

Hong Kong Housing Authority  
**Agreement No. CB20120293**  
**Planning and Engineering Study**  
**for the Public Housing Site and**  
**Yuen Long Industrial Estate**  
**Extension at Wang Chau**

Final Technical Report No.3G (TR-3G) Preferred Option and Technical Assessment – Environmental Impact Assessment Report

REP-023-01

Final | May 2014

## Figures

**IMPORTANT – CONFIDENTIALITY**

This project and study shall be kept confidential and any information contained in and/or related to the project/study shall not be disclosed to any person not involved in the project/study.

This report takes into account the particular instructions and requirements of our client.

It is not intended for and should not be relied upon by any third party and no responsibility is undertaken to any third party.

Job number 226464

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Hong Kong  
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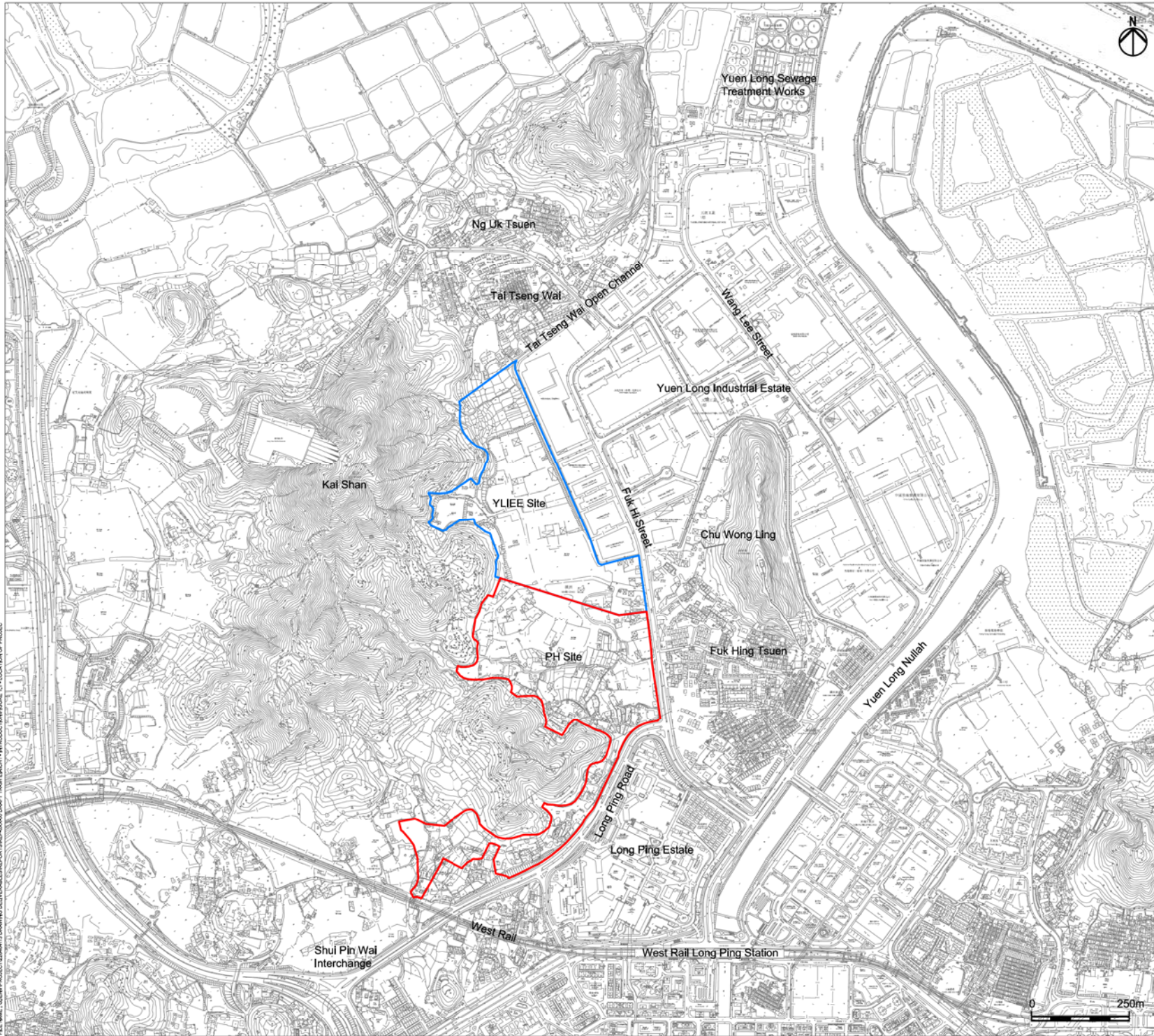
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**Legend**

- Public Housing Site (PH Site)
- Yuen Long Industrial Estate Extension (YLIEE Site)



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**Drawing title**  
 Location of Project Site

Drawing no.	Figure 1.1			Rev.	A
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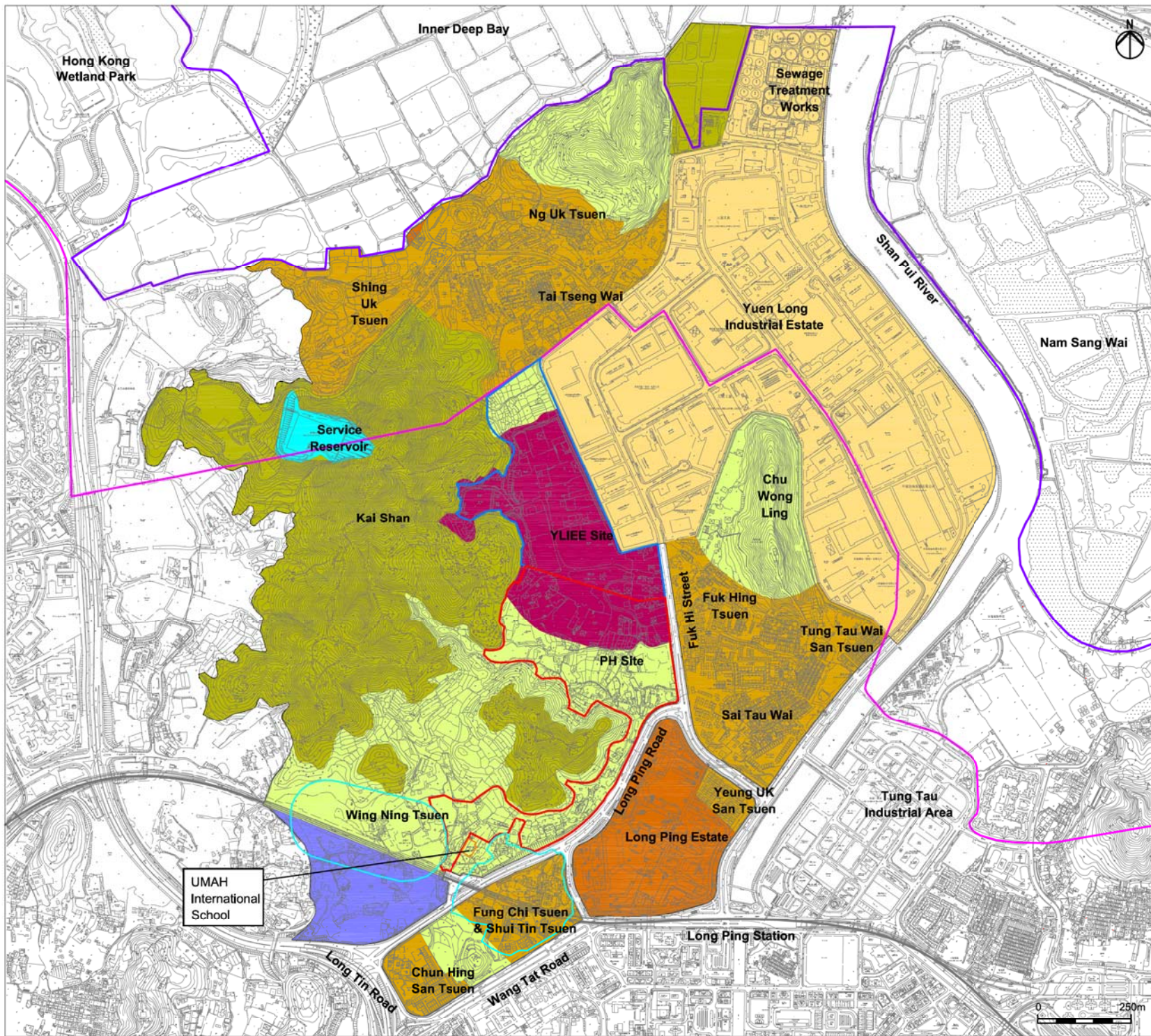
USER: PROJ00001141 TIME: 07 NOV 2013 - 09:09M  
 FILE NAME: C:\G:\PROJECT\20120293\DRAWING\02\LEVEL\RES/SPOTS/RES/000000.DWG PLOT: 11 - INTRODUCTION/FIGURE 1.1 - LOCATION OF PROJECT











- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Wetland Conservation Area (WCA)
  - Wetland Buffer Area (WBA)
  - Conservation Area (CA)
  - Green Belt (GB)
  - Government, Institution or Community (G/IC)
  - Residential (Group A) (R(A))
  - Village Type Development (V)
  - Comprehensive Development Area (CDA)
  - Other Specified Uses (OU)
  - Open Storage (OS)
  - UMAH International School
  - Village Environ

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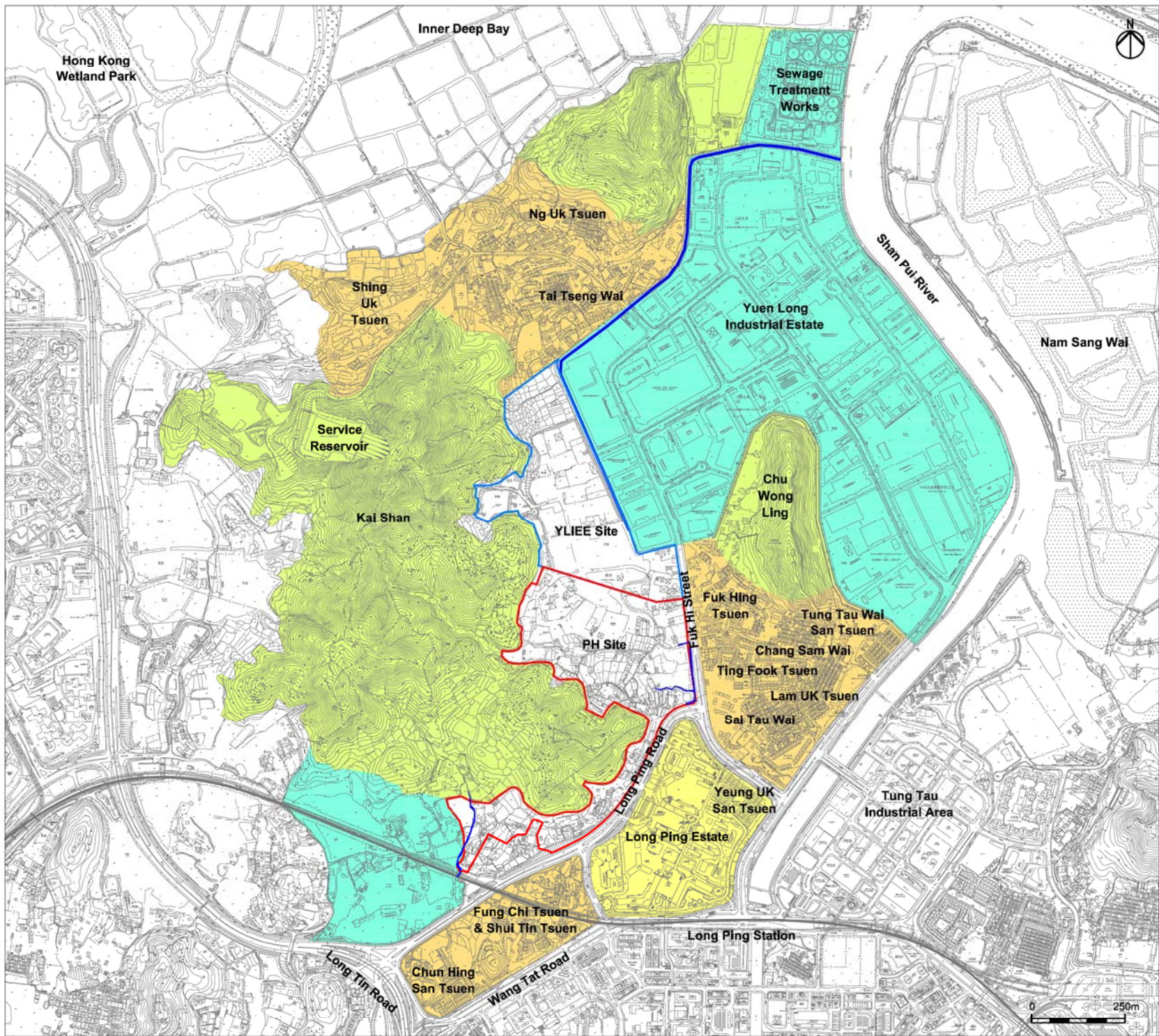
Drawing title  
 Landuse Zoning in the Vicinity and Location of UMAH International School

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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - High Rise Residential Development
  - Villages and Low-Rise Residential Development
  - Natural Landscape
  - Industrial Uses
  - Nullah
  - MTR Railway Track (Elevated)

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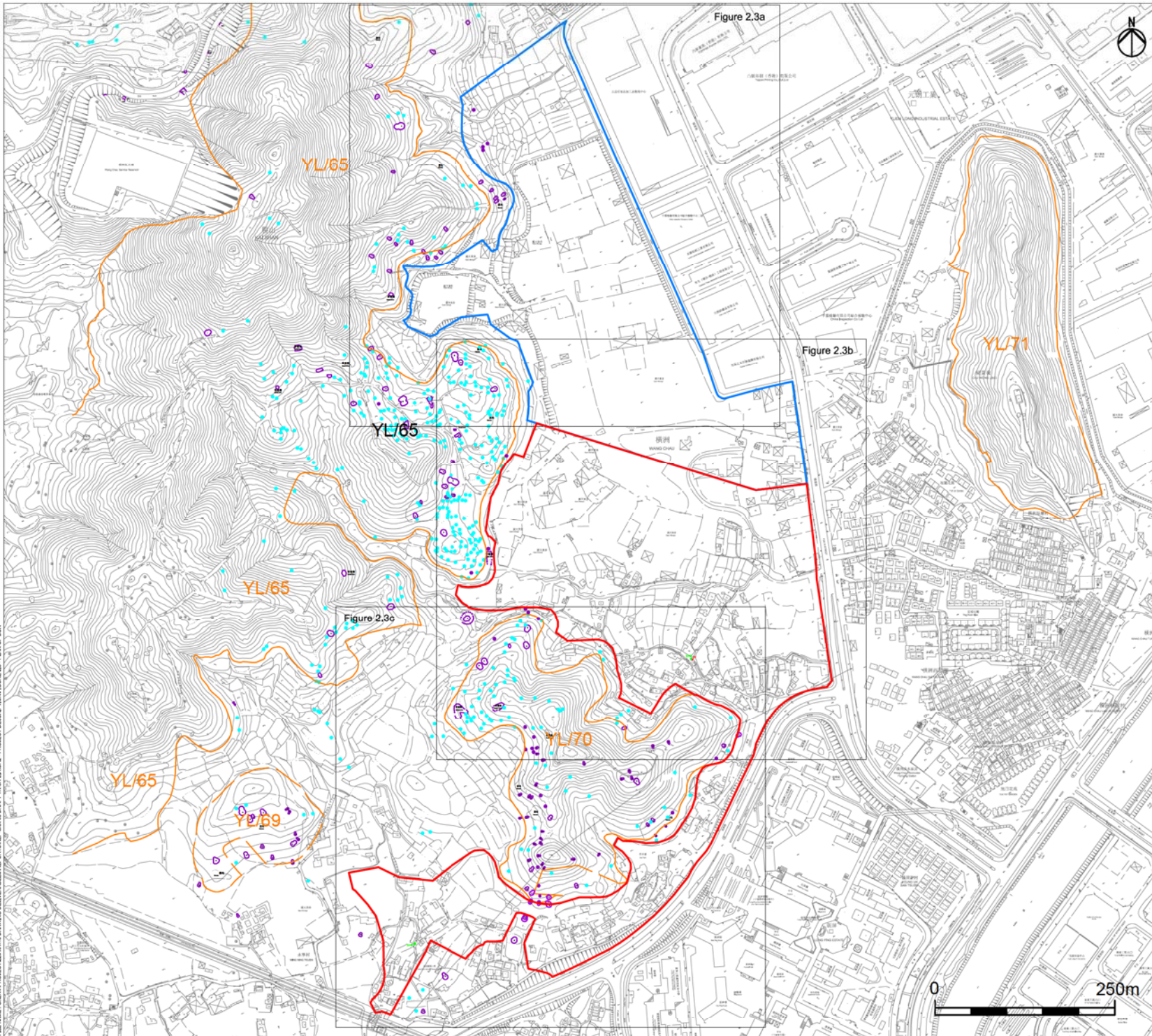
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Drawing title  
 Existing Land Use and Developments in the Vicinity

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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Burial Ground Boundary
  - Grave
  - Urn / Kam Tap
  - SHR
  - Well
  - Paved Area

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Drawing title  
Plan of Burial Ground, Grave, Urns / Kam Taps and Shrines

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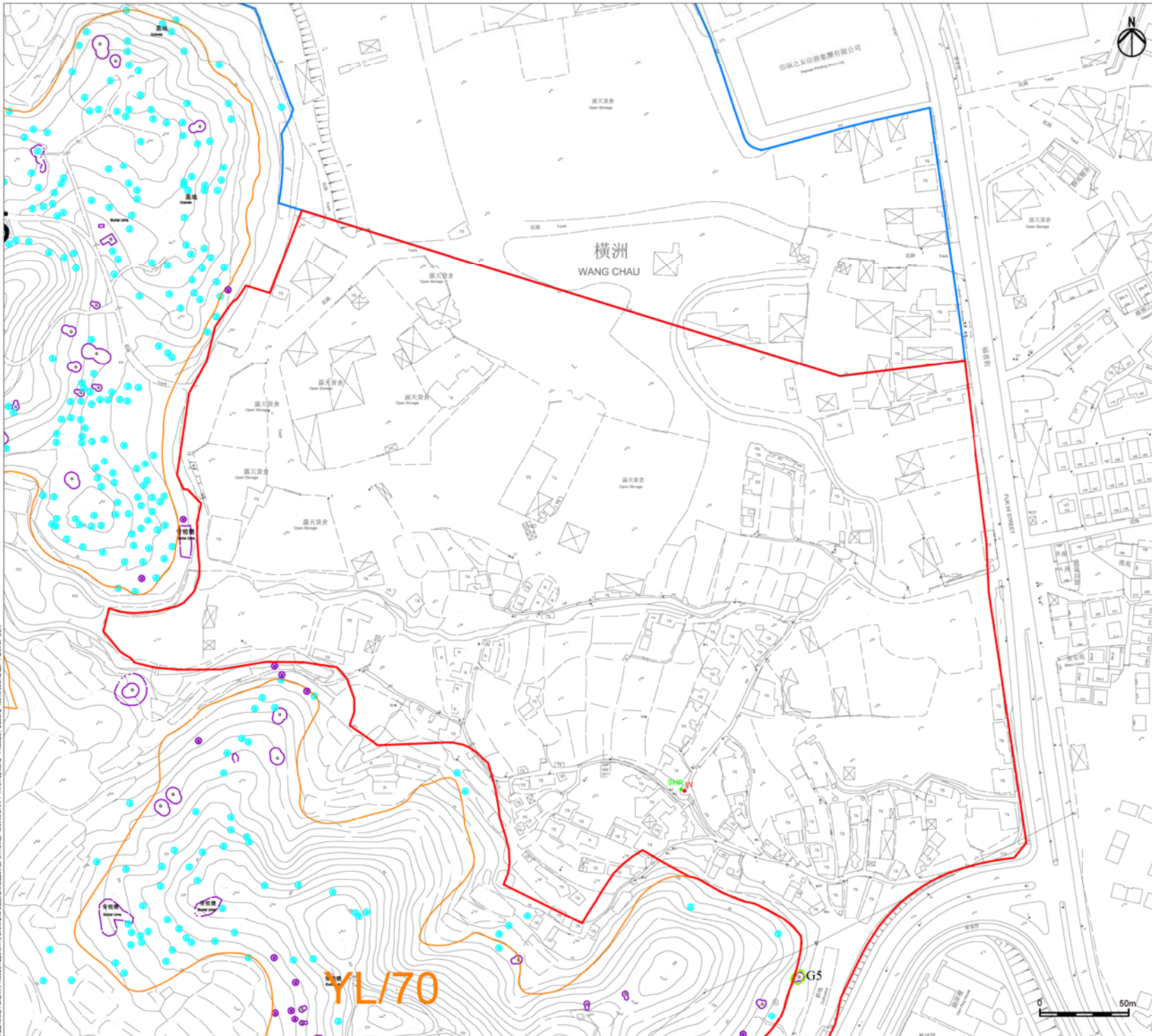


USER: HK040210 TIME: 13 NOV 2013 11:27AM  
 FILE NAME: G:\ENVIRONMENTAL REPORTS\BIDDING\DRAWING\BIDDING\PROJECT DESCRIPTION\FIGURE 2.3 - PLAN OF BUR









- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Burial Ground Boundary
  - Grave
  - Urn / Kam Tap
  - SHR
  - Well
  - Paved Area



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Drawing title  
Plan of Burial Ground, Grave, Urns / Kam Taps and Shrines

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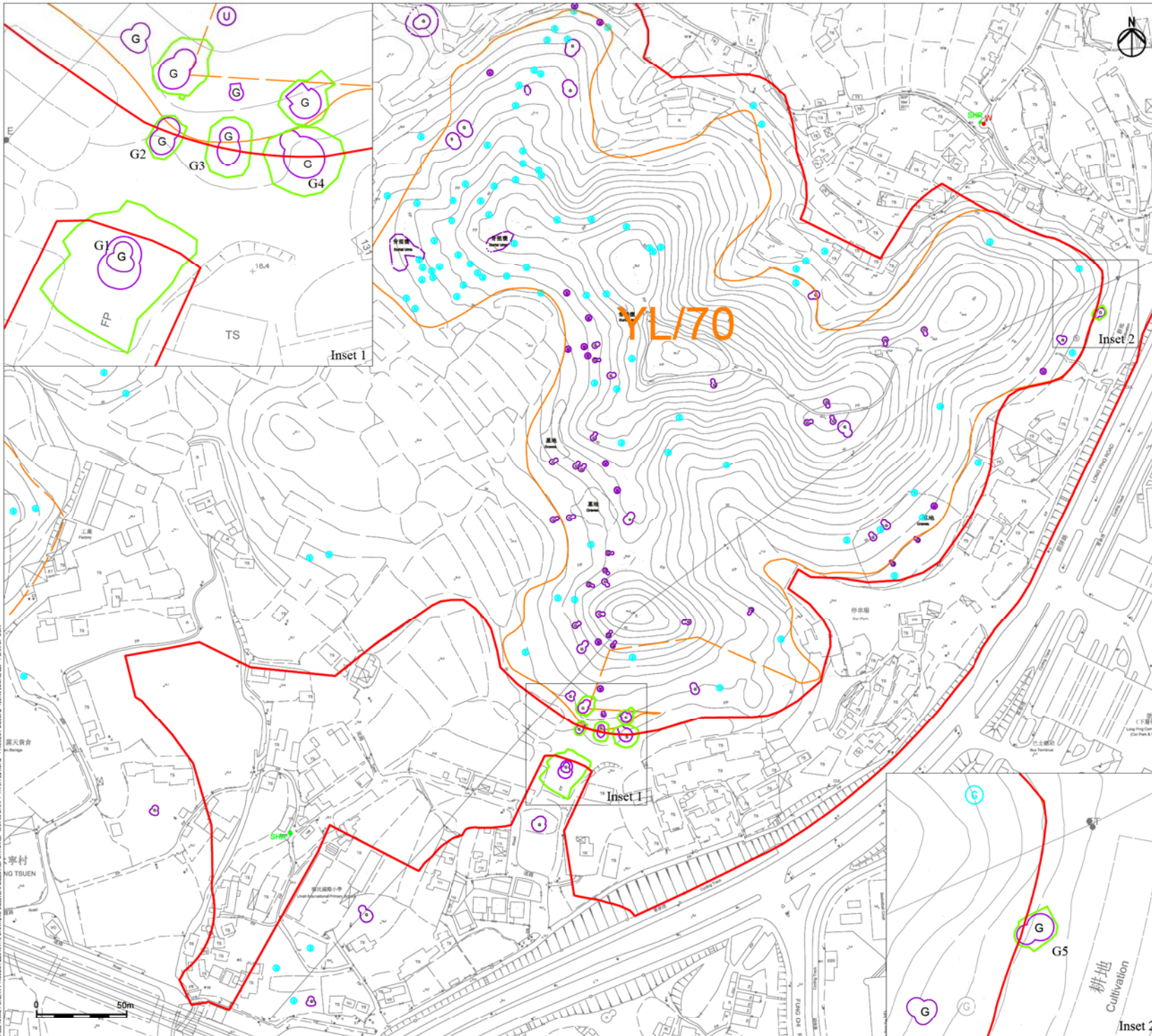
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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Burial Ground Boundary
  - Grave
  - Urn / Kam Tap
  - SHR
  - Well
  - Paved Area

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Drawing title  
 Plan of Burial Ground, Grave, Urns / Kam Taps and Shrines

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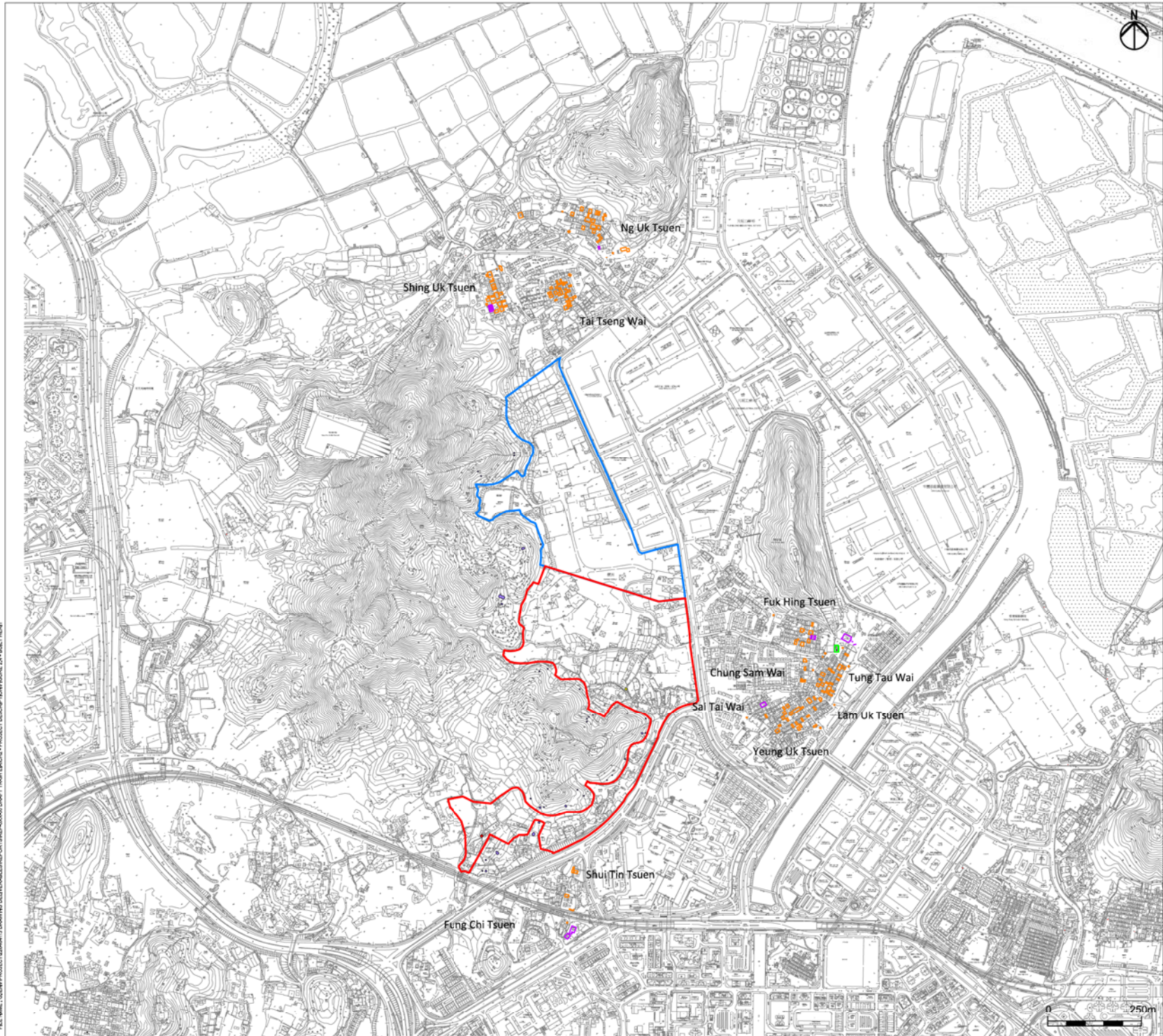
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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Declared Monuments (DM)
  - Graded Historic Buildings (GB)
  - Ungraded Built Heritage Resources (HB)
  - Grave (G)
  - Shrine (S)
  - Well and Shrine (W)

Remark : See Figures 13.4 to 13.4e for details

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 Built Heritage Resources

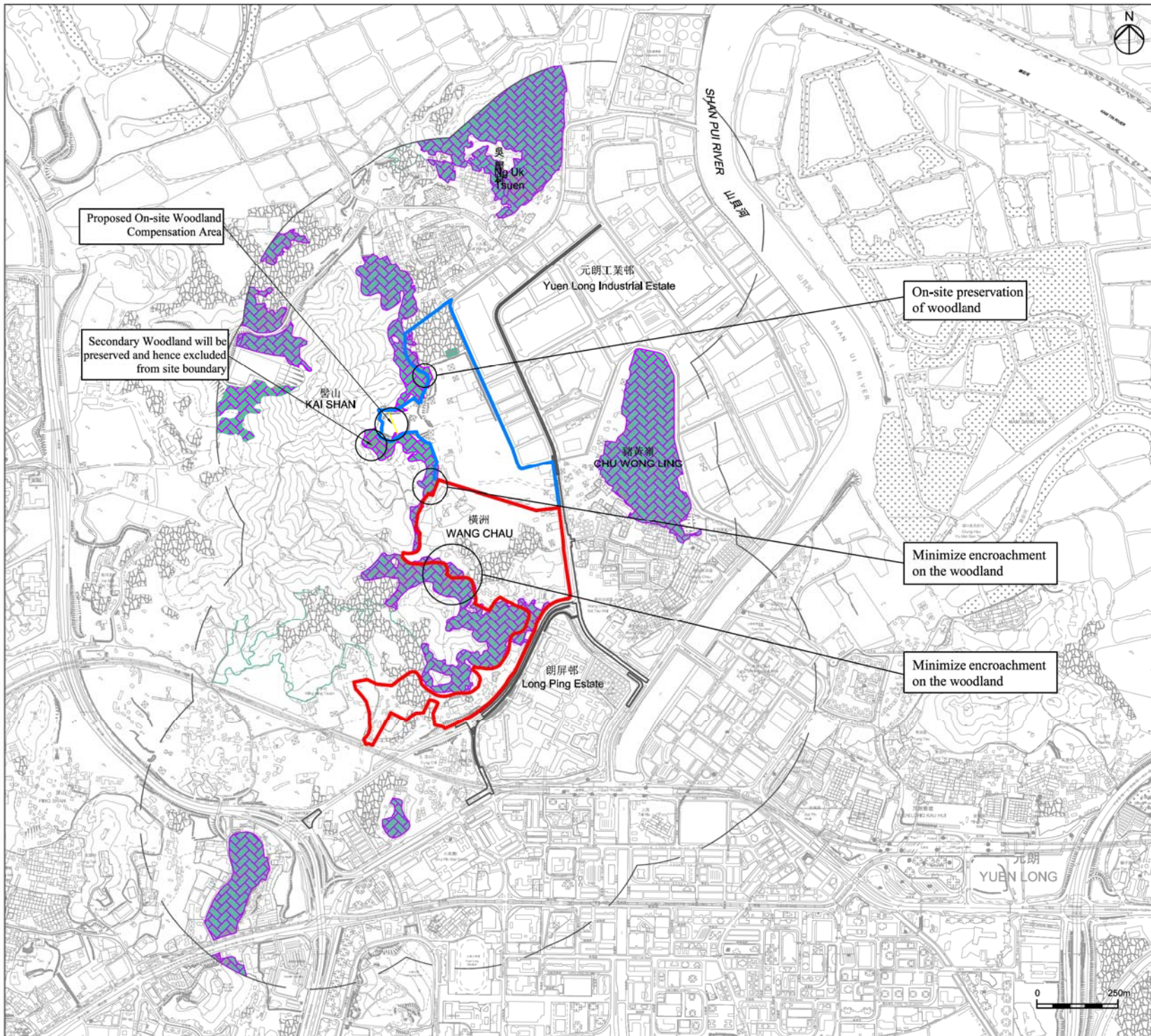
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 FILE NAME: C:\G:\PROJECT\2014\11\DRAWING\COLL\BUILTHERITRESOURCES\00000.DWG PLOT: 1/10/13 PROJECT: DESCRIPTION: FIGURE 2.4 - BUILT HERIT







- Legend
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Associated Works Boundary
  - Secondary Woodland

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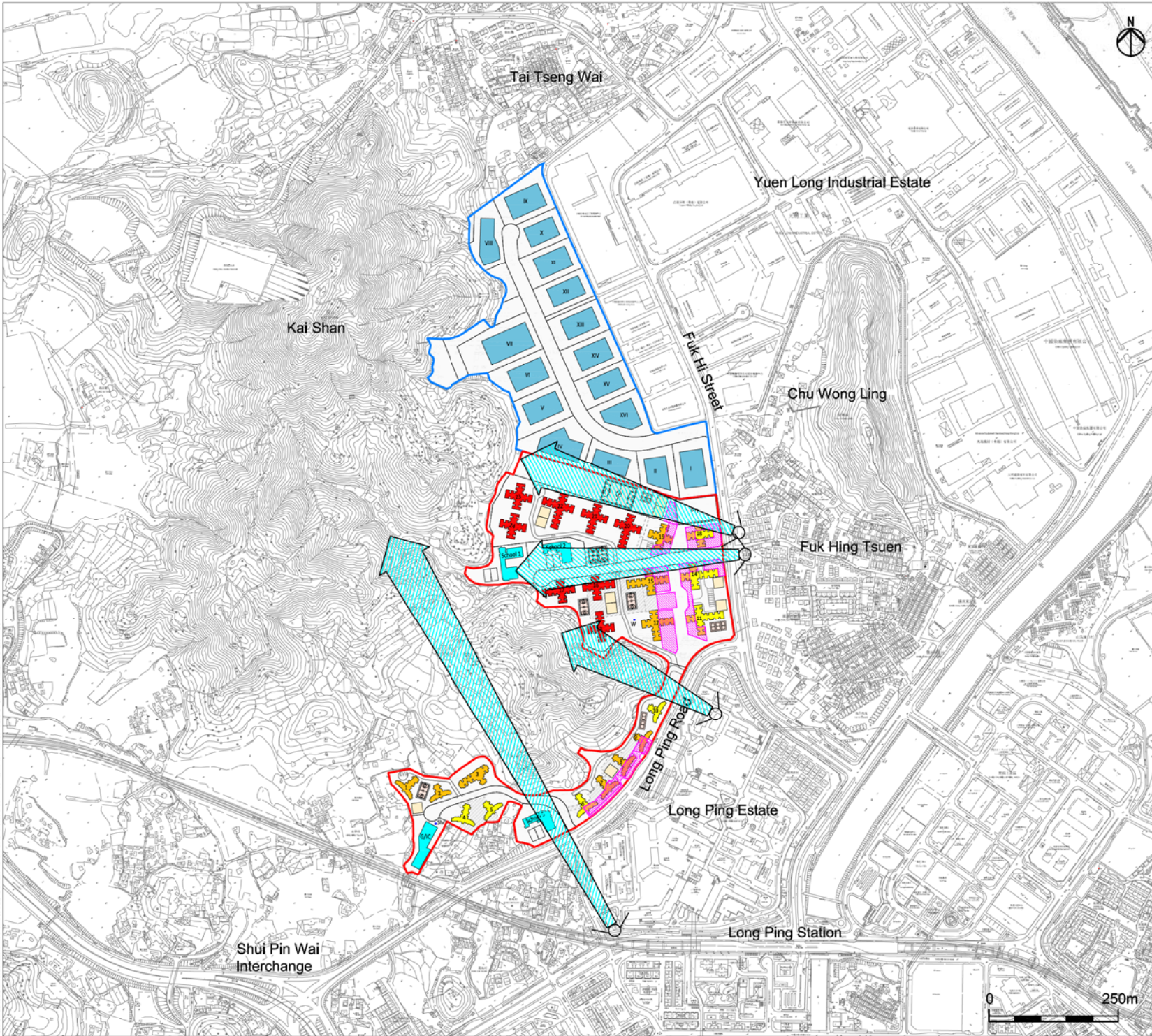
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Drawing title  
 Extent of Secondary Woodland

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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - YLIEE Buildings Footprints (8 Storeys)
  - PH Residential Buildings (41 Storeys)
  - PH Residential Buildings (36 Storeys)
  - PH Residential Buildings (31 Storeys)
  - GIC & Schools
  - Commercial Activities
  - Carpark
  - Playground
  - View Corridor

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Drawing title  
**Development Layout**

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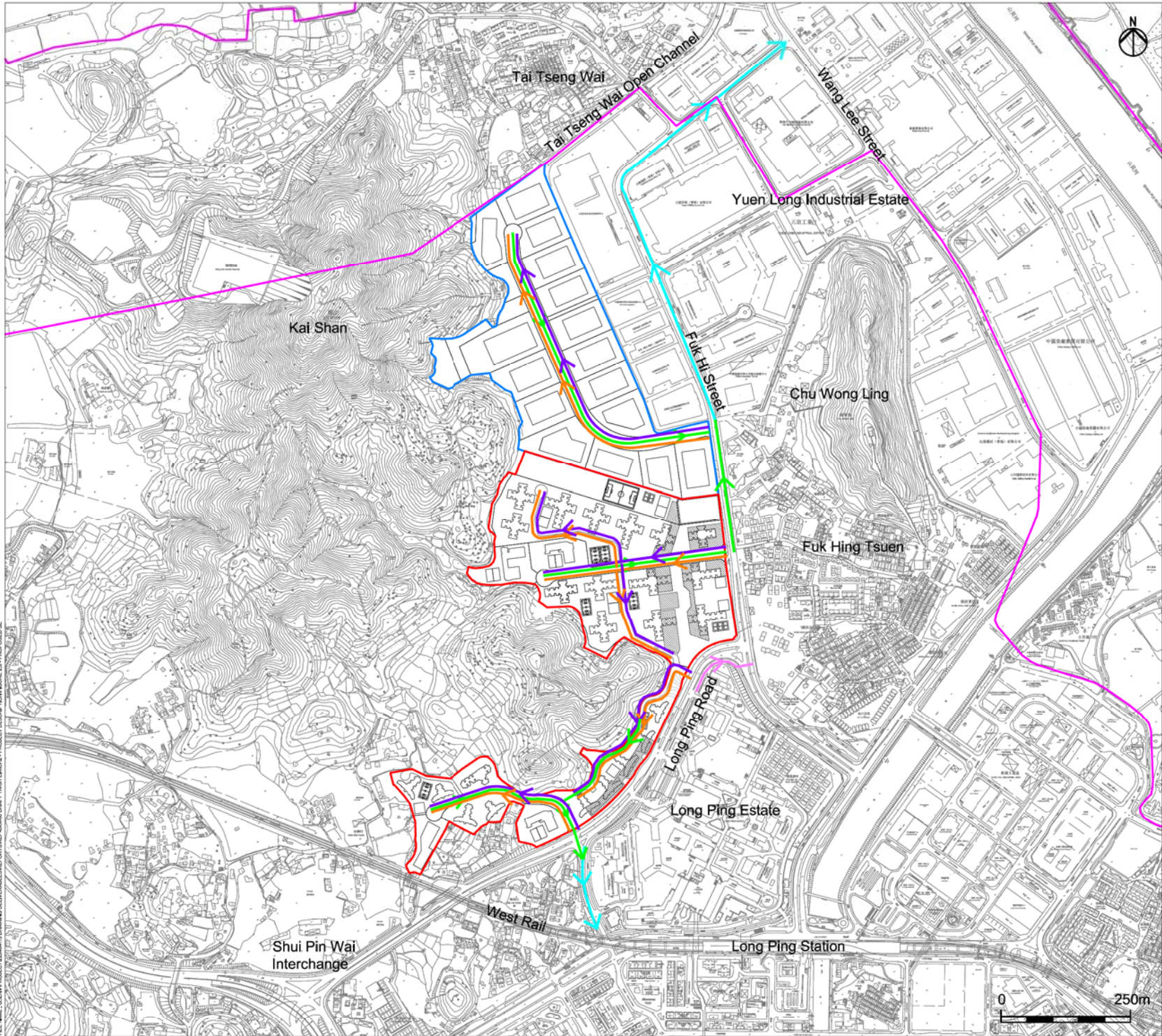
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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Boundary of Wetland Buffer Area
  - Existing Sewerage System to be upgraded (SW1)
  - Proposed New Sewerage System (SW2)
  - Proposed Freshwater Main Connection
  - Existing Freshwater Main to be Upgraded
  - Proposed Flushing Water Main Connection

NB: Infrastructure works within Project Boundary would be constructed together with the site formation works.

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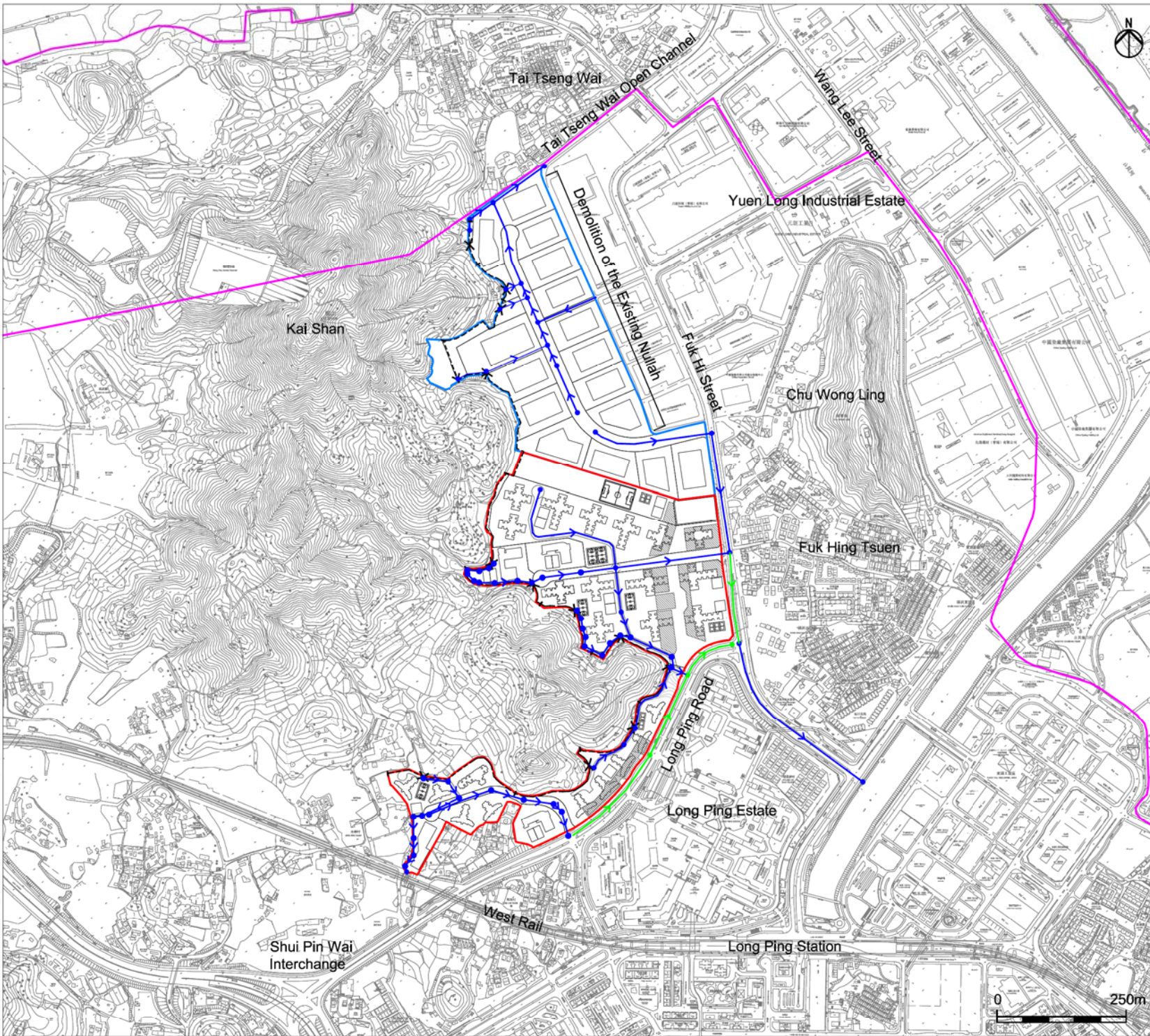
Drawing title  
 Proposed Sewerage, Flushing Water and Water Supply Improvement Works

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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Existing Stormwater Drainage System to be Upgraded (DW1)
  - Proposed New Stormwater Drainage System (DW2)
  - U-Channel
  - Boundary of Wetland Buffer Area

NB: Infrastructure works within Project Boundary would be constructed together with the site formation works.

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 Proposed Drainage Improvement Works

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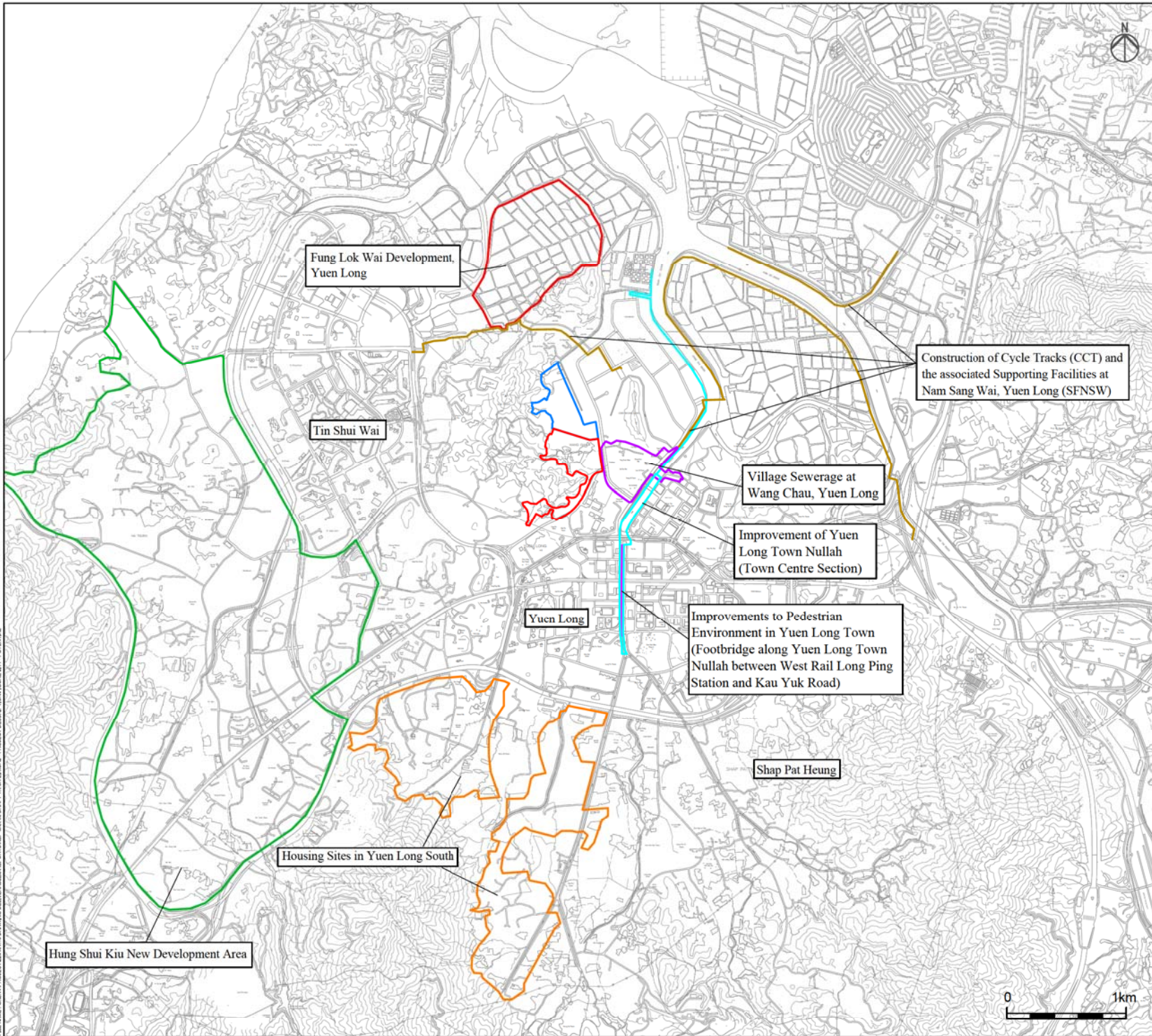
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**Legend**

- Public Housing Site (PH Site)
- Yuen Long Industrial Estate Extension (YLIEE Site)

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Drawing title  
 Potential Concurrent Projects

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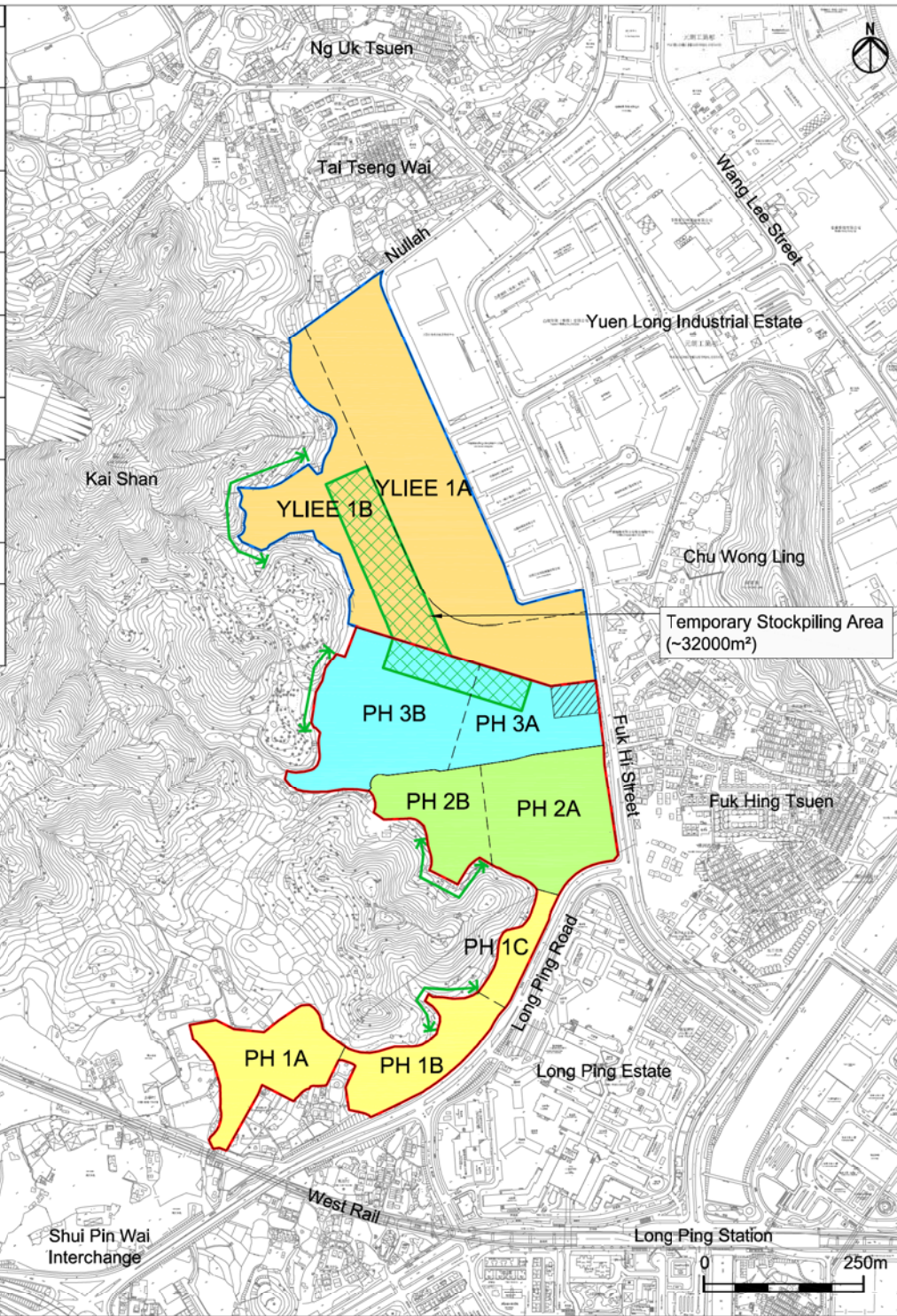
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Work Site	Description	Key Construction Elements
PH 1A	PH Site, Phase 1, Work Site A	- Site formation / Access Road / Retaining Structure - Superstructure for housing blocks and GIC building - Utilities and landscaping works installation
PH 1B	PH Site, Phase 1, Work Site B	- Site formation / Access Road / Retaining Structure - Slope work along northeastern boundary - Superstructure for housing blocks and retails - Utilities and landscaping works installation
PH 1C	PH Site, Phase 1, Work Site C	- Site formation / Access Road / Retaining Structure - Slope work along western boundary - Superstructure for housing blocks and retails - Utilities and landscaping works installation
PH 2A	PH Site, Phase 2, Work Site A	- Site formation / Access Road / Retaining Structure - Superstructure for housing blocks and retails - Utilities and landscaping works installation
PH 2B	PH Site, Phase 2, Work Site B	- Site formation / Access Road / Retaining Structure - Slope work along southwestern boundary - Superstructure for housing blocks - Utilities and landscaping works installation
PH 3A	PH Site, Phase 3, Work Site A	- Site formation / Retaining Structure - Superstructure for housing blocks, PTI, carparks - Utilities and landscaping works installation
PH 3B	PH Site, Phase 3, Work Site B	- Site formation / Retaining Structure - Slope work along western boundary - Superstructure for housing blocks - Utilities and landscaping works installation
YLIEE 1A	YLIEE Site, Work Site A	- Site formation / Access Road / Retaining Structure - Utilities and landscaping works installation
YLIEE 1B	YLIEE Site, Work Site B	- Site formation / Retaining Structure - Slope work along western boundary - Utilities and landscaping works installation - Ecological compensation Area



**Legend**

- Public Housing Site (PH Site)
- Yuen Long Industrial Estate Extension (YLIEE Site)
- Phase 1 of PH Site
- Phase 2 of PH Site
- Phase 3 of PH Site
- YLIEE Site
- ↔ Tentative Extent of Slope Works
- Tentative Site Office
- Temporary Stockpiling Area

A	FIRST ISSUE	GL	11/13		
Rev	Description	By	Date		
Consultant					
ARUP					
Project title					
Agreement No. CB20120293 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau					
Drawing title					
Development Phasing and Key Construction Elements (within Project Site)					
Drawing no.					
Figure 3.1					
Rev. A					
Drawn	GL	Date	11/13	Checked	IL
			Approved	ST	
Scale					
AS SHOWN			Status		
			PRELIMINARY		
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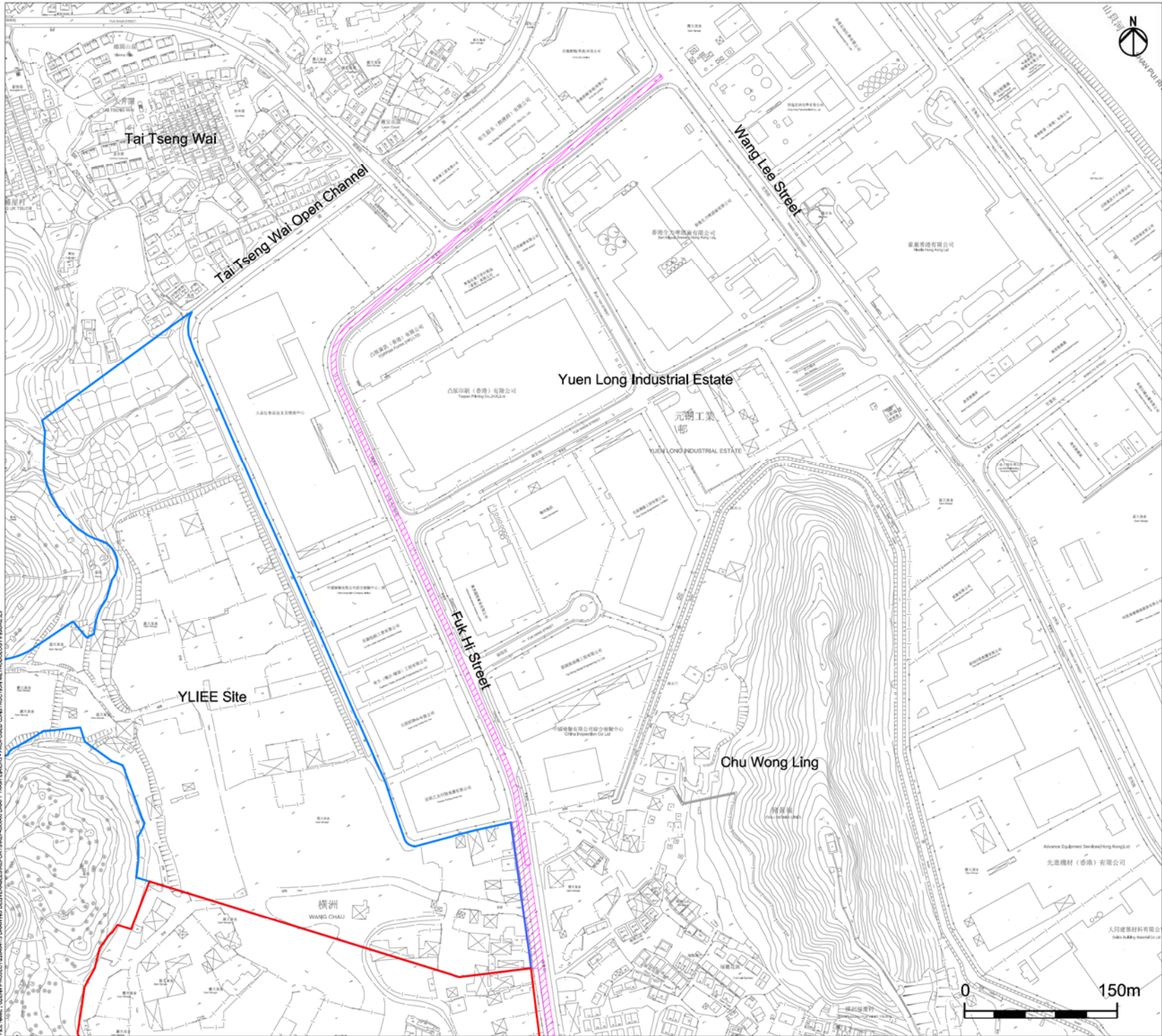












- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Tentative Off-Site Temporary Works Areas for Utilities

A	FIRST ISSUE	GL	11/13
Rev	Description	By	Date

Consultant  
**ARUP**

Project title  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
Tentative Off-Site Temporary Works Areas for Utilities

Drawing no.	Figure 3.3a	Rev.	A
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Drawn	GL	Date	11/13	Checked	IL	Approved	ST
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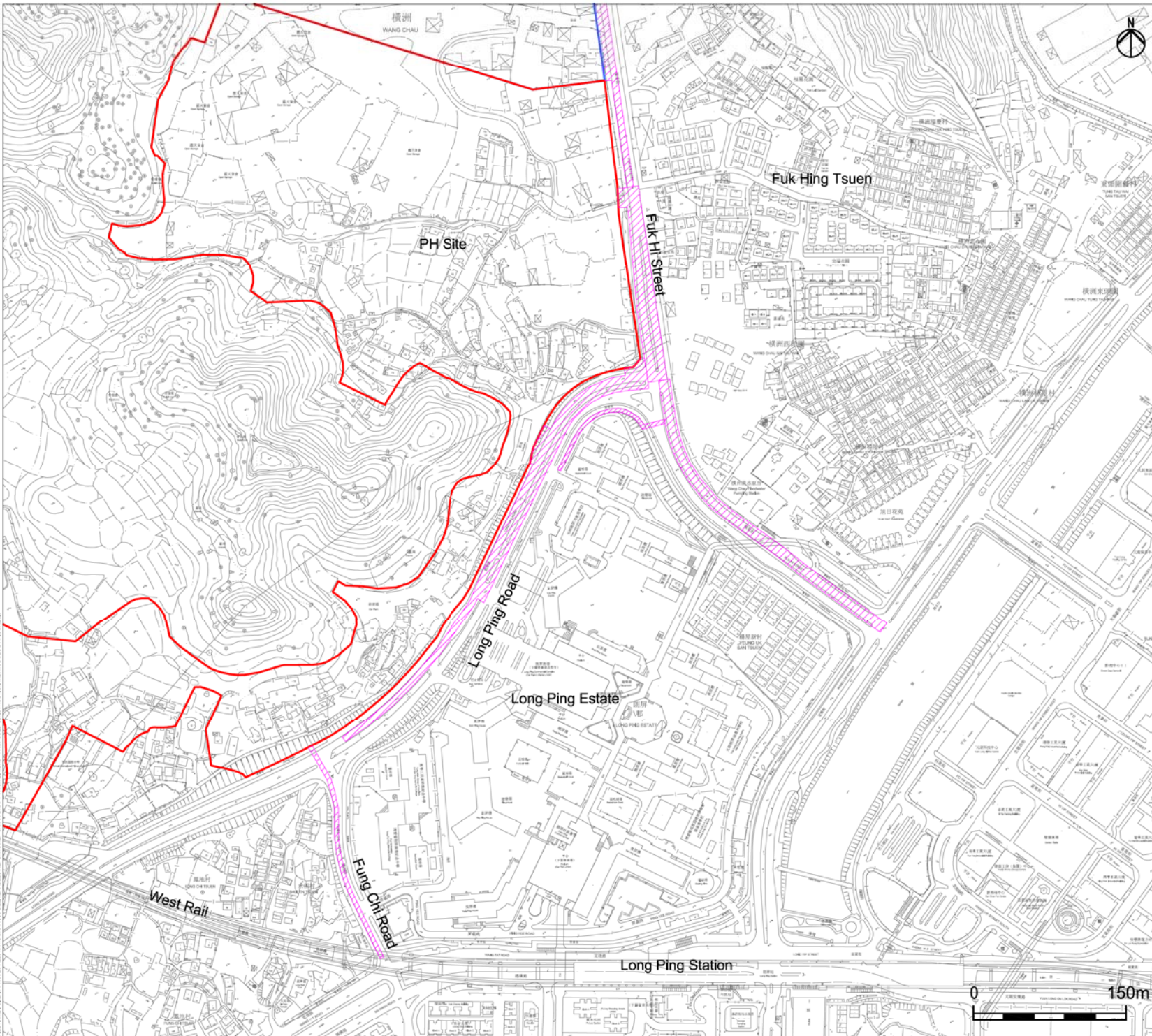
Scale	AS SHOWN	Status	PRELIMINARY
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USER: PK00AC141 TIME: 13 NOV 2013 - 09:50 AM  
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 PLOT: 1:10000





**Legend**

- Public Housing Site (PH Site)
- Yuen Long Industrial Estate Extension (YLIEE Site)
- Tentative Off-Site Temporary Works Areas for Utilities

A	FIRST ISSUE	GL	11/13	
Rev	Description	By	Date	
Consultant				
<h1>ARUP</h1>				
Project title				
Agreement No. CB20120293 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau				
Drawing title				
Tentative Off-Site Temporary Works Areas for Utilities				
Drawing no.				
			Figure 3.3b	Rev. A
Drawn	GL	Date	11/13	Checked
				IL
				Approved
				ST
Scale				
AS SHOWN			Status	
			PRELIMINARY	
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USER: PROGMAC141 TIME: 13 NOV 2013 - 06:00  
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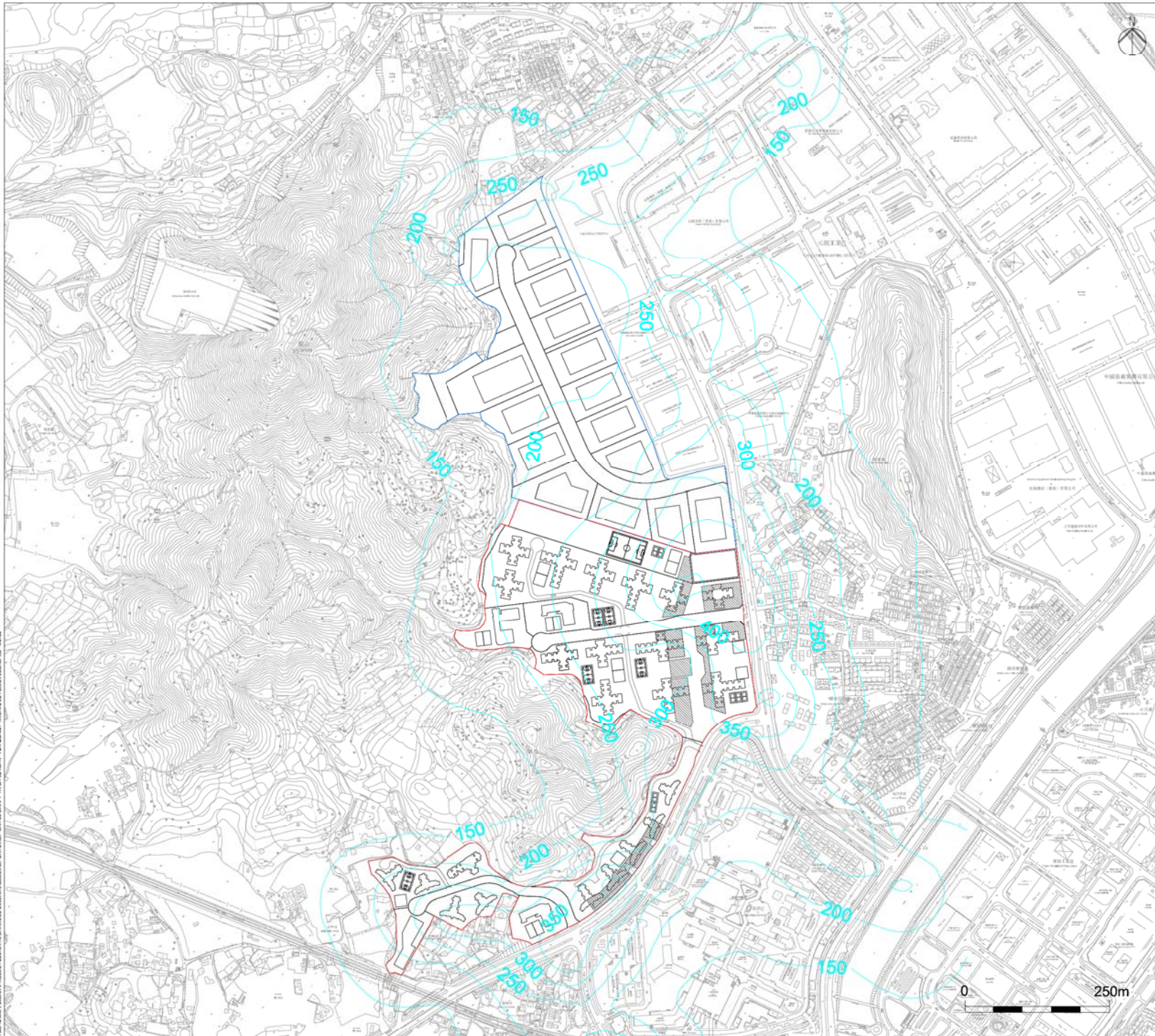








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**Legend**

- Public Housing Site (PH Site)
- Yuen Long Industrial Estate Extension (YLIEE Site)
- 1 Hour TSP Concentration

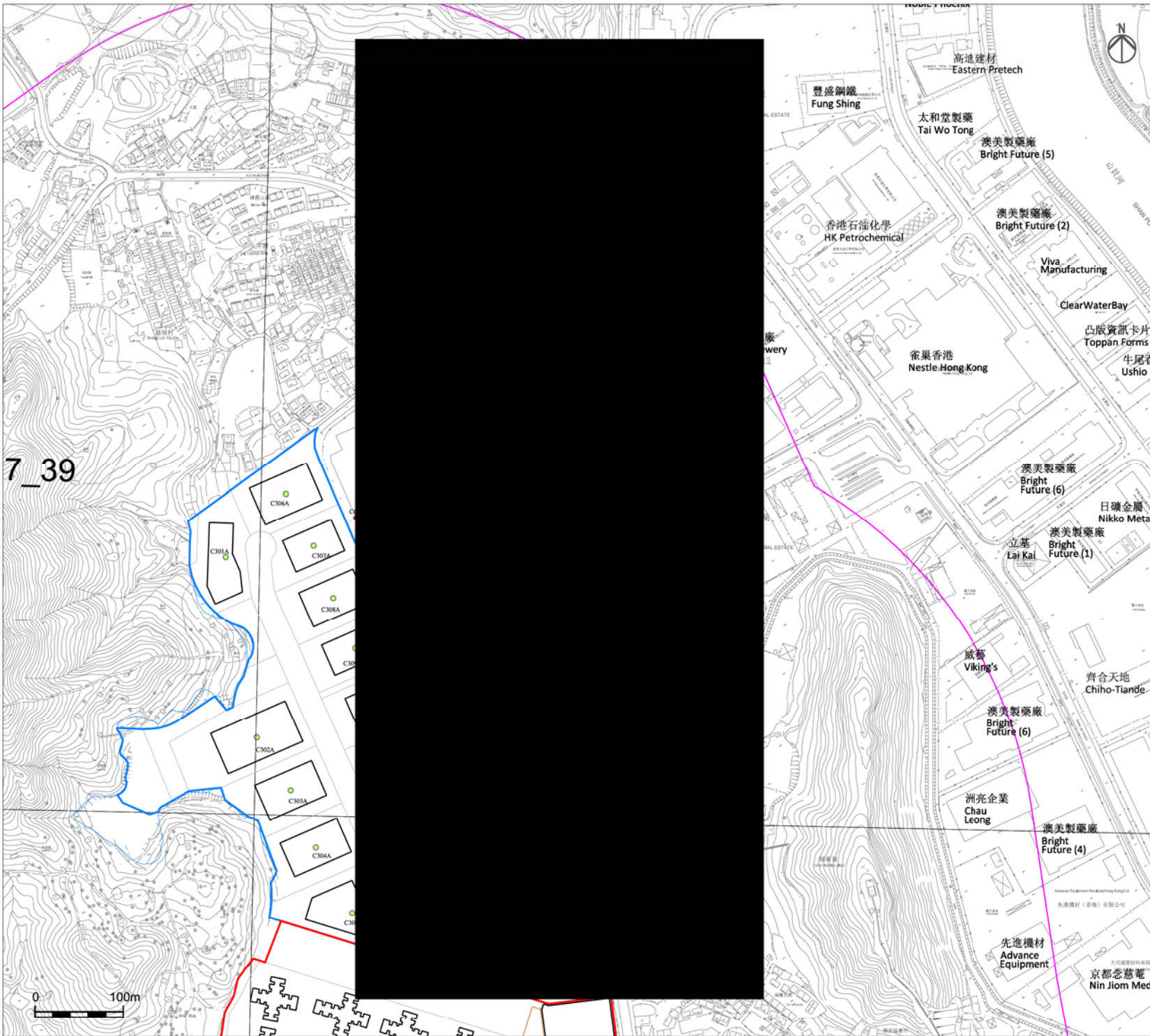
**Remark**

1 Hour TSP Criterion: 500  $\mu\text{g}/\text{m}^3$   
(Annex 4 of TM-EIAO)

A	FIRST ISSUE	KY	11/13
Rev	Description	By	Date
Consultant			
ARUP			
Project title			
Agreement No. CB20120293 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau			
Drawing title			
Mitigated Construction Dust Contour for 1-Hour TSP Concentration at 1.5m above Ground			
Drawing no.	Figure 4.3	Rev.	A
Drawn	Date	Checked	Approved
KY	11/13	IL	ST
Scale	Status	PRELIMINARY	
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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - 500m Assessment Area
  - Chimney current in use
  - Chimney for emergency
  - Chimney not used
  - Assumed Chimney in YLIEE

Rev	Description	By	Date
A	FIRST ISSUE	GL	11/13

**ARUP**

Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

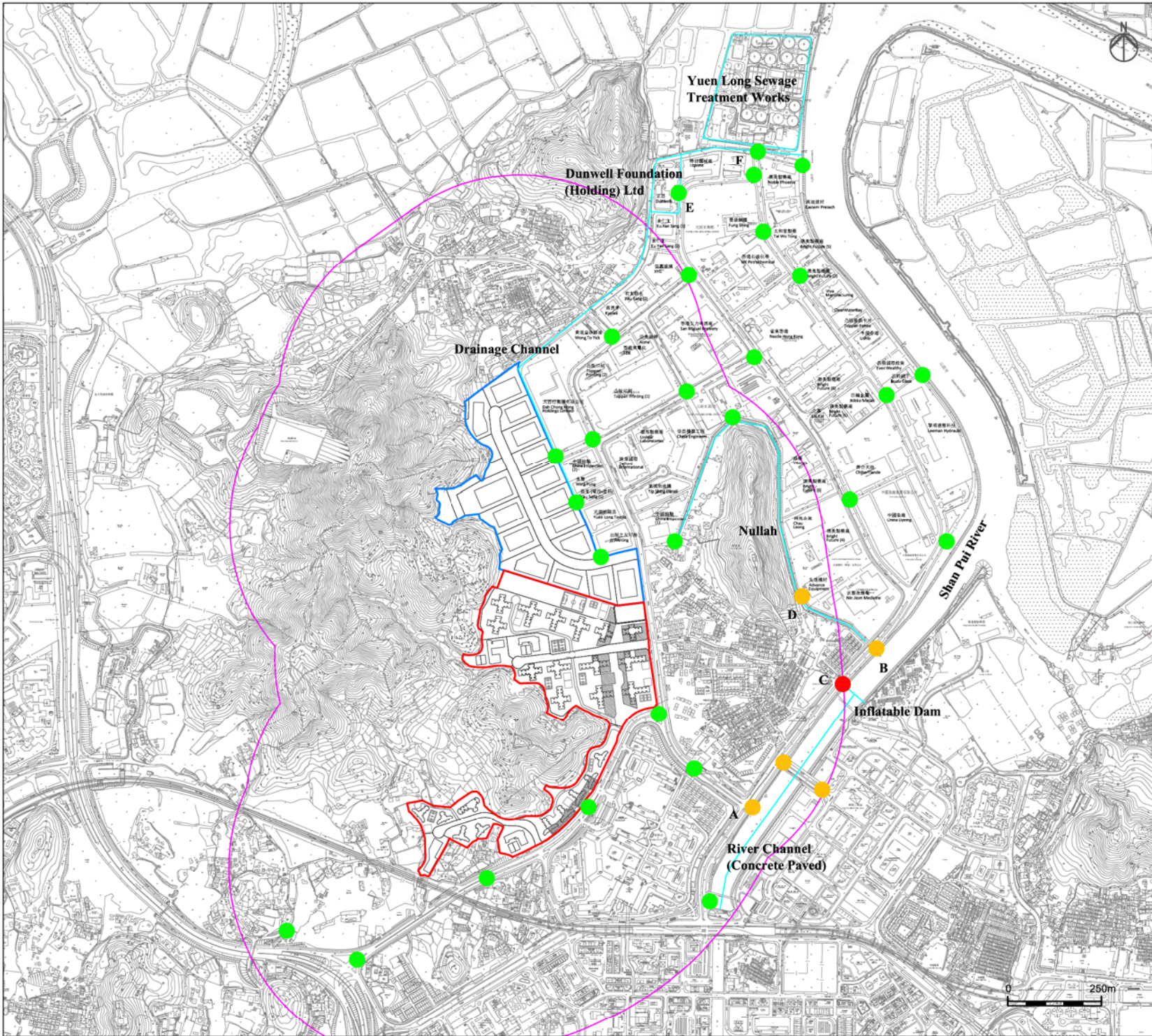
Drawing title  
 Location of Chimney sources

Drawn	GL	Date	11/13	Checked	IL	Approved	ST
Scale	AS SHOWN		Status	PRELIMINARY			



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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - 500m Assessment Area
  - Potential Source
  - Noticeable Odour
  - Mild/ Occasional Odour
  - No Odour

Rev	DESCRIPTION	By	Date
A	FIRST ISSUE	GL	11/13

Consultant  
**ARUP**

Project title  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

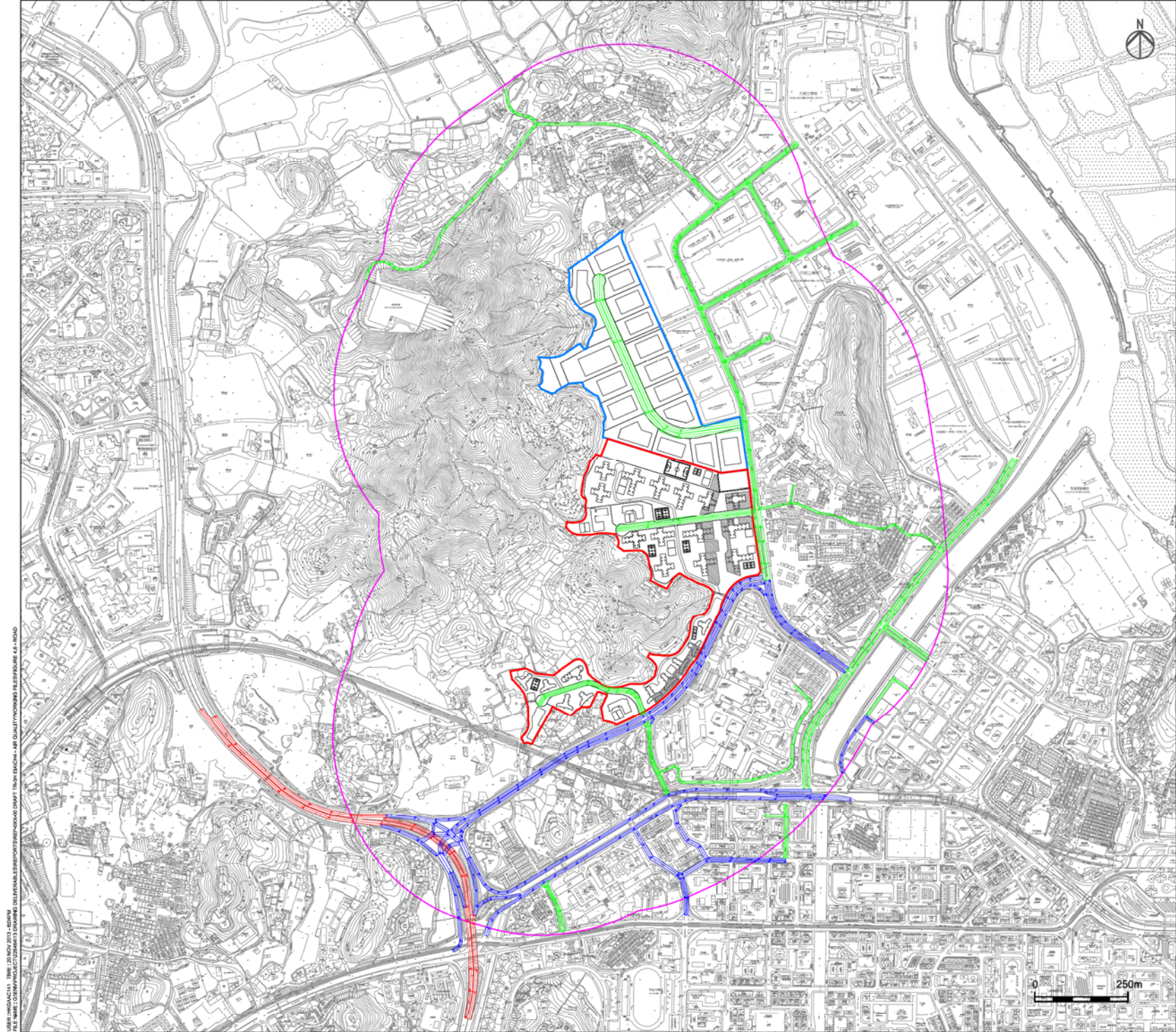
Drawing title  
Odour Survey Findings

Drawing no.	Figure 4.5			Rev.	A
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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - 500m Assessment Area
  - PD/DD:50km/hr
  - LD/DD:50km/hr
  - PD:70km/hr

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Rev	Description	By	Date		
Consultant					

ARUP

Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Road grouping by types and speed

Drawing no.	Figure 4.6		Rev.	A
Drawn	GL	Date	11/13	Checked
Scale	AS SHOWN	Status	PRELIMINARY	Approved
				ST

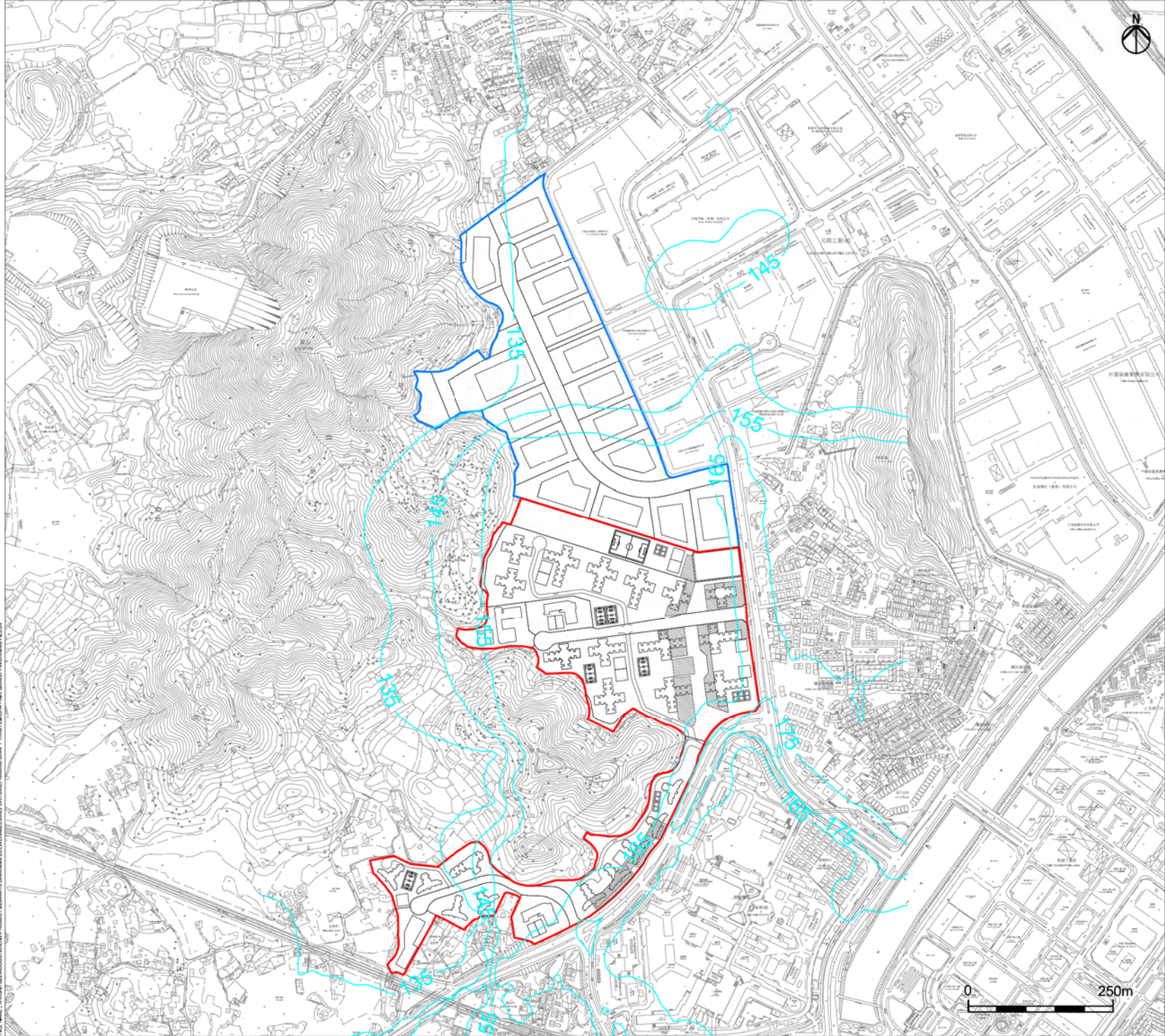
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**Legend**

- Public Housing Site (PH Site)
- Yuen Long Industrial Estate Extension (YLIEE Site)
- 1 Hour NO<sub>2</sub> Concentration

**Remark**

1 Hour NO<sub>2</sub> New AQO : 200 µg/m<sup>3</sup>  
(18 allowed exceedance)

A	FIRST ISSUE	KY	11/13
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Consultant

# ARUP

Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Contours of Cumulative 1-Hour NO<sub>2</sub> Concentration at 1.5m above Ground in Year 2024 (19th highest Concentration Level)

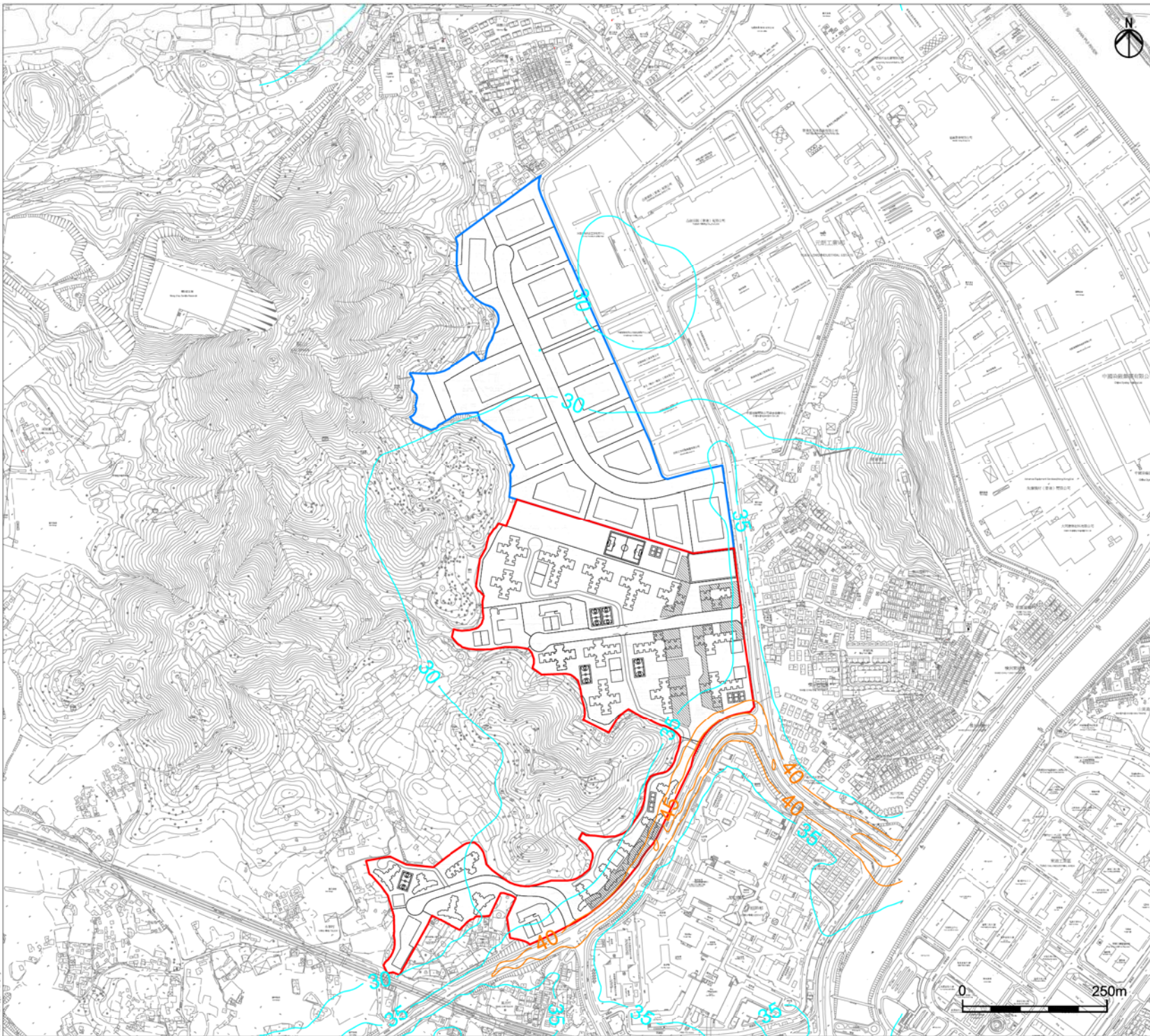
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Drawn	KY	Date	11/13	Checked	IL
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**Legend**

- Public Housing Site (PH Site)
- Yuen Long Industrial Estate Extension (YLIEE Site)
- Annual NO<sub>2</sub> Concentration
- Annual NO<sub>2</sub> Concentration Exceedance

**Remark**

Annual NO<sub>2</sub> New AQO : 40 µg/m<sup>3</sup>

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Consultant

# ARUP

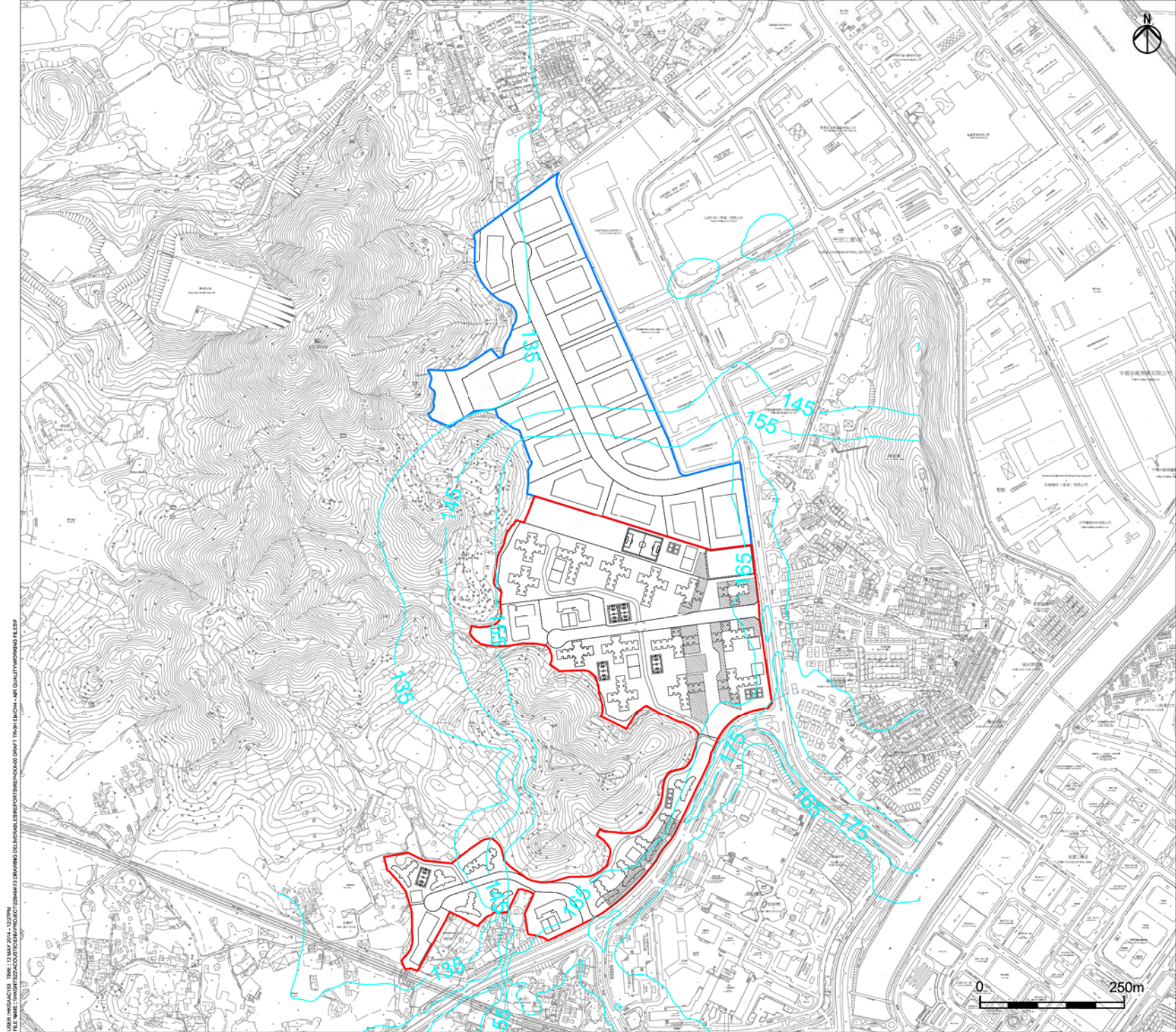
Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Contours of Cumulative Annual-Averaged NO<sub>2</sub> Concentration at 1.5m above Ground in Year 2024

Drawing no.	Figure 4.8			Rev.	A
Drawn	KY	Date	11/13	Checked	IL
				Approved	ST
Scale	AS SHOWN		Status	PRELIMINARY	







**Legend**

- Public Housing Site (PH Site)
- Yuen Long Industrial Estate Extension (YLIEE Site)
- 1 Hour NO<sub>2</sub> Concentration

**Remark**

1 Hour NO<sub>2</sub> New AQO : 200 µg/m<sup>3</sup>  
(18 allowed exceedance)

A	FIRST ISSUE	KY	11/13
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Consultant

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**Project title**  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

**Drawing title**  
 Contours of Cumulative 1-Hour NO<sub>2</sub> Concentration at 1.5m above Ground in Year 2026 (19th highest Concentration Level)

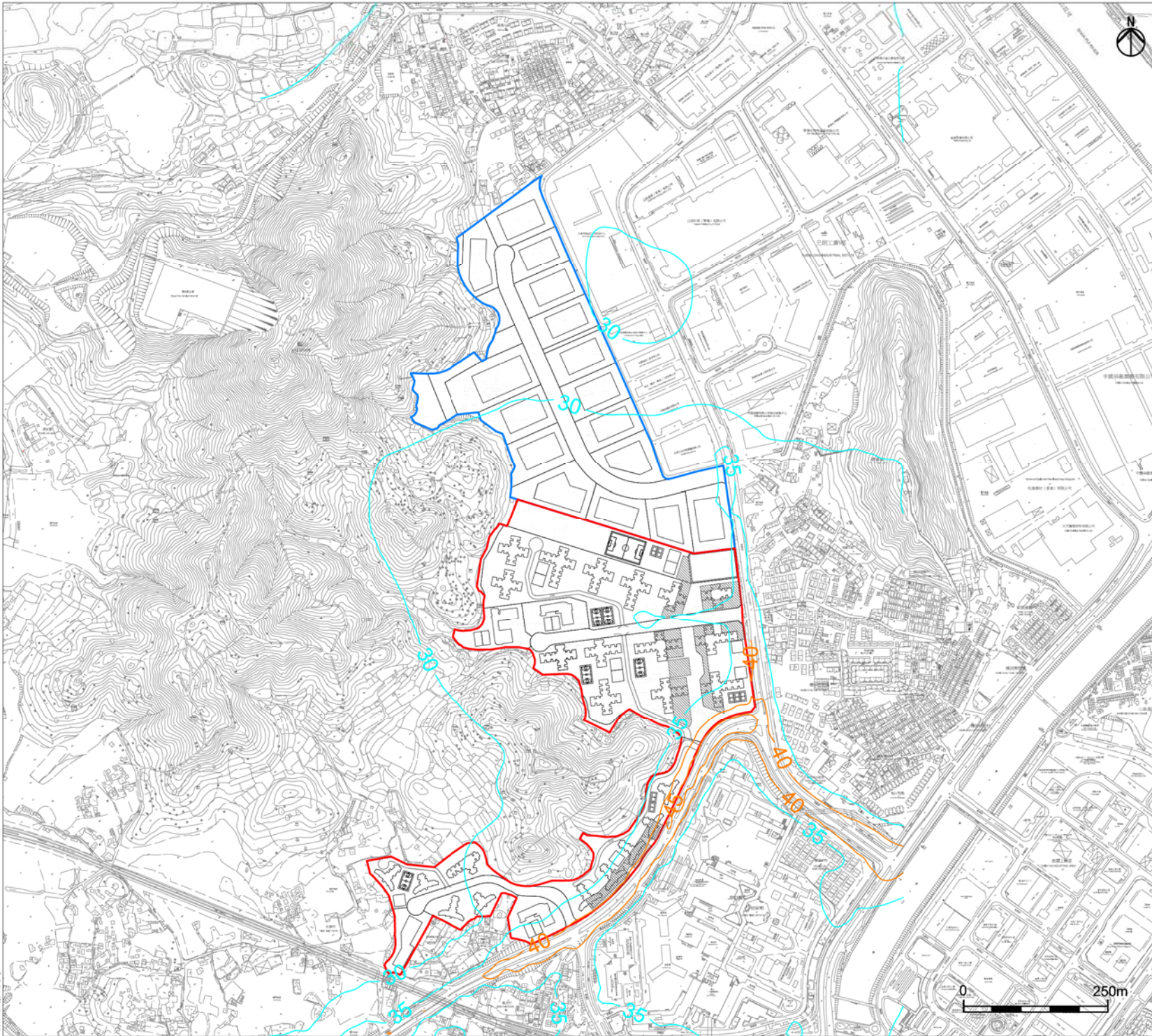
Drawing no.	Figure 4.9			Rev.	A
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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Annual NO<sub>2</sub> Concentration
  - Annual NO<sub>2</sub> Concentration Exceedance

**Remark**  
Annual NO<sub>2</sub> New AQO : 40 µg/m<sup>3</sup>

A	FIRST ISSUE	KY	11/13
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Consultant  
**ARUP**

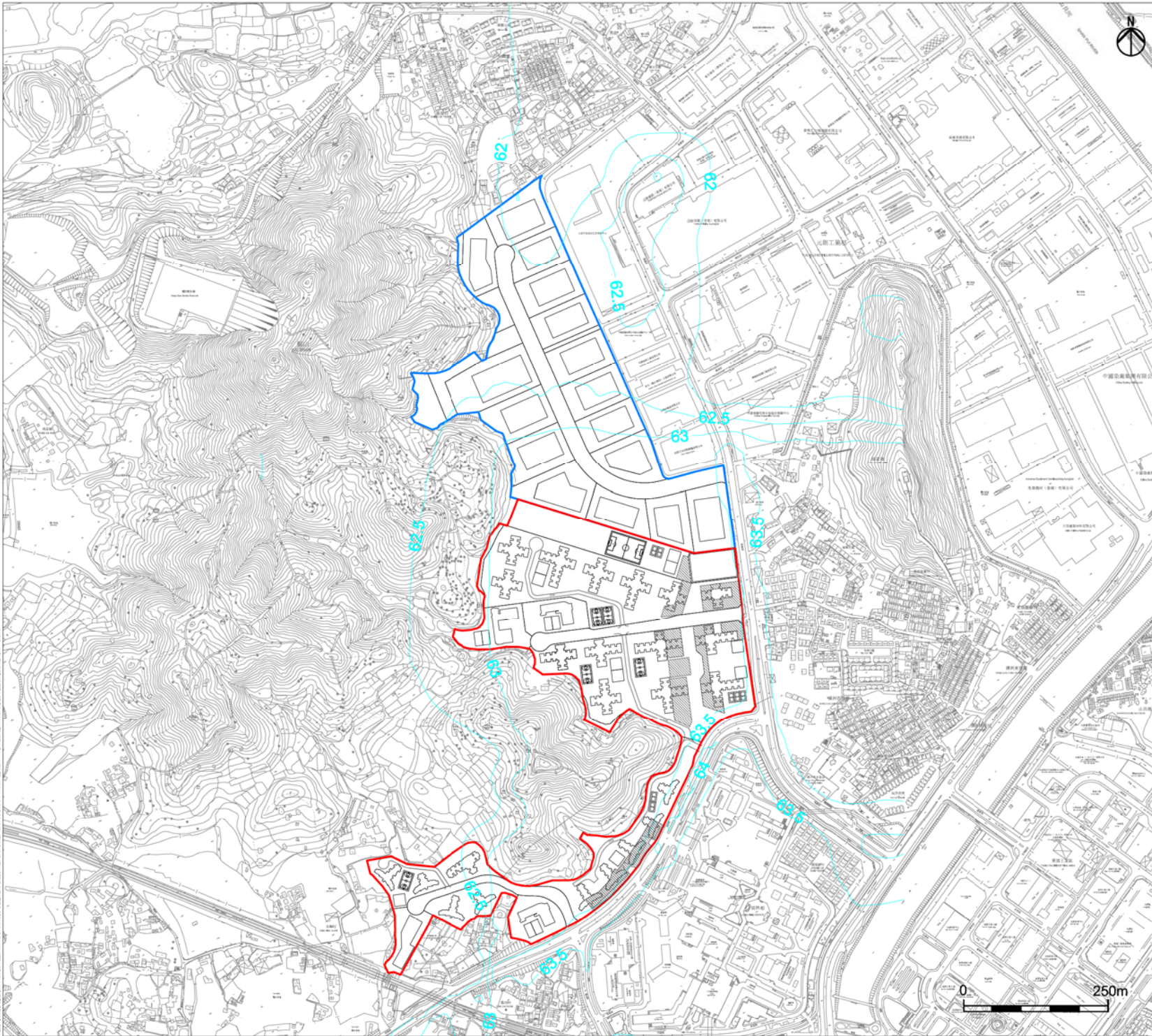
Project title  
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Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
Contours of Cumulative Annual-Averaged NO<sub>2</sub> Concentration at 1.5m above Ground in Year 2026

Drawing no.	Figure 4.10			Rev.	A
Drawn	KY	Date	11/13	Checked	IL
Scale	AS SHOWN	Status	PRELIMINARY		







**Legend**

- Public Housing Site (PH Site)
- Yuen Long Industrial Estate Extension (YLIEE Site)
- 24 hour PM<sub>2.5</sub> Concentration

**Remark**

24 hour PM<sub>2.5</sub> New AQO : 75 µg/m<sup>3</sup>  
(9 allowed exceedance)

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Consultant

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**Project title**  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

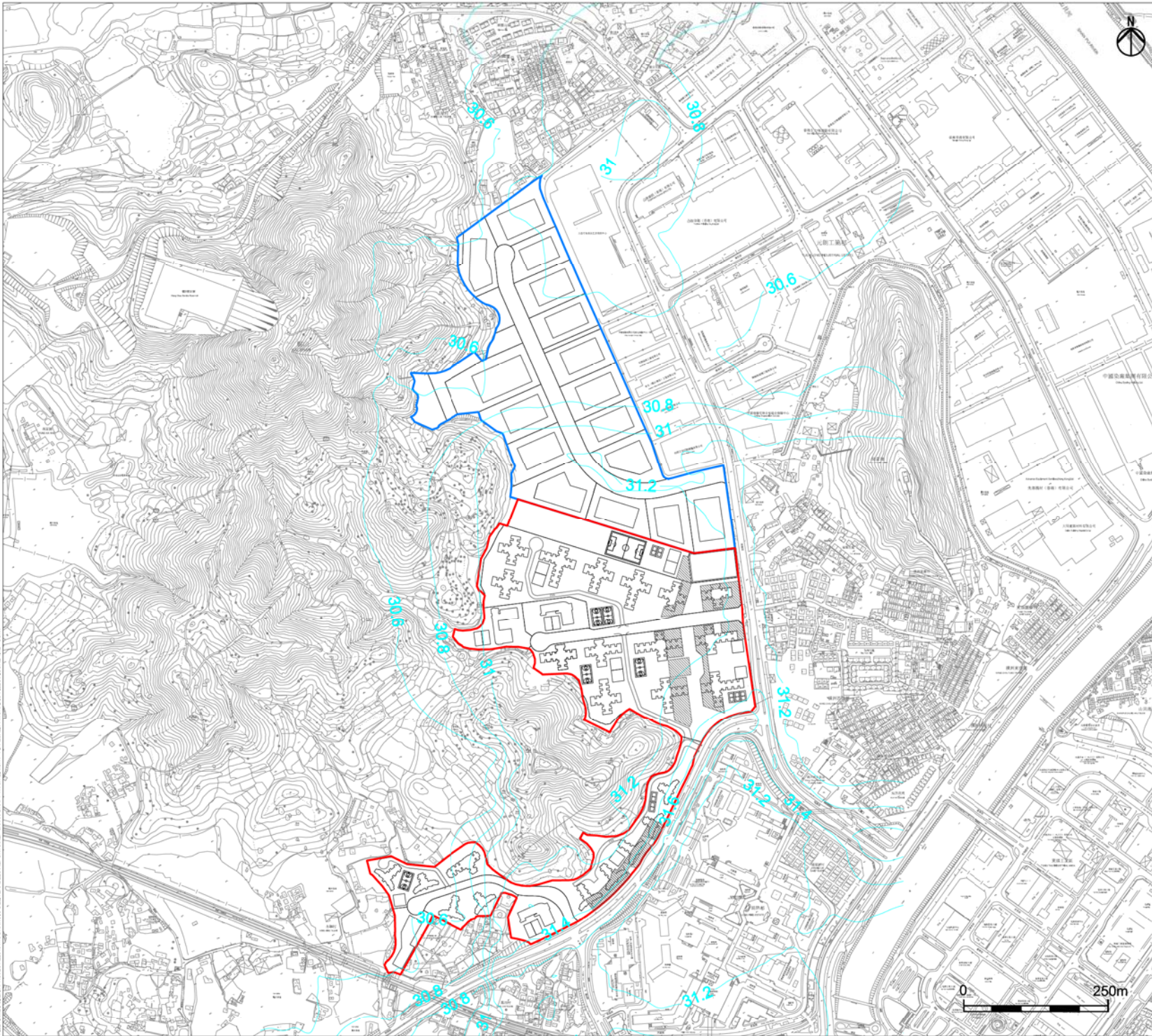
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 Contours of Cumulative 24-Hour PM<sub>2.5</sub> Concentration at 1.5m above Ground in Year 2024 (10th highest Concentration Level)

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Drawn	KY	Date	11/13	Checked	IL
Scale		Status	PRELIMINARY		
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Legend

- Public Housing Site (PH Site)
- Yuen Long Industrial Estate Extension (YLIEE Site)
- Annual PM<sub>2.5</sub> Concentration

Remark

Annual PM<sub>2.5</sub> New AQO : 35 µg/m<sup>3</sup>

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Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Contours of Cumulative Annual-Averaged PM<sub>2.5</sub> Concentration at 1.5m above Ground in Year 2024

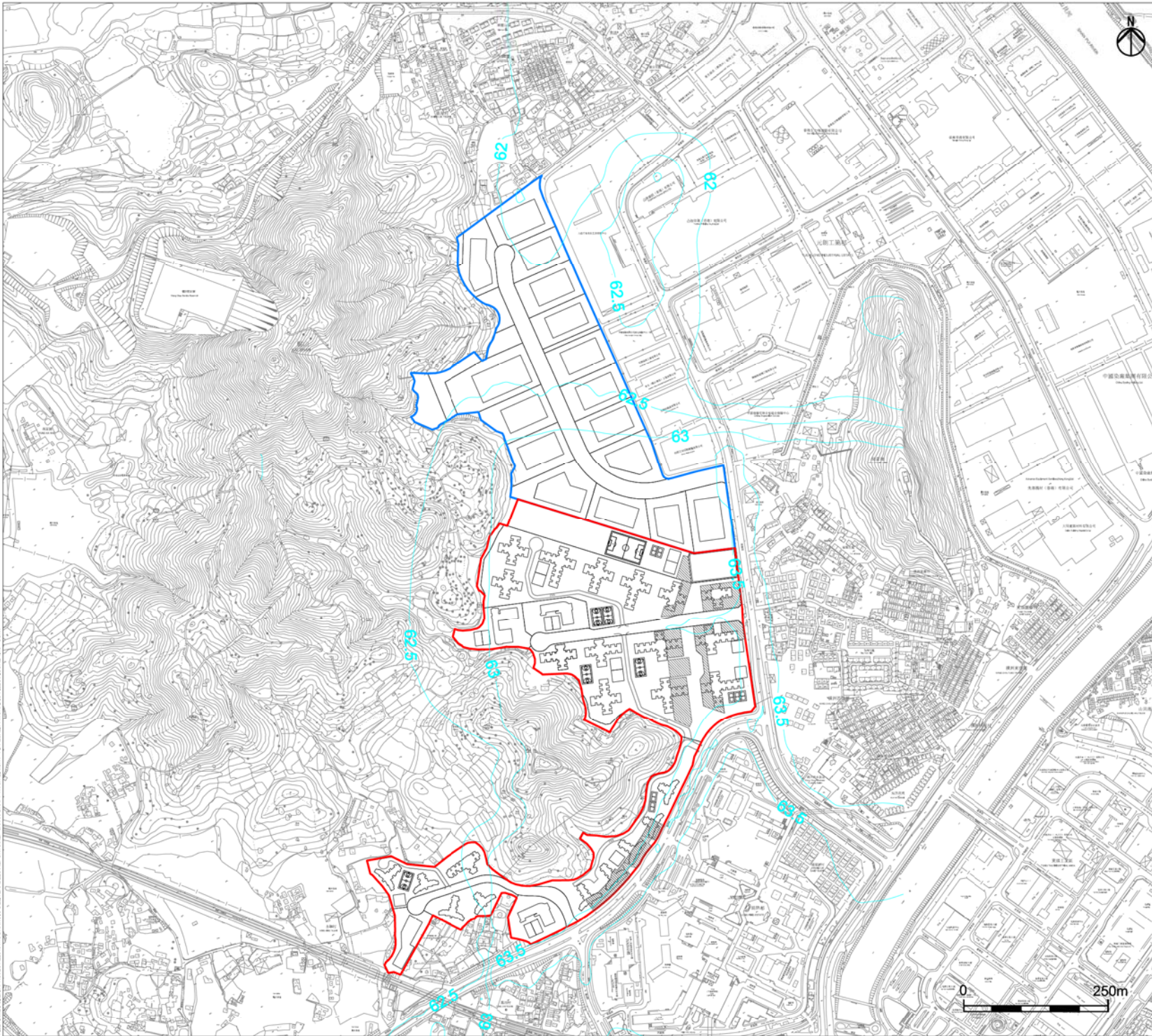
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**Legend**

- Public Housing Site (PH Site)
- Yuen Long Industrial Estate Extension (YLIEE Site)
- 24 hour PM<sub>2.5</sub> Concentration

**Remark**

24 hour PM<sub>2.5</sub> New AQO : 75 µg/m<sup>3</sup>  
(9 allowed exceedance)

A	FIRST ISSUE	KY	11/13
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Consultant **ARUP**

Project title  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

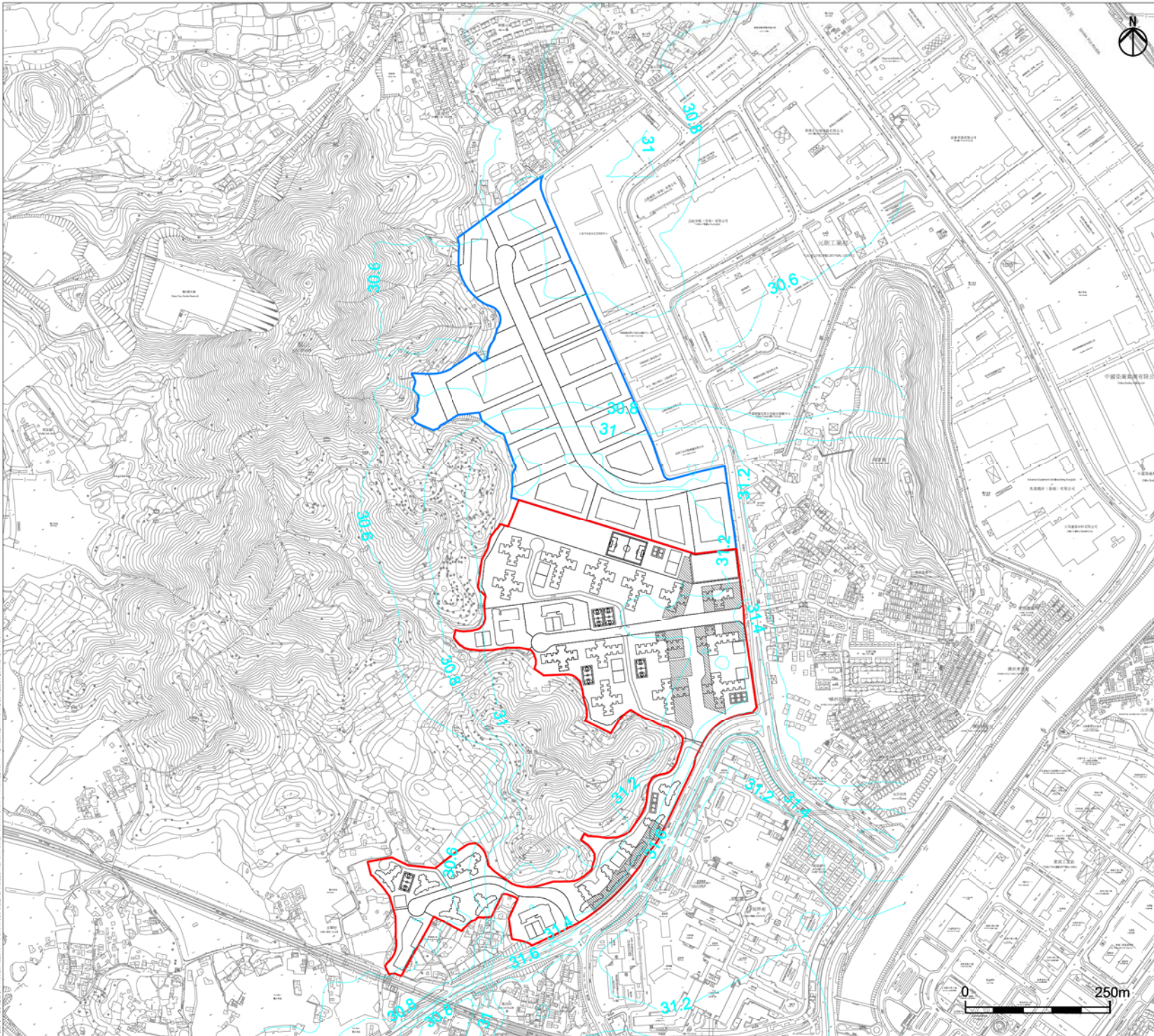
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Contours of Cumulative 24-Hour PM<sub>2.5</sub> Concentration at 1.5m above Ground in Year 2026 (10th highest Concentration Level)

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Drawn	KY	Date	11/13	Checked	IL
Scale	AS SHOWN	Status	PRELIMINARY	Approved	ST



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**Legend**

- Public Housing Site (PH Site)
- Yuen Long Industrial Estate Extension (YLIEE Site)
- Annual PM<sub>2.5</sub> Concentration

**Remark**

Annual PM<sub>2.5</sub> New AQO : 35 µg/m<sup>3</sup>

A	FIRST ISSUE	KY	11/13
Rev	Description	By	Date

Consultant

# ARUP

**Project title**  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

**Drawing title**  
 Contours of Cumulative Annual-Averaged PM<sub>2.5</sub> Concentration at 1.5m above Ground in Year 2026

Drawing no.		Figure 4.14		Rev.	A
Drawn	KY	Date	11/13	Checked	IL
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Scale		AS SHOWN		Status	PRELIMINARY

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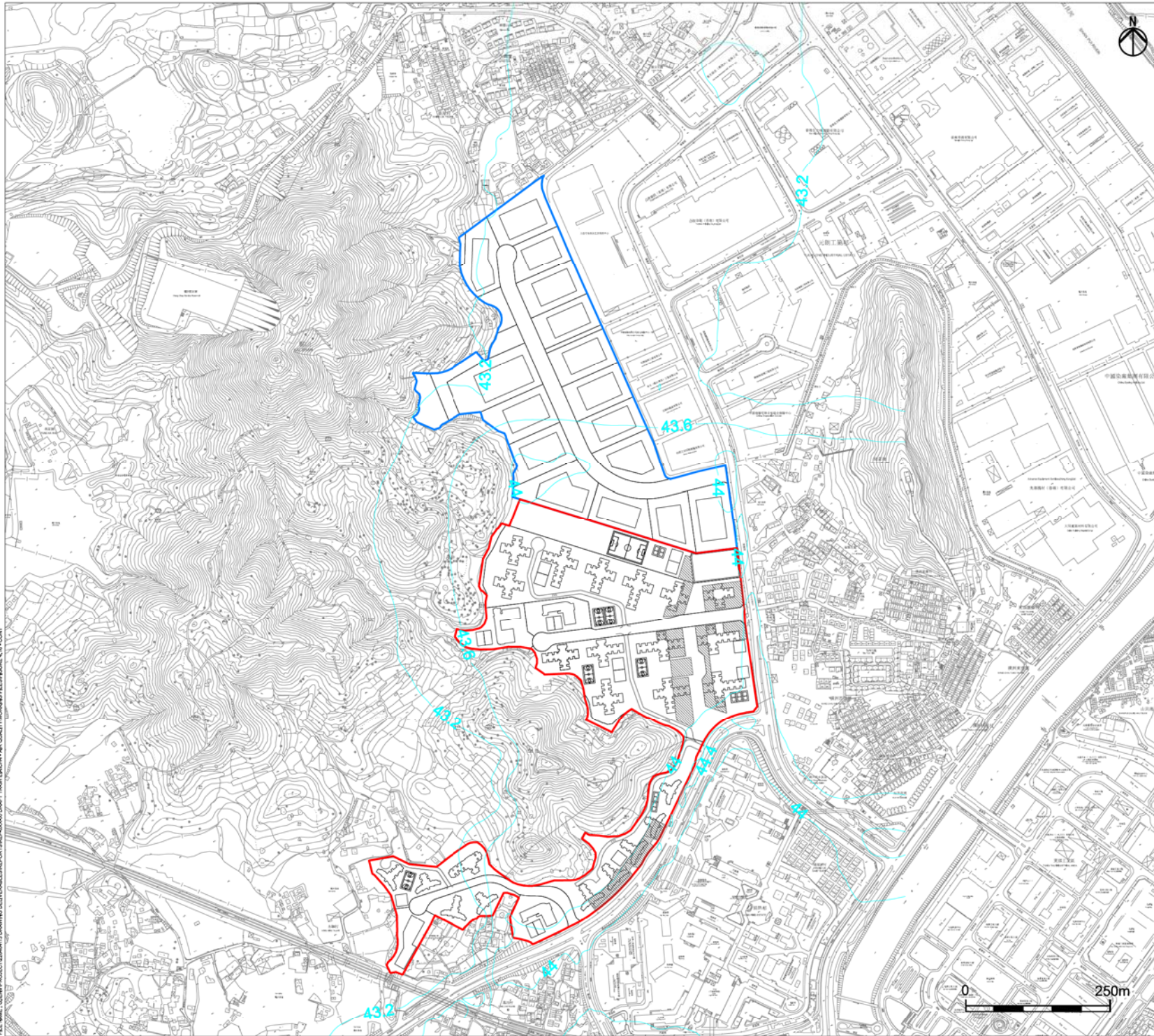
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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Annual PM<sub>10</sub> Concentration

**Remark**  
Annual PM<sub>10</sub> New AQO : 50 µg/m<sup>3</sup>

A	FIRST ISSUE	KY	11/13
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Consultant  
**ARUP**

**Project title**  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

**Drawing title**  
Contours of Cumulative Annual-Averaged PM<sub>10</sub> Concentration at 1.5m above Ground in Year 2024

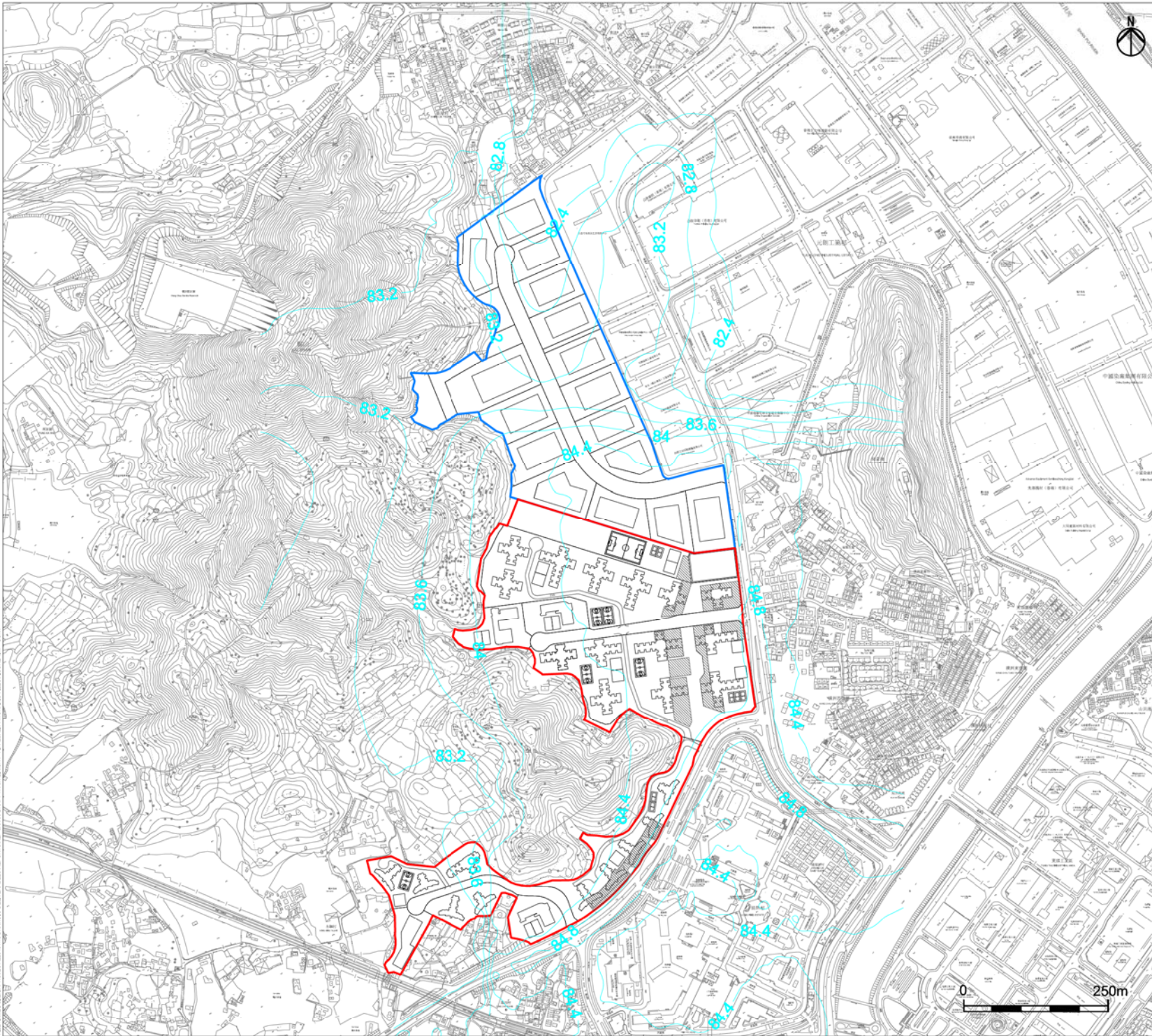
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**Legend**

- Public Housing Site (PH Site)
- Yuen Long Industrial Estate Extension (YLIEE Site)
- 24 hour PM<sub>10</sub> Concentration

**Remark**

24 hour PM<sub>10</sub> New AQO : 100 µg/m<sup>3</sup>  
(9 allowed exceedance)

A	FIRST ISSUE	KY	11/13
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Consultant **ARUP**

Project title  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
Contours of Cumulative 24-Hour PM<sub>10</sub> Concentration at 1.5m above Ground in Year 2026 (10th highest Concentration Level)

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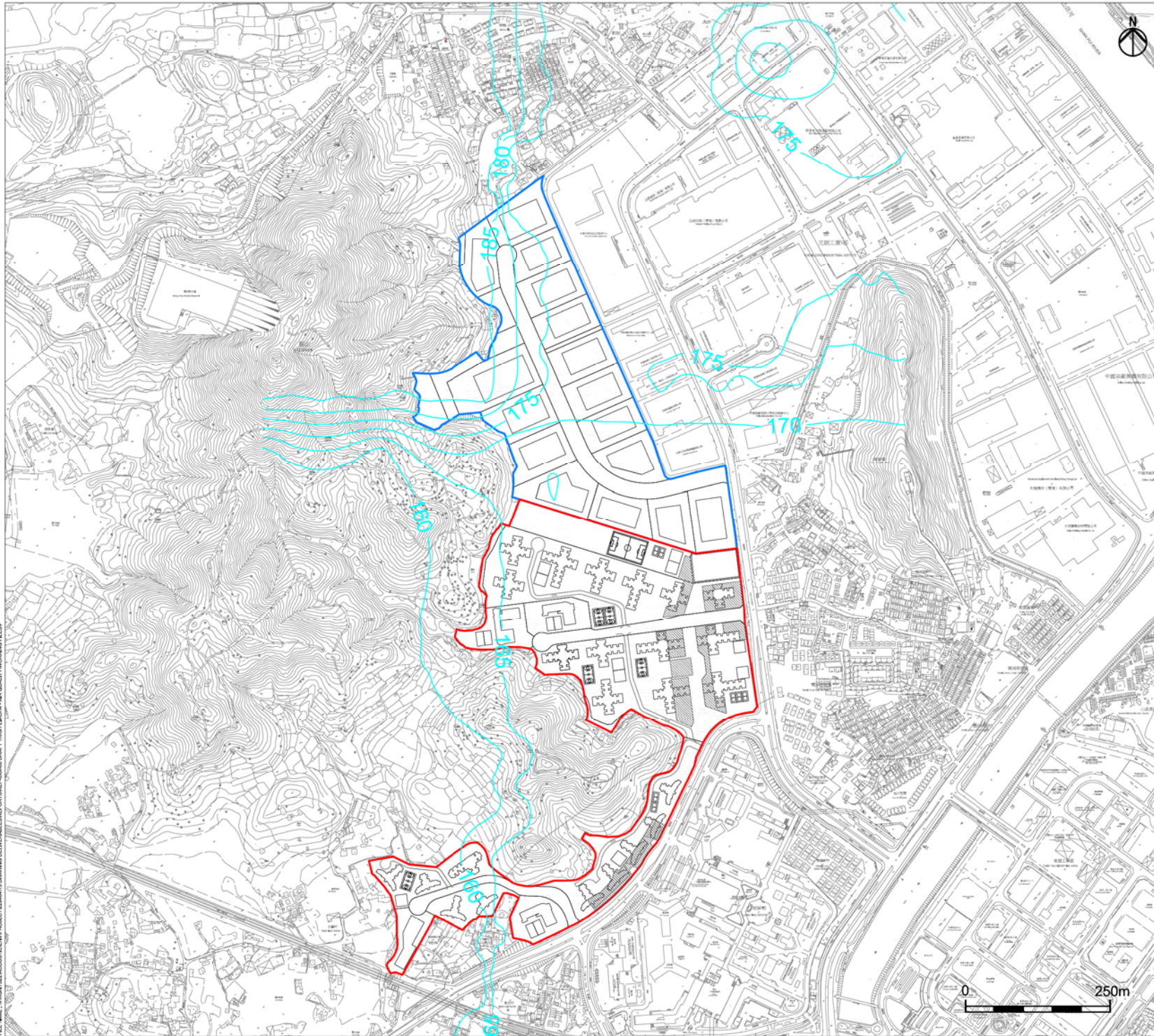


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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - 10 Minute SO<sub>2</sub> Concentration

**Remark**  
 10 Minute SO<sub>2</sub> New AQO : 500 µg/m<sup>3</sup>  
 (3 allowed exceedance)

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A	FIRST ISSUE	KY	11/13

Consultant  
**ARUP**

Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Contours of Cumulative 10-Minute SO<sub>2</sub> Concentration at 1.5m above Ground in Year 2024 (4th highest Concentration Level)

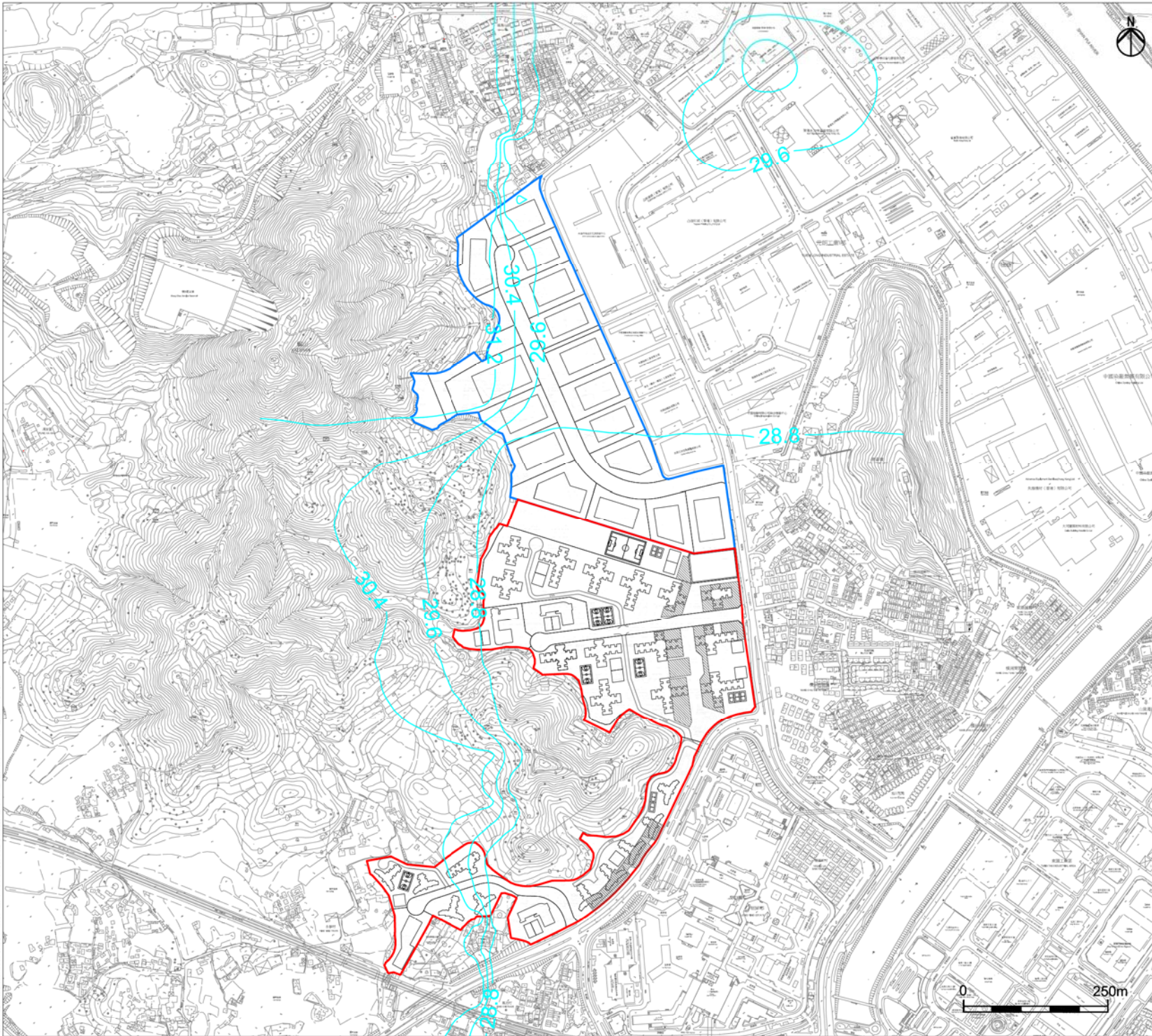
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**Legend**

- Public Housing Site (PH Site)
- Yuen Long Industrial Estate Extension (YLIEE Site)
- 24 hour SO<sub>2</sub> Concentration

**Remark**

24 hour SO<sub>2</sub> New AQO : 125 µg/m<sup>3</sup>  
(3 allowed exceedance)

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A	FIRST ISSUE	KY	11/13

Consultant

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**Project title**  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

**Drawing title**  
 Contours of Cumulative 24-Hour SO<sub>2</sub> Concentration at 1.5m above Ground in Year 2024 (4th highest Concentration Level)

Drawing no.	Figure 4.20			Rev.	A
Drawn	KY	Date	11/13	Checked	IL
Scale	AS SHOWN		Status	PRELIMINARY	

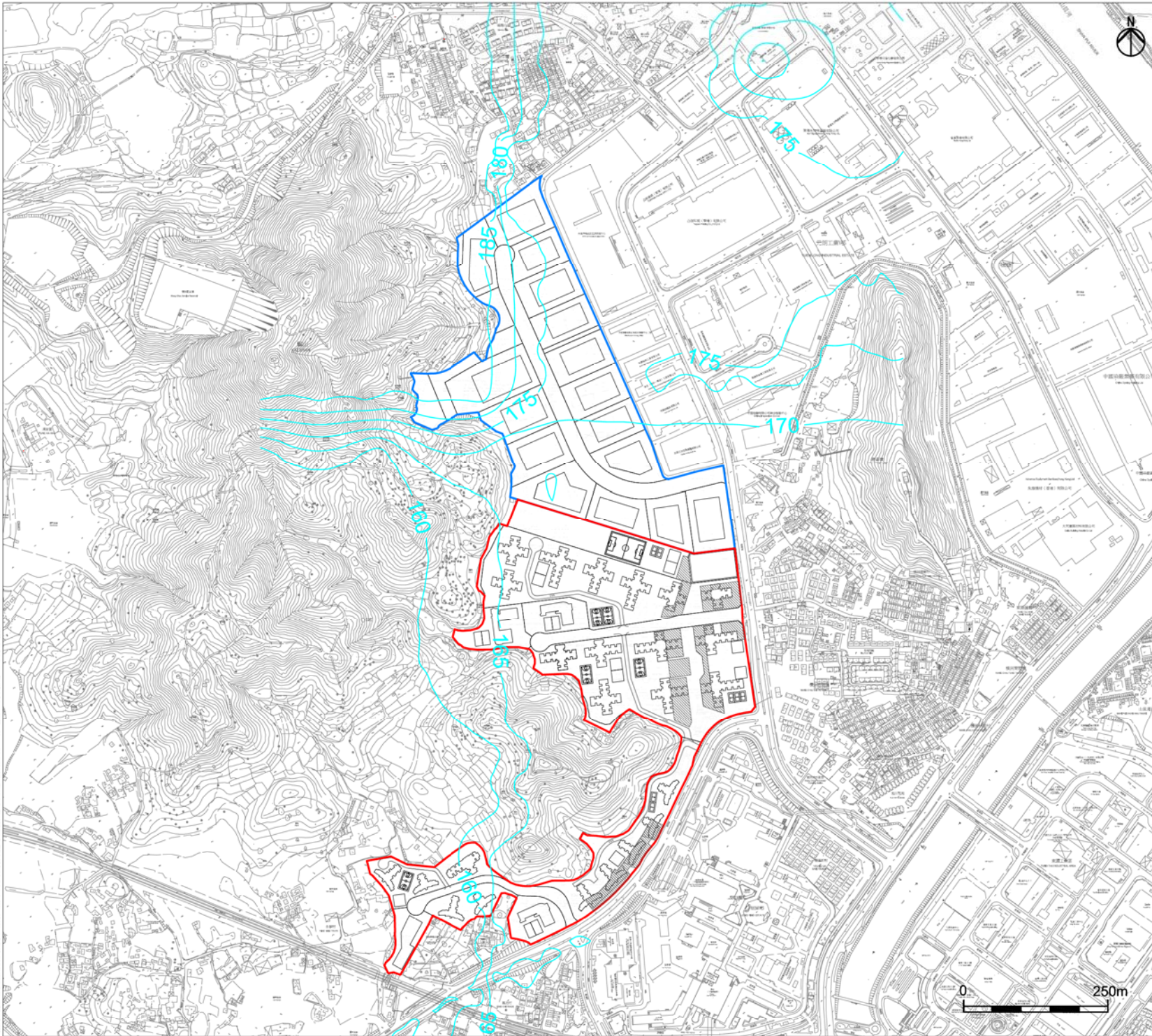
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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - 10 Minute SO<sub>2</sub> Concentration

**Remark**  
 10 Minute SO<sub>2</sub> New AQO : 500 µg/m<sup>3</sup>  
 (3 allowed exceedance)

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**ARUP**

Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Contours of Cumulative 10-Minute SO<sub>2</sub> Concentration at 1.5m above Ground in Year 2026 (4th highest Concentration Level)

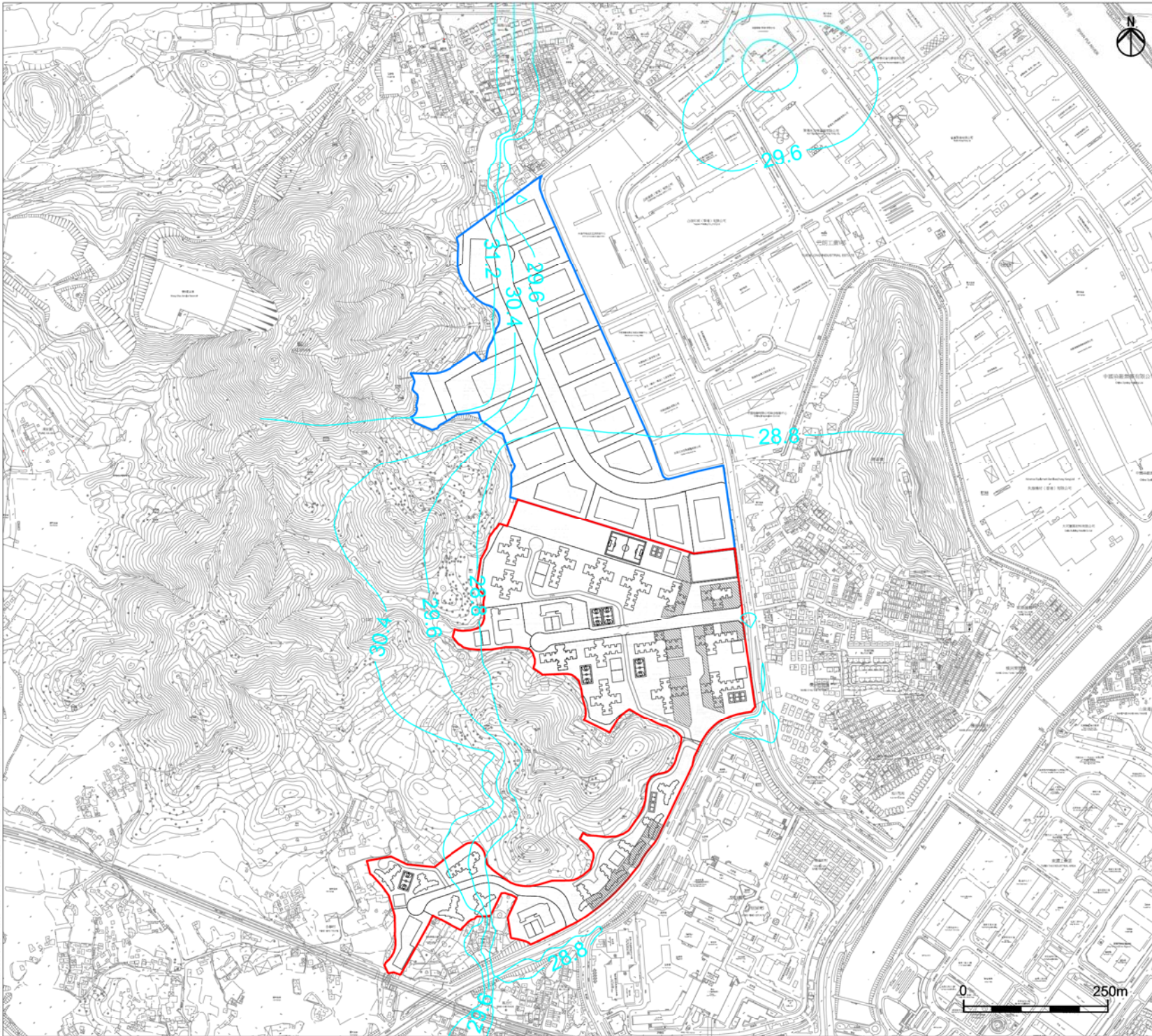
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 FILE NAME: I:\PROJECTS\2012\20120293\DRAWING\DELIVERABLES\REPORT\ENGINEERING\DWG\TRK04P\_EACH1 - AIR QUALITY\WORKING\TRK04P







**Legend**

- Public Housing Site (PH Site)
- Yuen Long Industrial Estate Extension (YLIEE Site)
- 24 hour SO<sub>2</sub> Concentration

**Remark**

24 hour SO<sub>2</sub> New AQO : 125 µg/m<sup>3</sup>  
(3 allowed exceedance)

Rev	Description	By	Date
A	FIRST ISSUE	KY	11/13

Consultant

# ARUP

**Project title**  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

**Drawing title**  
 Contours of Cumulative 24-Hour SO<sub>2</sub> Concentration at 1.5m above Ground in Year 2026 (4th highest Concentration Level)

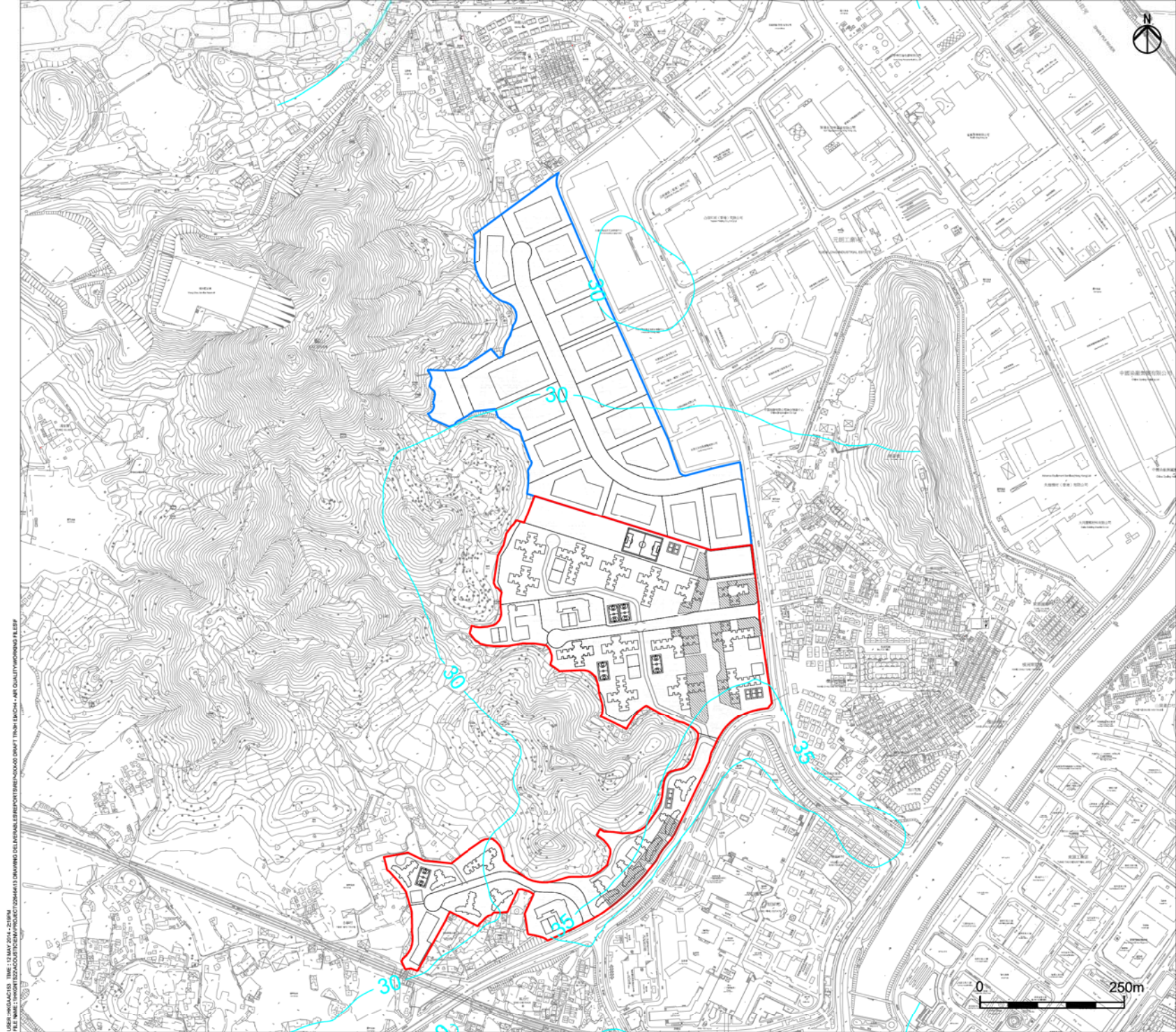
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Drawn	KY	Date	11/13	Checked	IL
Scale		Status	PRELIMINARY		
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USER: HKH\AC153 TIME: 12 MAY 2014 - 2:25 PM  
 FILE NAME: I:\PROJECTS\2012\CB20120293\DRAWING\DELIVERABLES\REPORTS\ENGINEERING\DMT\TIN\PH SITE\ENGIN - AIR QUALITY\WORKING\PL-ESP







- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Annual NO<sub>2</sub> Concentration

**Remark**  
Annual NO<sub>2</sub> New AQO : 40 µg/m<sup>3</sup>

A	FIRST ISSUE	KY	11/13
Rev	Description	By	Date

Consultant  
**ARUP**

Project title  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

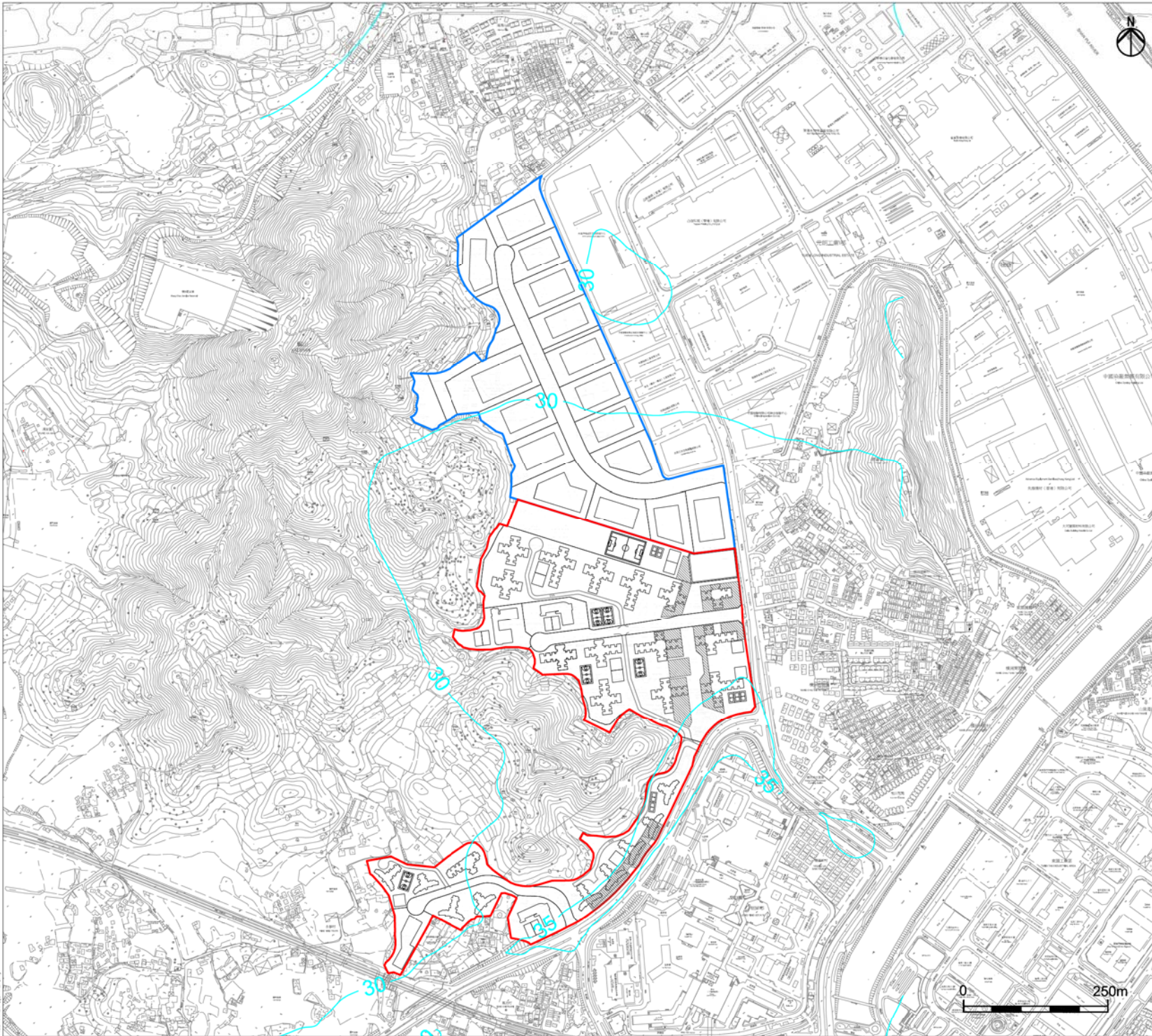
Drawing title  
Contours of Cumulative Annual-Averaged NO<sub>2</sub> Concentration at 5m above Ground in Year 2024

Drawing no.	Figure 4.23			Rev.	A
Drawn	KY	Date	11/13	Checked	IL
Scale	AS SHOWN		Status	PRELIMINARY	



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**Legend**

- Public Housing Site (PH Site)
- Yuen Long Industrial Estate Extension (YLIEE Site)
- Annual NO<sub>2</sub> Concentration

**Remark**

Annual NO<sub>2</sub> New AQO : 40 µg/m<sup>3</sup>

A	FIRST ISSUE	KY	11/13
Rev	Description	By	Date

Consultant

# ARUP

**Project title**  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

**Drawing title**  
 Contours of Cumulative Annual-Averaged NO<sub>2</sub> Concentration at 5m above Ground in Year 2026

Drawing no.	Figure 4.24			Rev.	A
Drawn	KY	Date	11/13	Checked	IL
Scale	AS SHOWN		Status	PRELIMINARY	

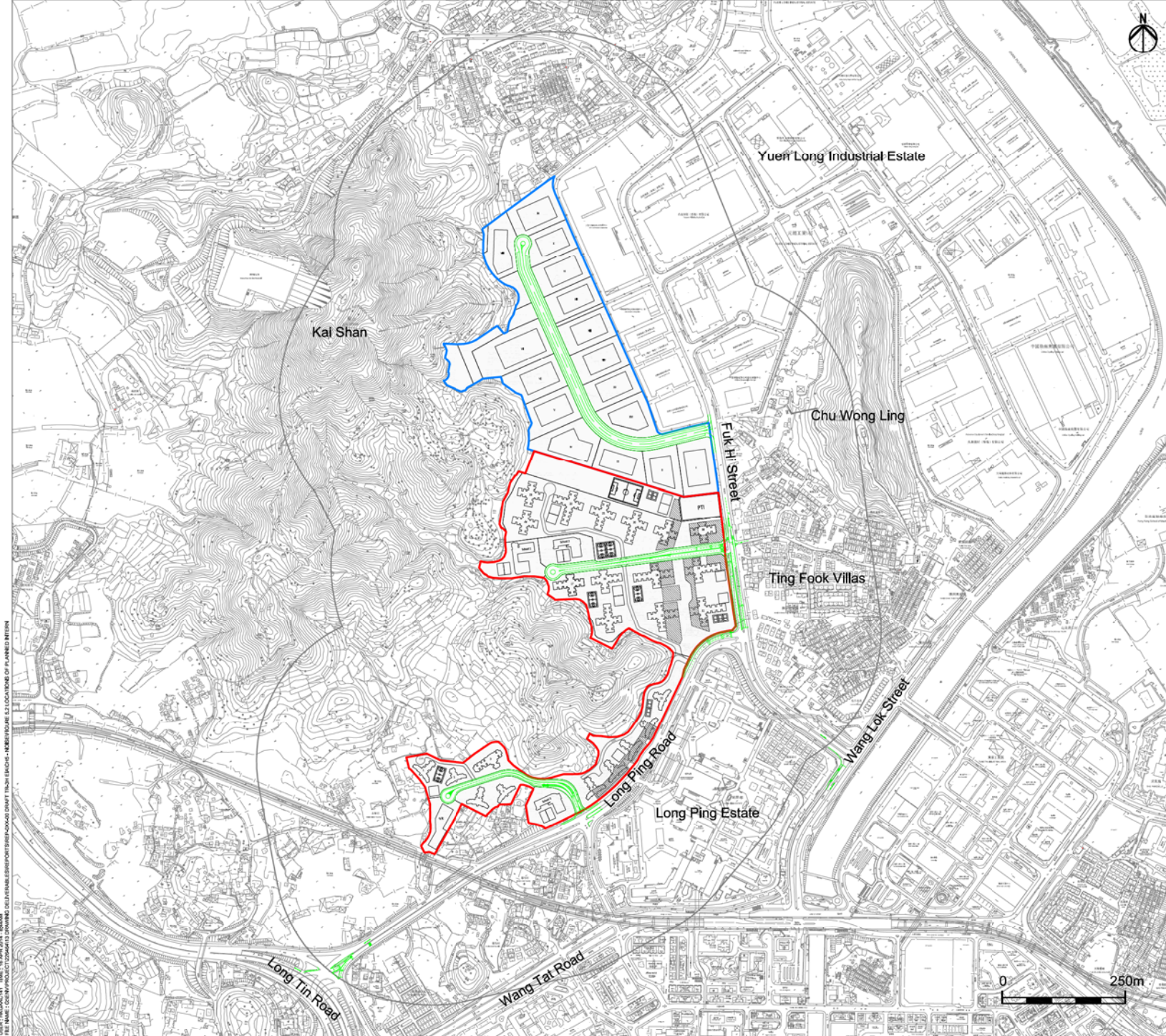
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HONG KONG HOUSING AUTHORITY









- Legend**
- 300m Assessment Area
  - Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Planned Road and Road Improvement Works

Remarks: Isolated industrial operations scattered in the vicinity of Wang Chau area.

Rev	Description	GL	11/13
By	Date		
A	FIRST ISSUE	GL	11/13

Consultant

# ARUP

Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

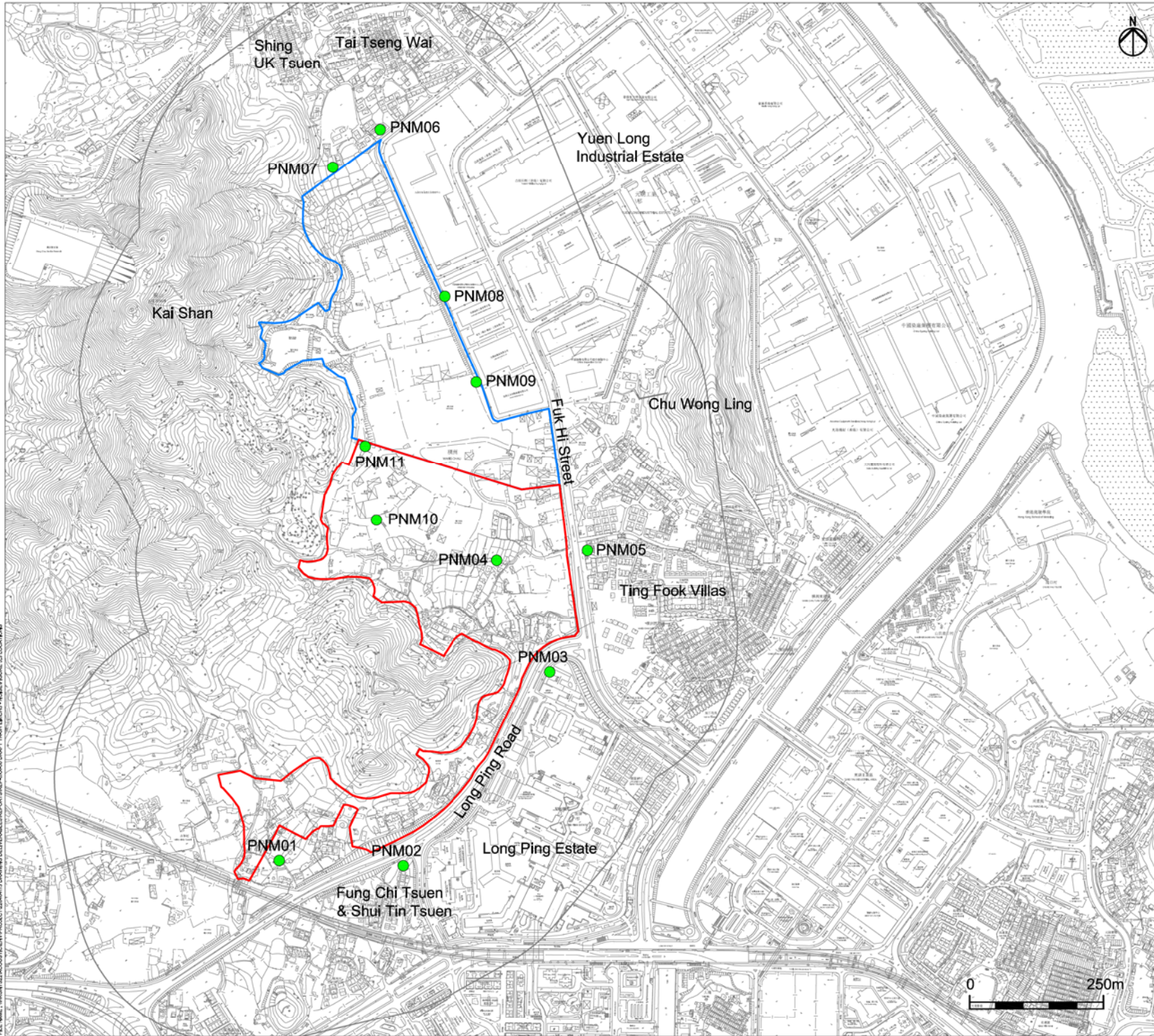
Drawing title  
**Locations of Planned Internal Road and Road Improvement Works outside Site Boundary**

Drawing no.		Figure 5.2		Rev.	
Drawn	Date	Checked	Approved	IL	ST
GL	11/13	IL	ST		
Scale		AS SHOWN		PRELIMINARY	
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 DATE: 11/13





- Legend**
- 300m Assessment Area
  - Public Housing Site (PH SITE)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Prevailing Noise Measurement Location



A	FIRST ISSUE	GL	11/13
Rev	Description	By	Date
Consultant			

**ARUP**

**Project title**  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

**Drawing title**  
 Locations of Prevalling Noise Measurements

Drawing no.	Figure 5.3			Rev.	A
Drawn	GL	Date	11/13	Checked	IL
				Approved	ST
Scale	AS SHOWN		Status	PRELIMINARY	
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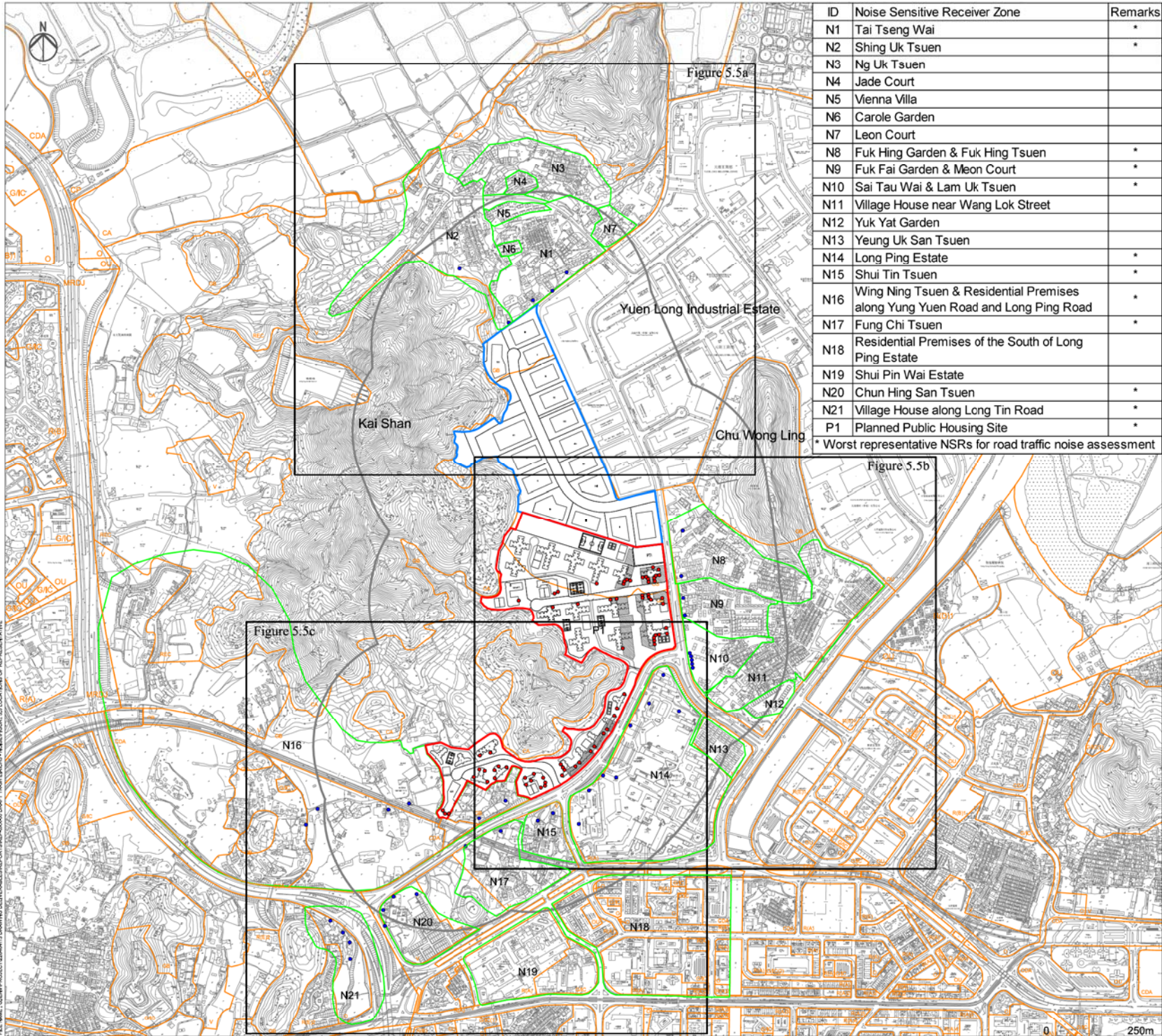


USER: PROJ0000141 TIME: 13 NOV 2013 4:18PM  
 FILE NAME: \\HONGKONG\PROJ0000141\DRAWING\DELIVERABLES\PORTFOLIO\00000000.DWG TITILE: ECHOIC - HONGKONG P.03 LOC: 10000









ID	Noise Sensitive Receiver Zone	Remarks
N1	Tai Tseng Wai	*
N2	Shing Uk Tsuen	*
N3	Ng Uk Tsuen	
N4	Jade Court	
N5	Vienna Villa	
N6	Carole Garden	
N7	Leon Court	
N8	Fuk Hing Garden & Fuk Hing Tsuen	*
N9	Fuk Fai Garden & Meon Court	*
N10	Sai Tau Wai & Lam Uk Tsuen	*
N11	Village House near Wang Lok Street	
N12	Yuk Yat Garden	
N13	Yeung Uk San Tsuen	
N14	Long Ping Estate	*
N15	Shui Tin Tsuen	*
N16	Wing Ning Tsuen & Residential Premises along Yung Yuen Road and Long Ping Road	*
N17	Fung Chi Tsuen	*
N18	Residential Premises of the South of Long Ping Estate	
N19	Shui Pin Wai Estate	
N20	Chun Hing San Tsuen	*
N21	Village House along Long Tin Road	*
P1	Planned Public Housing Site	*

\* Worst representative NSRs for road traffic noise assessment

Legend	
	Public Housing Site (PH Site)
	Yuen Long Industrial Estate Extension (YLIEE Site)
	300m Assessment Area
	Noise Sensitive Receiver Zone
	AGR Agriculture
	CA Conservation Area
	CDA Comprehensive Development Area
	G/IC Government/ Institution/ Community
	GB Green Belt
	MRDJ Road
	O Open Space
	OS Open Storage
	OU Other Specified Used
	R(A) Residential (A)
	R(B) Residential (B)
	R(D) Residential (D)
	R(E) Residential (E)
	REC Recreation
	U Undetermined
	V Village Type Development
	Existing Noise Assessment Point
	Planned Noise Assessment Point

A	FIRST ISSUE	GL	11/13
Rev	Description	By	Date

Consultant **ARUP**

Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Locations of Representative Noise Assessment Points (Road Traffic Noise)

Drawing no.	Figure 5.5	Rev.	A
Drawn	GL	Date	11/13
Checked	IL	Approved	ST
Scale	AS SHOWN	Status	PRELIMINARY

USER: CHONGKAC141 TIME: 14 NOV 2013 10:27 AM  
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 PLOT: 1/10/13  
 PLOT: 1/10/13

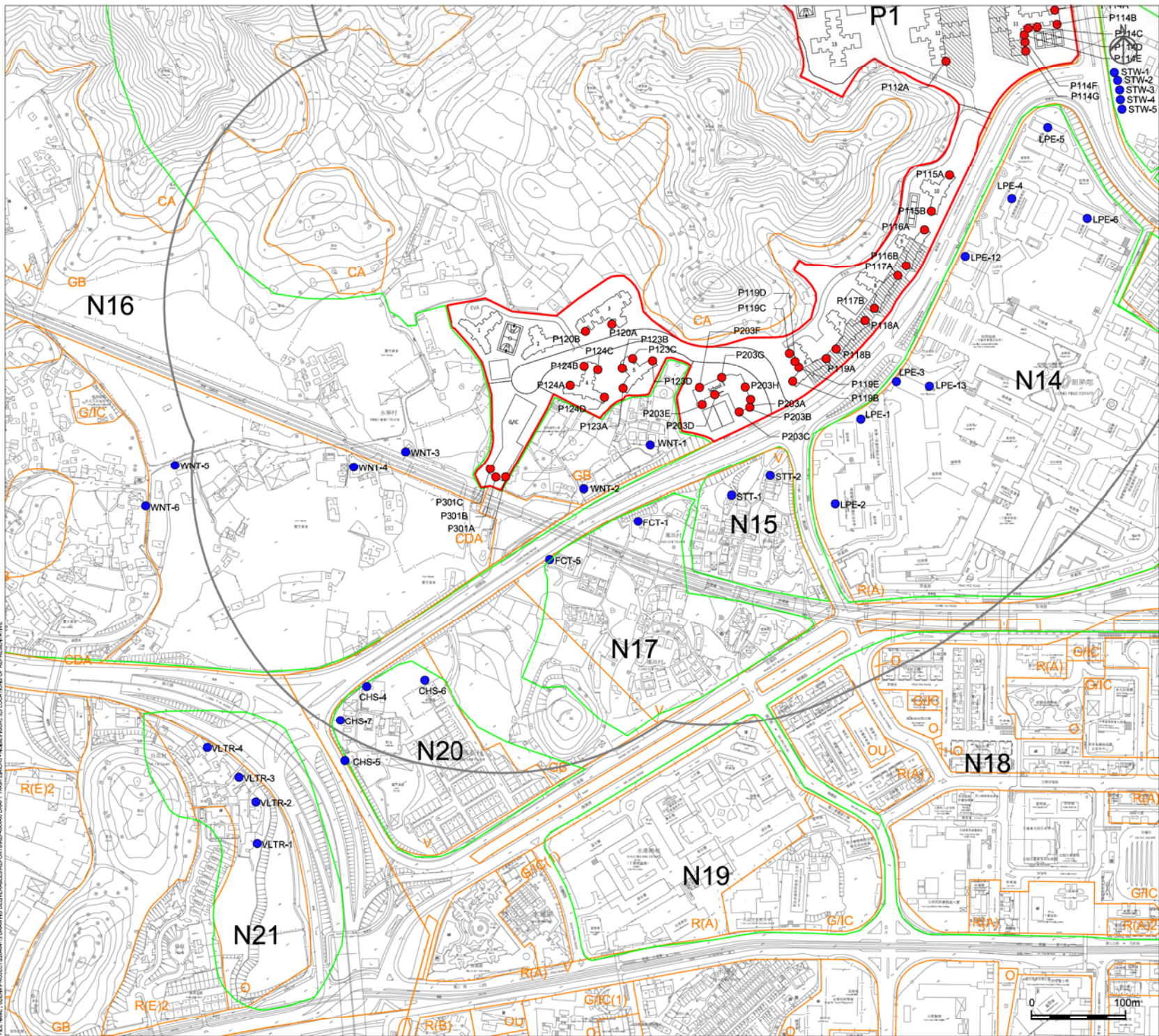












- Legend**
- Public House Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - 300m Assessment Area
  - Existing Noise Assessment Point
  - Planned Noise Assessment Point
  - Noise Sensitive Receiver Zone
  - CA Conservation Area
  - CDA Comprehensive Development Area
  - G/I/C Government/ Institution/ Community
  - GB Green Belt
  - O Open Space
  - OU Other Specified Used
  - R(A) Residential (A)
  - R(B) Residential (B)
  - R(E) Residential (E)
  - V Village Type Development

A	FIRST ISSUE	GL	11/13
Rev	Description	By	Date
Consultant			

**ARUP**

Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

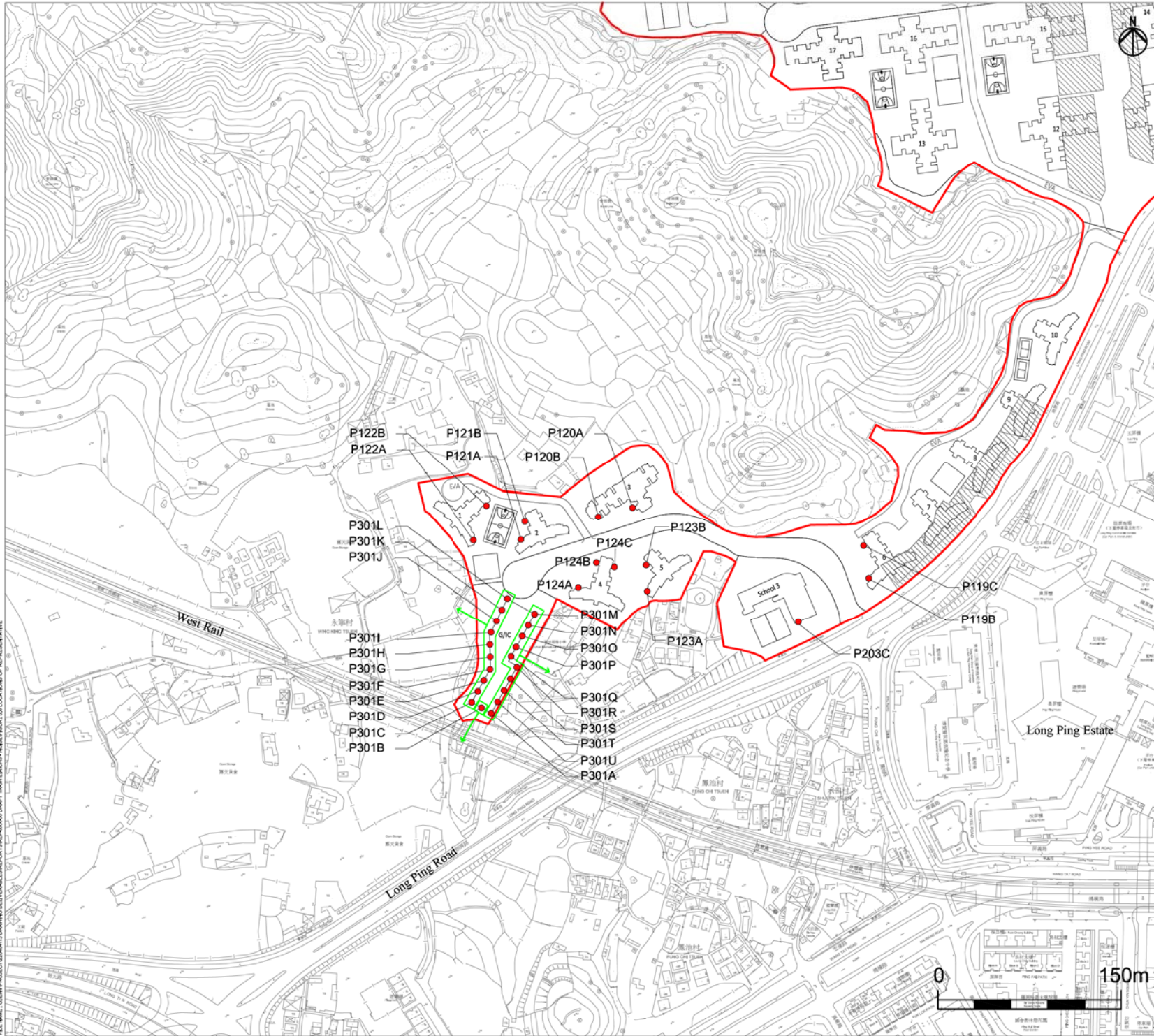
Drawing title  
 Locations of Representative Noise Assessment Points (Road Traffic Noise)

Drawing no.	Figure 5.5c			Rev.	A
Drawn	GL	Date	11/13	Checked	IL
Scale	AS SHOWN		Status	PRELIMINARY	
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USER: PHOENIX/141 TIME: 14 NOV 2013 - 10:24AM  
 FILE NAME: C:\G:\PROJECT\20120293\DRAWING\COLL\MAPS\REP\NOISE\PHOENIX\0505.DWG TITAN I/O/AS - HONGKONG/141 LOCATIONS OF REPRESENTATIVE





- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Noise Assessment Point
  - ➔ Facade Facing

Rev	Description	By	Date
A	FIRST ISSUE	GL	11/13

Consultant

**ARUP**

Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Locations of Representative Noise Assessment Points (Railway Noise)

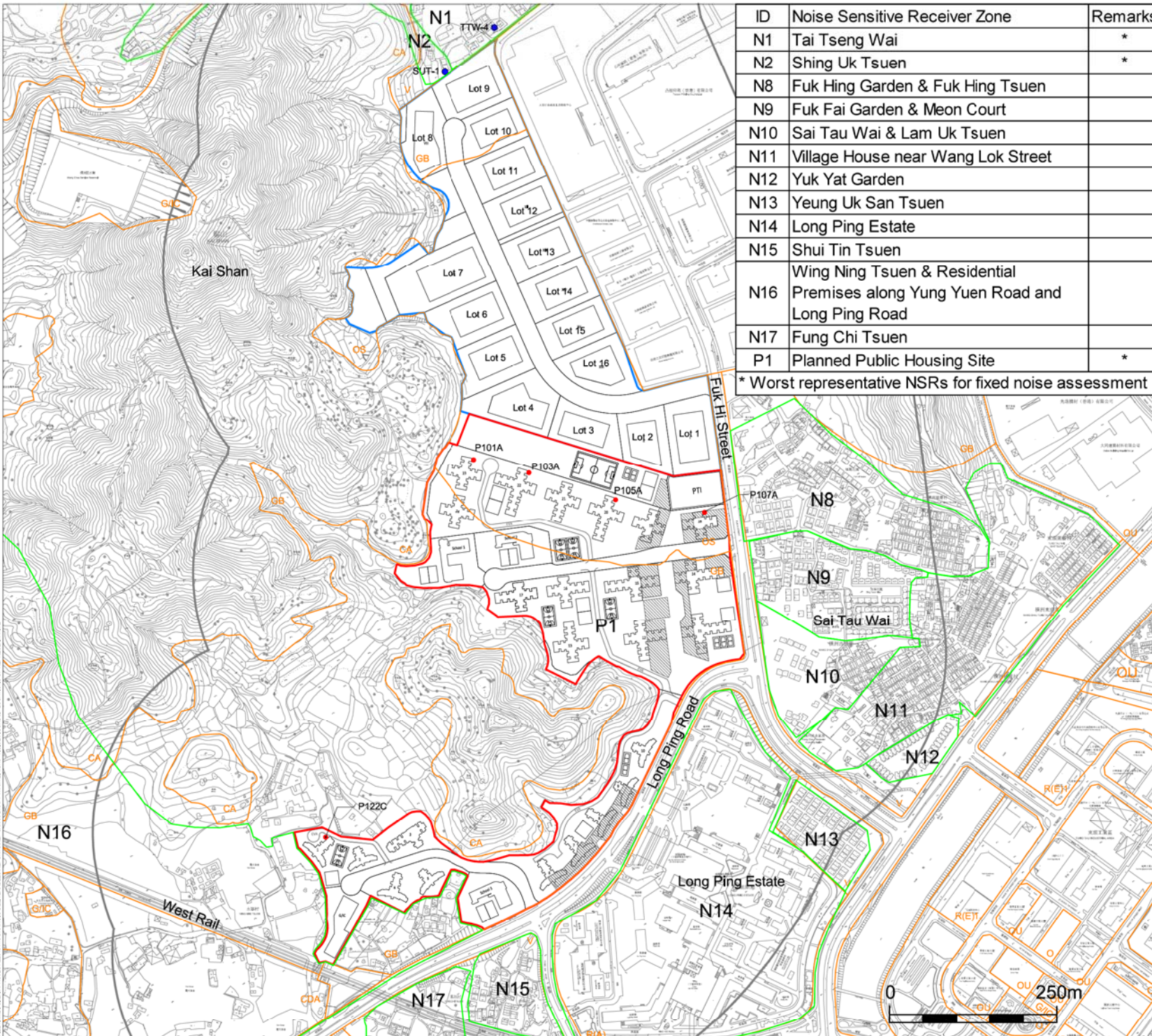
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Drawn	GL	Date	11/13
Checked	IL	Approved	ST
Scale	AS SHOWN	Status	PRELIMINARY

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ID	Noise Sensitive Receiver Zone	Remarks
N1	Tai Tseng Wai	*
N2	Shing Uk Tsuen	*
N8	Fuk Hing Garden & Fuk Hing Tsuen	
N9	Fuk Fai Garden & Meon Court	
N10	Sai Tau Wai & Lam Uk Tsuen	
N11	Village House near Wang Lok Street	
N12	Yuk Yat Garden	
N13	Yeung Uk San Tsuen	
N14	Long Ping Estate	
N15	Shui Tin Tsuen	
N16	Wing Ning Tsuen & Residential Premises along Yung Yuen Road and Long Ping Road	
N17	Fung Chi Tsuen	
P1	Planned Public Housing Site	*

\* Worst representative NSRs for fixed noise assessment

Legend	
	Public House Site (PH Site)
	Yuen Long Industrial Estate Extension (YLIEE Site)
	300m Assessment Area
	Noise Sensitive Receiver Zone
	Existing Noise Assessment Point
	Planned Noise Assessment Point
	AGR Agriculture
	CA Conservation Area
	G/IC Government/ Institution/ Community
	GB Green Belt
	OU Other Specified Used
	R(D) Residential (D)
	U Undetermined
	V Village Type Development
	OS Open Storage
	CDA Comprehensive Development Area
	R(E) Residential (Group E)
	MRDJ Road

Rev	Description	By	Date
A	FIRST ISSUE	GL	11/13



Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Locations of Representative Noise Assessment Point (Fixed Noise)

Drawing no.	Figure 5.7	Rev.	A
Drawn	GL	Date	11/13
Checked	IL	Approved	ST
Scale	AS SHOWN	Status	PRELIMINARY



USER: PROGMAC141 TIME: 14 NOV 2013 10:58AM  
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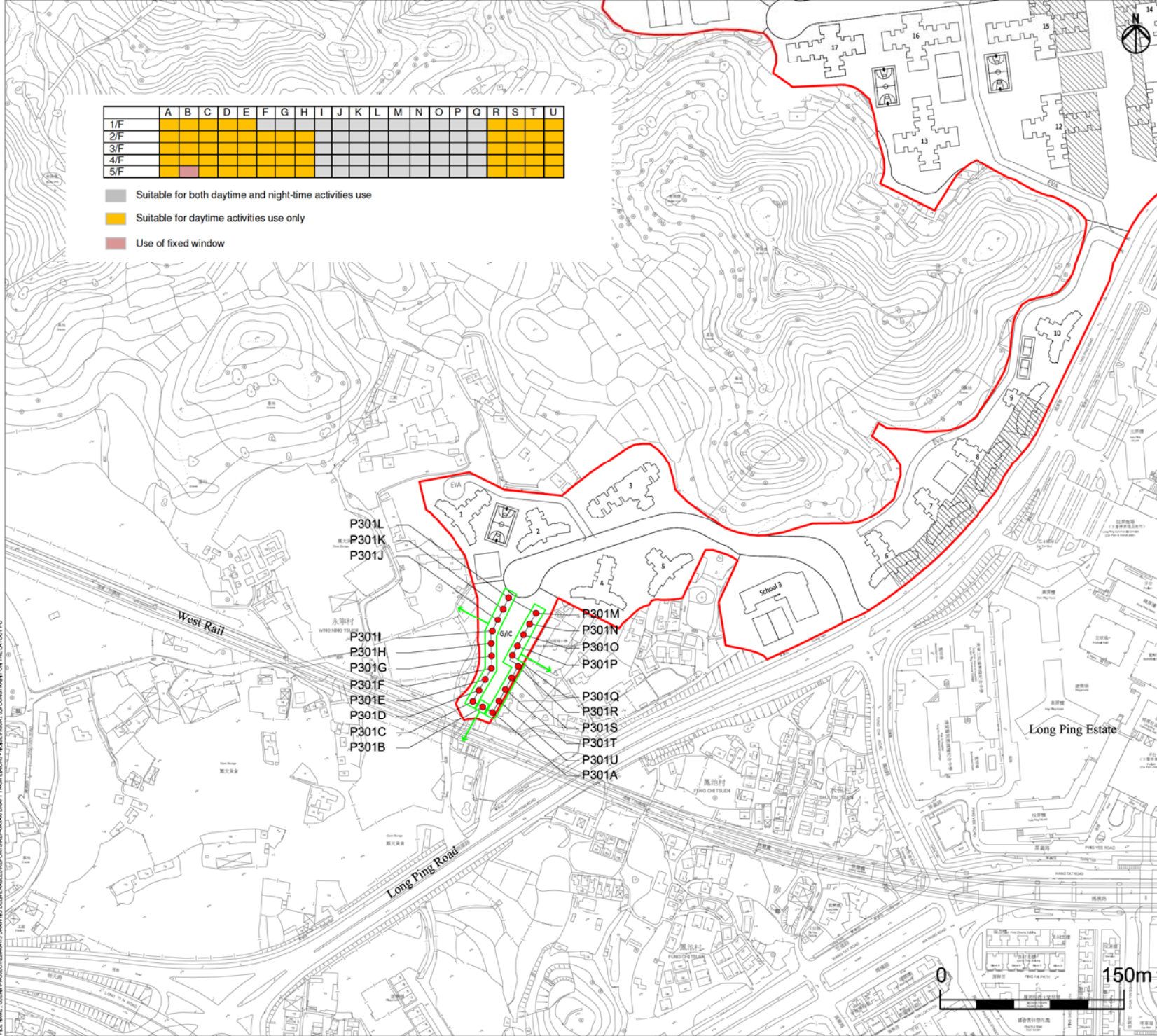


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	
1/F																						
2/F																						
3/F																						
4/F																						
5/F																						

- Suitable for both daytime and night-time activities use
- Suitable for daytime activities use only
- Use of fixed window



- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Noise Assessment Point
  - Facade Facing



P301L  
P301K  
P301J

P301I  
P301H  
P301G  
P301F  
P301E  
P301D  
P301C  
P301B

P301M  
P301N  
P301O  
P301P  
P301Q  
P301R  
P301S  
P301T  
P301U  
P301A

A	FIRST ISSUE	GL	11/13
Rev	Description	By	Date

Consultant

# ARUP

Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Constraint on the Layout for ISWB (Railway Noise)

Drawing no.	Figure 5.9	Rev.	A
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Drawn	GL	Date	11/13	Checked	IL	Approved	ST
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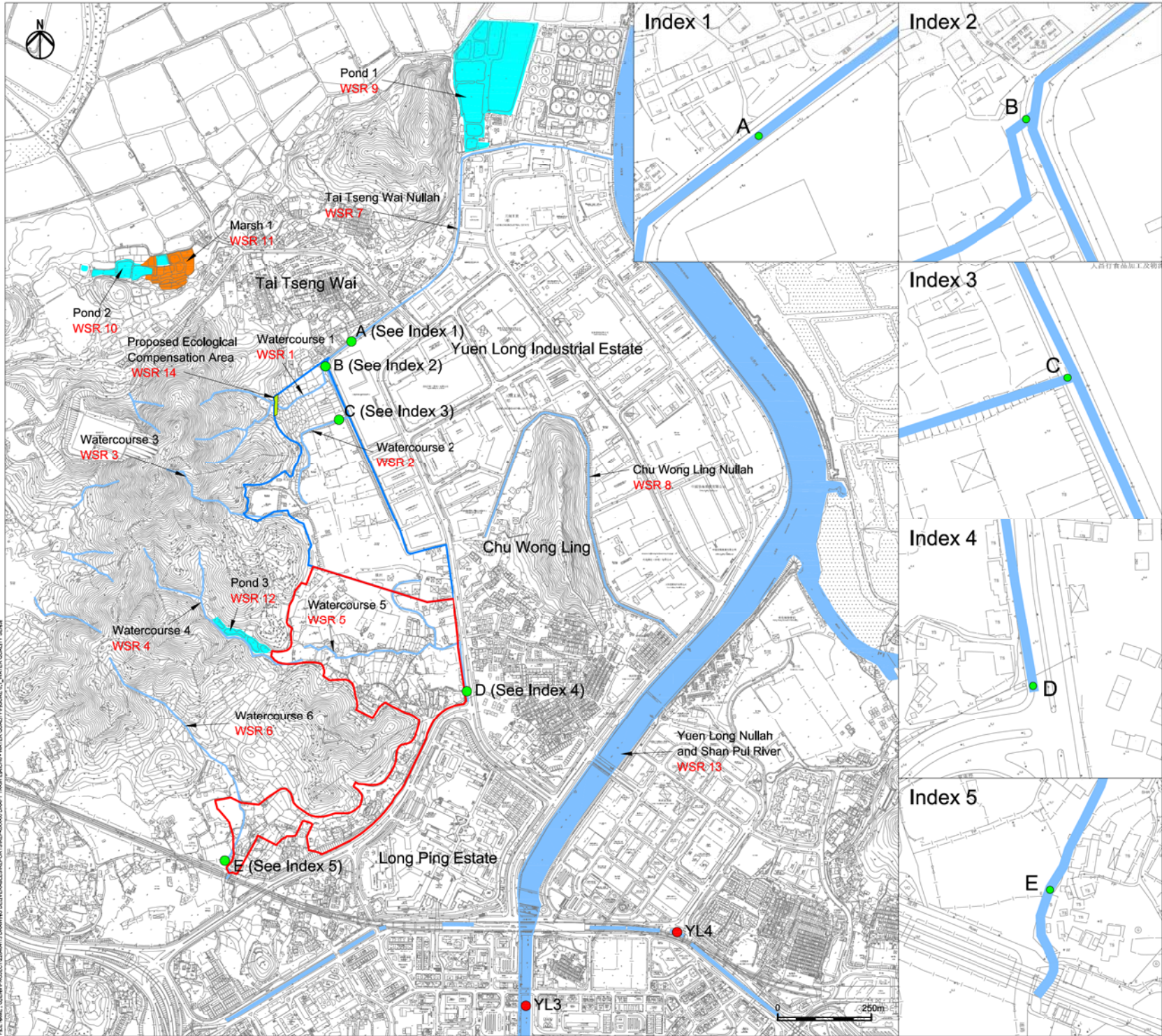


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USER: 2903042141 TIME: 27 JAN 2014 1:02:54M  
 FILE NAME: C:\G:\PROJECT\20140113 DRAWING\COLL\VIEW\SPRINT\PRINT\SPRINT\SPRINT\WATER QUALITY\FIGURE 6.1 WATER QUALITY SCENE

Index 1

Index 2

Index 3

Index 4

Index 5

- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - EPD River Water Quality Monitoring Station
  - Additional Water Quality Monitoring Station
  - Pond
  - Marsh
  - Watercourse
  - Proposed Ecological Compensation Area

B	SECOND ISSUE	GL	01/14
A	FIRST ISSUE	GL	11/13
Rev	Description	By	Date
Consultant			

**ARUP**

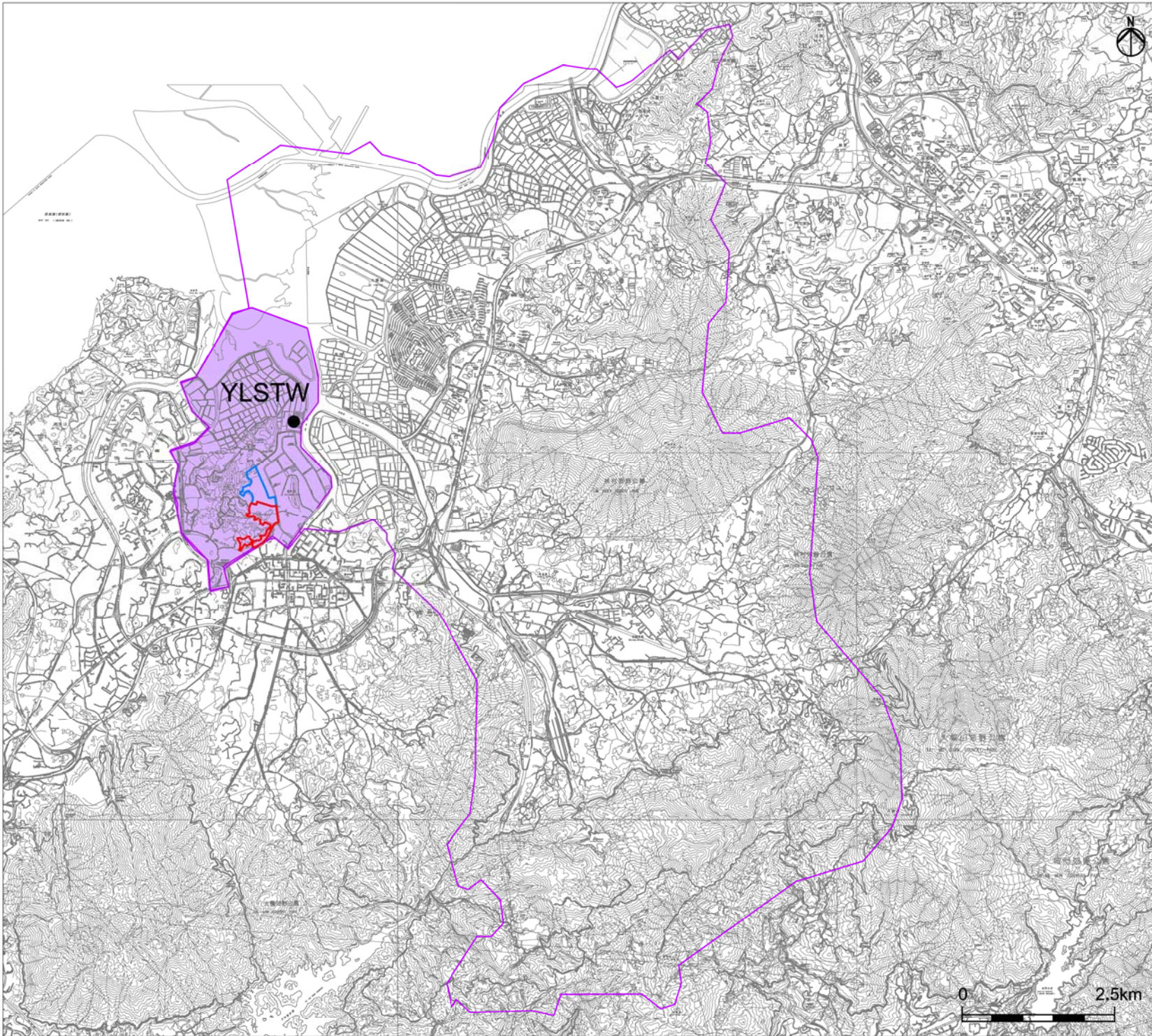
Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Water Sensitive Receivers

Drawing no.	Figure 6.1		Rev.	B			
Drawn	GL	Date	01/14	Checked	IL	Approved	ST
Scale	1:10000 (A3)		Status	PRELIMINARY			
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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - 2002 Yuen Long Sewerage Catchment
  - 2016 Yuen Long Sewerage Catchment
  - Existing Sewage Treatment Works (STW)

A	FIRST ISSUE	GL	11/13
Rev	Description	By	Date

Consultant

# ARUP

Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
**General Layout of Yuen Long Sewerage Catchment and Location of YLSTW**

Drawing no.	Figure 7.1			Rev.	A
Drawn	GL	Date	11/13	Checked	IL
Scale	AS SHOWN		Status	PRELIMINARY	

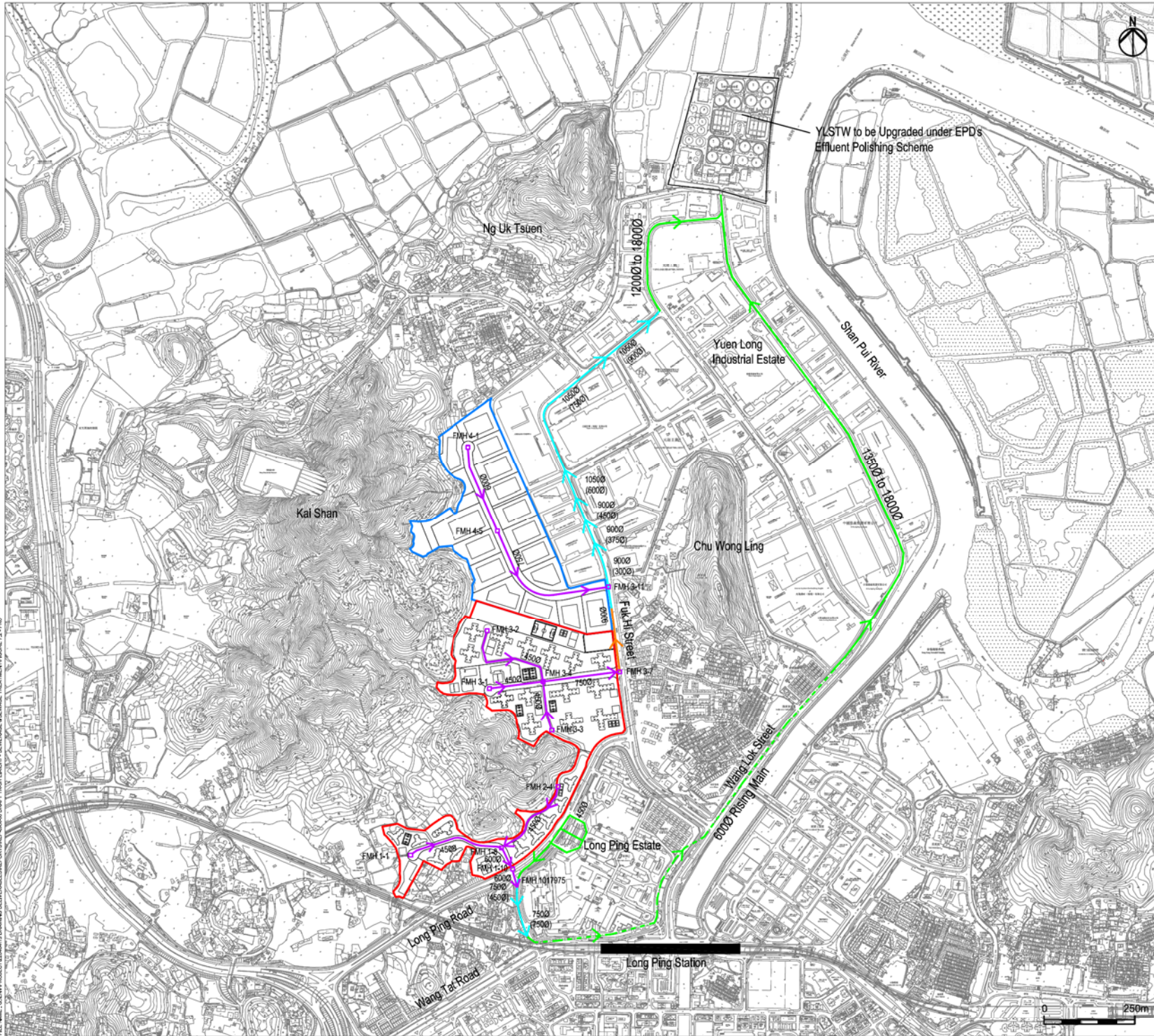
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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Existing Sewerage to remain
  - Existing Rising Main
  - ↔ Existing DN450 Sewerage to be upgraded to DN900/reconstructed
  - ↔ Proposed Offsite Sewerage
  - ↔ Proposed Onsite Sewerage

A	FIRST ISSUE	GL	11/13
Rev	Description	By	Date

Consultant

**ARUP**

Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

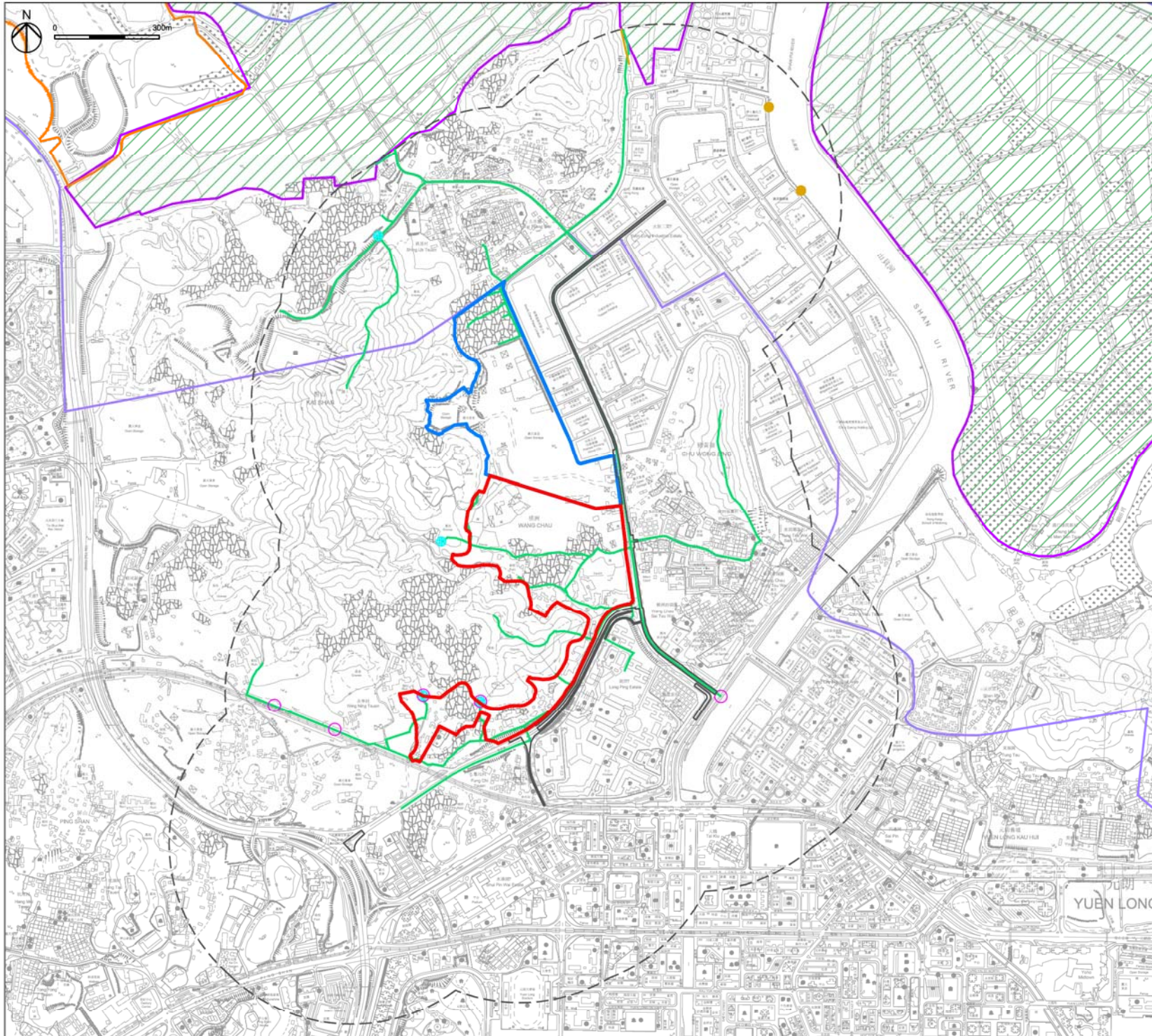
Drawing title  
 Proposed Sewerage Layout

Drawing no.	Figure 7.2			Rev.	A
Drawn	GL	Date	11/13	Checked	IL
Scale	AS SHOWN		Status	PRELIMINARY	
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- Legend**
- PH Site
  - YLIEE Site
  - Temporary Works Area Boundary
  - Survey Area
  - Mai Po Inner Deep Bay Ramsar Site
  - Wetland Conservation Area
  - Wetland Buffer Area
  - Hong Kong Wetland Park Special Area
  - Deep Bay Wetland outside Ramsar Site Priority Site for Enhanced Conservation
  - Transect (surveys conducted during December 2013 to August 2013)
  - Faunal Point Count Location (except amphibian)
  - Amphibian Point Count Location
  - Transect for Bird Surveys Conducted During November 2013 to February 2014
  - Bird Survey Point Count Location During November 2013 to February 2014

C	THIRD ISSUE	JH	03/14
B	SECOND ISSUE	EW	12/12
A	FIRST ISSUE	EW	10/12
Rev	Description	By	Date

Consultant

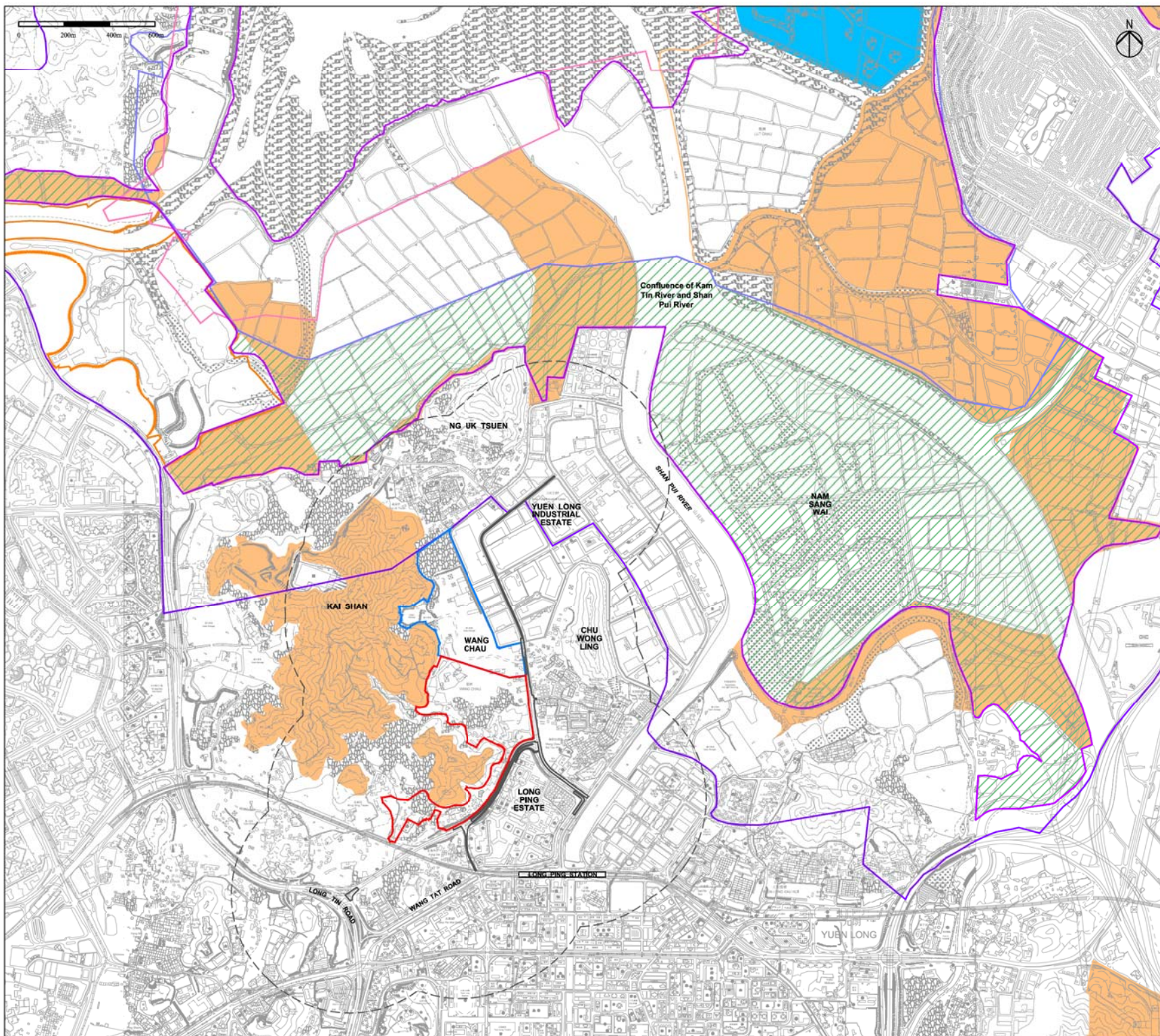
# ARUP

Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Transect route and point count locations of the faunal surveys within the Survey Area

Drawing no.		Figure 8.1		Rev.	B
Drawn	Date	Checked	Approved		
JH	03/14	MRL	ST		
Scale		Status			
AS SHOWN		PRELIMINARY			
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- Legend:
- PH Site
  - YLIEE Site
  - Temporary Works Area Boundary
  - Survey Area
  - Mai Po Inner Deep Bay Ramsar Site
  - Wetland Conservation Area
  - Wetland Buffer Area
  - Mai Po Marshes SSSI
  - Inner Deep Bay SSSI
  - Hong Kong Wetland Park Special Area
  - Mai Po Nature Reserve
  - Conservation Area
  - Deep Bay Wetland outside Ramsar Site Priority Site for Enhanced Conservation

E	FIFTH ISSUE	JH	03/14
D	FOURTH ISSUE	JH	02/14
C	THIRD ISSUE	JH	01/14
B	SECOND ISSUE	EW	12/12
A	FIRST ISSUE	EW	10/12
Rev	Description	By	Date

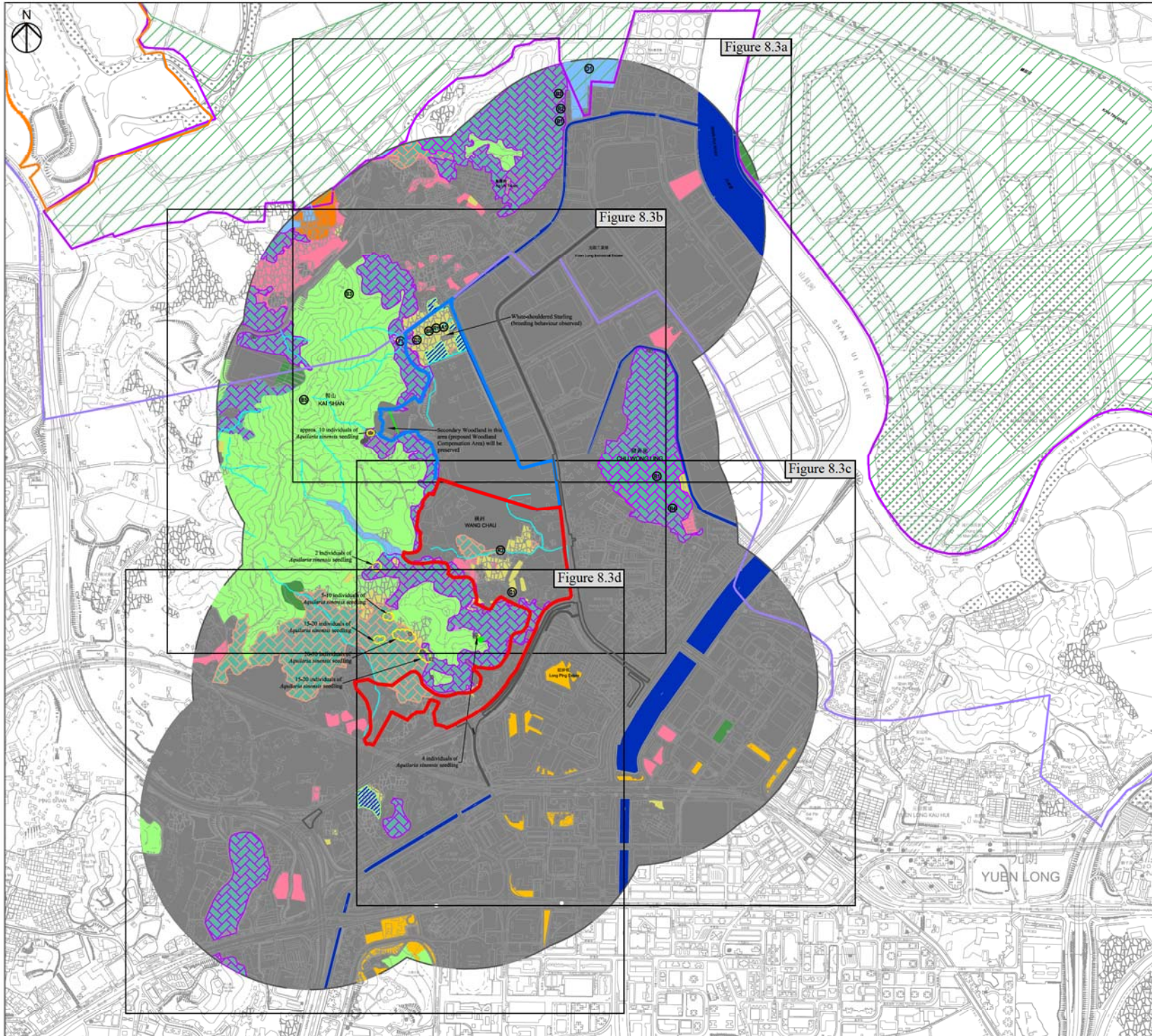
Consultant  
**ARUP**

Project title  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
Project Area, Survey Area and the sites of conservation significance in the surrounding area

Drawing no.	Figure 8.2	Rev.	E
Drawn	JH	Date	03/14
Checked	MRL	Approved	ST
Scale	AS SHOWN	Status	PRELIMINARY





- Legend**
- PH Site
  - YLIEE Site
  - Temporary Works Area Boundary
  - Survey Area
  - Wetland Conservation Area
  - Wetland Buffer Area
  - Hong Kong Wetland Park Special Area
  - Deep Bay Wetland outside Ramsar Site
  - Priority Site for Enhanced Conservation
  - Pond
  - Marsh
  - Minor Watercourse
  - Major Channelised Watercourse
  - Agricultural Land
  - Seasonally Wet Grassland
  - Grassland
  - Secondary Woodland
  - Orchard
  - Plantation
  - Landscaped Area
  - Wasteland
  - Developed Area
- Plant**
- Aquilaria sinensis* (tree)
  - Aquilaria sinensis* (seedling)
  - Camellia oleifera*
  - Rhododendron simsii*
- Reptile**
- Reeve's Terrapin
  - Common Rat Snake
- Amphibian**
- Chinese Bullfrog
- Butterfly**
- Common Awl
  - Colon Swift
  - Pale Palm Dart
  - Forget-me-not
  - Peacock Royal
  - Common Yellow Swallowtail
- Dragonfly**
- Ruby Darter
  - Scarlet Basker
- Aquatic Fauna**
- Small Snakehead
  - Nanhaipotamon hongkongense*

C	THIRD ISSUE	JH	03/14
B	SECOND ISSUE	EW	12/12
A	FIRST ISSUE	EW	10/12
Rev	Description	By	Date

Consultant

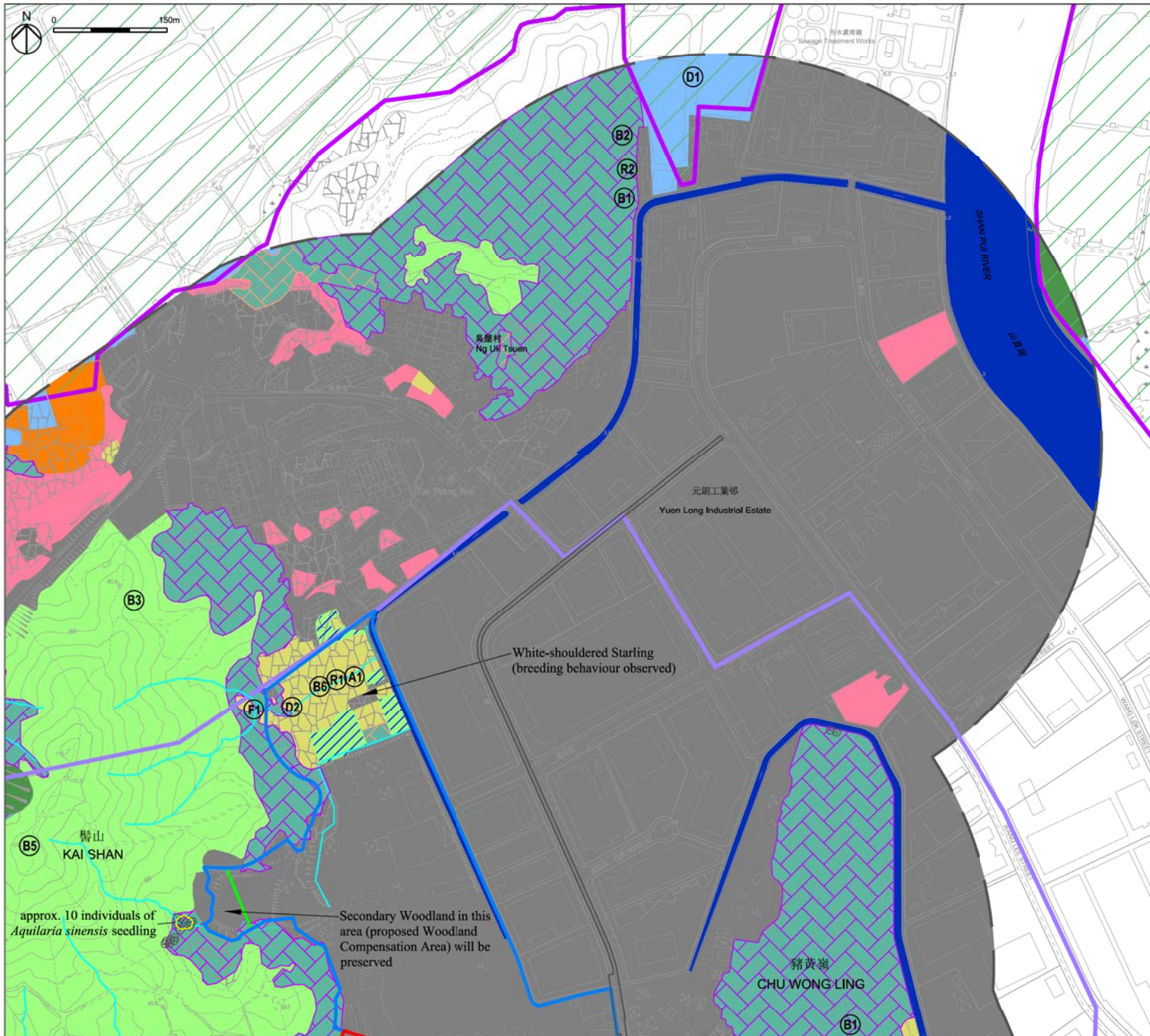
# ARUP

**Project title**  
 Agreement No. CB2012093  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

**Drawing title**  
 Habitat map and the locations of flora and non-avifauna species of conservation significance recorded during the present study within the Survey Area

Drawing no.		Figure 8.3		Rev.	C
Drawn	Date	Checked	Approved		
JH	03/14	MRL	ST		
Scale		Status			
AS SHOWN		PRELIMINARY			





- Legend**
- PH Site
  - YLIEE Site
  - Temporary Works Area Boundary
  - Survey Area
  - Wetland Conservation Area
  - Wetland Buffer Area
  - Hong Kong Wetland Park Special Area
  - Deep Bay Wetland outside Ramsar Site Priority Site for Enhanced Conservation
  - Pond
  - Marsh
  - Minor Watercourse
  - Major Channelised Watercourse
  - Agricultural Land
  - Seasonally Wet Grassland
  - Grassland
  - Secondary Woodland
  - Orchard
  - Plantation
  - Landscaped Area
  - Wasteland
  - Developed Area
- Plant**
- Aquilaria sinensis* (tree)
  - Aquilaria sinensis* (seedling)
  - Camellia oleifera*
  - Rhododendron sinzisi*
- Reptile**
- Reeve's Terrapin
  - Common Rat Snake
- Amphibian**
- Chinese Bullfrog
- Butterfly**
- Common Awl
  - Colon Swift
  - Pale Palm Dart
  - Forget-me-not
  - Peacock Royal
  - Common Yellow Swallowtail
- Dragonfly**
- Ruby Darter
  - Scarlet Basker
- Aquatic Fauna**
- Small Snakehead
  - Nanhaiptamon hongkongense*

Rev	Description	By	Date
C	THIRD ISSUE	JH	03/14
B	SECOND ISSUE	EW	12/12
A	FIRST ISSUE	EW	10/12

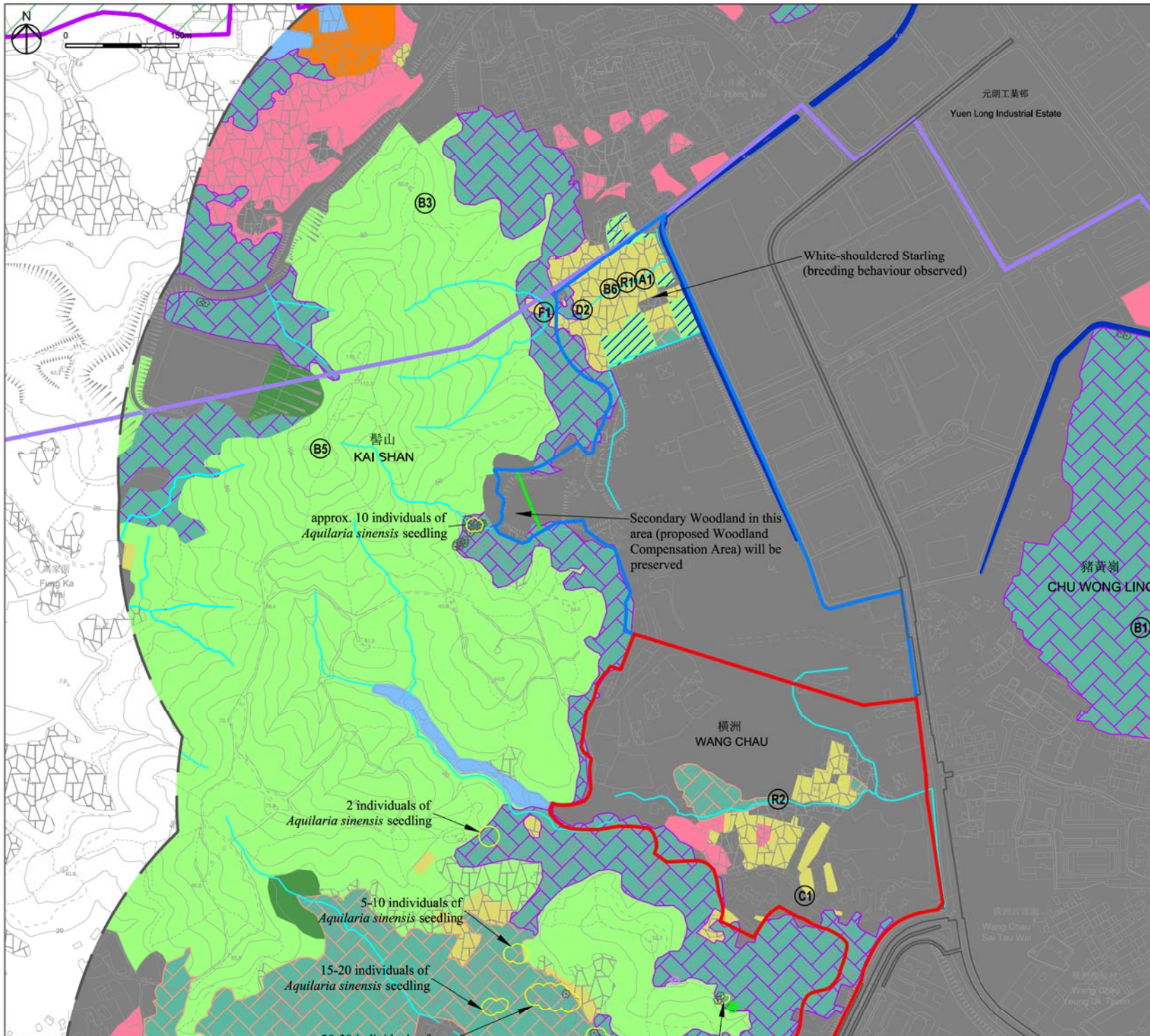
Consultant  
**ARUP**

Project title  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
Habitat map and the locations of flora and non-avifauna species of conservation significance recorded during the present study within the Survey Area

Drawing no.		Figure 8.3a		Rev.	
Drawn	Date	Checked	Approved		
JH	03/14	MRL	ST		
Scale		Status			
AS SHOWN		PRELIMINARY			





- Legend**
- PH Site
  - YLIEE Site
  - Temporary Works Area Boundary
  - Survey Area
  - Wetland Conservation Area
  - Wetland Buffer Area
  - Hong Kong Wetland Park Special Area
  - Deep Bay Wetland outside Ramsar Site Priority Site for Enhanced Conservation
  - Pond
  - Marsh
  - Minor Watercourse
  - Major Channelised Watercourse
  - Agricultural Land
  - Seasonally Wet Grassland
  - Grassland
  - Secondary Woodland
  - Orchard
  - Plantation
  - Landscaped Area
  - Wasteland
  - Developed Area
- Plant**
- Aquilaria sinensis* (tree)
  - Aquilaria sinensis* (seedling)
  - Camellia oleifera*
  - Rhododendron simsii*
- Reptile**
- Reeve's Terrapin
  - Common Rat Snake
- Amphibian**
- Chinese Bullfrog
- Butterfly**
- Common Awl
  - Colon Swift
  - Pale Palm Dart
  - Forget-me-not
  - Peacock Royal
  - Common Yellow Swallowtail
- Dragonfly**
- Ruby Darter
  - Scarlet Basker
- Aquatic Fauna**
- Small Snakehead
  - Nanhaipotamon hongkongense*

Rev	Description	By	Date
C	THIRD ISSUE	JH	03/14
B	SECOND ISSUE	EW	12/12
A	FIRST ISSUE	EW	10/12

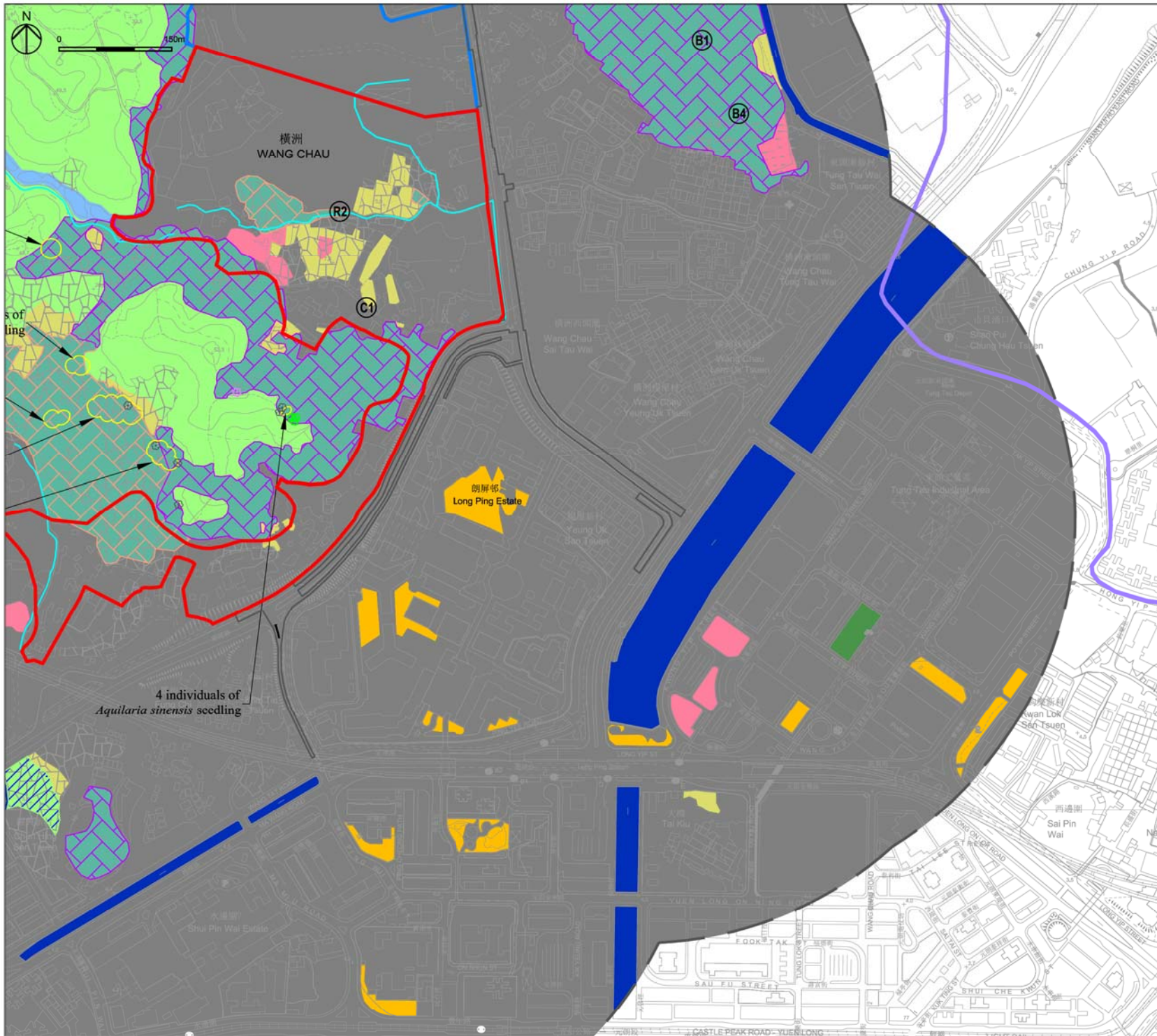
Consultant  
**ARUP**

**Project title**  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

**Drawing title**  
Habitat map and the locations of flora and non-avifauna species of conservation significance recorded during the present study within the Survey Area

Drawing no.		Figure 8.3b		Rev.	
Drawn	JH	Date	03/14	Checked	MRL
Scale	AS SHOWN	Status	PRELIMINARY	Approved	ST





- Legend**
- PH Site
  - YLIEE Site
  - Temporary Works Area Boundary
  - Survey Area
  - Wetland Conservation Area
  - Wetland Buffer Area
  - Hong Kong Wetland Park Special Area
  - Deep Bay Wetland outside Ramsar Site Priority Site for Enhanced Conservation
  - Pond
  - Marsh
  - Minor Watercourse
  - Major Channelised Watercourse
  - Agricultural Land
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  - Grassland
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  - Orchard
  - Plantation
  - Landscaped Area
  - Wasteland
  - Developed Area
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  - Aquilaria sinensis* (seedling)
  - Camellia oleifera*
  - Rhododendron simsii*
- Reptile**
- Reeve's Terrapin
  - Common Rat Snake
- Amphibian**
- Chinese Bullfrog
- Butterfly**
- Common Awl
  - Colon Swift
  - Pale Palm Dart
  - Ruby Darter
  - Scarlet Basker
  - Forget-me-not
  - Peacock Royal
  - Common Yellow Swallowtail
- Dragonfly**
- Ruby Darter
  - Scarlet Basker
- Aquatic Fauna**
- Small Snakehead
  - Nanhaipotamon hongkongense*

4 individuals of *Aquilaria sinensis* seedling

C	THIRD ISSUE	JH	03/14
B	SECOND ISSUE	EW	12/12
A	FIRST ISSUE	EW	10/12
Rev	Description	By	Date

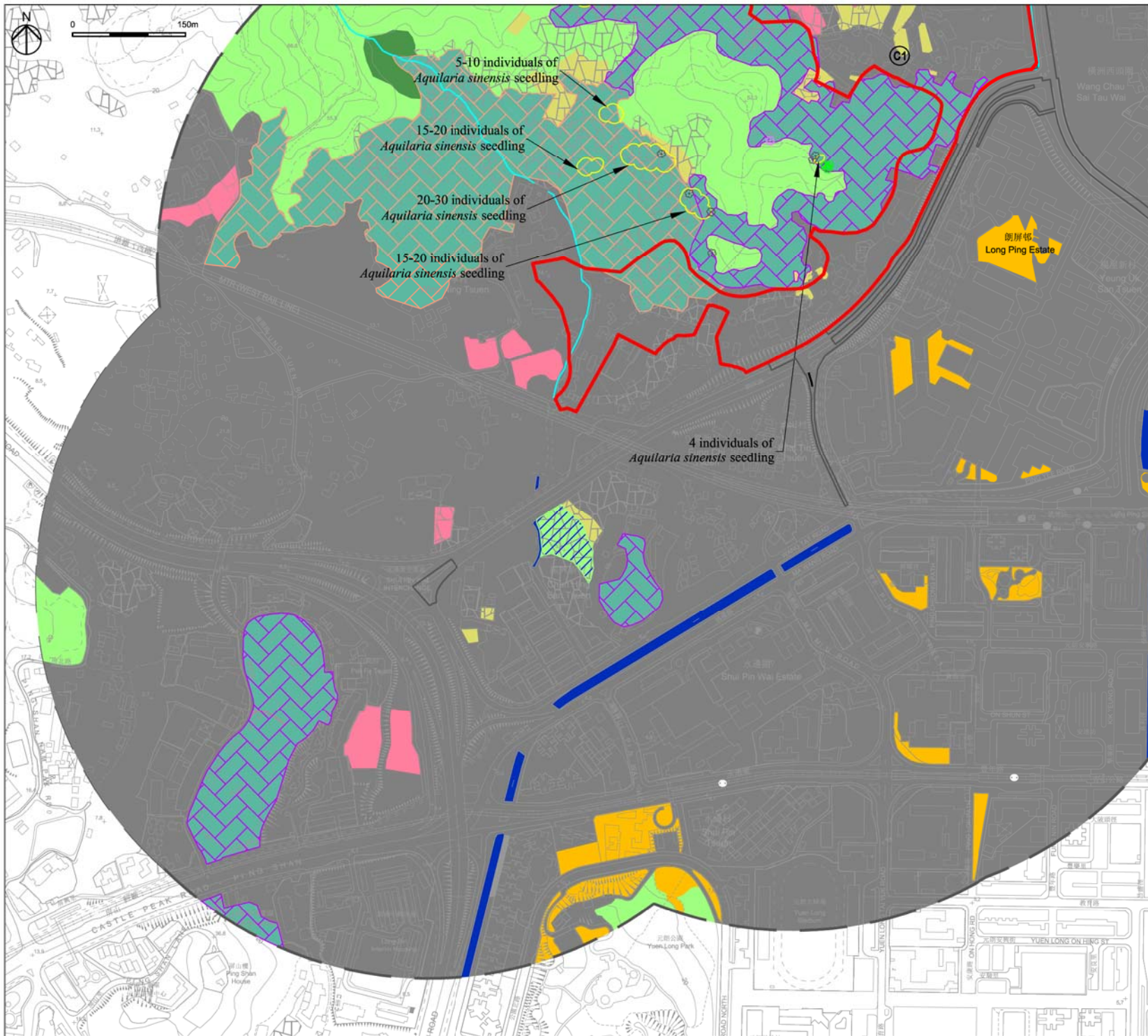
Consultant  
**ARUP**

Project title  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
Habitat map and the locations of flora and non-avifauna species of conservation significance recorded during the present study within the Survey Area

Drawing no.		Figure 8.3c		Rev.	C
Drawn	Date	Checked	Approved		
JH	03/14	MRL	ST		
Scale		Status			
AS SHOWN		PRELIMINARY			





- Legend**
- PH Site
  - YLIEE Site
  - Temporary Works Area Boundary
  - Survey Area
  - Wetland Conservation Area
  - Wetland Buffer Area
  - Hong Kong Wetland Park Special Area
  - Deep Bay Wetland outside Ramsar Site
  - Priority Site for Enhanced Conservation
  - Pond
  - Marsh
  - Minor Watercourse
  - Major Channelised Watercourse
  - Agricultural Land
  - Seasonally Wet Grassland
  - Grassland
  - Secondary Woodland
  - Orchard
  - Plantation
  - Landscaped Area
  - Wasteland
  - Developed Area
- Plant**
- Aquilaria sinensis* (tree)
  - Aquilaria sinensis* (seedling)
  - Camellia oleifera*
  - Rhododendron simsii*
- Reptile**
- Reeve's Terrapin
  - Common Rat Snake
- Amphibian**
- Chinese Bullfrog
- Butterfly**
- Common Awl
  - Colon Swift
  - Pale Palm Dart
  - Ruby Darter
  - Scarlet Basker
  - Forget-me-not
  - Peacock Royal
  - Common Yellow Swallowtail
- Dragonfly**
- Ruby Darter
  - Scarlet Basker
- Aquatic Fauna**
- Small Snakehead
  - Nanhaipotamon hongkongense*

C	THIRD ISSUE	JH	03/14
B	SECOND ISSUE	EW	12/12
A	FIRST ISSUE	EW	10/12
Rev	Description	By	Date

Consultant

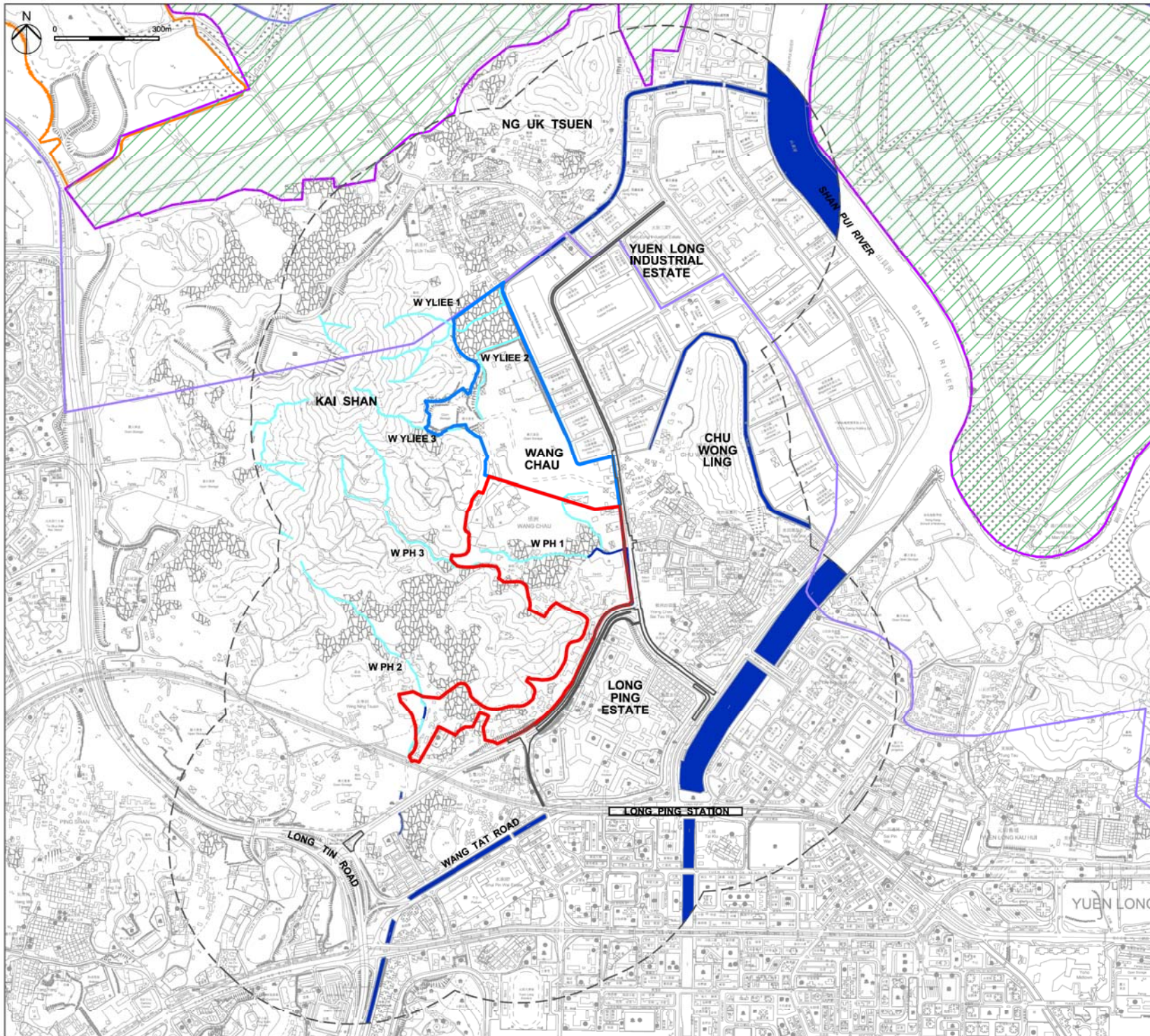
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Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Habitat map and the locations of flora and non-avifauna species of conservation significance recorded during the present study within the Survey Area

Drawing no.		Figure 8.3d		Rev. C	
Drawn	Date	Checked	Approved		
JH	03/14	MRL	ST		
Scale		Status			
AS SHOWN		PRELIMINARY			





- Legend**
- PH Site
  - YLIEE Site
  - Temporary Works Area Boundary
  - Survey Area
  - Mai Po Inner Deep Bay Ramsar Site
  - Wetland Conservation Area
  - Wetland Buffer Area
  - Hong Kong Wetland Park Special Area
  - Deep Bay Wetland outside Ramsar Site Priority Site for Enhanced Conservation
  - Watercourse with Concrete Banks and/or Beds
  - Watercourse with Natural Banks and/or Beds

C	THIRD ISSUE	JH	03/14
B	SECOND ISSUE	EW	12/12
A	FIRST ISSUE	EW	10/12
Rev	Description	By	Date

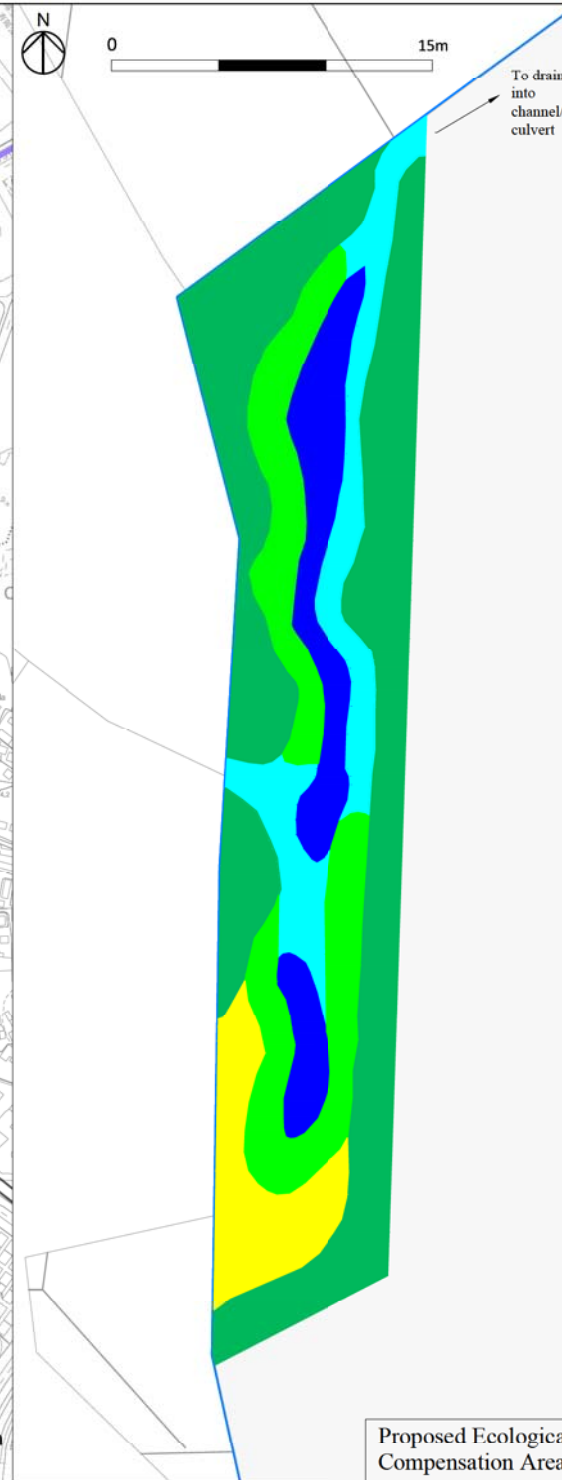
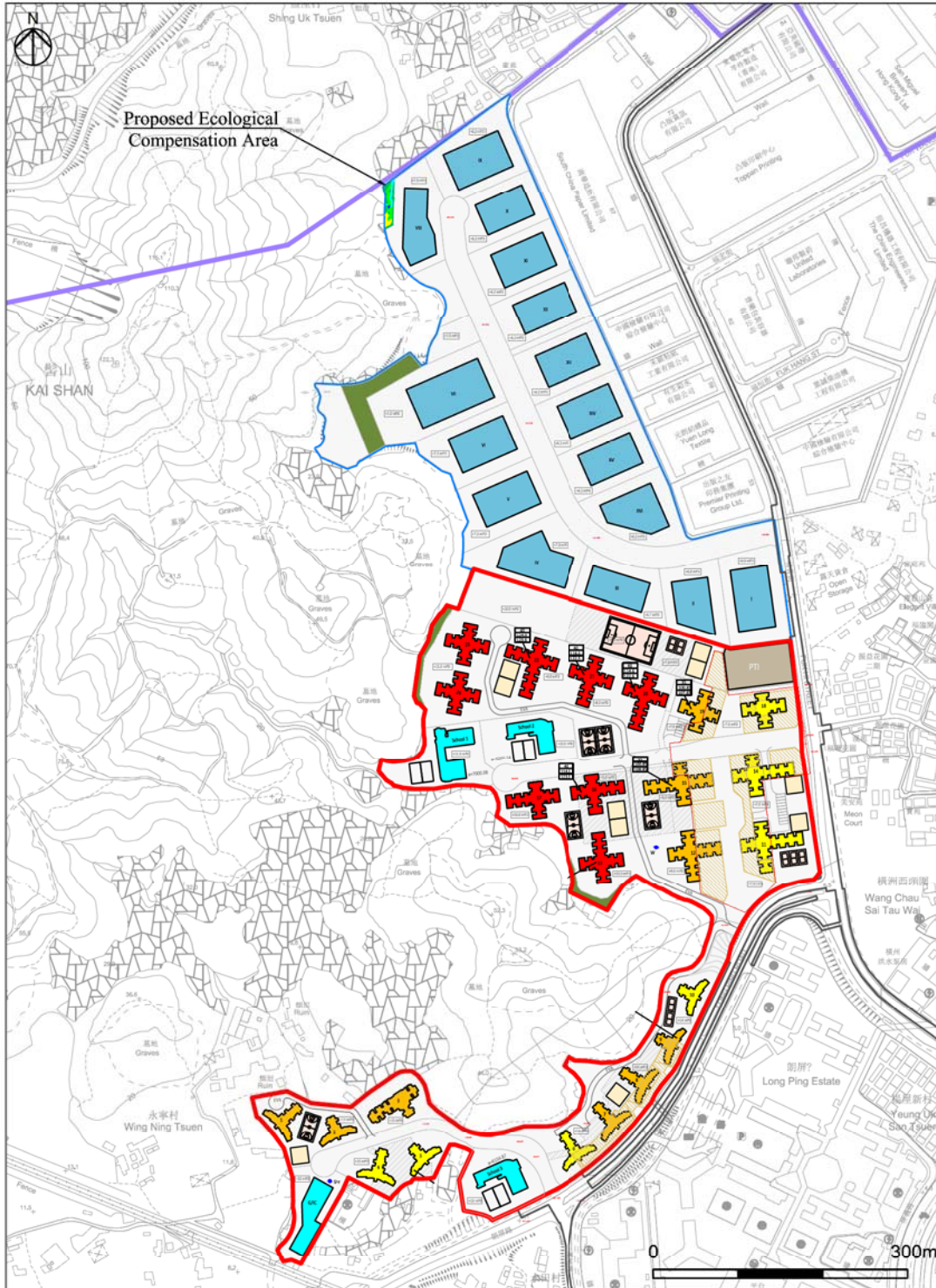
Consultant  
**ARUP**

Project title  
 Agreement No. CB2012093  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Watercourses within the Survey Area

Drawing no.		Figure 8.4		Rev.	C
Drawn	Date	Checked	Approved		
JH	03/14	MRL	ST		
Scale		Status			
AS SHOWN		PRELIMINARY			





**Legend**

- PH Site
- YLIEE Site
- Temporary Works Area Boundary
- Survey Area
- Wetland Buffer Area

**Habitat within the Ecological Compensation Area**

- Water > 0.5m (unplanted)
- Water < 0.5m (unplanted)
- Marsh Herb Planting
- Emergent Aquatic Herb Planting
- Riparian Shrub and Tree Planting

C	THIRD ISSUE	JH	03/14
B	SECOND ISSUE	EW	12/12
A	FIRST ISSUE	EW	10/12
Rev	Description	By	Date

Consultant

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Project title  
 Agreement No. CB2012093  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Conceptual Design of Ecological Compensation Area

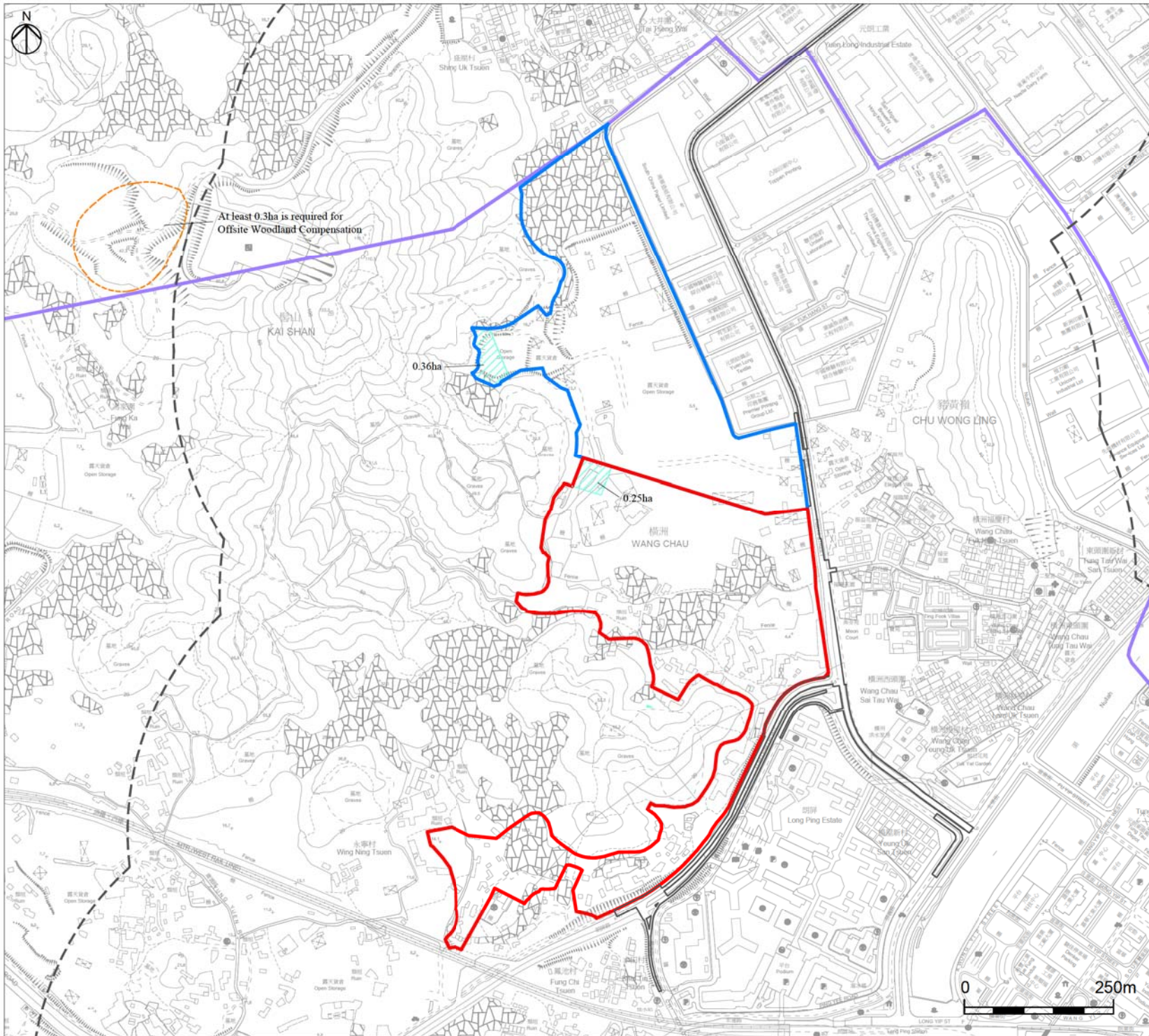
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Drawn	Date	Checked	Approved	C
JH	03/14	MRL	ST	
Scale		Status		
AS SHOWN		PRELIMINARY		

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Proposed Ecological Compensation Area

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- Legend**
- PH Site
  - YLIEE Site
  - Associated Works Boundary
  - Survey Area
  - Wetland Buffer Area
  - Onsite Woodland Compensation Area
  - Offsite Woodland Compensation Area

D	FOURTH ISSUE	GL	05/14
C	THIRD ISSUE	GL	11/13
B	SECOND ISSUE	EW	12/12
A	FIRST ISSUE	EW	10/12
Rev	Description	By	Date

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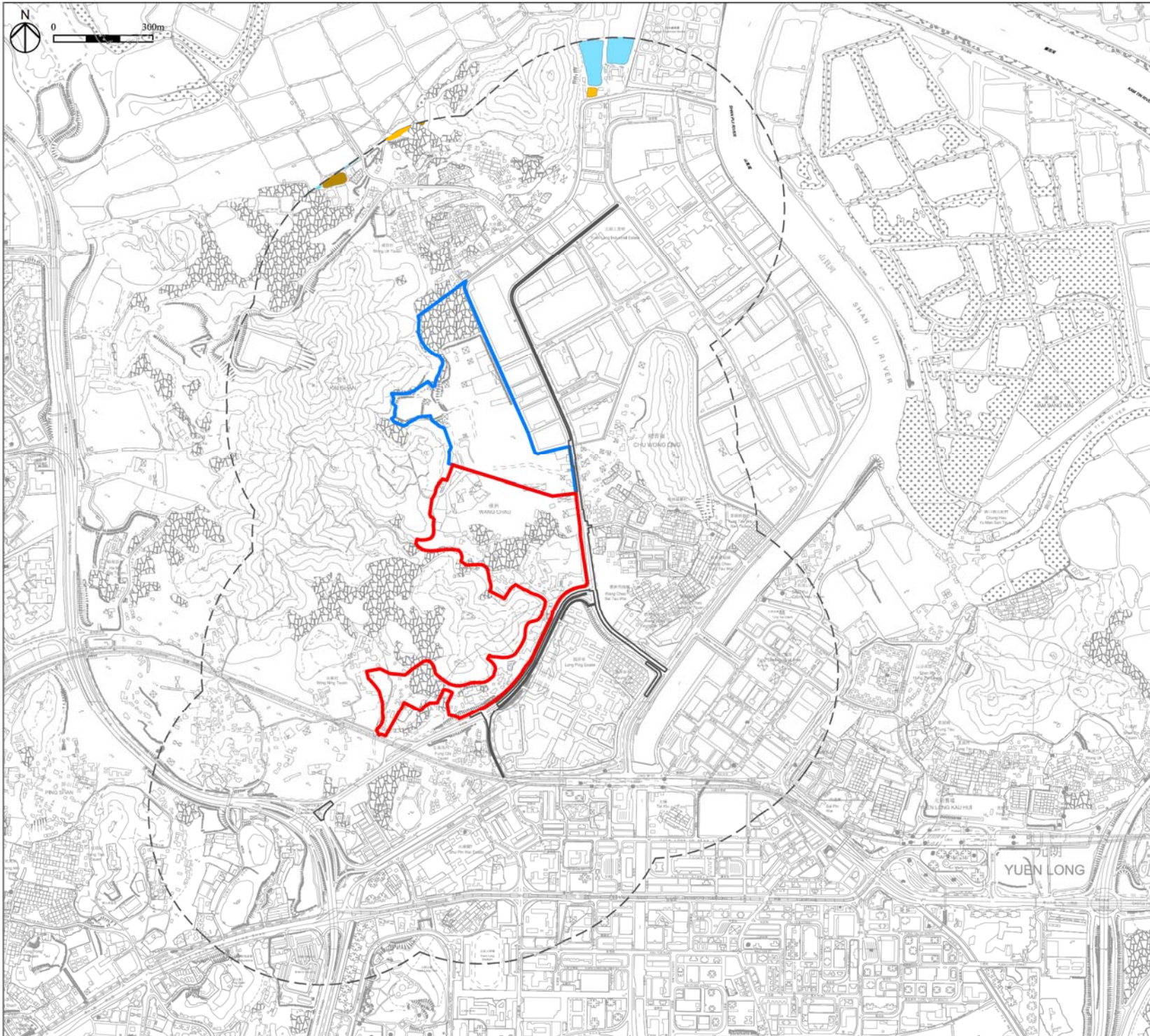
Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Location of on-site Woodland Compensation Area

Drawing no.		Figure 8.6		Rev.	D
Drawn	Date	Checked	Approved		
GL	05/14	MRL	ST		
Scale		Status	PRELIMINARY		
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**Legend**

- ▭ PH Site
- ▭ YLIEE Site
- Temporary Works Area Boundary
- Survey Area
- Active Fish Pond
- Inactive Fish Pond
- Abandoned Fish Pond

C	THIRD ISSUE	JH	03/14
B	SECOND ISSUE	EW	12/12
A	FIRST ISSUE	EW	10/12
Rev	Description	By	Date

Consultant

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Project title

Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site  
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title

Fish pond status in the Survey Area

Drawing no.

Figure 9.1

Rev. C

Drawn	Date	Checked	Approved
JH	03/14	MRL	ST

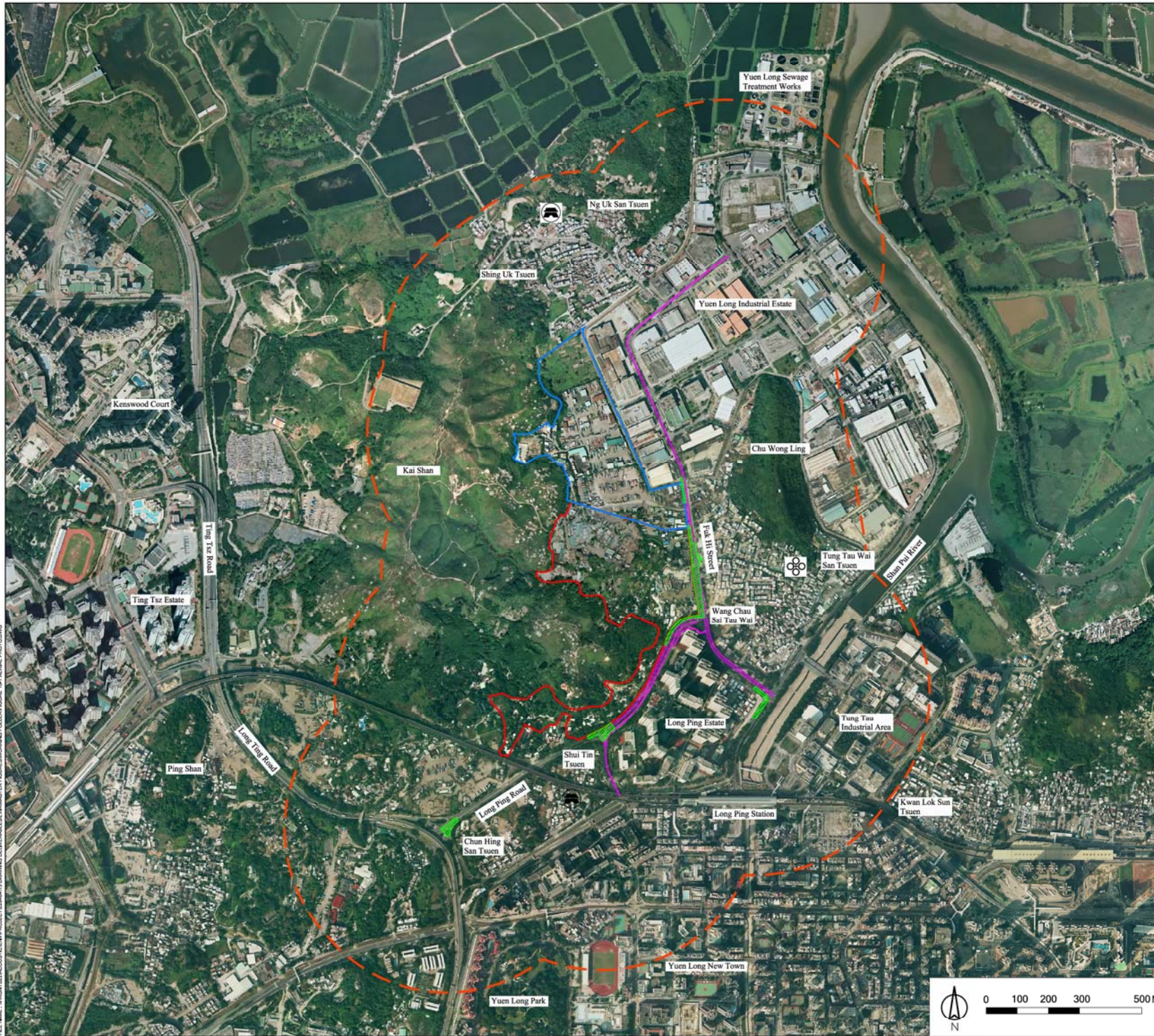
Scale	Status
AS SHOWN	PRELIMINARY

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- Legend**
- PH Site
  - YLIEE Site
  - - - Assessment Area for LIA (500m offset from Site Boundary and Works Areas)
  - Indicative Temporary Works Area (Sewage/Drainage/Flushing Water/Water Supply Works)
  - Indicative Temporary Works Area (Road Improvement Works)
  - Temple
  - Heritage Feature

C	Third Issue	JC	06/14
B	Second Issue	RD	05/14
A	First Issue	RD	11/13
Rev	Description	By	Date

Consultant

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Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title

## Aerial Photo

Drawing no.	Fig.10.1		Rev.	C			
Drawn	JC	Date	06/14	Checked	JC	Approved	ST
Scale	1:12,000(A3)		Status	Preliminary			

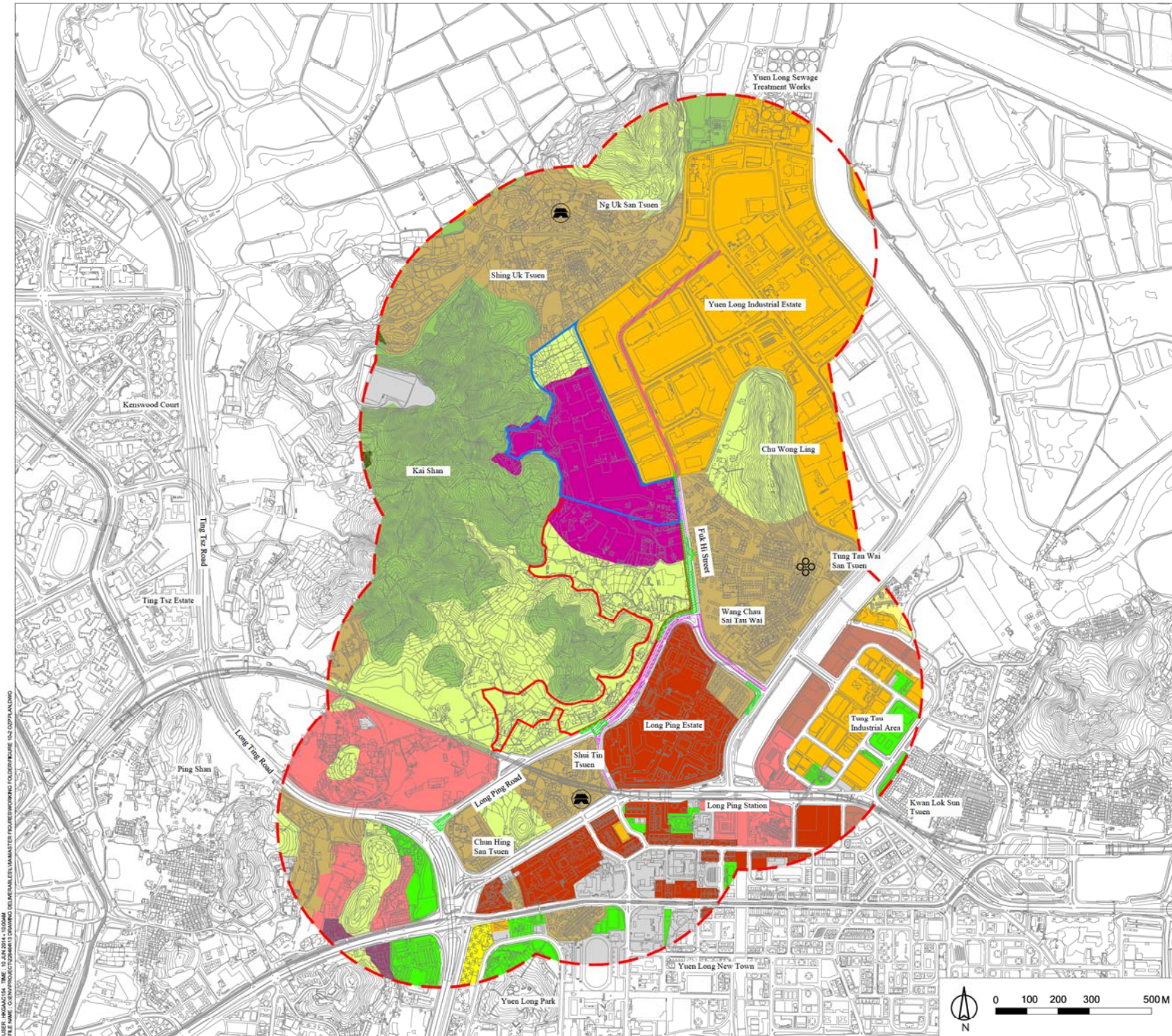
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**Legend**

- PH Site
- YLIEE Site
- Assessment Area for LVIA (500m offset from Site Boundary and Works Areas)
- Indicative Temporary Works Area (Sewage/Drainage Flushing Water/Water Supply Works)
- Indicative Temporary Works Area (Road Improvement Works)
- Temple
- Heritage Feature

The Outline Zoning Plans (OZPs) considered in this assessment include:

- No. S/YL-PS/14: Approved Ping Shan OZP
- No. S/YL/21: Approved Yuen Long OZP
- No. S/YL-LFS/7: Approved Lau Fau Shan & Tsim Bei Tsui OZP

1. Other Specified Uses
2. Green Belt
3. Conservation Area
4. Recreation
5. Open Space
6. Open Storage
7. Village Type Development
8. Comprehensive Development Area
9. Government/Institution/Community
10. Residential (Group A)
11. Residential (Group B)
12. Residential (Group D)
13. Residential (Group E)

Rev	Description	By	Date
D	Fourth Issue	JC	06/14
C	Third Issue	RD	05/14
B	Second Issue	RD	11/13
A	First Issue	PL	08/13

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**ARUP**

Project title  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

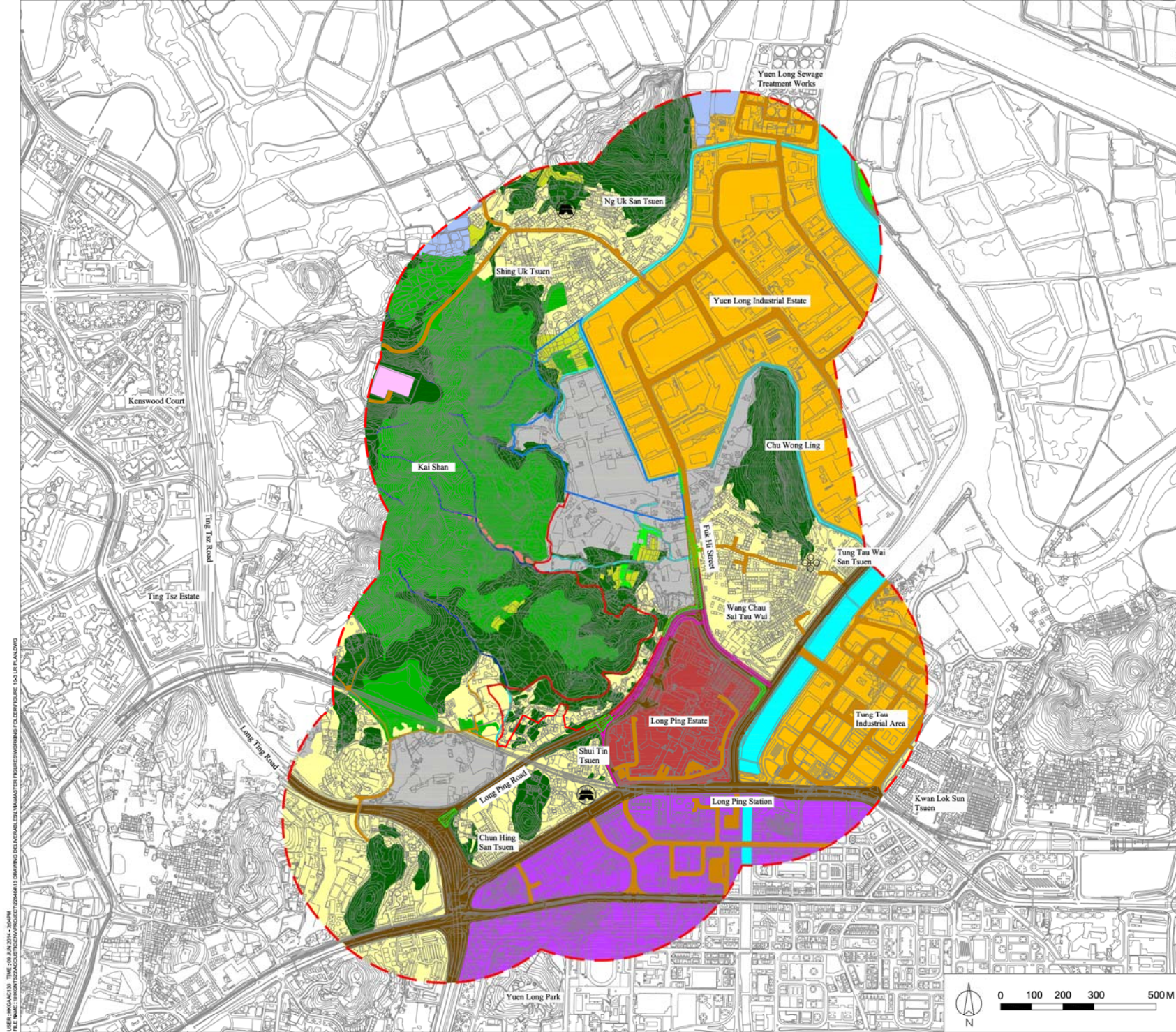
Drawing title  
**Review of Planning and Development Control Framework**

Drawing no.	Fig.10.2	Rev.	D
Drawn	JC	Date	06/14
Checked	JC	Approved	ST
Scale	1:12,000(A3)	Status	Preliminary

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USER: HK06AC154 TIME: 10 JUN 2014 4:00:00AM  
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### Legend

- PH Site Boundary
- YLIEE Site Boundary
- Assessment Area for LIA (500m offset from Site Boundary and Works Areas)
- Indicative Temporary Works Area (Sewage/Drainage/Flushing Water/Water Supply Works)
- Indicative Temporary Works Area (Road Improvement Works)
- Temple
- Heritage Feature

**Landscape Resources (LRs)**  
Total area of LR within the study area shown in hectares (ha) below:

1.  Industrial Area (92.5ha)
2.  Villages (45ha)
3.  Agricultural Land (3.5ha)
4.  Open Storage (34.4ha)
5.  Mixed Trees, Shrubland and Grassland (61ha)
6.  Woodlands (71ha)
7.  Residential Area (17ha)
8.  Major Transportation Corridor (20.6ha)
9.  Roads and Urban Infrastructure (19ha)
10.  Watercourse (2470m)
11.  Ponds (0.3ha)
12.  Fishponds (3ha)
13.  Man-made Channel (14.5ha)
14.  Urban Area (41.2ha)
15.  Utilities (1ha)

E	Fifth Issue	JC	06/14
D	Fourth Issue	RD	05/14
C	Third Issue	RD	11/13
B	Second Issue	KT	10/13
A	First Issue	PL	08/13
Rev	Description	By	Date

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Project title  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

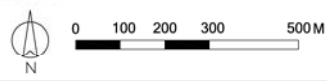
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**Landscape Resources Plan**

Drawing no.	Fig.10.3	Rev.	E
Drawn	JC	Date	05/14
Checked	JC	Approved	ST
Scale	1:12,000(A3)	Status	Preliminary

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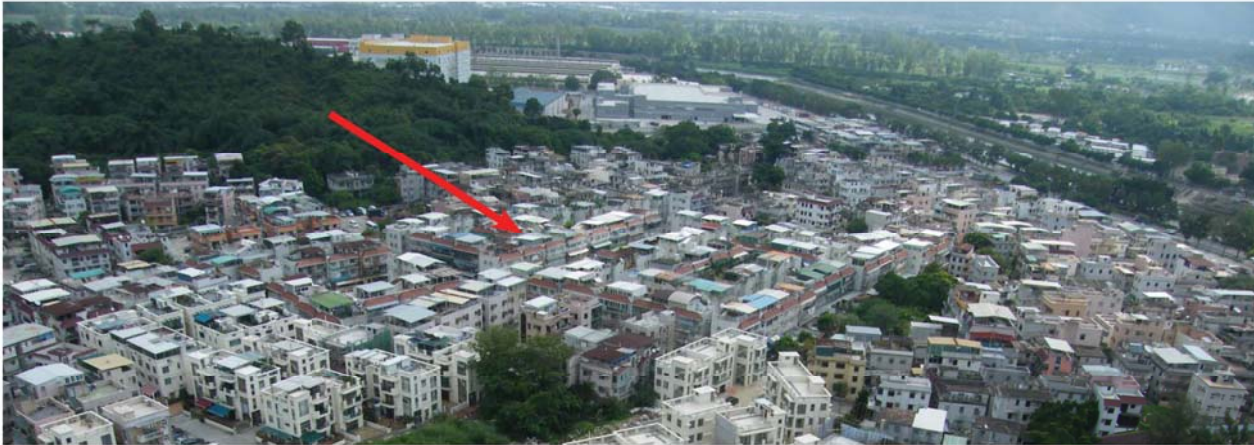




LR 1: Industrial Area



LR 2: Villages



LR 3: Agricultural Land



B	Second Issue	JC	06/14
A	First Issue	PL	08/13
Rev	Description	By	Date

Consultant

**ARUP**

Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site  
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Landscape Resource Photos 1, 2 & 3

Drawing no.	Fig. 10.4	Rev.	B
Drawn JC	Date 06/14	Checked JC	Approved ST
Scale	NTS	Status	Preliminary

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LR 4: Open Storage



LR 5: Mixed Trees, Shrubland and Grassland



LR 6: Woodlands



B	Second Issue	JC	06/14
A	First Issue	PL	08/13
Rev	Description	By	Date

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Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Landscape Resource Photos 4, 5 & 6

Drawing no.	Fig. 10.5	Rev.	B
Drawn	JC	Date	06/14
Checked	JC	Approved	ST
Scale	NTS	Status	Preliminary

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LR 10: Watercourse



LR 11: Ponds



LR 12: Fishponds



Rev	Description	By	Date
B	Second Issue	JC	06/14
A	First Issue	PL	08/13

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Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site  
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Landscape Resource Photos 10, 11 & 12

Drawing no.	Fig. 10.7	Rev.	B B
Drawn	JC	Date	06/14
Checked	JC	Approved	ST
Scale	NTS	Status	Preliminary

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LR 13: Man-made Channel



LR 14: Urban Area



LR 15: Utilities



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B	Second Issue	JC	06/14
A	First Issue	PL	08/13
Rev	Description	By	Date

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Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site  
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Landscape Resource Photos 13, 14 & 15

Drawing no.		Fig. 10.8		Rev.	B
Drawn	JC	Date	06/14	Checked	JC
				Approved	ST
Scale		NTS		Status	
				Preliminary	

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LCA 4: Residential Urban Landscape



LCA 5: Transportation Corridor Landscape



LCA 6: Urban Peripheral Village Landscape



Rev	Description	By	Date
B	Second Issue	JC	06/14
A	First Issue	PL	08/13

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Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site  
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Landscape Character Area Photos  
 4, 5 & 6

Drawing no.	Fig. 10.11			Rev.	B
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				Approved	ST
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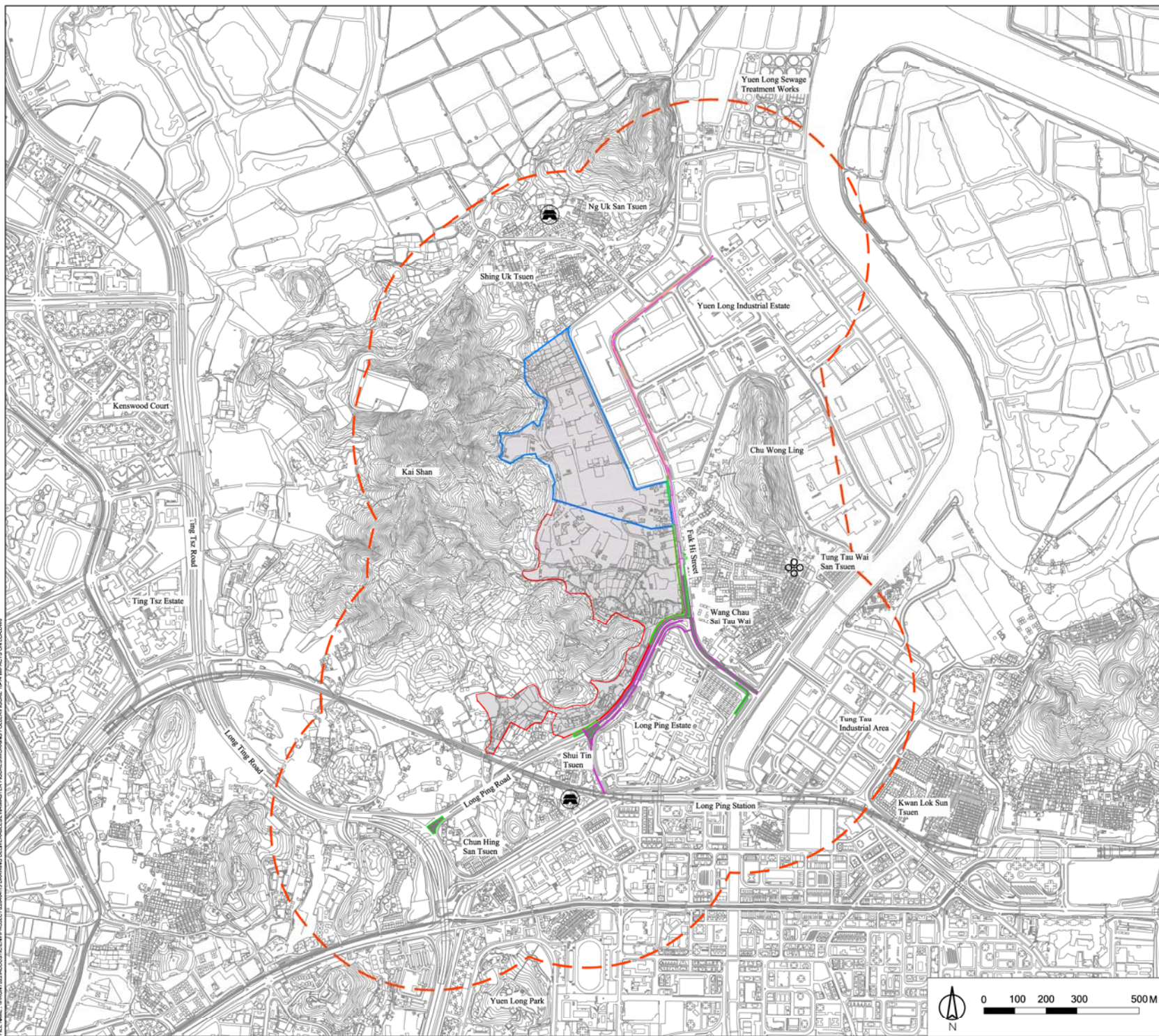








USER: H:\PROJECTS\130\_TING\_TSZ\2014\_4\_23\PM  
 FILE NAME: H:\PROJECTS\130\_TING\_TSZ\2014\_4\_23\PM\FIGURE\10-11 IMPACTS ON LANDSCAPE



### Legend

- PH Site Boundary
- YLIEE Site Boundary
- Assessment Area for LIA (500m offset from Site Boundary and Works Areas)
- Indicative Temporary Works Area (Sewage/Drainage/Flushing Water/Water Supply Works)
- Indicative Temporary Works Area (Road Improvement Works)
- Temple
- Heritage Feature

**Landscape Character Areas (LCAs)**  
Total area of LCA within the study area shown in hectares(ha) below

1.  Industrial Urban Landscape (0.5Ha)
2.  Miscellaneous Rural Fringe Landscape (33.8Ha)
5.  Transportation Corridor Landscape (1.7Ha)

D	Forth Issue	JC	06/14
C	Third Issue	RD	05/14
B	Second Issue	RD	11/13
A	First Issue	PL	08/13
Rev	Description	By	Date

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Project title  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
**Impacts on Landscape Character Areas**

Drawing no. Fig.10.14	Rev. D		
Drawn JC	Date 06/14	Checked JC	Approved ST
Scale 1:12,000(A3)	Status Preliminary		

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Indicative extent of PH Site

VSR 3: Fung Chi Tsuen



Indicative extent of PH Site

VSR 4: Fung Chi Road Intersection



Rev	Description	By	Date
A	First Issue	PL	08/13
B	Second Issue	JC	11/13
C	Third Issue	JC	06/14

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Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site  
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 VSR 3 and 4

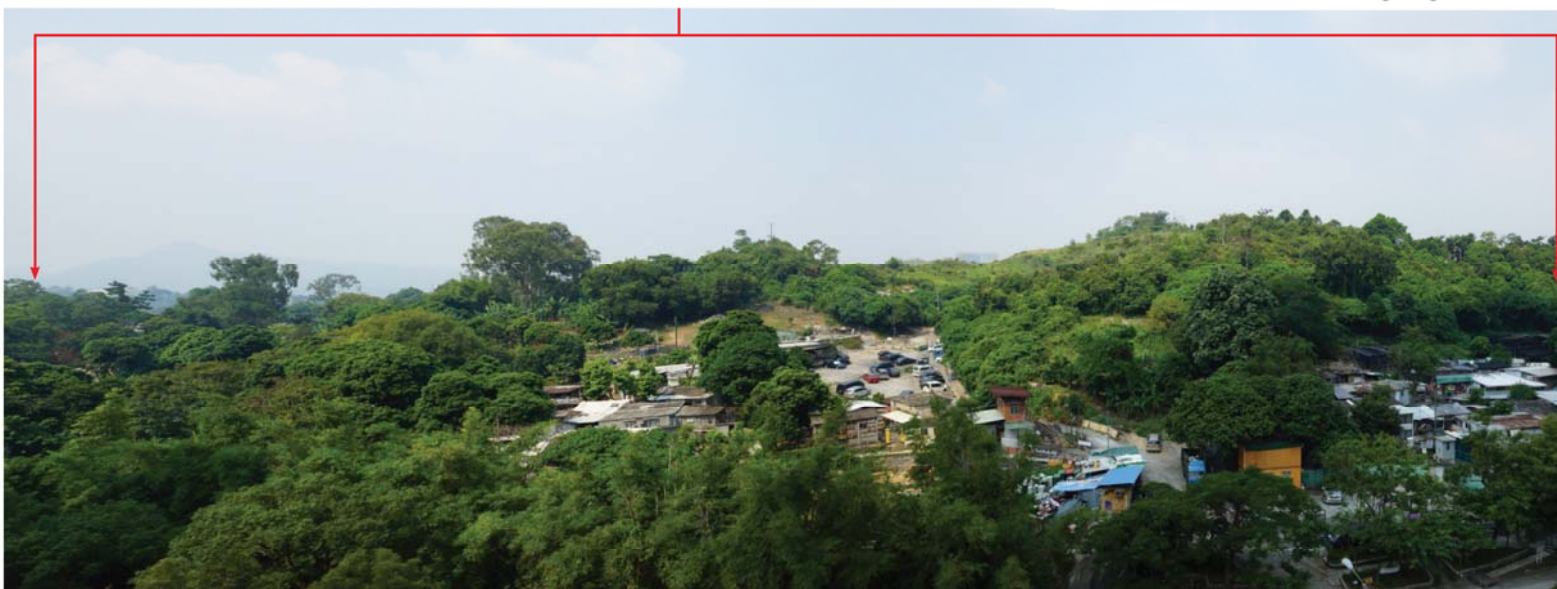
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Drawn	JC	Date	06/14
Checked	JC	Approved	ST
Scale	NTS	Status	Preliminary

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Indicative extent of PH Site

VSR 5: Roof Garden of Long Ping Estate Market



Indicative extent of PH Site

Indicative extent of YLIEE

VSR 6: Wah Ping House



Rev	Description	By	Date
C	Third Issue	JC	06/14
B	Second Issue	JC	11/13
A	First Issue	PL	08/13

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 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 VSR 5 and 6

Drawing no. Fig. 10.18 Rev. C

Drawn	JC	Date	06/14	Checked	JC	Approved	ST
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Scale	NTS	Status	Preliminary
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Indicative extent of PH Site

Indicative extent of YLIEE

VSR 9: Chu Wong Ling



Indicative extent of PH Site

Indicative extent of YLIEE

VSR 10: Fuk Hi Street adjacent China Inspection Co. Ltd.



Rev	Description	By	Date
A	First Issue	PL	08/13
B	Second Issue	JC	11/13
C	Third Issue	JC	06/14

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Drawing title

VSR 9 and 10

Drawing no.		Fig. 10.20		Rev.	
Drawn	JC	Date	06/14	Checked	JC
			Status	Approved	ST
Scale		NTS		Preliminary	

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Indicative extent of YLIEE

VSR 11: Fuk Hang Street



Indicative extent of YLIEE

VSR 12: Fuk Wang Street



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A	First Issue	PL	08/13
B	Second Issue	JC	11/13
C	Third Issue	JC	06/14

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Drawing title

VSR 11 and 12

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Scale	NTS		Status	Preliminary					

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Indicative extent of YLIEE

VSR 13: Fuk Shun Street Intersection



Indicative extent of YLIEE

Indicative extent of PH Site

VSR 14: Tai Tseng Wai



Rev	Description	By	Date
A	First Issue	PL	08/13
B	Second Issue	JC	11/13
C	Third Issue	JC	06/14

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Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site  
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 VSR 13 and 14

Drawing no.	Fig. 10.22	Rev.	C
Drawn	JC	Date	06/14
Checked	JC	Approved	ST
Scale	NTS	Status	Preliminary





Indicative extent of PH Site

VSR 15: Upland behind Wing Ning Tsuen



Indicative extent of PH Site

Indicative extent of YLIEE

VSR 16: Foothills above Yeung Uk San Tsuen



Rev	Description	By	Date
C	Third Issue	JC	06/14
B	Second Issue	JC	11/13
A	First Issue	PL	08/13

Consultant  
**ARUP**

Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site  
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 VSR 15 and 16

Drawing no.	Fig. 10.23	Rev.	C
Drawn	JC	Date	06/14
Checked	JC	Approved	ST
Scale	NTS	Status	Preliminary

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Indicative extent of YLIEE

Indicative extent of PH Site

VSR 17: Uphill Open Grassland - Kai Shan



Indicative extent of YLIEE

Indicative extent of PH Site

VSR 18: Kai Shan Peak - Facing East



Rev	Description	By	Date
C	Third Issue	JC	06/14
B	Second Issue	JC	11/13
A	First Issue	PL	08/13

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Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site  
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 VSR 17 and 18

Drawing no.	Fig. 10.24	Rev.	C
Drawn	JC	Date	06/14
Checked	JC	Approved	ST
Scale	NTS	Status	Preliminary

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Indicative extent of YLIEE

Indicative extent of PH Site

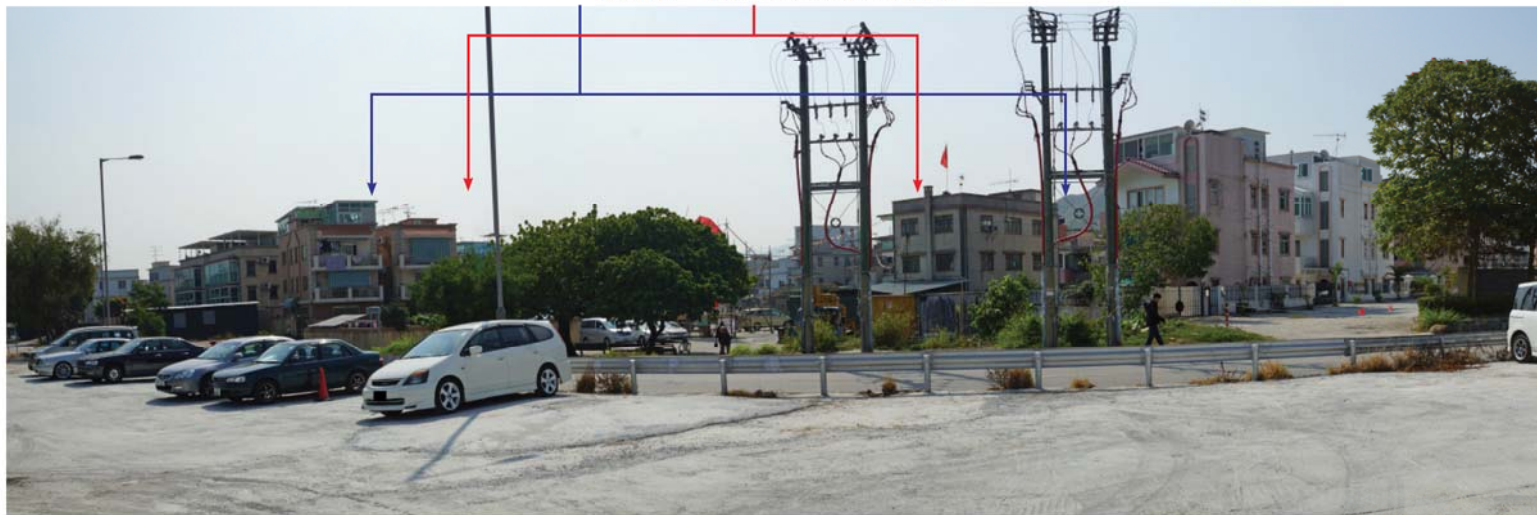
VSR 19: High Point above Shing Uk Tsuen



Indicative extent of YLIEE

Indicative extent of PH Site

VSR 20: Open Area & Car Park, Ng Uk Tsuen



Rev	Description	By	Date
C	Third Issue	JC	06/14
B	Second Issue	JC	11/13
A	First Issue	PL	08/13

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Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 VSR 19 and 20

Drawing no. Fig. 10.25 Rev. C

Drawn	JC	Date	06/14	Checked	JC	Approved	ST
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Scale	NTS	Status	Preliminary
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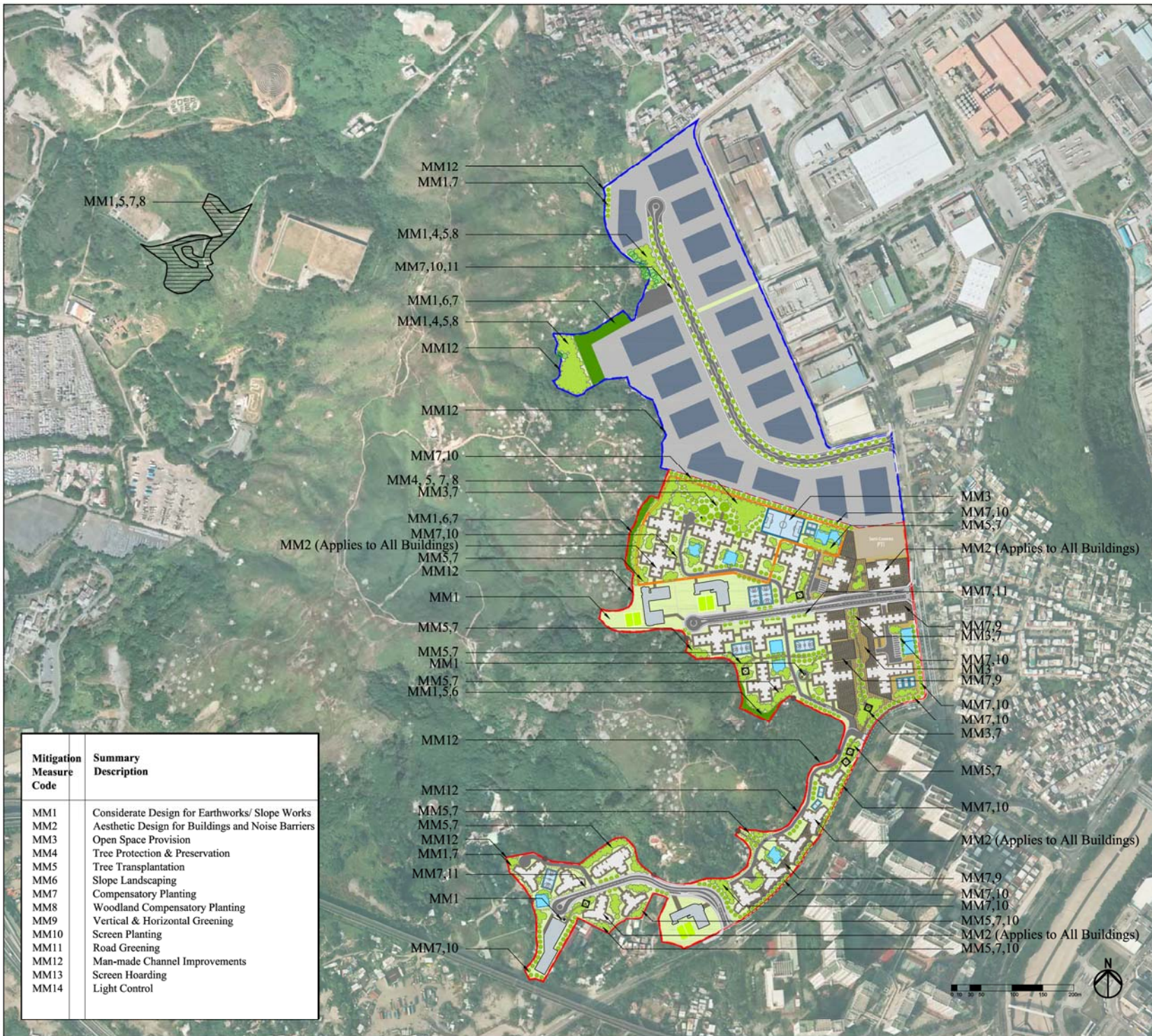
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**Legend**

- PH Site Boundary
- YLIEE Site Boundary
- Public Open Space (Hardscape) (MM3)
- Public Open Space (Softscape) (MM3)
- Green Roof (MM9)
- Retaining Slope/Wall with Planting (MM6)
- Circulation Space and Footpath
- Jogging Track
- ⊙ Shr Shrine
- w Well
- Entrance to Kai Shan
- ⊞ Playground (MM3)
- ⊞ Pavilion
- ⊞ Hard Paving
- ⊞ Offsite Woodland Compensation (MM8)
- ⊞ Badminton Court (MM3)
- ⊞ Basketball Court (MM3)
- ⊞ Sports Pitch (MM3)
- ⊞ Football Pitch (MM3)

**Illustrative Planting Layout**

- Retained Tree (MM4)
- Proposed Tree (MM7)
- Tree Group (MM7)

**Notes**

- MM12 - See Proposed Drainage Layout Plan for details of channels.
- MM13 - Applies during the Construction Stage only.
- MM14 - Light Control applies across both sites during construction and operation.
- Urban design layout is based on preferred option.

B	SECOND ISSUE	KW	06/14
A	FIRST ISSUE	KW	11/13
Rev	Description	By	Date

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Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Landscape Mitigation Plan - Overview

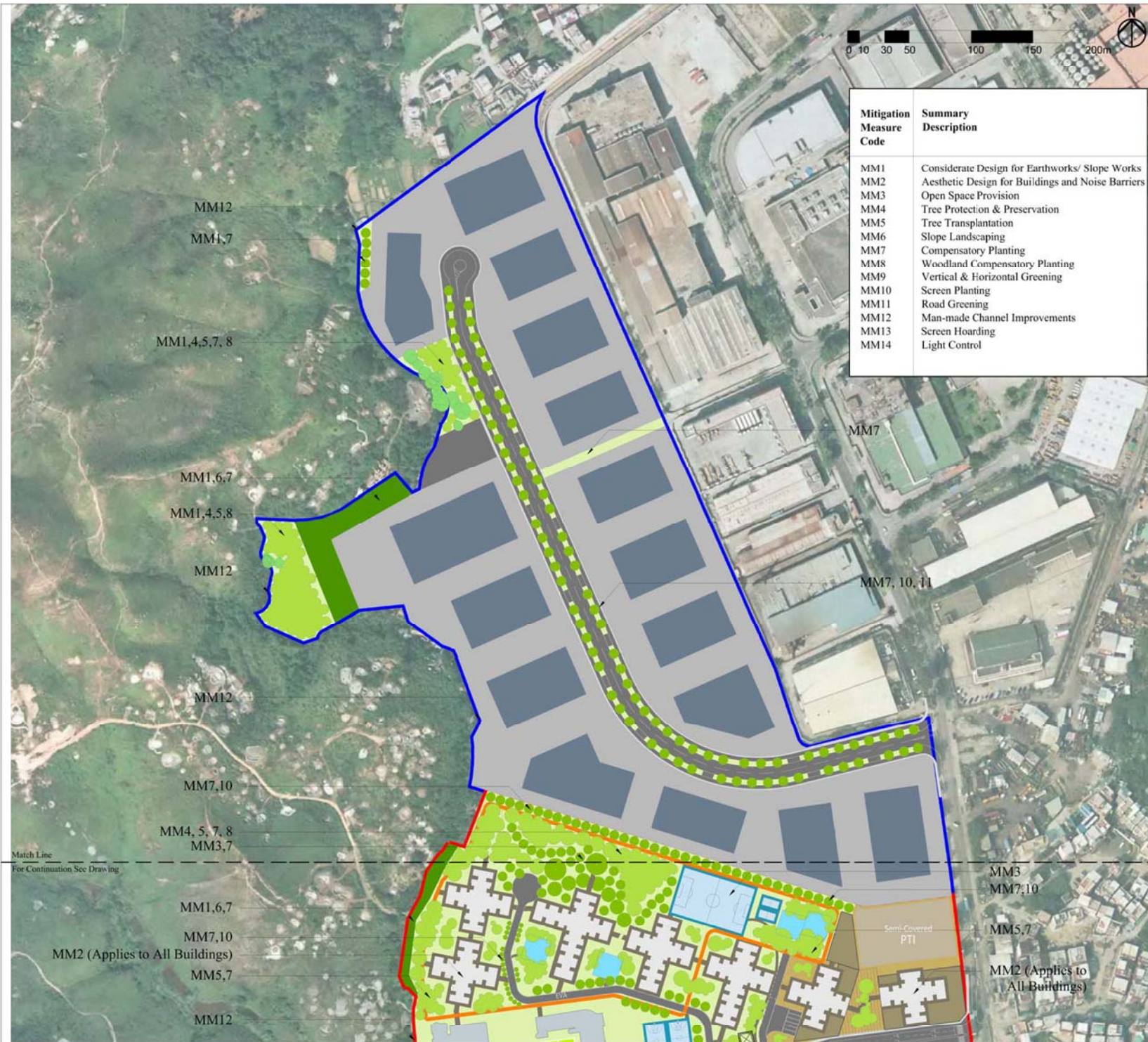
Drawing no.	Figure 10.28	Rev.	B
Drawn	KW	Date	06/14
Checked	JC	Approved	ST
Scale	1:6000 (A3)	Status	PRELIMINARY

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Mitigation Measure Code	Summary Description
MM1	Considerate Design for Earthworks/ Slope Works
MM2	Aesthetic Design for Buildings and Noise Barriers
MM3	Open Space Provision
MM4	Tree Protection & Preservation
MM5	Tree Transplantation
MM6	Slope Landscaping
MM7	Compensatory Planting
MM8	Woodland Compensatory Planting
MM9	Vertical & Horizontal Greening
MM10	Screen Planting
MM11	Road Greening
MM12	Man-made Channel Improvements
MM13	Screen Hoarding
MM14	Light Control





Mitigation Measure Code	Summary Description
MM1	Considerate Design for Earthworks/ Slope Works
MM2	Aesthetic Design for Buildings and Noise Barriers
MM3	Open Space Provision
MM4	Tree Protection & Preservation
MM5	Tree Transplantation
MM6	Slope Landscaping
MM7	Compensatory Planting
MM8	Woodland Compensatory Planting
MM9	Vertical & Horizontal Greening
MM10	Screen Planting
MM11	Road Greening
MM12	Man-made Channel Improvements
MM13	Screen Hoarding
MM14	Light Control

**Legend**

- PH Site Boundary
- YLIEE Site Boundary
- Public Open Space (Hardscape) (MM3)
- Public Open Space (Softscape) (MM3)
- Green Roof (MM9)
- Retaining Slope/Wall with Planting (MM6)
- Circulation Space and Footpath
- Jogging Track
- Shr Shrine
- Well
- Entrance to Kai Shan
- Playground (MM3)
- Pavilion
- Hard Paving
- Badminton Court (MM3)
- Basketball Court (MM3)
- Sports Pitch (MM3)
- Football Pitch (MM3)

**Illustrative Planting Layout**

- Retained Tree (MM4)
- Proposed Tree (MM7)
- Tree Group (MM7)

- Notes**
- MM12 - See Proposed Drainage Layout Plan for details of channels.
  - MM13 - Applies during the Construction Stage only
  - MM14 - Light Control applies across both sites during construction and operation.
  - Urban design layout is based on preferred option.

B	SECOND ISSUE	KW	06/14
A	FIRST ISSUE	KW	11/13
Rev	Description	By	Date

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Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

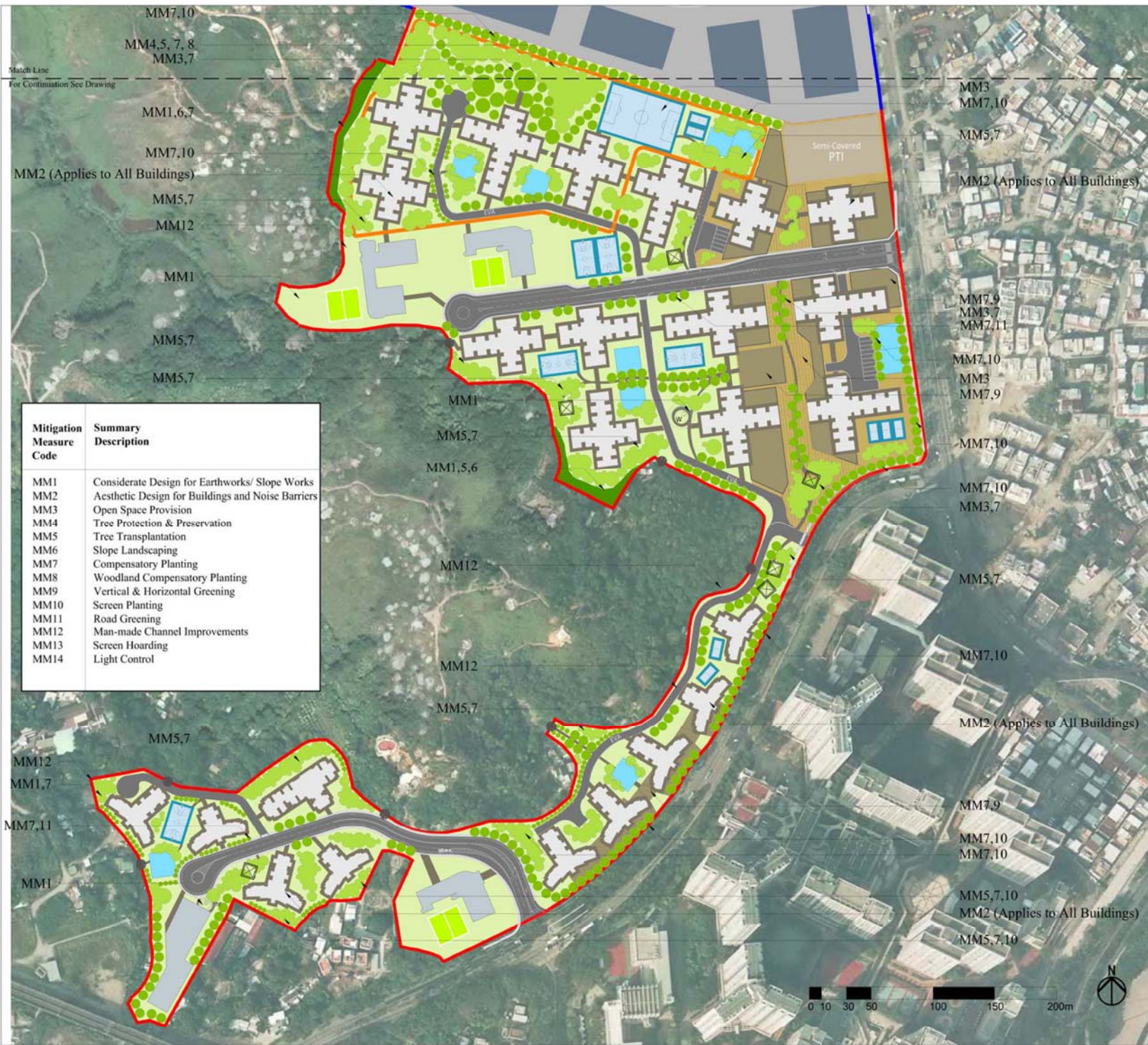
Drawing title  
Landscape Mitigation Plan - YLIEE Site

Drawing no.	Figure 10.29	Rev.	B
Drawn	KW	Date	06/14
Checked	JC	Approved	ST
Scale	1:3000 (A3)	Status	PRELIMINARY

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Match Line  
For Continuation See Drawing

Mitigation Measure Code	Summary Description
MM1	Considerate Design for Earthworks/ Slope Works
MM2	Aesthetic Design for Buildings and Noise Barriers
MM3	Open Space Provision
MM4	Tree Protection & Preservation
MM5	Tree Transplantation
MM6	Slope Landscaping
MM7	Compensatory Planting
MM8	Woodland Compensatory Planting
MM9	Vertical & Horizontal Greening
MM10	Screen Planting
MM11	Road Greening
MM12	Man-made Channel Improvements
MM13	Screen Hoarding
MM14	Light Control

Legend

- PH Site Boundary
- YLIEE Site Boundary
- Public Open Space (Hardscape) (MM3)
- Public Open Space (Softscape) (MM3)
- Green Roof (MM9)
- Retaining Slope/Wall with Planting (MM6)
- Circulation Space and Footpath
- Jogging Track
- Shr Shrine
- Well
- Entrance to Kai Shan
- Playground (MM3)
- Pavilion
- Hard Paving
- Badminton Court (MM3)
- Basketball Court (MM3)
- Sports Pitch (MM3)
- Football Pitch (MM3)
- Illustrative Planting Layout**
  - Retained Tree (MM4)
  - Proposed Tree (MM7)
  - Tree Group (MM7)

Notes

1. MM12 - See Proposed Drainage Layout Plan for details of channels.
2. MM13 - Applies during the Construction Stage only.
3. MM14 - Light Control applies across both sites during construction and operation.
4. Urban design layout is based on preferred option.

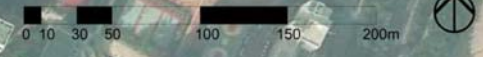
B	SECOND ISSUE	KW	06/14
A	FIRST ISSUE	KW	11/13
Rev	Description	By	Date

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Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
Landscape Mitigation Plan - PH Site

Drawing no.	Figure 10.30	Rev.	B
Drawn	KW	Date	06/14
Checked	JC	Approved	ST
Scale	1:3000 (A3)	Status	PRELIMINARY







VSR 1 Existing View



VSR 1 Photomontage- no mitigation at Day 1

**NOTES:**

1. Photomontages have been generated to provide a preliminary idea on the scale and extent of the proposed development. These images will be subject to change and are for illustrative purposes only. Built form demonstrates scale and massing only, it does not represent final architectural design, finishes or any other detailed design related components.

B	Second Issue	KW	06/14
A	First Issue	JC	05/14
Rev	Description	By	Date

Consultant  
**ARUP**

Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Photomontage  
 VSR 1 Chun Hing San Tsuen (1 of 2)

Drawing no.		Fig.10.31		Rev.	B
Drawn	KW	Date	06/14	Checked	JC
				Approved	ST
Scale	NTS		Status	Preliminary	

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MM 7 MM 2 MM 7,10 MM 7,10



VSR 1 Photomontage- with mitigation at Day 1

MM 7 MM 2 MM 7,10 MM 7,10



VSR 1 Photomontage- with mitigation at Year 10

MITIGATION MEASURES:

Mitigation Measures Code	Summary Description
MM1 *	Minimum Topographical Change
MM2	Detail Design - Visual
MM3 *	Open Space Provision
MM4	Tree Protection & Preservation
MM5 *	Tree Transplantation
MM6	Slope Landscaping
MM7	Compensatory Planting
MM8	Woodland Compensatory Planting
MM9	Vertical & Horizontal Greening
MM10	Screen Planting
MM11	Road Greening
MM12 *	Man-made Channel Improvements
MM13 *	Screen Hoarding
MM14 *	Light Control

\* Only applicable for construction phase and not indicated here.  
MM2 applicable to all buildings

NOTES:

1. Photomontages have been generated to provide a preliminary idea on the scale and extent of the proposed development. These images will be subject to change and are for illustrative purposes only. Built form demonstrates scale and massing only, it does not represent final architectural design, finishes or any other detailed design related components.

B	Second Issue	KW	06/14
A	First Issue	JC	05/14
Rev	Description	By	Date

Consultant

**ARUP**

Project title  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
**Photomontage**  
VSR 1 Chun Hing San Tsuen (2 of 2)

Drawing no.	Fig.10.32	Rev.	B
Drawn	KW	Date	06/14
Checked	JC	Approved	ST
Scale	NTS	Status	Preliminary

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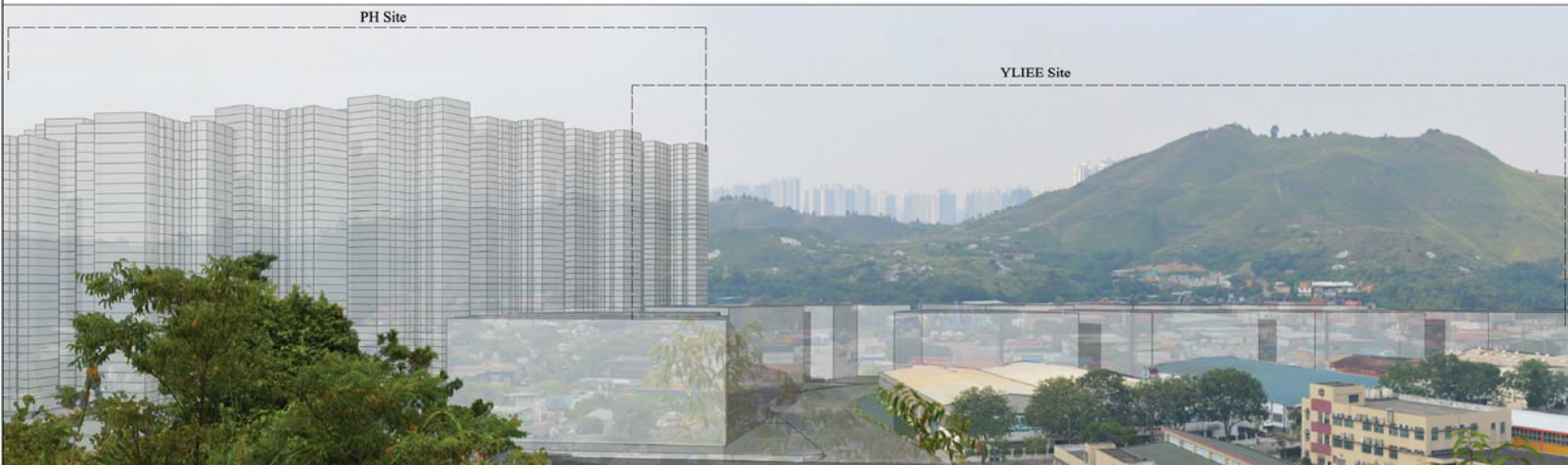


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VSR 9 Existing Viewing



VSR 9 Photomontage- no mitigation at Day 1

**NOTES:**

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B	Second Issue	KW	06/14
A	First Issue	JC	05/14
Rev	Description	By	Date

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Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Photomontage  
 VSR 9 Chu Wong Ling (1 of 2)

Drawing no. Fig.10.33 Rev. B

Drawn	KW	Date	06/14	Checked	JC	Approved	ST
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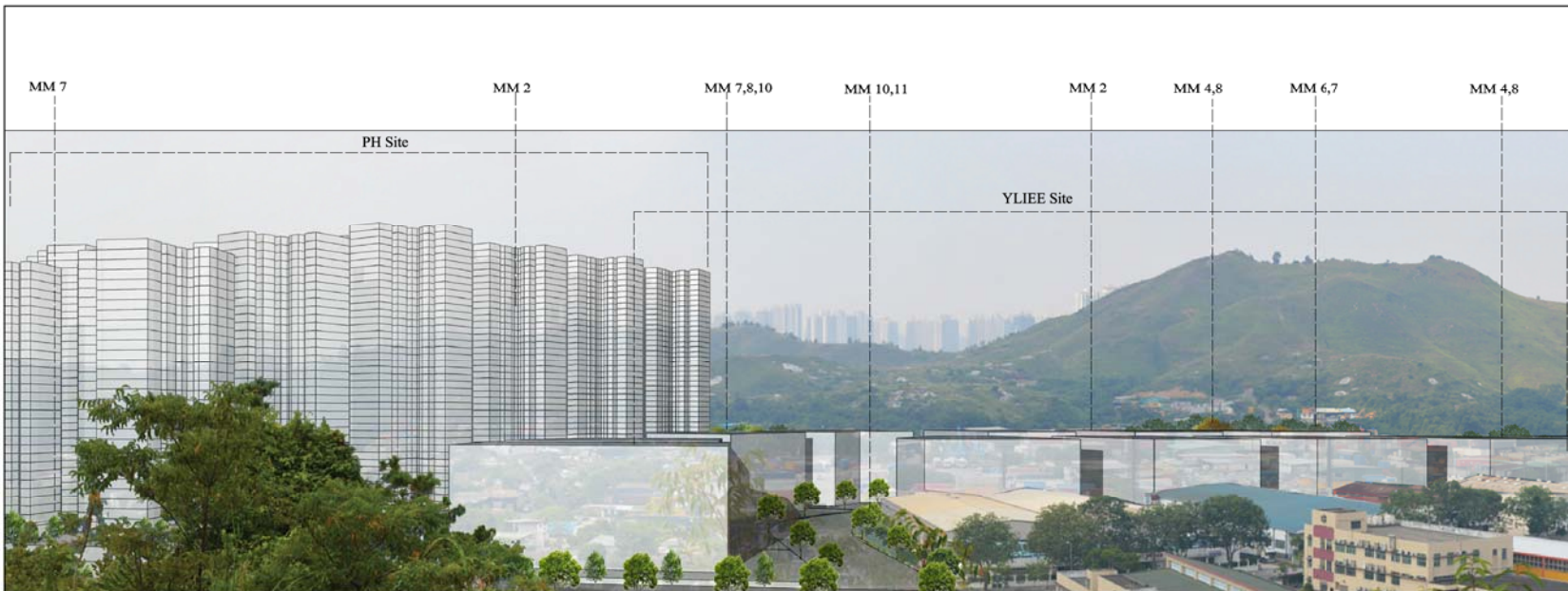
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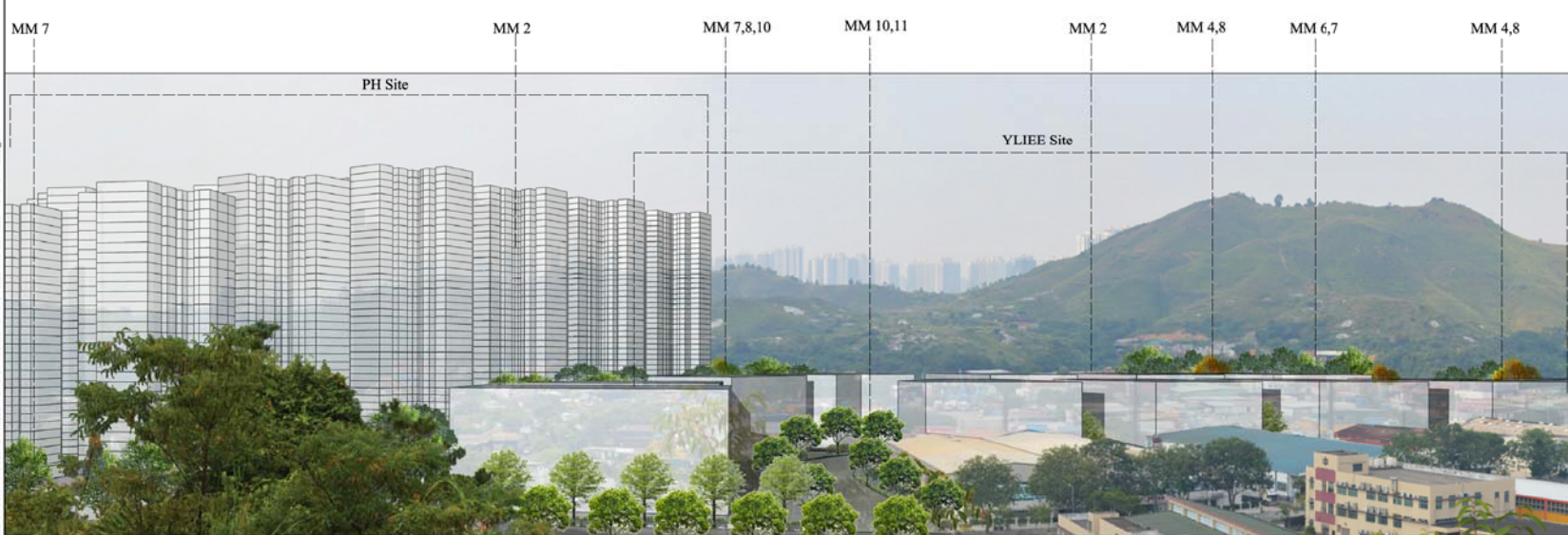


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VSR 9 Photomontage- with mitigation at Day 1



VSR 9 Photomontage- with mitigation at Year 10

MITIGATION MEASURES:

Mitigation Measures Code	Summary Description
MM1 *	Minimum Topographical Change
MM2	Detail Design - Visual
MM3 *	Open Space Provision
MM4	Tree Protection & Preservation
MM5 *	Tree Transplantation
MM6	Slope Landscaping
MM7	Compensatory Planting
MM8	Woodland Compensatory Planting
MM9	Vertical & Horizontal Greening
MM10	Screen Planting
MM11	Road Greening
MM12 *	Man-made Channel Improvements
MM13 *	Screen Hoarding
MM14 *	Light Control

\* Only applicable for construction phase and not indicated here.  
MM2 applicable to all buildings

NOTES:

1. Photomontages have been generated to provide a preliminary idea on the scale and extent of the proposed development. These images will be subject to change and are for illustrative purposes only. Built form demonstrates scale and massing only, it does not represent final architectural design, finishes or any other detailed design related components.

B	Second Issue	KW	06/14
A	First Issue	KT	05/14
Rev	Description	By	Date

Consultant  
**ARUP**

Project title  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
**Photomontage  
VSR 9 Chu Wong Ling (2 of 2)**

Drawing no. Fig.10.34 Rev. B

Drawn	KW	Date	06/14	Checked	JC	Approved	ST
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Scale	NTS	Status	Preliminary
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VSR 20 Existing View



VSR 20 Photomontage- no mitigation at Day 1

**NOTES:**

1. Photomontages have been generated to provide a preliminary idea on the scale and extent of the proposed development. These images will be subject to change and are for illustrative purposes only. Built form demonstrates scale and massing only, it does not represent final architectural design, finishes or any other detailed design related components.

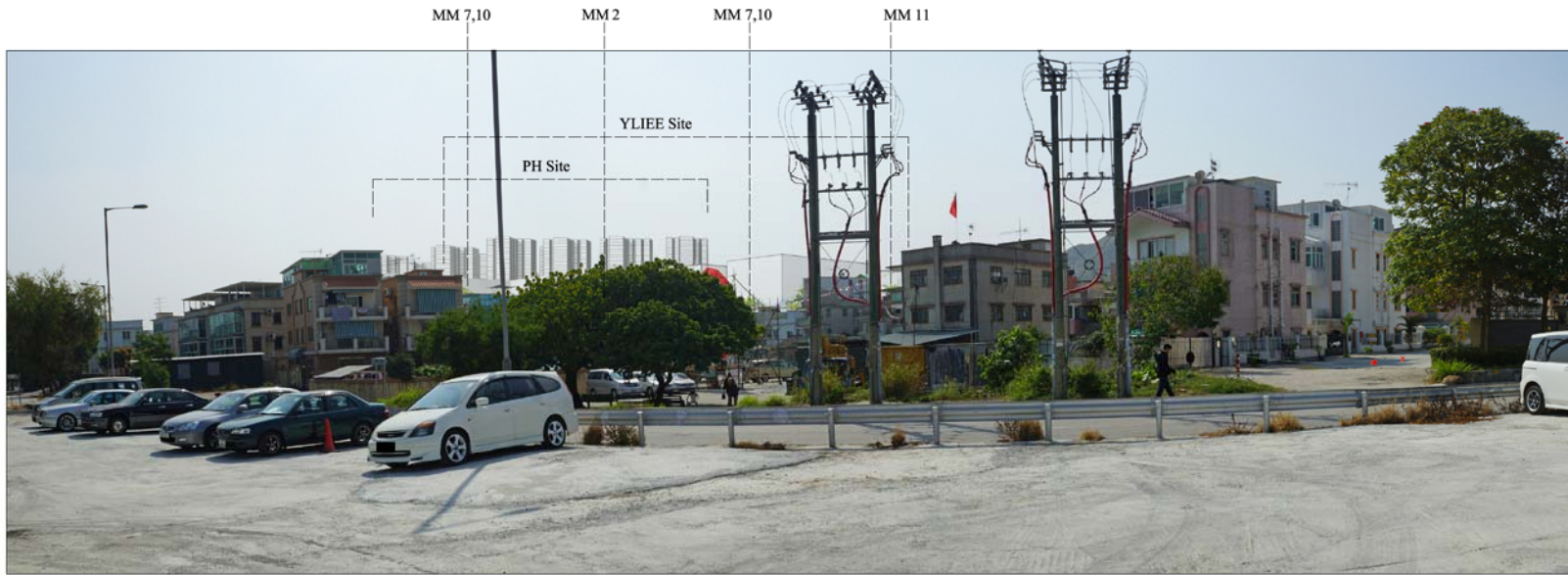
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B	Second Issue	KW	06/14
A	First Issue	JC	05/14
Rev	Description	By	Date
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<b>ARUP</b>			
Project title			
Agreement No. CB20120293 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau			
Drawing title			
Photomontage VSR 20 Open area & car park, Ng Uk Tsuen (1 of 2)			
Drawing no. Fig.10.35			Rev. B
Drawn	KW	Date 06/14	Checked JC Approved ST
Scale	NTS		Status Preliminary
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VSR 20 Photomontage- with mitigation at Day 1



VSR 20 Photomontage -with mitigation at Year 10

MITIGATION MEASURES:

Mitigation Measures Code	Summary Description
MM1 *	Minimum Topographical Change
MM2	Detail Design - Visual
MM3 *	Open Space Provision
MM4	Tree Protection & Preservation
MM5	Tree Transplantation
MM6	Slope Landscaping
MM7	Compensatory Planting
MM8	Woodland Compensatory Planting
MM9	Vertical & Horizontal Greening
MM10	Screen Planting
MM11	Road Greening
MM12 *	Man-made Channel Improvements
MM13 *	Screen Hoarding
MM14 *	Light Control

\* Only applicable for construction phase and not indicated here.  
MM2 applicable to all buildings

NOTES:

1. Photomontages have been generated to provide a preliminary idea on the scale and extent of the proposed development. These images will be subject to change and are for illustrative purposes only. Built form demonstrates scale and massing only, it does not represent final architectural design, finishes or any other detailed design related components.

B	Second Issue	KW	06/14
A	First Issue	JC	05/14
Rev	Description	By	Date

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Project title  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

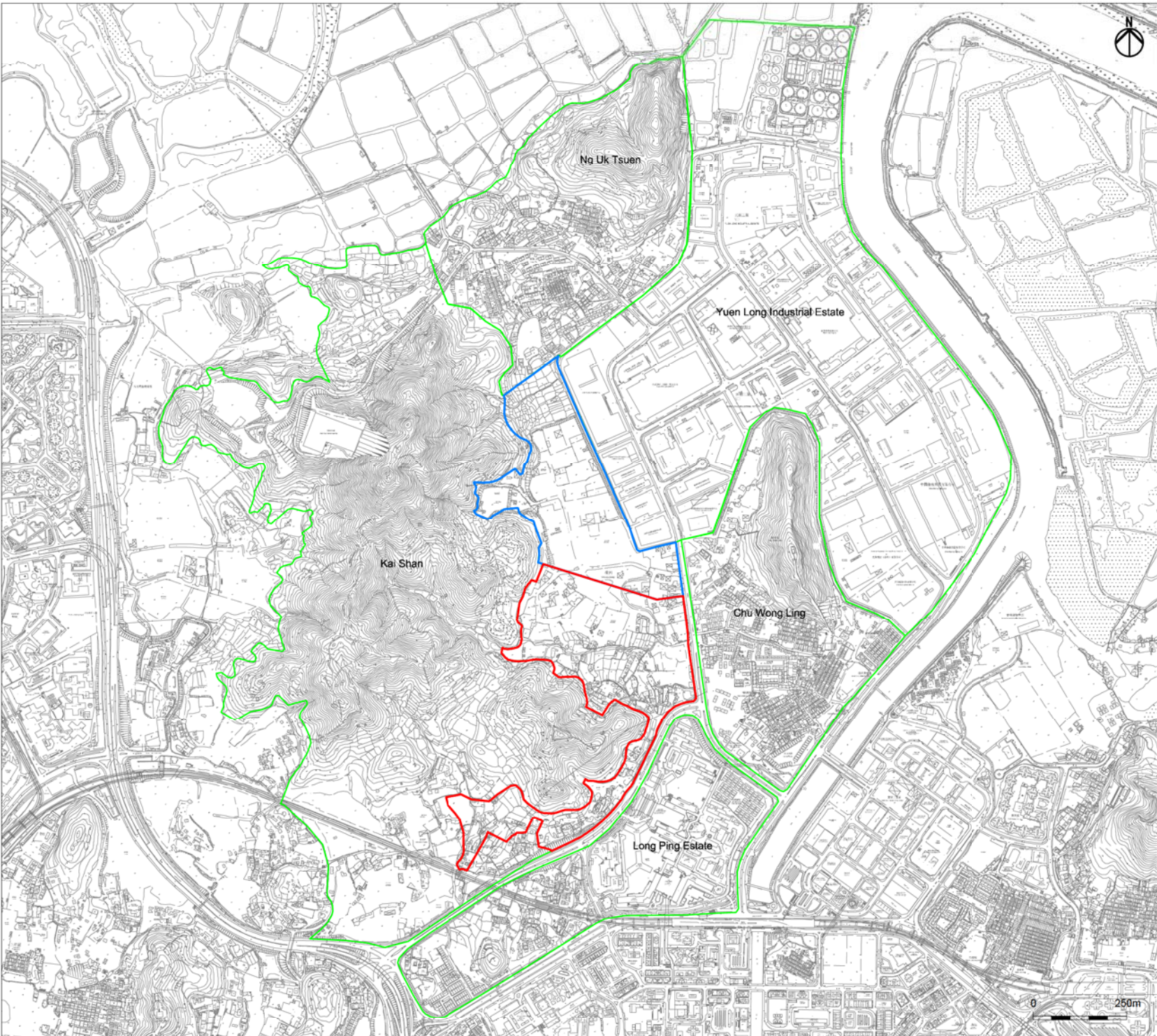
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Photomontage  
VSR 20 Open area & car park, Ng Uk Tsuen (2 of 2)

Drawing no.	Fig.10.36	Rev.	B
Drawn	KW	Date	06/14
Checked	JC	Approved	ST
Scale	NTS	Status	Preliminary

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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Other Area

A	FIRST ISSUE	GL	11/13
Rev	Description	By	Date
Consultant			

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Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

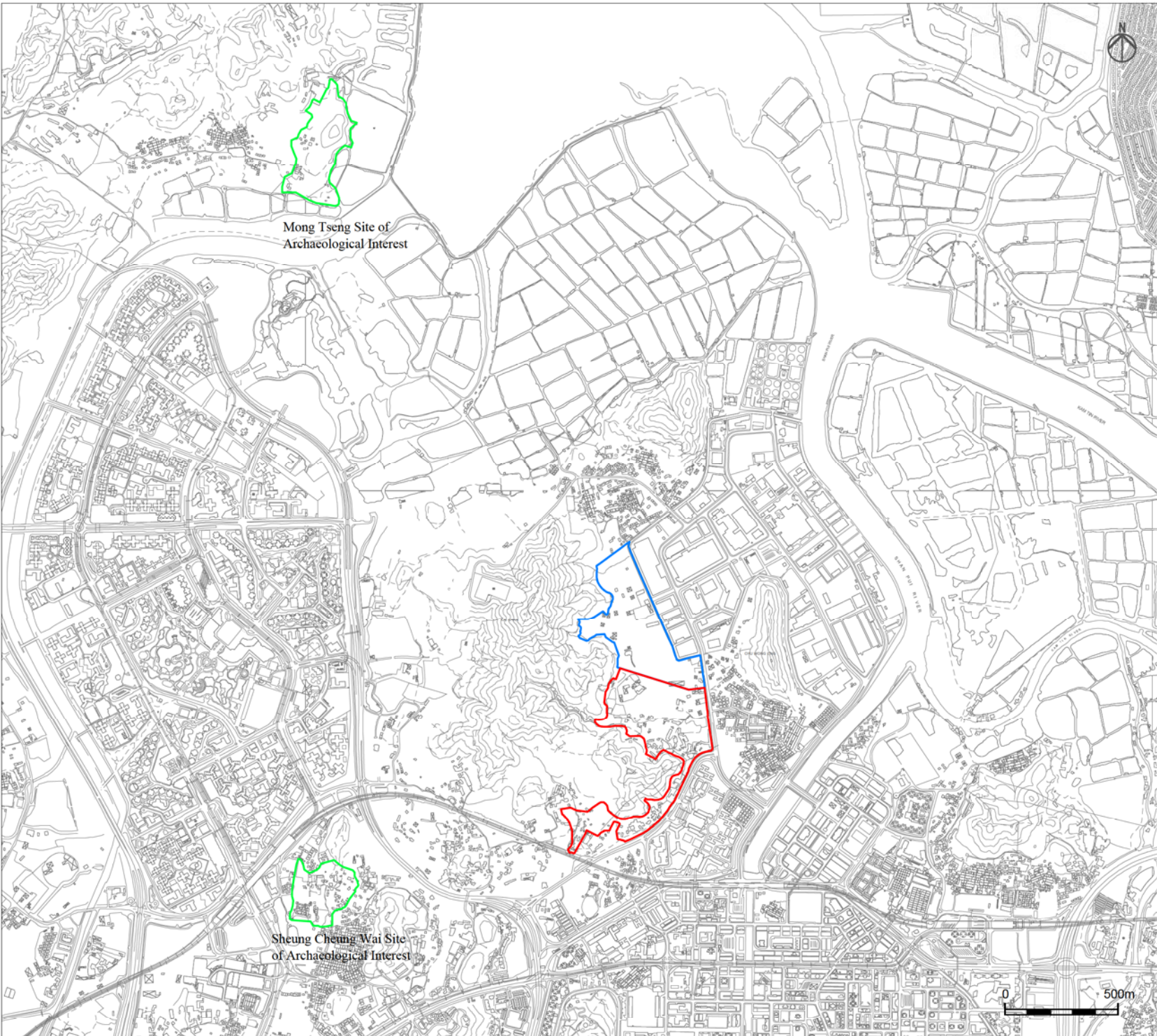
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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Site of Archaeological Interest

Mong Tseng Site of Archaeological Interest

Sheung Cheung Wai Site of Archaeological Interest

A	FIRST ISSUE	GL	11/13
Rev	Description	By	Date

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Project title  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
Mong Tseng and Sheung Cheung Wai Sites of Archaeological Interest

Drawing no.	Figure 13.2			Rev.	A
Drawn	GL	Date	11/13	Checked	IL
Scale	AS SHOWN		Status	PRELIMINARY	

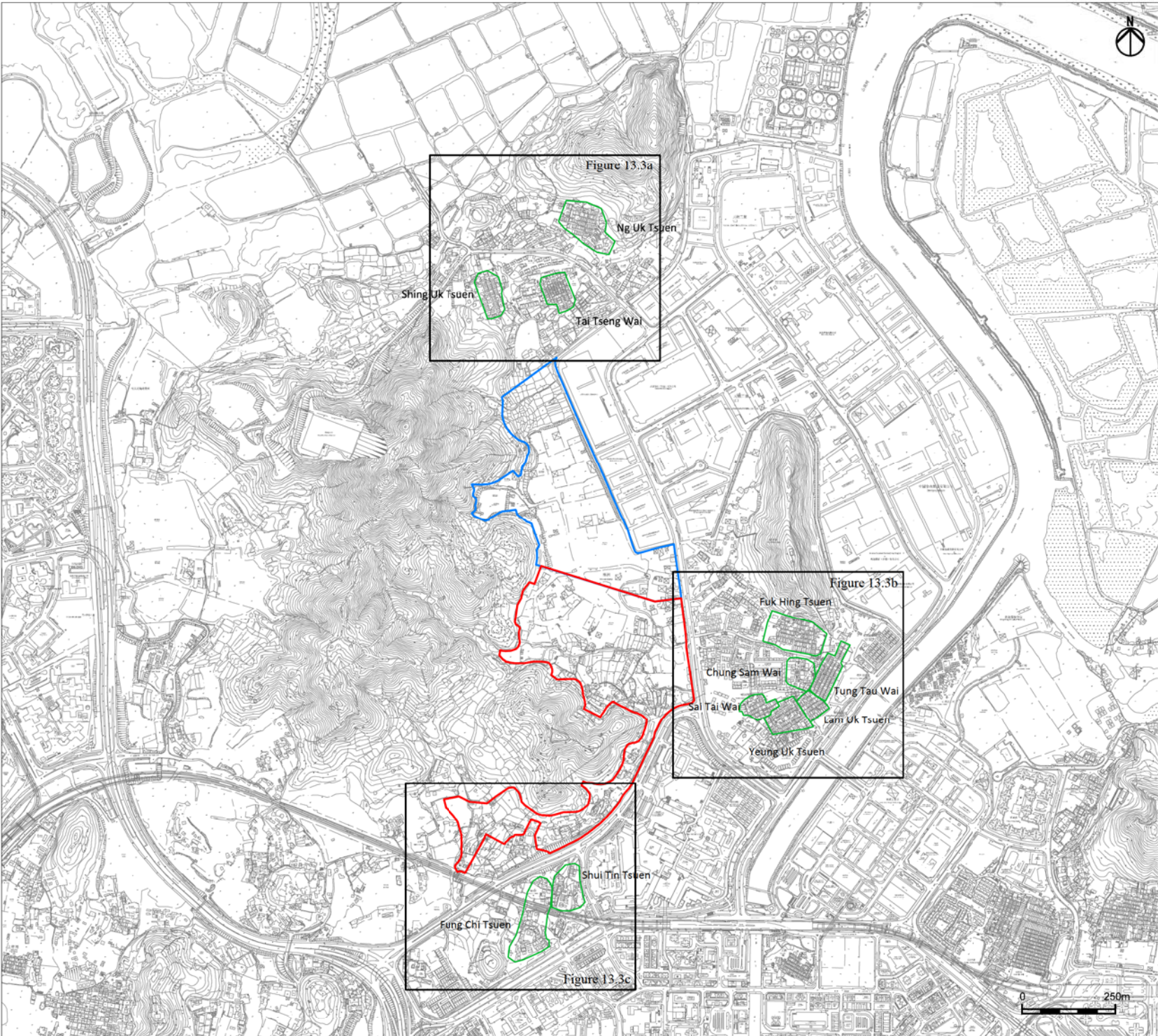


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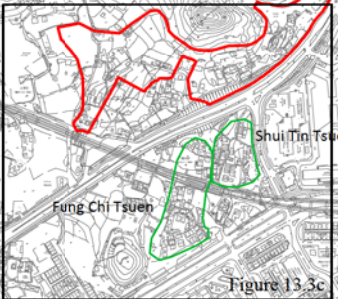
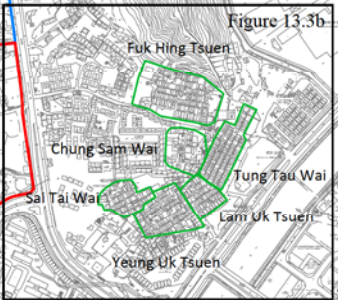
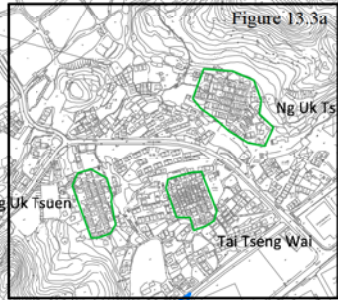








- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Historic Villages



A	FIRST ISSUE	GL	11/13
Rev	Description	By	Date

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Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Location of Historic Villages

Drawing no.	Figure 13.3				Rev.	A
Drawn	GL	Date	11/13	Checked	IL	Approved
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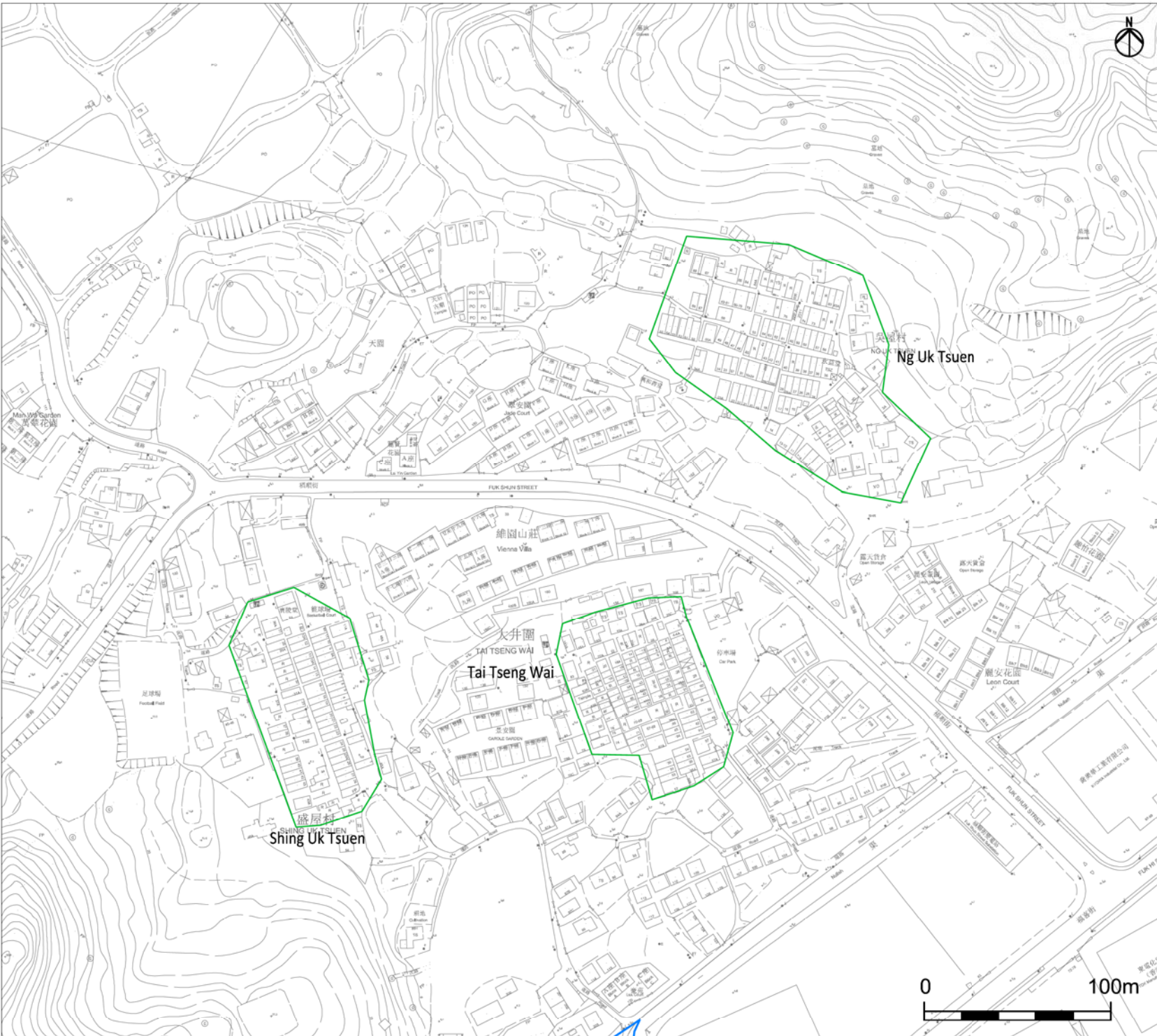
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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Historic Villages

A	FIRST ISSUE	GL	11/13
Rev	Description	By	Date
Consultant			

**ARUP**

Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Location of Historic Villages

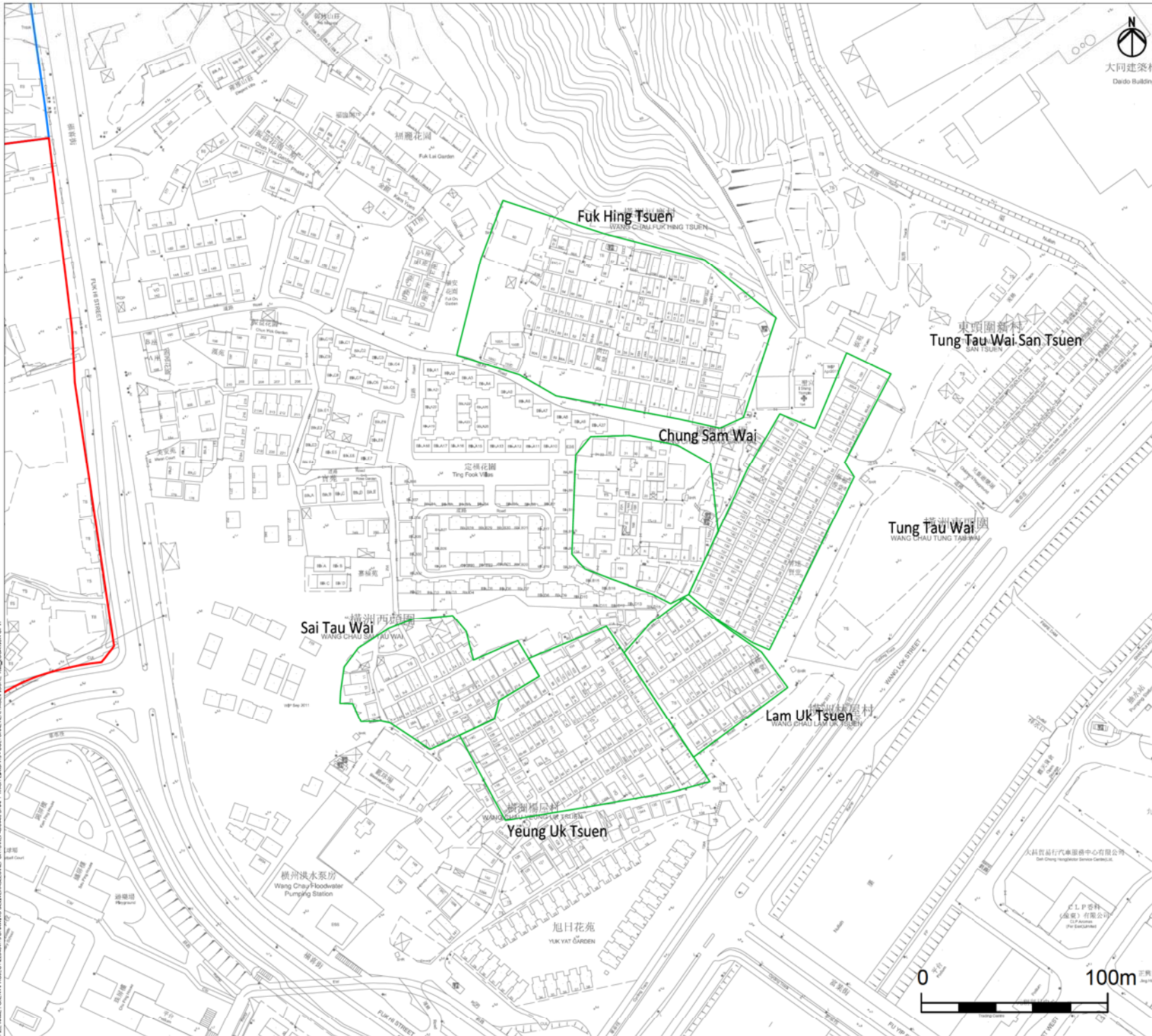
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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Historic Villages

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A	FIRST ISSUE	GL	11/13
Rev	Description	By	Date

Consultant

# ARUP

Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Locations of Historic Villages

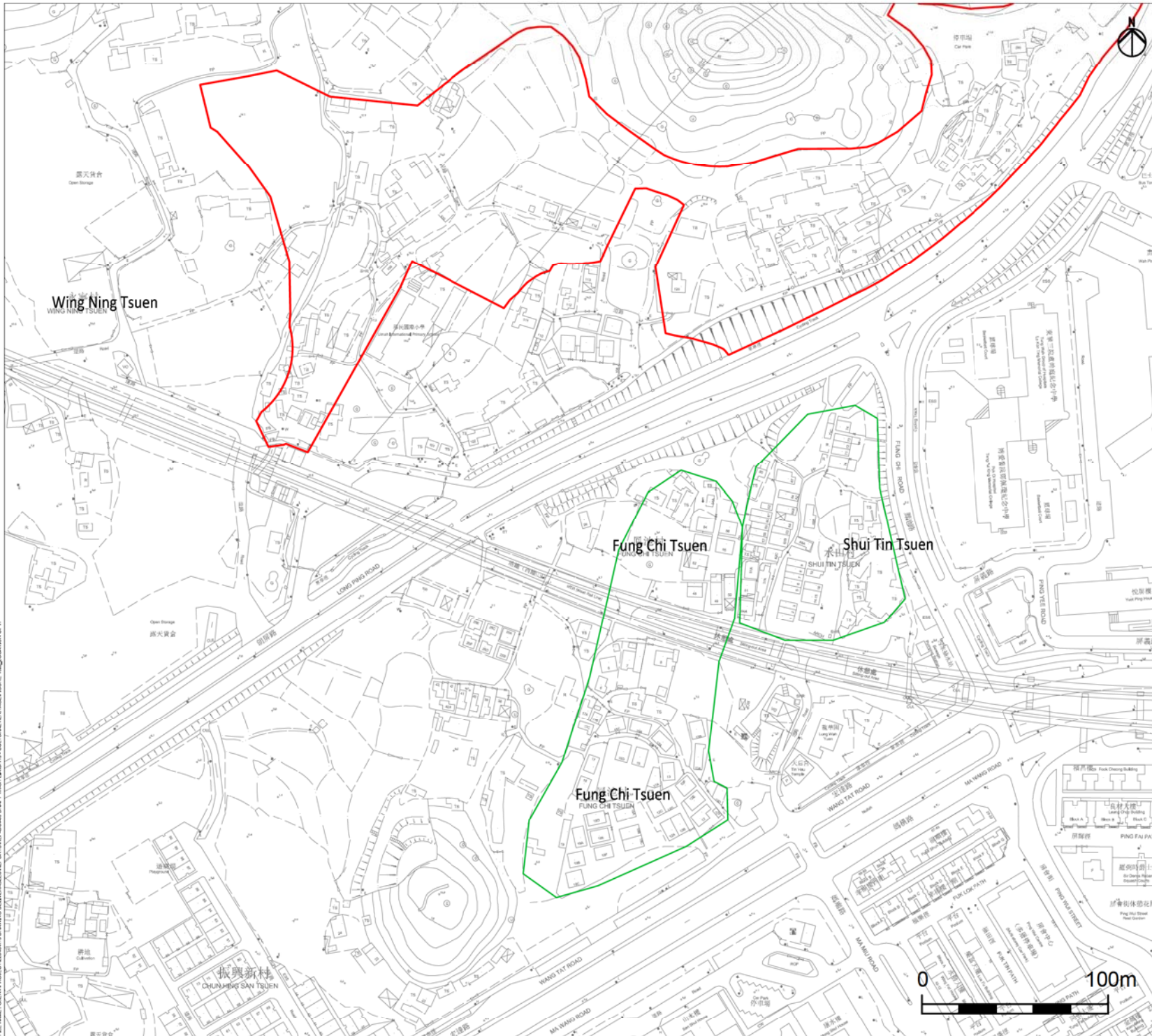
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				Approved	ST
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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Historic Villages

A	FIRST ISSUE	GL	11/13
Rev	Description	By	Date

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# ARUP

Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Location of Historic Villages

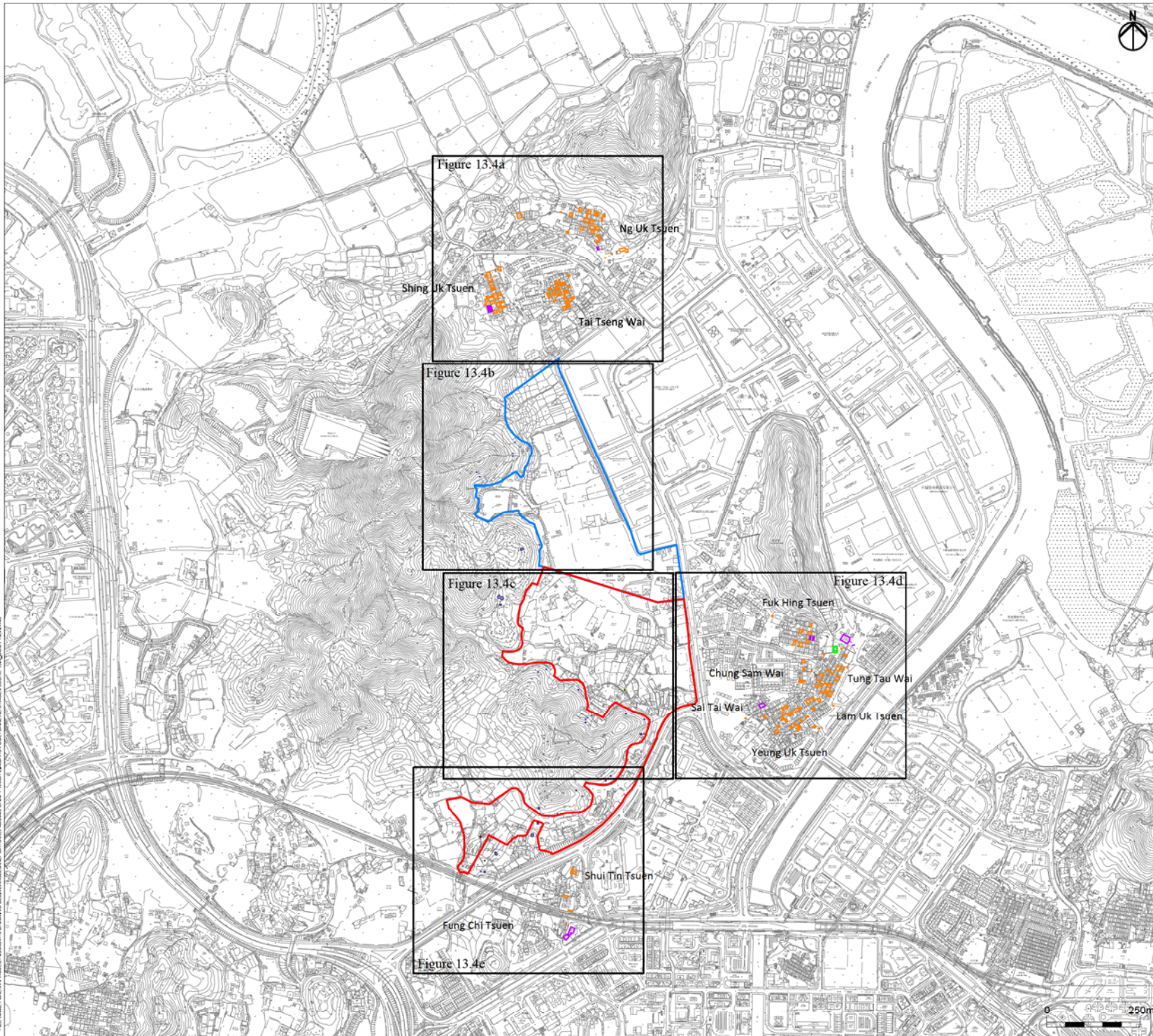
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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Declared Monuments (DM)
  - Graded Historic Buildings (GB)
  - Ungraded Built Heritage Resources (HB)
  - Grave (G)
  - Shrine (S)
  - Well and Shrine (W)



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Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Built Heritage Resources

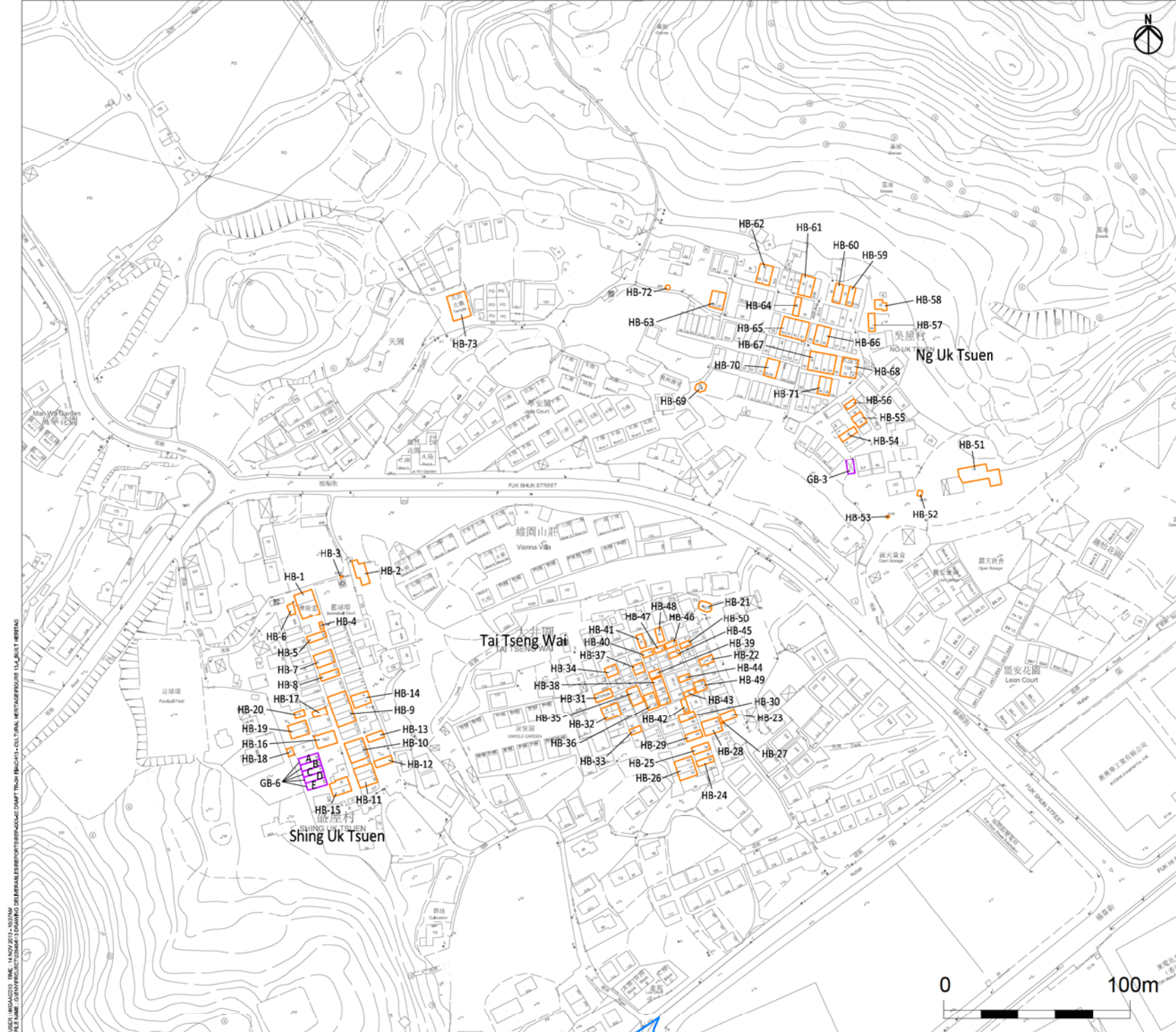
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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Declared Monuments (DM)
  - Graded Historic Buildings (GB)
  - Ungraded Built Heritage Resources (HB)
  - Grave (G)
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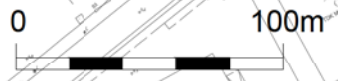
Drawing title  
 Built Heritage Resources

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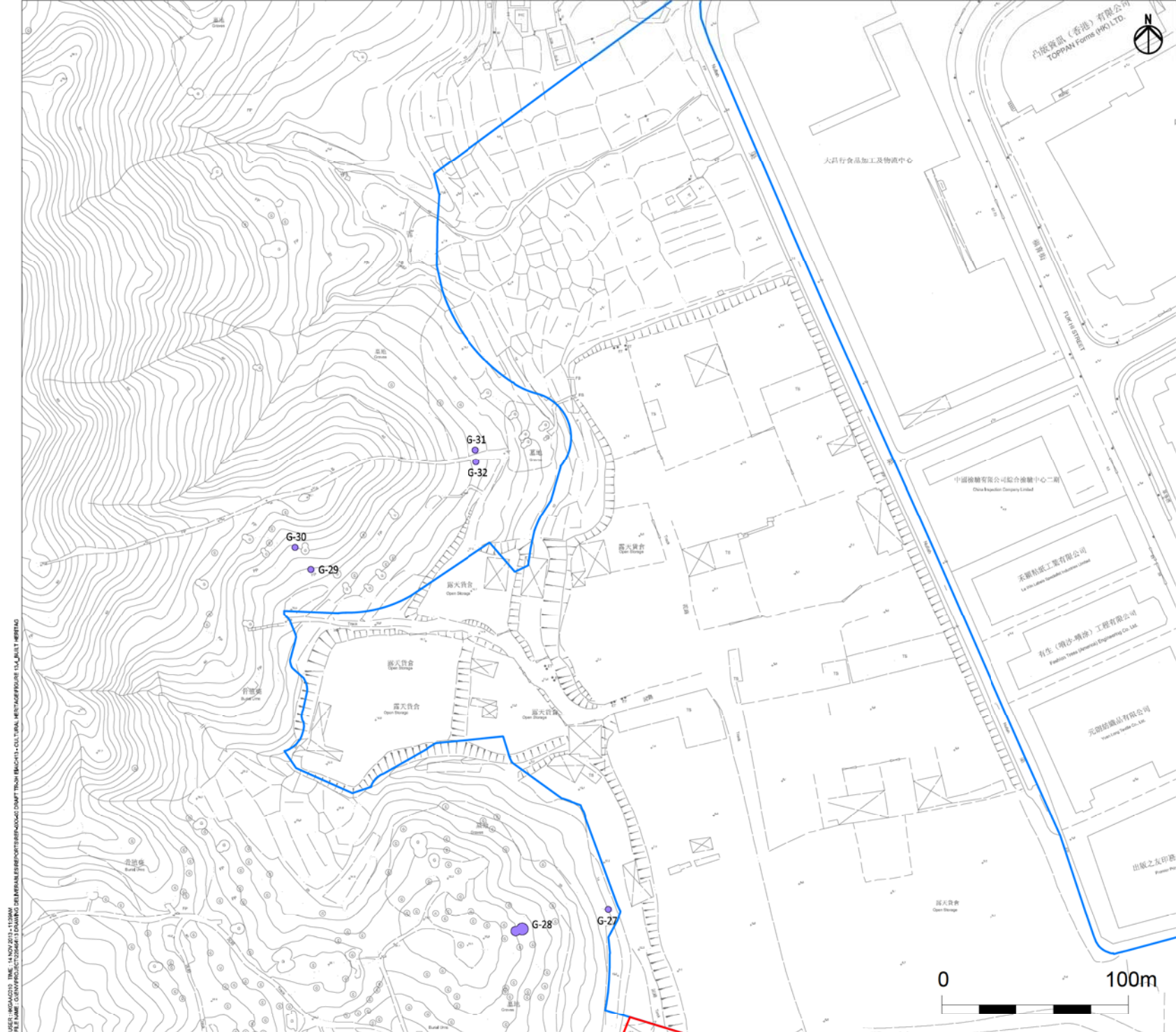
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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Declared Monuments (DM)
  - Graded Historic Buildings (GB)
  - Ungraded Built Heritage Resources (HB)
  - Grave (G)
  - Shrine (S)
  - Well and Shrine (W)

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Project title  
 Agreement No. CB20120293  
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Drawing title  
**Built Heritage Resources**

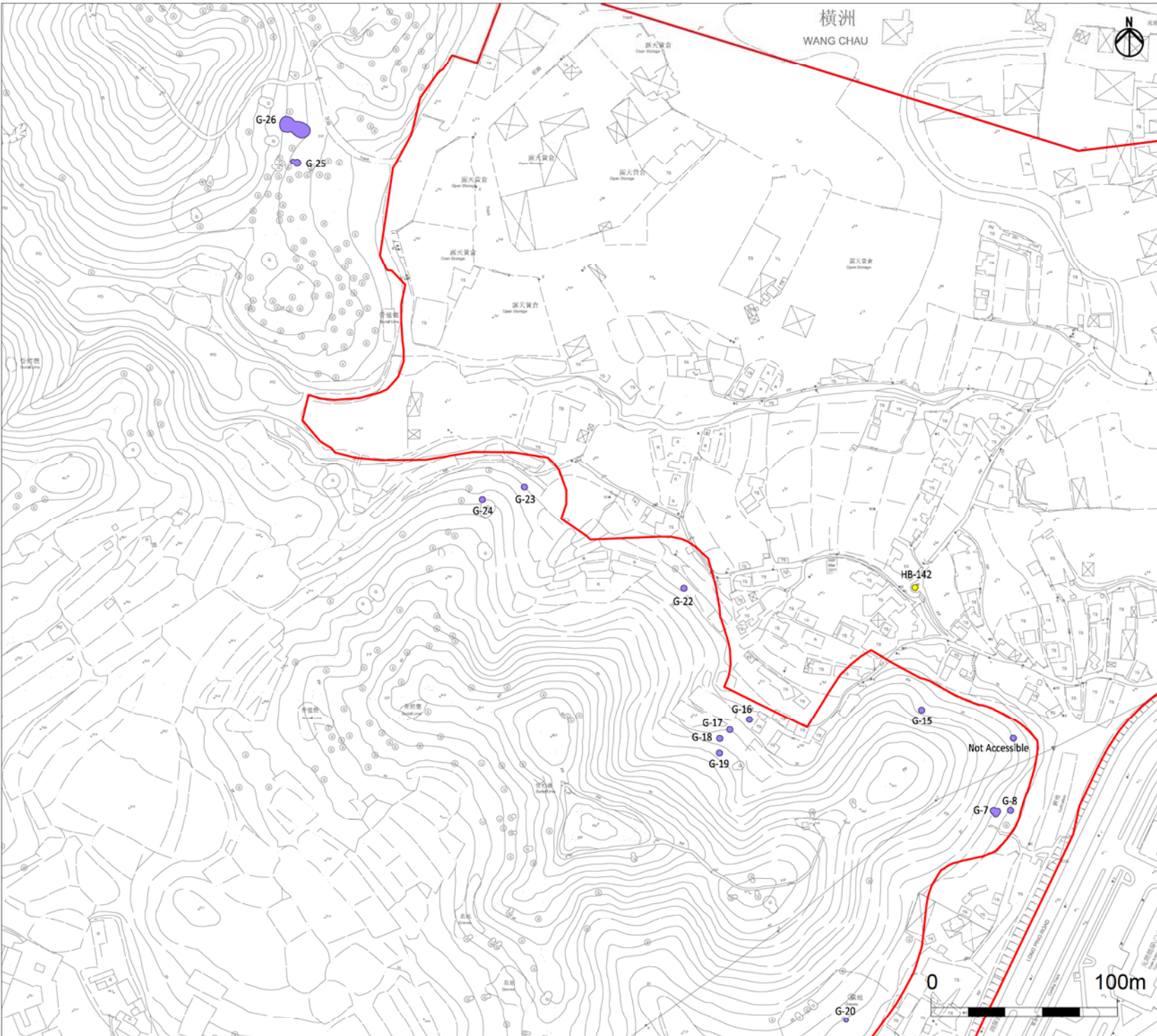
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**Legend**

- Public Housing Site (PH Site)
- Yuen Long Industrial Estate Extension (YLIEE Site)
- Declared Monuments (DM)
- Graded Historic Buildings (GB)
- Ungraded Built Heritage Resources (HB)
- Grave (G)
- Shrine (S)
- Well and Shrine (W)

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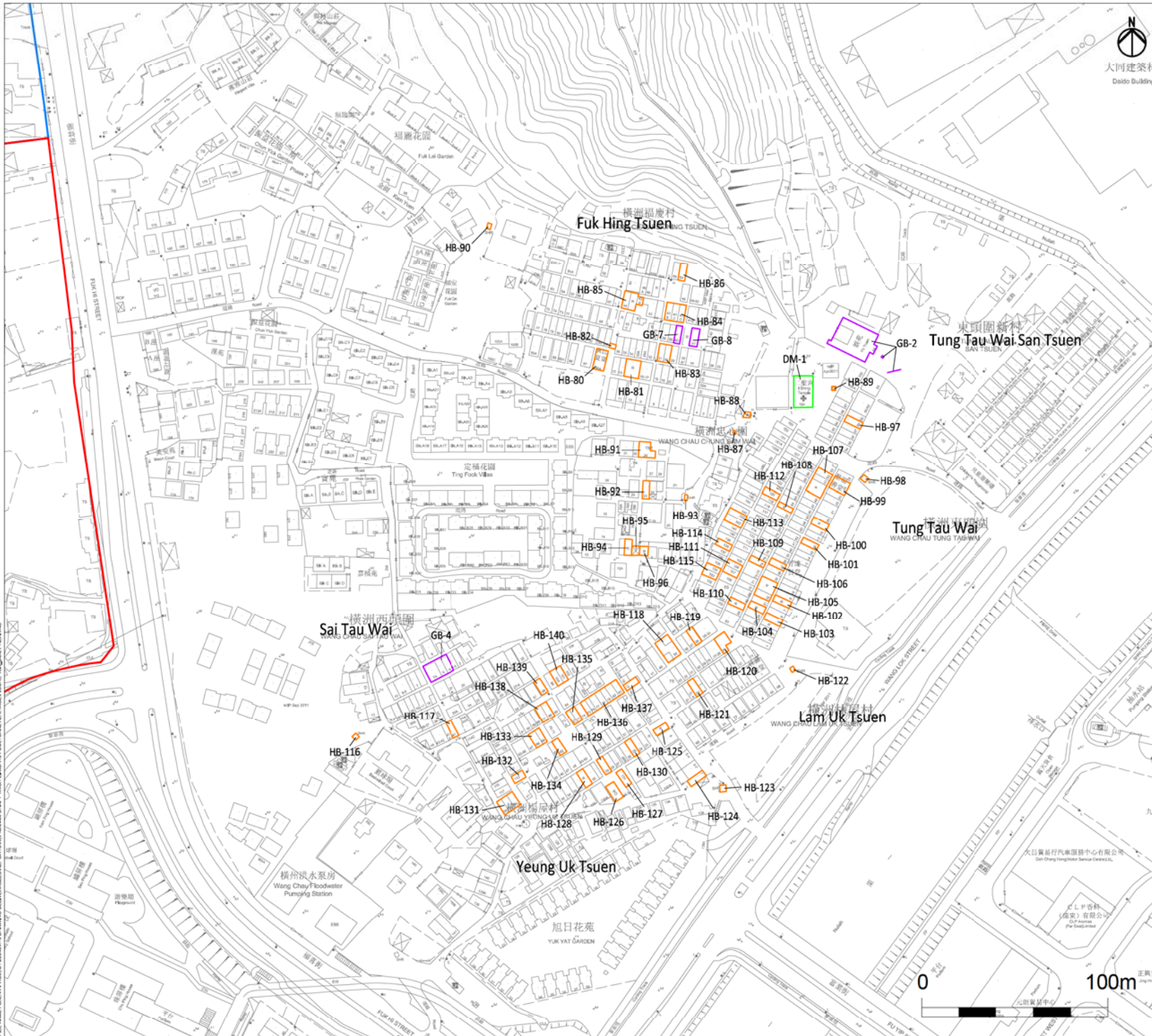
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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Declared Monuments (DM)
  - Graded Historic Buildings (GB)
  - Ungraded Built Heritage Resources (HB)
  - Grave (G)
  - Shrine (S)
  - Well and Shrine (W)

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Project title  
Agreement No. CB20120293  
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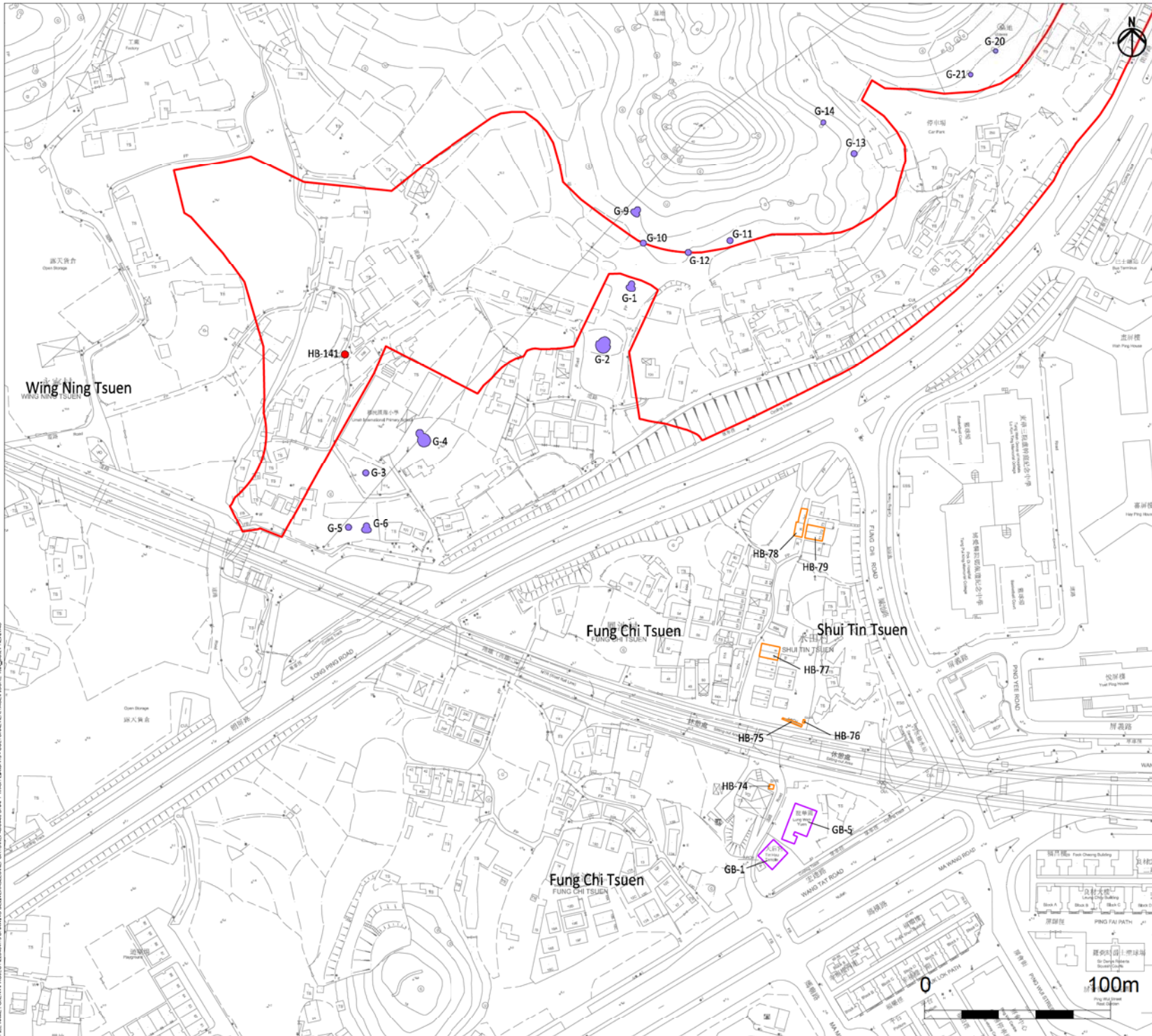
Drawing title  
**Built Heritage Resources**

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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Declared Monuments (DM)
  - Graded Historic Buildings (GB)
  - Ungraded Built Heritage Resources (HB)
  - Grave (G)
  - Shrine (S)
  - Well and Shrine (W)

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Drawing title  
**Built Heritage Resources**

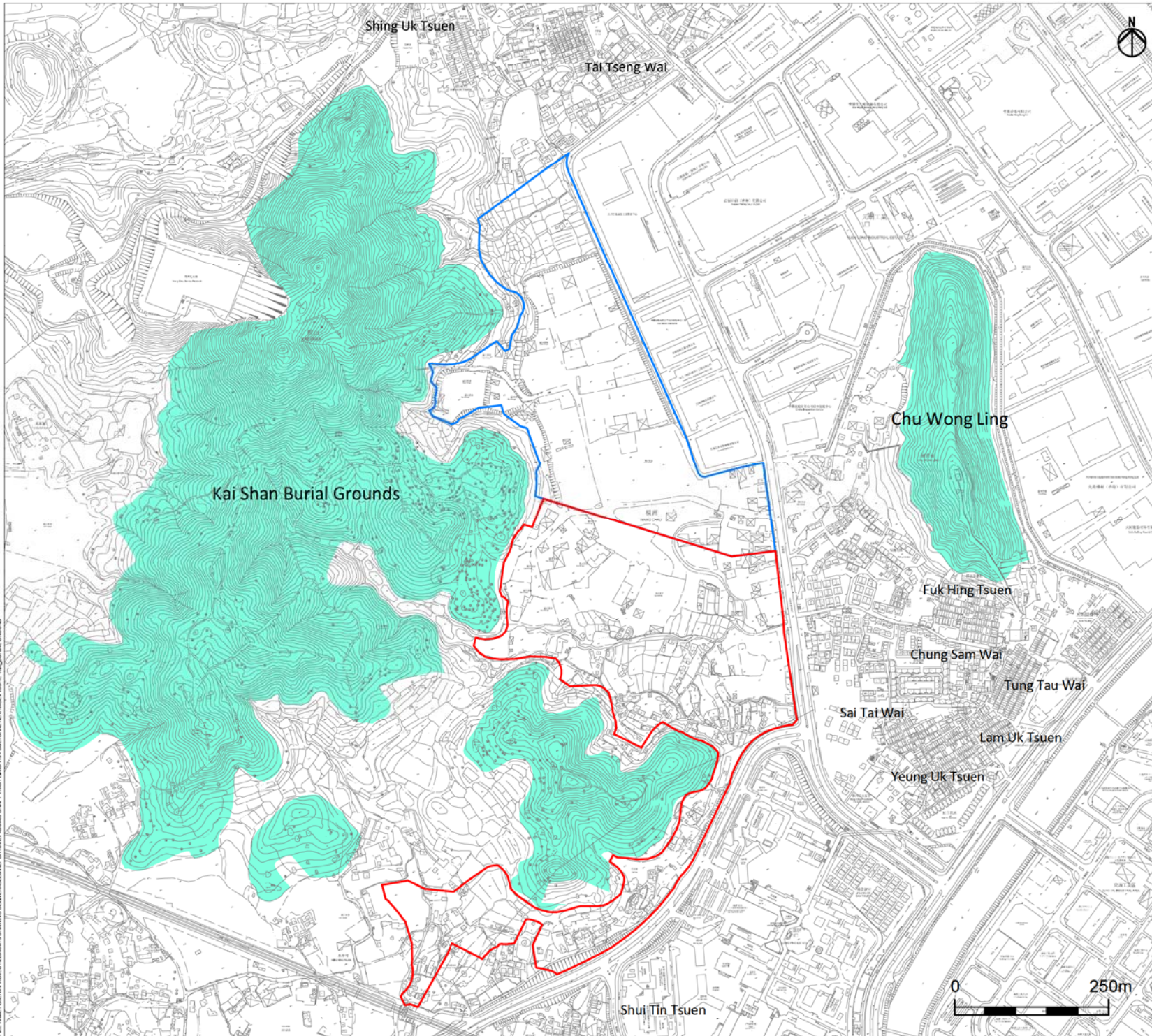
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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Historic Villages



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Drawing title  
**Burial Grounds**

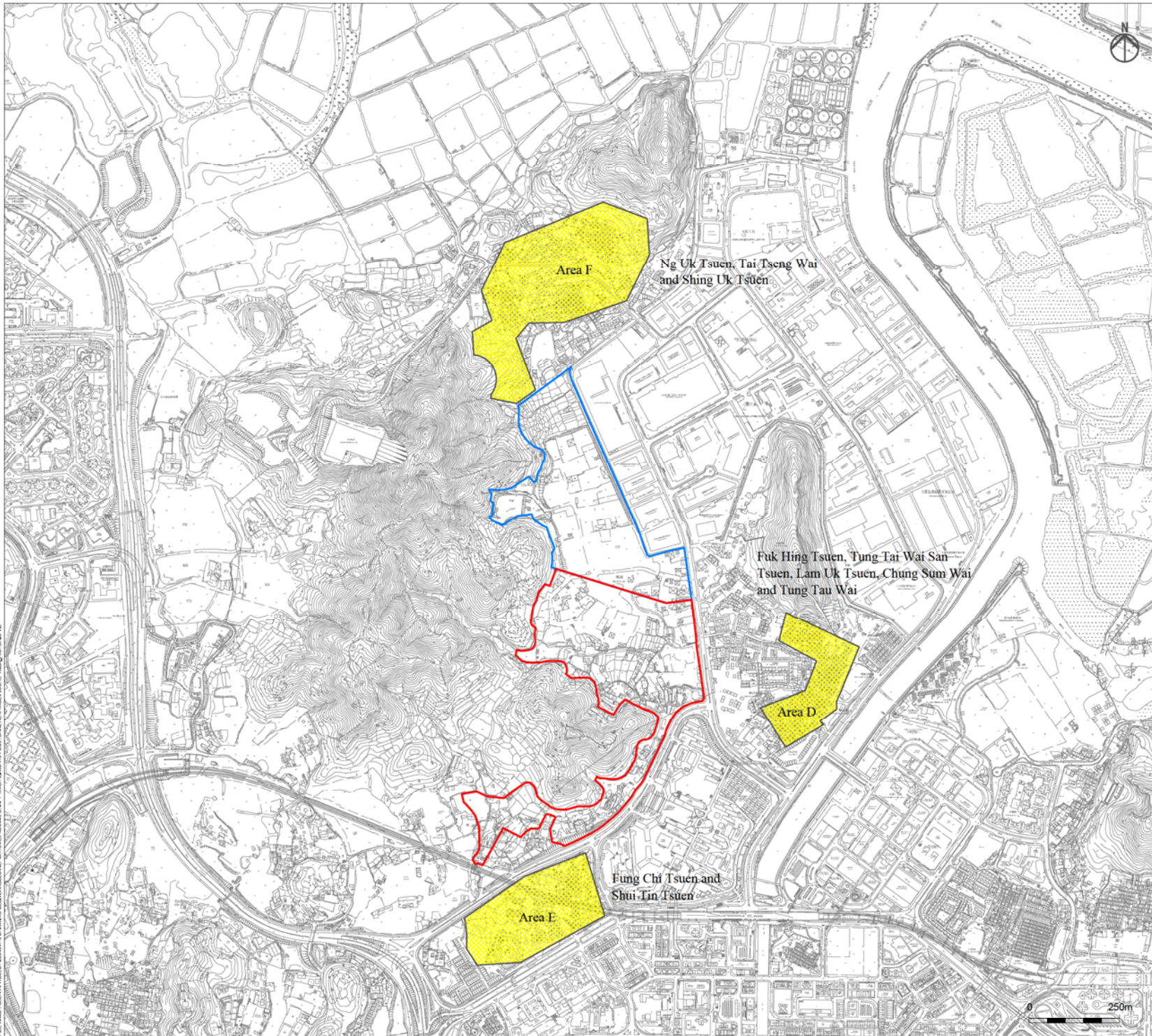
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- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Historic Villages and Archaeological No-go Areas

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Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Historic Villages and Archaeological No-go Areas

Drawing no.	Figure 13.6a			Rev.	A
Drawn	GL	Date	11/13	Checked	IL
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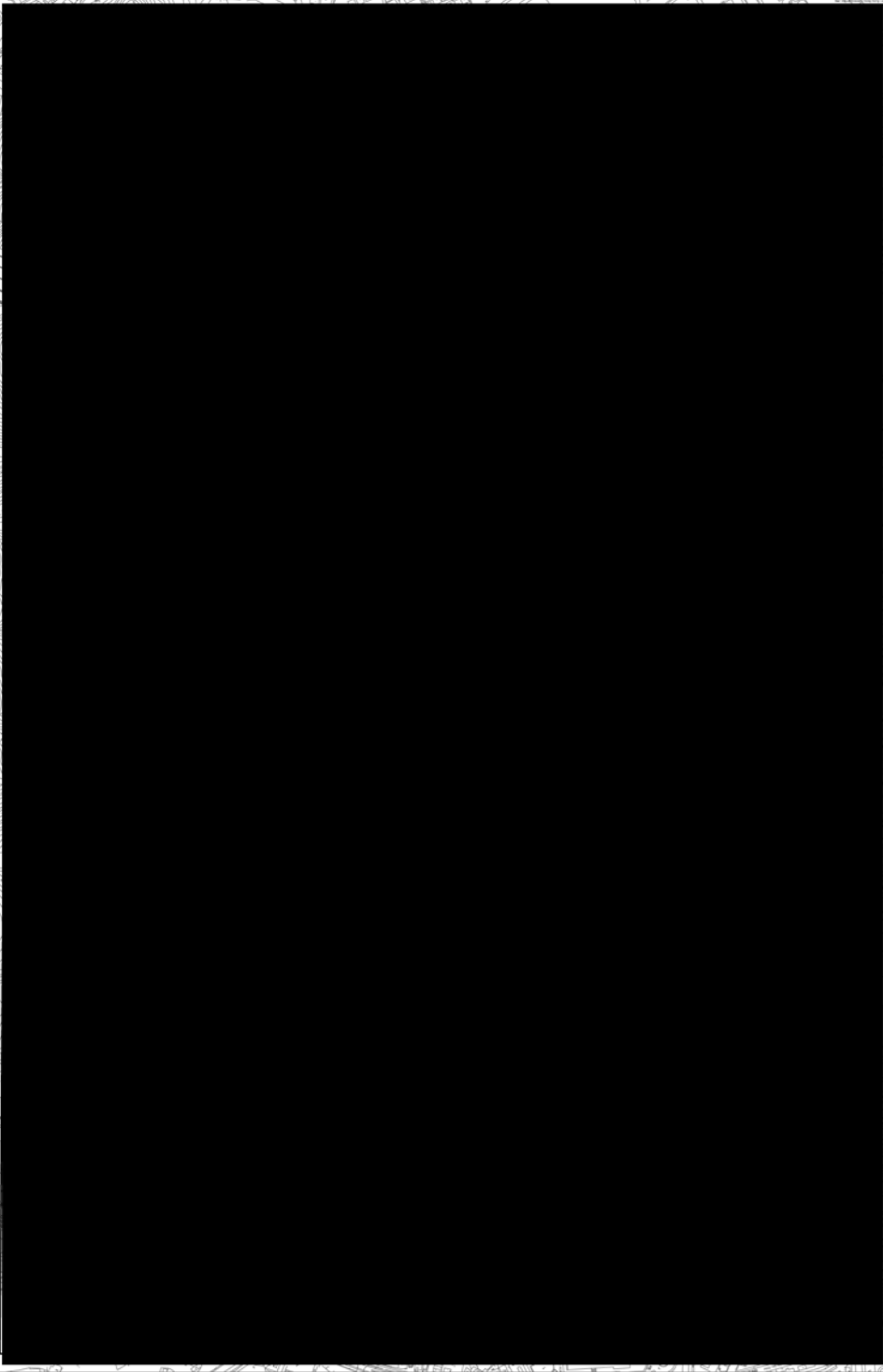
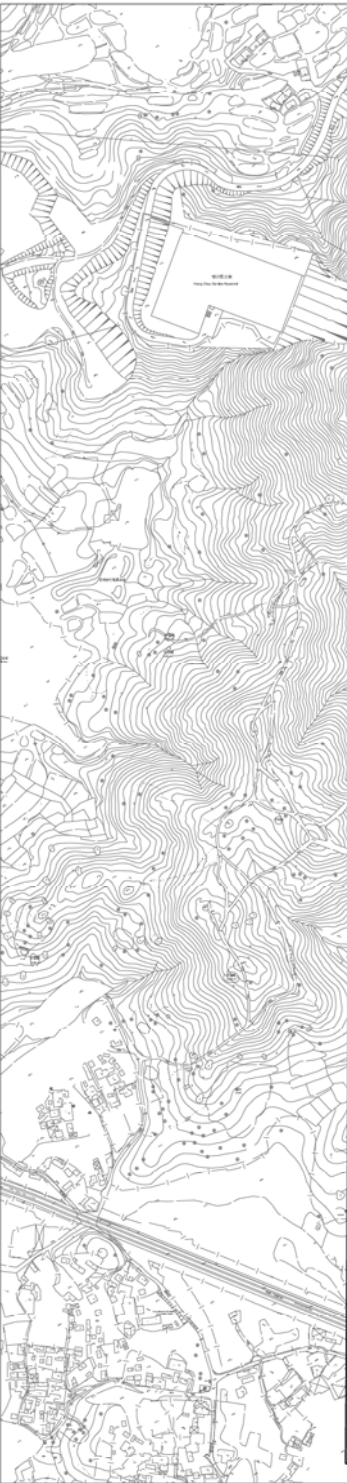
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 FILE NAME: CONN\PROJECT\2014\13 DRAWING\2014\13\REPORTS\BIBLI\0000\0001\TCON\BATCH13 - CULTURAL HERITAGE\FIGURE 13.6b AREA IDENTIF



- Legend**
- Public Housing Site (PH Site)
  - Yuen Long Industrial Estate Extension (YLIEE Site)
  - Old Schedule Lot (OSL)
  - Old New Grant Lot (ONG)
  - New Grant Lot (NNG)
  - Short Term Tenancy (STT)
  - Government Land Licence (GLL)
  - Permanent Government Land Allocation (GLA)
  - Area of Interest within Project Boundary
  - Area of Interest Outside Project Boundary

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Drawing title  
 Area Identified for Archaeological Field Survey

Drawing no.	Figure 13.6b			Rev.	B
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