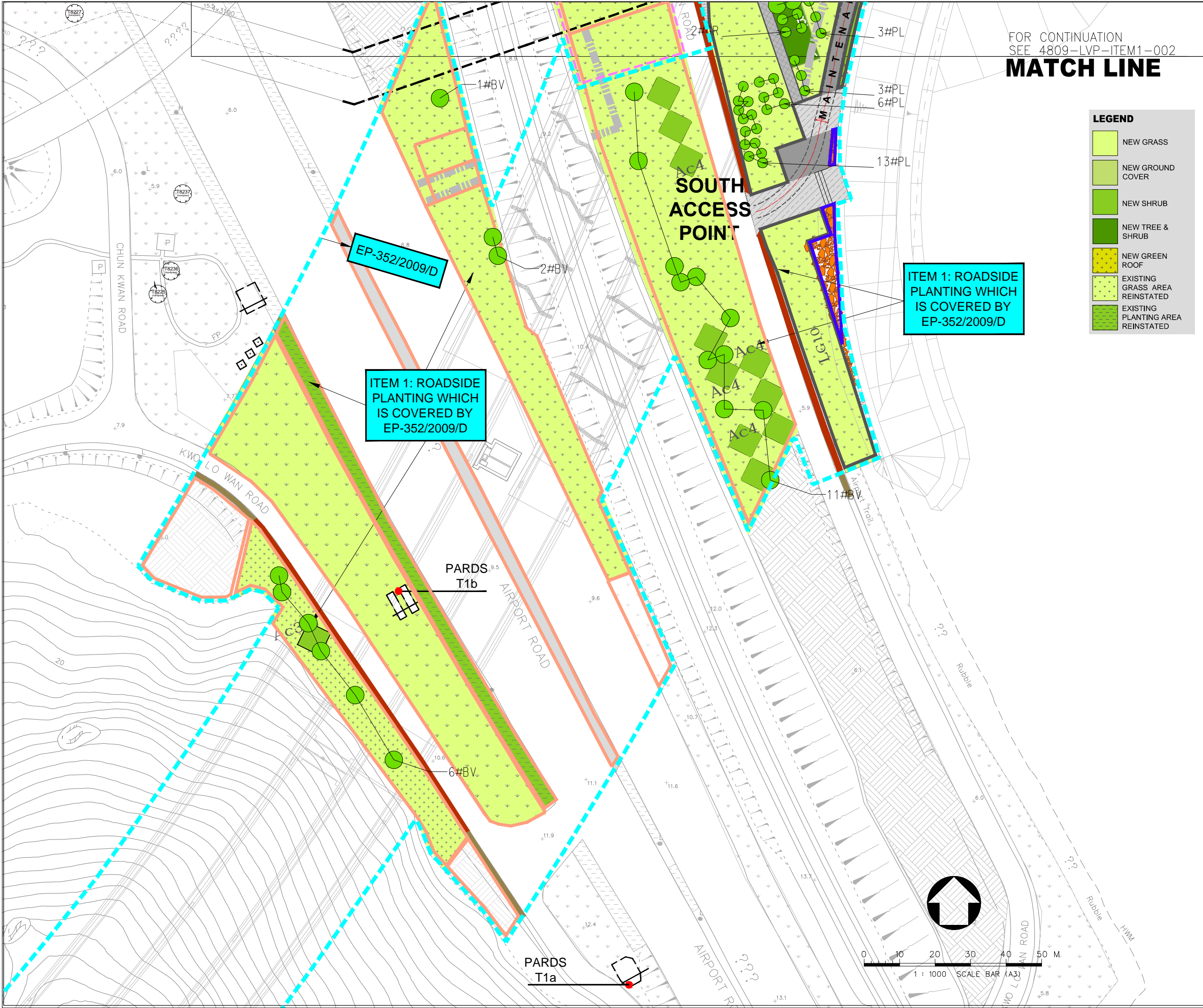


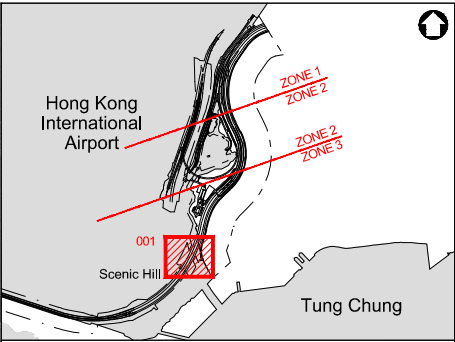


APPENDIX C: DETAIL MITIGATION MEASURES BLOW-UP PLANS DURING DETAILED DESIGN STAGE AND COMPENSATION PLANS



FOR CONTINUATION
SEE 4809-LVP-ITEM1-002
MATCH LINE

- LEGEND**
- NEW GRASS
 - NEW GROUND COVER
 - NEW SHRUB
 - NEW TREE & SHRUB
 - NEW GREEN ROOF
 - EXISTING GRASS AREA REINSTATED
 - EXISTING PLANTING AREA REINSTATED



- LEGEND :**
- EP-353/2009/K BOUNDARY
 - EP-352/2009/D BOUNDARY
 - FEP-01-352/2009/D BOUNDARY
 - EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
 - HIGHWAY DEPARTMENT
 - HONG KONG AIRPORT AUTHORITY (AAHK)
 - LANDSD
 - LCSD
 - TUNNEL CONTROL AUTHORITY (TD/MOm)

A		LVP SUBMISSION	LAM	31OCT19
Rev	Description	By	Date	

Supervising Officer
ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contractor
中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

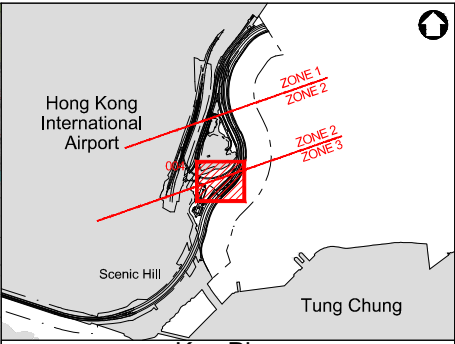
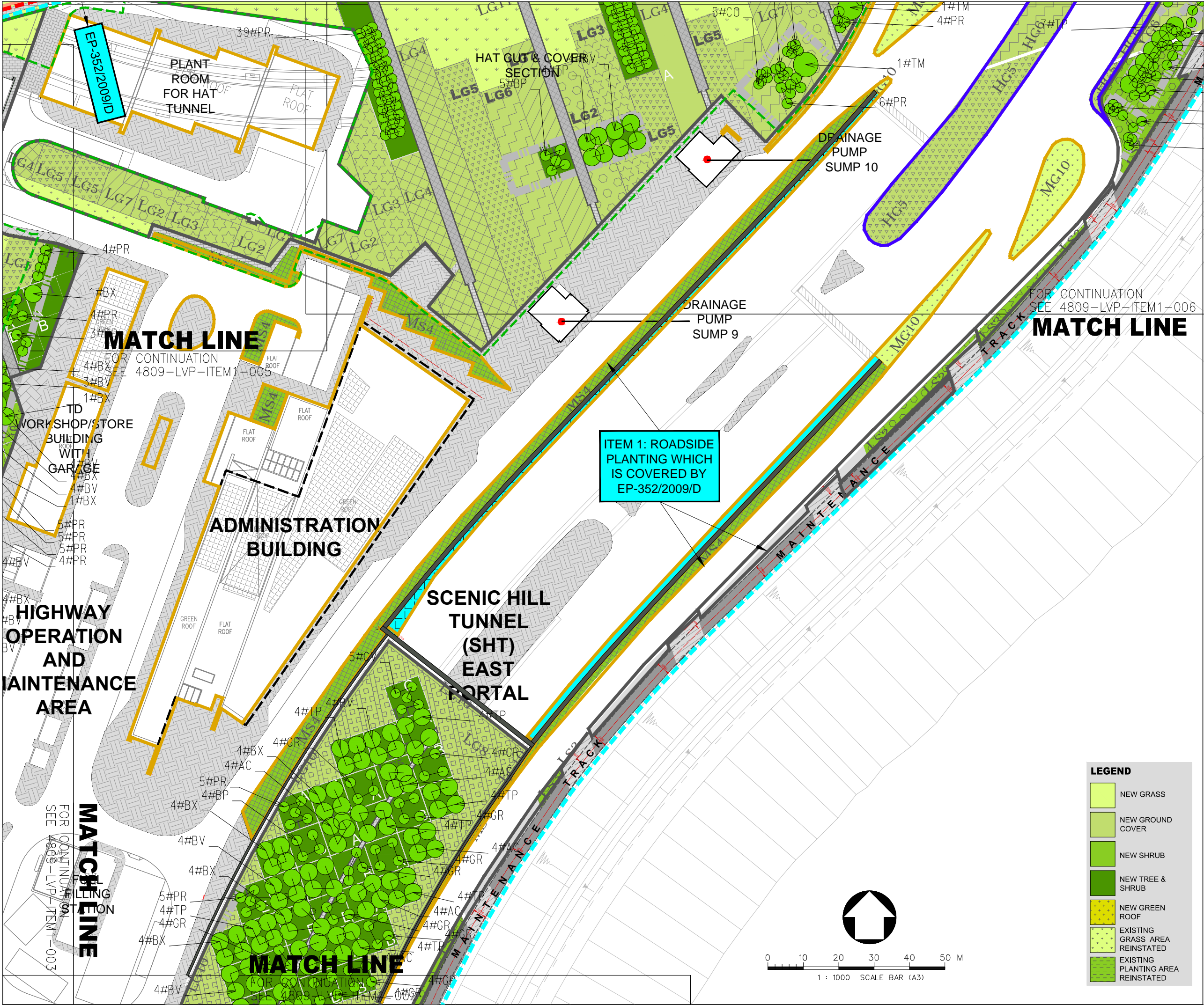
Contractor's Designer
ATKINS 阿特金斯

Contract No. and Title:
Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title
**DESIGN PHASE MITIGATION
MEASURES PLANS (LMM)
ITEM 1:
ROADSIDE PLANTING AND
PLANTING ALONG EDGE OF
RECLAMATION
(SHEET 1 OF 13)**

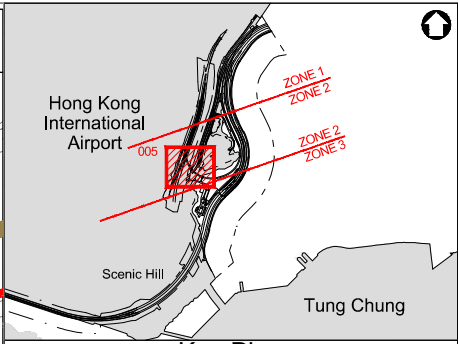
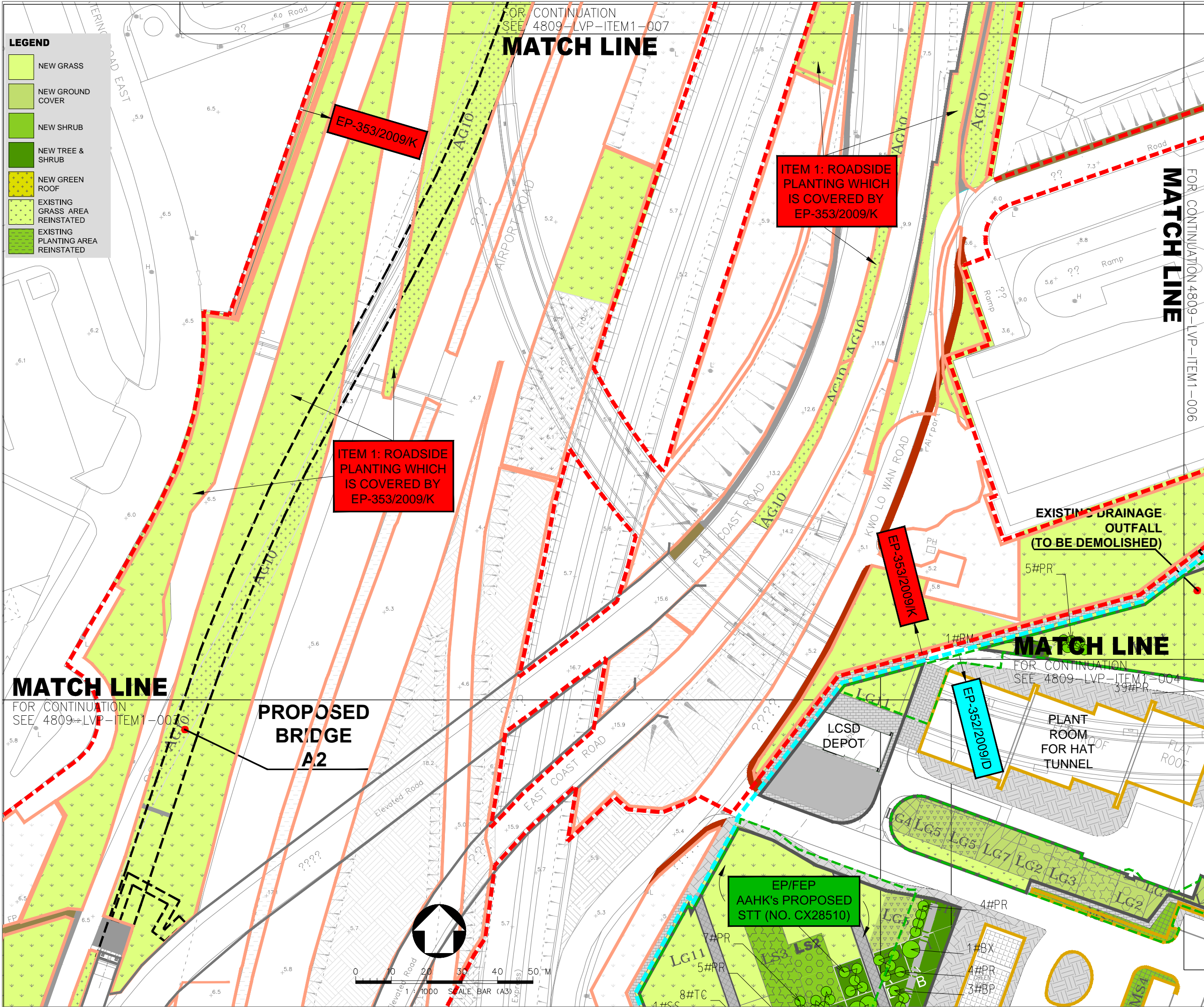
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Drawn	KIT	Date	31/10/2019	Checked	WK
Scale	1:500	Status	Approved LAM		

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Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office



- LEGEND :**
- EP-353/2009/K BOUNDARY
 - EP-352/2009/D BOUNDARY
 - FEP-01-352/2009/D BOUNDARY
 - EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
 - HIGHWAY DEPARTMENT
 - HONG KONG AIRPORT AUTHORITY (AAHK)
 - LANDSD
 - LCSD
 - TUNNEL CONTROL AUTHORITY (TD/MOm)

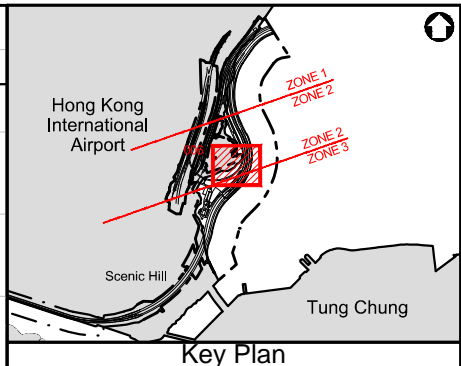
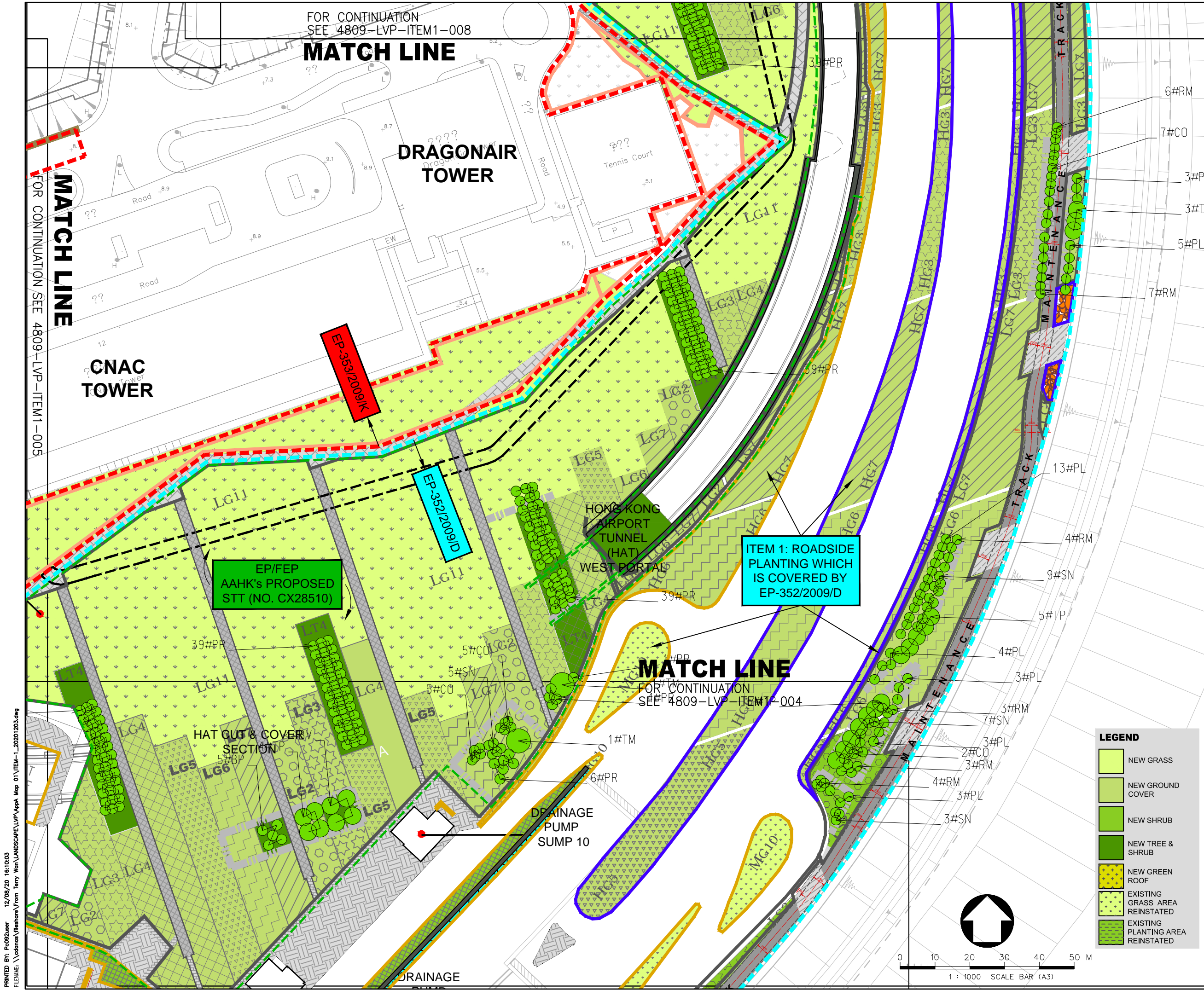
A	LVP SUBMISSION		LAM	31OCT19
Rev	Description		By	Date
Supervising Officer				
<div>ARUP</div> <div>奧雅納工程顧問</div> <div>Ove Arup & Partners Hong Kong Limited</div>				
Contractor				
<div> 中國建築工程(香港)有限公司</div> <div>CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.</div>				
Contractor's Designer				
<div>ATKINS</div> <div>阿特金斯</div>				
Contract No. and Title:				
Contract No. HY/2011/03				
Hong Kong-Zhuhai-Macao Bridge				
Hong Kong Link Road -				
Section Between Scenic Hill and				
Hong Kong Boundary Crossing Facilities				
Drawing title				
DESIGN PHASE MITIGATION				
MEASURES PLANS (LMM)				
ITEM 1:				
ROADSIDE PLANTING AND				
PLANTING ALONG EDGE OF				
RECLAMATION				
(SHEET 4 OF 13)				
Drawing no.			Rev.	
4809-LVP-ITEM1-004			A	
Drawn	Date	Checked	Approved	
KIT	31/10/2019	WK	LAM	
Scale	Status			
1:500	-			
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LEGEND :

- EP-353/2009/K BOUNDARY
- EP-352/2009/D BOUNDARY
- FEP-01-352/2009/D BOUNDARY
- EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
- HIGHWAY DEPARTMENT
- HONG KONG AIRPORT AUTHORITY (AAHK)
- LANDSD
- LCSD
- TUNNEL CONTROL AUTHORITY (TD/MOm)

A LVP SUBMISSION		LAM	31OCT19
Rev	Description	By	Date
Supervising Officer			
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited			
Contractor 中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.			
Contractor's Designer ATKINS 阿特金斯			
Contract No. and Title: Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities			
Drawing title DESIGN PHASE MITIGATION MEASURES PLANS (LMM) ITEM 1: ROADSIDE PLANTING AND PLANTING ALONG EDGE OF RECLAMATION (SHEET 5 OF 13)			
Drawing no. 4809-LVP-ITEM1-005		Rev. A	
Drawn KIT	Date 31/10/2019	Checked WK	Approved LAM
Scale @ A1 1:500		Status —	
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- LEGEND :**
- EP-353/2009/K BOUNDARY
 - EP-352/2009/D BOUNDARY
 - FEP-01-352/2009/D BOUNDARY
 - EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
 - HIGHWAY DEPARTMENT
 - HONG KONG AIRPORT AUTHORITY (AAHK)
 - LANDSD
 - LCSD
 - TUNNEL CONTROL AUTHORITY (TD/MO)

A	LVP SUBMISSION			LAM	31OCT19
Rev	Description			By	Date
Supervising Officer					
<div>ARUP</div> <div>奧雅納工程顧問</div> <div>Ove Arup & Partners Hong Kong Limited</div>					
Contractor					
<div> 中國建築工程(香港)有限公司</div> <div>CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.</div>					
Contractor's Designer					
<div>ATKINS</div> <div>阿特金斯</div>					
Contract No. and Title:					
Contract No. HY/2011/03					
Hong Kong-Zhuhai-Macao Bridge					
Hong Kong Link Road -					
Section Between Scenic Hill and					
Hong Kong Boundary Crossing Facilities					
Drawing title					
DESIGN PHASE MITIGATION					
MEASURES PLANS (LMM)					
ITEM 1:					
ROADSIDE PLANTING AND					
PLANTING ALONG EDGE OF					
RECLAMATION					
(SHEET 6 OF 13)					
Drawing no.				Rev.	
4809-LVP-ITEM1-006				A	
Drawn	Date	Checked	Approved		
KIT	31/10/2019	WK	LAM		
Scale	A1		Status		
1:500		-			
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FOR CONTINUATION
SEE 44809-LVP-ITEM1-009

MATCH LINE

LEGEND

- NEW GRASS
- NEW GROUND COVER
- NEW SHRUB
- NEW TREE & SHRUB
- NEW GREEN ROOF
- EXISTING GRASS AREA REINSTATED
- EXISTING PLANTING AREA REINSTATED

**HONG KONG AIRPORT
TUNNEL
(HAT)
EAST PORTAL**

**BRIDGE
A2**

ITEM 1: ROADSIDE
PLANTING WHICH
IS COVERED BY
EP-353/2009/K

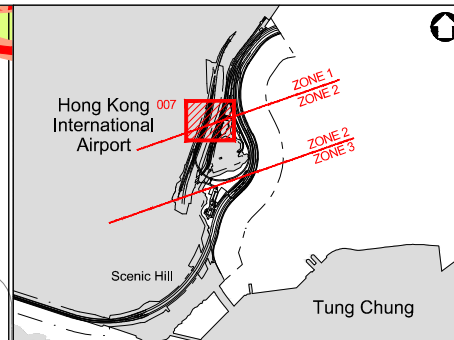
EP-353/2009/K

ITEM 1: ROADSIDE
PLANTING WHICH
IS COVERED BY
EP-353/2009/K

**CAD
HEADQUARTERS**

**CAD
ANTENNA
FARM**

MATCH LINE



Key Plan

LEGEND :

- EP-353/2009/K BOUNDARY
- EP-352/2009/D BOUNDARY
- FEP-01-352/2009/D BOUNDARY
- EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
- HIGHWAY DEPARTMENT
- HONG KONG AIRPORT AUTHORITY (AAHK)
- LANDSD
- LCSD
- TUNNEL CONTROL AUTHORITY (TD/MOm)

A	LVP SUBMISSION	LAM	31OCT19
Rev	Description	By	Date
Supervising Officer			

ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contractor
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.
Contractor's Designer

ATKINS 阿特金斯

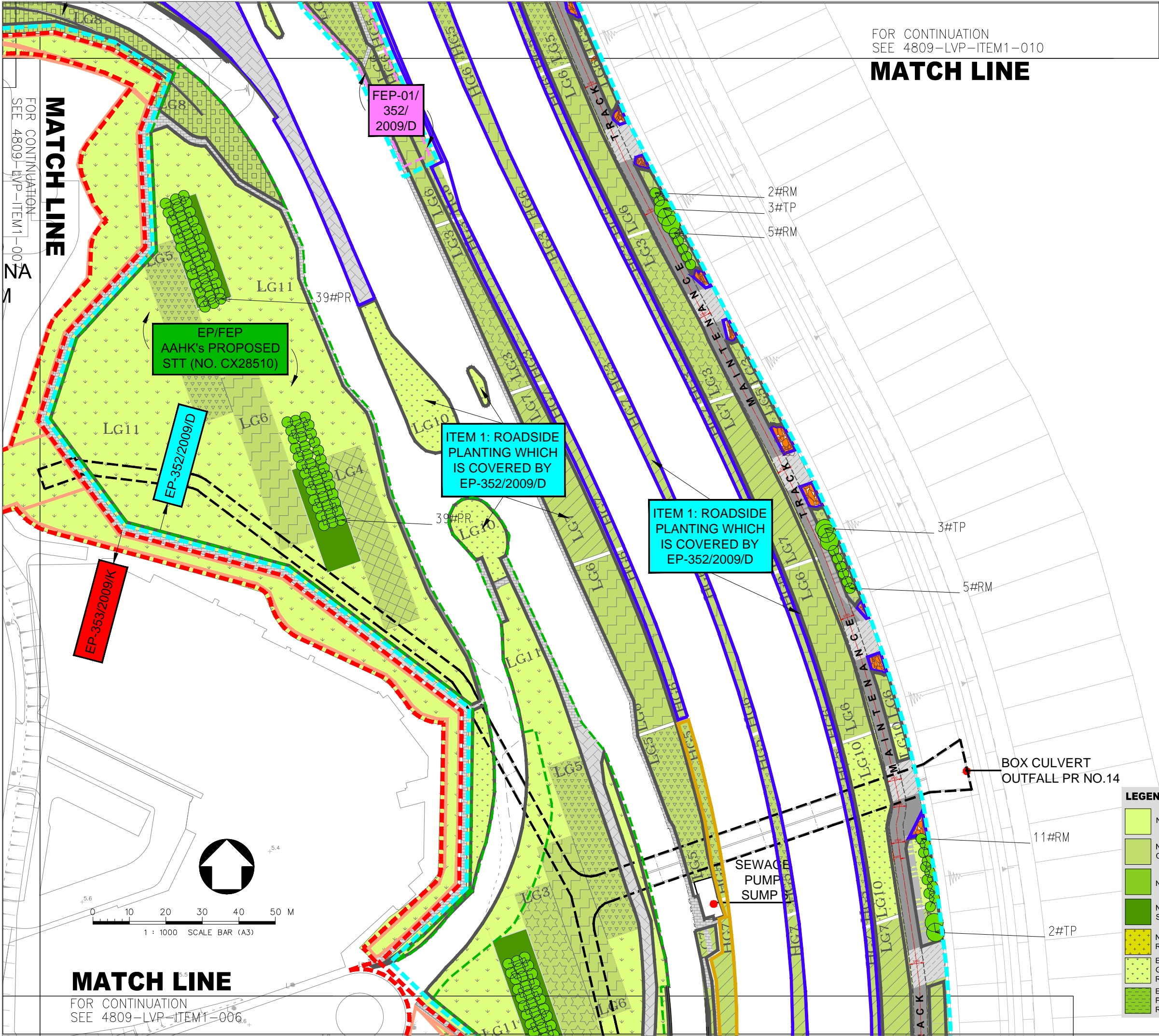
Contract No. and Title:
Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title
**DESIGN PHASE MITIGATION
MEASURES PLANS (LMM)
ITEM 1:
ROADSIDE PLANTING AND
PLANTING ALONG EDGE OF
RECLAMATION
(SHEET 7 OF 13)**

Drawn KIT	Date 31/10/2019	Checked WK	Approved LAM
Scale A1	1:500	Status —	

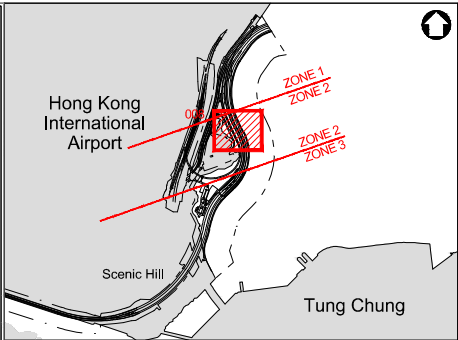
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Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office



FOR CONTINUATION
SEE 4809-LVP-ITEM1-010

MATCH LINE



Key Plan

LEGEND :

- EP-353/2009/K BOUNDARY
- EP-352/2009/D BOUNDARY
- FEP-01-352/2009/D BOUNDARY
- EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
- HIGHWAY DEPARTMENT
- HONG KONG AIRPORT AUTHORITY (AAHK)
- LANDSD
- LCSD
- TUNNEL CONTROL AUTHORITY (TD/MOm)

A LVP SUBMISSION		TW	31OCT19
Rev	Description	By	Date

Supervising Officer
ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contractor
CSCEC 中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Contractor's Designer
ATKINS 阿特金斯

Contract No. and Title:
Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title
DESIGN PHASE MITIGATION MEASURES PLANS (LMM)
ITEM 1: ROADSIDE PLANTING AND PLANTING ALONG EDGE OF RECLAMATION
(SHEET 8 OF 13)

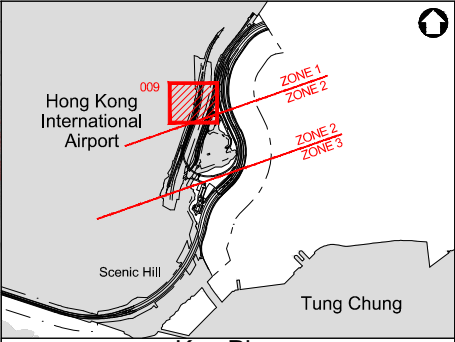
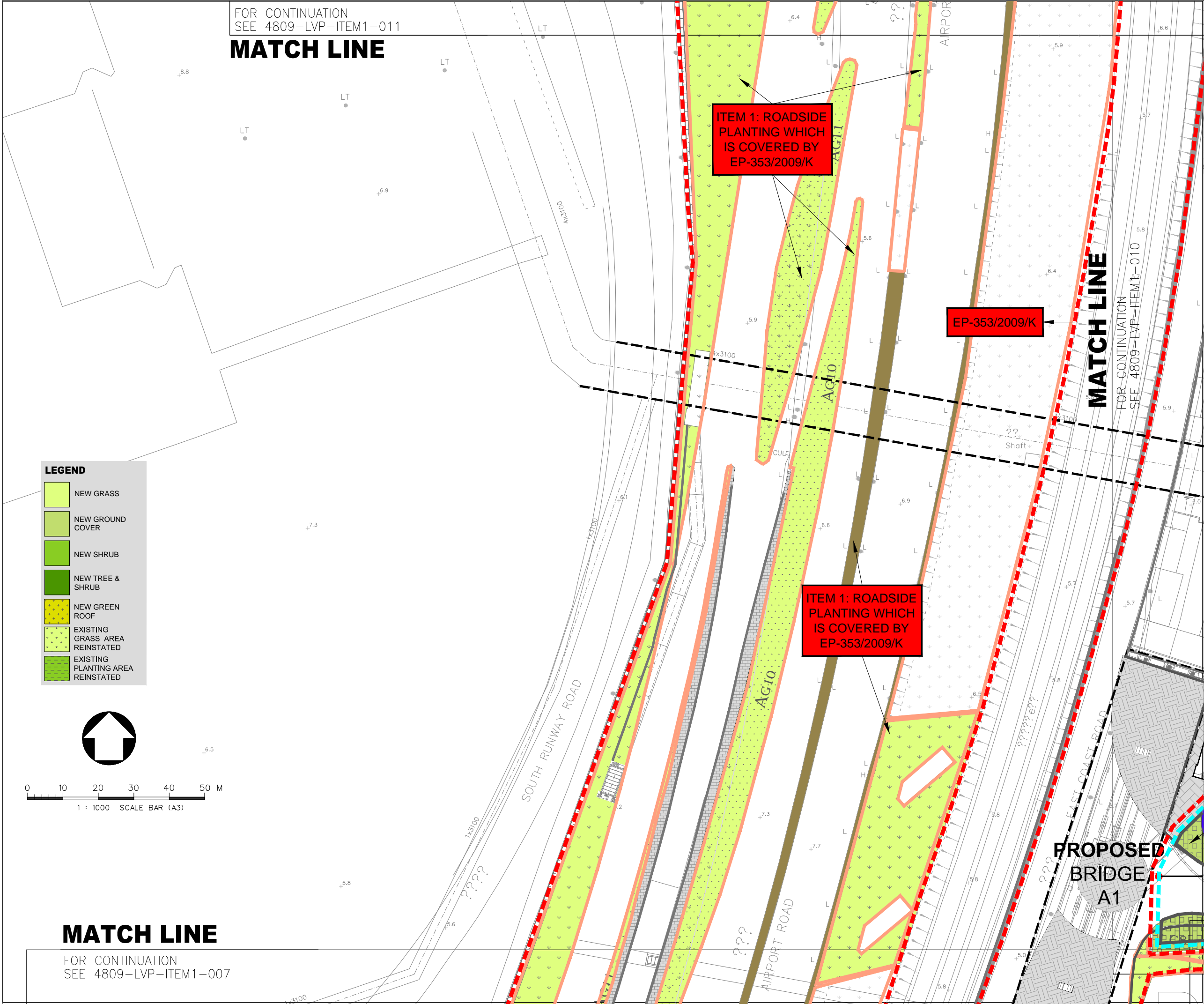
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Drawn KIT	Date 31/10/2019	Checked WK
Scale 1:500	Status	Approved LAM

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- LEGEND**
- NEW GRASS
 - NEW GROUND COVER
 - NEW SHRUB
 - NEW TREE & SHRUB
 - NEW GREEN ROOF
 - EXISTING GRASS AREA REINSTATED
 - EXISTING PLANTING AREA REINSTATED

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LEGEND :	
	EP-353/2009/K BOUNDARY
	EP-352/2009/D BOUNDARY
	FEP-01-352/2009/D BOUNDARY
	EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
	HIGHWAY DEPARTMENT
	HONG KONG AIRPORT AUTHORITY (AAHK)
	LANDSD
	LCSD
	TUNNEL CONTROL AUTHORITY (TD/MOm)

A	LVP SUBMISSION	LAM	31OCT19
Rev	Description	By	Date
Supervising Officer			
ARUP		奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited	
Contractor			
		中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.	
Contractor's Designer			
		阿特金斯	
Contract No. and Title:			
Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities			
Drawing title			
DESIGN PHASE MITIGATION MEASURES PLANS (LMM) ITEM 1: ROADSIDE PLANTING AND PLANTING ALONG EDGE OF RECLAMATION (SHEET 9 OF 13)			
Drawing no.		4809-LVP-ITEM1-009	Rev. A
Drawn KIT	Date 31/10/2019	Checked WK	Approved LAM
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MATCH LINE

LEGEND

NEW GRASS

NEW GROUND COVER

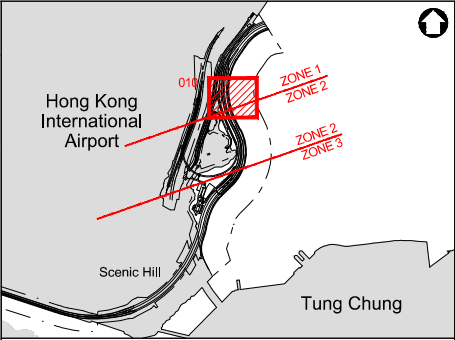
NEW SHRUB

NEW TREE & SHRUB

NEW GREEN ROOF

EXISTING GRASS AREA REINSTATED

EXISTING PLANTING AREA REINSTATED



Key Plan

LEGEND :

EP-353/2009/K BOUNDARY

EP-352/2009/D BOUNDARY

FEP-01-352/2009/D BOUNDARY

EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY

HIGHWAY DEPARTMENT

HONG KONG AIRPORT AUTHORITY (AAHK)

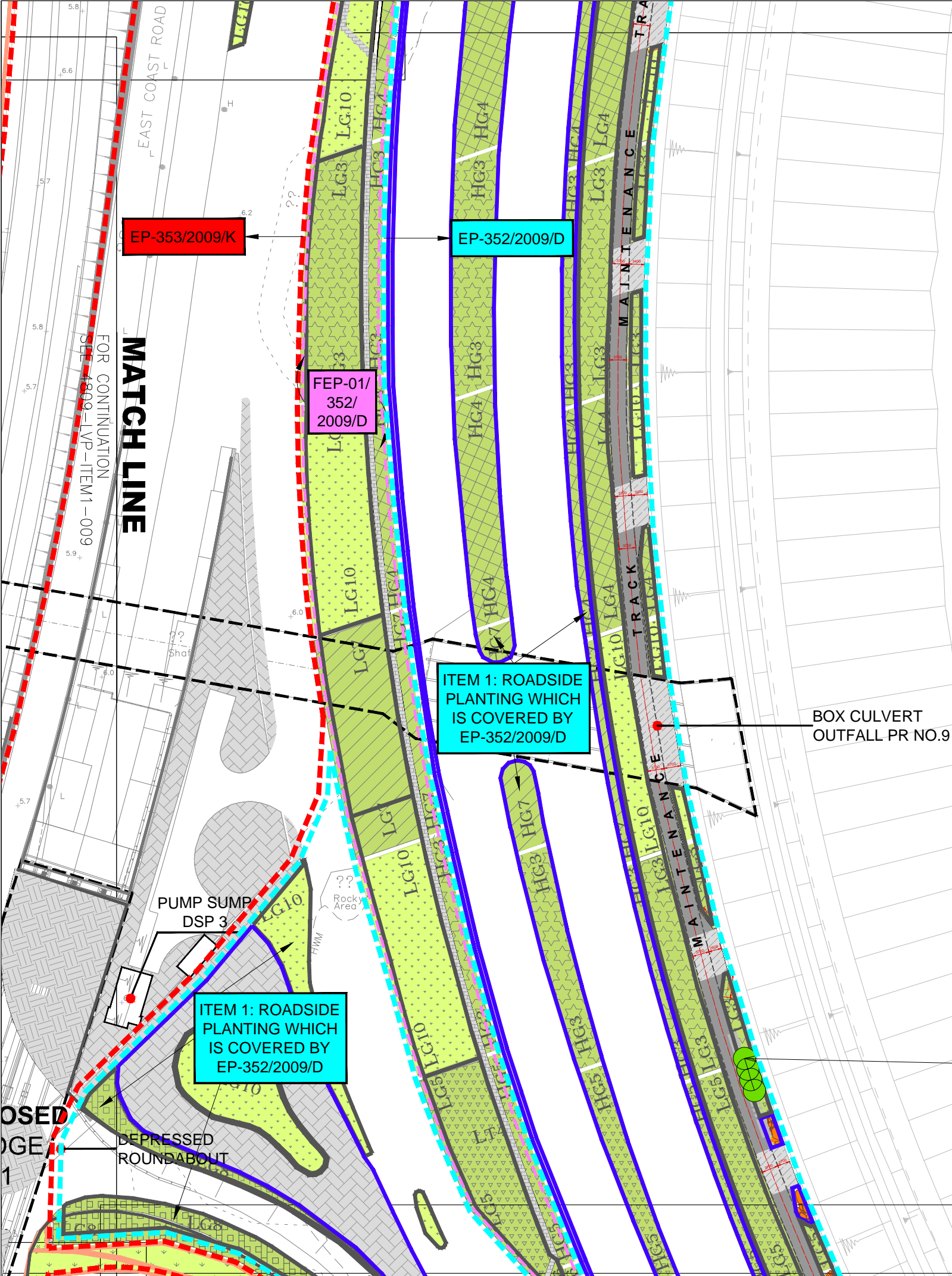
LANDSD

LCSD

TUNNEL CONTROL AUTHORITY (TD/MOm)

A	LVP SUBMISSION		LAM	31OCT19			
Rev	Description		By	Date			
Supervising Officer							
<div>ARUP 奧雅納工程顧問</div> <div>Ove Arup & Partners Hong Kong Limited</div>							
Contractor							
<div> 中國建築工程(香港)有限公司</div> <div>CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.</div>							
Contractor's Designer							
<div>ATKINS 阿特金斯</div>							
Contract No. and Title:							
Contract No. HY/2011/03							
Hong Kong-Zhuhai-Macao Bridge							
Hong Kong Link Road -							
Section Between Scenic Hill and							
Hong Kong Boundary Crossing Facilities							
Drawing title							
DESIGN PHASE MITIGATION							
MEASURES PLANS (LMM)							
ITEM 1:							
ROADSIDE PLANTING AND							
PLANTING ALONG EDGE OF							
RECLAMATION							
(SHEET 10 OF 13)							
Drawing no.			4809-LVP-ITEM1-010	Rev. A			
Drawn	KIT	Date	31/10/2019	Checked	TW	Approved	TW
Scale	1:500	Status		-			

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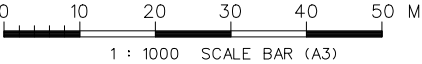
BOX CULVERT
OUTFALL PR NO.9

PUMP SUMP
DSP 3

ITEM 1: ROADSIDE
PLANTING WHICH
IS COVERED BY
EP-352/2009/D

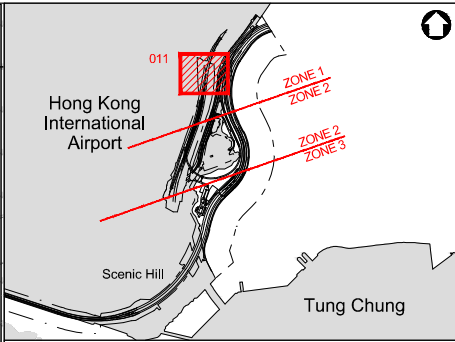
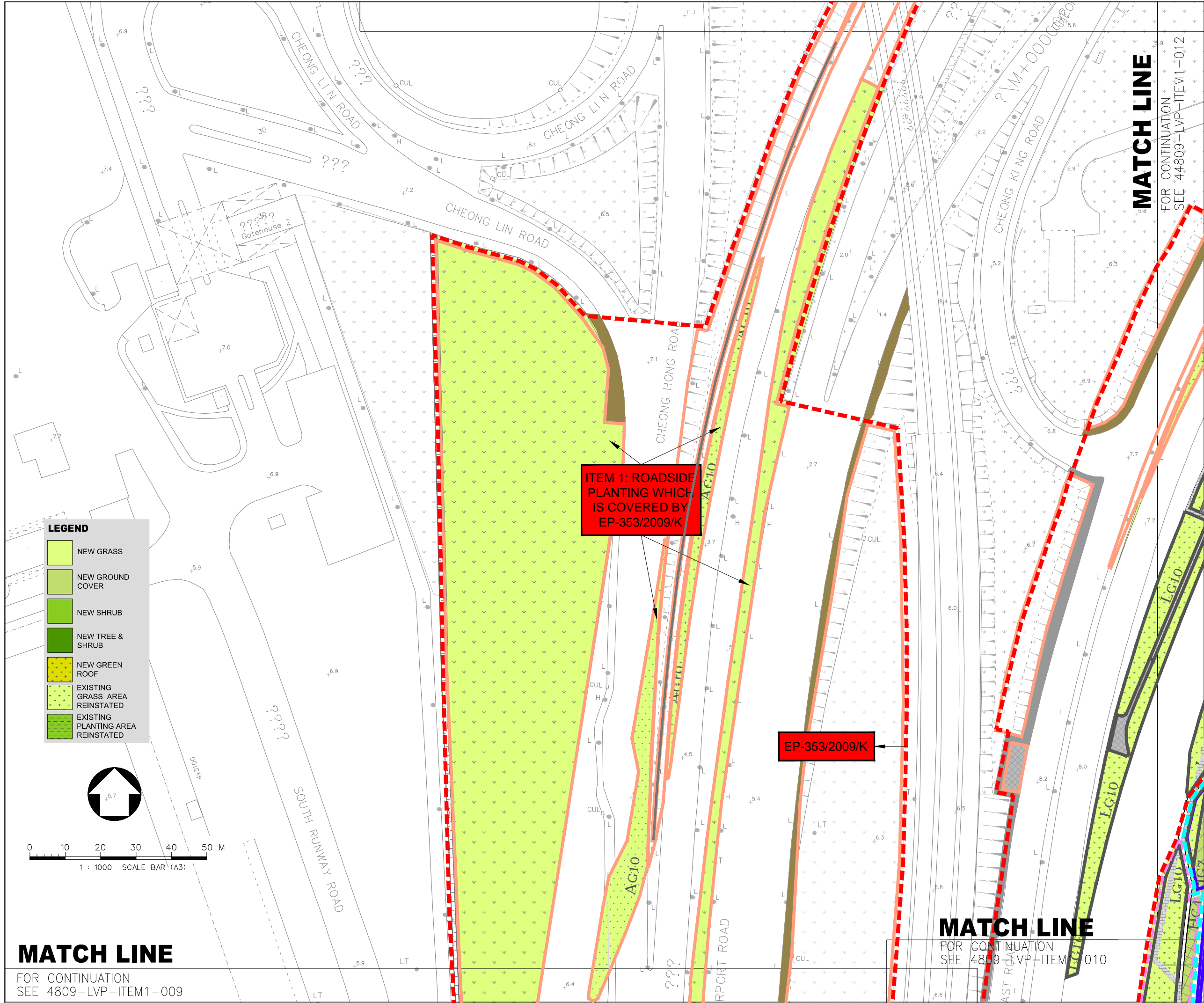
ITEM 1: ROADSIDE
PLANTING WHICH
IS COVERED BY
EP-352/2009/D

4#TP



MATCH LINE

FOR CONTINUATION
SEE 4809-LVP-ITEM1-008



Key Plan

LEGEND :

- EP-353/2009/K BOUNDARY
- EP-352/2009/D BOUNDARY
- FEP-01/352/2009/D BOUNDARY
- EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
- HIGHWAY DEPARTMENT
- HONG KONG AIRPORT AUTHORITY (AAHK)
- LANDSD
- LCSD
- TUNNEL CONTROL AUTHORITY (TD/MOm)

Rev	Description	By	Date
A	LVP SUBMISSION	LAM	31OCT19

Supervising Officer

ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contractor

中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Contractor's Designer

ATKINS 阿特金斯

Contract No. and Title:

Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title

DESIGN PHASE MITIGATION MEASURES PLANS (LMM)
ITEM 1:
ROADSIDE PLANTING AND PLANTING ALONG EDGE OF RECLAMATION
(SHEET 11 OF 13)

Drawing no.	Rev.
4809-LVP-ITEM1-011	A

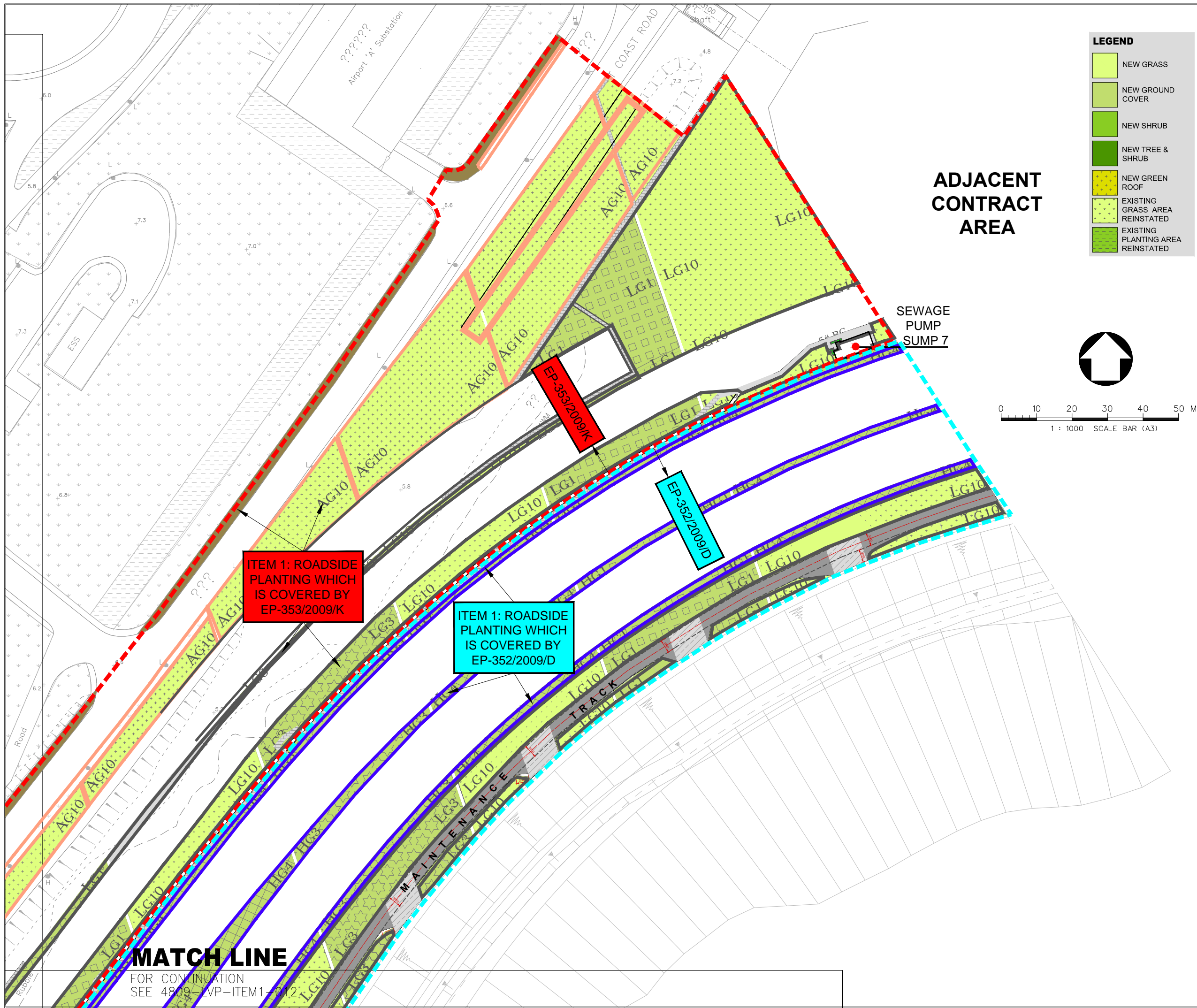
Drawn	Date	Checked	Approved
KIT	31/10/2019	WK	LAM

Scale: A1 1:500 Status: -

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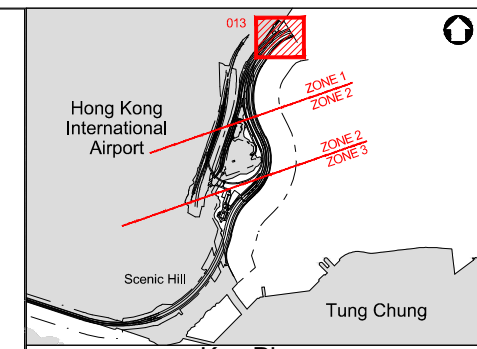
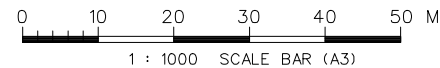
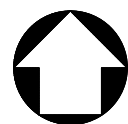
HIGHWAYS DEPARTMENT
香港機場管理局
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

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LEGEND

- NEW GRASS
- NEW GROUND COVER
- NEW SHRUB
- NEW TREE & SHRUB
- NEW GREEN ROOF
- EXISTING GRASS AREA REINSTATED
- EXISTING PLANTING AREA REINSTATED



LEGEND :

- EP-353/2009/K BOUNDARY
- EP-352/2009/D BOUNDARY
- FEP-01/352/2009/D BOUNDARY
- EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
- HIGHWAY DEPARTMENT
- HONG KONG AIRPORT AUTHORITY (AAHK)
- LANDSD
- LCSD
- TUNNEL CONTROL AUTHORITY (TD/MOm)

A		LVP SUBMISSION		LAM	31OCT19
Rev	Description	By	Date		
Supervising Officer					
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited					
Contractor 中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.					
Contractor's Designer ATKINS 阿特金斯					
Contract No. and Title: Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities					
Drawing title DESIGN PHASE MITIGATION MEASURES PLANS (LMM) ITEM 1: ROADSIDE PLANTING AND PLANTING ALONG EDGE OF RECLAMATION (SHEET 13 OF 13)					
Drawing no. 4809-LVP-ITEM1-013		Rev. A			
Drawn KIT	Date 31/10/2019	Checked WK	Approved LAM		
Scale A1	1:500	Status —			
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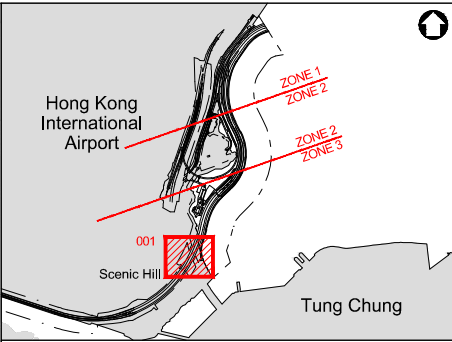
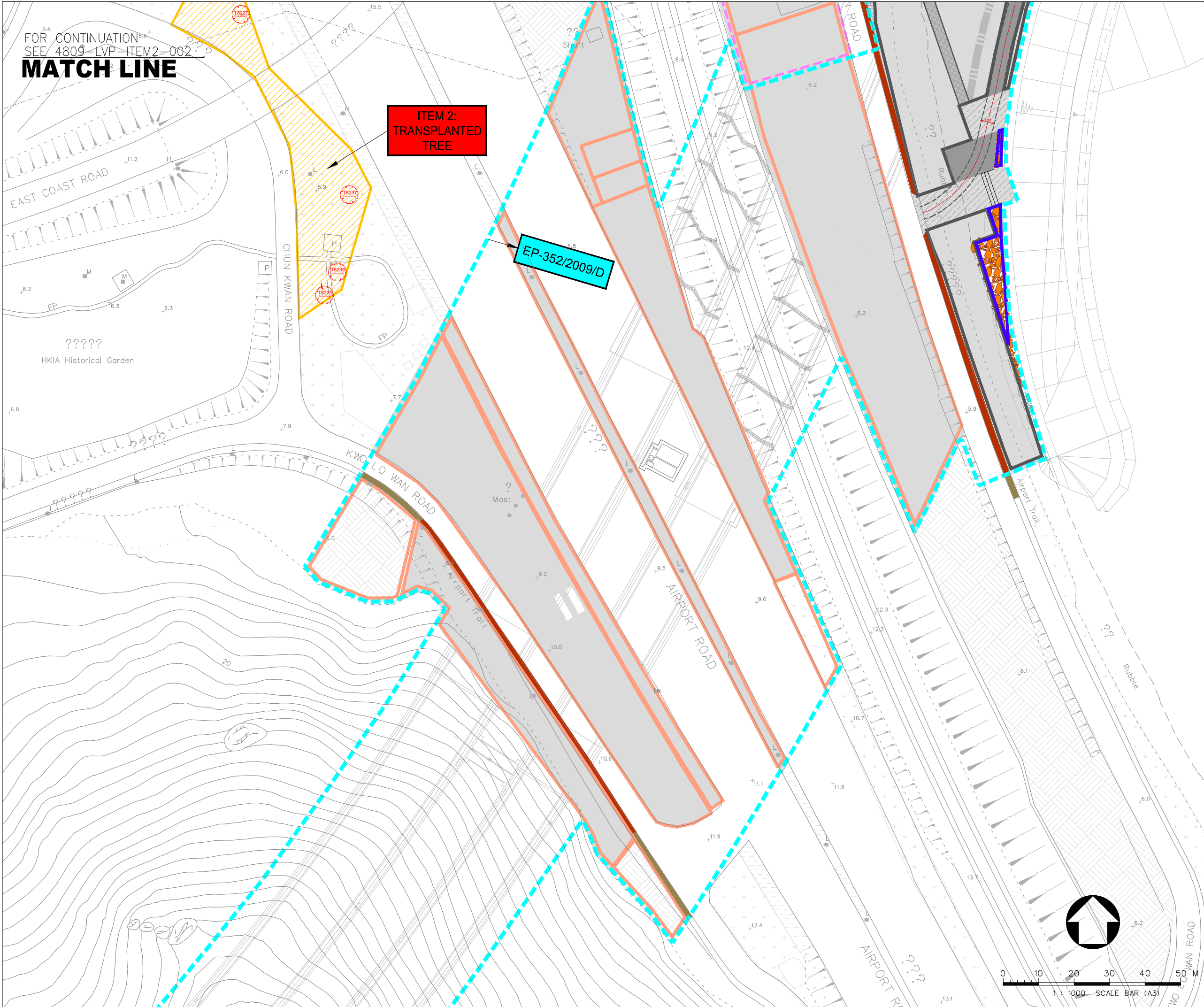


Item 1 - Roadside planting is proposed
(Refer to Section 4.3 of LVP)

Rev	Description	By	Date
Consultant			
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited			
Contract No. and Title:			
Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities			
Drawing title			
Design Phase Mitigation Measures Plans (LMM) Roadside Planting along Airport Road			
Drawing no.		Rev.	
Item 1			
Drawn	Date	Checked	Approved
Scale	Status		

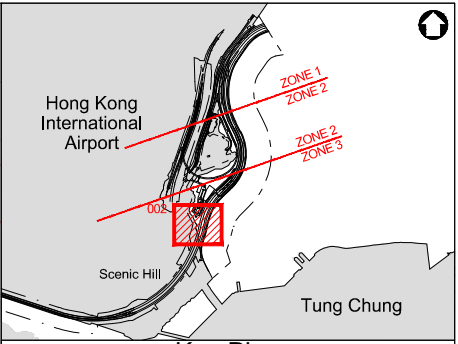
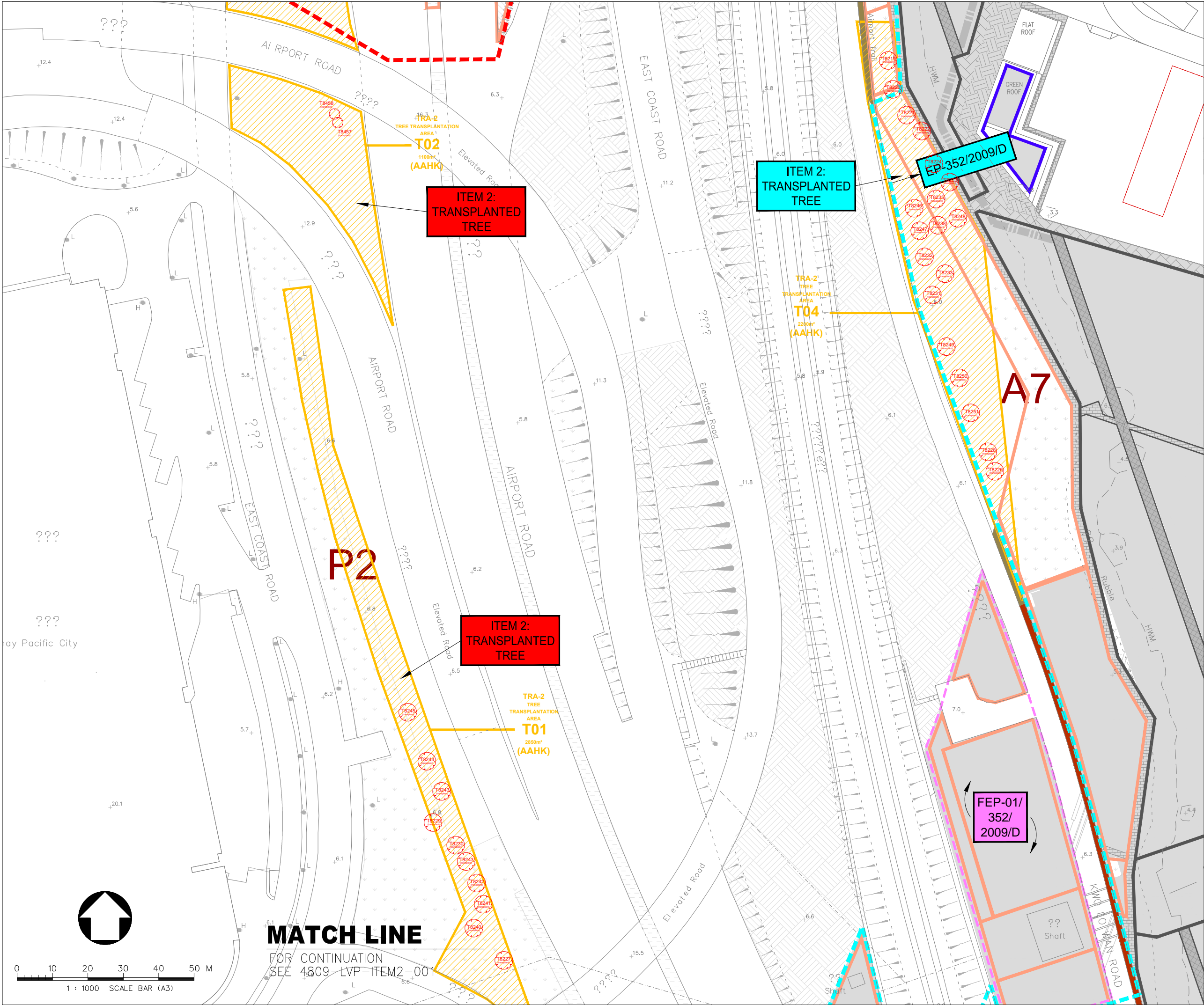
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PRINTED BY: PC092user 12/08/20 16:36:37
FILENAME: \\cedas\fileshare\From Terry Wan\LANDSCAPE\LVP\AppA Map 01\ITEM-2_20200824.dwg



LEGEND :	
	TRANSPLANTATION AREA
	TRANSPLANT TREE
	UNDER EP-353/2009/K
	UNDER EP-352/2009/D
	FEP-01/352/2009/D BOUNDARY
	HIGHWAY DEPARTMENT
	HONG KONG AIRPORT AUTHORITY (AAHK)
	LANDSD
	LCSD
	TUNNEL CONTROL AUTHORITY (TD/MOm)

A LVP SUBMISSION		LAM	31OCT19
Rev	Description	By	Date
Supervising Officer			
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited			
Contractor 中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.			
Contractor's Designer ATKINS 阿特金斯			
Contract No. and Title: Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities			
Drawing title DESIGN PHASE MITIGATION MEASURES PLANS (LMM) ITEM 2: TREES TRANSPLANT LAYOUT PLAN (SHEET 1 OF 2)			
Drawing no. 4809-LVP-ITEM2-001		Rev. A	
Drawn KIT	Date 31/10/2019	Checked WK	Approved LAM
Scale @ A1	1:500	Status -	
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LEGEND :

- TRANSPANTATION AREA
- TRANSPANT TREE
- ITEM 2: TRANSPANTED TREE UNDER EP-353/2009/K
- ITEM 2: TRANSPANTED TREE UNDER EP-352/2009/D
- FEP-01/352/2009/D BOUNDARY
- HIGHWAY DEPARTMENT
- HONG KONG AIRPORT AUTHORITY (AAHK)
- LANDSD
- LCSD
- TUNNEL CONTROL AUTHORITY (TD/MOm)

A LVP SUBMISSION		LAM	31OCT19
Rev	Description	By	Date
Supervising Officer			
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited			
Contractor			
中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.			
Contractor's Designer			
ATKINS 阿特金斯			
Contract No. and Title:			
Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities			
Drawing title			
DESIGN PHASE MITIGATION MEASURES PLANS (LMM) ITEM 2: TREES TRANSPANT LAYOUT PLAN (SHEET 2 OF 2)			
Drawing no.		Rev.	
4809-LVP-ITEM2-002		A	
Drawn	Date	Checked	Approved
KIT	31/10/2019	WK	LAM
Scale	1:500	Status	
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Item 2 - Transplanting of mature trees in good health and amenity value and reinstatement of areas disturbed during construction by compensatory planting

(Refer to Section 4.3 of LVP)

Rev	Description	By	Date

Consultant
ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contract No. and Title:
Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title
**Design Phase Mitigation
Measures Plans (LMM)
Tree Transplanting Works
at Kwo Lo Wan Road**

Drawing no. Item 2		Rev.	
Drawn	Date	Checked	Approved
Scale	Status		



Item 3 - Protection measures for the trees to be retained during construction activities
(Refer to Section 4.3 of LVP)

Rev	Description	By	Date

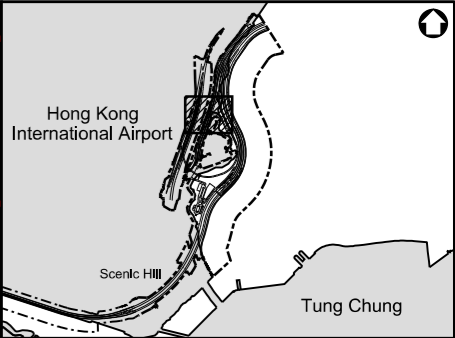
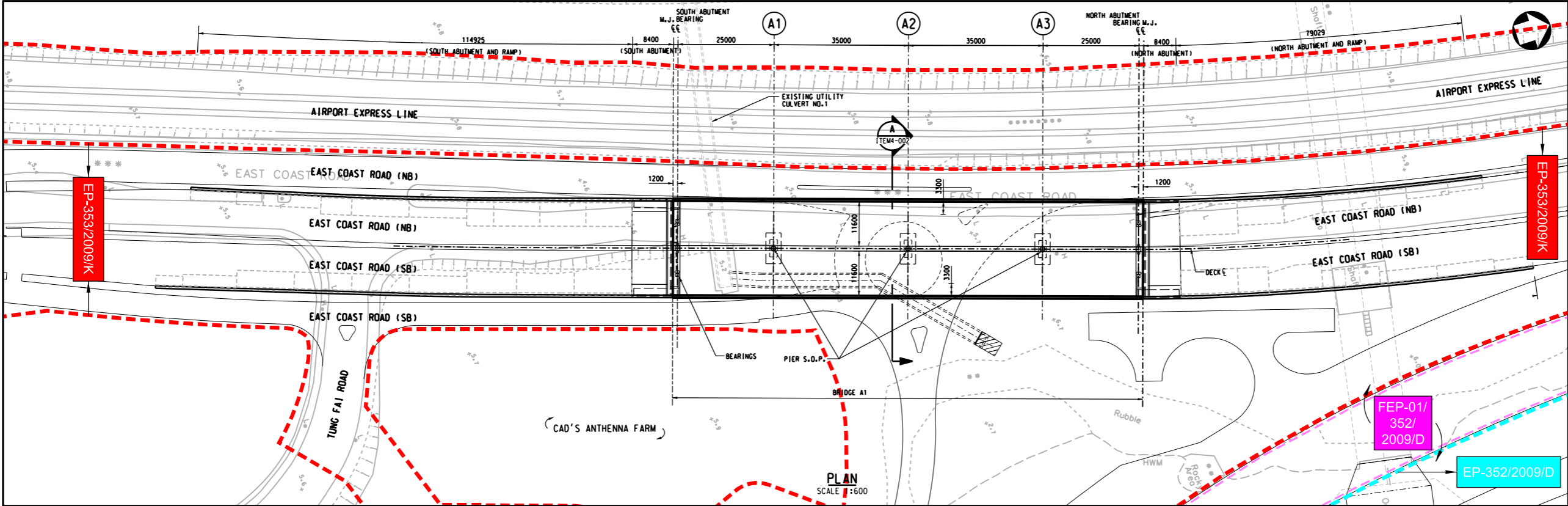
Consultant
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited

Contract No. and Title:
Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities

Drawing title
Design Phase Mitigation Measures Plans (LMM) Tree Protection Measures during Construction Activities

Drawing no.		Item 3		Rev.	
Drawn		Date		Checked	
				Approved	
Scale				Status	

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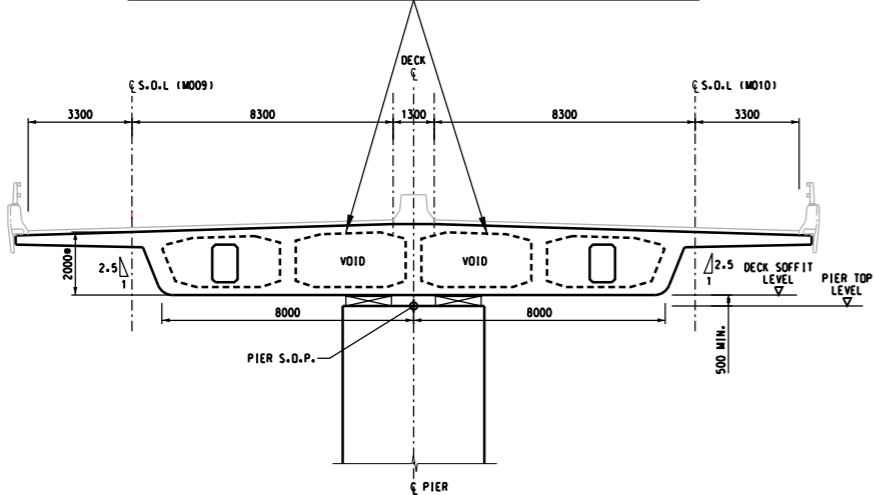
Key Plan

NOTES:

- ALL GRIDLINES FOR SINGLE PIERS ARE ORIENTATED PERPENDICULAR TO THE SETTING OUT LINES UNLESS STATED OTHERWISE.
- THE HORIZONTAL AND VERTICAL PROFILE OF BRIDGE A1 SHALL REFER TO RELEVANT ALIGNMENT DRAWINGS UNLESS STATED OTHERWISE.
- THE SPAN LENGTHS AS SHOWN ARE MEASURED ALONG THE DECK CENTRELINE.
- SETTING OUT PRINCIPAL FOR SINGLE PIER:

GRID LINE
N
S.O.P. OF PIER
- LEGEND:
H.D.L. HIGHWAY DESIGN LINE
S.O.L. SETTING OUT LINE
S.O.P. SETTING OUT POINT

ITEM 4:
OPTIMIZING THE STRUCTURAL FORM IN BOX SECTION TO REDUCE THE SELF-WEIGHT OF DECK, CONSEQUENTLY REDUCE THE BRIDGE COLUMN SIZE AND MAXIMIZING THE SPACINGS OF BRIDGE COLUMN



BRIDGE A1 SETTING OUT
PRINCIPLE
SCALE 1:100

LEGEND :

- EP-353/2009/K BOUNDARY
- EP-352/2009/D BOUNDARY
- FEP-01-352/2009/D BOUNDARY

Rev	Description	By	Date
A	LVP SUBMISSION	LAM	31OCT19

Supervising Officer
ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contractor
中雷建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Contractor's Designer
ATKINS 阿特金斯

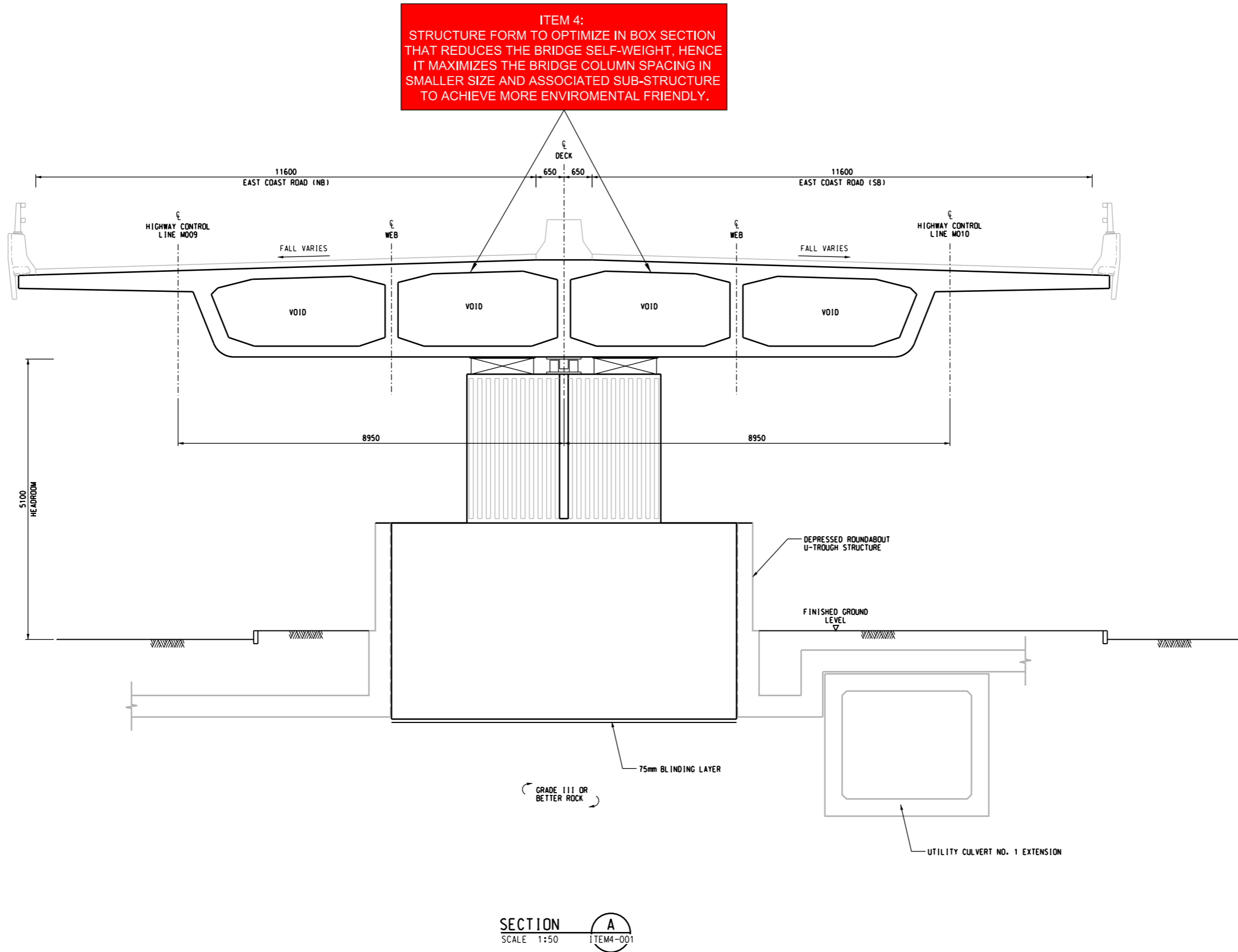
Contract No. and Title:
Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title
**DESIGN PHASE MITIGATION
MEASURES PLANS (VMM)
ITEM4:
OPTIMIZING THE SIZES
AND SPACING OF THE
BRIDGE COLUMNS**

Drawn KIT	Date 31/10/2019	Checked WK	Approved LAM
Scale @ A1 AS SHOWN	Status -	Rev. A	

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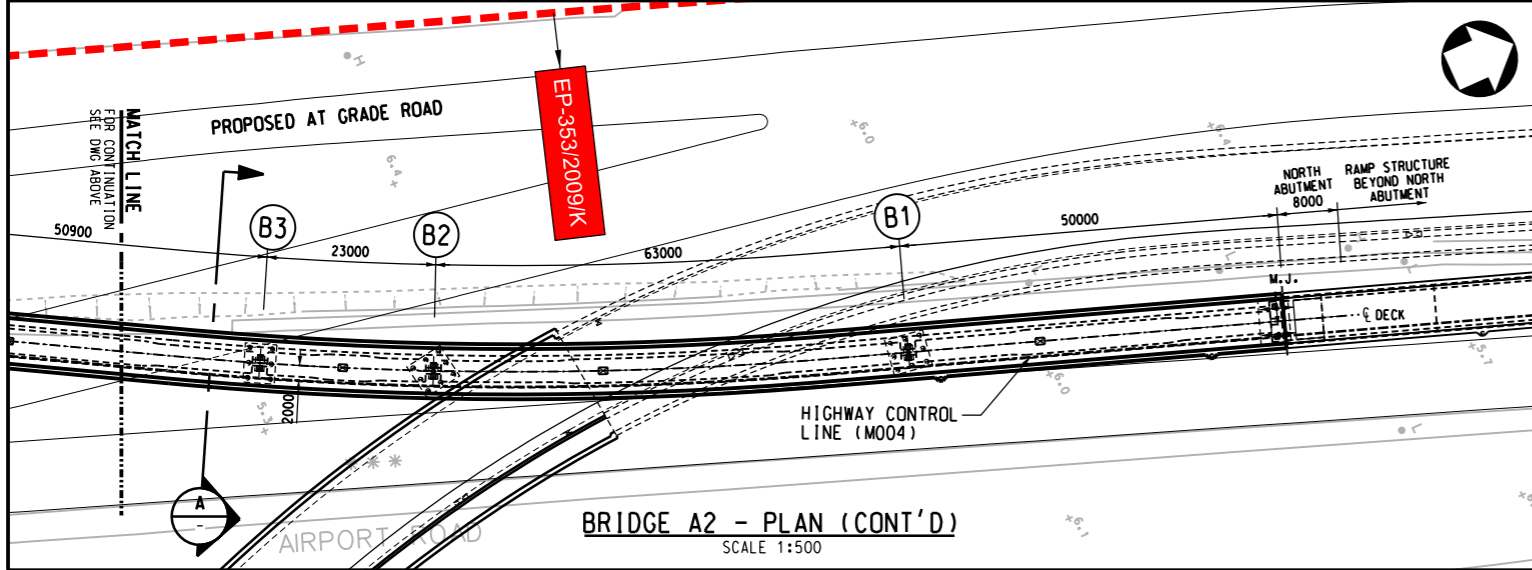
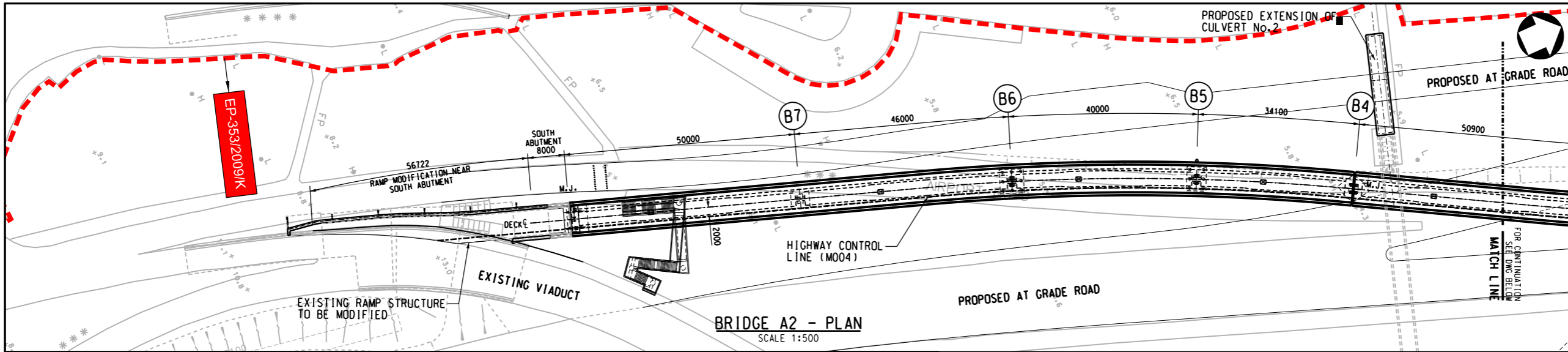




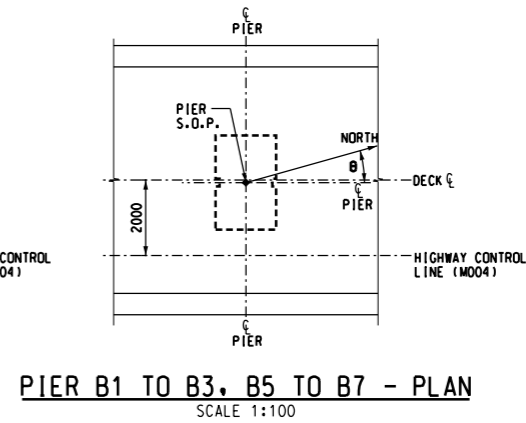
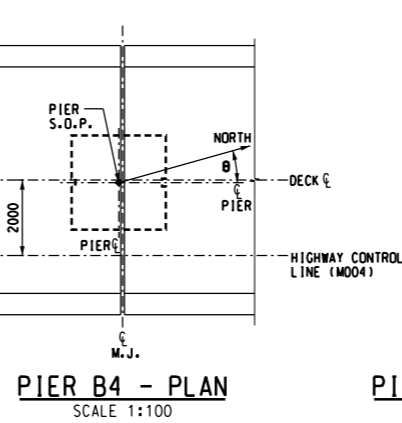
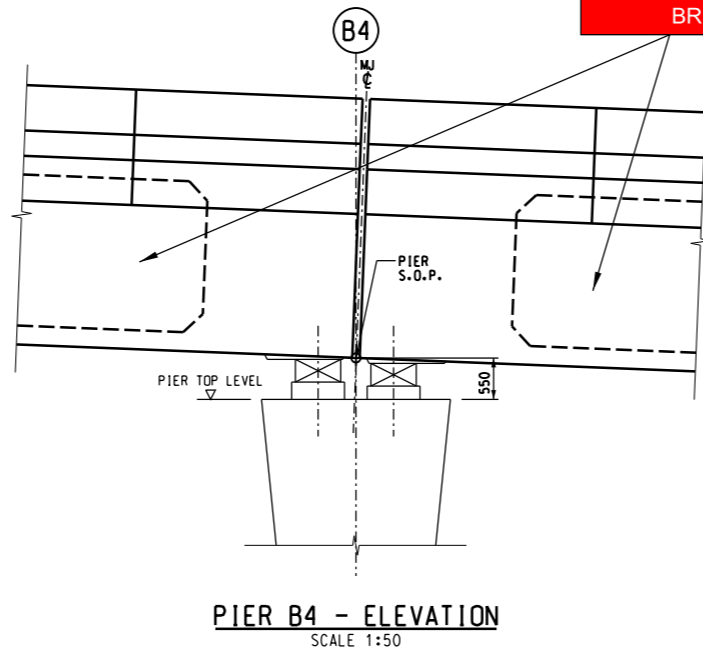
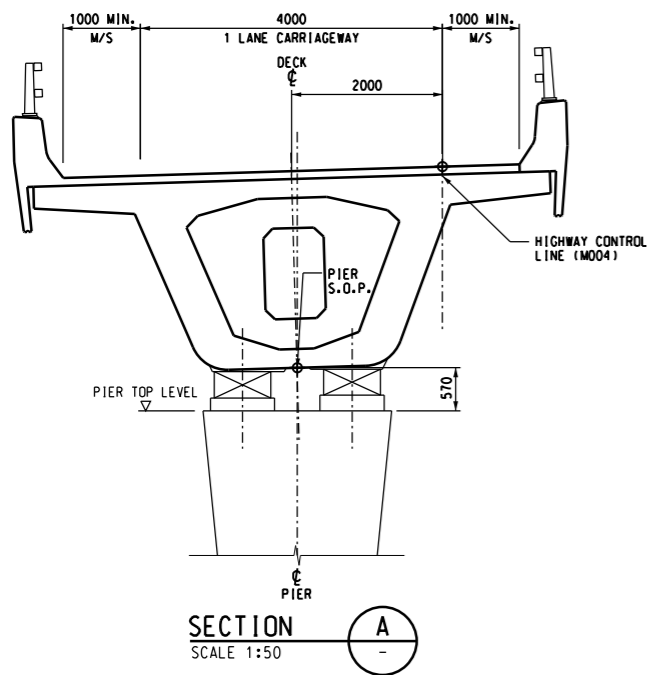
NOTES:

- FOR GENERAL NOTES, REFER TO 4809-BR-0001 & 0002.
- FOR SETTING OUT INFORMATION OF DECK EXTERNAL PROFILE, REFER TO SETTING OUT DRAWING NO. 4809-BR-0050.

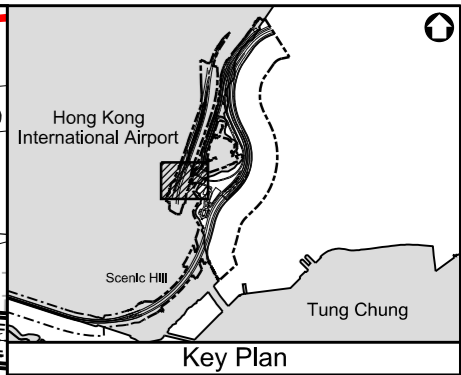
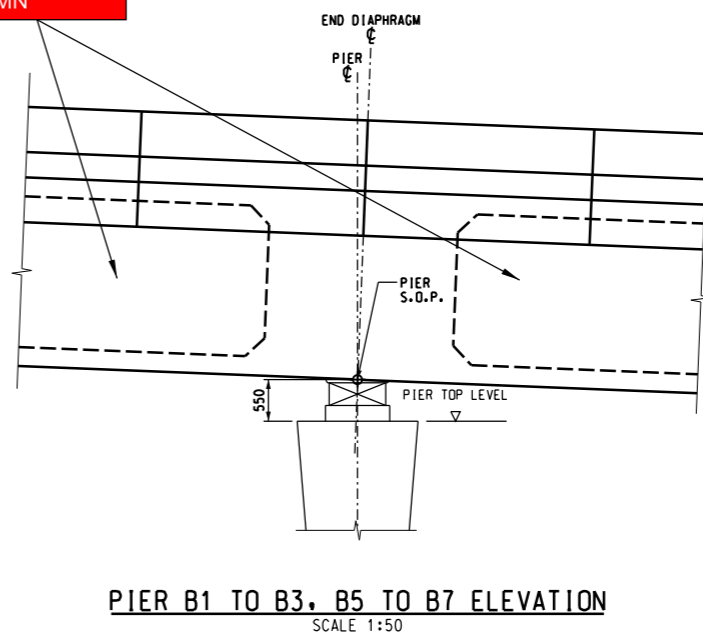
A	LVP SUBMISSION	LAM	31OCT19		
Rev	Description	By	Date		
Supervising Officer					
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited					
Contractor					
中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.					
Contractor's Designer					
ATKINS 阿特金斯					
Contract No. and Title:					
Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities					
Drawing title					
DESIGN PHASE MITIGATION MEASURES PLANS (VMM) ITEM4: OPTIMIZING THE SIZES AND SPACING OF THE BRIDGE COLUMNS					
Drawing no.				Rev.	
4809-LVP-ITEM4-002				A	
Drawn	Date	Checked	Approved		
KIT	31/10/2019	WK	LAM		
Scale	AS SHOWN	Status	-		



BRIDGE A2 PIER SECTION



ITEM 4:
BOX SECTION ADOPTS IN
BRIDGE DECKING TO REDUCE
THE SELF-WEIGHT THUS
OPTIMIZING THE SIZE OF
BRIDGE COLUMN



- NOTES:**
- FOR GENERAL NOTES REFER TO DRAWING NO. 4809-BR-0001 TO 0005.
 - FOR SETTING OUT INFORMATION OF HIGHWAY CONTROL LINE MO04, REFER TO RELEVANT HIGHWAY ALIGNMENT DRAWINGS.
 - PIER TOP LEVELS TO DETERMINED FROM THE VERTICAL AND HORIZONTAL PROFILE OF HIGHWAY CONTROL LINE (MO04).
 - FOR THICKNESS OF ROAD SURFACING REFER TO RELEVANT ROADWORK PACKAGES.

SETTING OUT POINT FOR PIERS

GRID LINE	COORDINATES		W.C.B. (°)
	EASTING	NORTHING	
B7	811366.207	818120.605	18°41'39.2"
B6	811381.270	818164.069	20°47'38.8"
B5	811396.946	818200.863	25°21'34.2"
B4	811412.586	818231.162	29°4'3.3"
B3	811437.308	818275.656	27°42'54.5"
B2	811447.532	818296.260	25°4'8.2"
B1	811470.658	818354.830	19°2'9.1"

LEGEND:

EP-353/2009/K BOUNDARY

Rev	Description	By	Date
A	LVP SUBMISSION	LAM	31OCT19

Supervising Officer
ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contractor
中雷建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Contractor's Designer
ATKINS 阿特金斯

Contract No. and Title:
Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title
**DESIGN PHASE MITIGATION
MEASURES PLANS (VMM)
ITEM4:
OPTIMIZING THE SIZES
AND SPACING OF THE
BRIDGE COLUMNS**

Drawing no. 4809-LVP-ITEM4-003		Rev. A
Drawn KIT	Date 31/10/2019	Checked WK
Scale A1	1:500	Approved LAM
Status	-	

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HIGHWAYS DEPARTMENT**
港珠澳大橋香港工程管理局
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

BRIDGE A2 PIER LAYOUT PLAN

ITEM 4:
OPTIMIZING THE BRIDGE COLUMN SPACINGS TO
APPROXIMATELY 50m LONG FOR EACH SPAN
(EXCEPT CONSTRIANT AT UNDERGROUND
STRUCTURE)

PROPOSED EXTENSION OF
CULVERT No.2

PROPOSED ELEVATED
BRIDGE A2

RAMP STRUCTURE
BEYOND NORTH ABUTMENT

RAMP
STRUCTURE

NORTH
ABUTMENT

EP-353/2009/K

EP-353/2009/K

EP-353/2009/K

EXISTING CULVERT No.2

EXISTING PEDESTRIAN CROSSING
TO BE MAINTAINED

EXISTING STAIRCASE
TO BE DEMOLISHED

SOUTH ABUTMENT

EXISTING PARAPET
TO BE DEMOLISHED

REPROVISIONING STAIRCASE
NEAR BRIDGE A2 LOCATION

RAMP STRUCTURE
NEAR SOUTH ABUTMENT

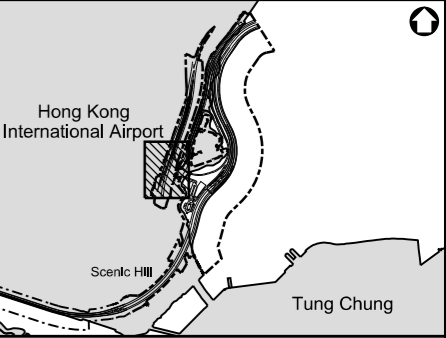
EXISTING VIADUCT

EAST COAST ROAD

MTR AIRPORT EXPRESS LINE 1

AIRPORT ROAD

CATERING ROAD EAST



Key Plan

NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH GENERAL
NOTES DRAWING 4809-BR-0001 TO 0005.

LEGEND:



EP-353/2009/K BOUNDARY

Rev	Description	By	Date
A	LVP SUBMISSION	LAM	31OCT19

Supervising Officer

ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contractor

中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Contractor's Designer

ATKINS 阿特金斯

Contract No. and Title:

Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title

DESIGN PHASE MITIGATION
MEASURES PLANS (VMM)
ITEM4:
OPTIMIZING THE SIZES
AND SPACING OF THE
BRIDGE COLUMNS

Drawing no. 4809-LVP-ITEM4-004 Rev. A

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Item 4 - Optimizing the sizes and spacings of bridge columns
(Refer to Section 4.3 of LVP)

Rev	Description	By	Date

Consultant			
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited			

Contract No. and Title:			
Contract No. HY/2011/03			
Hong Kong-Zhuhai-Macao Bridge			
Hong Kong Link Road -			
Section Between Scenic Hill and			
Hong Kong Boundary Crossing Facilities			

Drawing title			
Design Phase Mitigation Measures Plans (VMM)			
Aesthetic Design on			
Bridge A2			

Drawing no.		Rev.	
Item 4			
Drawn	Date	Checked	Approved
Scale	Status		

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Hong Kong - Zhuhai - Macao Bridge

Hong Kong Project Management Office



Item 4 - Optimizing the sizes and spacings of bridge columns
(Refer to Section 4.3 of LVP)

Rev	Description	By	Date

Consultant			
ARUP		奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited	

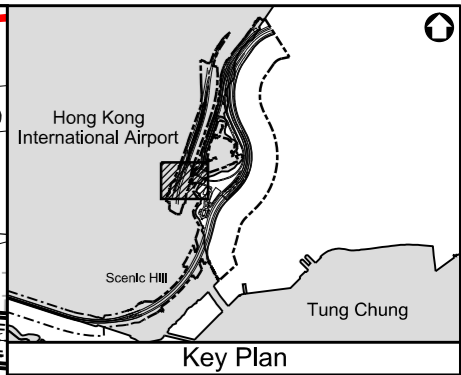
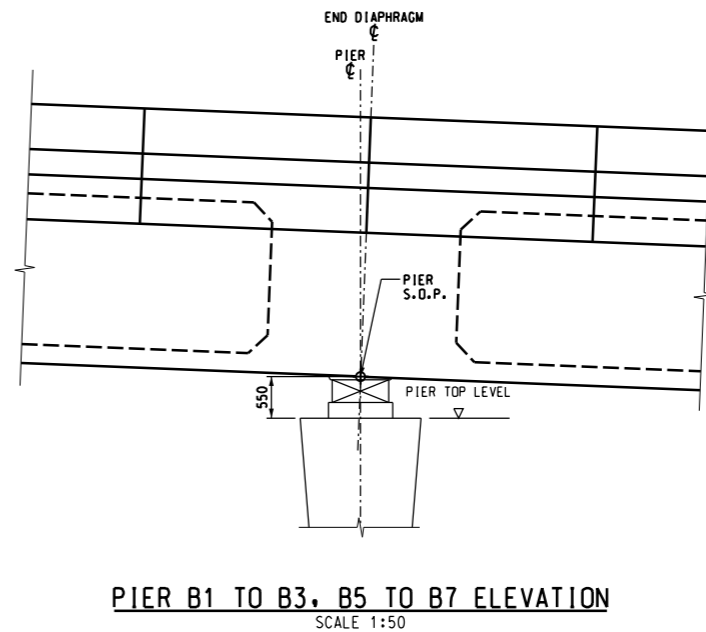
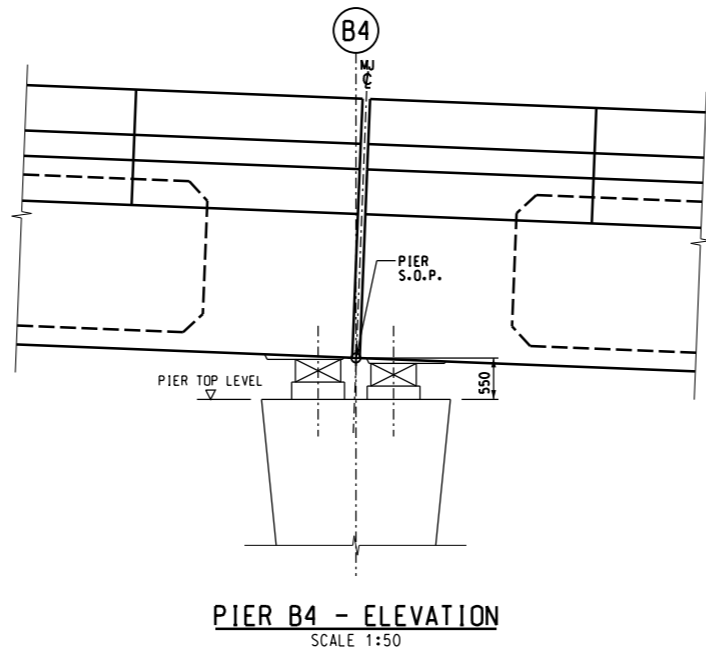
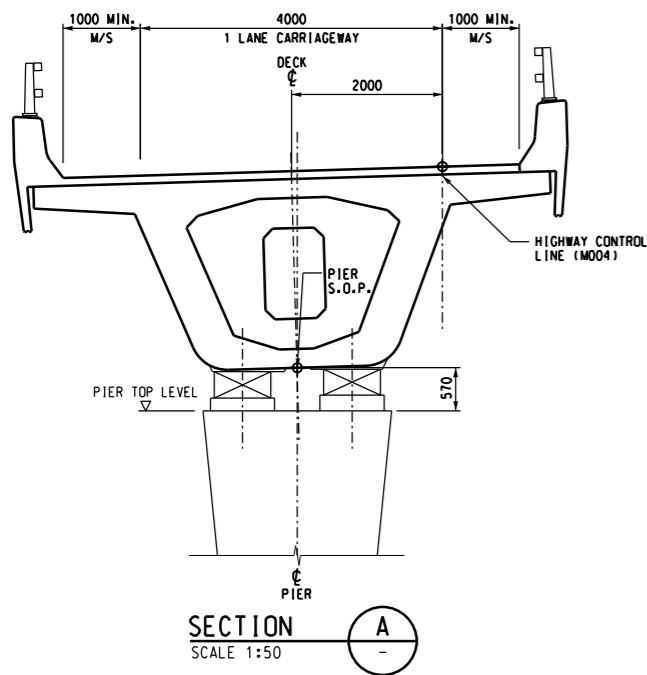
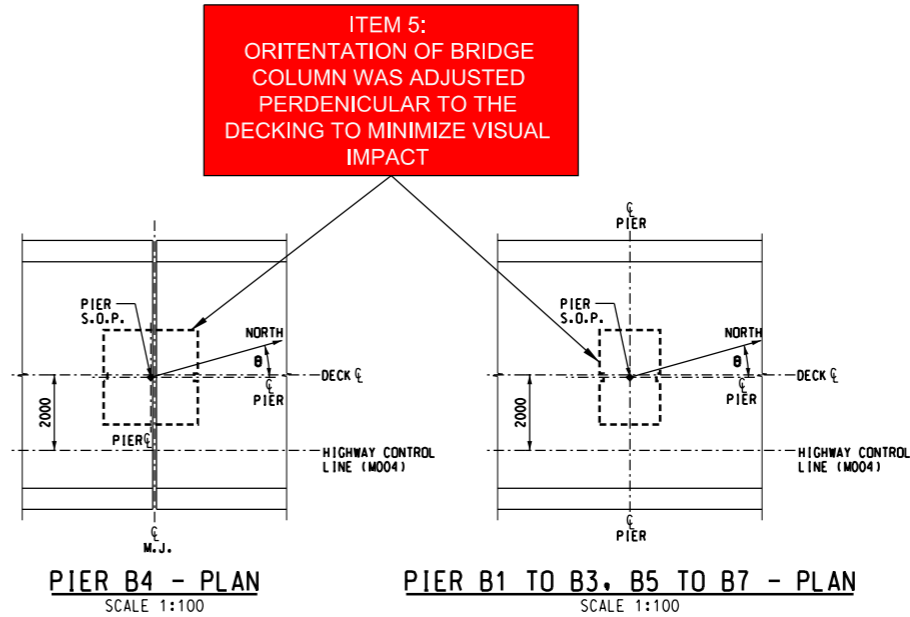
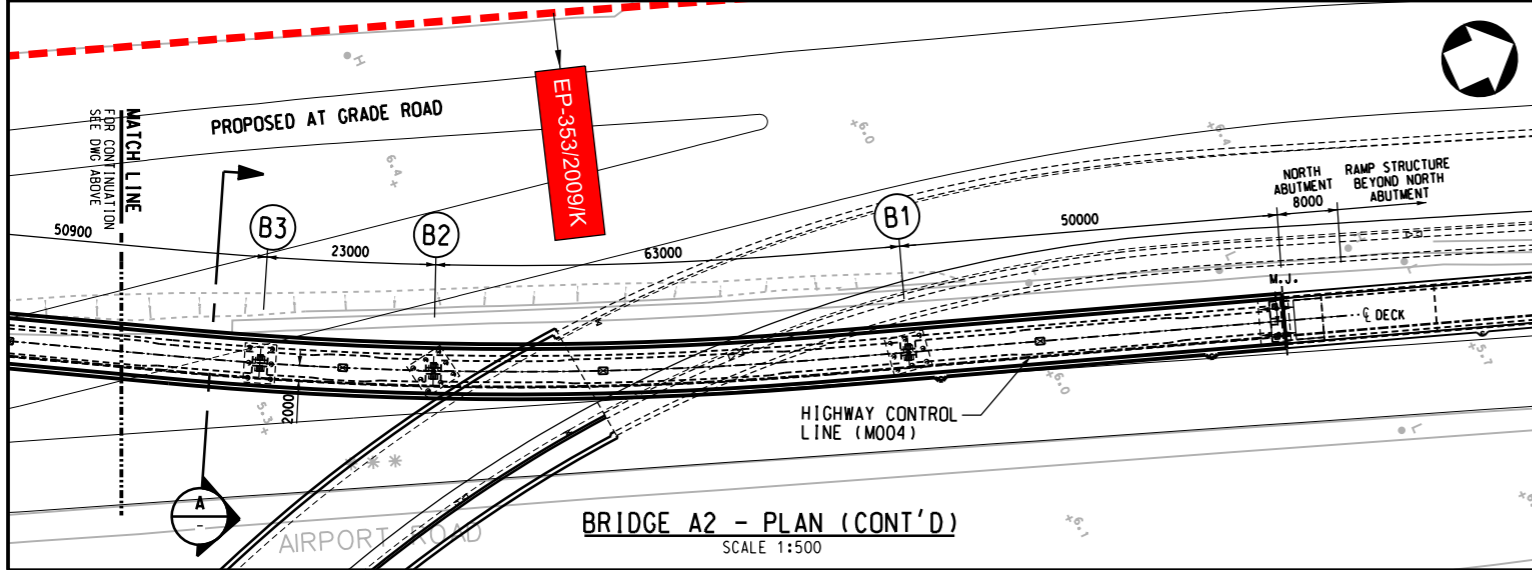
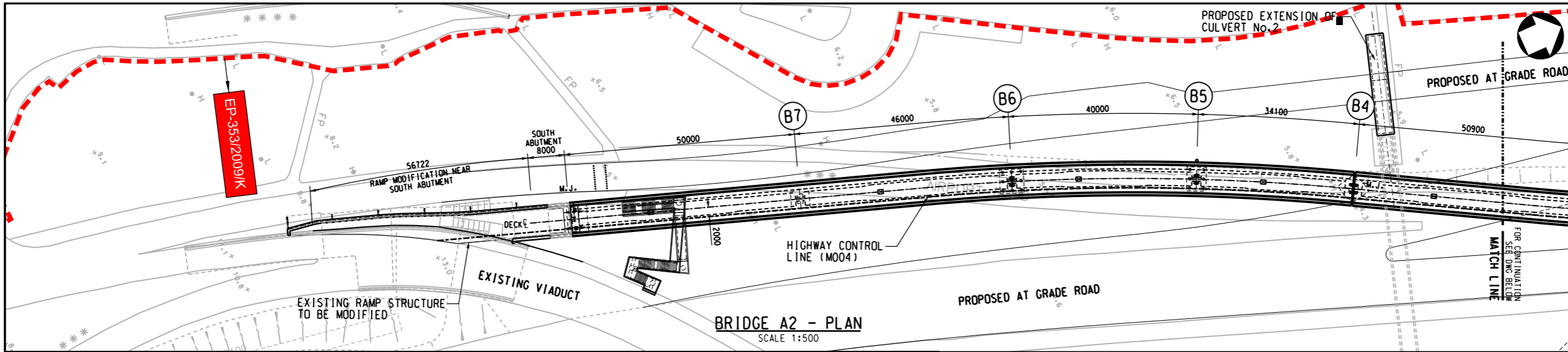
Contract No. and Title:			
Contract No. HY/2011/03			
Hong Kong-Zhuhai-Macao Bridge			
Hong Kong Link Road -			
Section Between Scenic Hill and			
Hong Kong Boundary Crossing Facilities			

Drawing title			
Design Phase Mitigation Measures Plans (VMM)			
Aesthetic Design on			
Bridge A2			

Drawing no.		Rev.	
Item 4			
Drawn	Date	Checked	Approved
Scale	Status		

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- NOTES:**
- FOR GENERAL NOTES REFER TO DRAWING NO. 4809-BR-0001 TO 0005.
 - FOR SETTING OUT INFORMATION OF HIGHWAY CONTROL LINE M004, REFER TO RELEVANT HIGHWAY ALIGNMENT DRAWINGS.
 - PIER TOP LEVELS TO BE DETERMINED OUT FROM THE VERTICAL AND HORIZONTAL PROFILE OF HIGHWAY CONTROL LINE (M004).
 - FOR THICKNESS OF ROAD SURFACING REFER TO RELEVANT ROADWORK PACKAGES.

SETTING OUT POINT FOR PIERS

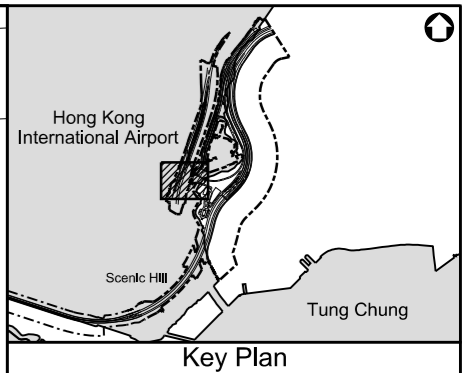
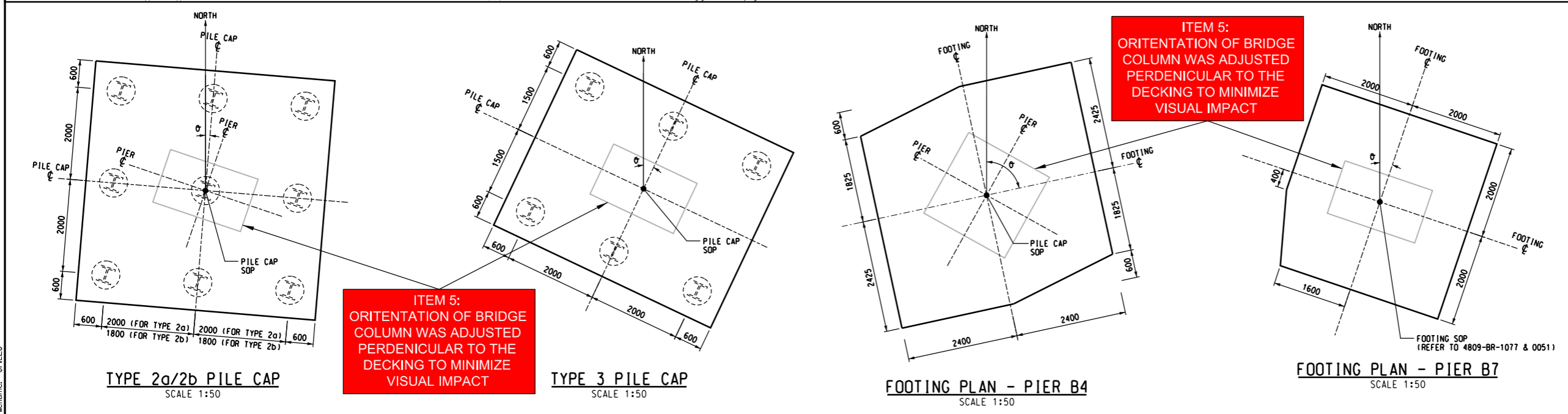
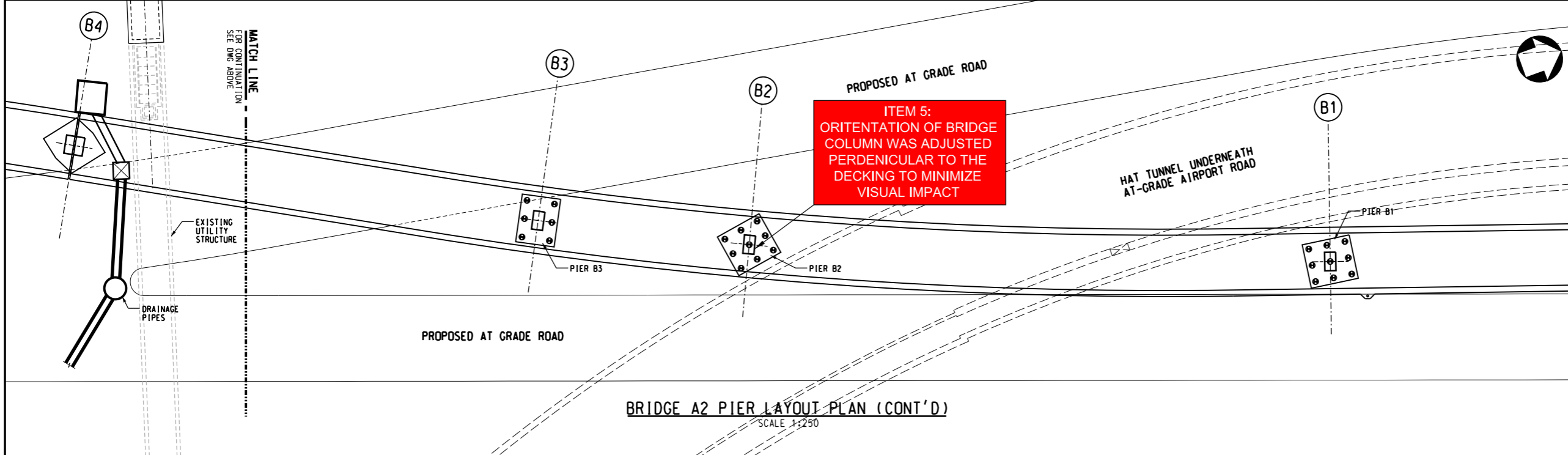
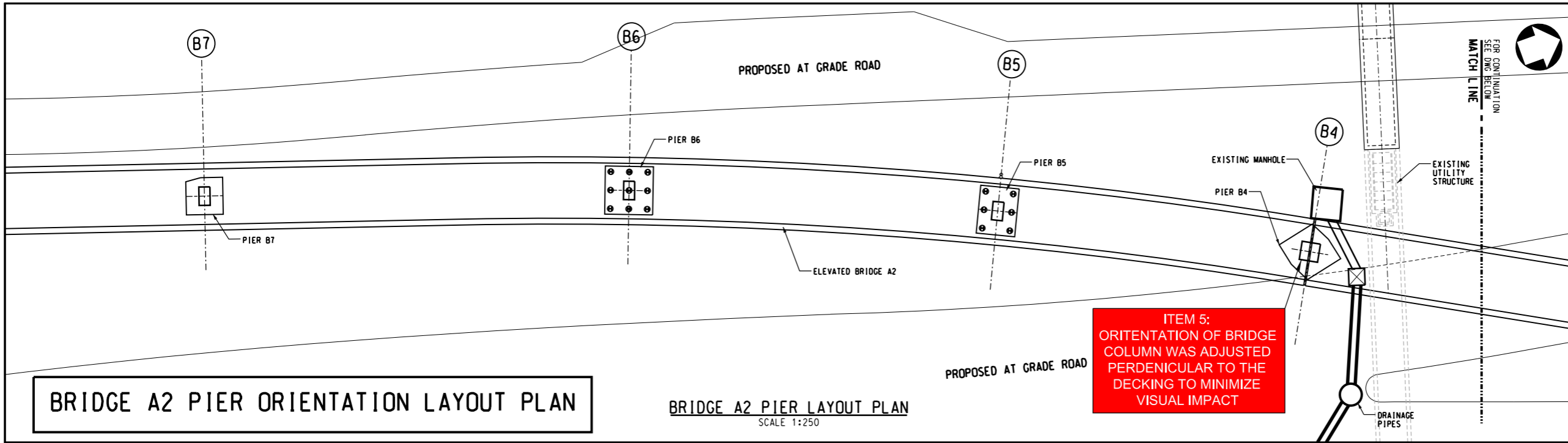
GRID LINE	COORDINATES		W.C.B. (°)
	EASTING	NORTHING	
B7	811366.207	818120.605	18°41'39.2"
B6	811381.270	818164.069	20°47'38.8"
B5	811396.946	818200.863	25°21'34.2"
B4	811412.586	818231.162	29°4'3.3"
B3	811437.308	818275.656	27°42'54.5"
B2	811447.532	818296.260	25°4'8.2"
B1	811470.658	818354.830	19°2'9.1"

LEGEND:

	EP-353/2009/K BOUNDARY
--	------------------------

A		LVP SUBMISSION	LAM	31OCT19
Rev	Description	By	Date	
Supervising Officer				
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited				
Contractor				
中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.				
Contractor's Designer				
ATKINS 阿特金斯				
Contract No. and Title:				
Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities				
Drawing title				
DESIGN PHASE MITIGATION MEASURES PLANS (VMM) ITEM5: FINE-TUNING THE LOCATION OF THE BRIDGE COLUMN				
Drawing no.		Rev.		
4809-LVP-ITEM5-001		A		
Drawn	Date	Checked	Approved	
KIT	31/10/2019	WK	LAM	
Scale	1:500	Status		
A1				





- NOTES:**
- FOR GENERAL NOTES REFER TO DRAWING NO. 4809-BR-0001 TO 0005.
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NO. 4809-BR-0051 & 1050.
 - UNLESS STATED OTHERWISE ORIENTATION OF H PILES TO BE ALIGNED SUCH THAT THEIR MAJOR AXIS ARE PARALLEL TO THE PIER CENTRE LINE AND HIGHWAY CONTROL LINE M004.
 - FOR HORIZONTAL AND VERTICAL PROFILE OF HIGHWAY CONTROL LINE, REFER TO RELEVANT HIGHWAY ALIGNMENT DRAWINGS.
 - FOR COORDINATES OR W.C.B. OF PILE CAP / FOOTING NOT INCLUDED IN THE SETTING OUT POINT SCHEDULE, REFER TO SETTING OUT POINT OF PIERS IN DRAWING NO. 4809-BR-0051.
 - FOR PILE CAP TYPE AND PILING SCHEDULE REFER TO DRAWING NO. 4809-BR-1063 AND 1079.

GRID LINE		COORDINATES		W.C.B. (°)
		EASTING	NORTHING	
B7				SEE NOTE 5
B6				SEE NOTE 5
B5				SEE NOTE 5
B4				77°46'57"
B3				SEE NOTE 5
B2				350°37'36"
B1				8°2'4"

Rev	Description	By	Date
A	LVP SUBMISSION	LAM	31OCT19

Supervising Officer
ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contractor
中雷建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Contractor's Designer
ATKINS 阿特金斯

Contract No. and Title:
Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title
**DESIGN PHASE MITIGATION
MEASURES PLANS (VMM)
ITEM5:
FINE-TUNING THE LOCATION OF
THE BRIDGE COLUMN**

Drawing no. 4809-LVP-ITEM5-002		Rev. A
Drawn KIT	Date 31/10/2019	Checked WK
Scale 1:500	Status -	Approved LAM

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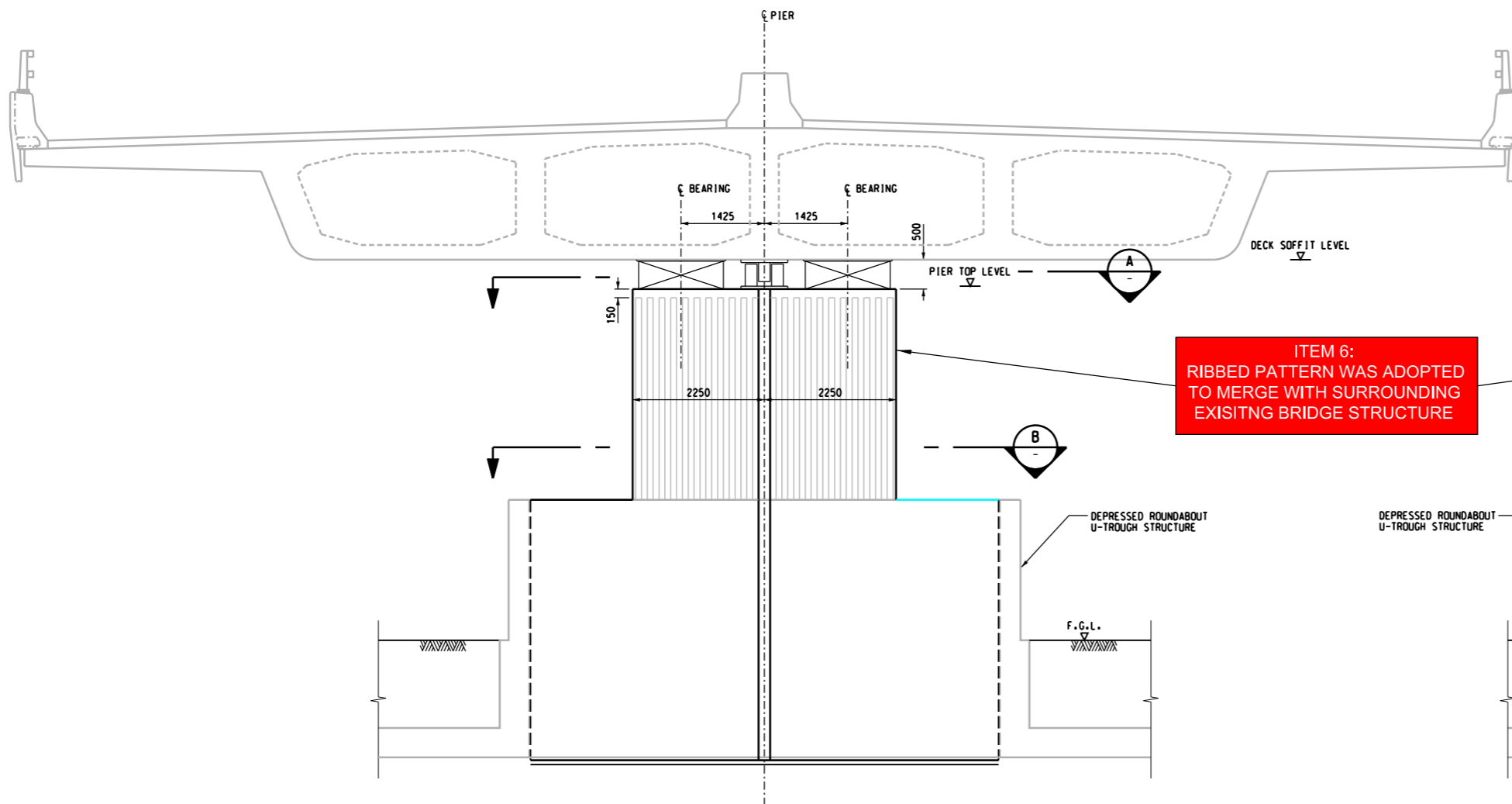
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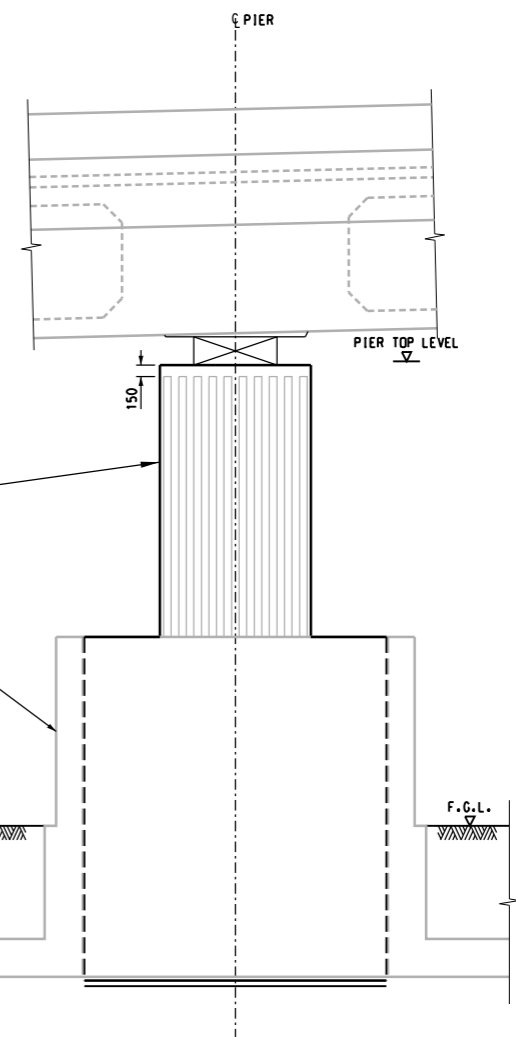
Item 5 - Fine-tuning the location of bridge columns to avoid visually-sensitive locations
(Refer to Section 4.3 of LVP)

Rev	Description	By	Date
Consultant			
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited			
Contract No. and Title:			
Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities			
Drawing title			
Design Phase Mitigation Measures Plans (VMM) Aesthetic Design on Bridge A2			
Drawing no.		Rev.	
Item 5			
Drawn	Date	Checked	Approved
Scale	Status		

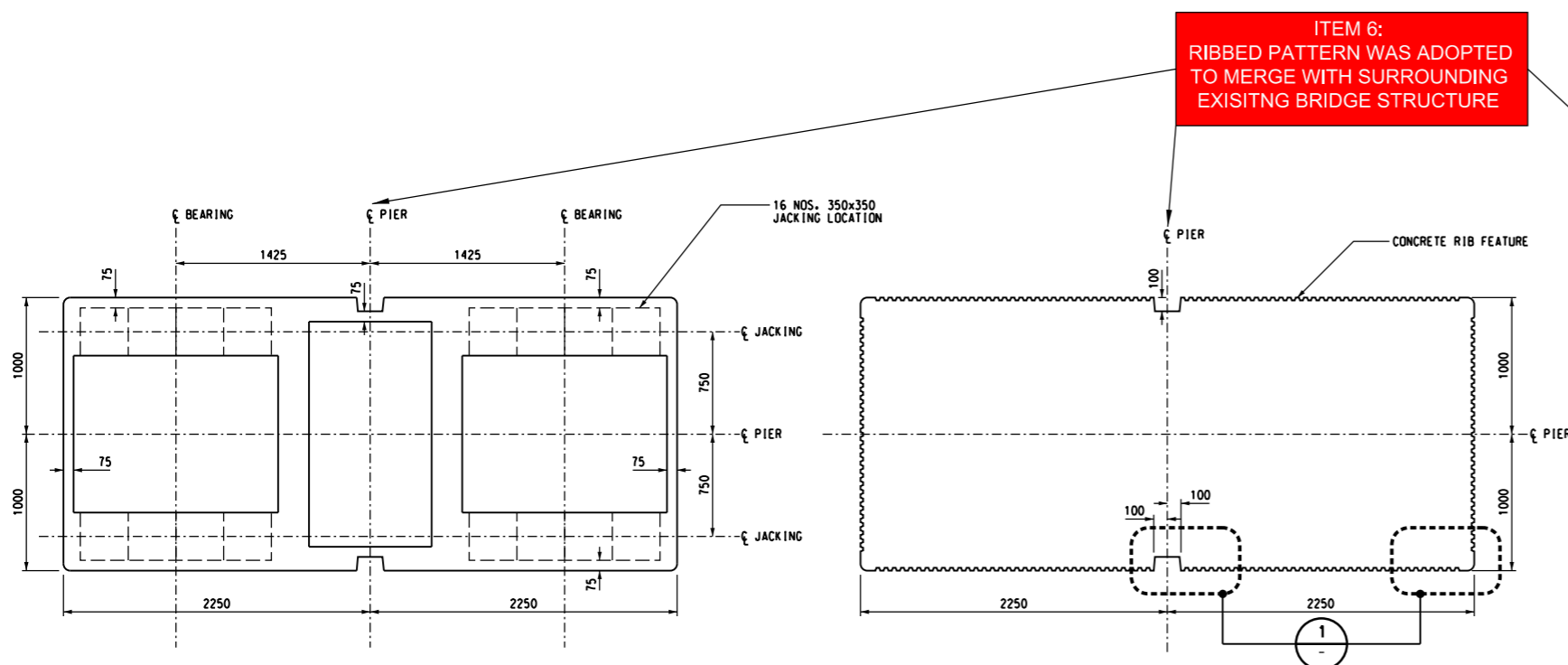
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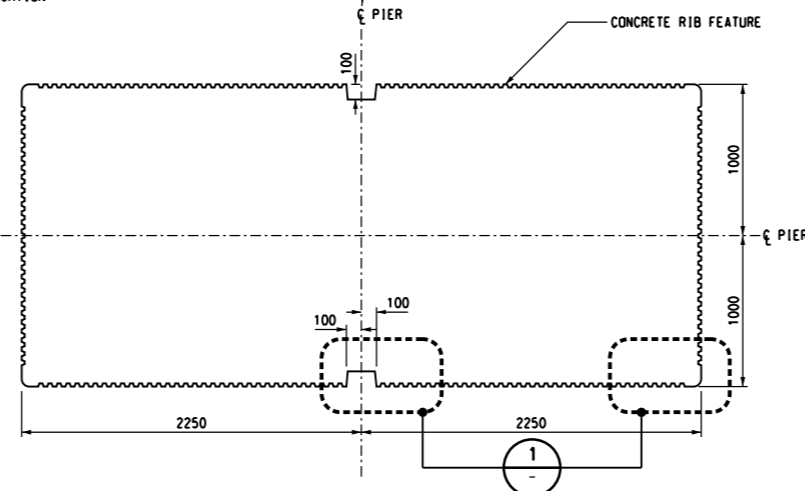
BRIDGE A1 PIER - FRONT ELEVATION
SCALE 1:50



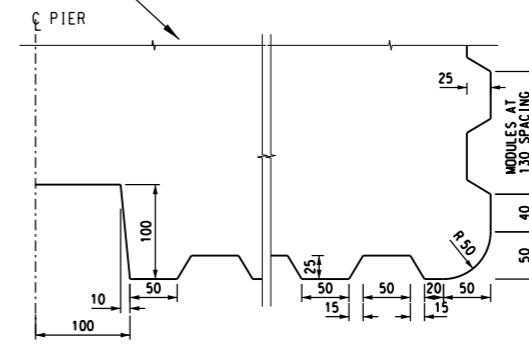
BRIDGE A1 PIER - SIDE ELEVATION
SCALE 1:50



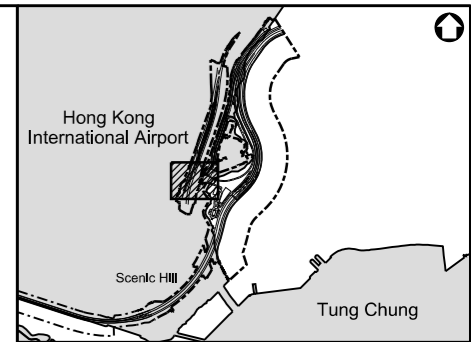
SECTION
SCALE 1:25



SECTION
SCALE 1:25



DETAIL
SCALE 1:4



Key Plan

NOTES:

1. FOR GENERAL NOTES REFER TO DRAWING NO. 4809-BR-0001 TO 0005.
2. FOR PIER SETTING OUT INFORMATION, REFER TO DRAWING NO. 4809-BR-0050.
3. ALL PERMANENTLY BURIED CONCRETE TO BE APPLIED WITH TWO LAYERS OF BITUMINOUS PAINTS COMPLYING WITH THE SPECIFICATION. DETAILS REFER TO NOTE 3.6 OF GENERAL NOTES DRAWING NO. 4809-BR-0001.

Rev	Description	By	Date
A	LVP SUBMISSION	LAM	31OCT19

Supervising Officer
ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contractor
CSCEC 中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Contractor's Designer
ATKINS 阿特金斯

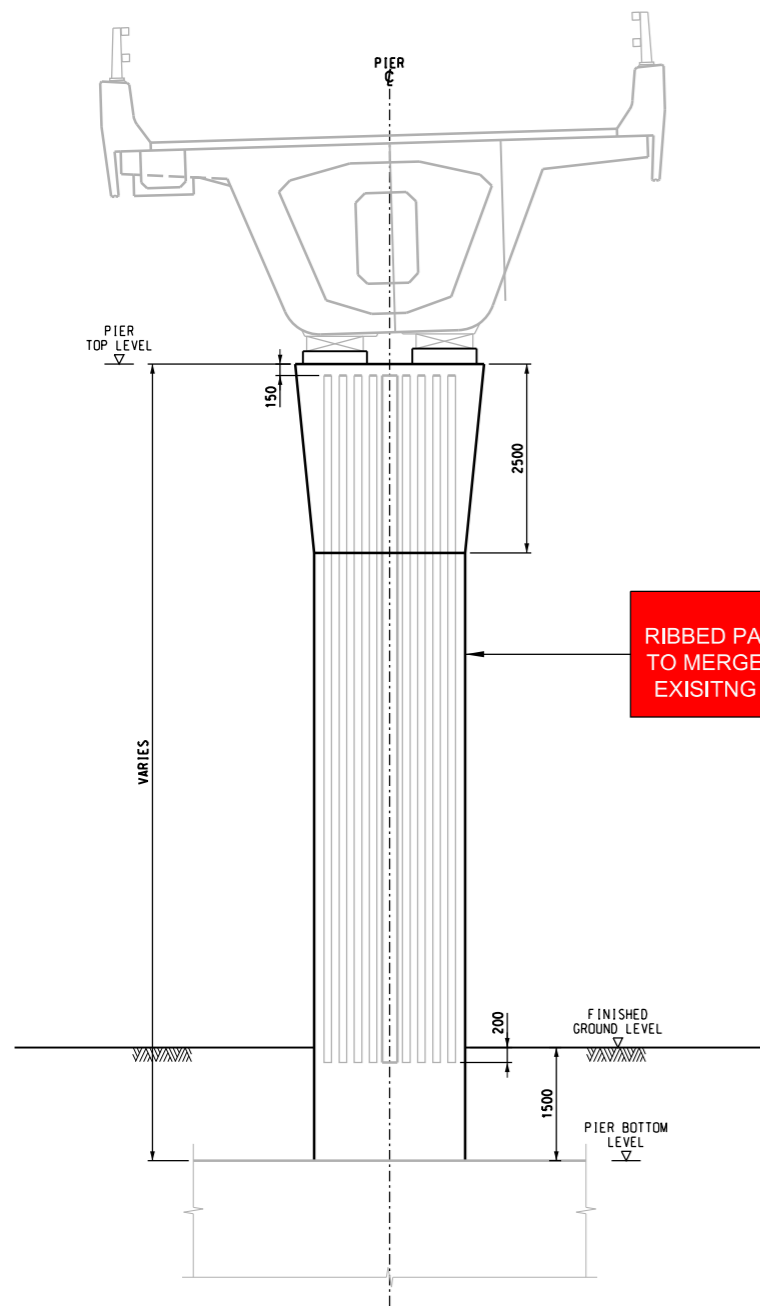
Contract No. and Title:
Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title
**DESIGN PHASE MITIGATION
MEASURES PLANS (VMM)
ITEM6:
AESTHETIC DESIGN OF THE
BRIDGE FORM AND ITS
STRUCTURAL ELEMENTS**

Drawn KIT	Date 31/10/2019	Checked WK	Approved LAM
Scale @ A1	AS SHOWN	Status -	Rev. A

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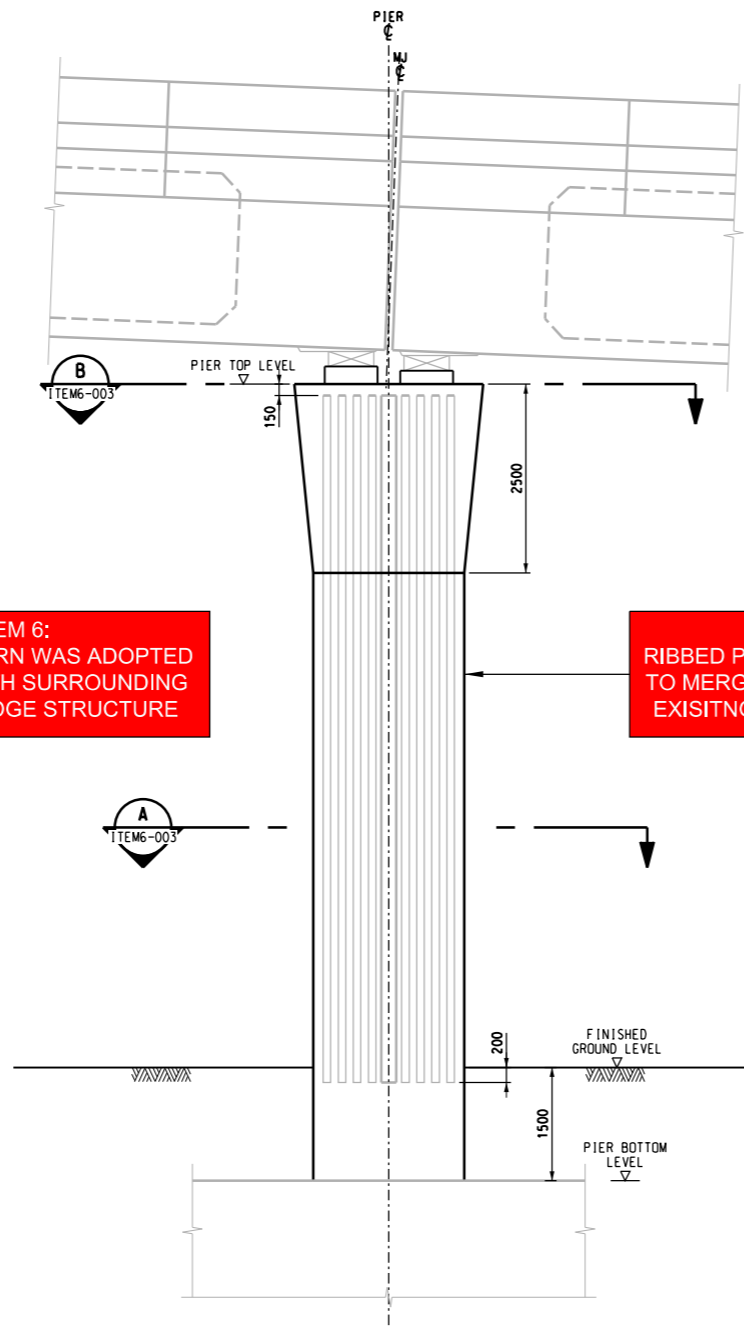


FRONT ELEVATION
FOR PIER TYPE 2, 3a & 3b
SCALE 1:50

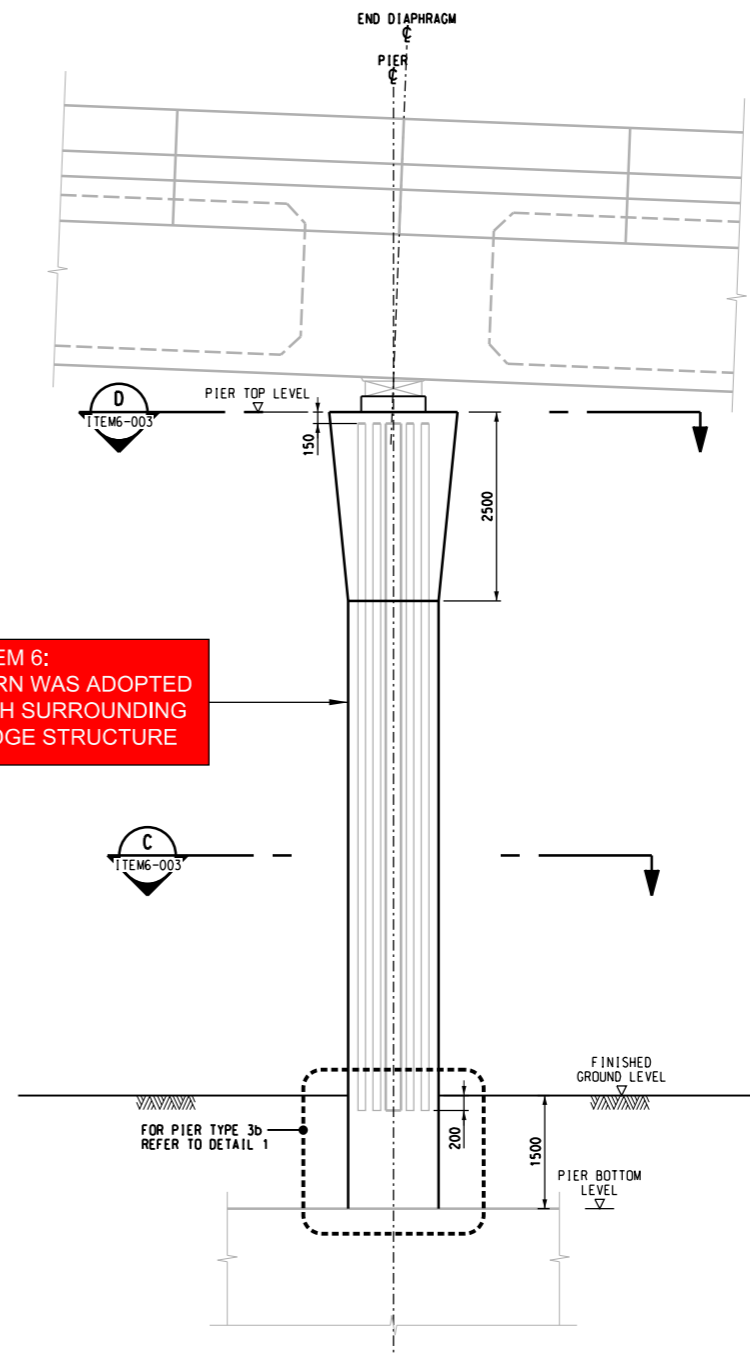
PIER TYPE SCHEDULE

GRID	PIER TYPE	PIER BOTTOM LEVEL (mPD) *
B1	TYPE 3a	4.3
B2	TYPE 3b	3.8
B3	TYPE 3a	3.6
B4	TYPE 2	3.0
B5	TYPE 3a	4.1
B6	TYPE 3b	4.5
B7	TYPE 3a	4.6

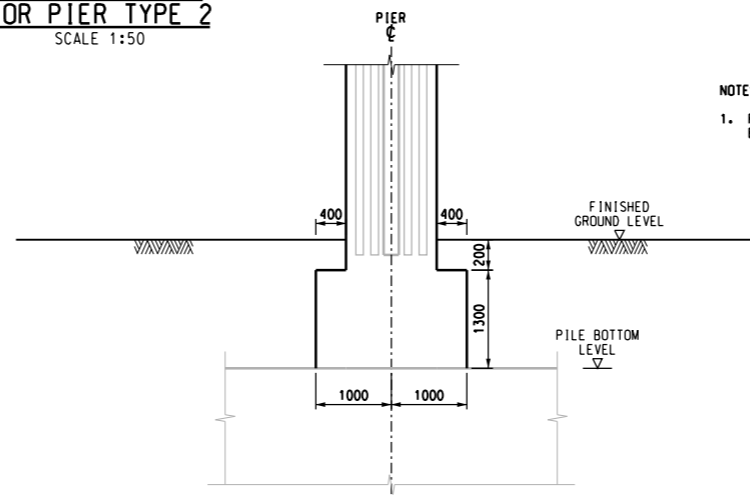
BRIDGE A2 PIER ELEVATION



SIDE ELEVATION
FOR PIER TYPE 2
SCALE 1:50

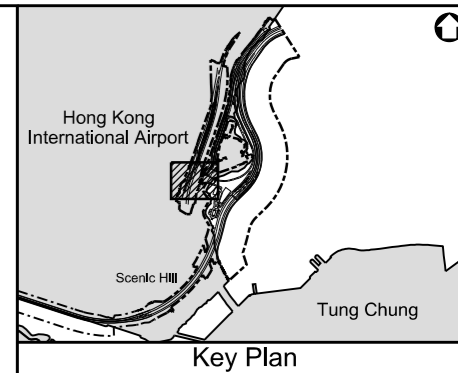


SIDE ELEVATION
FOR PIER TYPE 3a & 3b
SCALE 1:50



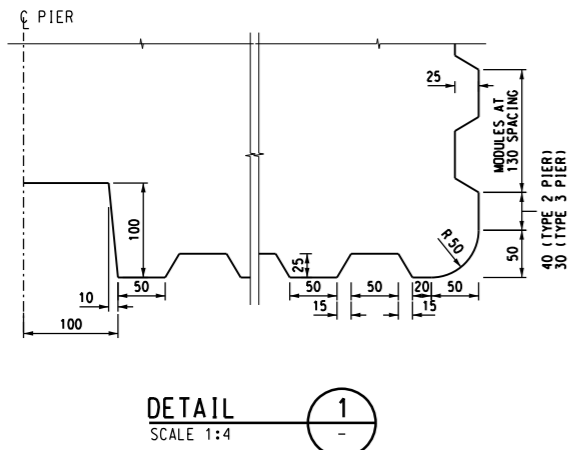
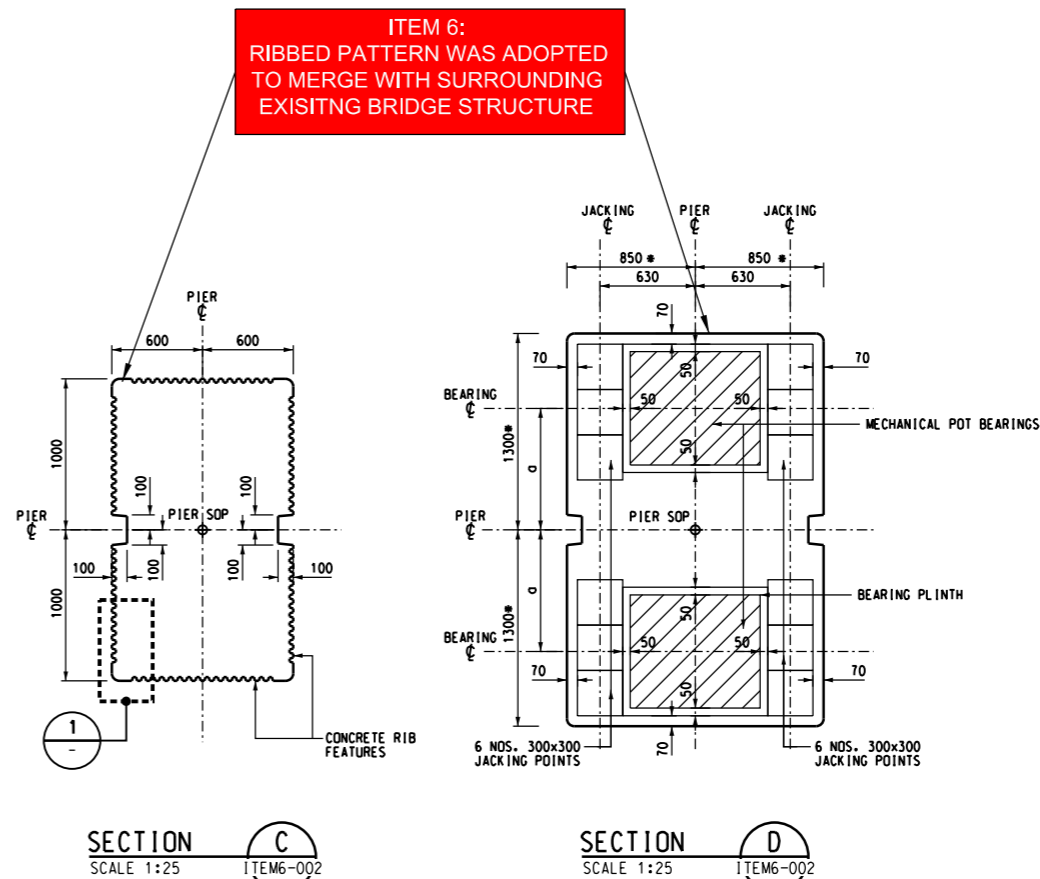
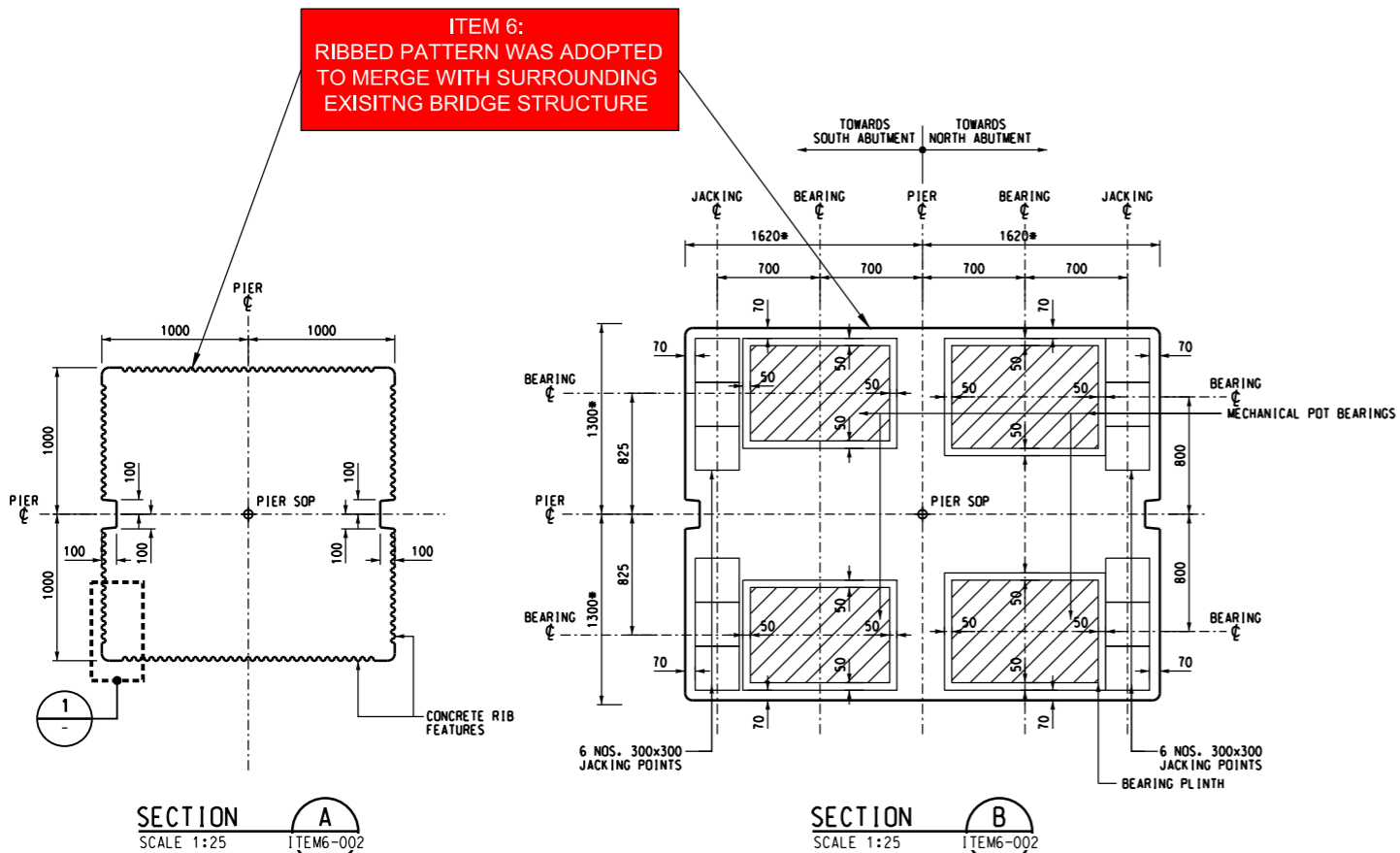
DETAIL
SCALE 1:50

- NOTES:
1. THIS DETAIL APPLIES TO PIER TYPE 3b ONLY.



- NOTES:
1. FOR GENERAL NOTES REFER TO DRAWING NO. 4809-BR-0001 TO 0005.
 2. FOR SETTING OUT POINTS OF PIERS REFER TO SETTING OUT PLAN DRAWING 4809-BR-0051.
 3. PIER TOP LEVEL SHALL BE WORKED OUT FROM ALIGNMENT M004 (PACKAGE 0), ALSO REFER TO 4809-BR-0051 FOR THE GENERAL SETTING OUT PRINCIPLE.

A	LVP SUBMISSION	LAM	31OCT19
Rev	Description	By	Date
Supervising Officer			
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited			
Contractor			
中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.			
Contractor's Designer			
ATKINS 阿特金斯			
Contract No. and Title:			
Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities			
Drawing title			
DESIGN PHASE MITIGATION MEASURES PLANS (VMM) ITEM6: AESTHETIC DESIGN OF THE BRIDGE FORM AND ITS STRUCTURAL ELEMENTS			
Drawing no.		Rev.	
4809-LVP-ITEM6-002		A	
Drawn	Date	Checked	Approved
KIT	31/10/2019	WK	LAM
Scale	1:50	Status	-
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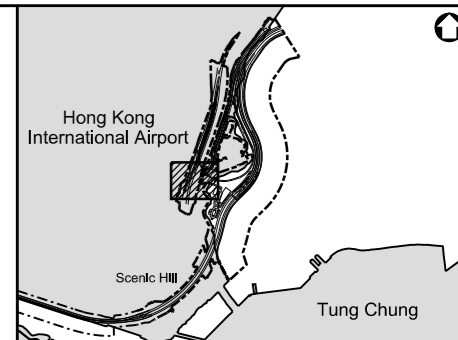
BEARING OFFSET FROM PIER CENTRELINE

GRID	a (mm)
B1	725
B2	725
B3	800
B4	REFER SECTION B
B5	800
B6	725
B7	725

- NOTES:
- THIS SCHEDULE IS TO BE READ IN CONJUNCTION WITH SECTION D OF THIS DRAWING.

- NOTES:
- CONCRETE RIB DETAILS AT REMAINING COLUMN FACES ARE SIMILAR.

BRIDGE A2 PIER SECTION



Key Plan

NOTES:

- FOR GENERAL NOTES REFER TO DRAWING NO. 4809-BR-0001 TO 0005.
- FOR MAX. BEARING SIZE REFER TO BEARING SCHEDULE DRAWING NO. 4809-BR-0061.
- FOR SETTING OUT DETAILS OF PIERS REFER TO SETTING OUT DRAWING 4809-BR-0051.
- DIMENSIONS WITH "M" DENOTES DIMENSION AT PIER TOP LEVEL AND VARIES LINEARLY TO 2500mm BELOW PIER TOP LEVEL.
- PLEASE REFER TO DRAWING 4809-BR-1701 FOR ANTI-BURSTING REINFORCEMENT FOR PIERS

Rev	Description	By	Date
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Ove Arup & Partners Hong Kong Limited

Contractor

中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Contractor's Designer

ATKINS 阿特金斯

Contract No. and Title:

Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

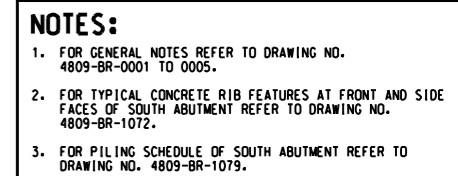
Drawing title

DESIGN PHASE MITIGATION
MEASURES PLANS (VMM)
ITEM6:
AESTHETIC DESIGN OF THE
BRIDGE FORM AND ITS
STRUCTURAL ELEMENTS

Drawn KIT	Date 31/10/2019	Checked WK	Approved LAM
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Item 6 - Aesthetic design of bridge form and its structural elements for HKLR (e.g. parapet, soffit, columns, lightings)

(Refer to Section 4.3 of LVP)

Rev	Description	By	Date
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Consultant			
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited			

Contract No. and Title:			
Contract No. HY/2011/03			
Hong Kong-Zhuhai-Macao Bridge			
Hong Kong Link Road -			
Section Between Scenic Hill and			
Hong Kong Boundary Crossing Facilities			

Drawing title			
Design Phase Mitigation Measures Plans (VMM)			
Aesthetic Design on			
Bridge A2			

Drawing no. Item 6			Rev.
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Item 7 - Considering the decorative urban design elements for HKLR (e.g. Decorative road lightings)

(Refer to Section 4.3 of LVP)

Rev	Description	By	Date
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Consultant			
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited			

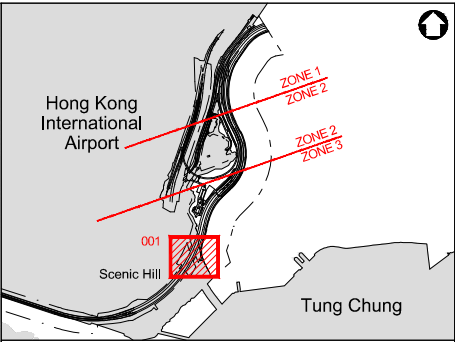
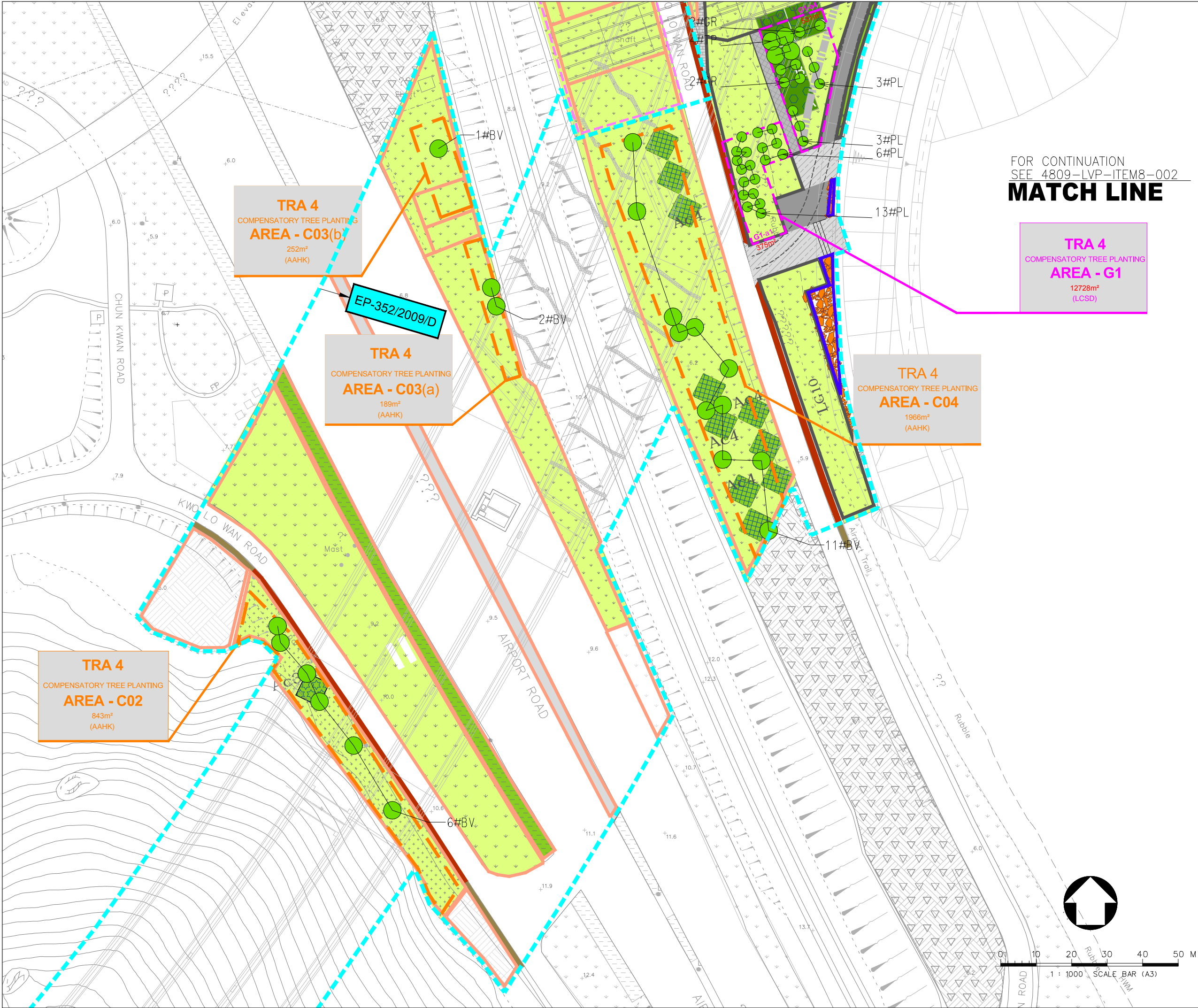
Contract No. and Title:			
Contract No. HY/2011/03			
Hong Kong-Zhuhai-Macao Bridge			
Hong Kong Link Road -			
Section Between Scenic Hill and			
Hong Kong Boundary Crossing Facilities			

Drawing title			
Design Phase Mitigation Measures Plans (VMM)			
Road Lighting Design on HKLR			

Drawing no.		Rev.	
Item 7			
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LEGEND :	
	COMPENSATORY AREA (AAHK)
	COMPENSATORY AREA (LCSD)
	COMPENSATE TREE
	EP-353/2009/K BOUNDARY
	EP-352/2009/D BOUNDARY
	FEP-01-352/2009/D BOUNDARY
	EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
	HIGHWAY DEPARTMENT
	HONG KONG AIRPORT AUTHORITY (AAHK)
	LANDSD
	LCSD
	TUNNEL CONTROL AUTHORITY (TD/MOm)

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Rev	Description	By	Date
Supervising Officer			
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Contractor			
中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.			
Contractor's Designer			
ATKINS 阿特金斯			
Contract No. and Title:			
Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities			
Drawing title			
DESIGN PHASE MITIGATION MEASURES PLANS (LMM) ITEM 8: MAXIMIZE NEW TREE SHRUB AND OTHER VEGETATION PLANTING TO COMPENSATE TREE FELLED AND VEGETATION REMOVED (SHEET 1 OF 6)			
Drawing no.		Rev.	
4809-LVP-ITEM8-001		A	
Drawn	Date	Checked	Approved
KIT	31/10/2019	WK	LAM
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Hong Kong International Airport

Scenic Hill

Tung Chung

Key Plan

LEGEND :

- COMPENSATORY AREA (AAHK)
- COMPENSATORY AREA (LCSD)
- COMPENSATE TREE
- EP-353/2009/K BOUNDARY
- EP-352/2009/D BOUNDARY
- FEP-01-352/2009/D BOUNDARY
- EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
- HIGHWAY DEPARTMENT
- HONG KONG AIRPORT AUTHORITY (AAHK)
- LANDSD
- LCSD
- TUNNEL CONTROL AUTHORITY (TD/MOm)

Rev	Description	By	Date
A	LVP SUBMISSION	LAM	31OCT19

Supervising Officer

ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contractor

CSCEC 中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Contractor's Designer

ATKINS 阿特金斯

Contract No. and Title:

Contract No. HY/2011/03

Hong Kong-Zhuhai-Macao Bridge

Hong Kong Link Road -

Section Between Scenic Hill and

Hong Kong Boundary Crossing Facilities

Drawing title

DESIGN PHASE MITIGATION MEASURES PLANS (LMM)

ITEM 8: MAXIMIZE NEW TREE SHRUB AND OTHER VEGETATION PLANTING TO COMPENSATE TREE FELLED AND VEGETATION REMOVED (SHEET 2 OF 6)

Drawing no.

4809-LVP-ITEM8-002

Rev. **A**

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KIT	31/10/2019	WK	LAM

Scale 1:500

STATUS

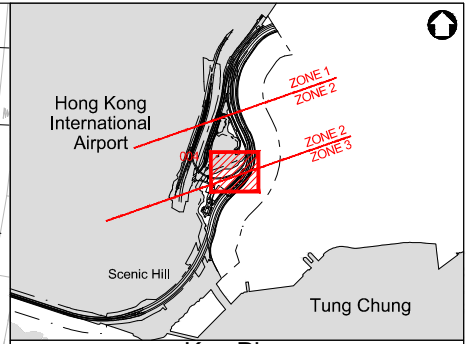
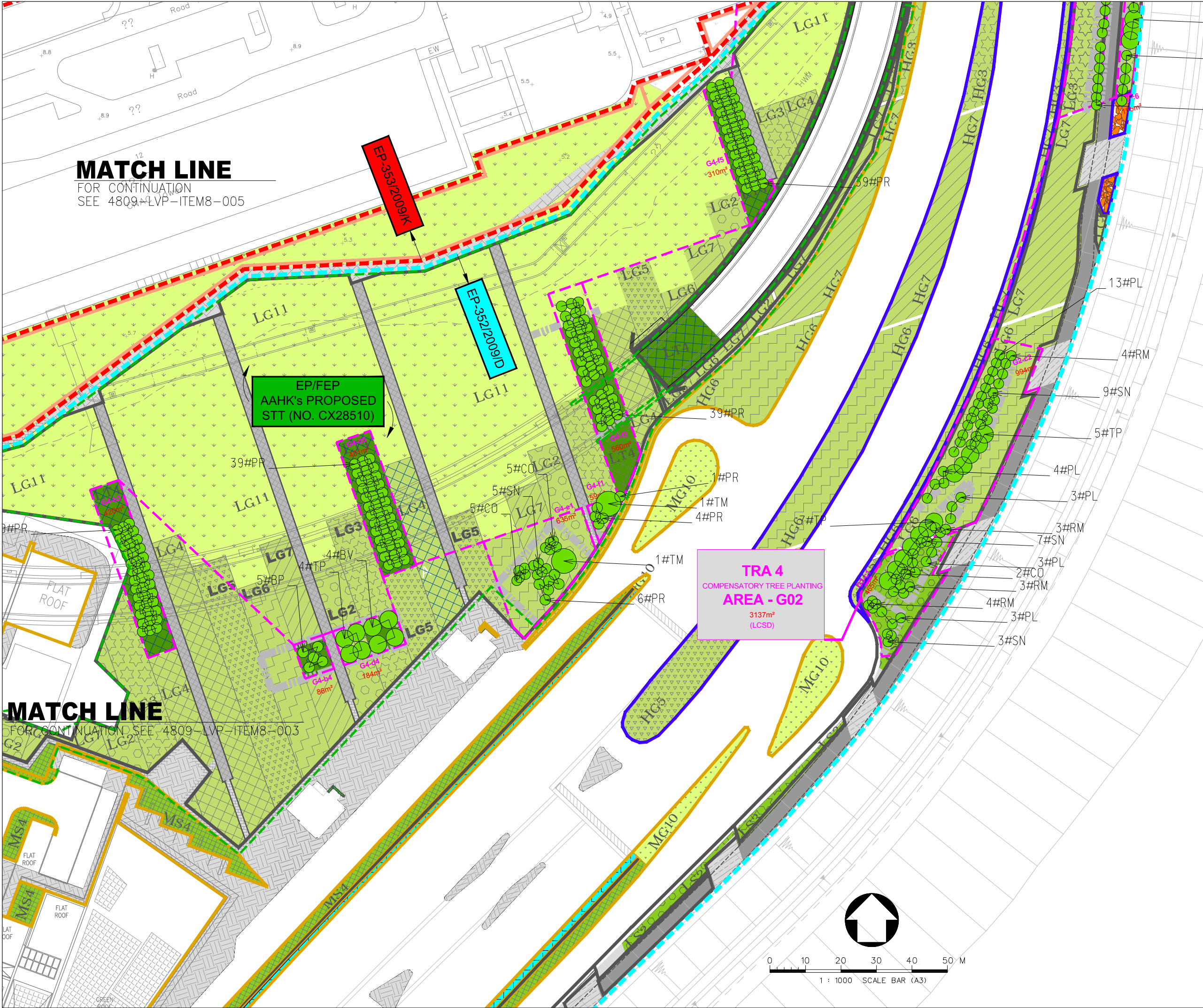
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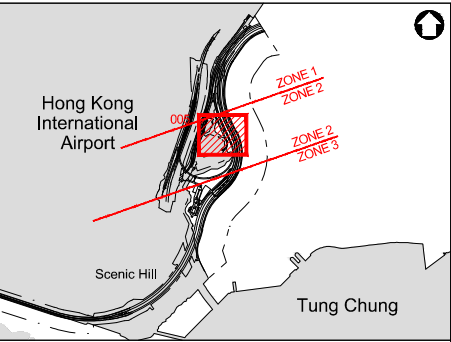
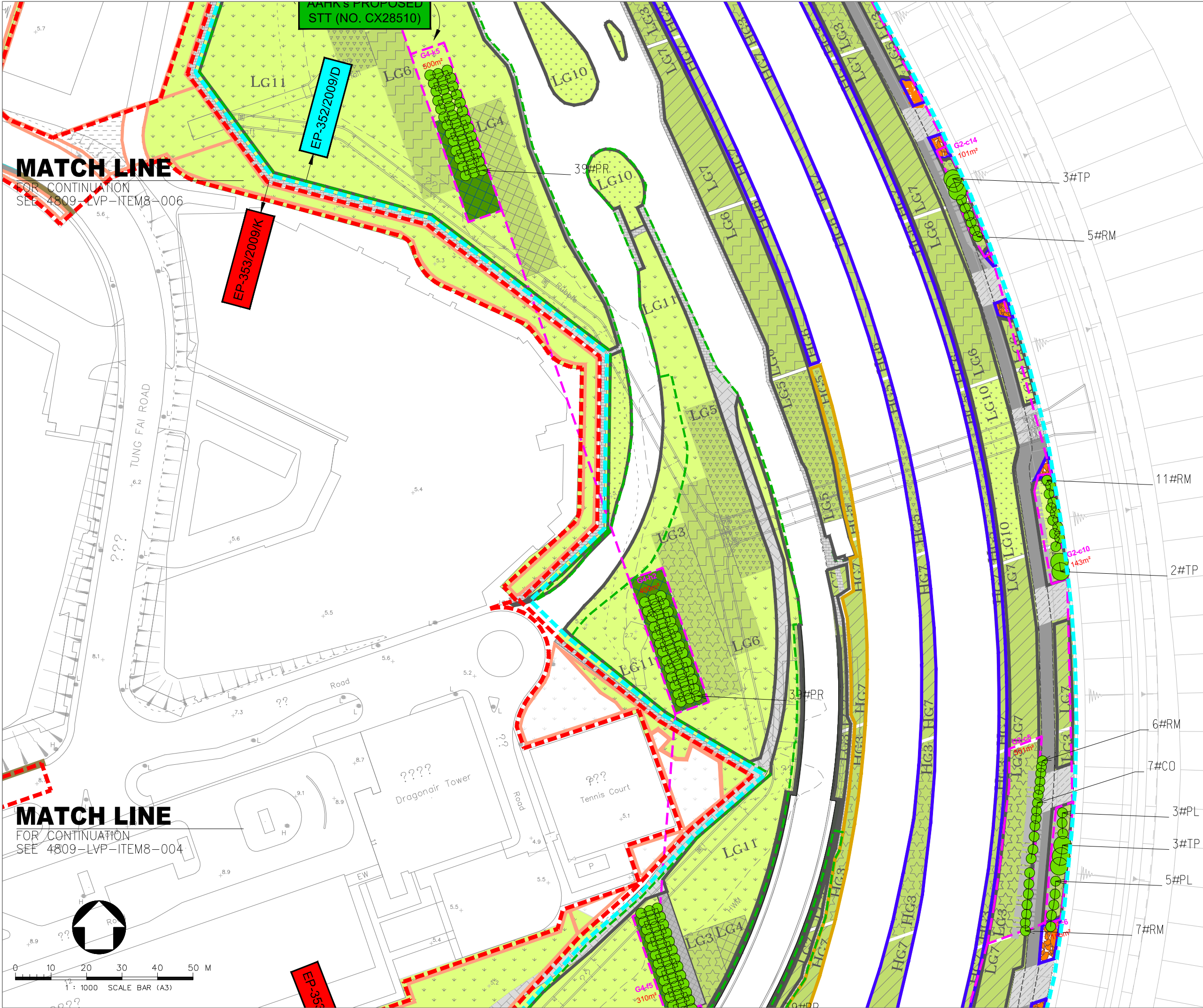
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Hong Kong Project Management Office



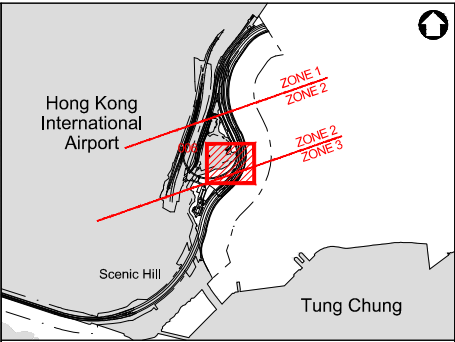
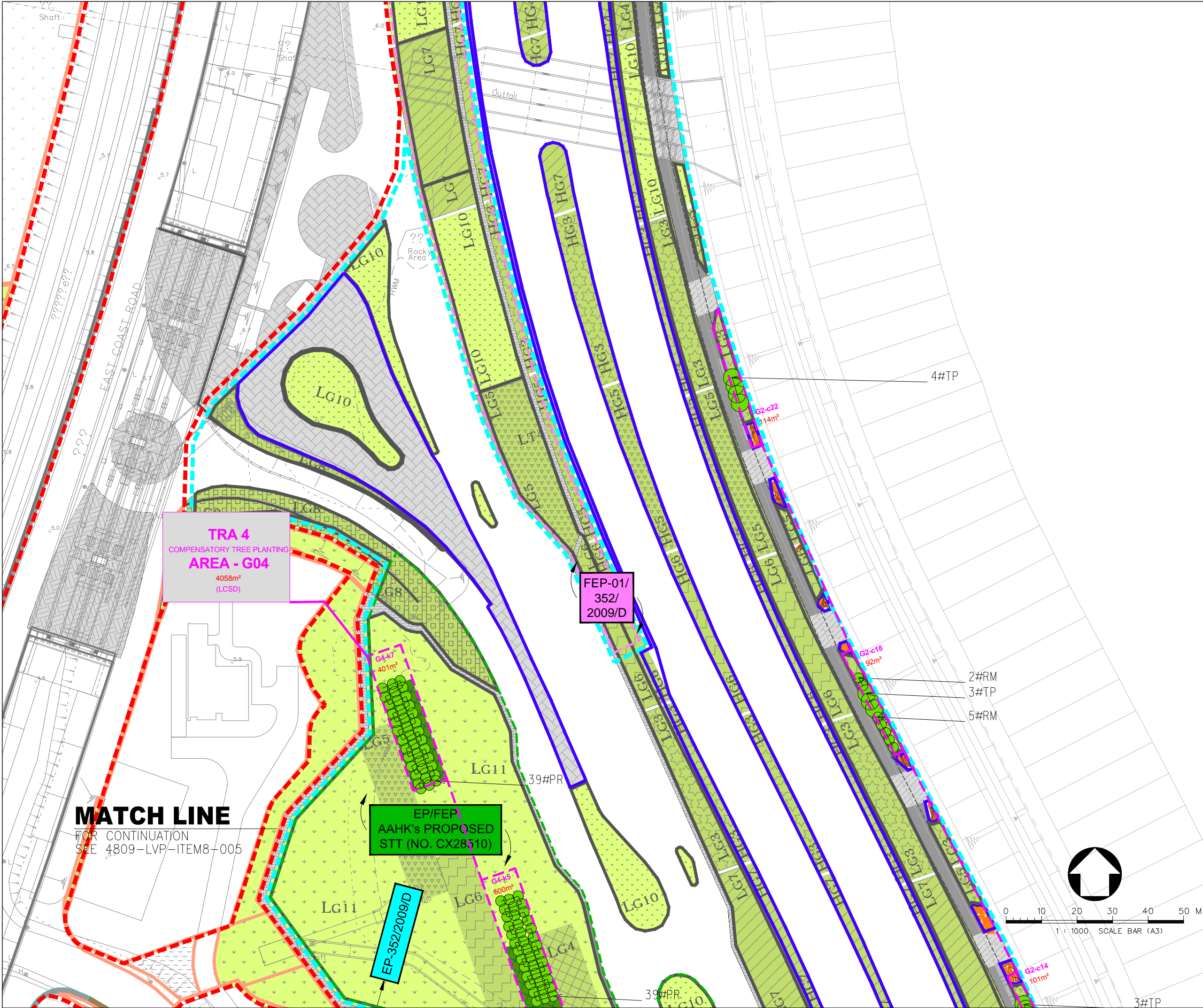
- LEGEND :**
- COMPENSATORY AREA (AAHK)
 - COMPENSATORY AREA (LCSD)
 - COMPENSATE TREE
 - EP-353/2009/K BOUNDARY
 - EP-352/2009/D BOUNDARY
 - FEP-01-352/2009/D BOUNDARY
 - EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
 - HIGHWAY DEPARTMENT
 - HONG KONG AIRPORT AUTHORITY (AAHK)
 - LANDSD
 - LCSD
 - TUNNEL CONTROL AUTHORITY (TD/MOm)

A	LVP SUBMISSION	LAM	31OCT19
Rev	Description	By	Date
Supervising Officer			
<div>ARUP 奧雅納工程顧問</div> <div>Ove Arup & Partners Hong Kong Limited</div>			
<div>Contractor</div> <div><div></div><div>中國建築工程(香港)有限公司</div><div>CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.</div></div>			
<div>Contractor's Designer</div> <div><div>ATKINS 阿特金斯</div></div>			
Contract No. and Title:			
Contract No. HY/2011/03			
Hong Kong-Zhuhai-Macao Bridge			
Hong Kong Link Road -			
Section Between Scenic Hill and			
Hong Kong Boundary Crossing Facilities			
Drawing title			
DESIGN PHASE MITIGATION			
MEASURES PLANS (LMM)			
ITEM 8: MAXIMIZE NEW TREE SHRUB			
AND OTHER VEGETATION PLANTING			
TO COMPENSATE TREE FELLED			
AND VEGETATION REMOVED			
(SHEET 4 OF 6)			
Drawing no.		4809-LVP-ITEM8-004	Rev. A
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- LEGEND :**
- COMPENSATORY AREA (AAHK)
 - COMPENSATORY AREA (LCSD)
 - COMPENSATE TREE
 - EP-353/2009/K BOUNDARY
 - EP-352/2009/D BOUNDARY
 - FEP-01-352/2009/D BOUNDARY
 - EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
 - HIGHWAY DEPARTMENT
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中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.				
Contractor's Designer				
ATKINS 阿特金斯				
Contract No. and Title:				
Contract No. HY/2011/03				
Hong Kong-Zhuhai-Macao Bridge				
Hong Kong Link Road -				
Section Between Scenic Hill and				
Hong Kong Boundary Crossing Facilities				
Drawing title				
DESIGN PHASE MITIGATION MEASURES PLANS (LMM)				
ITEM 8: MAXIMIZE NEW TREE SHRUB AND OTHER VEGETATION PLANTING TO COMPENSATE TREE FELLED AND VEGETATION REMOVED (SHEET 5 OF 6)				
Drawing no.				Rev.
4809-LVP-ITEM8-005				A
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Scale	A1	Status	1:500	Approved
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LEGEND :	
	COMPENSATORY AREA (AAHK)
	COMPENSATORY AREA (LCSD)
	COMPENSATE TREE
	EP-353/2009/K BOUNDARY
	EP-352/2009/D BOUNDARY
	FEP-01-352/2009/D BOUNDARY
	EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
	HIGHWAY DEPARTMENT
	HONG KONG AIRPORT AUTHORITY (AAHK)
	LANDSD
	LCSD
	TUNNEL CONTROL AUTHORITY (TD/MOm)

A		LVP SUBMISSION	LAM	31OCT19
Rev	Description	By	Date	
Supervising Officer				
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited				
Contractor				
中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.				
Contractor's Designer				
ATKINS 阿特金斯				
Contract No. and Title:				
Contract No. HY/2011/03				
Hong Kong-Zhuhai-Macao Bridge				
Hong Kong Link Road -				
Section Between Scenic Hill and				
Hong Kong Boundary Crossing Facilities				
Drawing title				
DESIGN PHASE MITIGATION MEASURES PLANS (LMM)				
ITEM 8: MAXIMIZE NEW TREE SHRUB AND OTHER VEGETATION PLANTING TO COMPENSATE TREE FELLED AND VEGETATION REMOVED (SHEET 6 OF 6)				
Drawing no.		4809-LVP-ITEM8-006		Rev. A
Drawn	KIT	Date	31/10/2019	Checked WK
Scale	A1	Status	—	Approved LAM
1:500				
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Item 8 - Maximizing new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed

(Refer to Section 4.3 of LVP)



Rev	Description	By	Date

Consultant			
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited			

Contract No. and Title:			
Contract No. HY/2011/03			
Hong Kong-Zhuhai-Macao Bridge			
Hong Kong Link Road -			
Section Between Scenic Hill and			
Hong Kong Boundary Crossing Facilities			

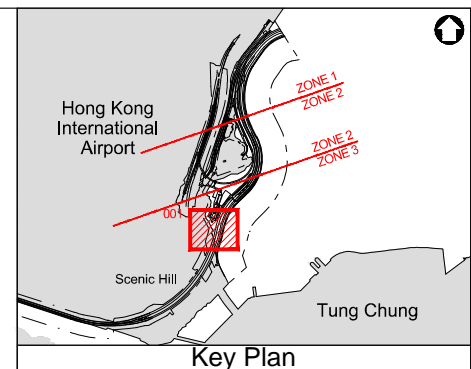
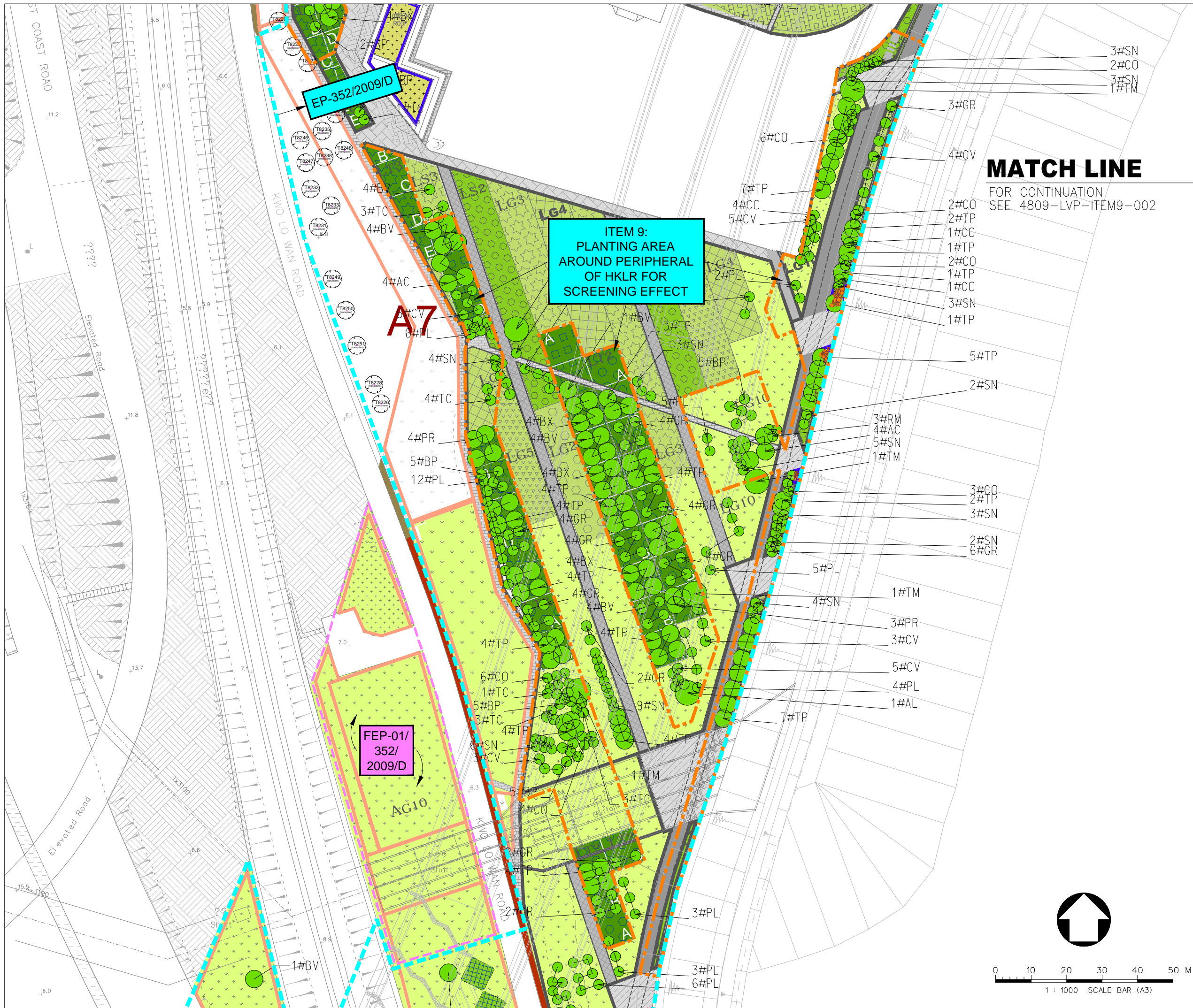
Drawing title			
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Design Phase Mitigation
Measures Plans (LMM)
Planting of New Trees /
Shrubs / Vegetation

Drawing no.			Rev.
Item 8			
Drawn	Date	Checked	Approved
Scale	Status		

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- LEGEND :**
- EP-353/2009/K BOUNDARY
 - EP-352/2009/D BOUNDARY
 - FEP-01-352/2009/D BOUNDARY
 - EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
 - PLANTING AREA AROUND PERIPHERAL OF HKLR
 - HIGHWAY DEPARTMENT
 - HONG KONG AIRPORT AUTHORITY (AAHK)
 - LANDSD
 - LCSD
 - TUNNEL CONTROL AUTHORITY (TD/MOm)
 - COMPENSATE TREE

A	LVP SUBMISSION	LAM	31OCT19
Rev	Description	By	Date

Supervising Officer
ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contractor
中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Contractor's Designer
ATKINS 阿特金斯

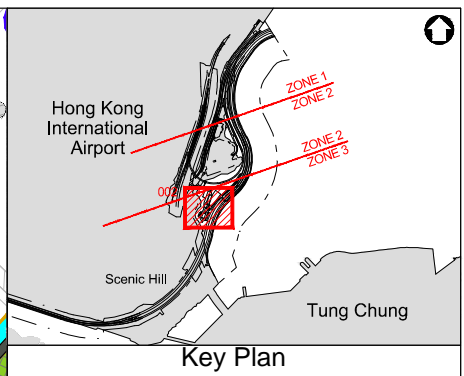
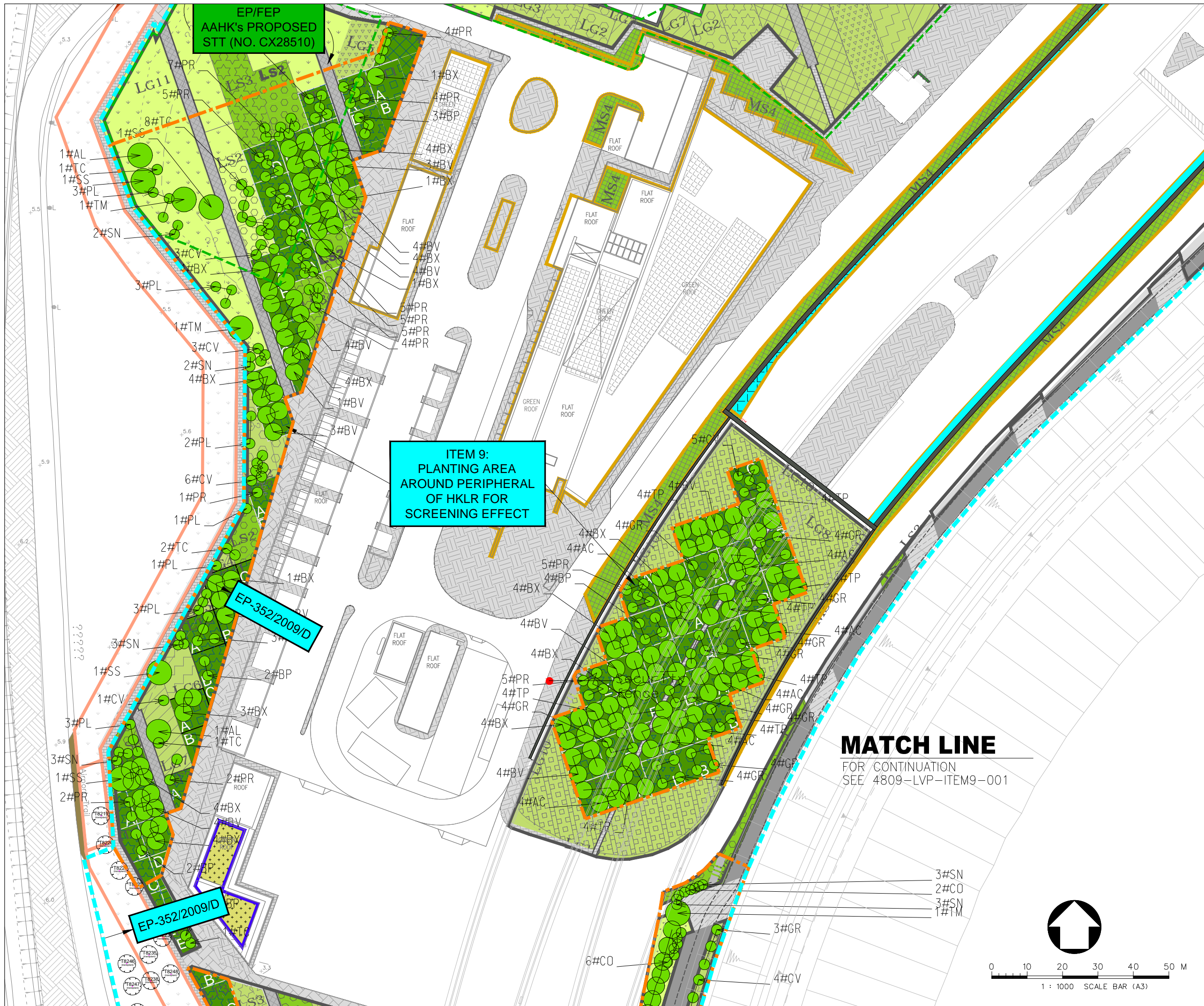
Contract No. and Title:
Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title
DESIGN PHASE MITIGATION MEASURES PLANS (LMM & VMM)
ITEM 9:
PLANTING AREA AROUND PERIPHERAL OF HKLR UNDER EP-352/2009/D
(SHEET 1 OF 2)

Drawing no.	4809-LVP-ITEM9-001	Rev.	A
Drawn	KIT	Date	31/10/2019
Scale	A1	Checked	WK
	1:500	Approved	LAM
		Status	—

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Hong Kong Project Management Office



LEGEND :

- EP-353/2009/K BOUNDARY
- EP-352/2009/D BOUNDARY
- FEP-01-352/2009/D BOUNDARY
- EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
- PLANTING AREA AROUND PERIPHERAL OF HKLR
- HIGHWAY DEPARTMENT
- HONG KONG AIRPORT AUTHORITY (AAHK)
- LANDSD
- LCSD
- TUNNEL CONTROL AUTHORITY (TD/MOm)
- COMPENSATE TREE

A	LVP SUBMISSION		LAM	31OCT19
Rev	Description		By	Date
Supervising Officer				
<div>ARUP</div> <div>奧雅納工程顧問</div> <div>Ove Arup & Partners Hong Kong Limited</div>				
Contractor				
<div> 中國建築工程(香港)有限公司</div> <div>CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.</div>				
Contractor's Designer				
<div>ATKINS</div> <div>阿特金斯</div>				
Contract No. and Title:				
Contract No. HY/2011/03				
Hong Kong-Zhuhai-Macao Bridge				
Hong Kong Link Road -				
Section Between Scenic Hill and				
Hong Kong Boundary Crossing Facilities				
Drawing title				
DESIGN PHASE MITIGATION				
MEASURES PLANS (LMM & VMM)				
ITEM 9:				
PLANTING AREA AROUND				
PERIPHERAL OF HKLR				
UNDER EP-352/2009/D				
(SHEET 2 OF 2)				
Drawing no.			Rev.	
4809-LVP-ITEM9-002			A	
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KIT	31/10/2019	WK	LAM	
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**Item 9 - Providing planting area around peripheral of HKLR
for tree planting screening effect**

(Refer to Section 4.3 of LVP)

Rev	Description	By	Date
Consultant			
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited			
Contract No. and Title:			
Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities			
Drawing title			
Design Phase Mitigation Measures Plans (LMM & VMM) Planting Screening Effect around peripheral of HKLR			
Drawing no.		Rev.	
Item 9			
Drawn	Date	Checked	Approved
Scale	Status		

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**Item 9 - Providing planting area around peripheral of HKLR
for tree planting screening effect**

(Refer to Section 4.3 of LVP)

Rev	Description	By	Date

Consultant			
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited			

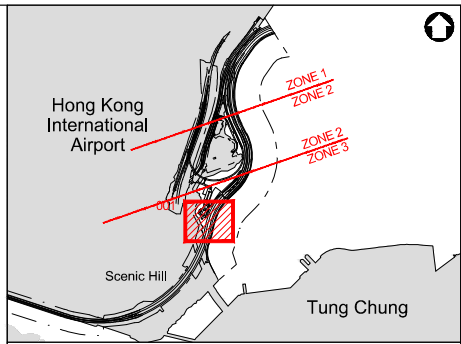
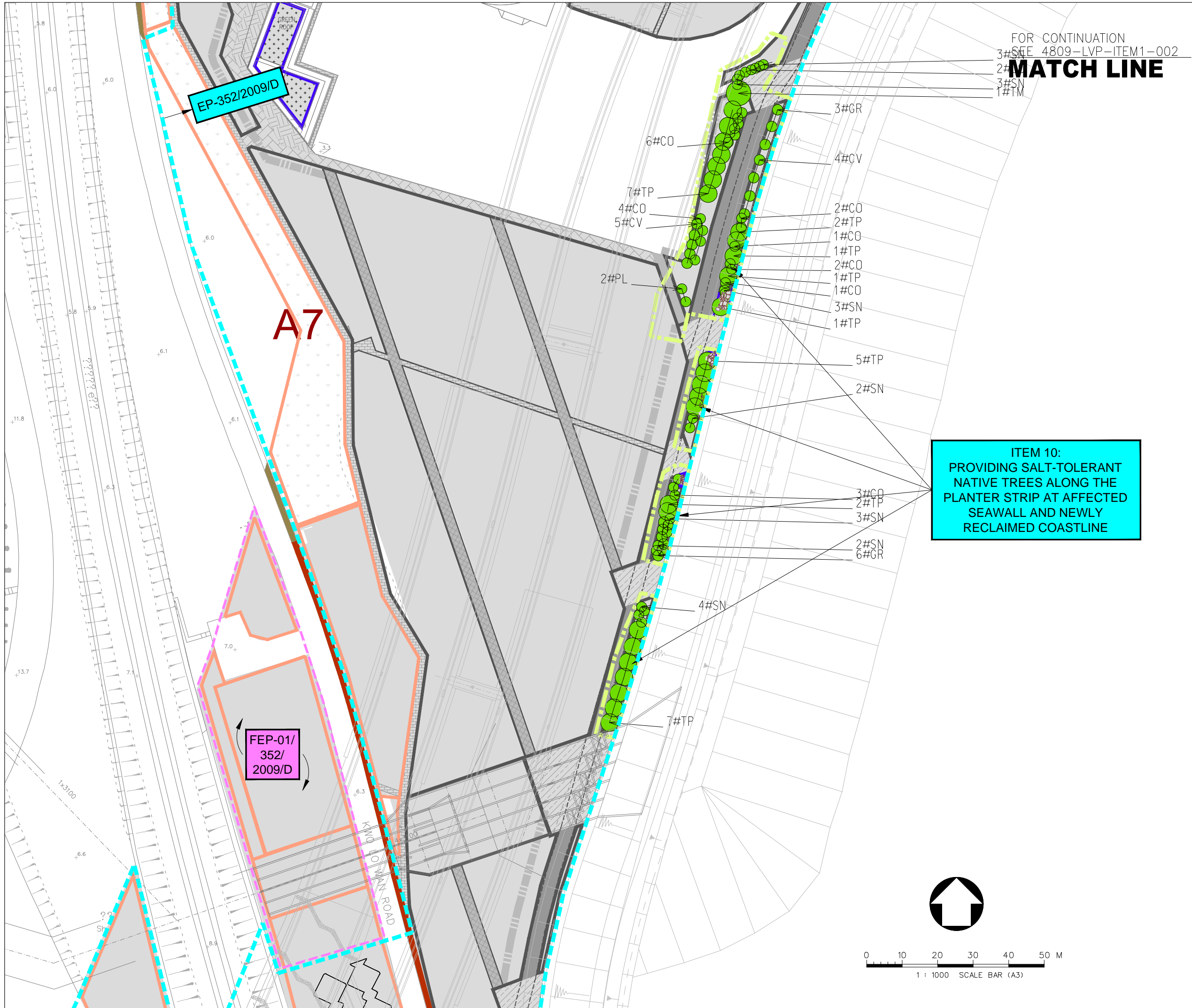
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Drawing title			
Design Phase Mitigation Measures Plans (LMM & VMM) Planting Screening Effect around peripheral of HKLR			

Drawing no. Item 9			Rev.
Drawn	Date	Checked	Approved
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Key Plan

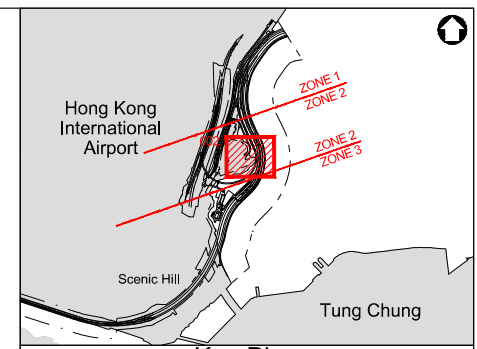
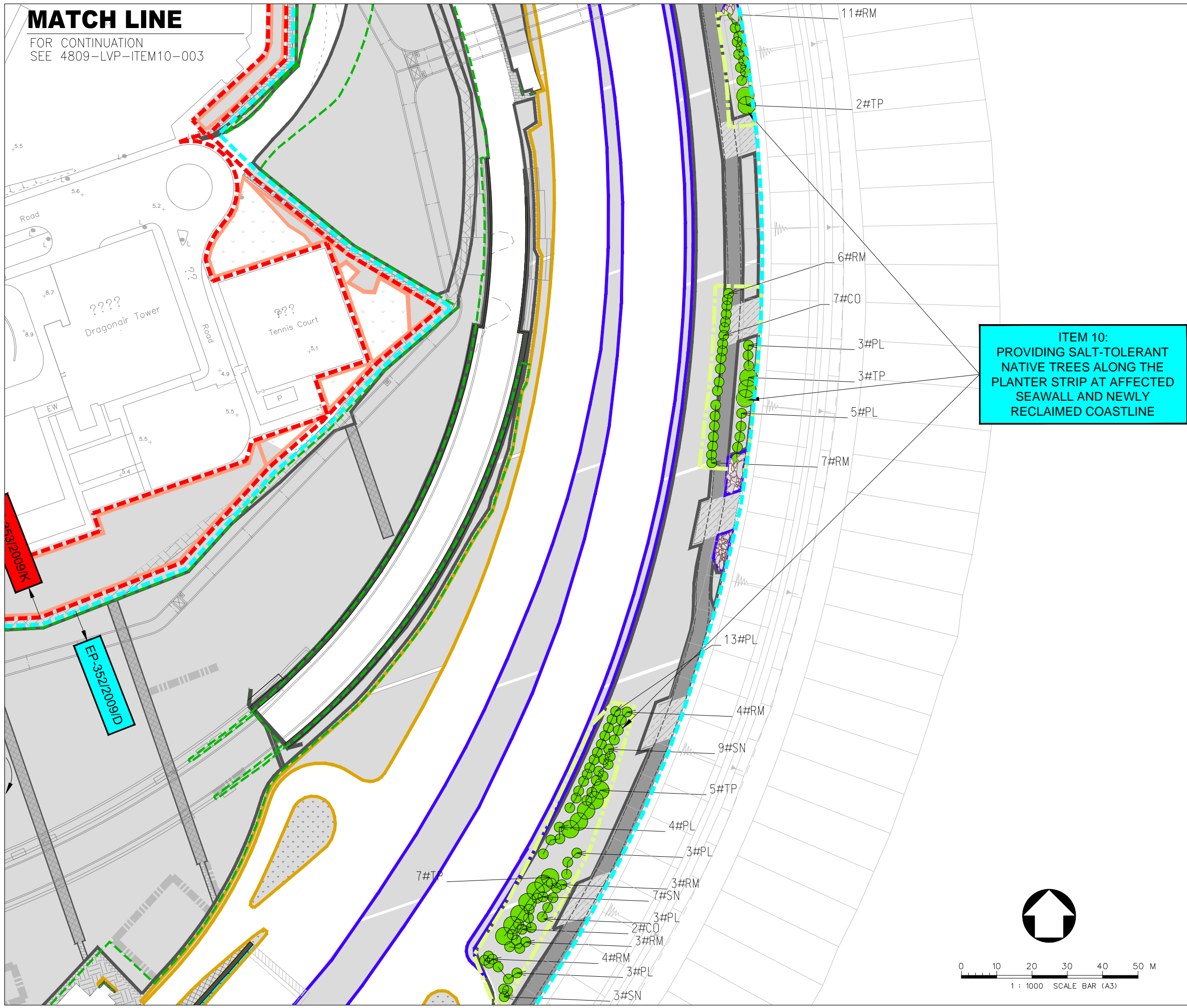
LEGEND :

- EP-353/2009/K BOUNDARY
- EP-352/2009/D BOUNDARY
- FEP-01-352/2009/D BOUNDARY
- EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
- SALT-TOLERANT NATIVE TREES ALONG SEAWALL
- HIGHWAY DEPARTMENT
- HONG KONG AIRPORT AUTHORITY (AAHK)
- LANDSD
- LCSD
- TUNNEL CONTROL AUTHORITY (TD/MOm)
- COMPENSATE TREE

A	LVP SUBMISSION	LAM	31OCT19
Rev	Description	By	Date
Supervising Officer			
<div>ARUP</div> <div>奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited</div>			
Contractor			
<div>CSCEC</div> <div>中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.</div>			
Contractor's Designer			
<div>ATKINS</div> <div>阿特金斯</div>			
Contract No. and Title:			
Contract No. HY/2011/03			
Hong Kong-Zhuhai-Macao Bridge			
Hong Kong Link Road -			
Section Between Scenic Hill and			
Hong Kong Boundary Crossing Facilities			
Drawing title			
DESIGN PHASE MITIGATION MEASURES PLANS (LMM) ITEM 10: PROVIDING SALT-TOLERANT NATIVE TREES ALONG SEAWALL LAYOUT PLAN (SHEET 1 OF 3)			
Drawing no.			Rev.
4809-LVP-ITEM10-001			A
Drawn	Date	Checked	Approved
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Scale	Status		
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MATCH LINE

FOR CONTINUATION
SEE 4809-LVP-ITEM10-003



- LEGEND :**
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 - EP-352/2009/D BOUNDARY
 - FEP-01-352/2009/D BOUNDARY
 - EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
 - SALT-TOLERANT NATIVE TREES ALONG SEAWALL
 - HIGHWAY DEPARTMENT
 - HONG KONG AIRPORT AUTHORITY (AAHK)
 - LANDSD
 - LCSD
 - TUNNEL CONTROL AUTHORITY (TD/MOm)
 - COMPENSATE TREE

A	LVP SUBMISSION	LAM	31OCT19
Rev	Description	By	Date

Supervising Officer
ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contractor
中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Contractor's Designer
ATKINS 阿特金斯

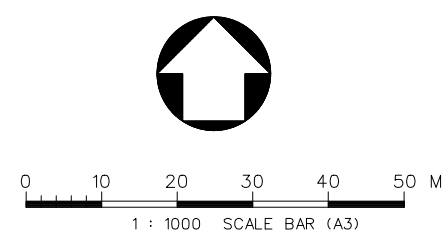
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Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

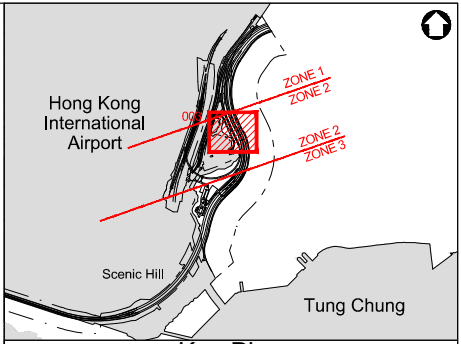
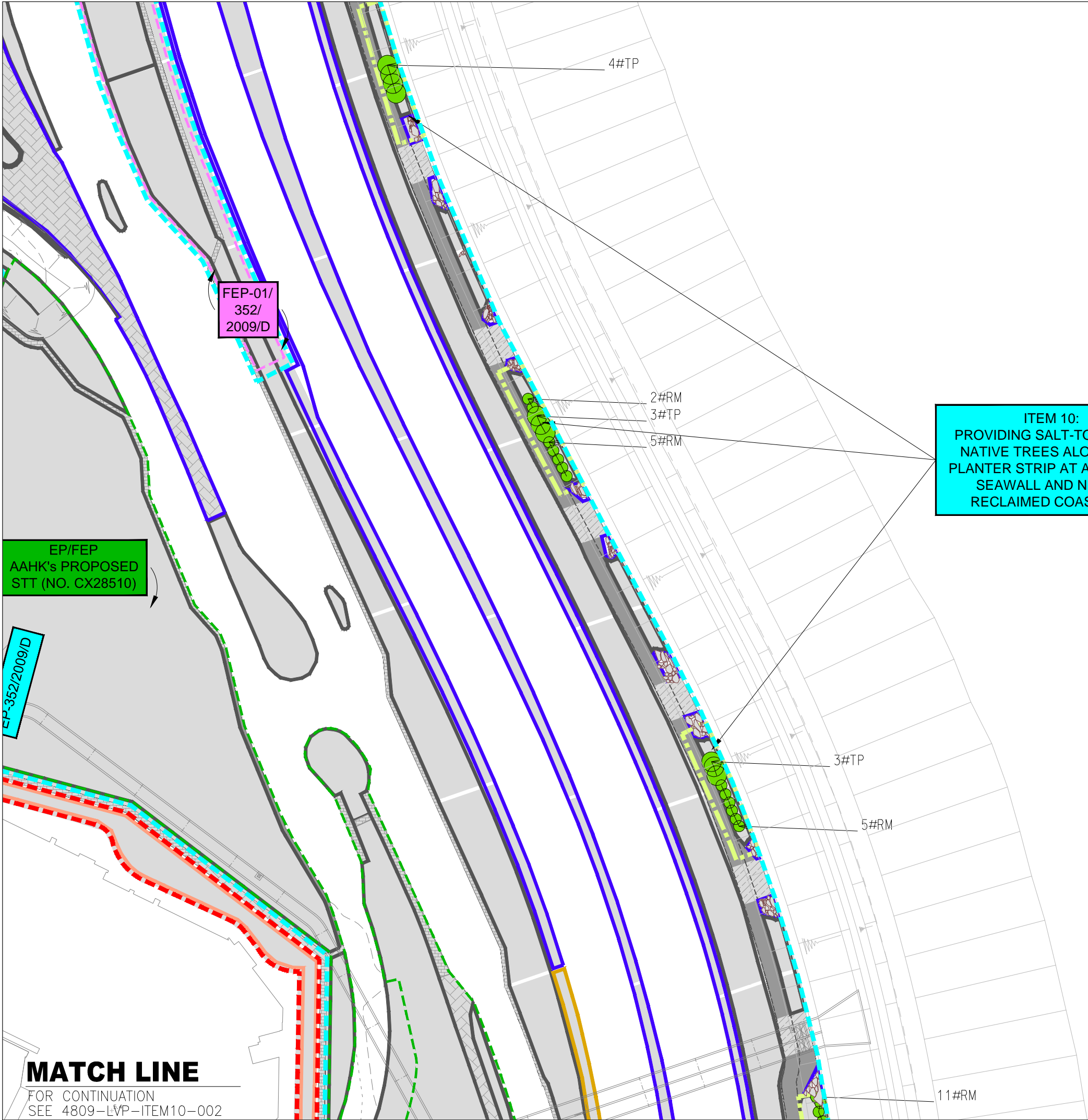
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**DESIGN PHASE MITIGATION
MEASURES PLANS (LMM)
ITEM 10:
PROVIDING SALT-TOLERANT
NATIVE TREES ALONG SEAWALL
LAYOUT PLAN (SHEET 2 OF 3)**

Drawing no.	4809-LVP-ITEM10-002			Rev.	A
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Scale	A1	Status	1:500	Approved	LAM

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Hong Kong-Zhuhai-Macao Bridge
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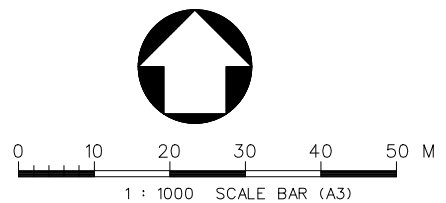


Key Plan

- LEGEND :
- EP-353/2009/K BOUNDARY
 - EP-352/2009/D BOUNDARY
 - FEP-01-352/2009/D BOUNDARY
 - EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
 - SALT-TOLERANT NATIVE TREES ALONG SEAWALL
 - HIGHWAY DEPARTMENT
 - HONG KONG AIRPORT AUTHORITY (AAHK)
 - LANDSD
 - LCSD
 - TUNNEL CONTROL AUTHORITY (TD/MOm)
 - COMPENSATE TREE

A	LVP SUBMISSION		LAM	31OCT19
Rev	Description		By	Date
Supervising Officer				
<div>ARUP</div> <div>奧雅納工程顧問</div> <div>Ove Arup & Partners Hong Kong Limited</div>				
Contractor				
<div>中國建築工程(香港)有限公司</div> <div>CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.</div>				
Contractor's Designer				
<div>ATKINS</div> <div>阿特金斯</div>				
Contract No. and Title:				
Contract No. HY/2011/03				
Hong Kong-Zhuhai-Macao Bridge				
Hong Kong Link Road -				
Section Between Scenic Hill and				
Hong Kong Boundary Crossing Facilities				
Drawing title				
DESIGN PHASE MITIGATION				
MEASURES PLANS (LMM)				
ITEM 10:				
PROVIDING SALT-TOLERANT				
NATIVE TREES ALONG SEAWALL				
LAYOUT PLAN (SHEET 3 OF 3)				
Drawing no.			Rev.	
4809-LVP-ITEM10-003			A	
Drawn	KIT	Date	Checked	Approved
		31/10/2019	WK	LAM
Scale	A1		Status	
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Item 10 - Providing salt-tolerant native trees (e.g. *Thespesia populnea*) along the planter strip at affected seawall and newly reclaimed coastline

(Refer to Section 4.3 of LVP)

Rev	Description	By	Date

Consultant			
ARUP		奧雅納工程顧問	
Ove Arup & Partners Hong Kong Limited			

Contract No. and Title:			
Contract No. HY/2011/03			
Hong Kong-Zhuhai-Macao Bridge			
Hong Kong Link Road -			
Section Between Scenic Hill and			
Hong Kong Boundary Crossing Facilities			

Drawing title			
Design Phase Mitigation Measures Plans (LMM)			
Provision of Salt-tolerant Native Trees along Newly Reclaimed Coastline			

Drawing no.		Rev.	
Item 10			
Drawn	Date	Checked	Approved
Scale	Status		

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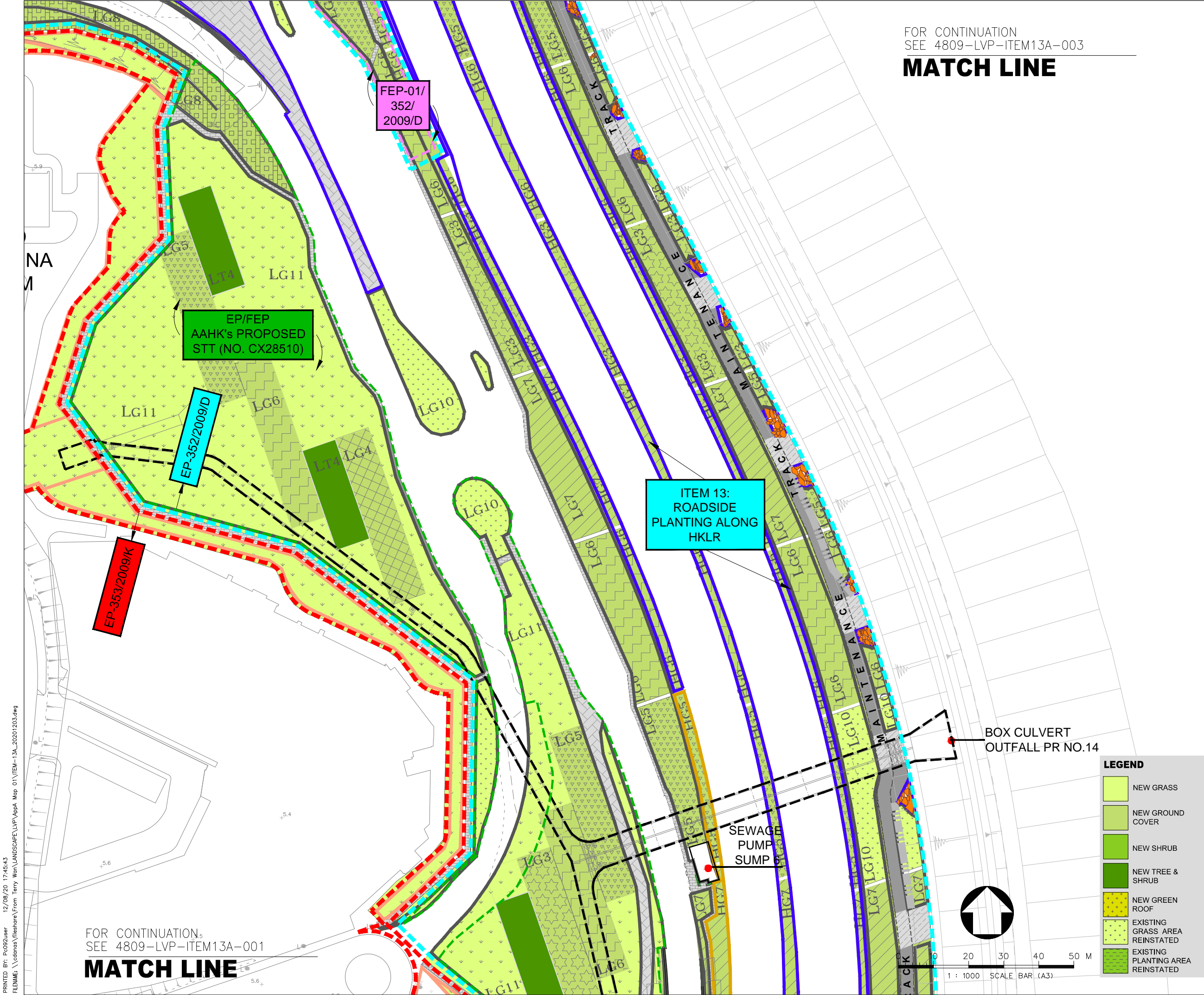
路政署

HIGHWAYS DEPARTMENT

港珠澳大橋香港工程管理局

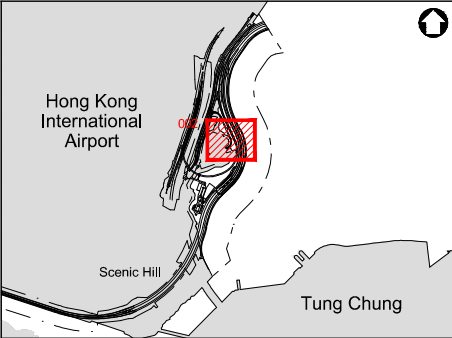
Hong Kong - Zhuhai - Macao Bridge

Hong Kong Project Management Office



FOR CONTINUATION
SEE 4809-LVP-ITEM13A-003

MATCH LINE



Key Plan

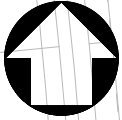
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- FEP-01/352/2009/D BOUNDARY
- EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
- HIGHWAY DEPARTMENT
- HONG KONG AIRPORT AUTHORITY (AAHK)
- LANDSD
- LCSD
- TUNNEL CONTROL AUTHORITY (TD/MOm)

A		LVP SUBMISSION		TW	31OCT19
Rev	Description	By	Date		
Supervising Officer					
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited					
Contractor					
中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.					
Contractor's Designer					
ATKINS 阿特金斯					
Contract No. and Title:					
Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities					
Drawing title					
DESIGN PHASE MITIGATION MEASURES PLANS (VMM) ITEM 13: ROADSIDE PLANTING ALONG HKLR (SHEET 2 OF 5)					
Drawing no.		4809-LVP-ITEM13A-002		Rev.	A
Drawn	KIT	Date	31/10/2019	Checked	WK
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Approved LAM					
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LEGEND

- NEW GRASS
- NEW GROUND COVER
- NEW SHRUB
- NEW TREE & SHRUB
- NEW GREEN ROOF
- EXISTING GRASS AREA REINSTATED
- EXISTING PLANTING AREA REINSTATED



1 : 1000 SCALE BAR (A3)

FOR CONTINUATION
SEE 4809-LVP-ITEM13A-001

MATCH LINE

MATCH LINE



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	EP-352/2009/D BOUNDARY
	FEP-01/352/2009/D BOUNDARY
	EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
	HIGHWAY DEPARTMENT
	HONG KONG AIRPORT AUTHORITY (AAHK)
	LANDSD
	LCSD
	TUNNEL CONTROL AUTHORITY (TD/MOm)

Supervising Officer

ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contractor's Designer

ATKINS 阿特金斯

Drawing title

DESIGN PHASE MITIGATION
MEASURES PLANS (VMM)
ITEM 13:
ROADSIDE PLANTING ALONG
HKLR
(SHEET 3 OF 5)

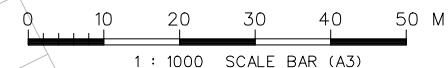
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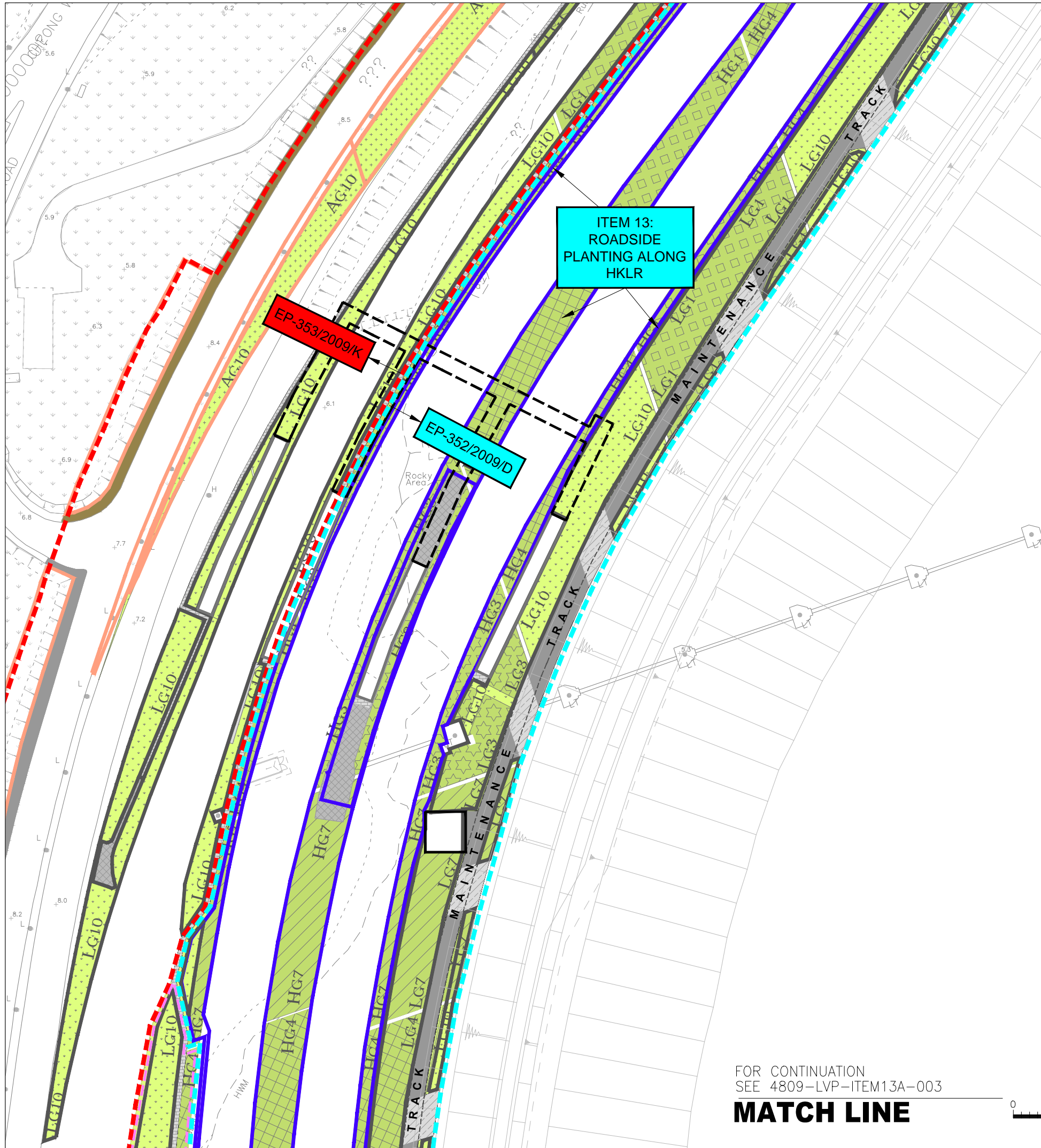
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- NEW SHRUB
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- NEW GREEN ROOF
- EXISTING GRASS AREA REINSTATED
- EXISTING PLANTING AREA REINSTATED

MATCH LINE



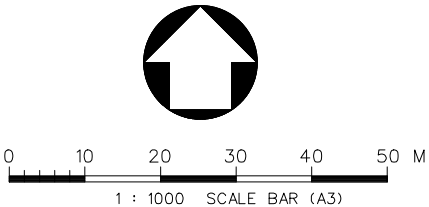
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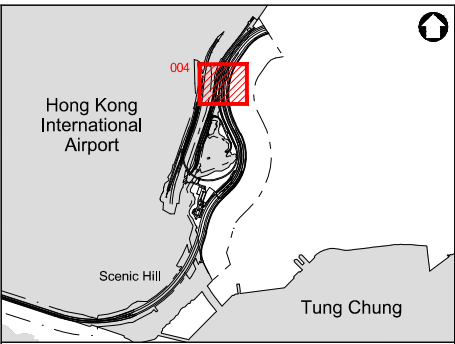


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SEE 4809-LVP-ITEM13A-005
MATCH LINE

FOR CONTINUATION
SEE 4809-LVP-ITEM13A-003
MATCH LINE



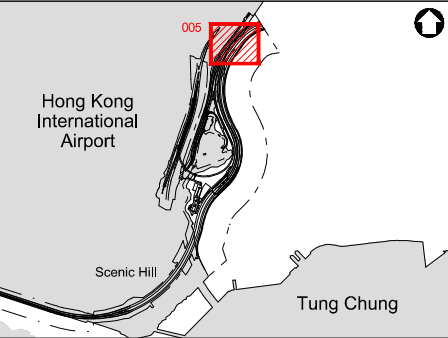
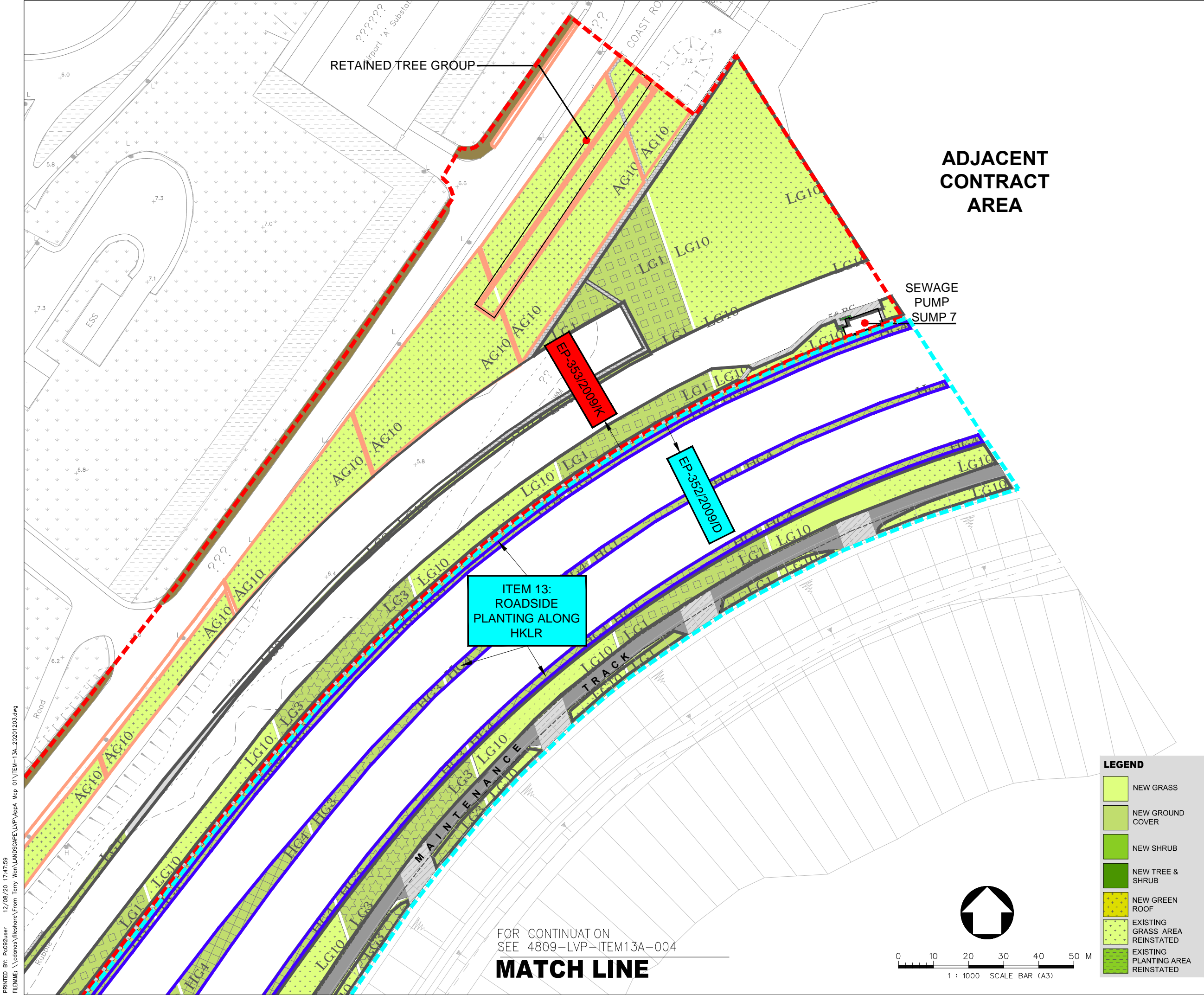
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	NEW GREEN ROOF
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	EXISTING PLANTING AREA REINSTATED



Key Plan

LEGEND :	
	EP-353/2009/K BOUNDARY
	EP-352/2009/D BOUNDARY
	FEP-01/352/2009/D BOUNDARY
	EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
	HIGHWAY DEPARTMENT
	HONG KONG AIRPORT AUTHORITY (AAHK)
	LANDSD
	LCSD
	TUNNEL CONTROL AUTHORITY (TD/MOm)

A	LVP SUBMISSION			TW	31OCT19
Rev	Description			By	Date
Supervising Officer					
ARUP		奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited			
Contractor					
		中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.			
Contractor's Designer					
ATKINS		阿特金斯			
Contract No. and Title:					
Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities					
Drawing title					
DESIGN PHASE MITIGATION MEASURES PLANS (VMM) ITEM 13: ROADSIDE PLANTING ALONG HKLR (SHEET 4 OF 5)					
Drawing no.				Rev.	
4809-LVP-ITEM13A-004				A	
Drawn	KIT	Date	31/10/2019	Checked	WK
Scale	1:500		Approved LAM		
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- LEGEND :
- EP-353/2009/K BOUNDARY
 - EP-352/2009/D BOUNDARY
 - FEP-01/352/2009/D BOUNDARY
 - EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
 - HIGHWAY DEPARTMENT
 - HONG KONG AIRPORT AUTHORITY (AAHK)
 - LANDSD
 - LCSD
 - TUNNEL CONTROL AUTHORITY (TD/MOm)

A		LVP SUBMISSION		TW	31OCT19
Rev	Description			By	Date
Supervising Officer					
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited					
Contractor 中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.					
Contractor's Designer ATKINS 阿特金斯					
Contract No. and Title: Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities					
Drawing title DESIGN PHASE MITIGATION MEASURES PLANS (VMM) ITEM 13: ROADSIDE PLANTING ALONG HKLR (SHEET 5 OF 5)					
Drawing no. 4809-LVP-ITEM13A-005		Rev. A			
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Item 13 - Providing aesthetic design on at-grade roads (roadside planting along at-grade roads) to beautify the HKLR alignment
(Refer to Section 4.3 of LVP)

Rev	Description	By	Date

Consultant			
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited			

Contract No. and Title:			
Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities			

Drawing title			
Design Phase Mitigation Measures Plans (VMM) Roadside Planting along HKLR			

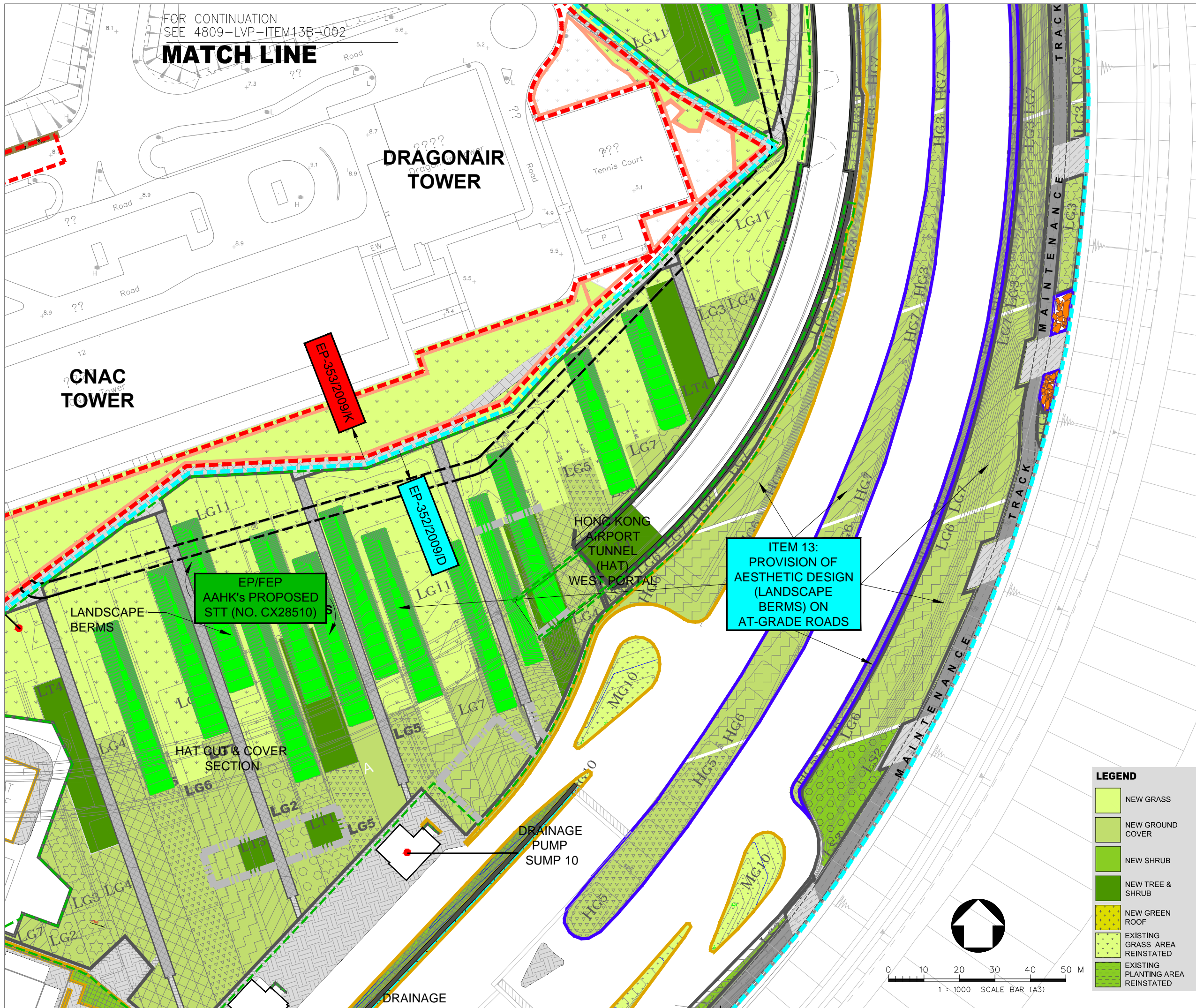
Drawing no.		Rev.	
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Hong Kong International Airport

Scenic Hill

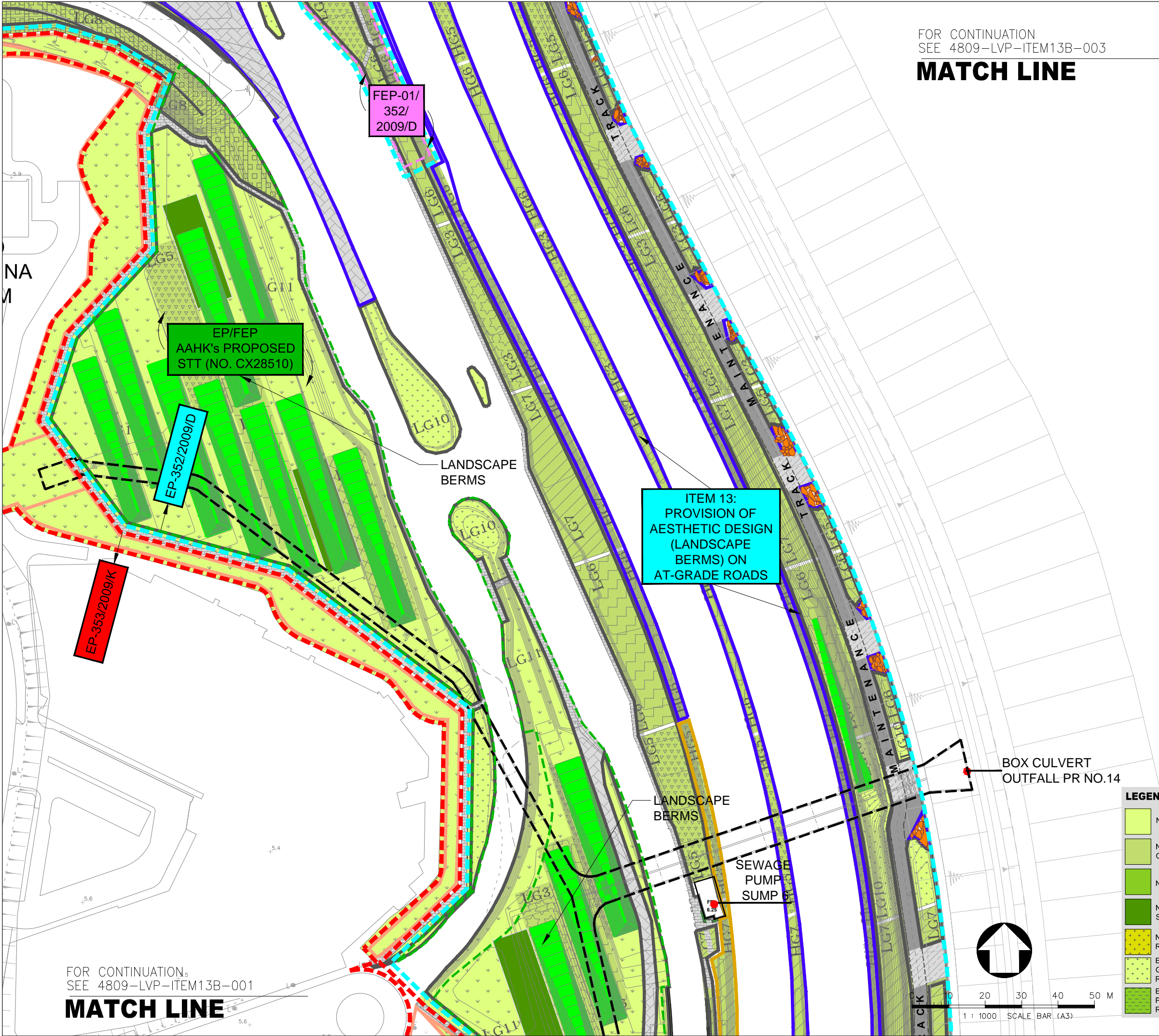
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Key Plan

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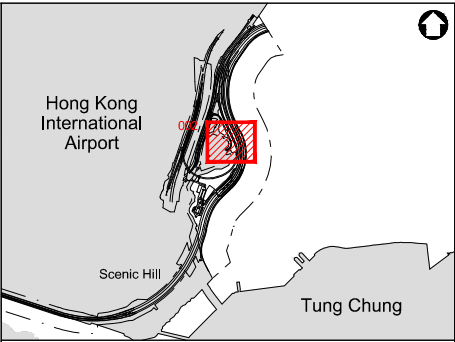
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- FEP-01/352/2009/D BOUNDARY
- EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
- HIGHWAY DEPARTMENT
- HONG KONG AIRPORT AUTHORITY (AAHK)
- LANDSD
- LCSD
- TUNNEL CONTROL AUTHORITY (TD/MOm)

A	LVP SUBMISSION	TW	31OCT19
Rev	Description	By	Date
Supervising Officer			
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited			
Contractor			
CSCEC 中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.			
Contractor's Designer			
ATKINS 阿特金斯			
Contract No. and Title:			
Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities			
Drawing title			
DESIGN PHASE MITIGATION MEASURES PLANS (VMM) ITEM 13: PROVISION OF AESTHETIC DESIGN (LANDSCAPE BERMS) (SHEET 1 OF 5)			
Drawing no.		Rev.	
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Drawn	Date	Checked	Approved
KIT	31/10/2019	WK	LAM
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FOR CONTINUATION
SEE 4809-LVP-ITEM13B-003

MATCH LINE



Key Plan

LEGEND :

- EP-353/2009/K BOUNDARY
- EP-352/2009/D BOUNDARY
- FEP-01/352/2009/D BOUNDARY
- EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
- HIGHWAY DEPARTMENT
- HONG KONG AIRPORT AUTHORITY (AAHK)
- LANDSD
- LCSD
- TUNNEL CONTROL AUTHORITY (TD/MOm)

A	LVP SUBMISSION	TW	31OCT19
Rev	Description	By	Date

Supervising Officer
ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contractor
CSCEC 中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Contractor's Designer
ATKINS 阿特金斯

Contract No. and Title:
Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title
DESIGN PHASE MITIGATION MEASURES PLANS (VMM)
ITEM 13:
PROVISION OF AESTHETIC DESIGN (LANDSCAPE BERMS)
(SHEET 2 OF 5)

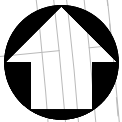
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Hong Kong Project Management Office

LEGEND

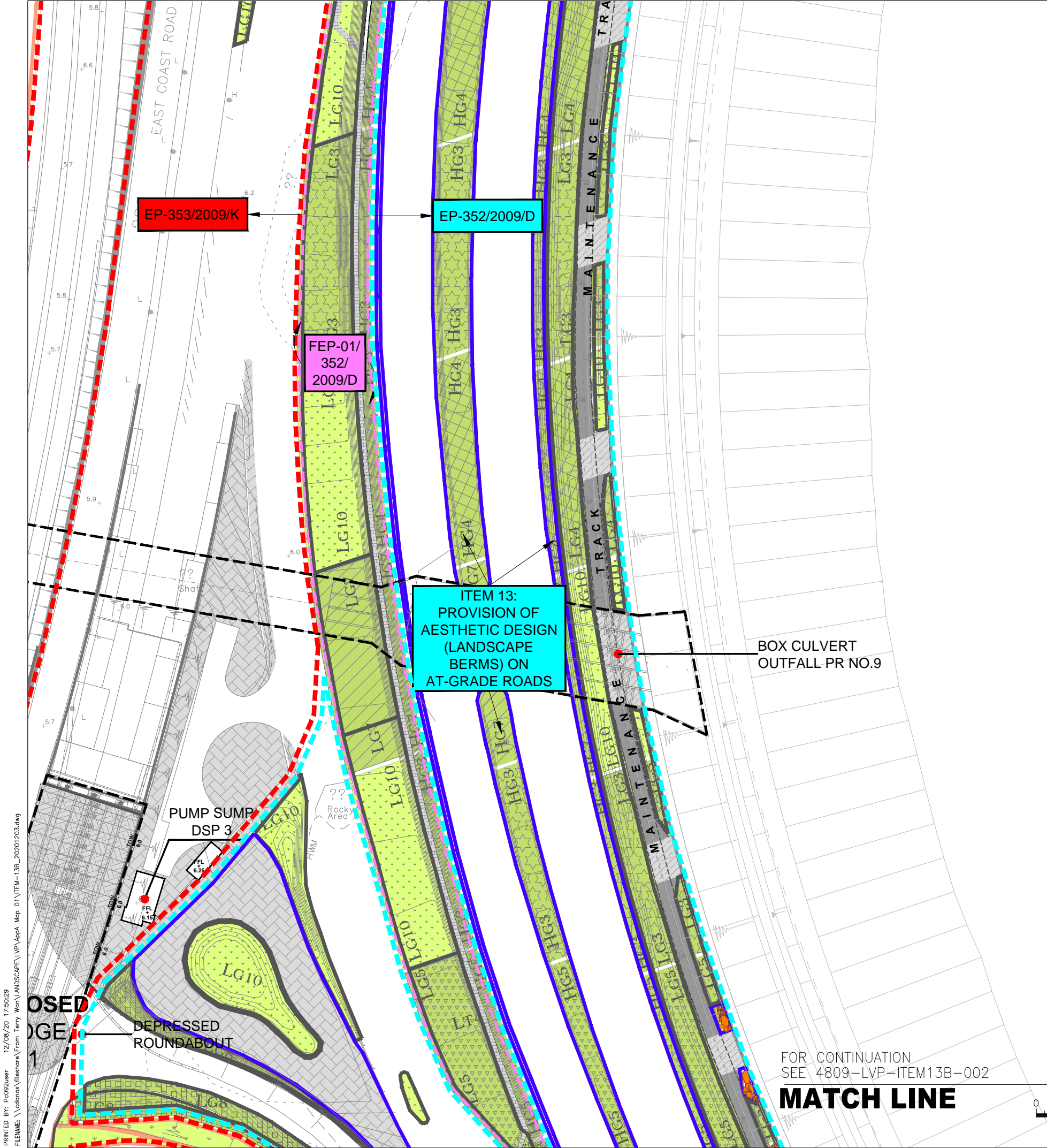
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- NEW SHRUB
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- NEW GREEN ROOF
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- EXISTING PLANTING AREA REINSTATED



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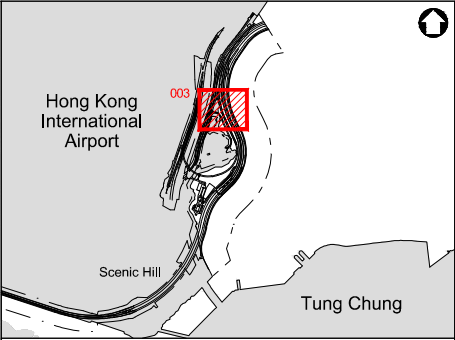
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SEE 4809-LVP-ITEM13B-001

MATCH LINE



FOR CONTINUATION
SEE 4809-LVP-ITEM13B-004

MATCH LINE



Key Plan

LEGEND :

- EP-353/2009/K BOUNDARY
- EP-352/2009/D BOUNDARY
- FEP-01/352/2009/D BOUNDARY
- EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
- HIGHWAY DEPARTMENT
- HONG KONG AIRPORT AUTHORITY (AAHK)
- LANDSD
- LCSD
- TUNNEL CONTROL AUTHORITY (TD/MOm)

A		LVP SUBMISSION	TW	31OCT19
Rev	Description	By	Date	
Supervising Officer				
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited				
Contractor				
CSCEC 中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.				
Contractor's Designer				
ATKINS 阿特金斯				
Contract No. and Title:				
Contract No. HY/2011/03				
Hong Kong-Zhuhai-Macao Bridge				
Hong Kong Link Road -				
Section Between Scenic Hill and				
Hong Kong Boundary Crossing Facilities				
Drawing title				
DESIGN PHASE MITIGATION MEASURES PLANS (VMM)				
ITEM 13:				
PROVISION OF AESTHETIC DESIGN (LANDSCAPE BERMS)				
(SHEET 3 OF 5)				
Drawing no.		4809-LVP-ITEM13B-003		Rev. A
Drawn	KIT	Date	31/10/2019	Checked WK
Scale	1:500	Status	-	Approved LAM
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LEGEND

- NEW GRASS
- NEW GROUND COVER
- NEW SHRUB
- NEW TREE & SHRUB
- NEW GREEN ROOF
- EXISTING GRASS AREA REINSTATED
- EXISTING PLANTING AREA REINSTATED

FOR CONTINUATION
SEE 4809-LVP-ITEM13B-002

MATCH LINE



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1 : 1000 SCALE BAR (A3)

MATCH LINE



	EP-353/2009/K BOUNDARY
	EP-352/2009/D BOUNDARY
	FEP-01/352/2009/D BOUNDARY
	EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
	HIGHWAY DEPARTMENT
	HONG KONG AIRPORT AUTHORITY (AAHK)
	LANDSD
	LCSD
	TUNNEL CONTROL AUTHORITY (TD/MOm)

Supervising Officer

ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contractor's Designer
ATKINS 阿特金斯

Drawing title

**DESIGN PHASE MITIGATION
MEASURES PLANS (VMM)**

**ITEM 13:
PROVISION OF AESTHETIC DESIGN
(LANDSCAPE BERMS)**
(SHEET 4 OF 5)

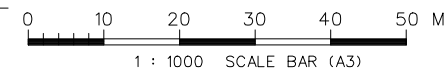
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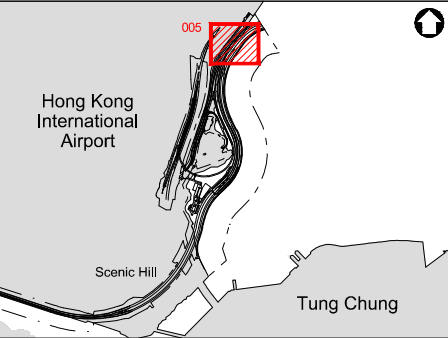
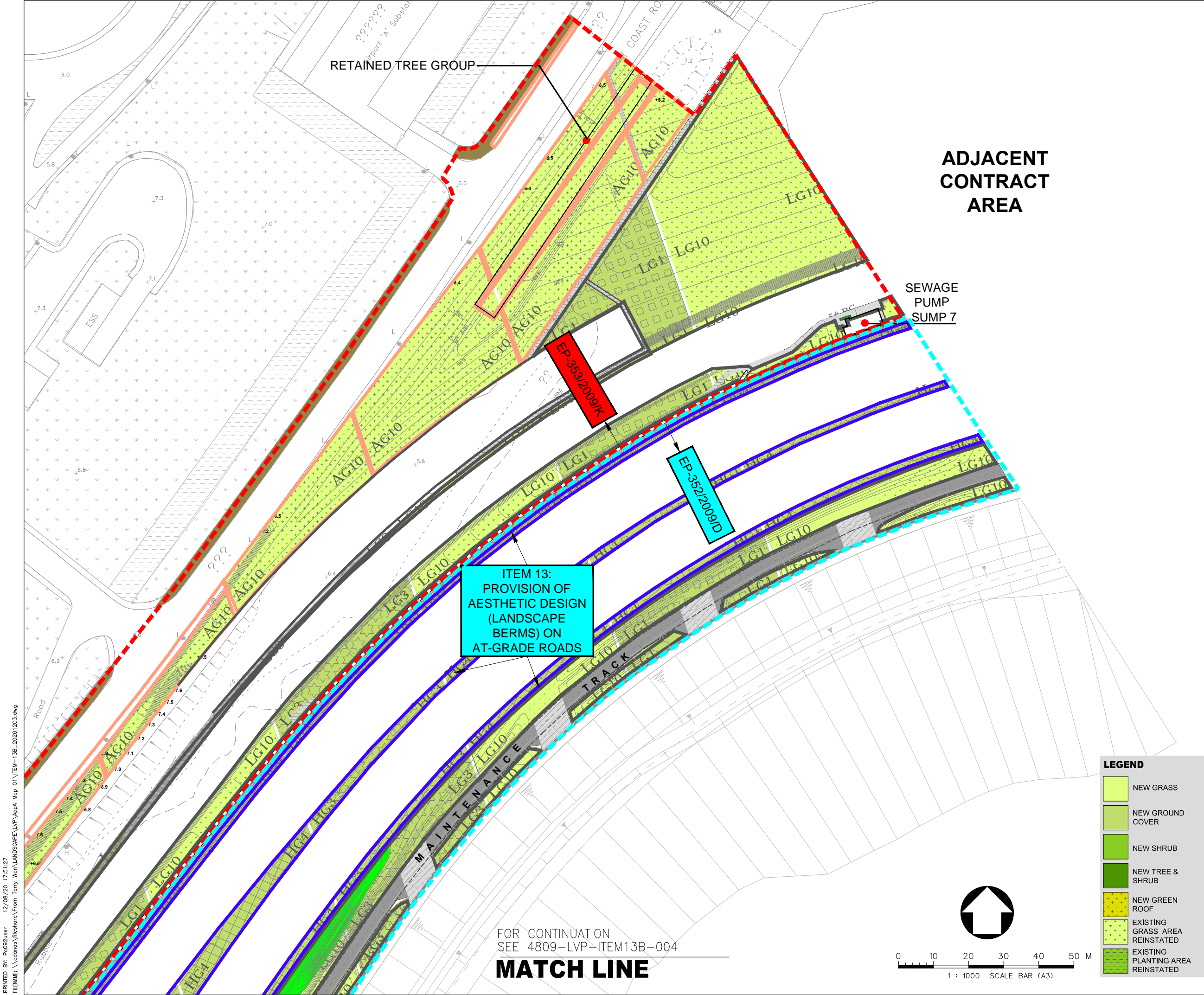
LEGEND

- NEW GRASS
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- NEW GREEN ROOF
- EXISTING GRASS AREA REINSTATED
- EXISTING PLANTING AREA REINSTATED

MATCH LINE



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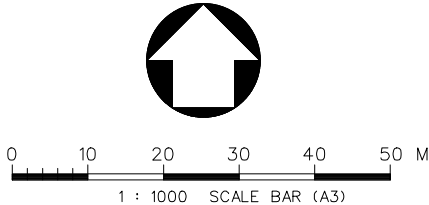


- LEGEND :**
- EP-353/2009/K BOUNDARY
 - EP-352/2009/D BOUNDARY
 - FEP-01/352/2009/D BOUNDARY
 - EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
 - HIGHWAY DEPARTMENT
 - HONG KONG AIRPORT AUTHORITY (AAHK)
 - LANDSD
 - LCSD
 - TUNNEL CONTROL AUTHORITY (TD/MOm)

A	LVP SUBMISSION		TW	31OCT19
Rev	Description		By	Date
Supervising Officer				
<div>ARUP</div> <div>奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited</div>				
Contractor				
<div> 中國建築工程(香港)有限公司</div> <div>CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.</div>				
Contractor's Designer				
<div>ATKINS</div> <div>阿特金斯</div>				
Contract No. and Title:				
Contract No. HY/2011/03				
Hong Kong-Zhuhai-Macao Bridge				
Hong Kong Link Road -				
Section Between Scenic Hill and				
Hong Kong Boundary Crossing Facilities				
Drawing title				
DESIGN PHASE MITIGATION MEASURES PLANS (VMM) ITEM 13: PROVISION OF AESTHETIC DESIGN (LANDSCAPE BERMS) (SHEET 5 OF 5)				
Drawing no.			Rev.	
4809-LVP-ITEM13B-005			A	
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Approved	LAM			
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FOR CONTINUATION
SEE 4809-LVP-ITEM13B-004
MATCH LINE



- LEGEND**
- NEW GRASS
 - NEW GROUND COVER
 - NEW SHRUB
 - NEW TREE & SHRUB
 - NEW GREEN ROOF
 - EXISTING GRASS AREA REINSTATED
 - EXISTING PLANTING AREA REINSTATED

**Item 13 - Providing aesthetic design on at-grade roads
(Landscape berm) to beautify the HKLR alignment**

(Refer to Section 4.3 of LVP)



Rev	Description	By	Date

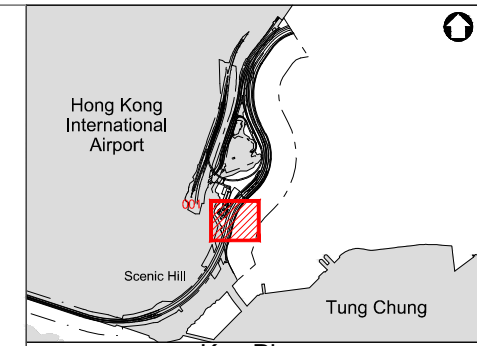
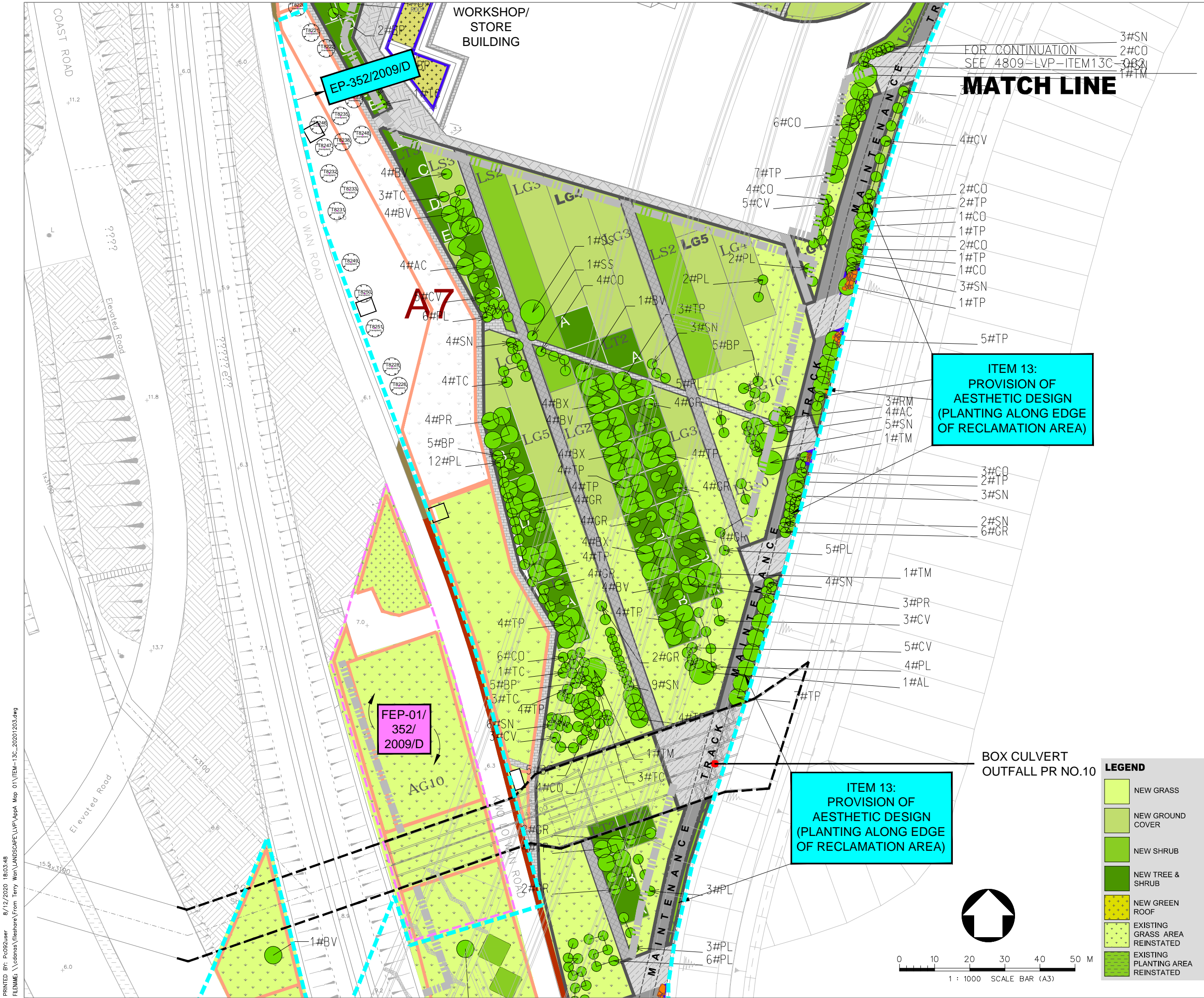
Consultant			
ARUP		奧雅納工程顧問	
Ove Arup & Partners Hong Kong Limited			

Contract No. and Title:			
Contract No. HY/2011/03			
Hong Kong-Zhuhai-Macao Bridge			
Hong Kong Link Road -			
Section Between Scenic Hill and			
Hong Kong Boundary Crossing Facilities			

Drawing title			
Design Phase Mitigation Measures Plans (VMM)			
Provision of Aesthetic Design (Landscape Berms)			

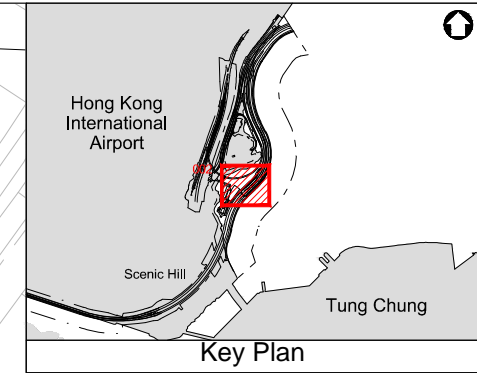
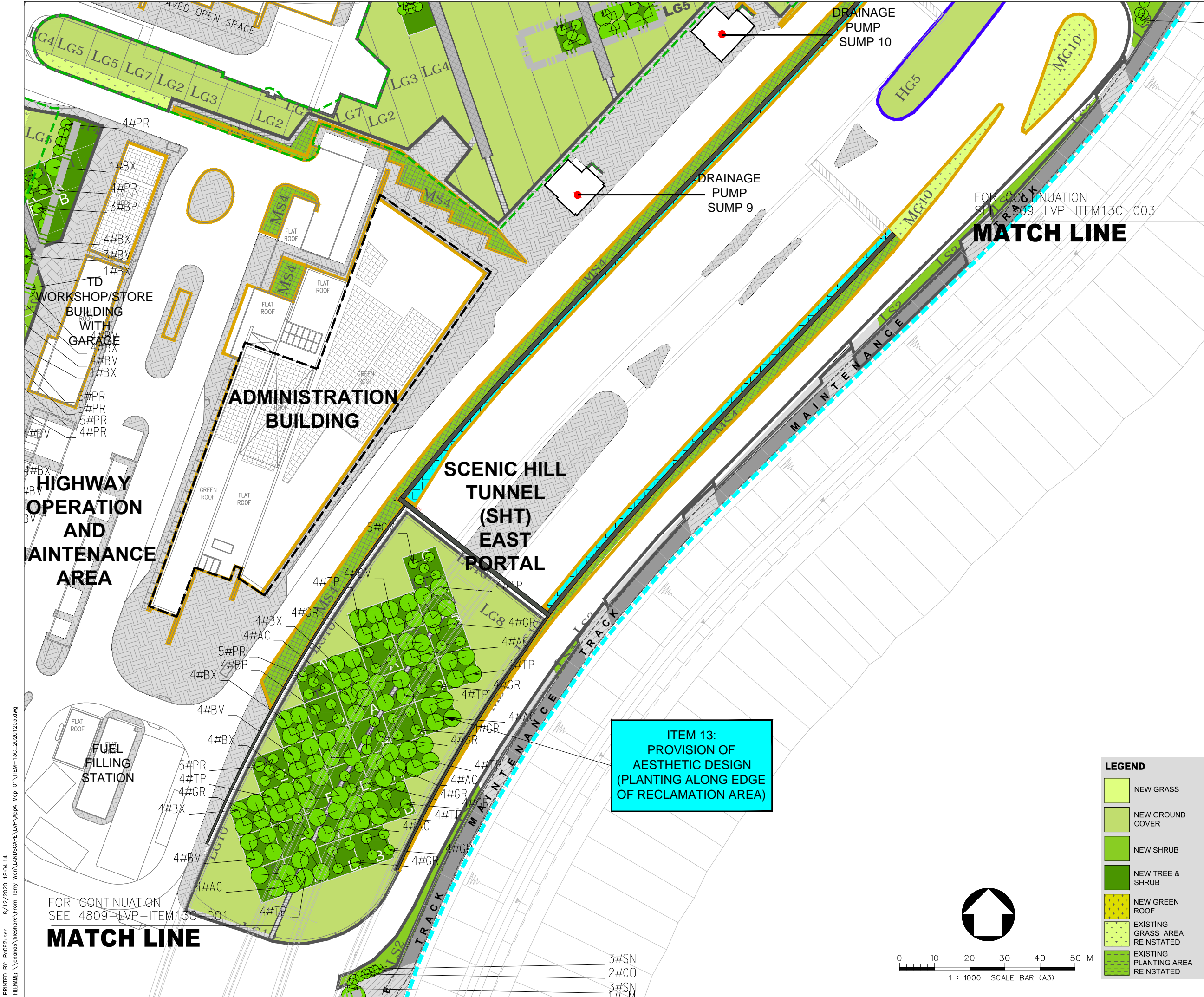
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Drawn	Date	Checked	Approved
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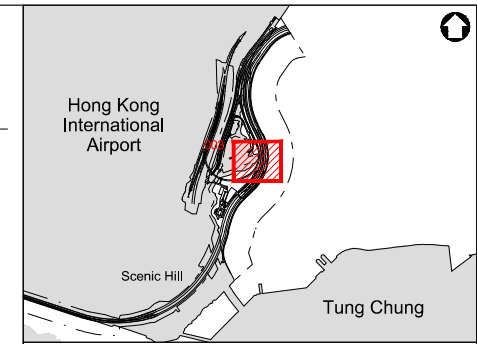
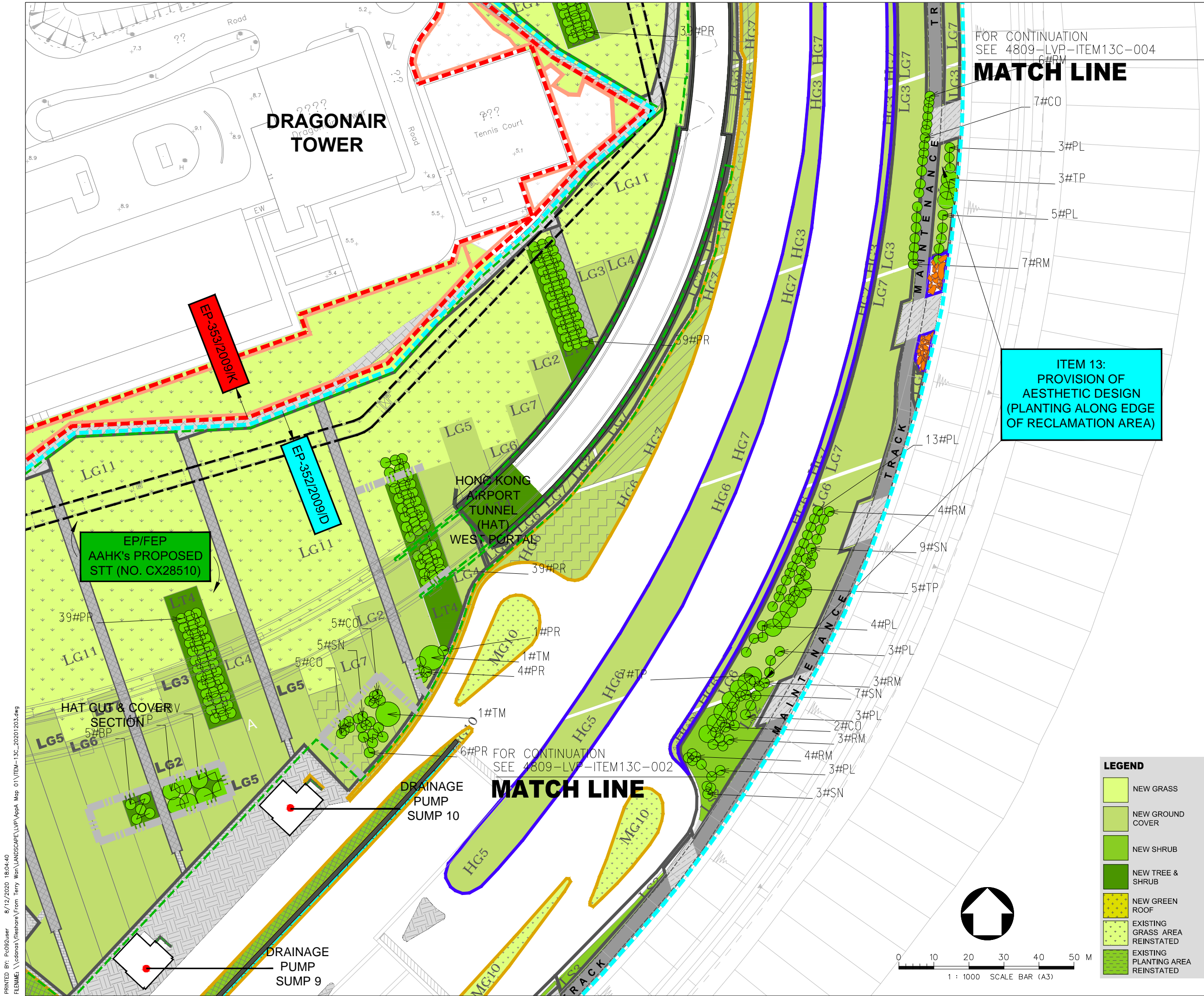
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- EP-353/2009/K BOUNDARY
 - EP-352/2009/D BOUNDARY
 - FEP-01/352/2009/D BOUNDARY
 - EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
 - HIGHWAY DEPARTMENT
 - HONG KONG AIRPORT AUTHORITY (AAHK)
 - LANDSD
 - LCSD
 - TUNNEL CONTROL AUTHORITY (TD/MOm)

A		LVP SUBMISSION	TW	31OCT19
Rev	Description	By	Date	
Supervising Officer				
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited				
Contractor				
中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.				
Contractor's Designer				
ATKINS 阿特金斯				
Contract No. and Title:				
Contract No. HY/2011/03				
Hong Kong-Zhuhai-Macao Bridge				
Hong Kong Link Road -				
Section Between Scenic Hill and				
Hong Kong Boundary Crossing Facilities				
Drawing title				
DESIGN PHASE MITIGATION MEASURES PLANS (VMM)				
ITEM 13:				
PROVISION OF AESTHETIC DESIGN (PLANTING ALONG EDGE OF RECLAMATION AREA)				
(SHEET 1 OF 5)				
Drawing no.		4809-LVP-ITEM13C-001		Rev. A
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- LEGEND :**
- EP-353/2009/K BOUNDARY
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 - FEP-01/352/2009/D BOUNDARY
 - EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
 - HIGHWAY DEPARTMENT
 - HONG KONG AIRPORT AUTHORITY (AAHK)
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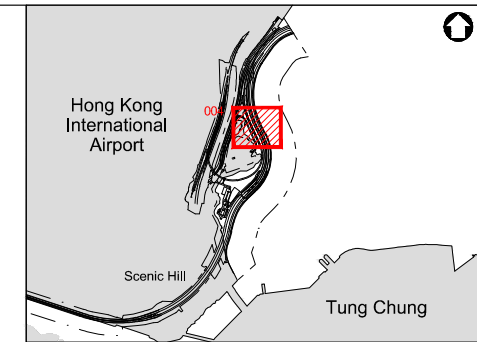
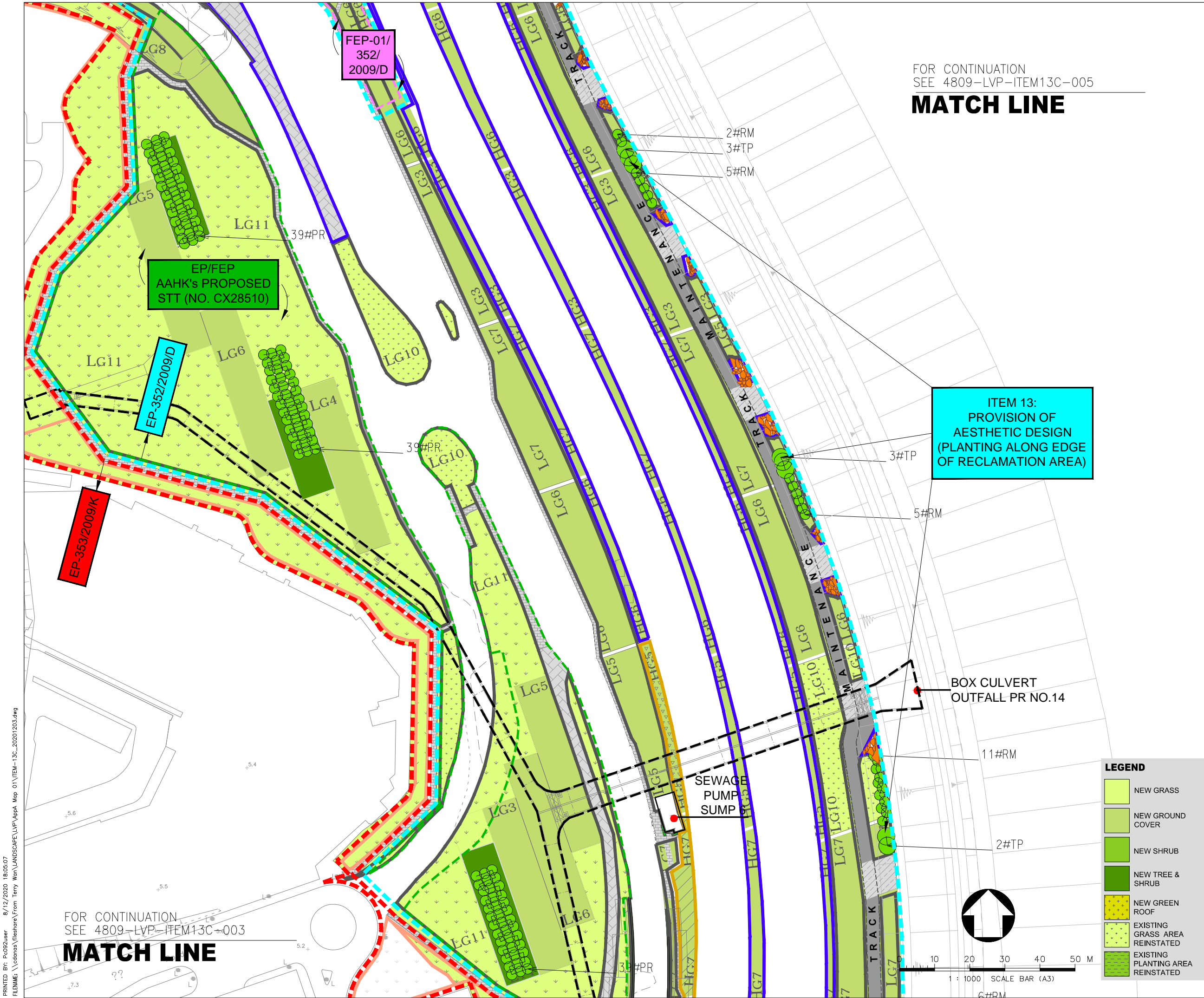
A	LVP SUBMISSION	TW	31OCT19
Rev	Description	By	Date
Supervising Officer			
<div>ARUP</div> <div>奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited</div>			
Contractor			
<div></div> <div>中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.</div>			
Contractor's Designer			
<div>ATKINS</div> <div>阿特金斯</div>			
Contract No. and Title:			
Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities			
Drawing title			
DESIGN PHASE MITIGATION MEASURES PLANS (VMM) ITEM 13: PROVISION OF AESTHETIC DESIGN (PLANTING ALONG EDGE OF RECLAMATION AREA) (SHEET 2 OF 5)			
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Approved	LAM		
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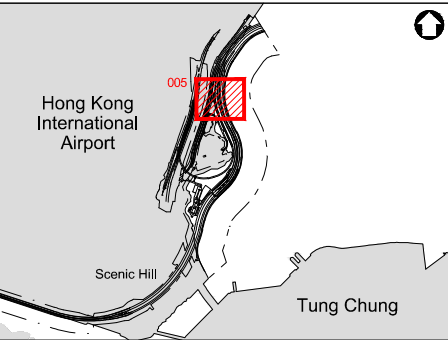
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	HIGHWAY DEPARTMENT
	HONG KONG AIRPORT AUTHORITY (AAHK)
	LANDSD
	LCSD
	TUNNEL CONTROL AUTHORITY (TD/MOm)

A	LVP SUBMISSION	TW	31OCT19
Rev	Description	By	Date
Supervising Officer			
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited			
Contractor			
中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.			
Contractor's Designer			
ATKINS 阿特金斯			
Contract No. and Title:			
Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities			
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DESIGN PHASE MITIGATION MEASURES PLANS (VMM) ITEM 13: PROVISION OF AESTHETIC DESIGN (PLANTING ALONG EDGE OF RECLAMATION AREA) (SHEET 3 OF 5)			
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LEGEND :	
	EP-353/2009/K BOUNDARY
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	LANDSD
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	TUNNEL CONTROL AUTHORITY (TD/MOm)

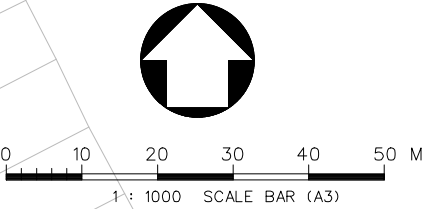
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Supervising Officer			
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited			
Contractor			
中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.			
Contractor's Designer			
ATKINS 阿特金斯			
Contract No. and Title:			
Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities			
Drawing title			
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- LEGEND :**
- EP-353/2009/K BOUNDARY
 - EP-352/2009/D BOUNDARY
 - FEP-01/352/2009/D BOUNDARY
 - EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
 - HIGHWAY DEPARTMENT
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A		LVP SUBMISSION		TW	31OCT19
Rev	Description	By	Date		
Supervising Officer					
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited					
Contractor					
CSCEC 中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.					
Contractor's Designer					
ATKINS 阿特金斯					
Contract No. and Title:					
Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities					
Drawing title					
DESIGN PHASE MITIGATION MEASURES PLANS (VMM) ITEM 13: PROVISION OF AESTHETIC DESIGN (PLANTING ALONG EDGE OF RECLAMATION AREA) (SHEET 5 OF 5)					
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Approved LAM					
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- LEGEND**
- NEW GRASS
 - NEW GROUND COVER
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 - NEW GREEN ROOF
 - EXISTING GRASS AREA REINSTATED
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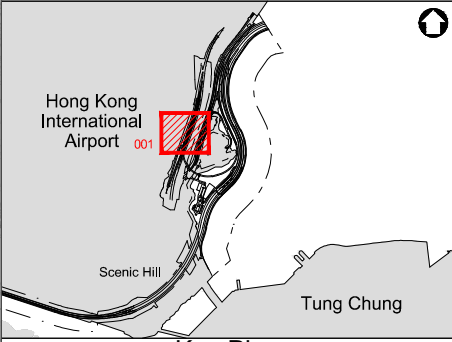
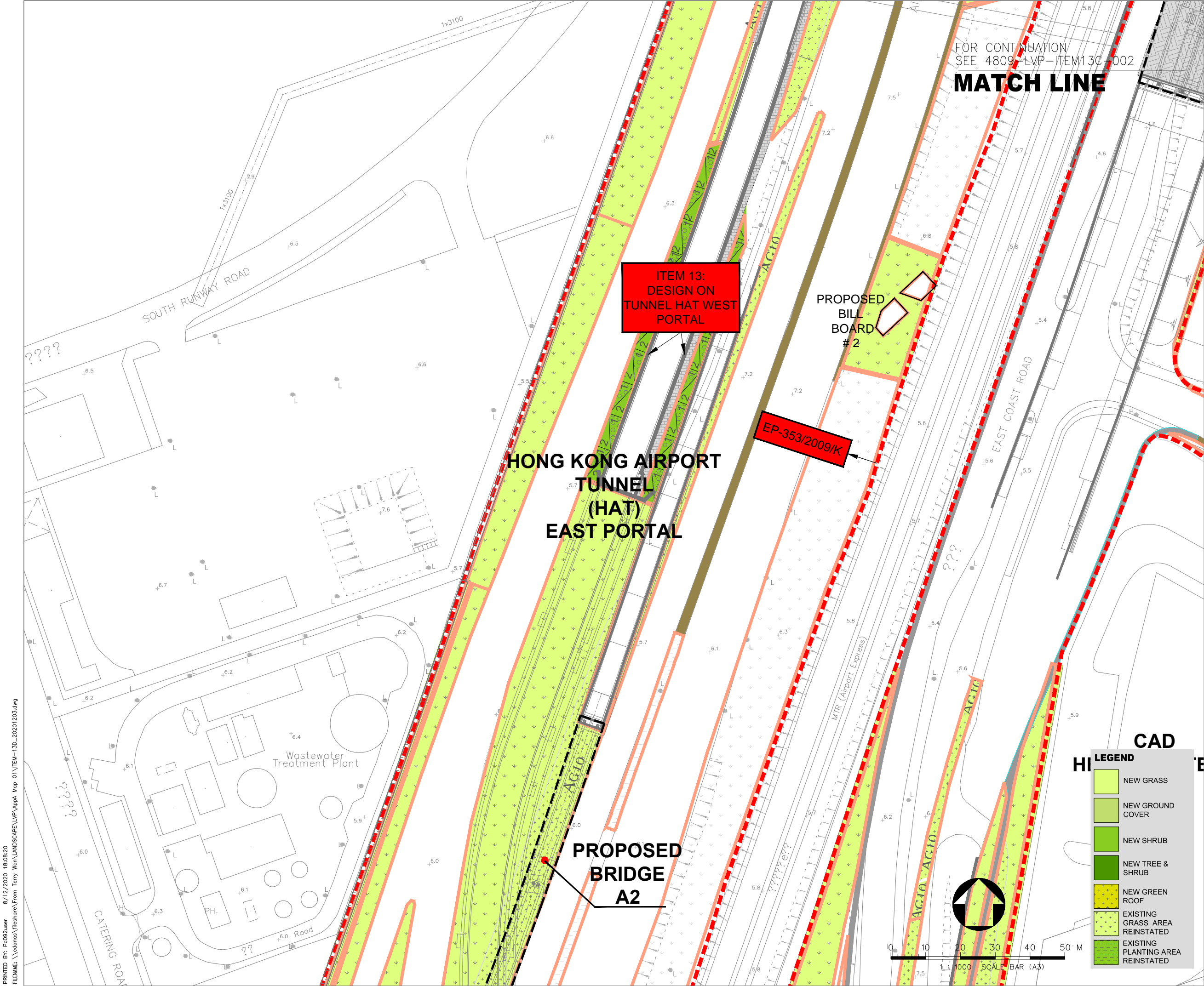




Item 13 - Providing aesthetic design on at-grade roads (Planting along edge of reclamation area) to beautify the HKLR alignment
(Refer to Section 4.3 of LVP)

Rev	Description	By	Date
Consultant			
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited			
Contract No. and Title:			
Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities			
Drawing title			
Design Phase Mitigation Measures Plans (VMM) Provision of Aesthetic Design (Planting along edge of Reclamation area)			
Drawing no.		Rev.	
Item 13C			
Drawn	Date	Checked	Approved
Scale	Status		

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LEGEND :

	EP-353/2009/K BOUNDARY
	EP-352/2009/D BOUNDARY
	FEP-01/352/2009/D BOUNDARY
	EP/FEP AAHK's PROPOSED STT (NO. CX2851) BOUNDARY
	HIGHWAY DEPARTMENT
	HONG KONG AIRPORT AUTHORITY (AAHK)
	LANDSD
	LCSD
	TUNNEL CONTROL AUTHORITY (TD/MOm)

A		LVP SUBMISSION	TW	31OCT19
Rev	Description	By	Date	
Supervising Officer				
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited				
Contractor				
CSCEC 中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.				
Contractor's Designer				
ATKINS 阿特金斯				
Contract No. and Title:				
Contract No. HY/2011/03				
Hong Kong-Zhuhai-Macao Bridge				
Hong Kong Link Road -				
Section Between Scenic Hill and				
Hong Kong Boundary Crossing Facilities				
Drawing title				
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ITEM 13:				
PROVISION OF AESTHETIC DESIGN ON TUNNEL HAT WEST PORTAL				
Drawing no.		4809-LVP-ITEM13D-001		Rev. A
Drawn	KIT	Date	31/10/2019	Checked WK
Scale	A1	1:500	Status	Approved LAM
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Item 13 - Providing aesthetic design for Tunnel HAT West Portals to beautify the HKLR alignment
(Refer to Section 4.3 of LVP)

Rev	Description	By	Date

Consultant			
ARUP		奧雅納工程顧問	
Ove Arup & Partners Hong Kong Limited			

Contract No. and Title:			
Contract No. HY/2011/03			
Hong Kong-Zhuhai-Macao Bridge			
Hong Kong Link Road -			
Section Between Scenic Hill and			
Hong Kong Boundary Crossing Facilities			

Drawing title			
Design Phase Mitigation Measures Plans (VMM)			
Provision of Aesthetic Design on Tunnel HAT West Portal			

Drawing no.		Rev.	
Item 13D			
Drawn	Date	Checked	Approved
Scale	Status		

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HIGHWAYS DEPARTMENT

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