITTINGS
 AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

CONSULTANT
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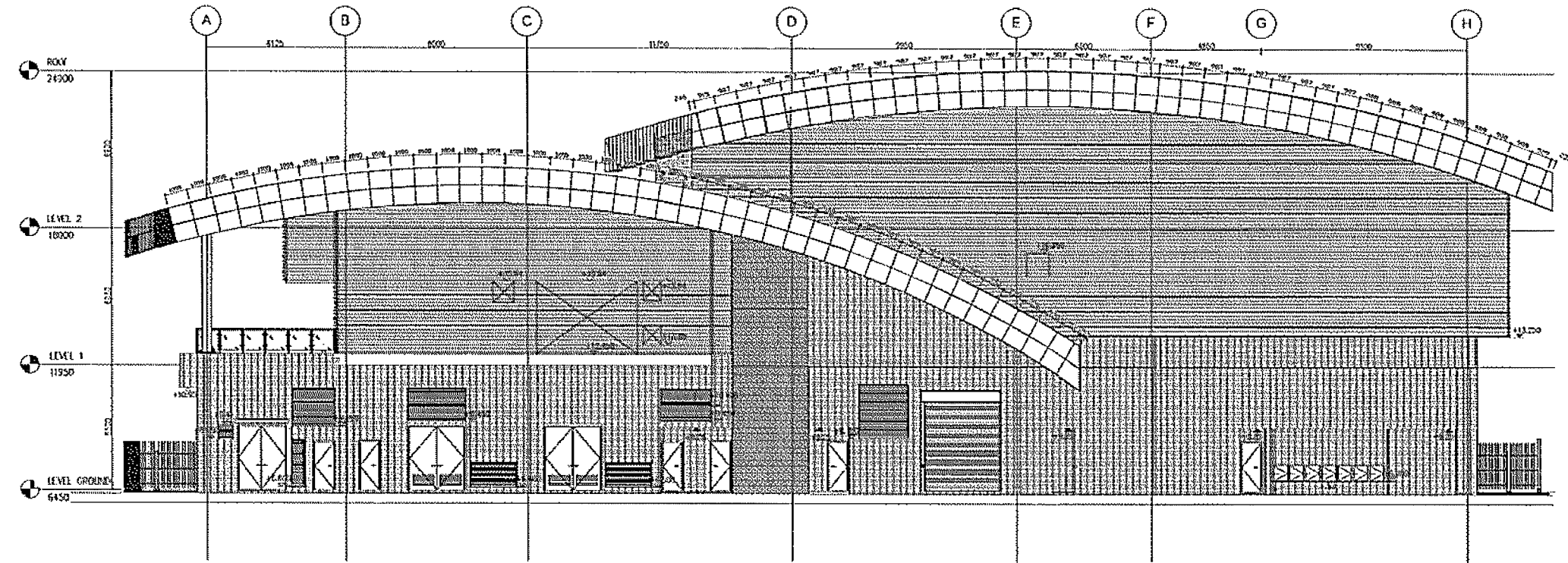
CONTRACTOR
 LEIGHTON JOINT VENTURE

DRAWING TITLE
 CENTRAL - WAN CHAI BY PASS
 TUNNEL BUILDING
 MVB PLAN SET

DWG. NO.
 H2613/LJV/MVB/MDK/001/0401

DATE	BY	CHECKED BY	DATE
SCALE	N/A		
PROJECT NO.	H2613		

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1 ELEVATION OF SOUTH SIDE

NOTES:

MEMBER SIZE	GRADE
60x60x6mm THK. EA	S275JD
60x60x6mm THK. EA	S355JD

EDGE CLADDING SUB-FRAME SHOULD BE 1000x/c MAX U/J/D

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Highways Department
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 CENTRAL - WAN CHAI BYPASS -
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 AND WORKS ASSOCIATED WITH TUNNEL CONNECTIONS

CONSULTANT ENGINEER
 AECOM Asia Co Ltd

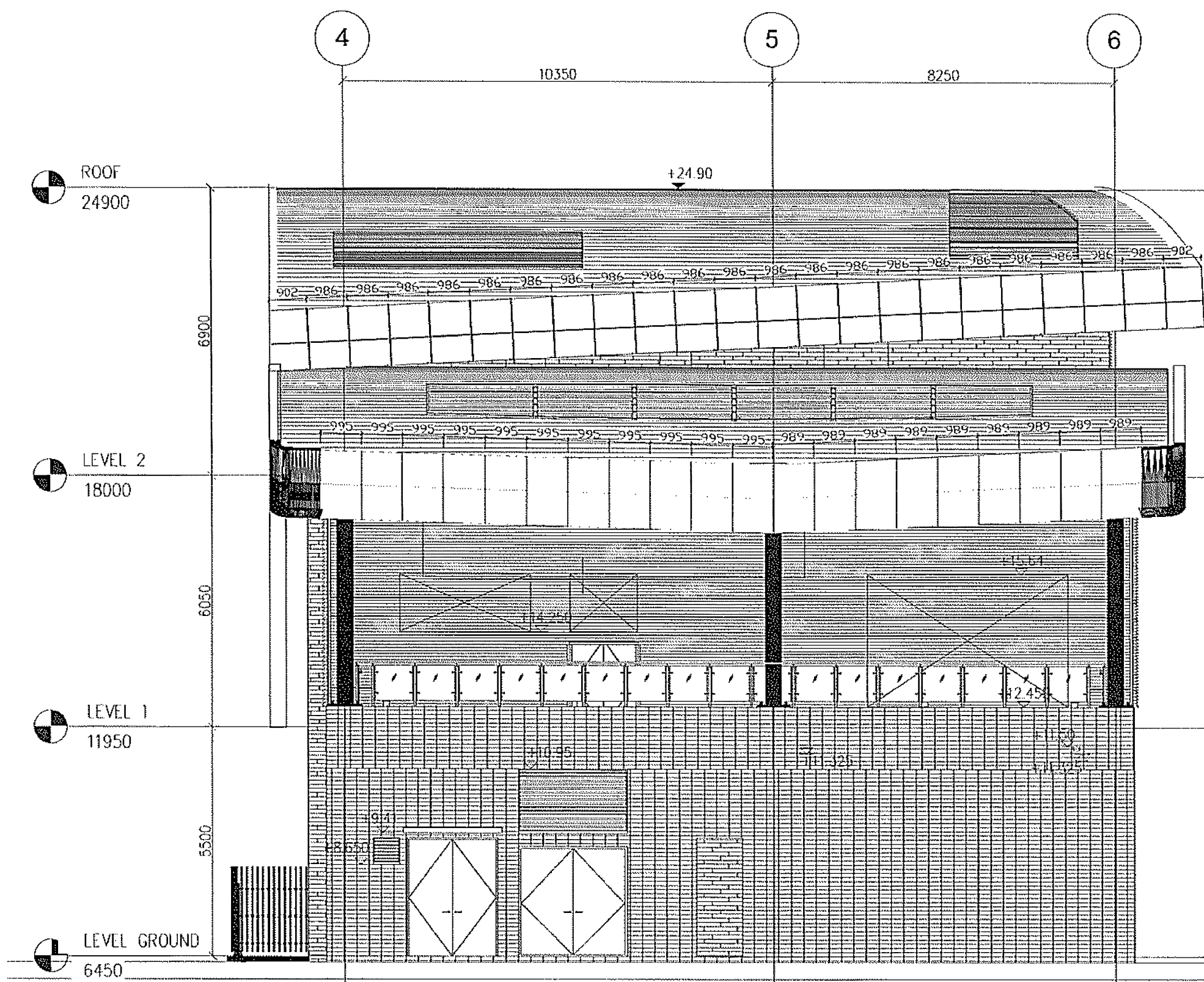
CONTRACTOR
 LEIGHTON JOINT VENTURE

DRAWING TITLE
 CENTRAL - WAN CHAI BY PASS
 TUNNEL BUILDING
 WEST ELEVATION VIEW

DWG. NO. H2615/JV/AMB/MDK/001/0402

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11/20/08	KE	11/20/08	KE

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NOTES:

MEMBER SIZE	GRADE
60x60x8mm THK. EA	S275JD
80x50x8mm THK. EA	S355JD

EDGE CLADDING SUB-FRAME SHOULD BE 1000/c MAX UNDO

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

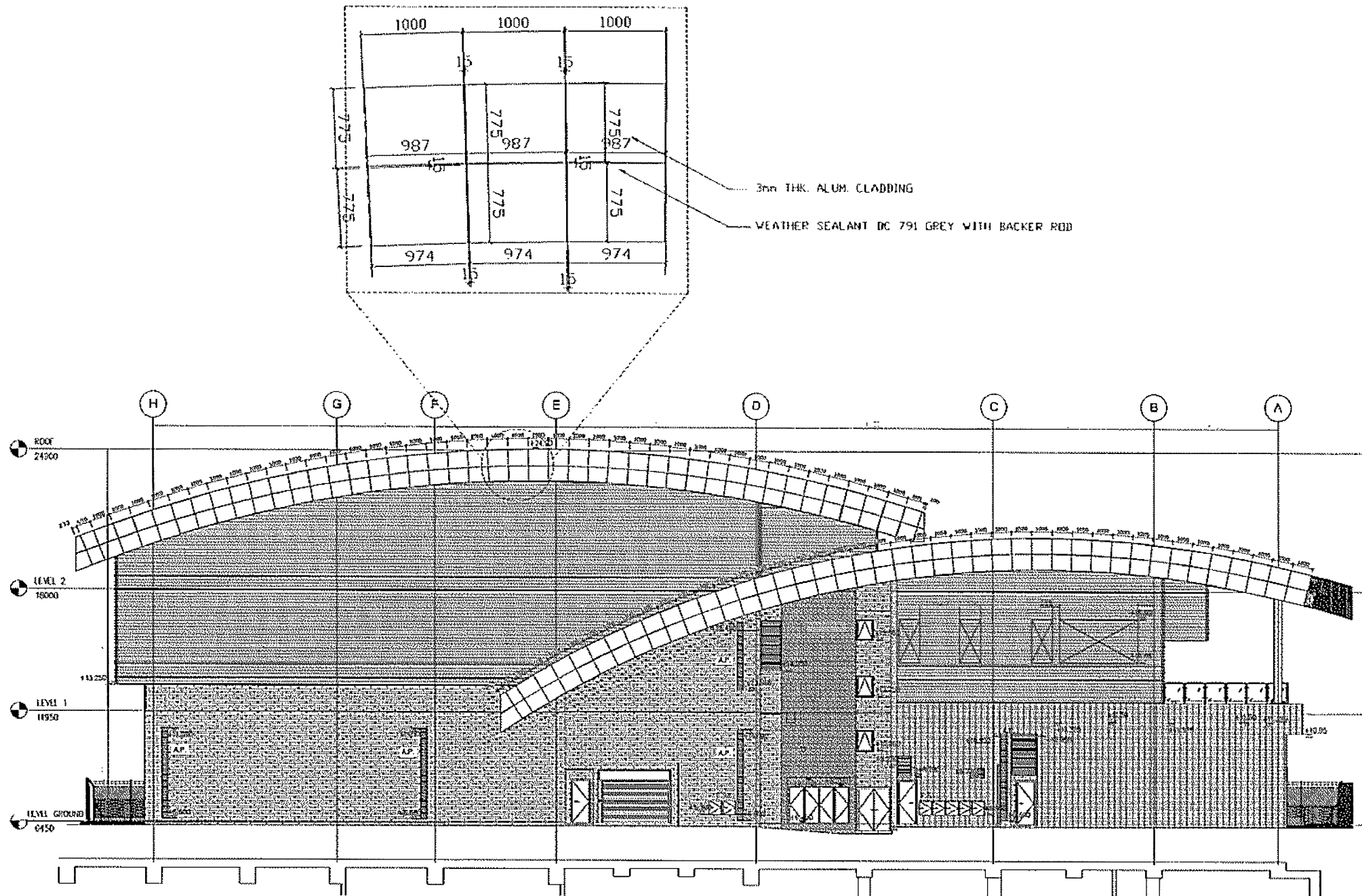
CONTRACTOR
 LEIGHTON JOINT VENTURE

DRAWING TITLE
 CENTRAL - WAN CHAI BY PASS
 TUNNEL BUILDING
 WEST ELEVATION VIEW

DRAWING NO. H2613/LJV/MVO/MDK/001/0403

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12/2011	IN/2011/01		
SCALE	N/A		

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1 ELEVATION OF NORTH SIDE

NOTES:

MEMBER SIZE	GRADE
60x60x6mm THK. EA	S275JD
80x80x6mm THK. EA	S355JD

EDGE CLADDING SUB-FRAME SHOULD BE 1000% MAX UNLTD

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 Major Works Project Management Office
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 CENTRAL - WAN CHAI BYPASS
 TUNNEL BUILDING, STRUCTURE AND FITTINGS
 AND WORKS ASSOCIATED WITH TUNNEL CONSTRUCTION

CLIENT (OWNER)
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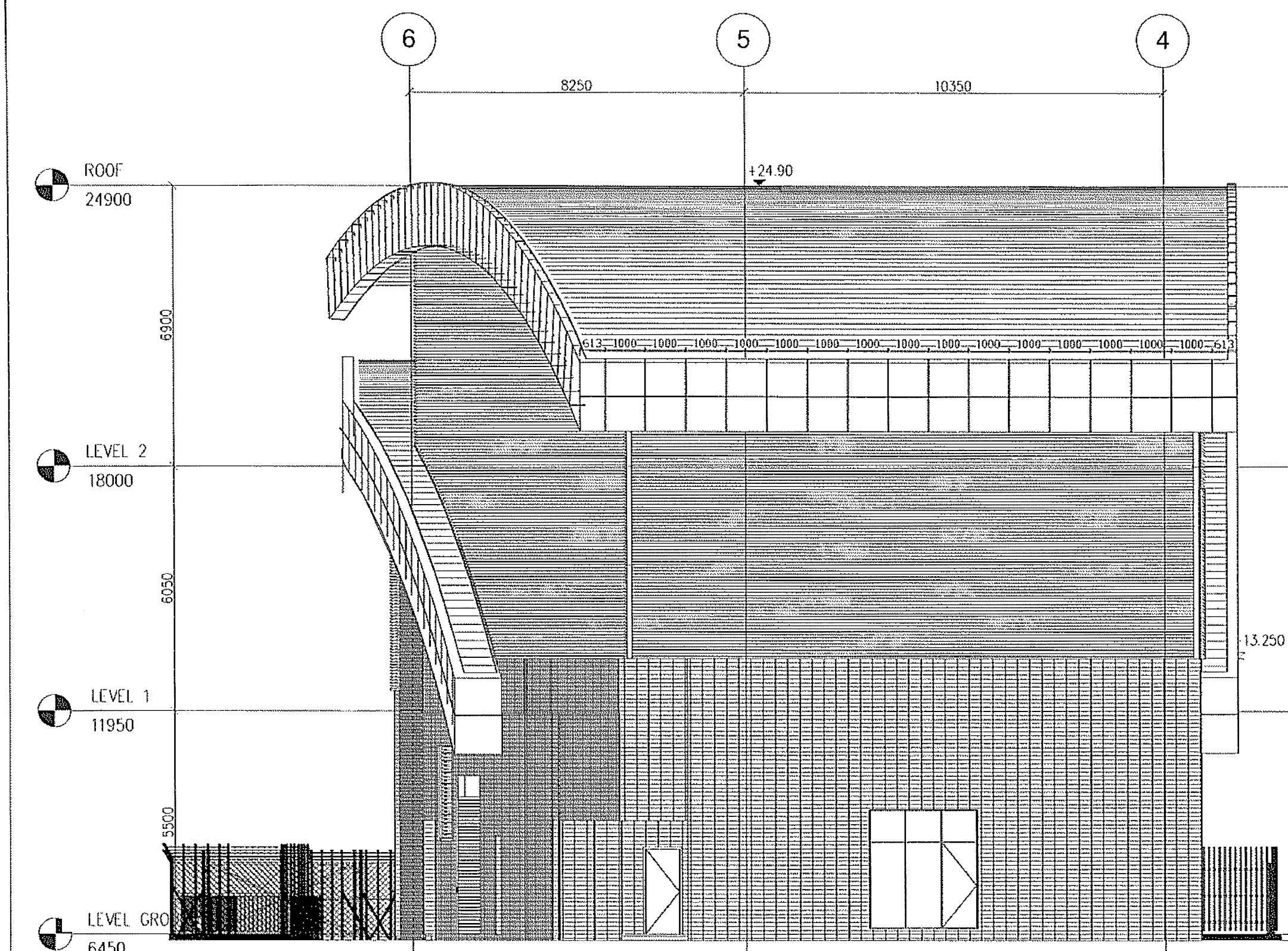
CONTRACTOR
 LEGATION JOINT VENTURE

DRAWING TITLE
 CENTRAL - WAN CHAI BYPASS
 TUNNEL BUILDING
 AND ELEVATION VIEW

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 HZ613/LJV/MVB/MDK/001/0404

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SCALE	N/A		

DESIGNED BY: MESS
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NOTES:

MEMBER SIZE	GRADE
60x60x6mm THK. EA	S275J0
80x80x8mm THK. EA	S275J0

EDGE CLADDING SUB-FRAME SHOULD BE 1000/c MAX UNO

FOR APPROVAL	DATE	SIGNATURE

Highways Department
 Major Works Project Management Office
 CENTRAL - WAN CHAI BYPASS AND IEC LINK
 CENTRAL - WAN CHAI BYPASS
 TUNNEL BUILDING SYSTEMS AND FITTINGS
 AND WORKS ASSOCIATED WITH TUNNEL GRASSING

ENGINEER
 AECOM Asia Co. Ltd.

CONTRACTOR
 LEIGHTON JOINT VENTURE

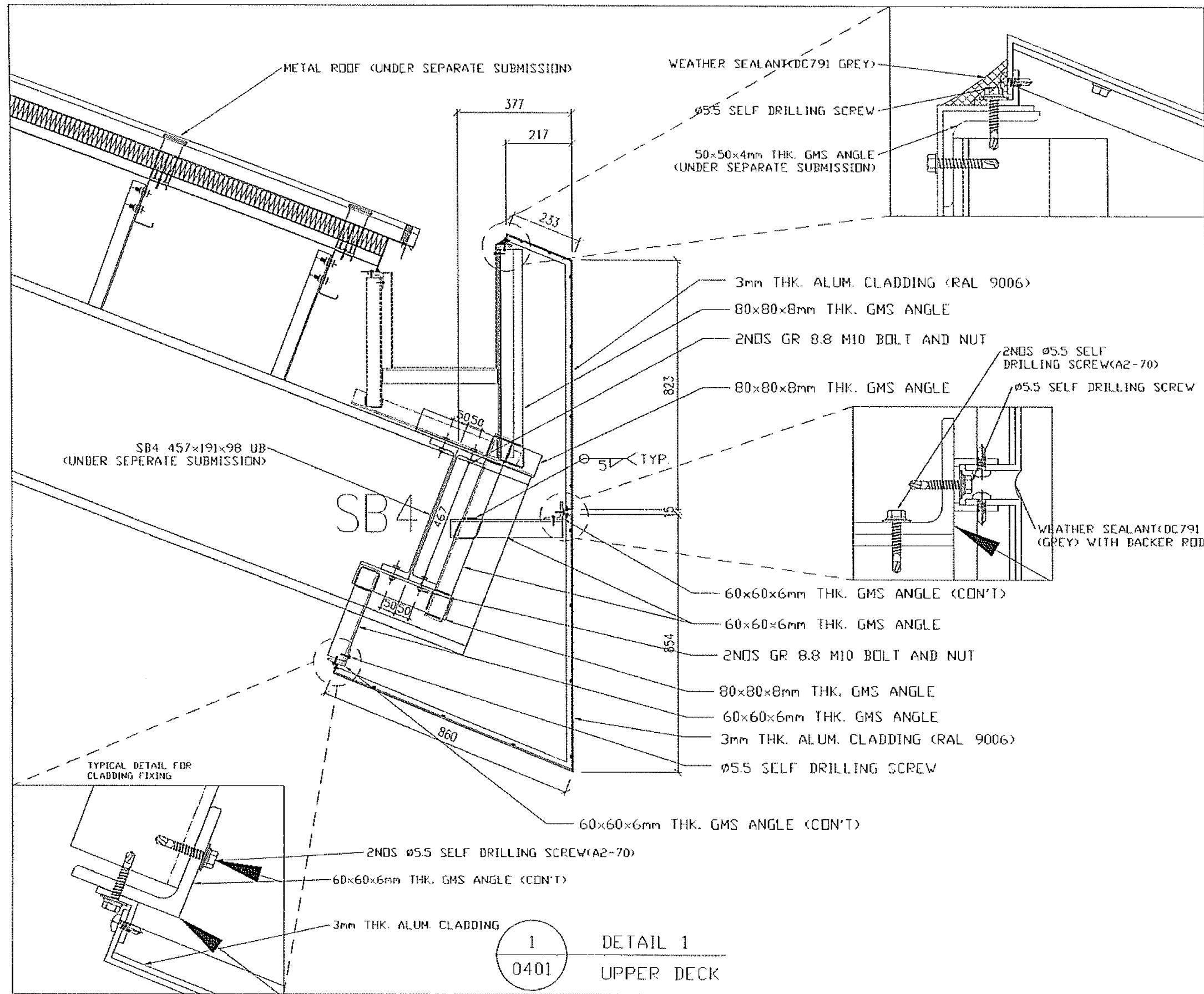
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 CENTRAL - WAN CHAI BYPASS
 TUNNEL BUILDING
 AND ELEVATION VIEW

DOC. NO.
 H2613/LJV/MVD/MDK/001/0405

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DATE	BY		

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1 ELEVATION OF EAST SIDE



NOTES:

MEMBER SIZE	GRADE
60x60x6mm THK. GA	S275-80
80x80x8mm THK. GA	S275-80

EDGE CLADDING SUB-FRAME SHOULD BE 1000± MAX. U.N.D

FOR APPROVAL	DATE	BY

Highways Department
 Major Works Project Management Office
CENTRAL - WAN CHAI BYPASS AND IEG LINK
 GENERAL - MAIN CHAIN SPACES,
 TUNNEL BUILDINGS, SYSTEMS AND INTERSES,
 AND WORKS ASSOCIATED WITH TUNNEL COMPLETION

EXECUTIVE ENGINEER
 AECOM Asia Co. Ltd.

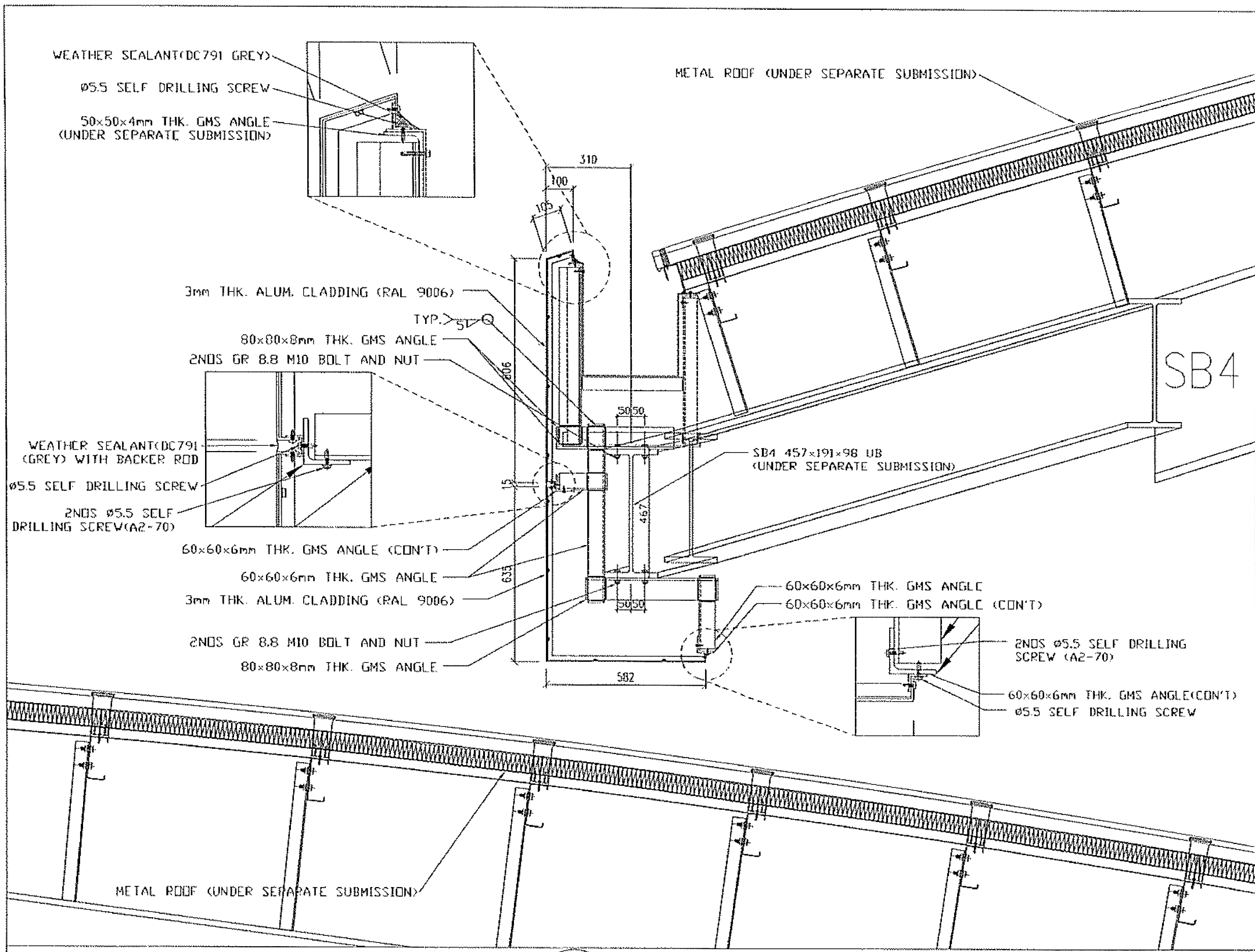
CONTRACTOR
 LEIGHTON JOINT VENTURE

TRADING TITLE
 CENTRAL - WAN CHAI BYPASS
 TUNNEL BUILDING
 WORK DETAIL 1

PROJECT NO. H2613/LJN/MWB/MDK/001/0431

DATE	11/2015/00
BY	N/A
REVISION	

1
 0401
 DETAIL 1
 UPPER DECK



NOTES:

MEMBER SIZE	GRADE
60x60x6mm THK. GA	S275JD
80x80x8mm THK. GA	S355JD

EDGE CLADDING SUB-FRAME SHOULD BE 1000g/c MAX UNO

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

ENGINEER (MEMBER)
 AECOM Asia Co. Ltd.

CONTRACTOR
 LEIGHTON JOINT VENTURE

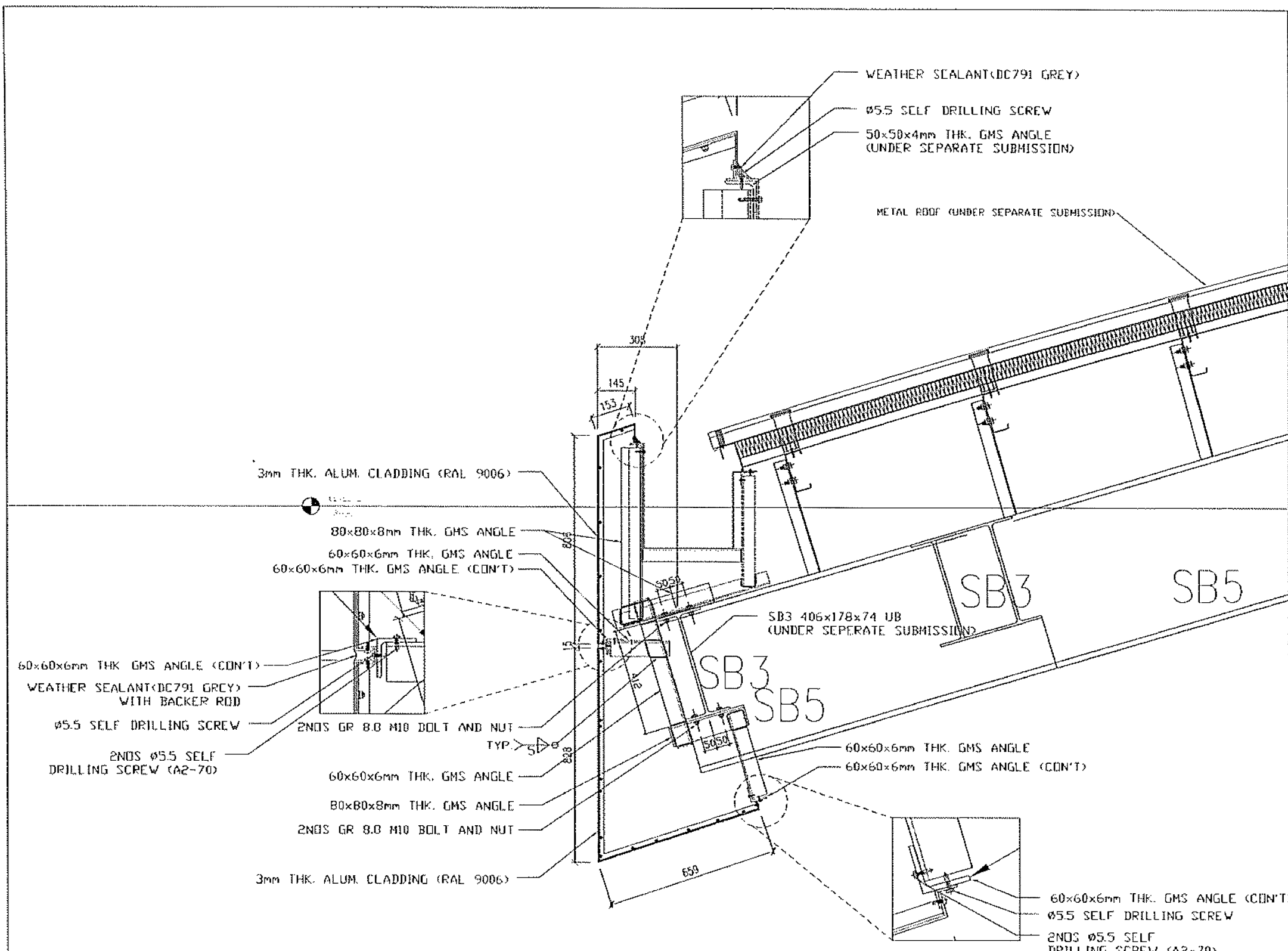
DRAWING TITLE
 CENTRAL - WAN CHAI BY PASS
 TUNNEL BUILDING
 WORK DETAIL 2

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2
 0401
 DETAIL 2
 UPPER DECK



4
0401

DETAIL 4
LOWER DECK

NOTES

MEMBER SIZE	GRADE
Ø50x6mm TRC EA	S275J0
80x80x8mm THK. EA	S275J0

FACE CLADDING SUB-FRAME SPACED @ 1000mm MAX U.N.D.

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Major Works Project Management Office

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CENTRAL - WAN CHAI BYPASS
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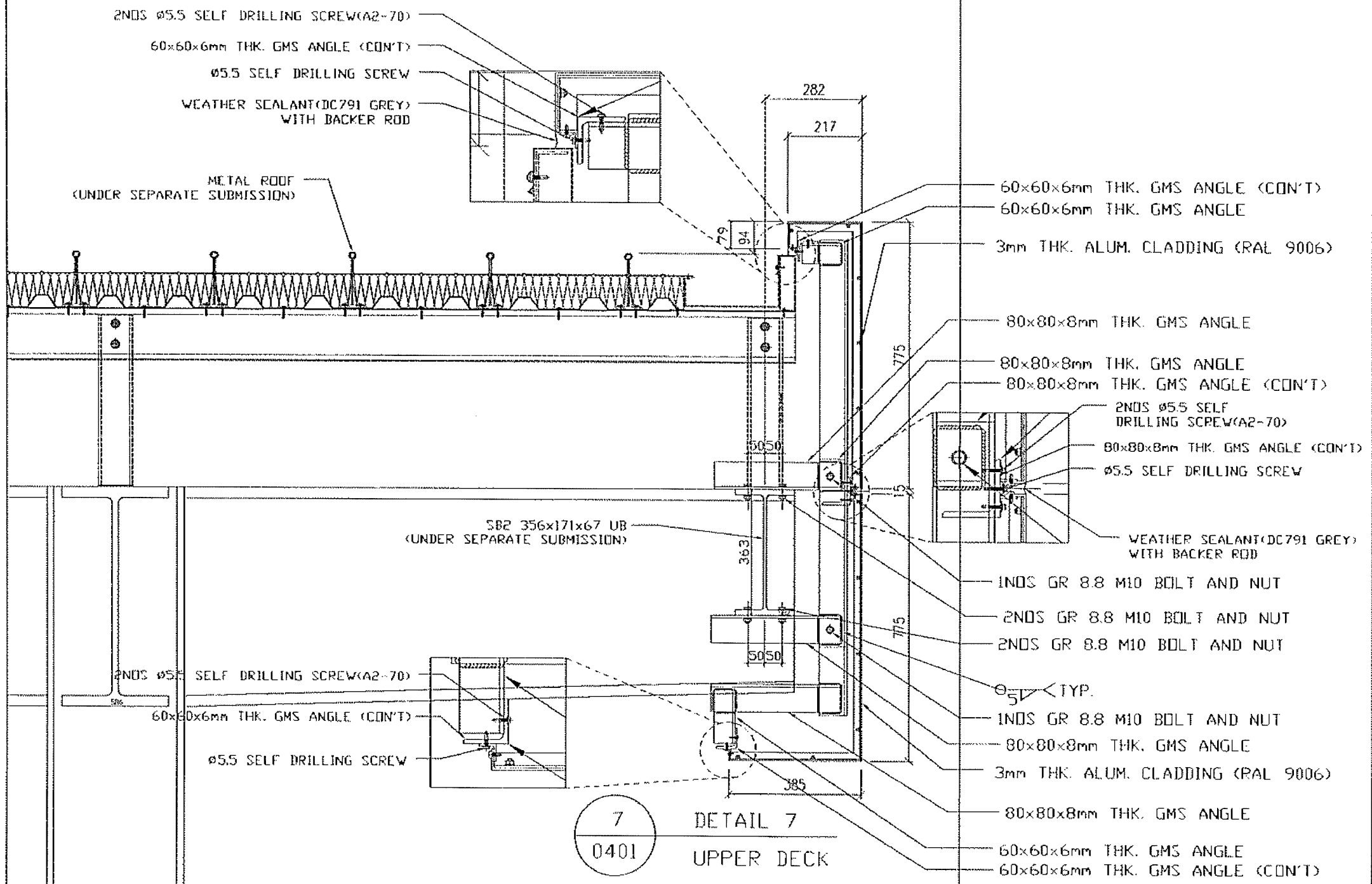
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CENTRAL - WAN CHAI BYPASS
TUNNEL BUILDING
MVB DETAIL 4

DOC. NO.
H2613/LJN/MVB/MDK/001/0434

DATE	BY	DATE	BY

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6



7
0401
DETAIL 7
UPPER DECK

NOTES:

MEMBER SIZE	GRADE
60x60x6mm THK. GA	S275JD
80x80x8mm THK. GA	S275JD

EDGE CLADDING SUB-FRAME SHOULD BE 1000±/c MAX. UNO.

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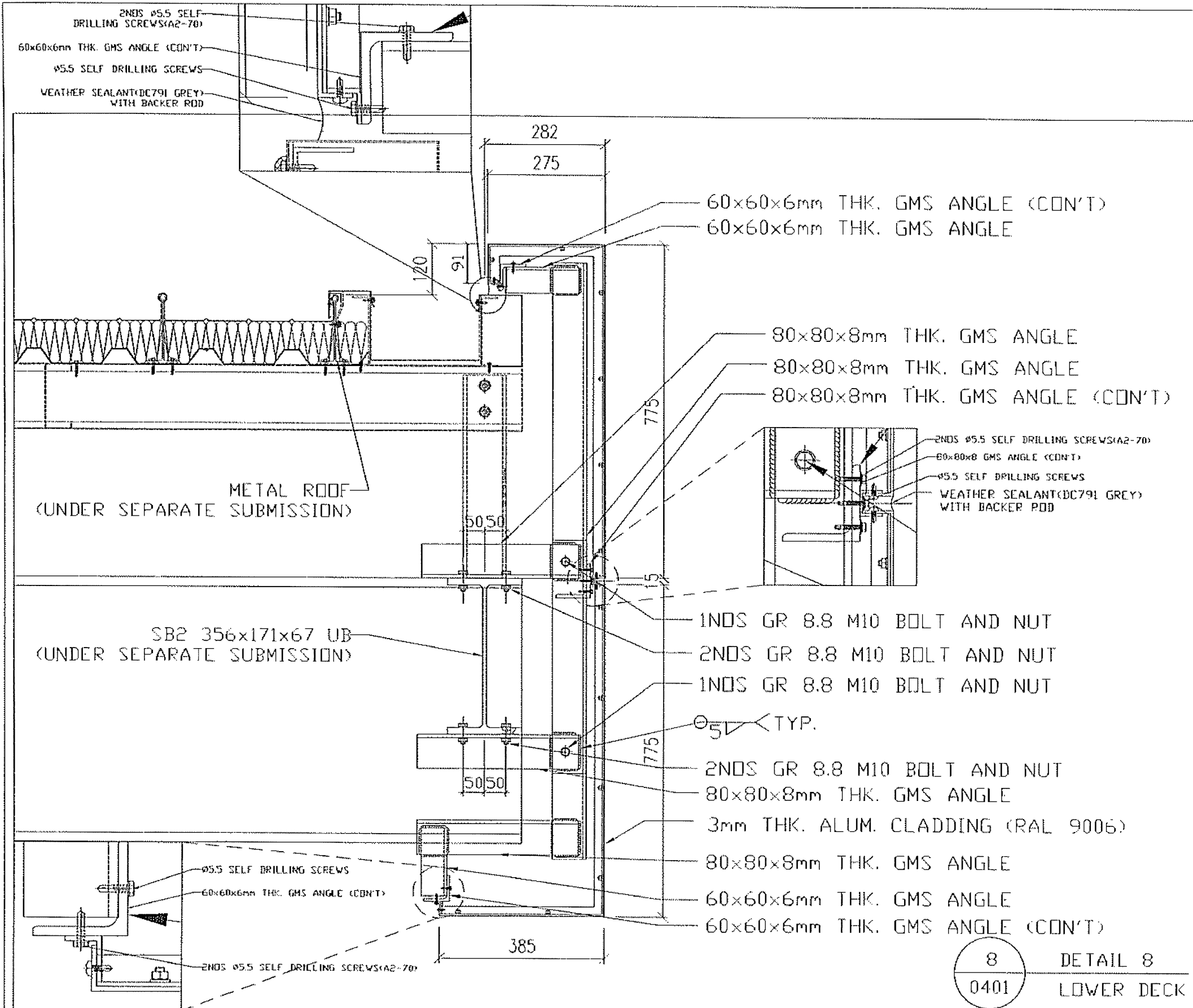
LEIGHTON JOINT VENTURE

ISSUING TITLE
CENTRAL - WAN CHAI BYPASS
TUNNEL BUILDING
MWB DETAIL 7

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NOTES.

MEMBER SIZE	QTY
60x60x6mm THK. EA	5775/0
80x80x8mm THK. EA	5355/0

EDGE CLADDING SUB-FRAME SHOULD BE 1000/± MAX. U.N.G

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 AND WORKS ASSOCIATED WITH TUNNEL CONNECTIONS
 CONTRACTOR
 AECOM Asia Co. Ltd.

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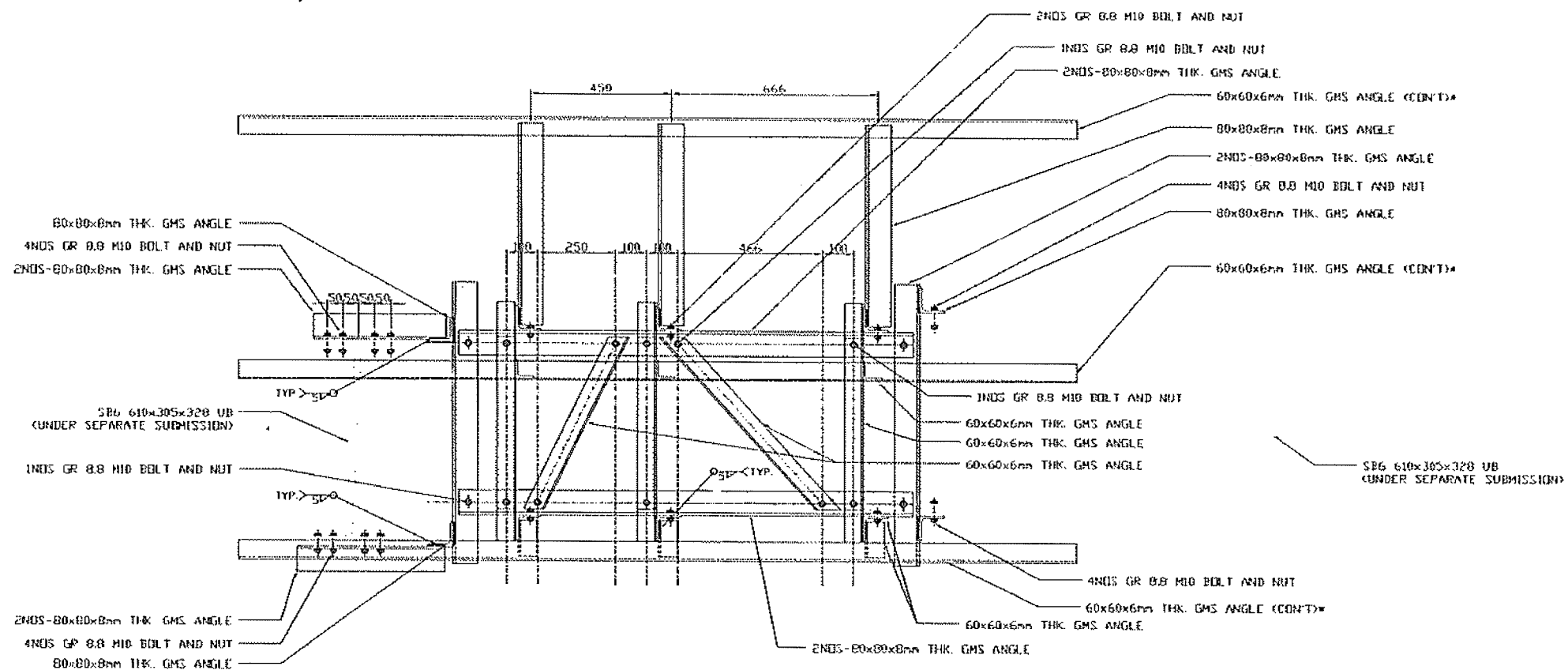
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 TUNNEL BUILDING
 WCH DECK 8

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 W & S 11261.5/LN/MVB/MDK/001/0428

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8
 0401
 DETAIL 8
 LOWER DECK

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9
0401

DETAIL 9
UPPER DECK

(CLADDING NOT SHOWN FOR CLARITY,
FOR FIXING DETAIL OF CLADDING, REFER TO DETAIL 2)

NOTES:

MEMBER SIZE	GRADE
60x60x6mm THK. GA	S275J0
80x80x8mm THK. GA	S275J0

EDGE CLADDING SUB-FRAME SHOULD BE 1000/± MAX. UNITS

*DON'T ANGLE FOR CONNECTING ALUMINUM CLADDING

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AND ITEMS ASSOCIATED WITH TUNNEL CONSTRUCTION

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DRAWING TITLE
CENTRAL - WAN CHAI BYPASS
TUNNEL BUILDINGS
W/UPPER DECK SOUTH-WEST CORNER DETAIL

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12613/LJV/MVD/MDK/001/0439

DATE	11/2011
SCALE	1/1
REVISION	11/A

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