

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**

Draft Technical Report No.2 (TR-2)  
Option Generation, Evaluation and  
Preliminary Assessments

Figures

May 2013

**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.

226464

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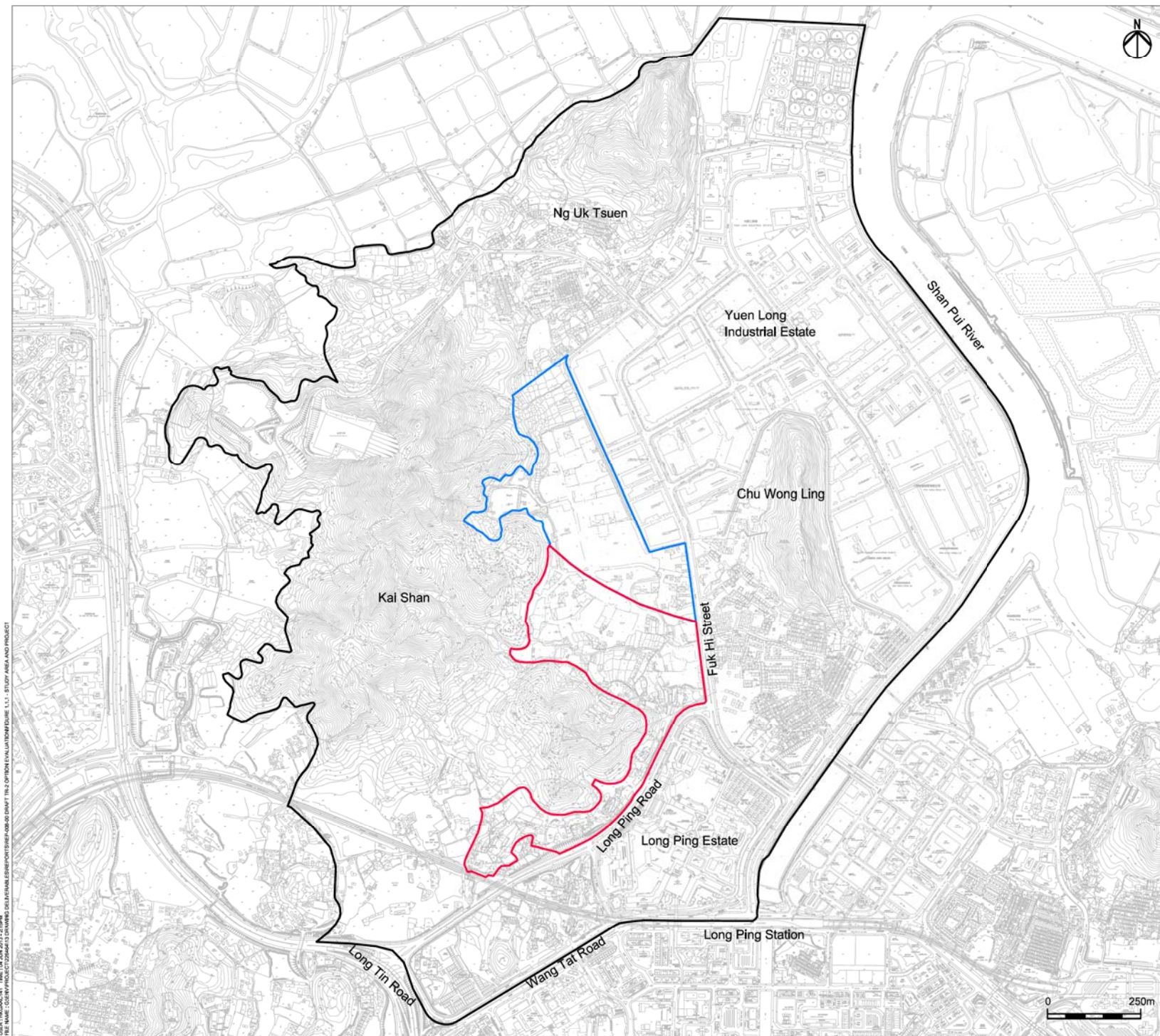
Job number 226464

**ARUP**

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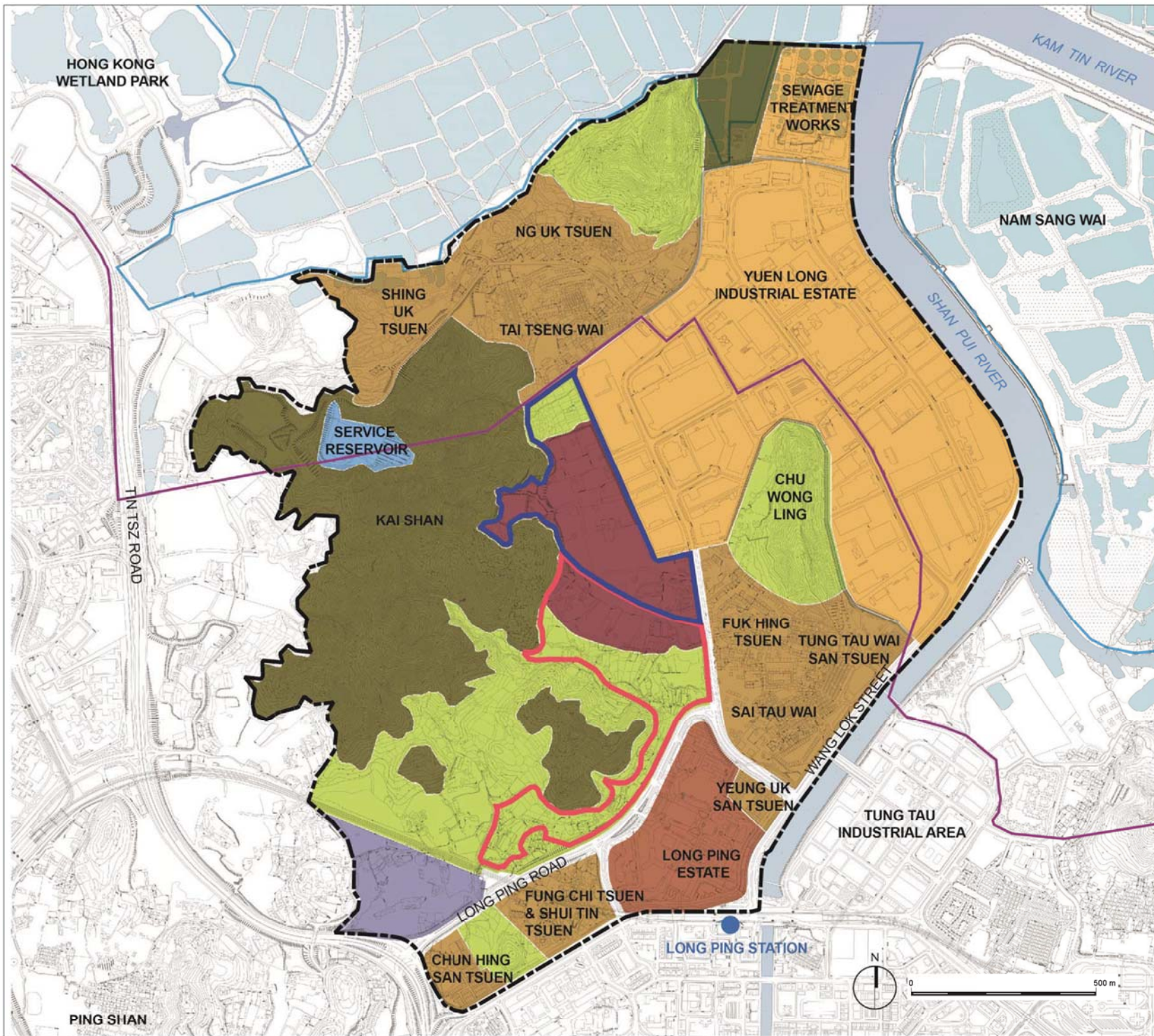


- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension

USER: A002AC416 TIME: 05 JUN 2013 10:29:09  
 FILE NAME: C:\SHP\PROJECT\20064111\DRAWING\DELIVERABLES\FORTHEP\08-000 DRAFT TR2 OPTION EVALUATION\FIGURE\_1.1.1 - STUDY AREA AND PROJECT

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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			
<b>Study Area and Project Site</b> (Original in Project Brief)			
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Figure 1.1.1		A	
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**LEGEND**

- N
- Study Area
  - Boundary of Public Housing (PH) Site as Stated in the Brief
  - Boundary of Yuen Long Industrial Estate Extension (YLIEE) Site as Stated in the Brief
  - Boundary of Wetland Conservation Area
  - Boundary of Wetland Buffer Area
- OZP (SYL-PS/14, SYL/21 & SYL-LFS/7) - Zones**
- Conservation Area (CA)
  - Green Belt (GB)
  - Government, Institution, or Community (G/C)
  - Residential (Group A) (R(A))
  - Village Type Development (V)
  - Comprehensive Development Area (CDA)
  - Other Specified Uses (OU)
  - Open Storage (OS)

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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  
 Statutory Land Use Zoning & Boundaries of Wetland Conservation Area & Wetland Buffer Area

Drawing no. Figure 2.1.1 Rev. B

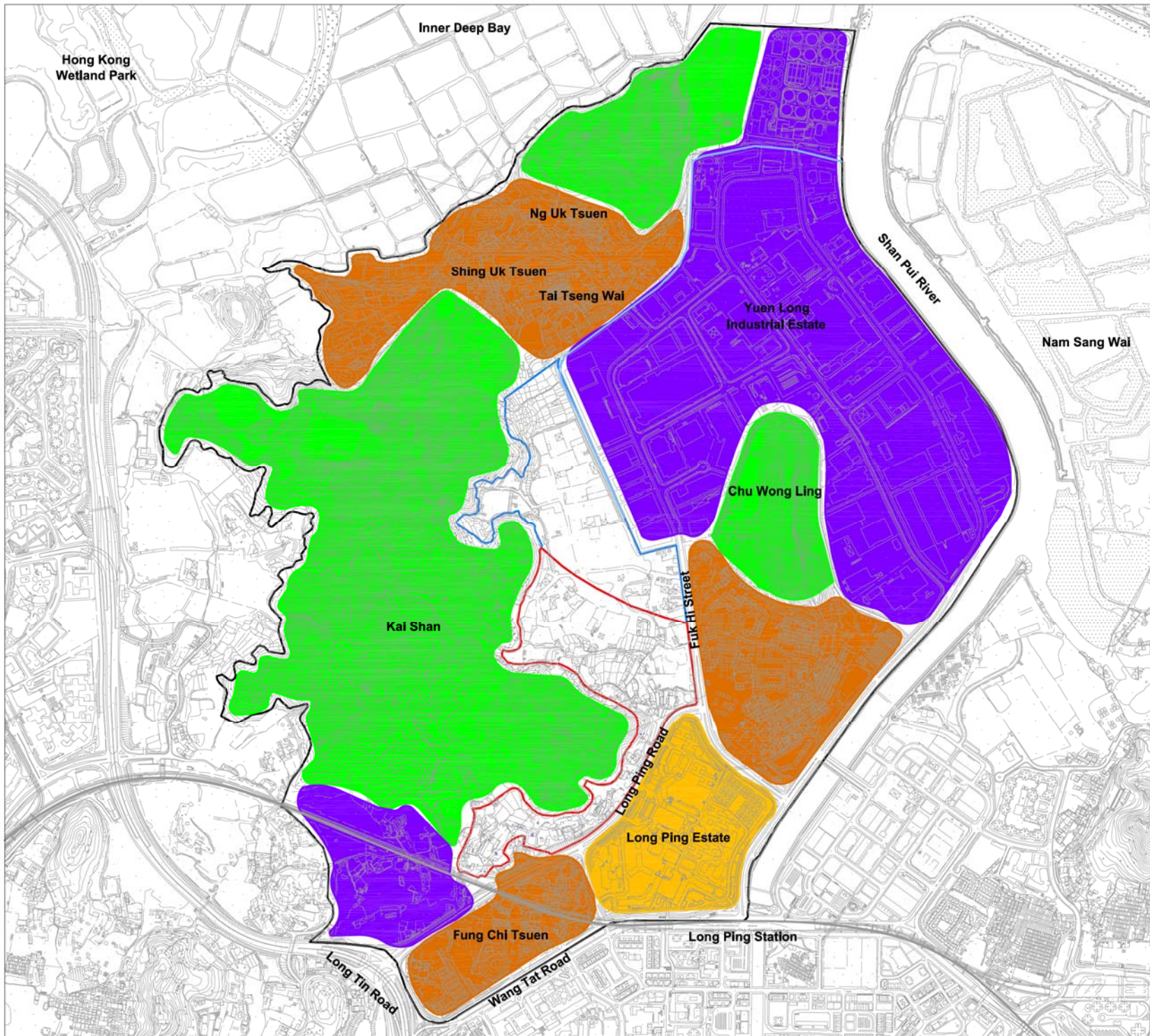
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**LEGEND**

-  Study Area
-  Boundary of Public Housing (PH) Site as Stated in the Brief
-  Boundary of Yuen Long Industrial Estate Extension (YLIEE) Site as Stated in the Brief
-  High Rise Residential Development
-  Villages and Low-Rise Residential Development
-  Natural Landscape
-  Industrial Uses
-  Nullah
-  MTR Railway Track (Elevated)

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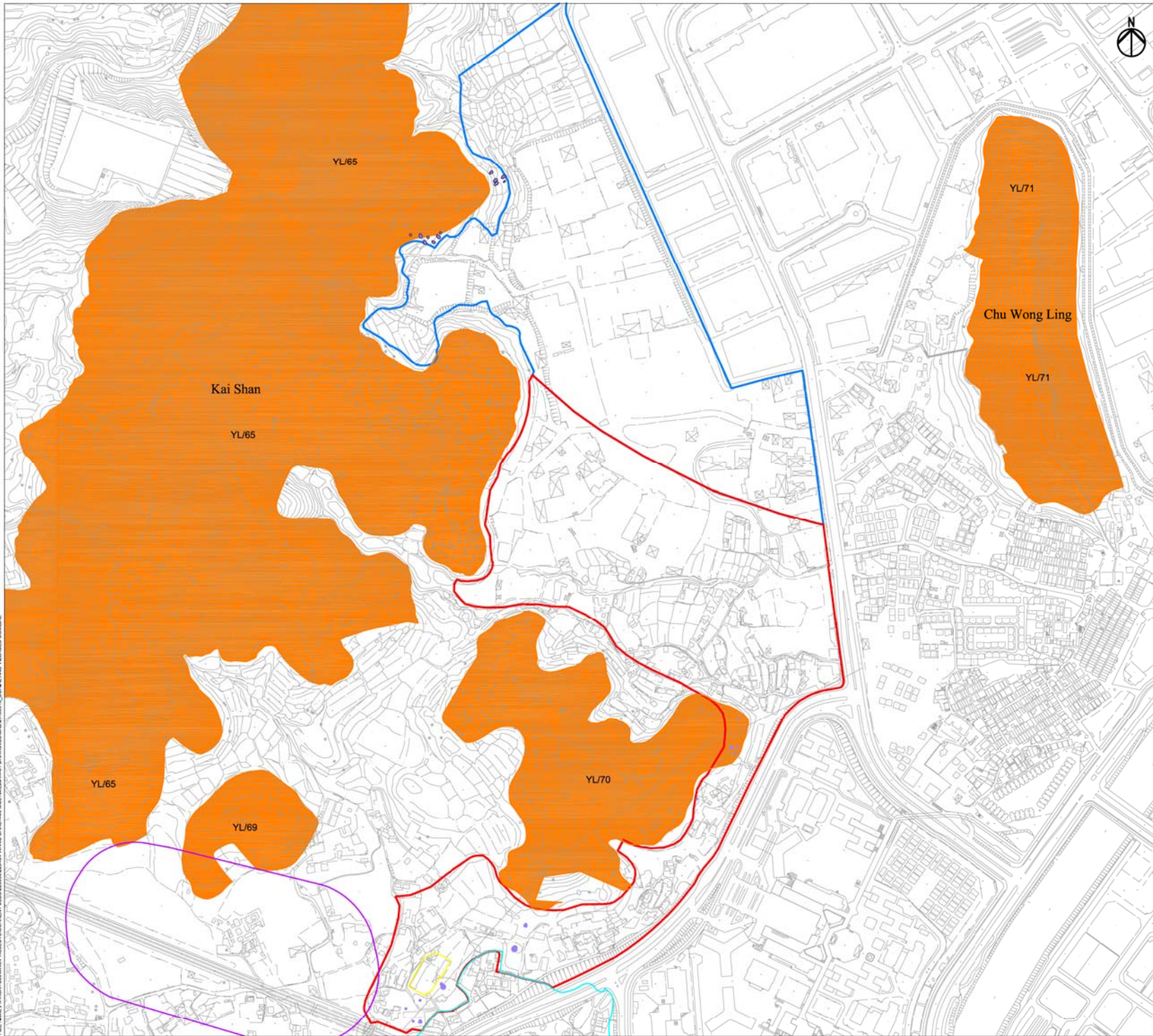
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 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Existing Land Uses and Developments

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**Legend**

- Boundary of Public Housing (PH) Site as Stated in the Brief
- Boundary of Yuen Long Industrial Estate Extension (YLIEE) Site as Stated in the Brief
- Burial Grounds
- Grave
- Village Environ of Wing Ning Tsuen (D.D 122)
- Village Environ of Fung Chi Tsuen and Shui Tin Tsuen (D.D 120 & 122)
- Umah International Primary School

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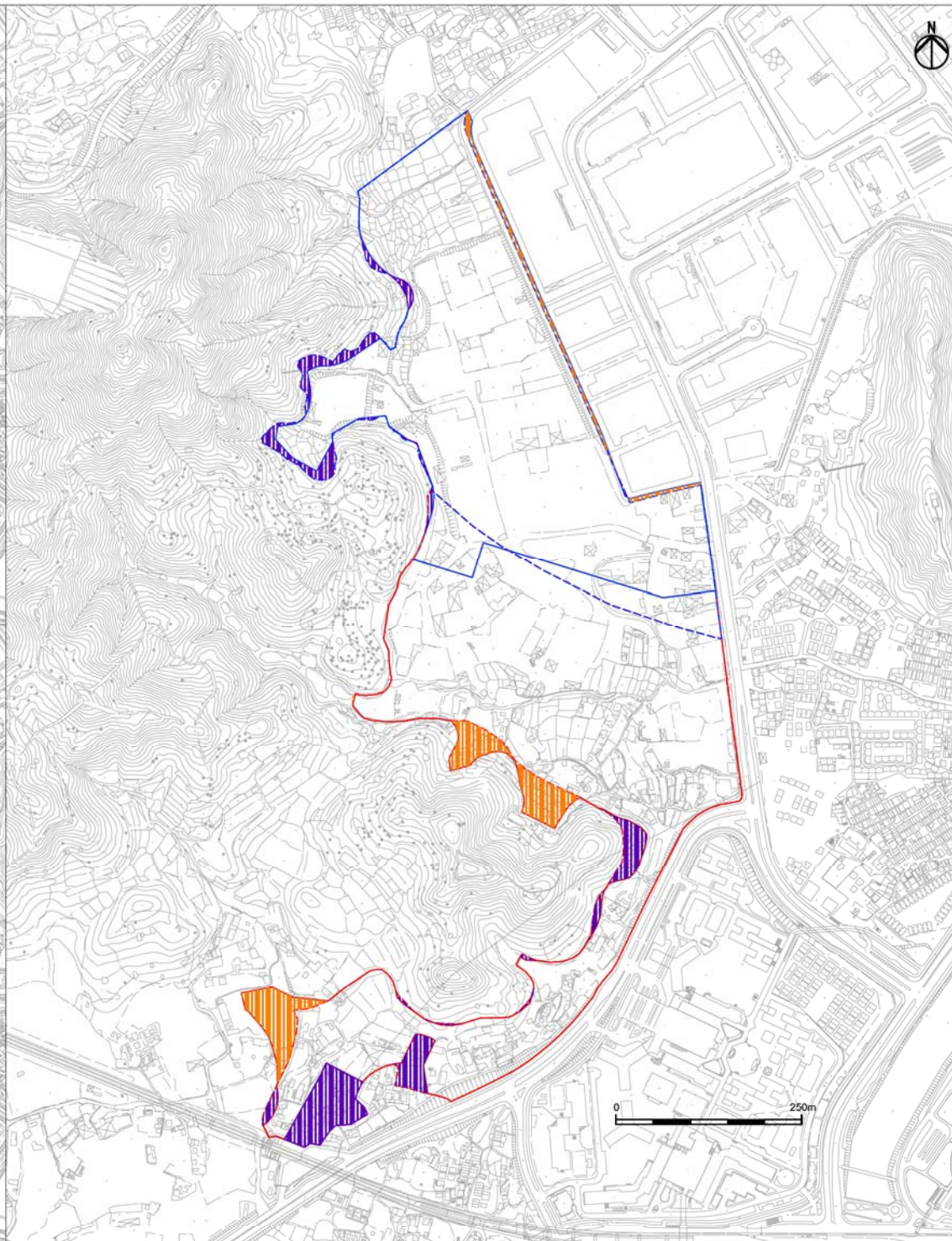
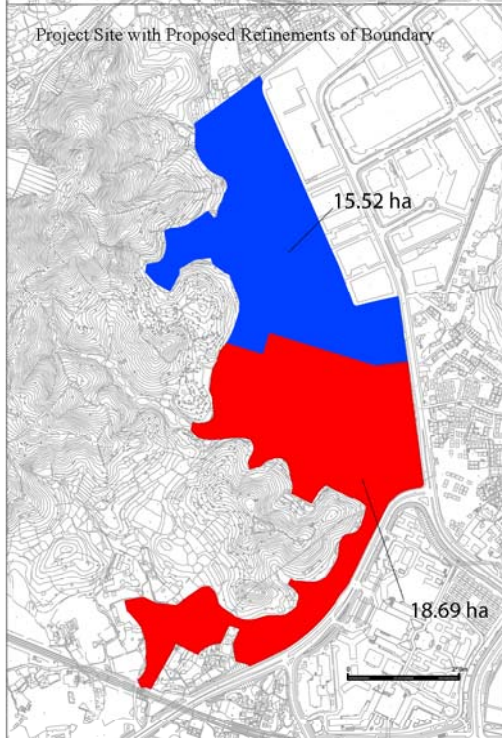
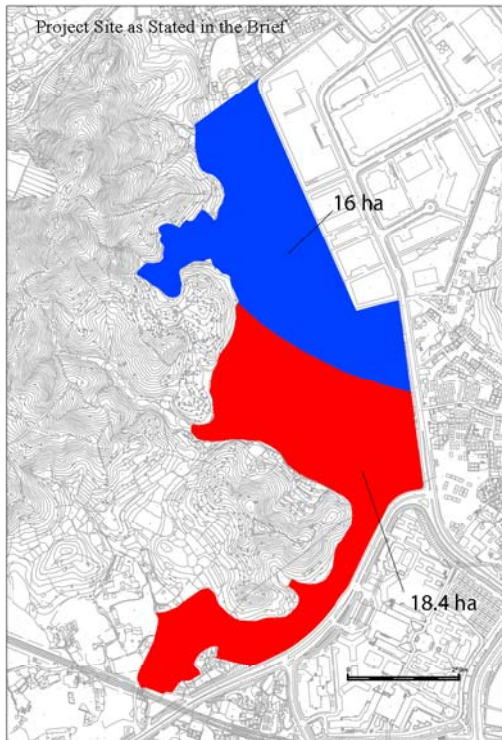
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 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
**Key Elements to be respected within the Project Site**

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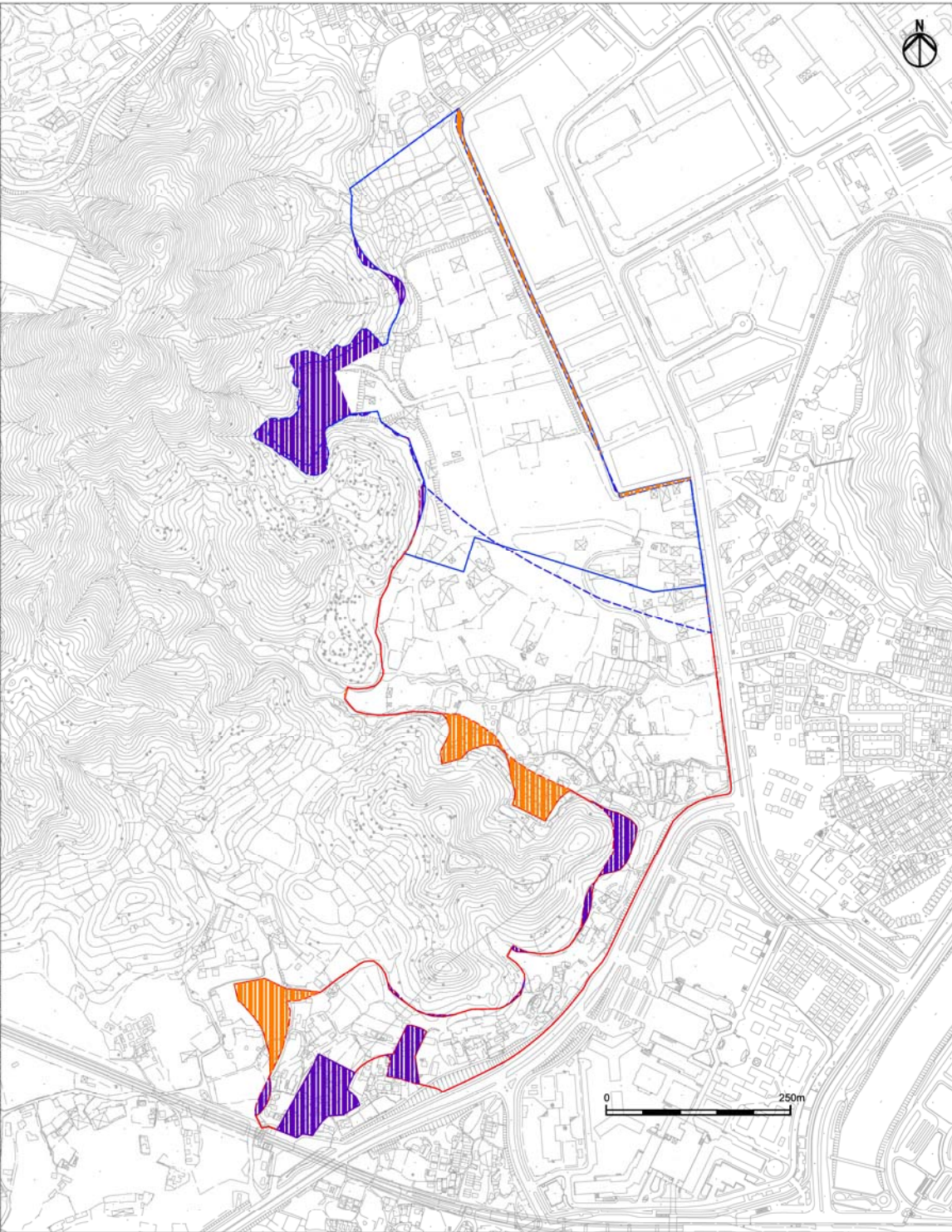
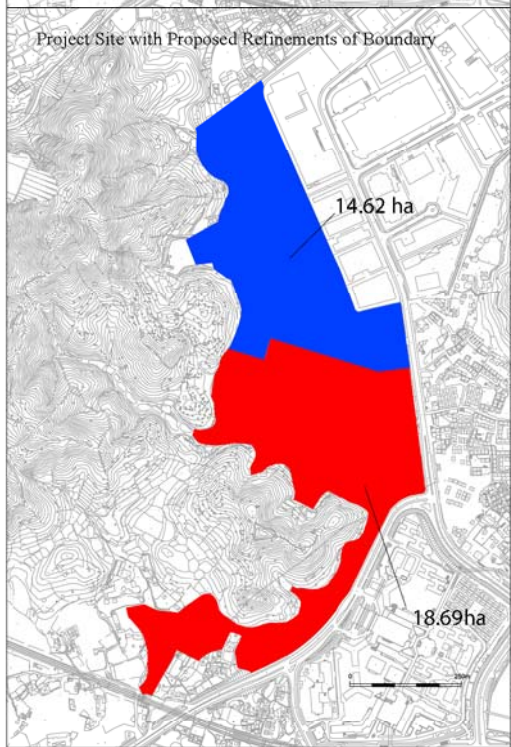
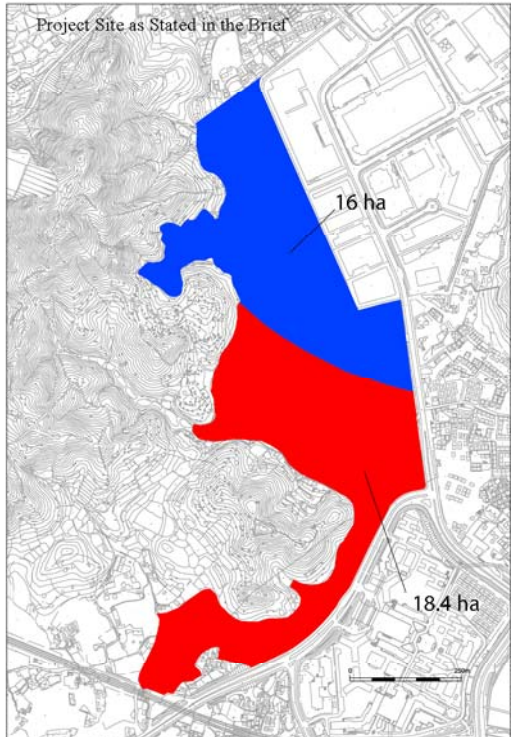




- Legend**
- Area of YLIEE Site
  - Area of PH Site
  - Area Proposed to be Added
  - Area Proposed to be Excluded
  - Boundary of YLIEE Site as stated in the Brief
  - Boundary of PH Site as Stated in the Brief
  - Proposed Boundary of YLIEE Site
  - Proposed Boundary of PH Site

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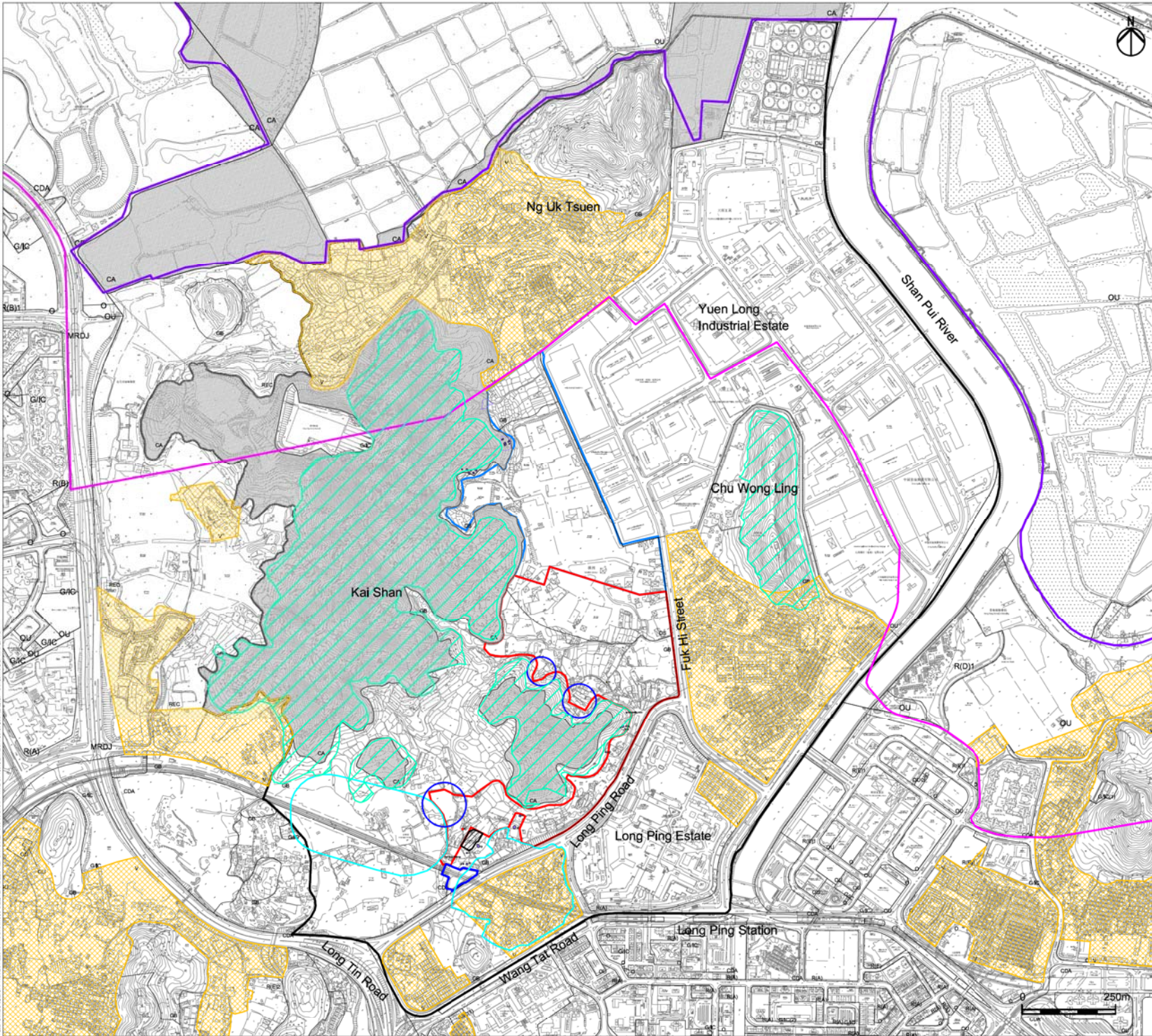




**Legend**

- Area of YLIEE Site
- Area of PH Site
- Area Proposed to be Added
- Area Proposed to be Excluded
- Boundary of YLIEE Site as stated in the Brief
- Boundary of PH Site as Stated in the Brief
- Proposed Boundary of YLIEE Site
- Proposed Boundary of PH Site

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- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Wetland Conservation Area (WCA)
  - Wetland Buffer Area (WBA)
  - Village Environment
  - Village Zone
  - Burial Ground
  - Graves
  - Shrine
  - Well & Shrine
  - West Rail Emergency Access Point
  - Umah International Primary School
  - Conservation Area
  - Area with Development Potential

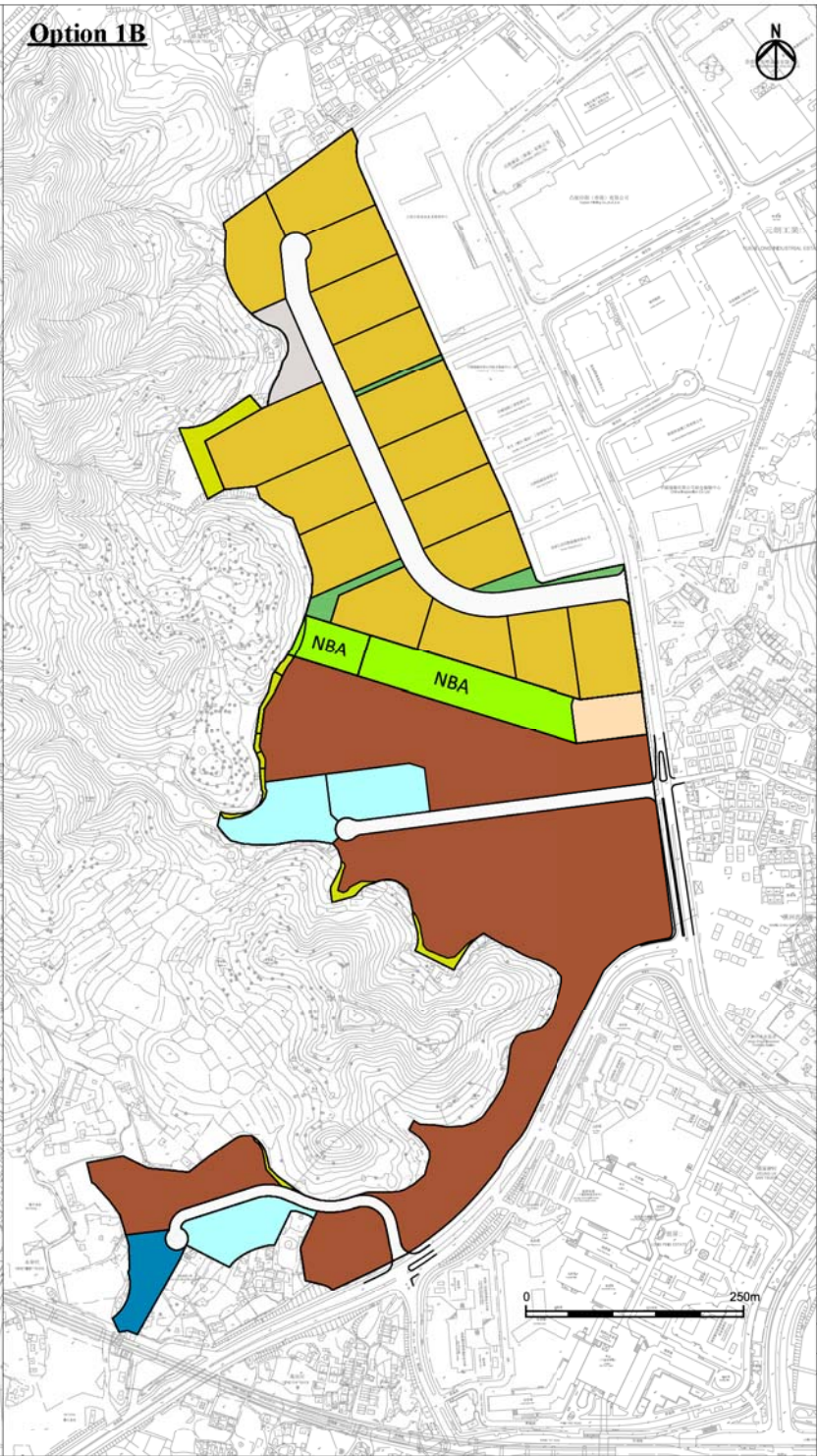
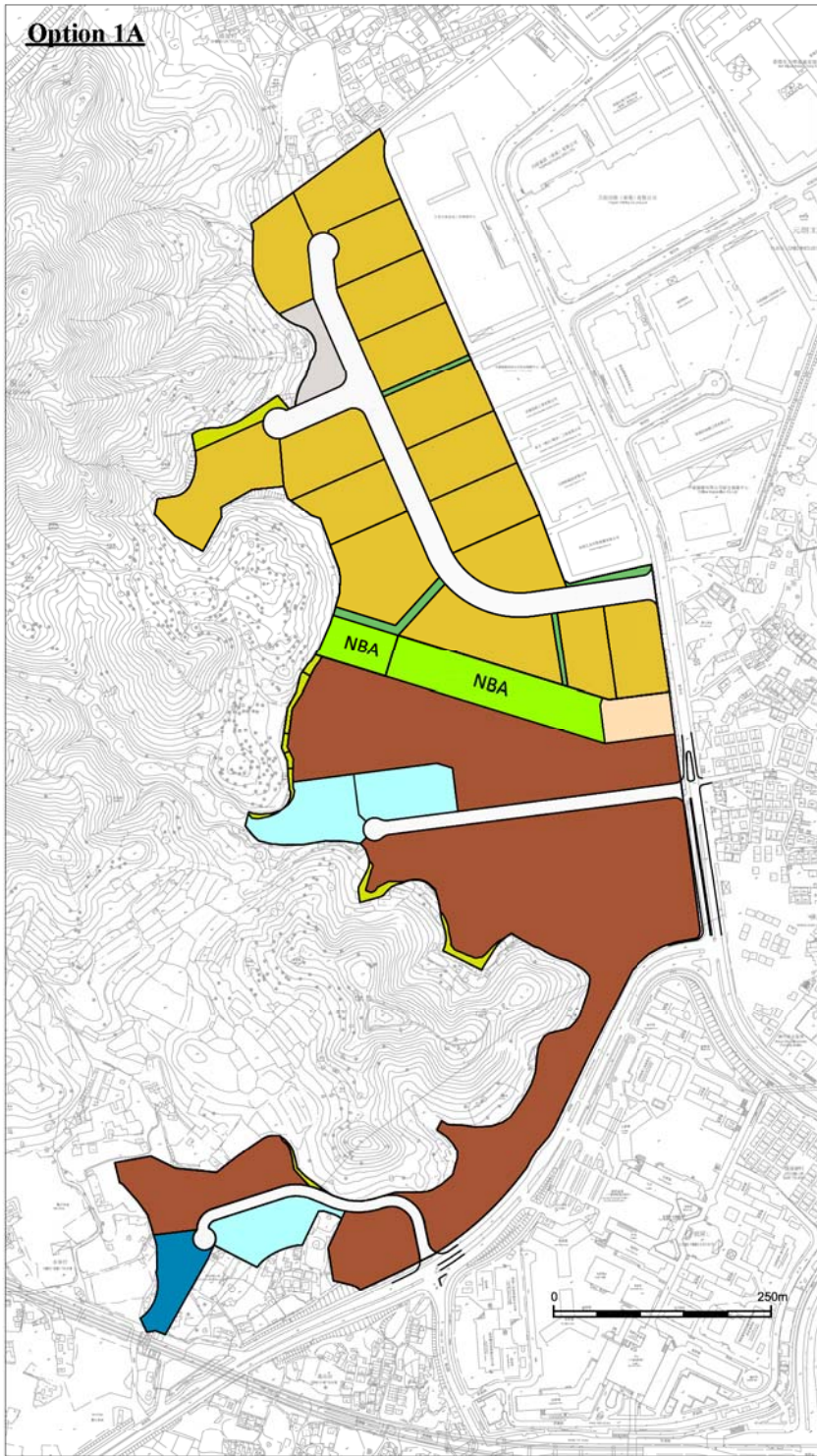
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Drawing title			
Constraint Map			
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**Option 1A**

**Option 1B**



**Legend**

- OU - Industrial Estate
- R1- Residential Zone 1
- Amenity Area in YLIEE
- Local Open Space
- Public Transportation Interchange
- School Sites
- GIC Site
- Parking Space
- Green Belt/Slope Area
- NBA** Non-Building Area

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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**  
 Land Use Plan Option 1A and 1B

Drawing no. Rev. D  
 Figure 2.4.1a

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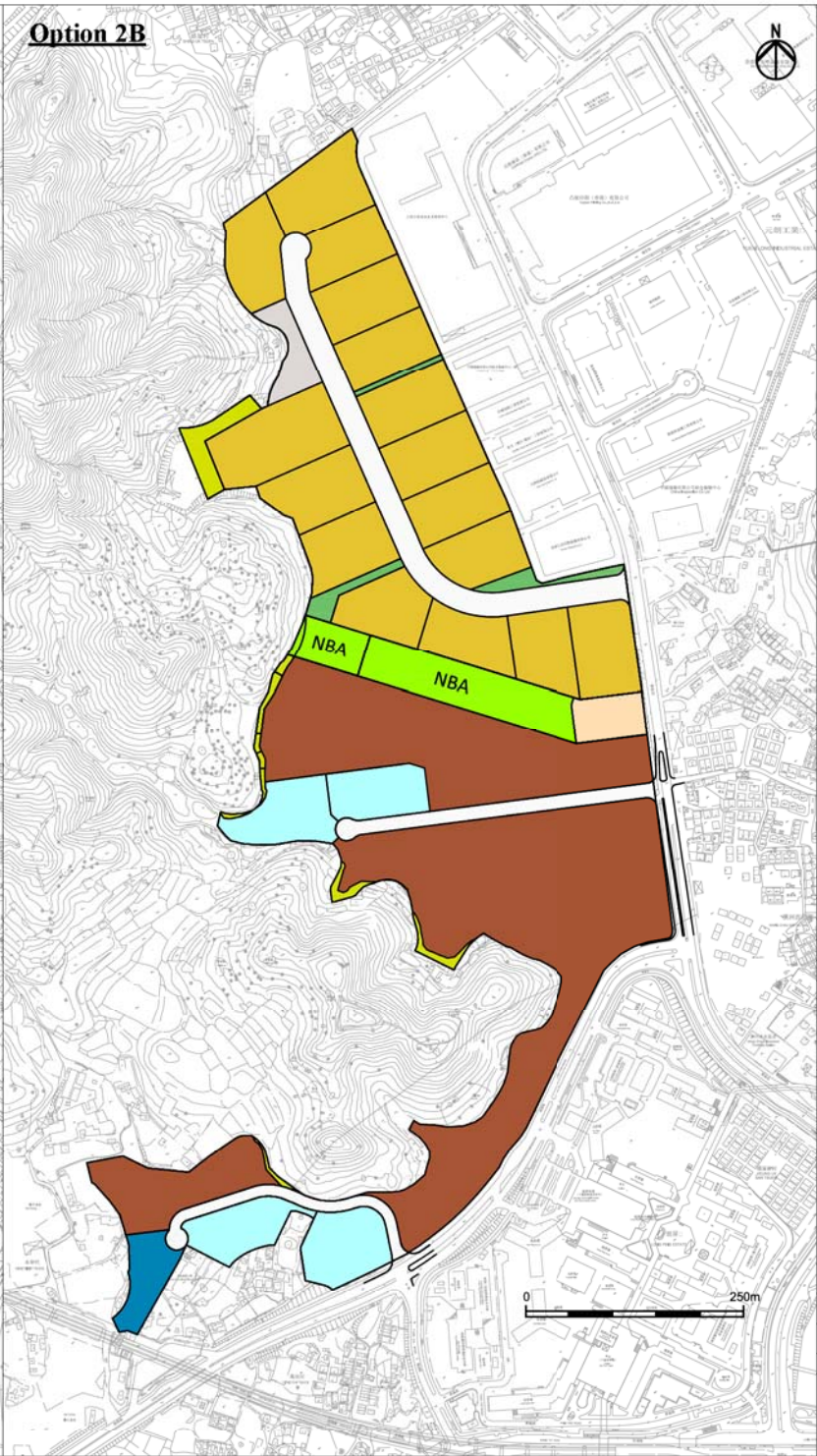
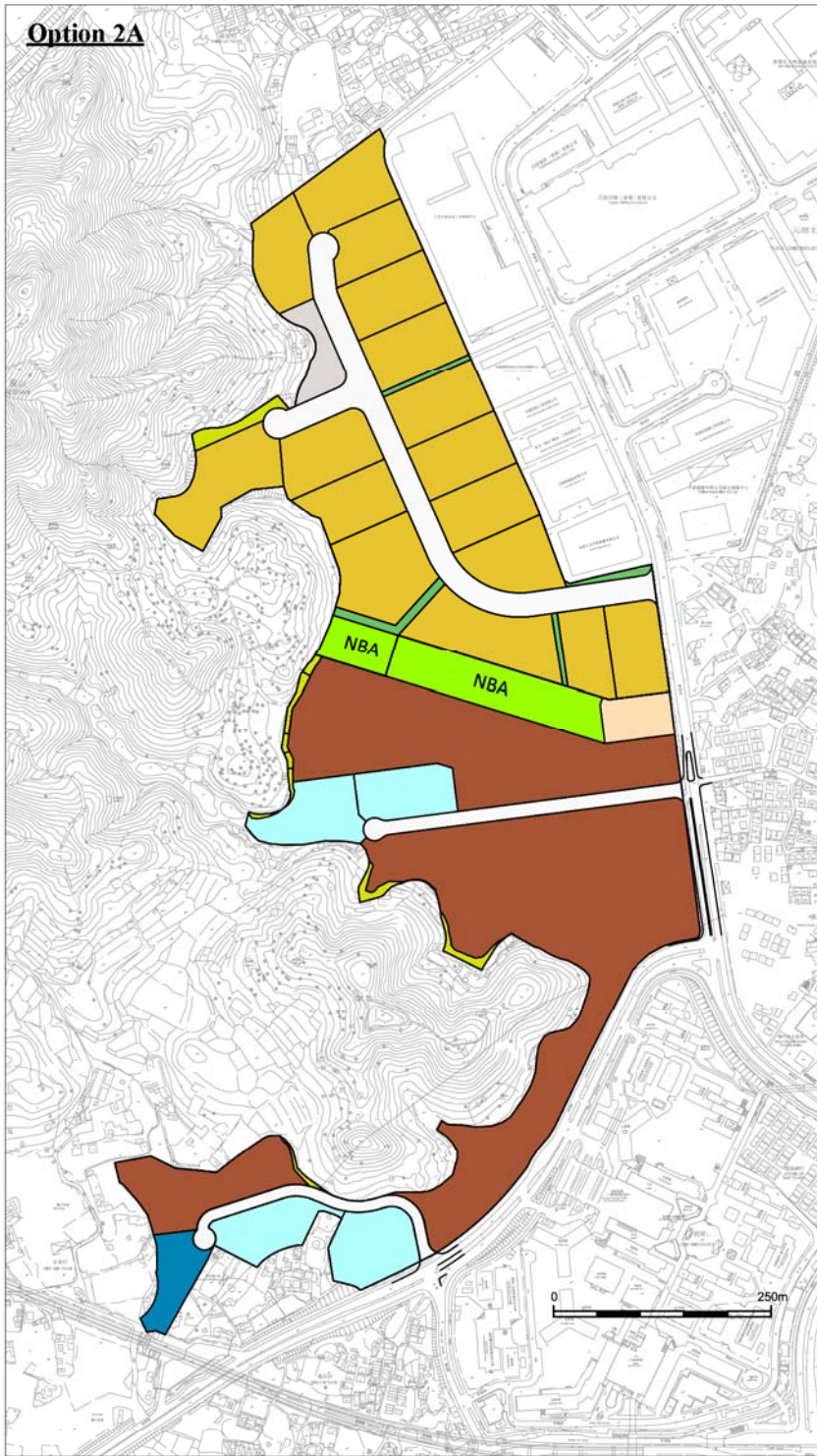
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**Option 2A**

**Option 2B**



**Legend**

- OU - Industrial Estate
- R1- Residential Zone 1
- Amenity Area in YLIEE
- Local Open Space
- Public Transportation Interchange
- School Sites
- GIC Site
- Parking Space
- Green Belt/Slope Area
- NBA** Non-Building Area

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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**  
 Land Use Plan Option 2A and 2B

Drawing no. Rev. D  
 Figure 2.4.1b

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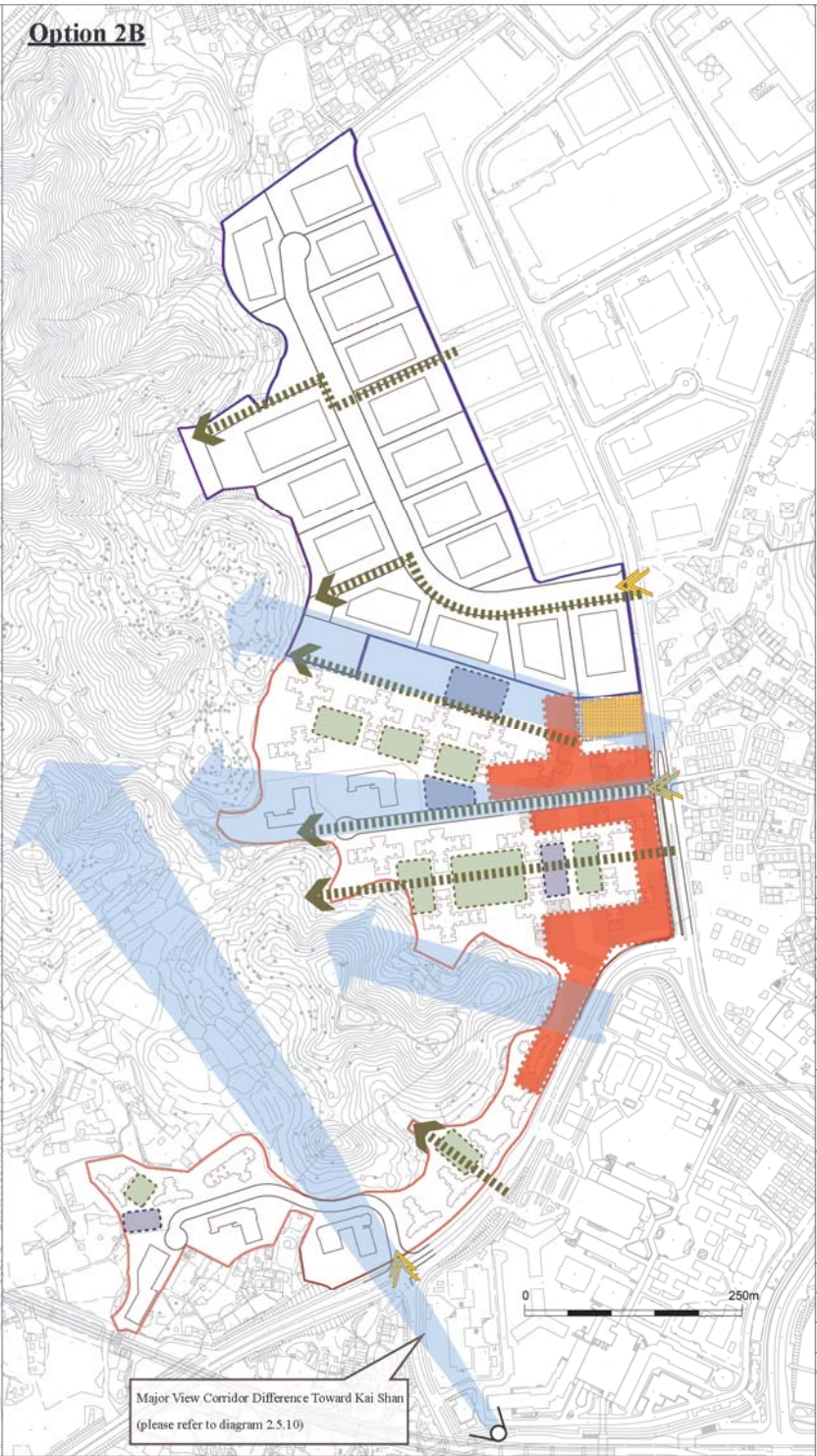
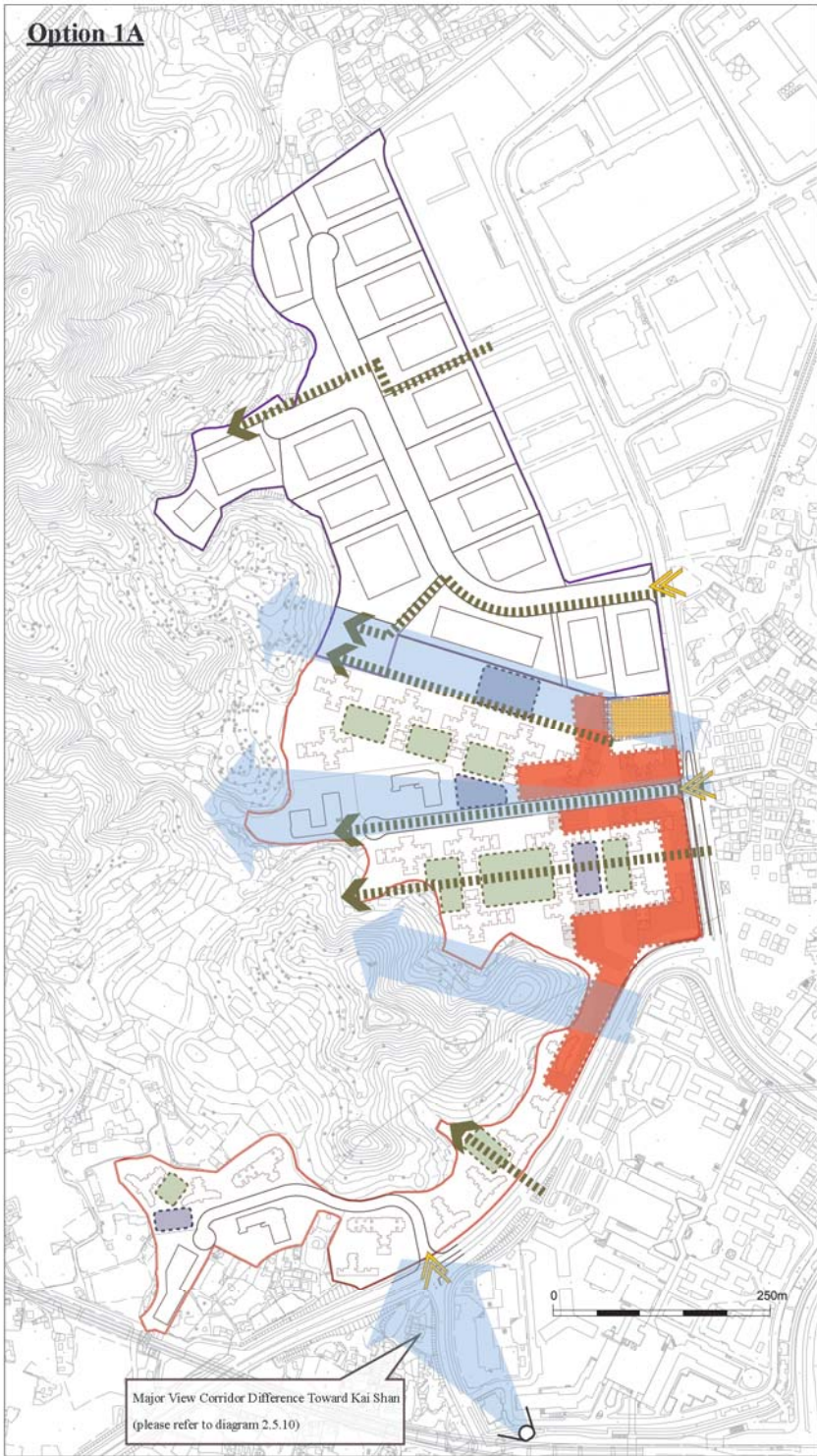
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**Option 1A**

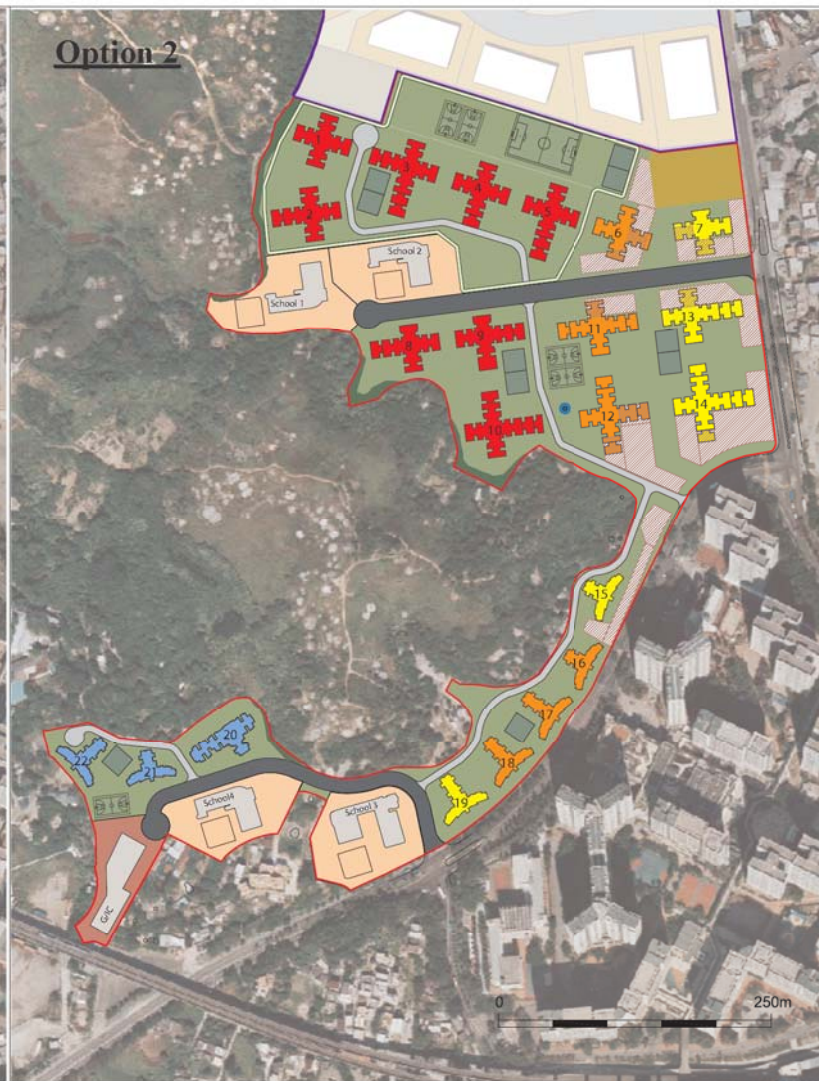
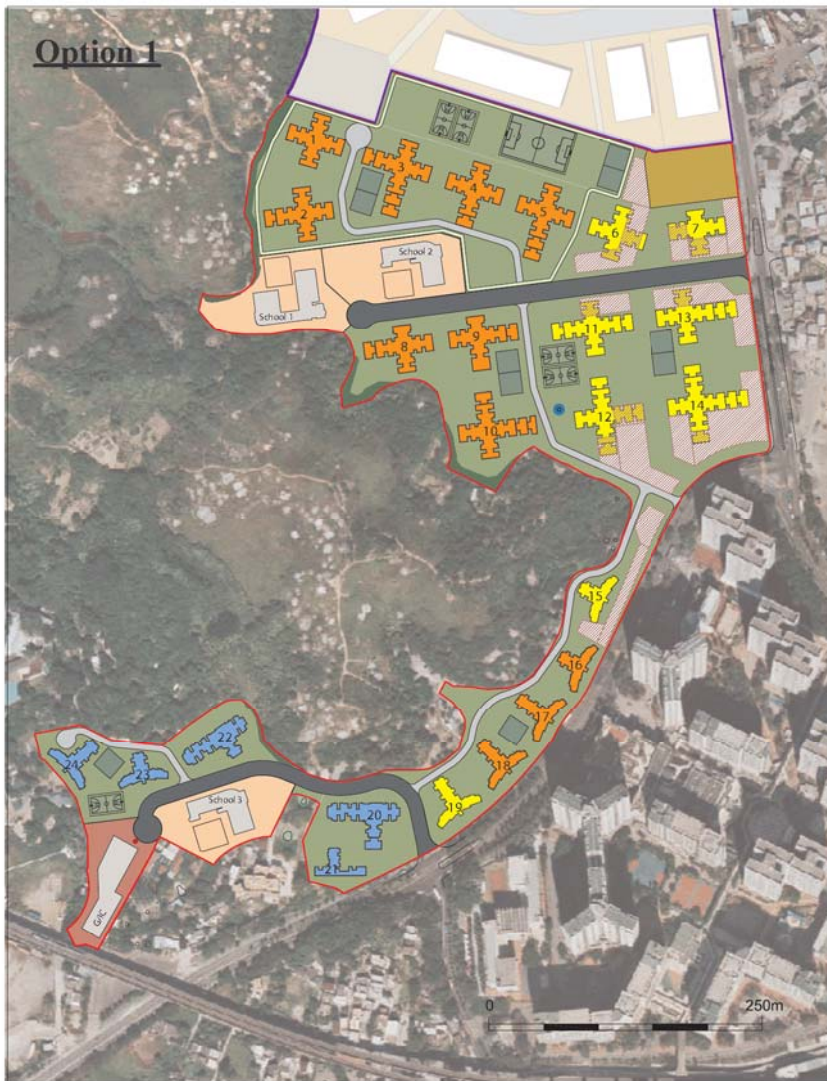
**Option 2B**



**Legend**

- YLIEE Site
- PH Site
- Activity Nodes
  - Public Transport Interchange (PTI)
  - Retail
  - Community Garden
  - Outdoor Sports Facility
- Activity Nodes
  - Vehicular Entry Points
  - Pedestrian Linkages toward Kai Shan
- Activity Nodes
  - View Corridor

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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			
Urban Design Framework - Options 1A and 2B			
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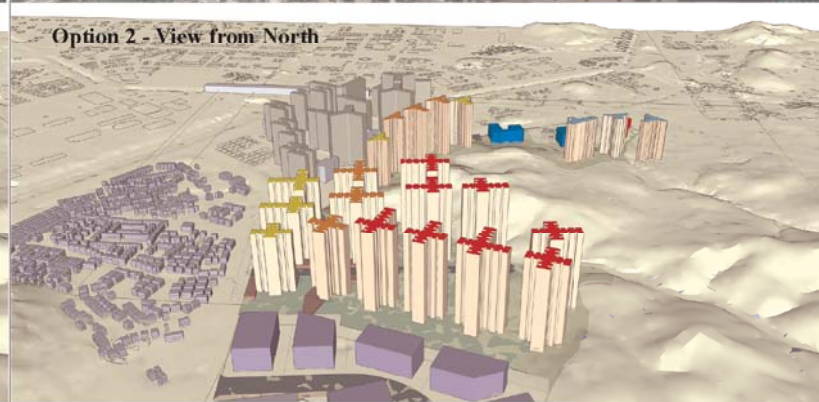
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— YLIEE Site

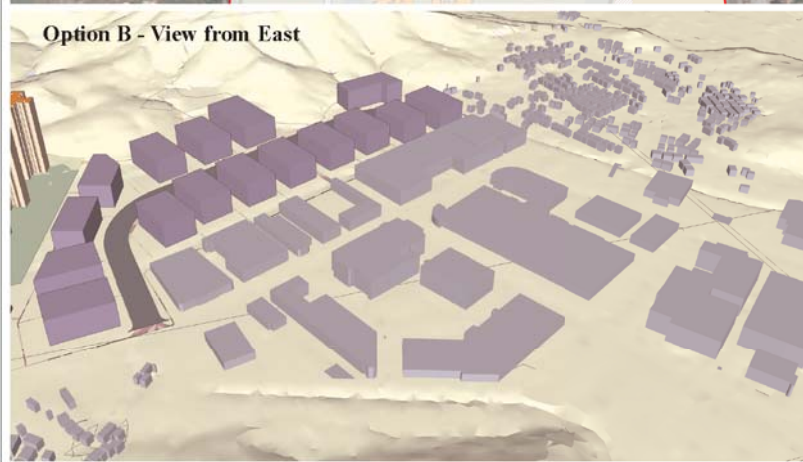
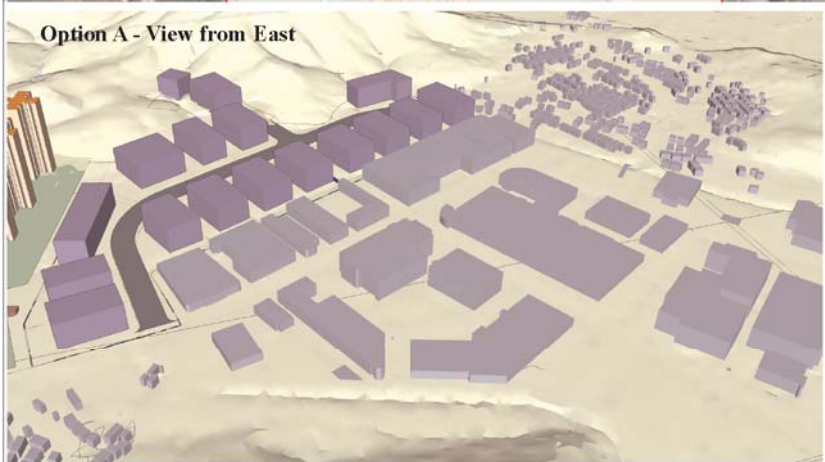
— PH Site

**PH Site**

- 41 Storeys
- 36 Storeys
- 31 Storeys
- 26 Storeys
- Commercial (1 Storey)
- School Site
- GIC
- Public Transport Interchange (PTI)
- Playground
- Jogging Track
- Road
- EVA
- Well
- Shrine



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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			
Master Layout Plan for PH Sites (Options 1 and 2)			
Drawing no. Figure 2.5.2			Rev. E
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**Legend**



- YLIEE Site
- PH Site

**YLIEE Site**

- Industrial Plots
- Parking Spaces
- Amenity Area/Pedestrian Corridor
- Local Open Spaces (Buffer Area between YLIEE & PH)
- Slope Area/Green Belt
- Road

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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  
 Master Layout Plan for YLIEE Sites (Options A and B)

Drawing no. Figure 2.5.3 Rev. E

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Option 1A

Option 1B



**Legend**

- YLIEE Site
- PH Site

**PH Site**

- 36 Storeys
- 31 Storeys
- 26 Storeys
- Commercial (1 Storey)
- School Site
- GIC
- Public Transport Interchange (PTI)
- Playground
- Jogging Track
- Road
- EVA
- Well
- Shrine

**YLIEE Site**

- Industrial Plots
- Parking Spaces
- Amenity Area/Pedestrian Corridor
- Local Open Spaces (Buffer Area between YLIEE & PH sites)
- Slope Area/Green Belt


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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  
 Master Layout Plan - Options 1A and 1B

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Option 2A

Option 2B



**Legend**

- YLIEE Site
- PH Site

**PH Site**

- 41 Storeys
- 36 Storeys
- 31 Storeys
- 26 Storeys
- Commercial (1 Storey)
- School Site
- GIC
- Public Transport Interchange
- Playground
- Jogging Track
- Road
- EVA
- Well
- Shrine

**YLIEE Site**

- Industrial Plots
- Parking Spaces
- Amenity Area/Pedestrian Corridor
- Local Open Spaces (Buffer Area between YLIEE & PH sites)
- Slope Area/Green Belt


A	First Issue		05/13
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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  
 Master Layout Plan - Options 2A and 2B

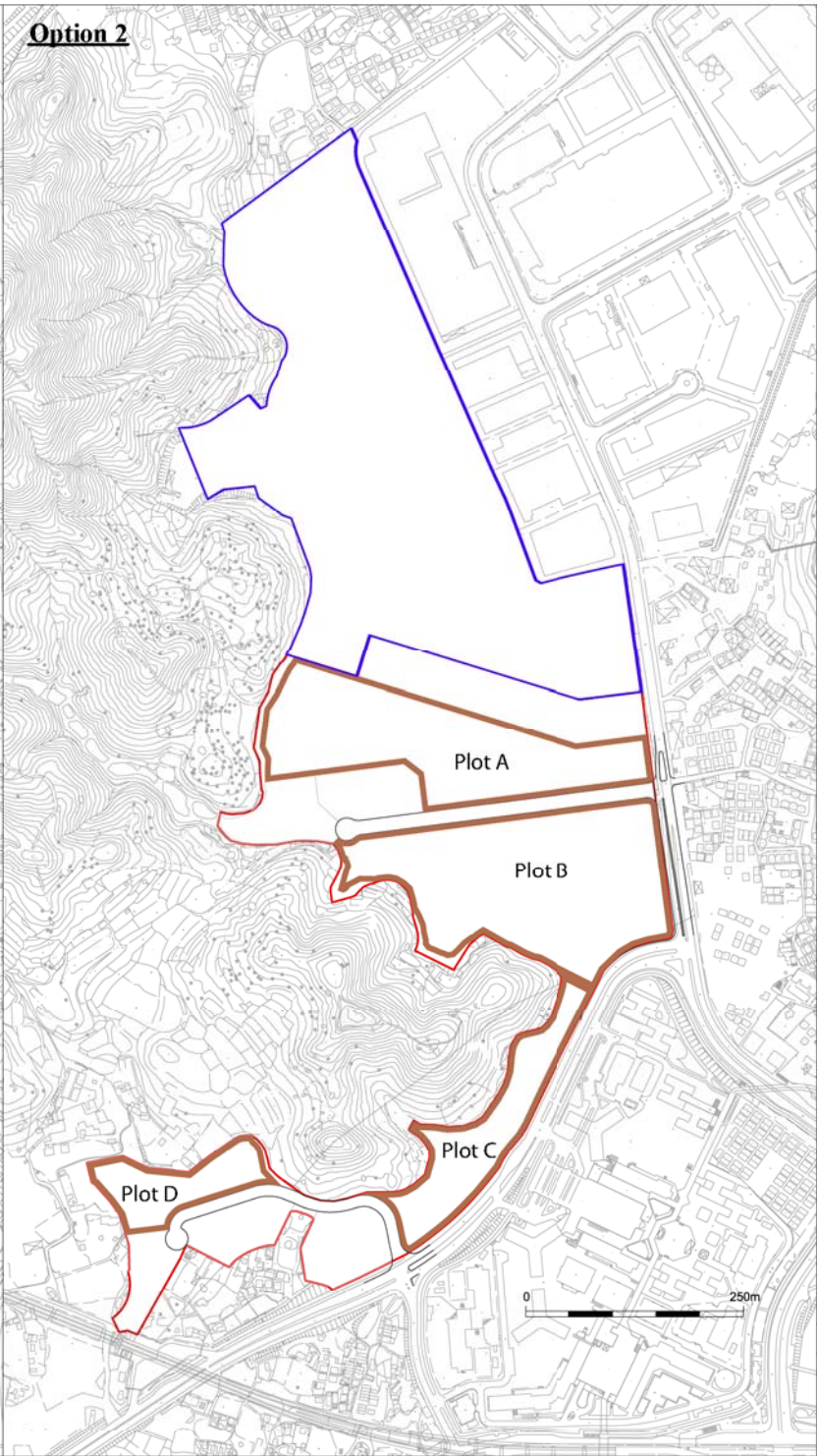
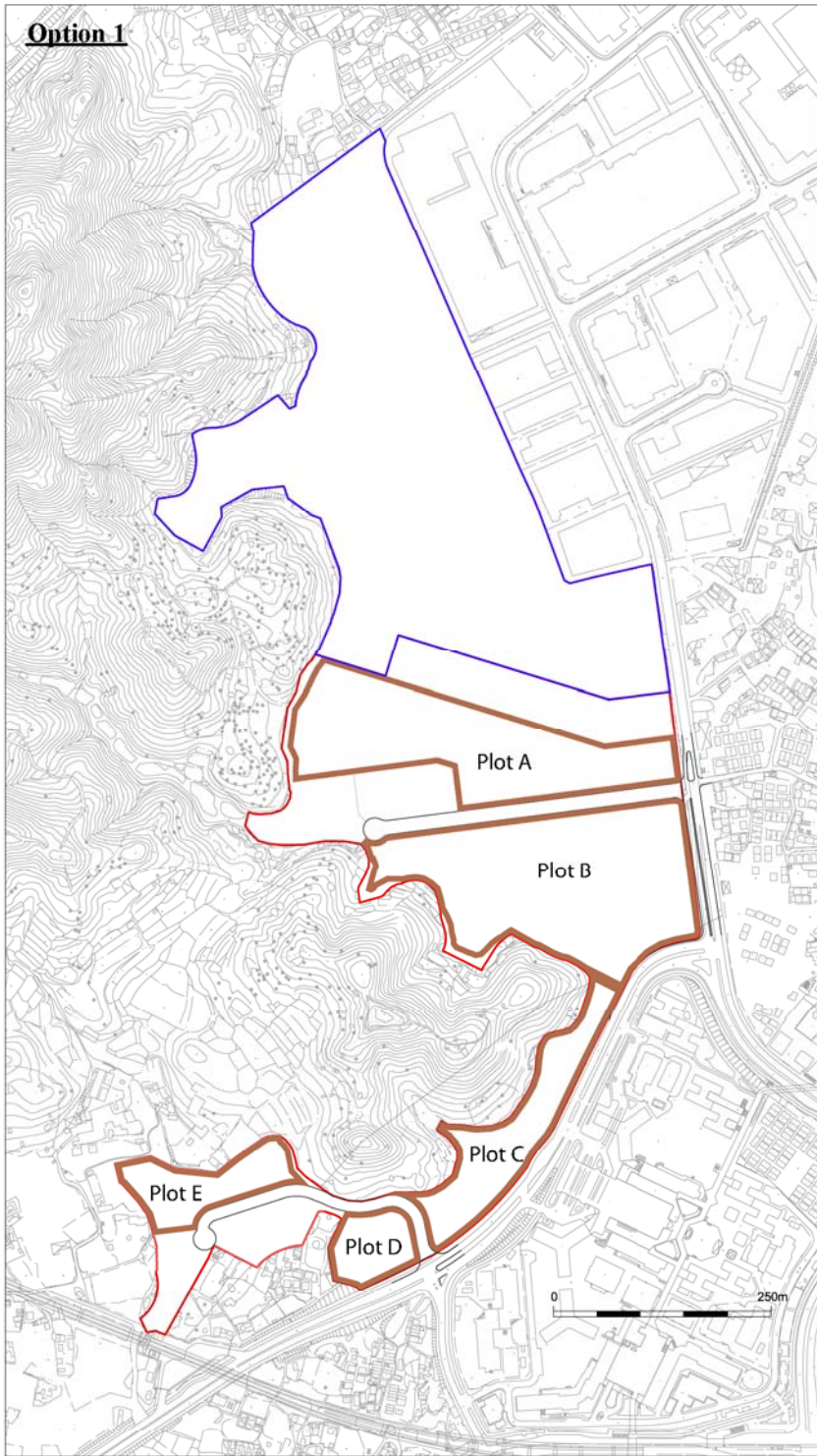
Drawing no.	Figure 2.5.5	Rev.	E
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Drawn	VARIOUS	Date	05/13	Checked	BC	Approved	ST
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Scale	AS SHOWN	Status	PRELIMINARY
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**Option 1**

**Option 2**



**Legend**

- YLIEE Site
- PH Site
- Residential Plots



A	First Issue		05/13
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  
 Plot Distribution for PH Sites under Options 1 and 2

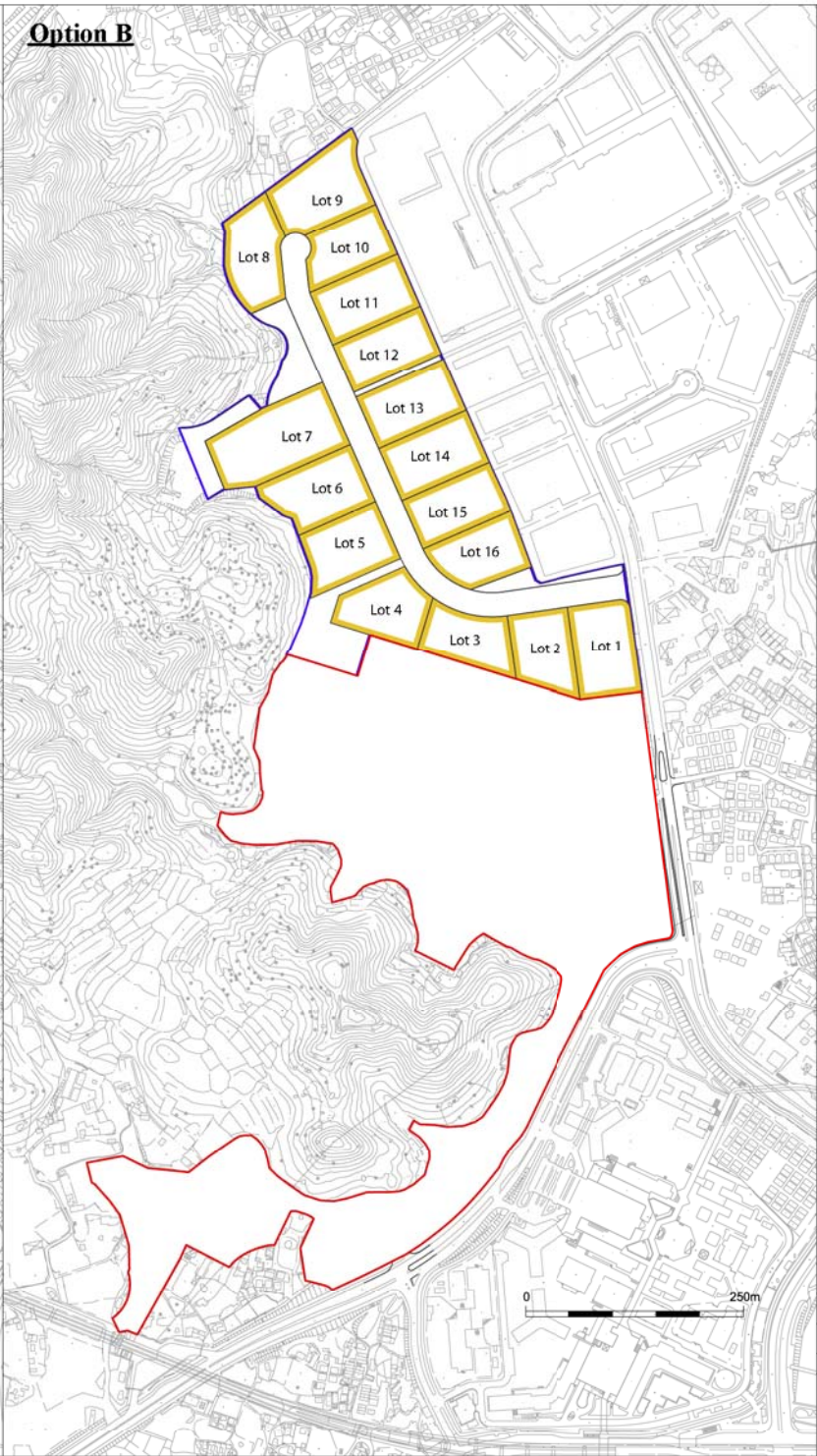
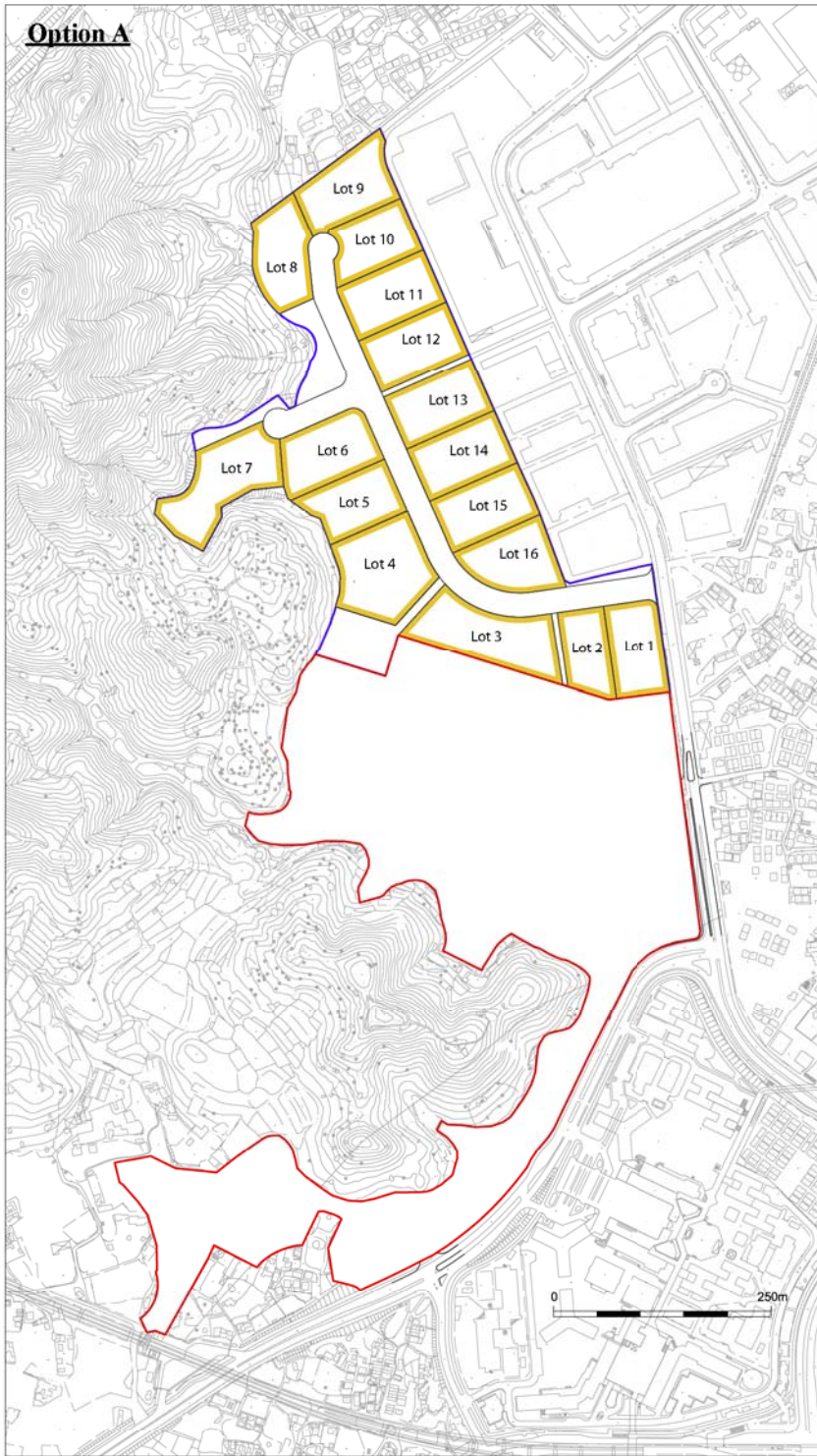
Drawing no.	Figure 2.5.6			Rev.	D
Drawn	VARIOUS	Date	05/13	Checked	BC
Scale	AS SHOWN		Status	PRELIMINARY	

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**Option A**

**Option B**



**Legend**

-  YLIEE Site
-  PH Site
-  YLIEE Lots



A	First Issue		05/13
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  
 Lot Distribution for YLIEE site under Options A and B

Drawing no. Figure 2.5.7 Rev. D

Drawn	VARIOUS	Date	05/13	Checked	BC	Approved	ST
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Scale	AS SHOWN	Status	PRELIMINARY
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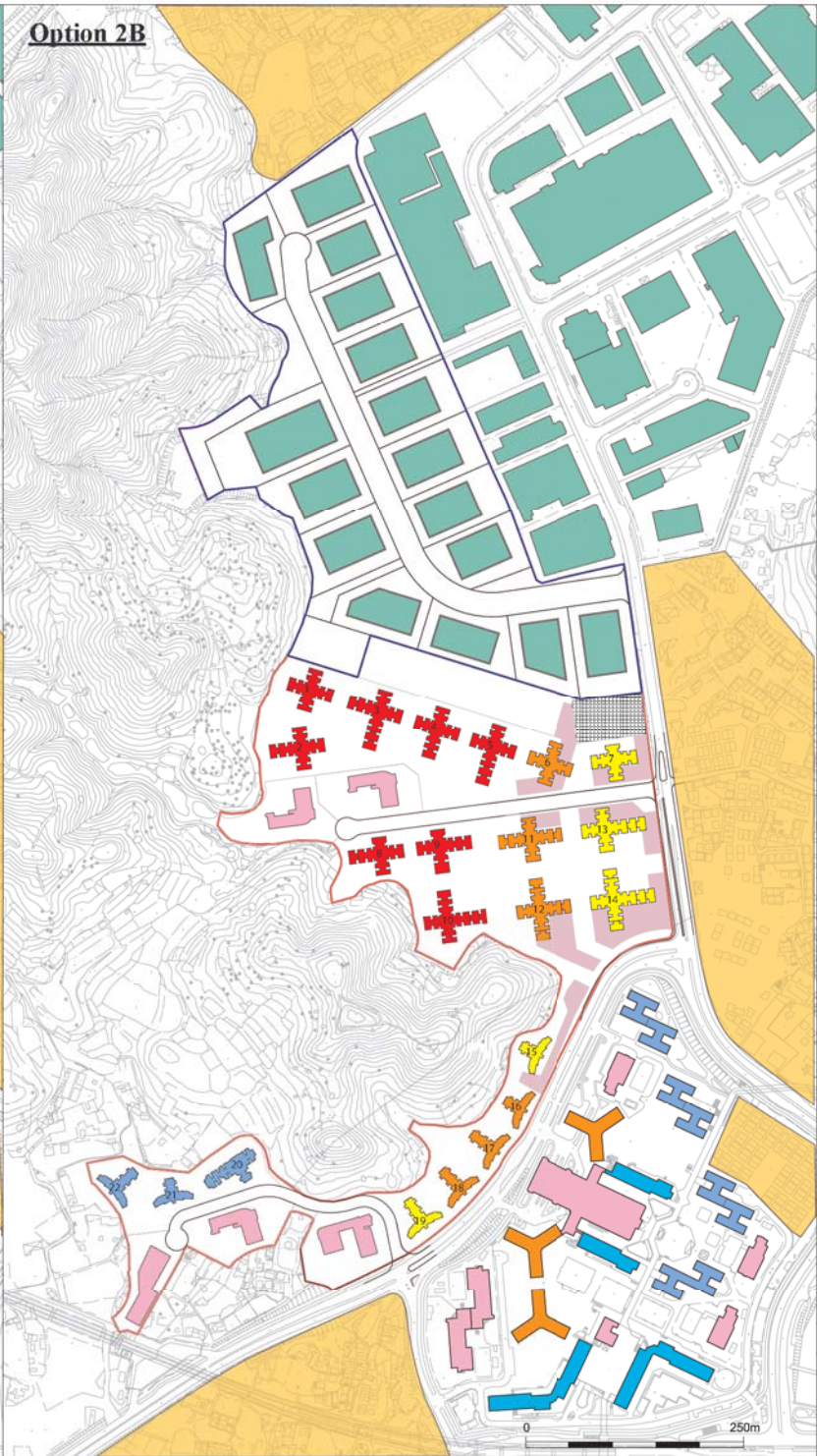
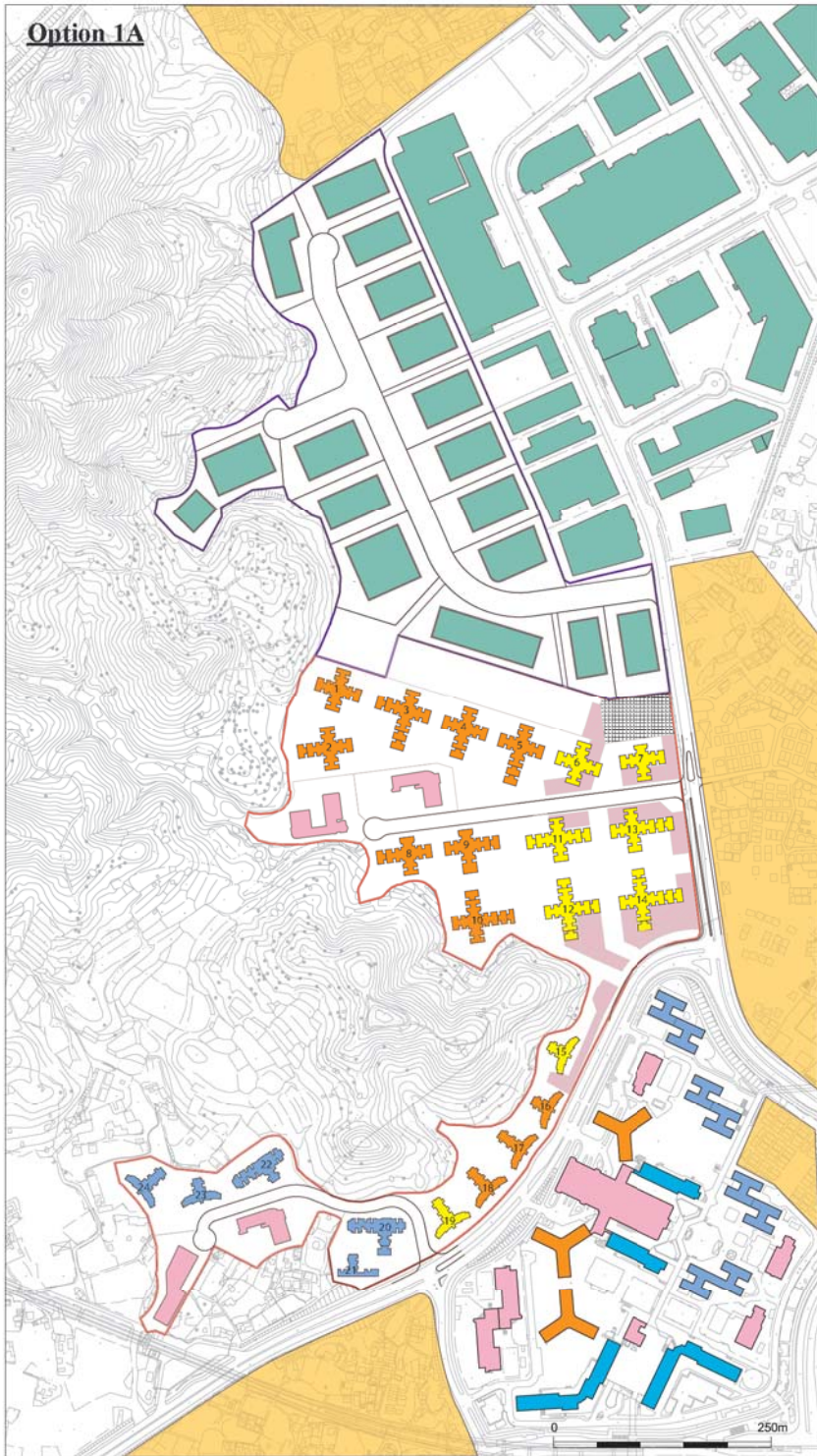
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**Option 1A**

**Option 2B**



- Legend**
- YLIEE Site
  - PH Site
- 
- Villages**
- 3 Storeys or Below
- YLIE + YLIEE**
- 8 Storeys or Below
- Long Ping Estate + Wang Chau PH Site**
- 8 Storeys or Below - Community and Retail Facilities
  - 19-24 Storeys
  - 25-29 Storeys
  - 30-34 Storeys
  - 35-39 Storeys
  - 41 Storeys

A	First Issue		05/13
Rev	Description	By	Date
Consultant			

**ARUP**

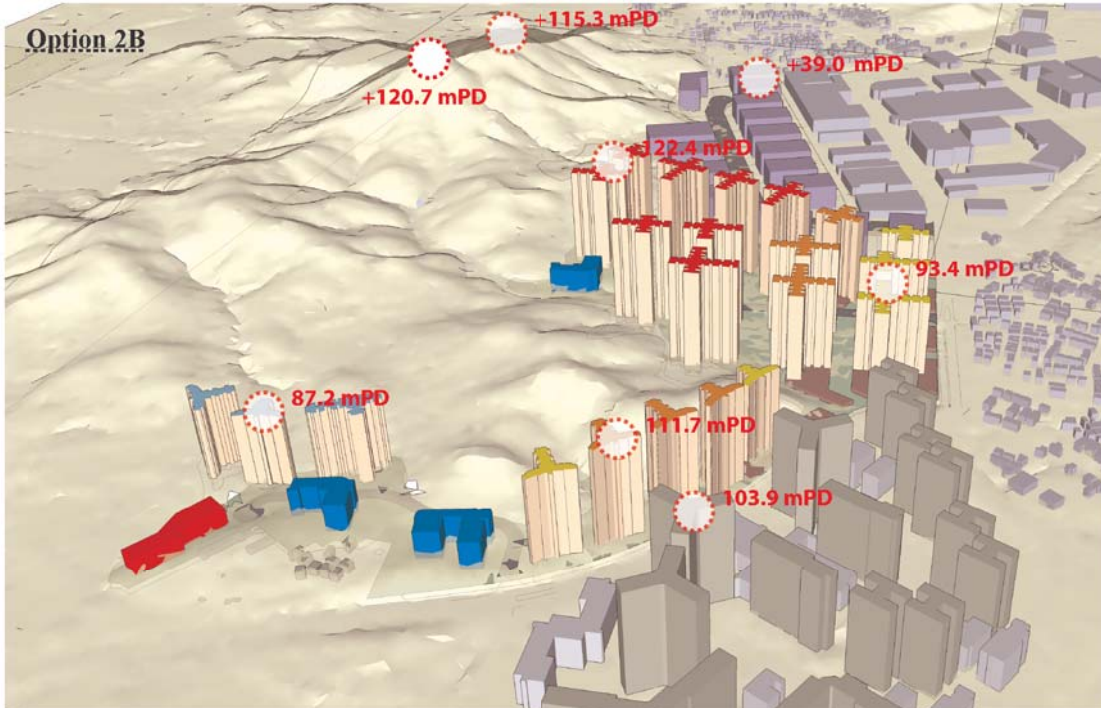
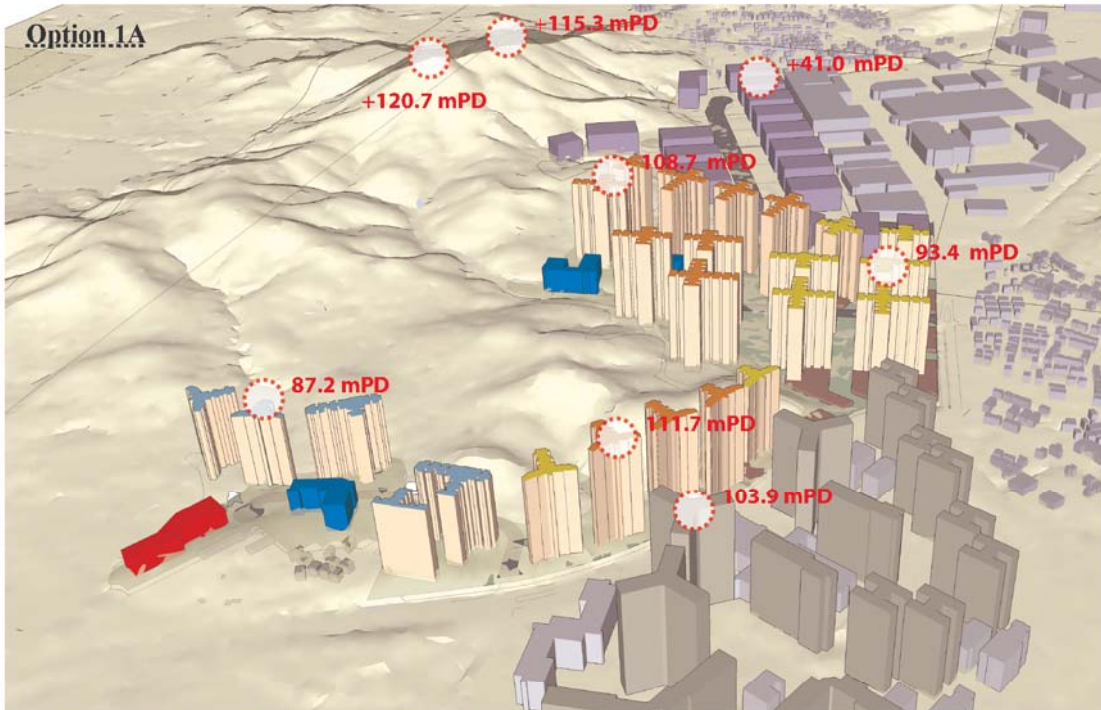
Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau








Drawing title  
 Building Height Profile Comparison in Number of Storeys

Drawing no.	Figure 2.5.8	Rev.	E
Drawn	VARIOUS	Date	05/13
Checked	BC	Approved	ST
Scale	AS SHOWN	Status	PRELIMINARY

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- Legend**
-  YLIEE Site
  -  N
  -  PH Site
  -  26 Storeys
  -  31 Storeys
  -  36 Storeys
  -  41 Storeys


A	First Issue		05/13
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  
Building Height Profile Comparison in mPD

Drawing no.	Figure 2.5.9	Rev.	E
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Drawn	VARIOUS	Date	05/13	Checked	BC	Approved	ST
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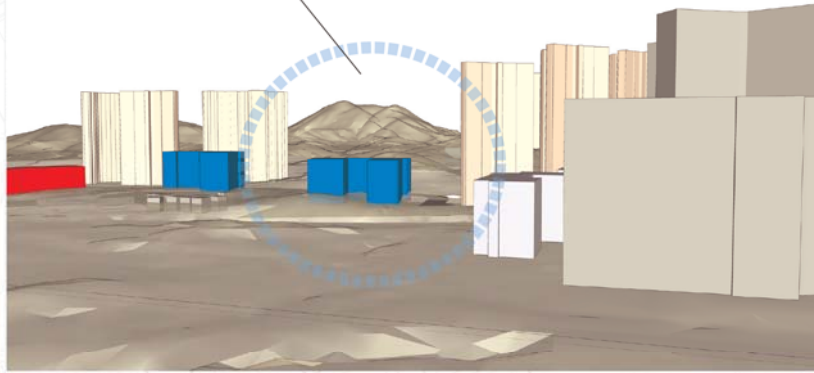
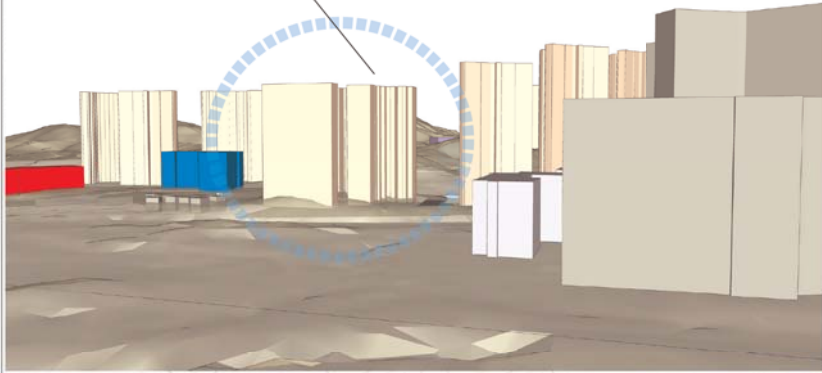


**Option 1**

**Option 2**

Kai Shan

Kai Shan



**Legend**



— YLIEE Site

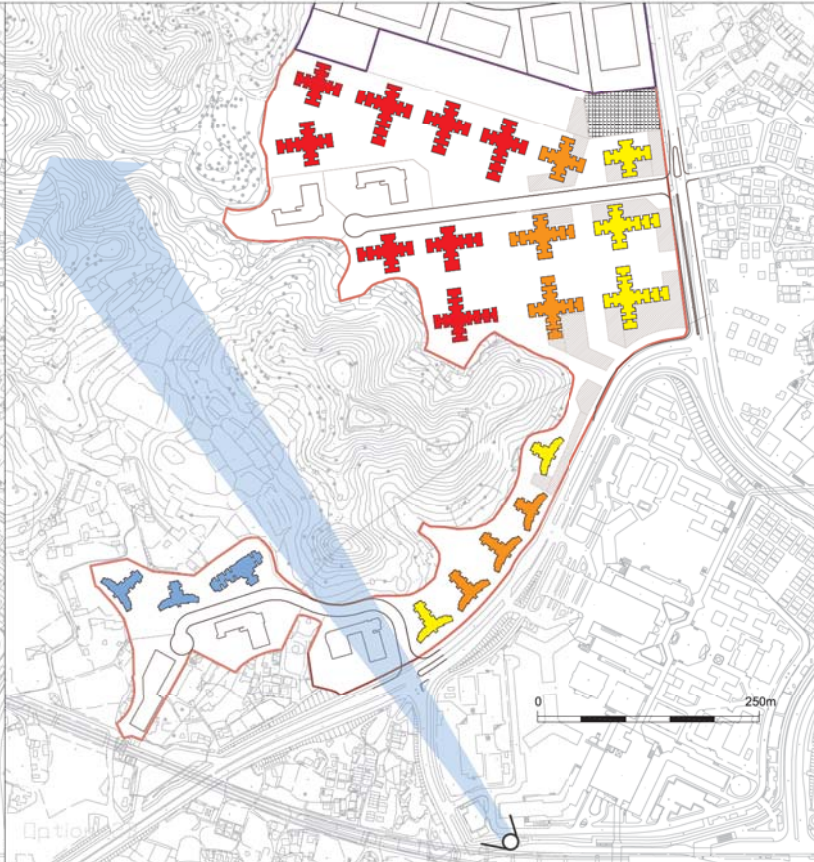
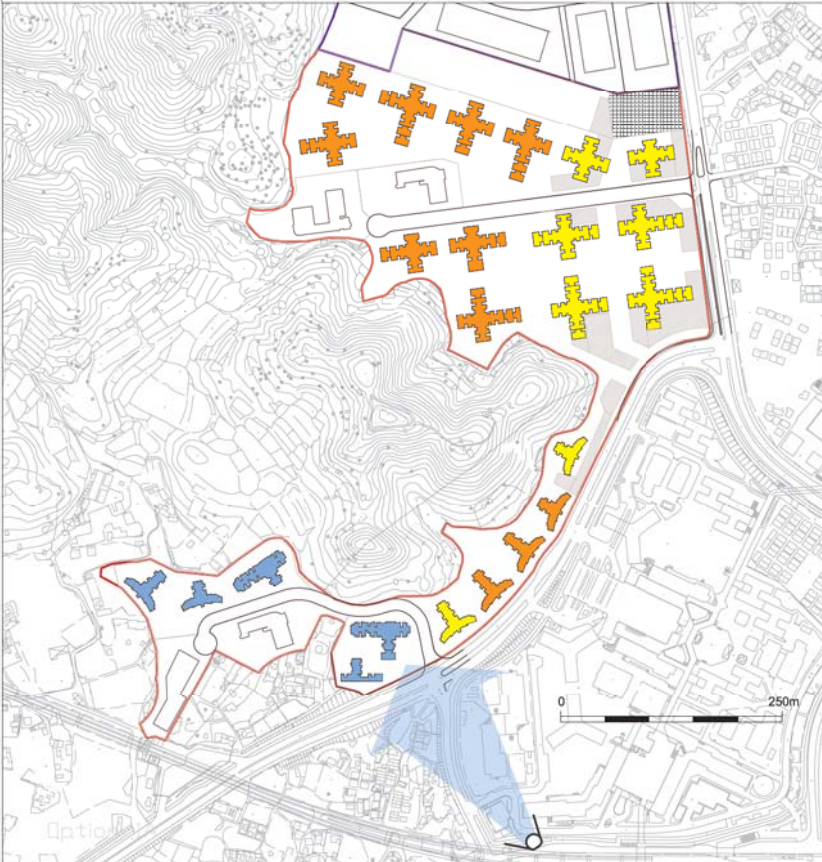
— PH Site

■ 26 Storeys

■ 31 Storeys

■ 36 Storeys

■ 41 Storeys



A	First Issue		05/13
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  
 Building Height Profile - Major View Corridor Difference  
 between PH Options 1 and 2.

Drawing no. Figure 2.5.10 Rev. E

Drawn	VARIOUS	Date	05/13	Checked	BC	Approved	ST
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Scale	AS SHOWN	Status	PRELIMINARY
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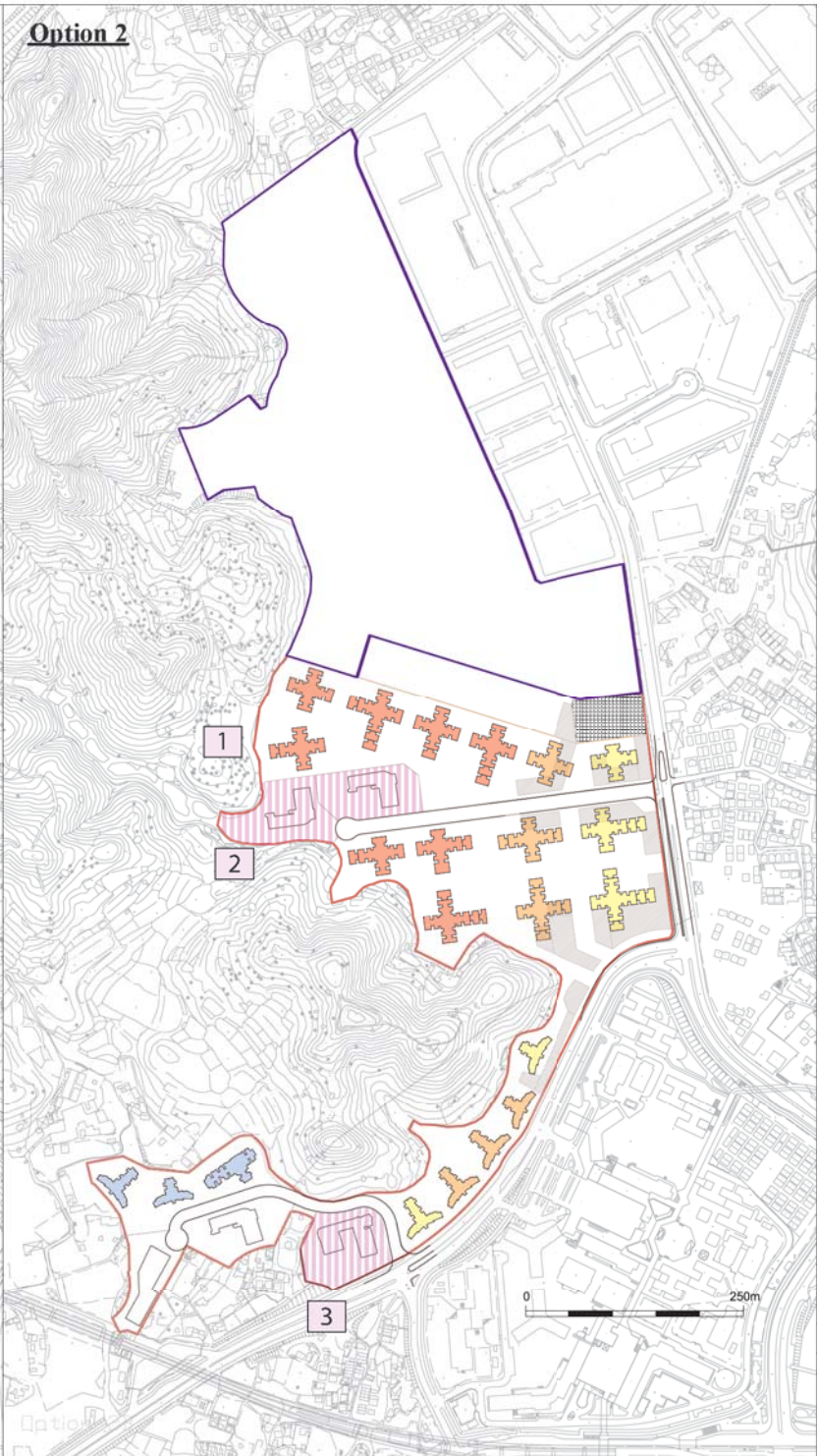
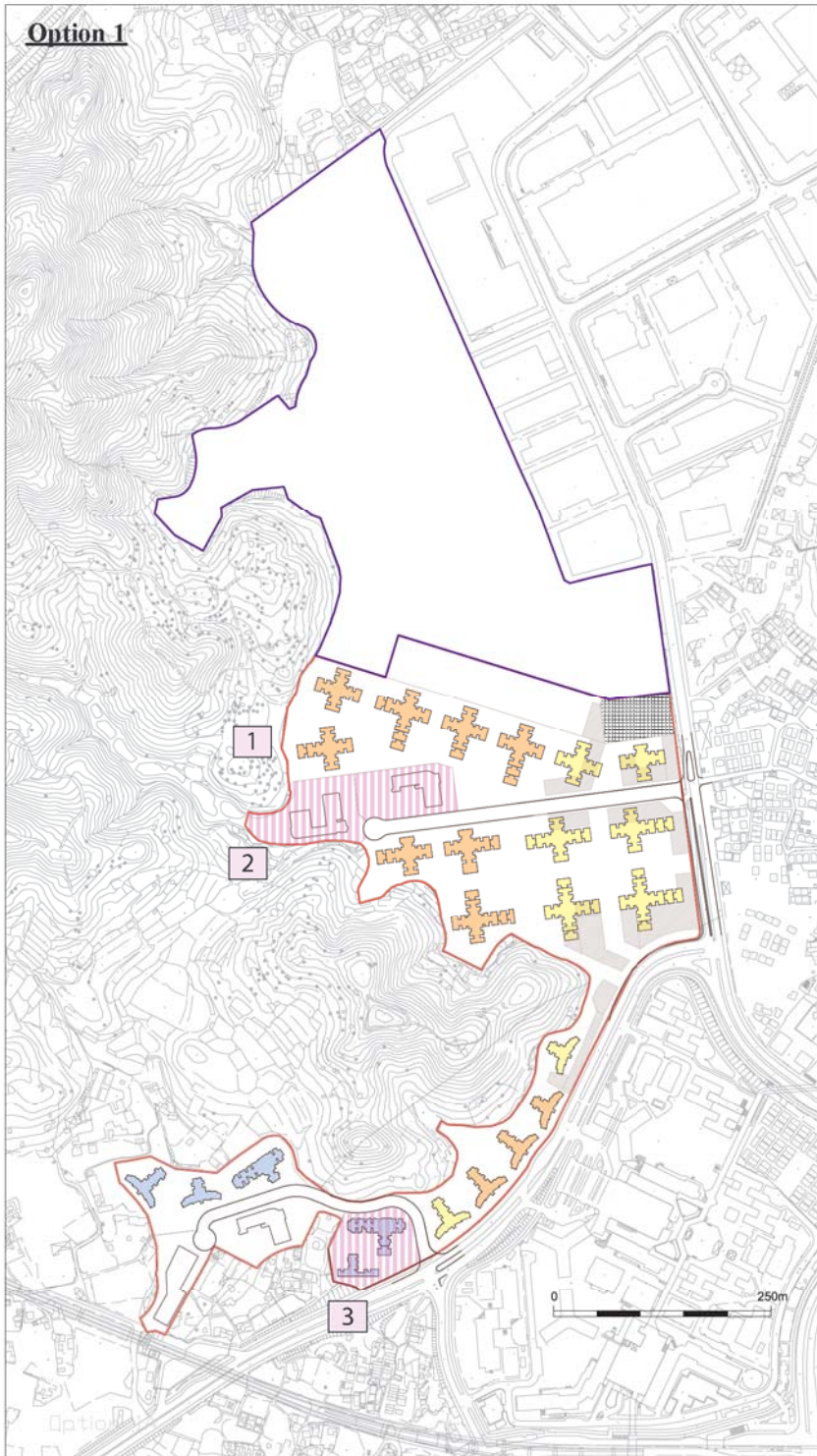
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**Option 1**

**Option 2**



**Legend**



— YLIEE Site

— PH Site

**1** Maximum Residential Building Heights

26 Storeys

31 Storeys

36 Storeys

41 Storeys

**2** Positioning of School Sites

**3** Provision of Additional School Site

Rev	Description	By	Date
A	First Issue		05/13

**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  
 Key Differences between PH site - Options 1 and 2

Drawing no. Figure 2.5.11 Rev. E

Drawn VARIOUS Date 05/13 Checked BC Approved ST

Scale AS SHOWN Status PRELIMINARY

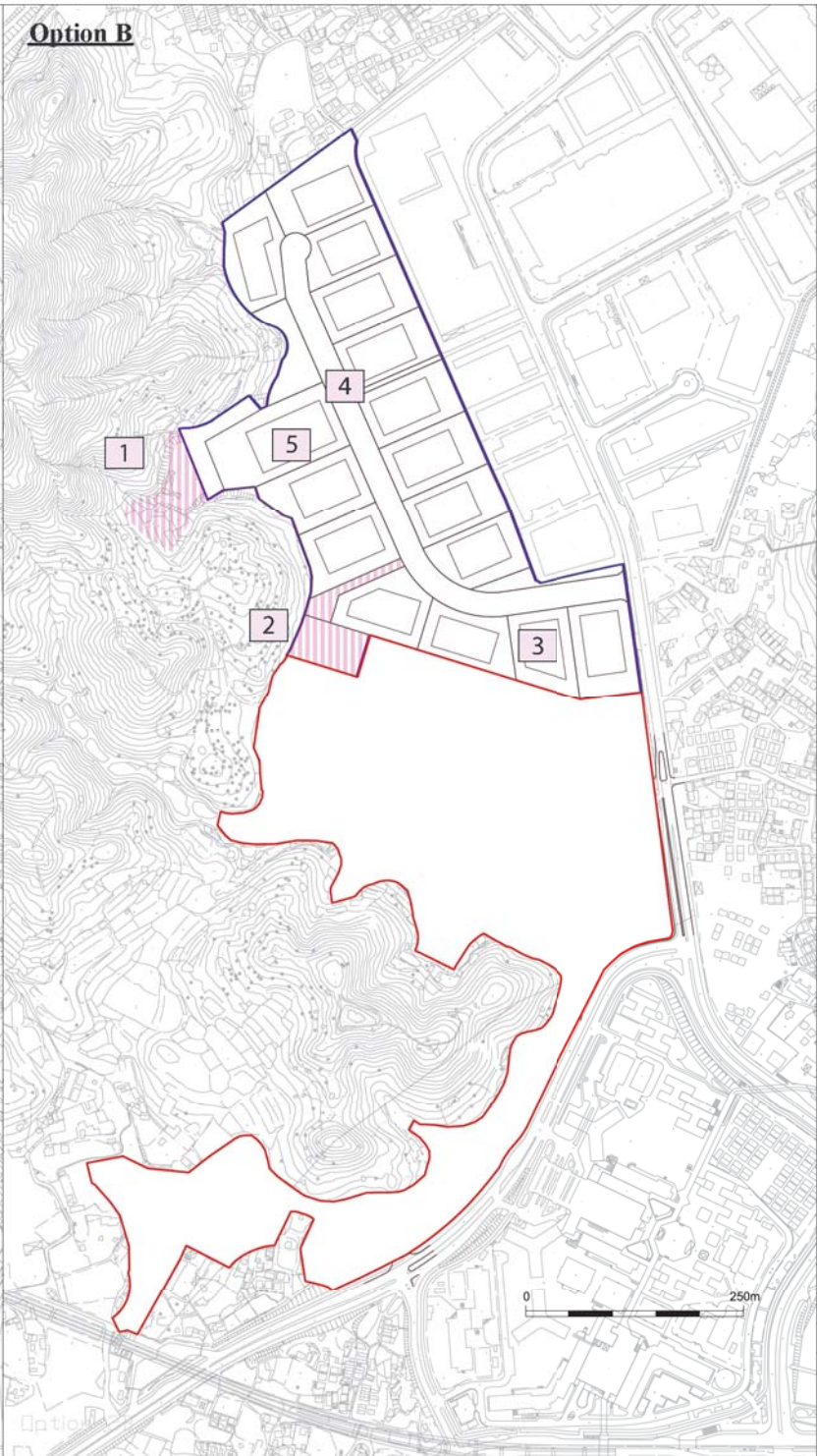
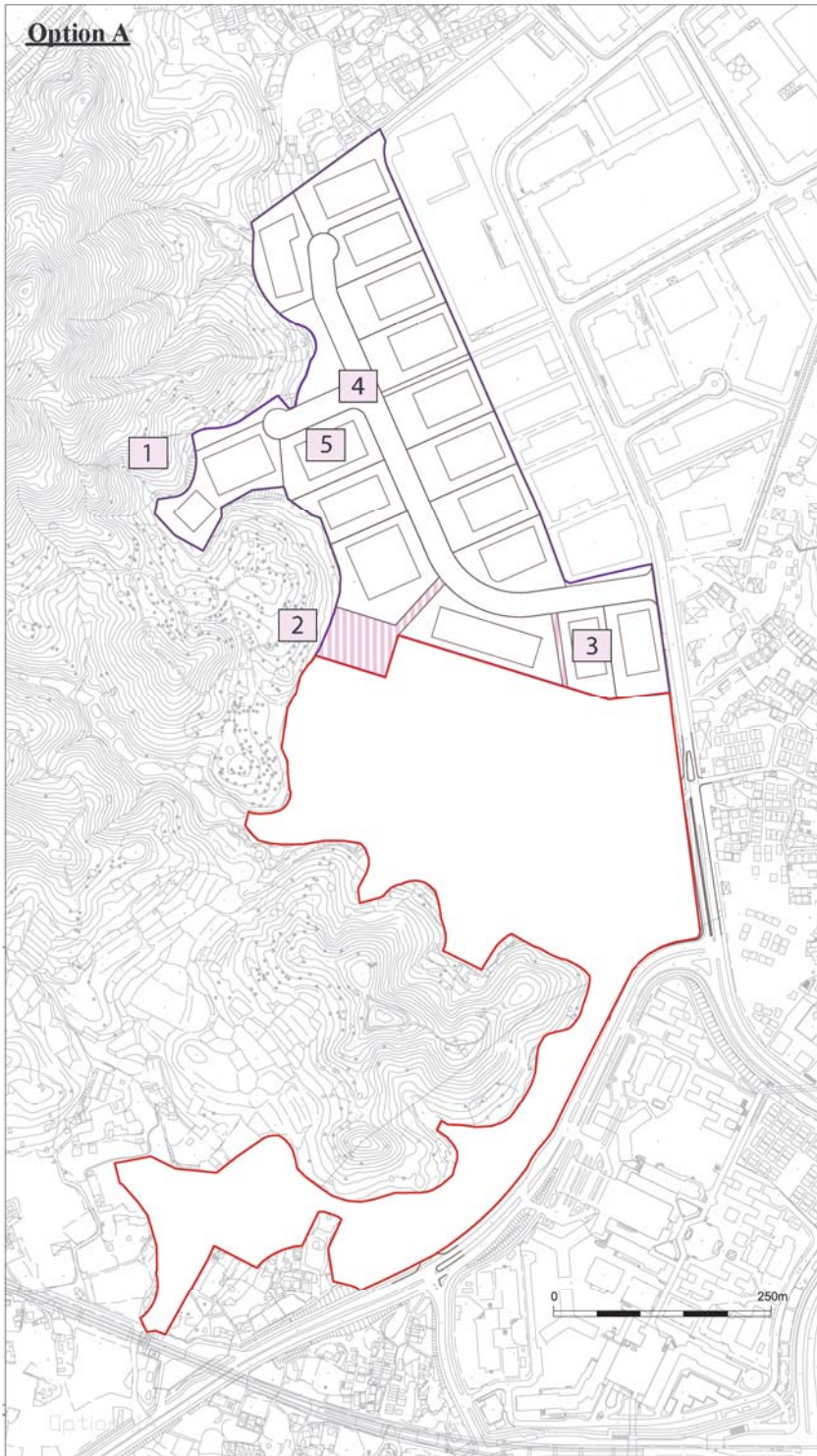
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**Option A**

**Option B**



**Legend**



- 1 Change in YLIEE Boundary
- 2 Access into YLIEE Amenity Area
- 3 Pedestrian Connection between YLIEE and PH Sites
- 4 Road Inside YLIEE
- 5 Size of YLIEE Plots

Rev	Description	By	Date
A	First Issue		05/13

**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  
 Key Differences between YLIEE site Options A and B

Drawing no. Figure 2.5.12 Rev. D

Drawn VARIOUS Date 05/13 Checked BC Approved ST

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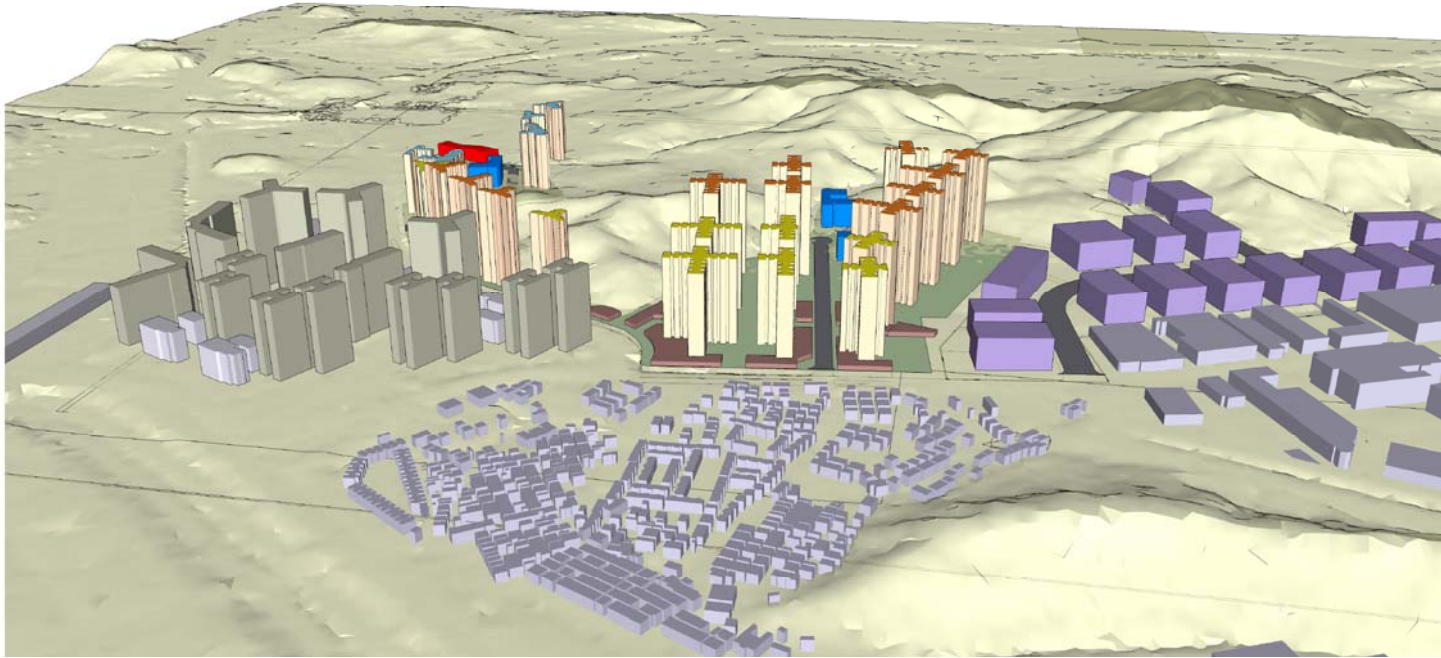
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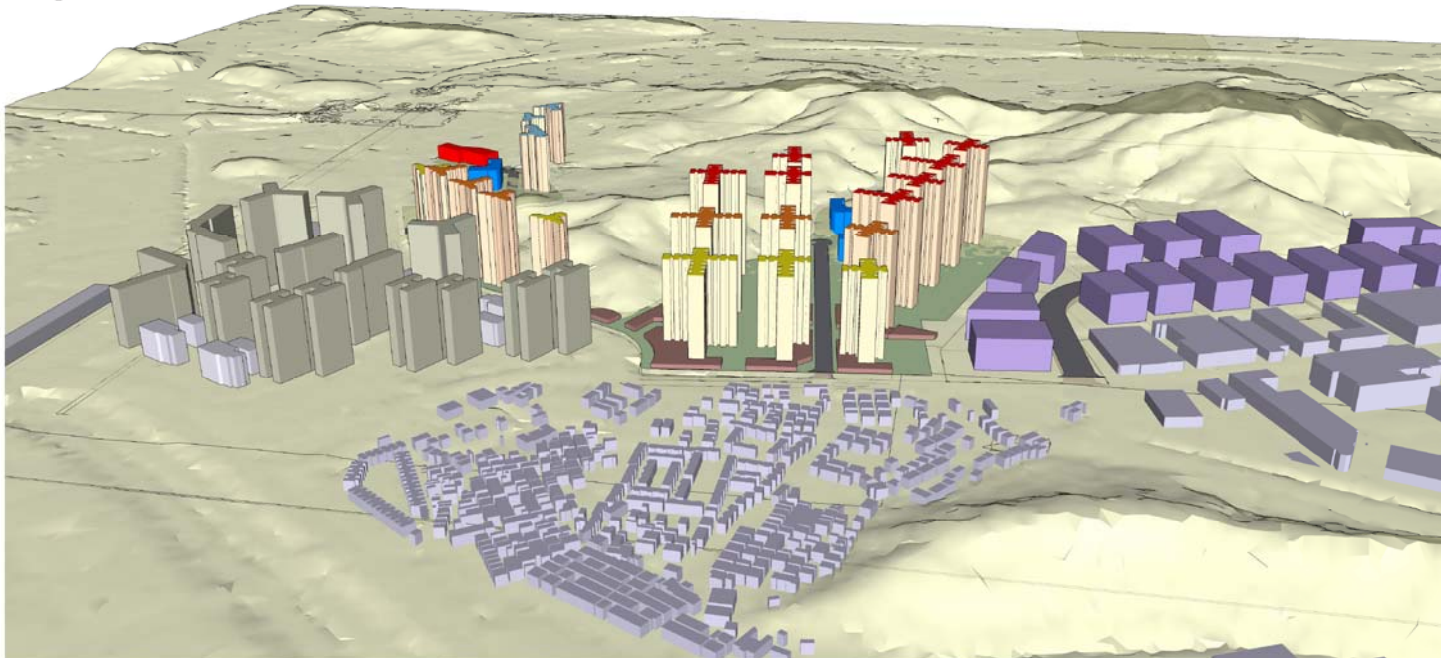
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**Option 1A**



**Option 2B**



Legend




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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  
View from East

Drawing no.	Figure 2.5.13	Rev.	D
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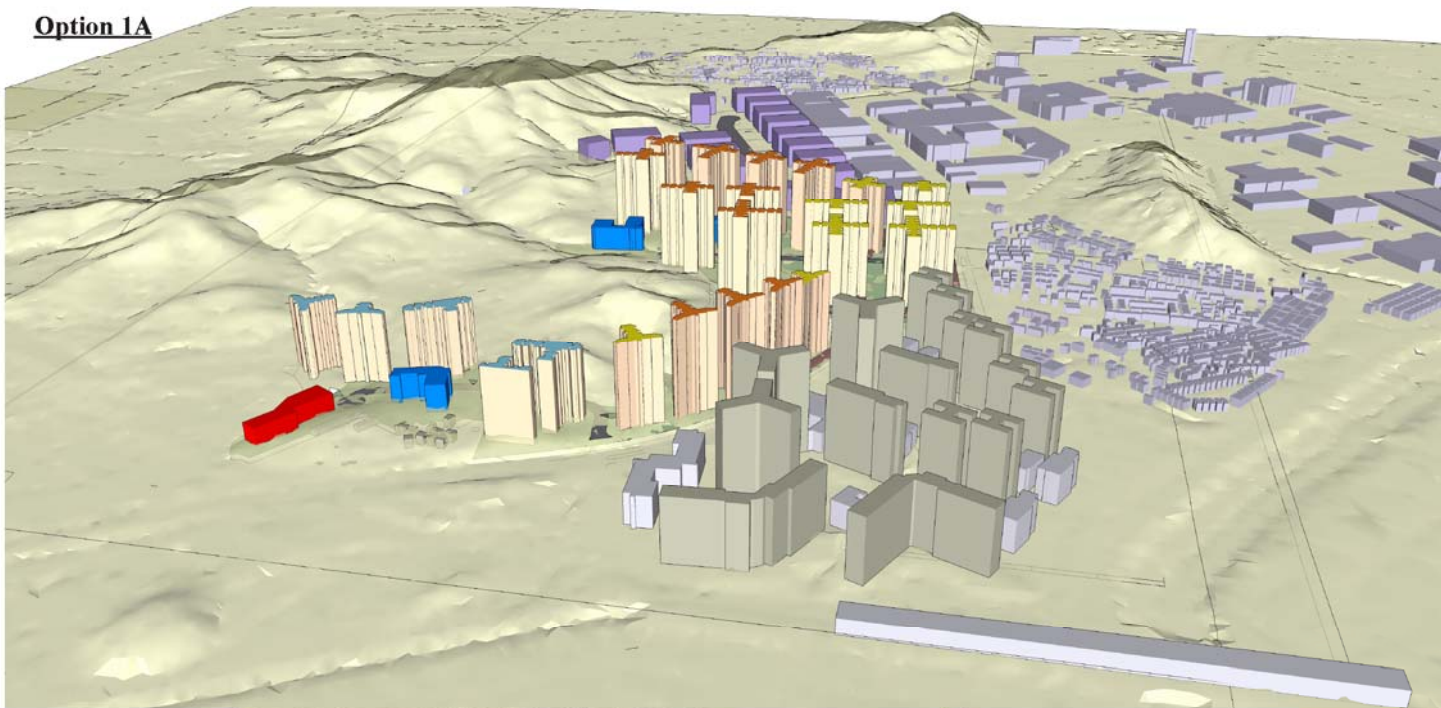
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Scale  
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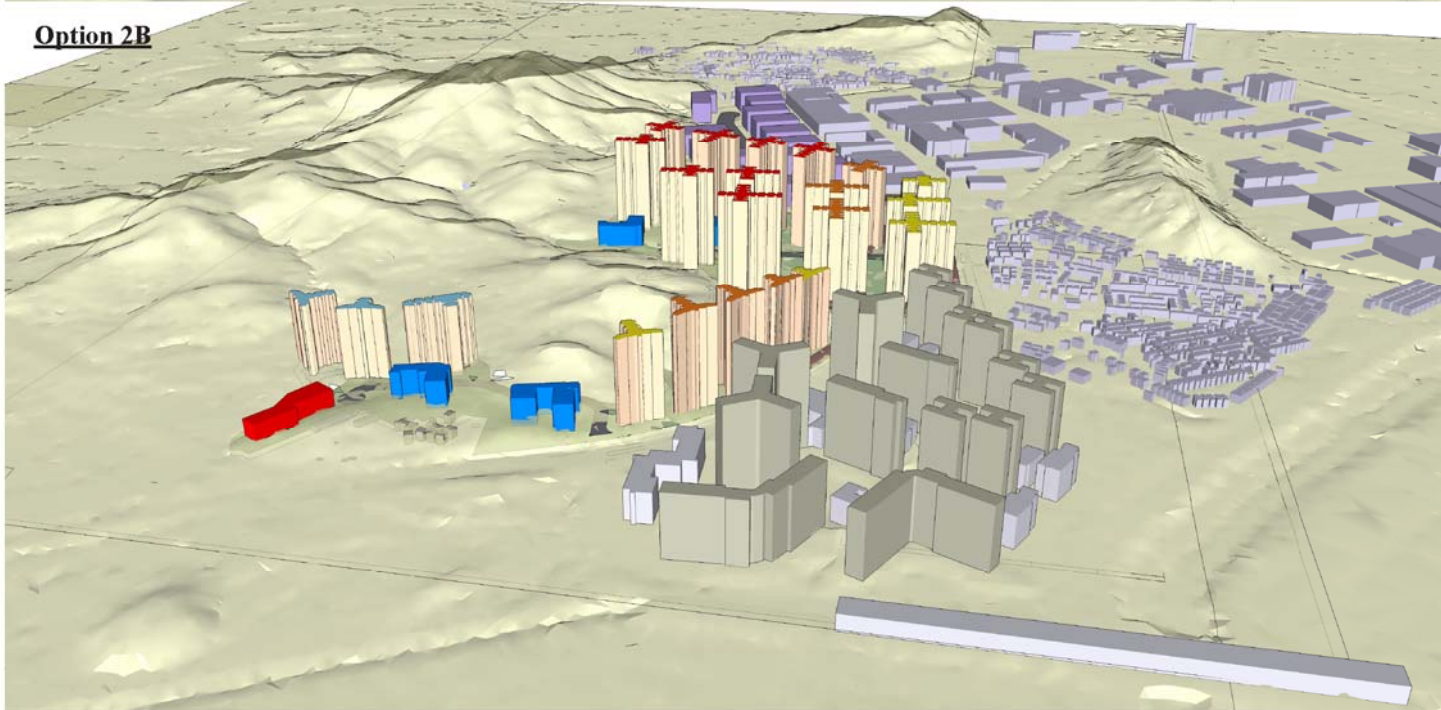
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**Option 1A**



**Option 2B**



Legend




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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  
View from Southeast

Drawing no.	Figure 2.5.14	Rev.	D
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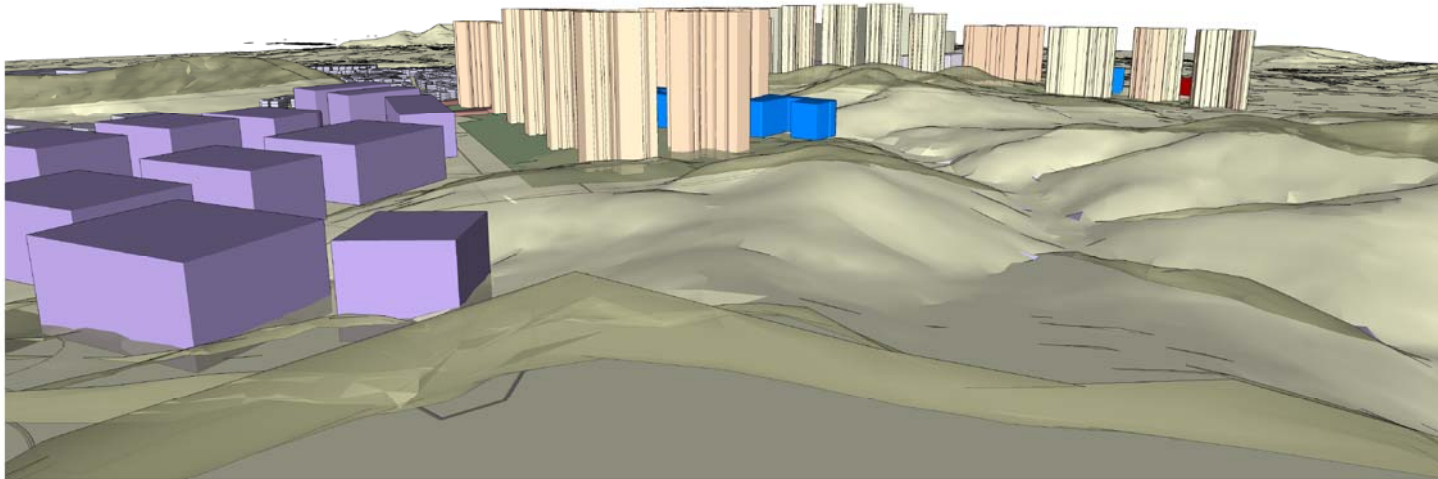
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Scale	PRELIMINARY		
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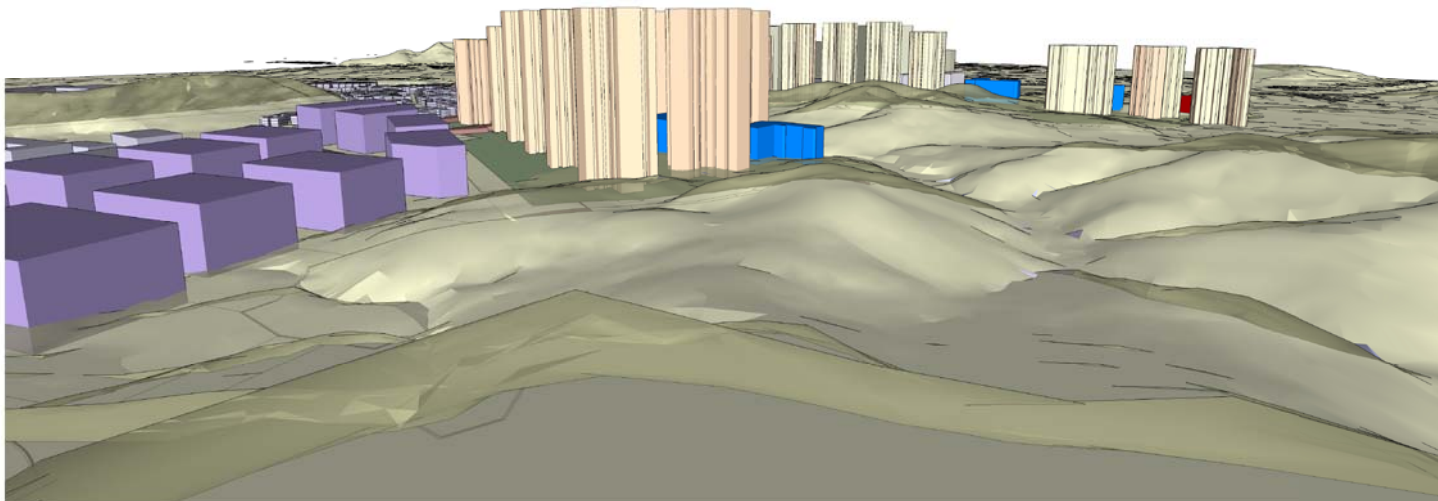
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**Option 1A**



**Option 2B**



Legend




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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  
View from Kai Shan

Drawing no. Figure 2.5.15 Rev. D

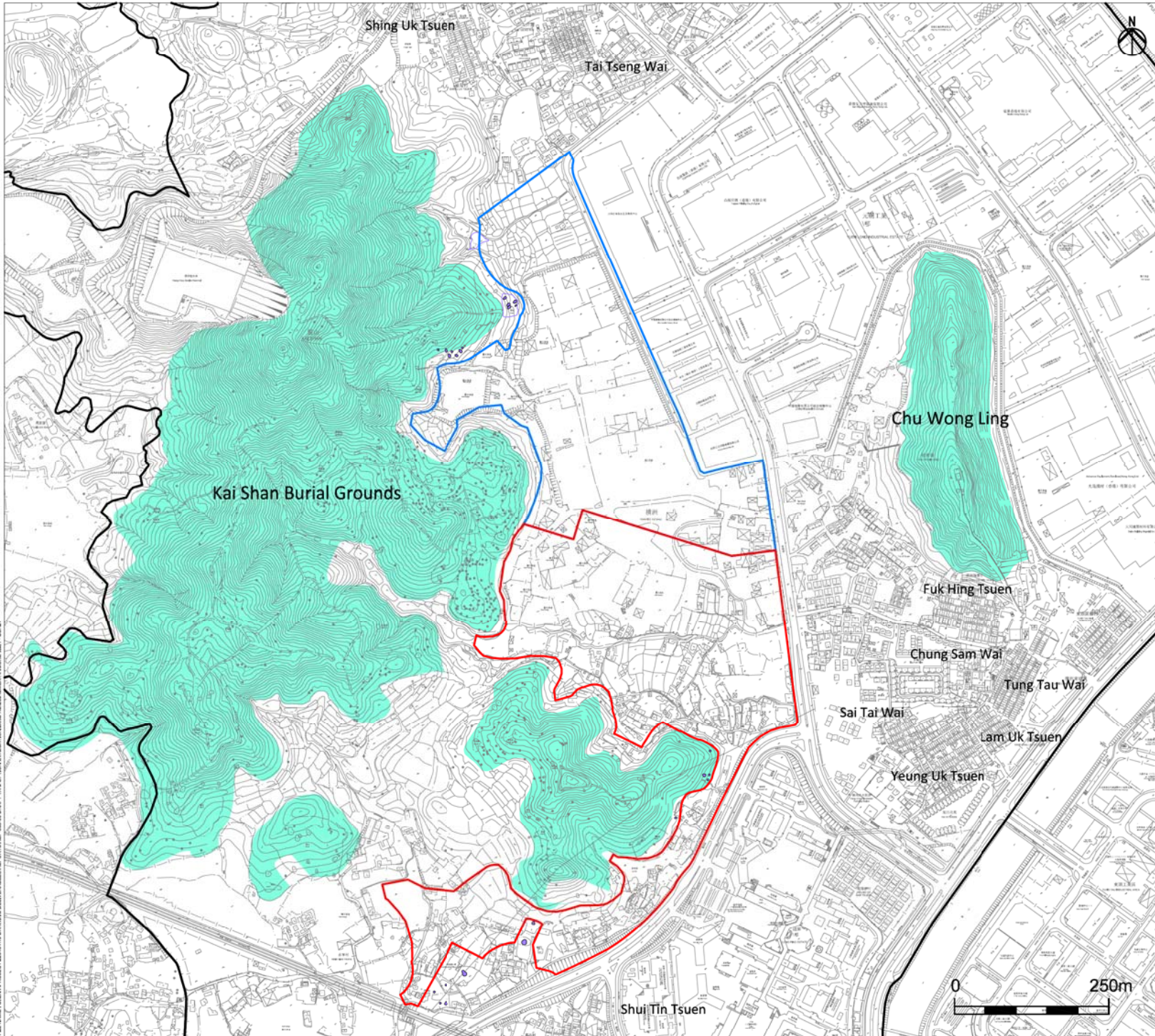
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**Legend**

- Study Area
- Public Housing Site
- Yuen Long Industrial Estate Extension
- Burial Grounds
- Grave (G)

A	FIRST ISSUE	GL	05/13
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<h1 style="margin: 0;">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			
Burial Grounds and Graves			
Drawing no.			
Figure 3.2.1			Rev. A
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GL	05/13	IL	ST
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USER: HKH02AC016 DATE: 20 MAY 2013 11:58AM  
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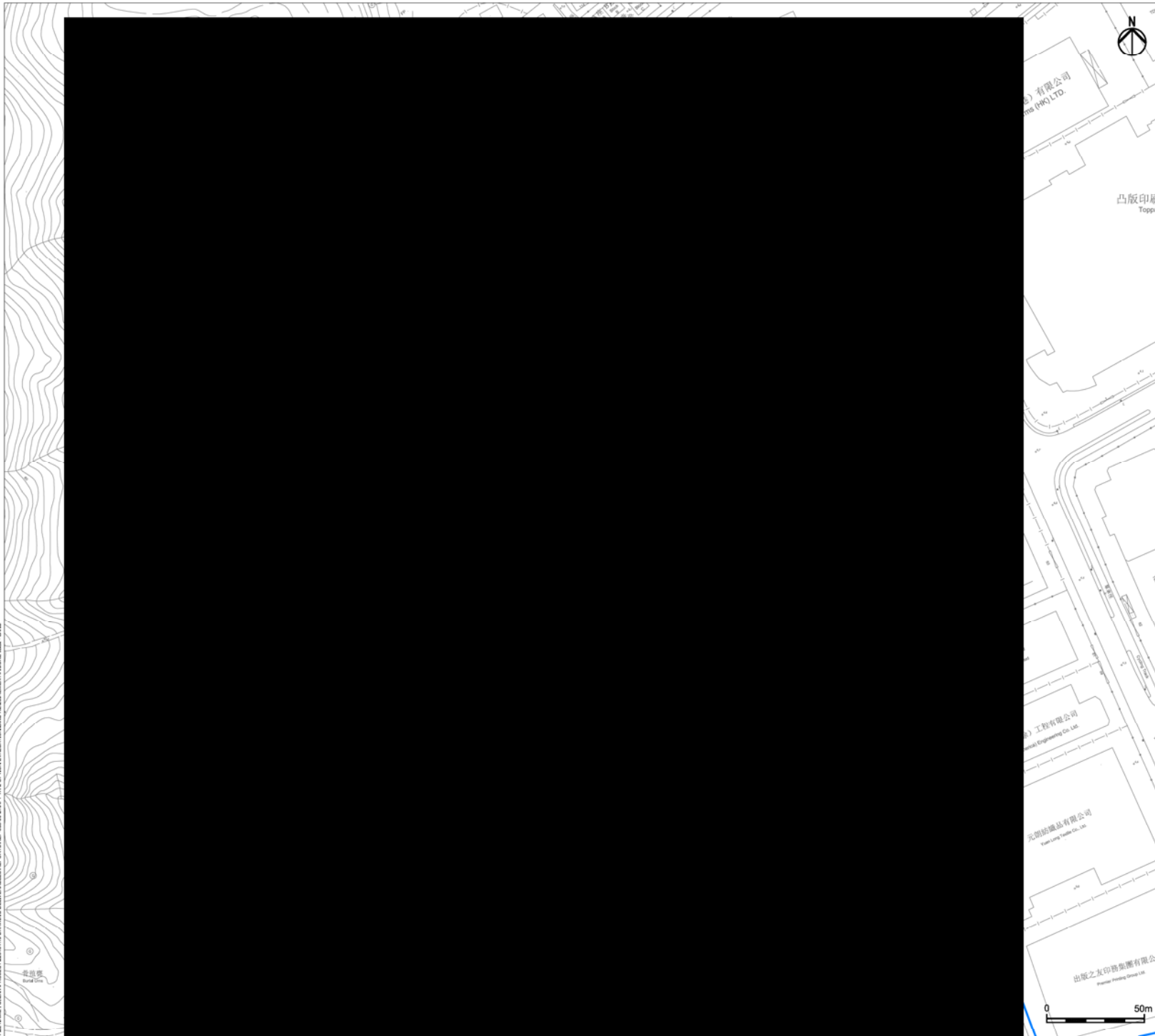
**Legend**

- Study Area
- Public Housing Site
- Yuen Long Industrial Estate Extension
- Old Schedule Lot (OSL)
- Tso and Tong Lot
- Letter of Approval (LOA)
- Modification of Tenancy (MOT)
- Building Licence (BL)
- Short-term Waiver (STW)
- New Grant Lot (NNG)
- Short Term Tenancy (STT)
- Government Land Licence (GLL)

A	FIRST ISSUE	GL	05/13	
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				
Land Status Plan				
Drawing no. Figure 3.2.2				Rev. A
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- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Old Schedule Lot (OSL)
  - Tso and Tong Lot
  - Letter of Approval (LOA)
  - Modification of Tenancy (MOT)
  - Building Licence (BL)
  - Short-term Waiver (STW)
  - New Grant Lot (NNG)
  - Short Term Tenancy (STT)
  - Government Land Licence (GLL)

A	FIRST ISSUE	GL	05/13	
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  
 Land Status Plan

Drawing no. Rev. A

Drawn Date Checked Approved

Scale Status

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**Legend**

- Study Area
- Public Housing Site
- Yuen Long Industrial Estate Extension
- Old Schedule Lot (OSL)
- Tso and Tong Lot
- Letter of Approval (LOA)
- Modification of Tenancy (MOT)
- Building Licence (BL)
- Short-term Waiver (STW)
- New Grant Lot (NNG)
- Short Term Tenancy (STT)
- Government Land Licence (GLL)

A	FIRST ISSUE	GL	05/13
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  
 Land Status Plan













Drawing no.		Figure 3.2.2b		Rev.	A
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**Legend**

-  Study Area
-  Public Housing Site
-  Yuen Long Industrial Estate Extension
-  Old Schedule Lot (OSL)
-  Tso and Tong Lot
-  Letter of Approval (LOA)
-  Modification of Tenancy (MOT)
-  Building Licence (BL)
-  Short-term Waiver (STW)
-  New Grant Lot (NNG)
-  Short Term Tenancy (STT)
-  Government Land Licence (GLL)

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A	FIRST ISSUE	GL	05/13
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

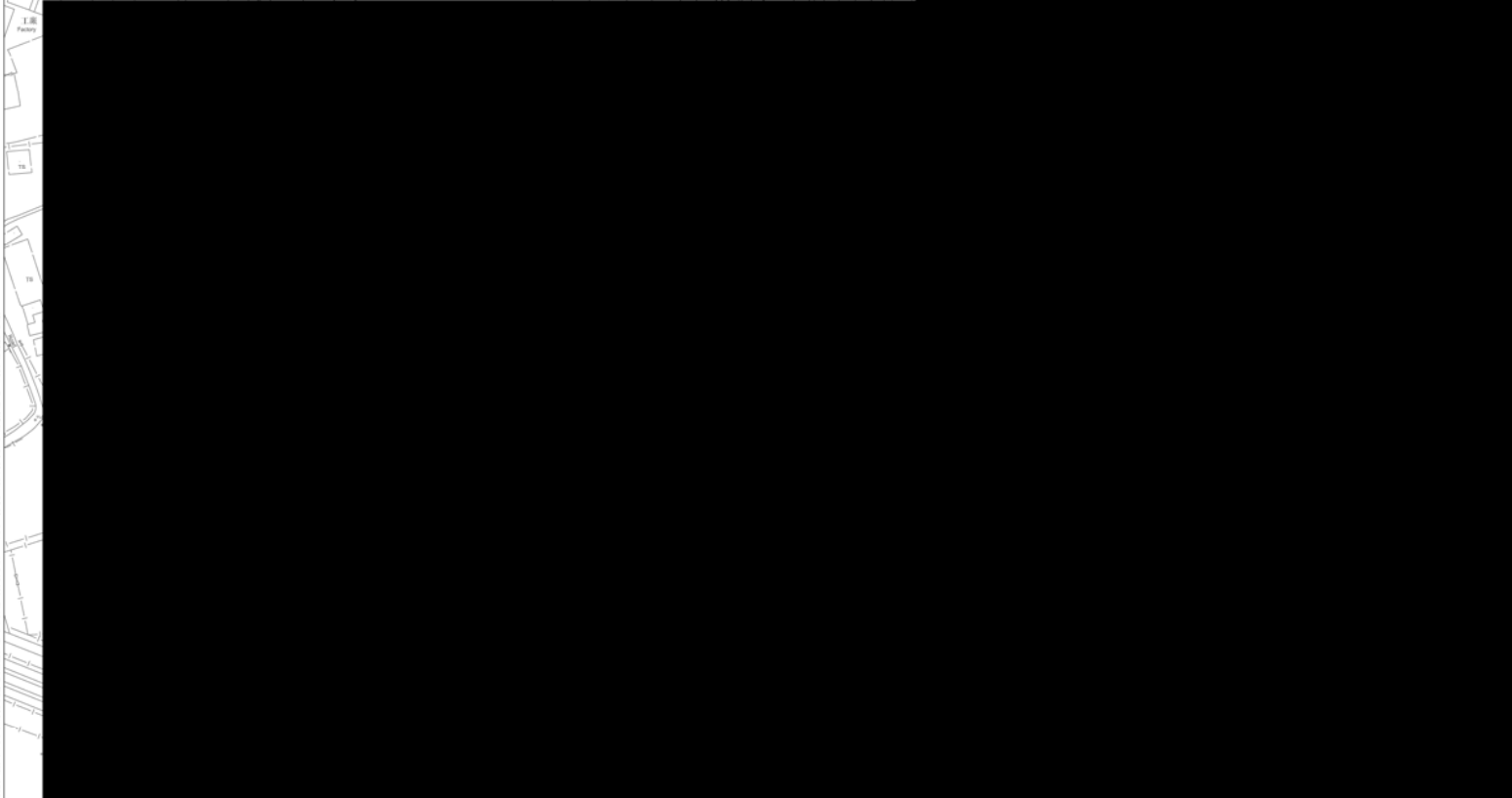
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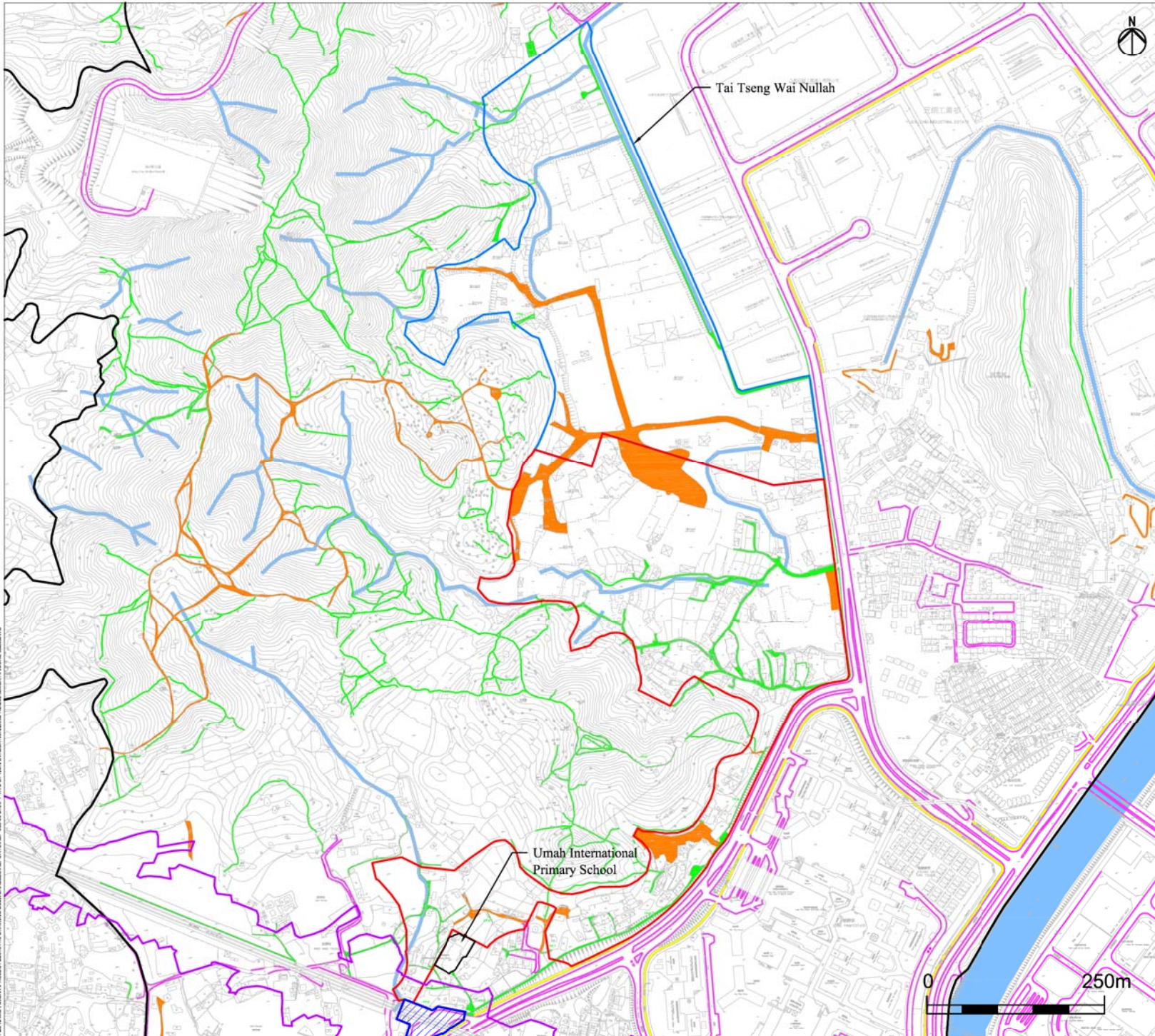
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Scale	AS SHOWN	Status	PRELIMINARY
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- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Existing Footpath
  - Existing Track
  - Existing Road
  - Existing Cycle Track
  - Existing Watercourses
  - MTRC Railway Protection Boundary
  - West Rail Emergency Access Point

A	FIRST ISSUE	GL	05/13
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  
 Existing Roads, Cycle Track, Footpath, Watercourses, West Rail Railway Protection Boundary and Emergency Access Point

Drawing no. Rev. A

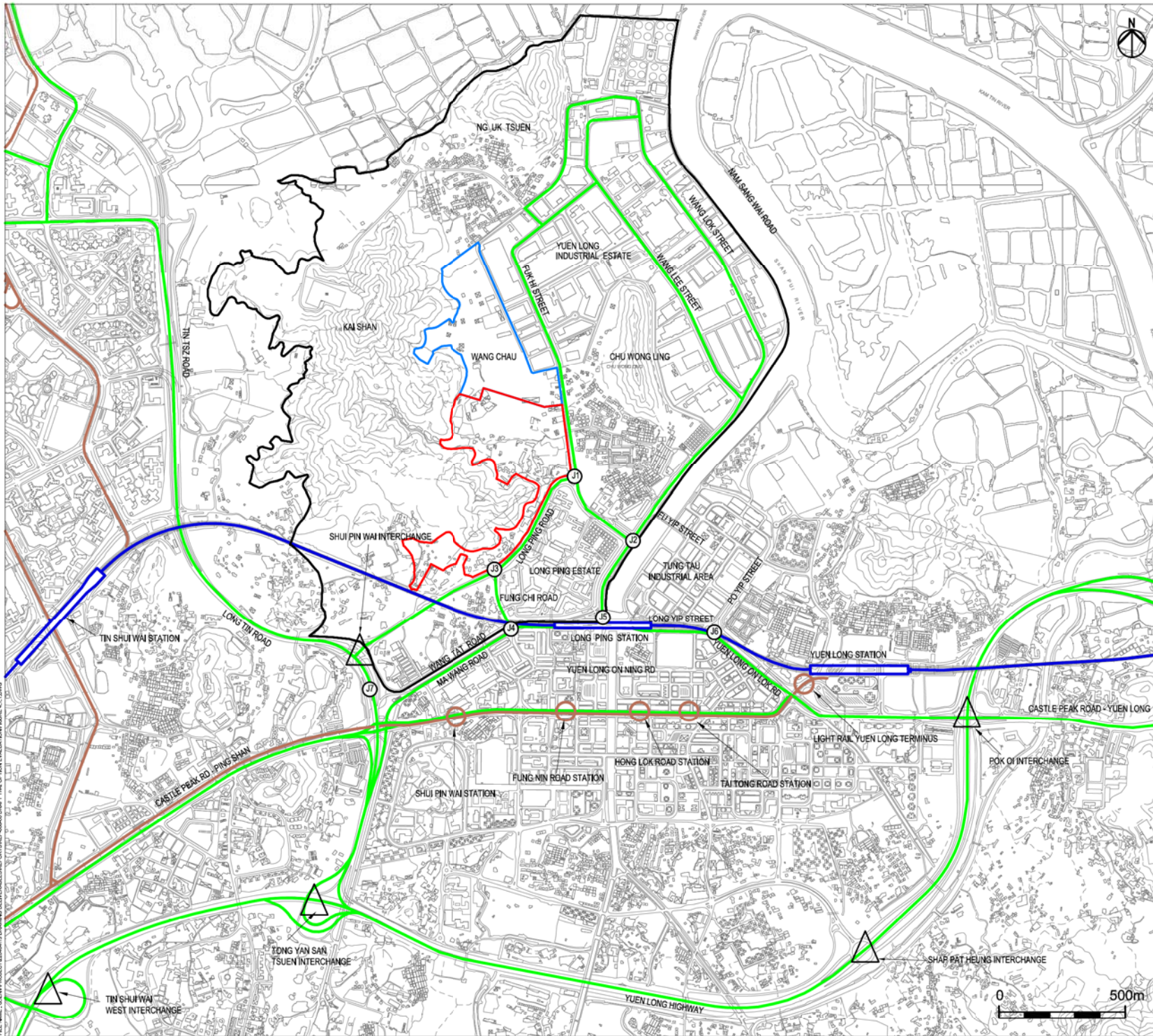
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Scale PRELIMINARY

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- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Existing Railway Line (LRT)
  - Existing Railway Line (West Rail)
  - Existing Road
  - Major Interchange
  - Surveyed Junction

A	FIRST ISSUE	KHC	05/13
Rev	Description	By	Date
Consultant			

**ARUP**

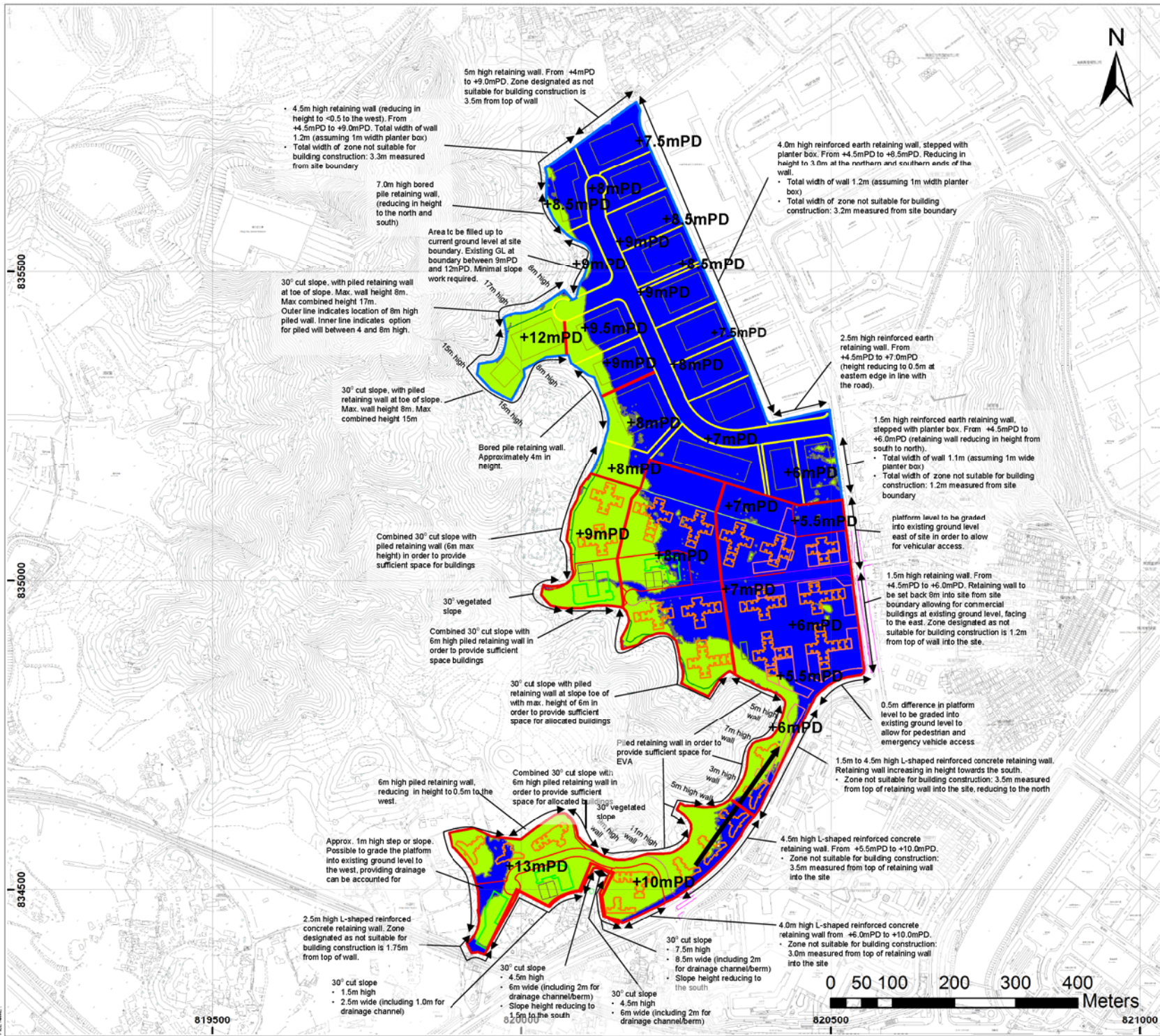
Project title  
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 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
**Assessed Road Junctions**

Drawing no.	Figure 4.1.1			Rev.	A
Drawn	KHC	Date	05/13	Checked	IL
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### Legend

- Public Housing (PH) Site
  - Yuen Long Industrial Estate Extension (YLIEE) Site
  - Direction of sloping platform
- Estimate Quantity**
- Cut = 383,500m<sup>3</sup>
  - Fill = 439,500m<sup>3</sup>
  - Platform Boundary

**Note:**

- Actual Cut and Fill Quantities are likely to vary from those estimated.
- Existing Ground Levels are likely to vary from those estimated.

Refinement of these details can be achieved in part by a site specific survey.

Rev	Description	By	Date
A	FISRT ISSUE	JC	23 May 2013

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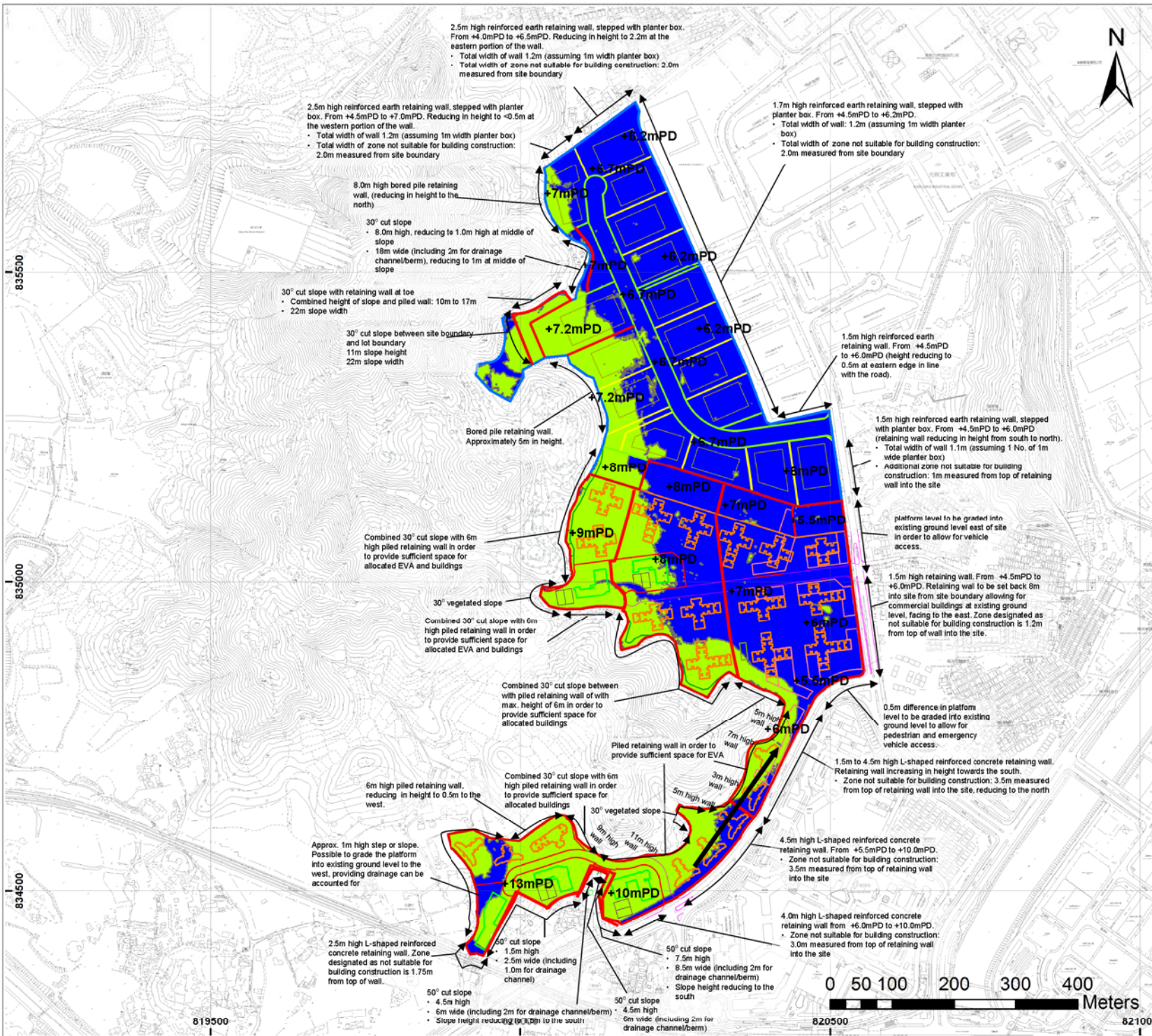
**Project title**  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

**Drawing title**  
 Site Formation Details  
 (PH Site Opt. 1, YLIEE Opt. A)

Drawing no.	Figure 4.3.1	Rev.	A
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Drawn	JC	Date	May 2013	Checked	JH	Approved	ST
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Scale	1:6000 (A3)	Status	PRELIMINARY
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### Legend

- Public Housing (PH) Site
  - Yuen Long Industrial Estate Extension (YLIEE) Site
  - Direction of sloping platform
- Estimate Quantity**
- Cut = 390,500m<sup>3</sup>
  - Fill = 290,500m<sup>3</sup>
  - Platform Boundary

**Note:**

- Actual Cut and Fill Quantities are likely to vary from those estimated.
- Existing Ground Levels are likely to vary from those estimated.

Refinement of these details can be achieved in part by a site specific survey.

Rev	Description	By	Date
A	FIRST ISSUE	JC	23 May 2013

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**  
 Site Formation Details  
 (PH Site Opt 2, YLIEE Opt B)



<b>Drawing no.</b>	Figure 4.3.2	<b>Rev.</b>	A
<b>Drawn</b>	JC	<b>Date</b>	May 2013
<b>Checked</b>	JH	<b>Approved</b>	ST
<b>Scale</b>	1:6000 (A3)	<b>Status</b>	PRELIMINARY

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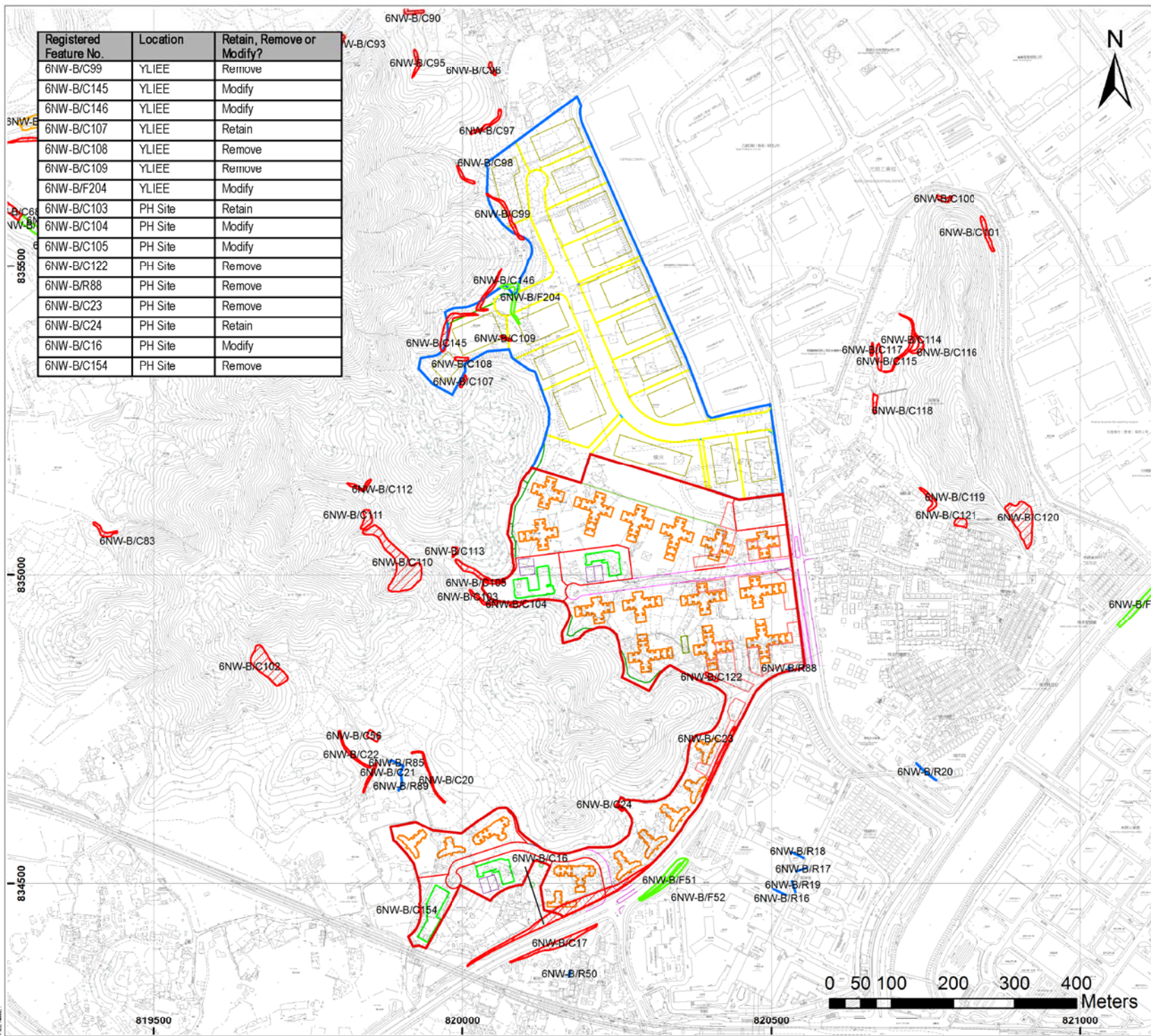
Registered Feature No.	Location	Retain, Remove or Modify?
6NW-B/C99	YLIEE	Remove
6NW-B/C145	YLIEE	Modify
6NW-B/C146	YLIEE	Modify
6NW-B/C107	YLIEE	Retain
6NW-B/C108	YLIEE	Remove
6NW-B/C109	YLIEE	Remove
6NW-B/F204	YLIEE	Modify
6NW-B/C103	PH Site	Retain
6NW-B/C104	PH Site	Modify
6NW-B/C105	PH Site	Modify
6NW-B/C122	PH Site	Remove
6NW-B/R88	PH Site	Remove
6NW-B/C23	PH Site	Remove
6NW-B/C24	PH Site	Retain
6NW-B/C16	PH Site	Modify
6NW-B/C154	PH Site	Remove

### Legend

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

### Registered Man-made Features

-  Cut Slope
-  Fill Slope
-  Retaining Wall
-  Disturbed Terrain



A	FIRST ISSUE	JC	23 May 2013
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  
 Registered Man-made Features  
 (PH Site Opt 1, YLIEE Opt A)


Drawing no.	Figure 4.4.1	Rev.	A
Drawn	JC	Date	May 2013
Checked	JH	Approved	ST
Scale	1:6000 (A3)	Status	PRELIMINARY

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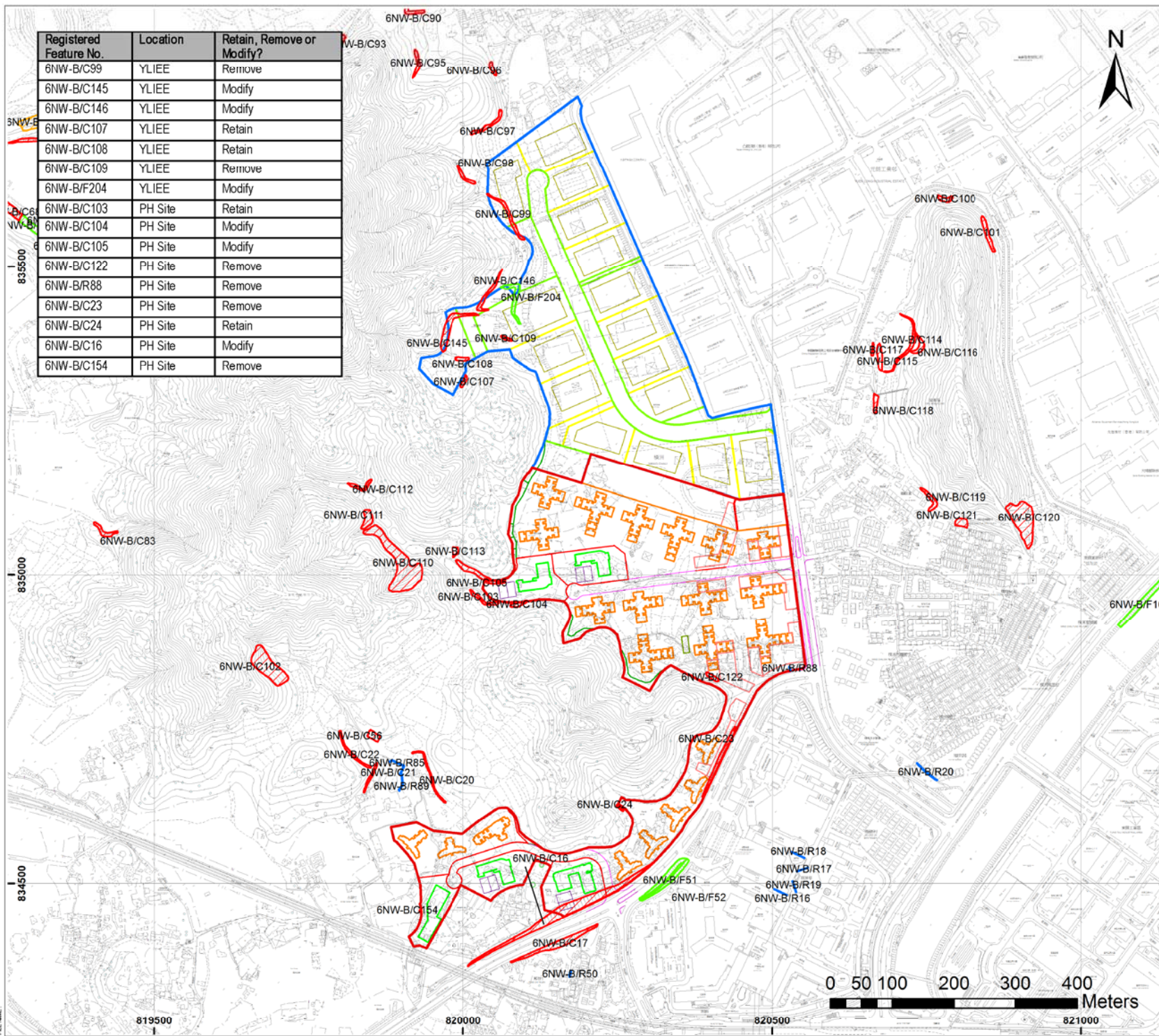
Registered Feature No.	Location	Retain, Remove or Modify?
6NW-B/C99	YLIEE	Remove
6NW-B/C145	YLIEE	Modify
6NW-B/C146	YLIEE	Modify
6NW-B/C107	YLIEE	Retain
6NW-B/C108	YLIEE	Retain
6NW-B/C109	YLIEE	Remove
6NW-B/F204	YLIEE	Modify
6NW-B/C103	PH Site	Retain
6NW-B/C104	PH Site	Modify
6NW-B/C105	PH Site	Modify
6NW-B/C122	PH Site	Remove
6NW-B/R88	PH Site	Remove
6NW-B/C23	PH Site	Remove
6NW-B/C24	PH Site	Retain
6NW-B/C16	PH Site	Modify
6NW-B/C154	PH Site	Remove

**Legend**

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

**Registered Man-made Features**

-  Cut Slope
-  Fill Slope
-  Retaining Wall
-  Disturbed Terrain



A	FIRST ISSUE	JC	23 May 2013
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Consultant



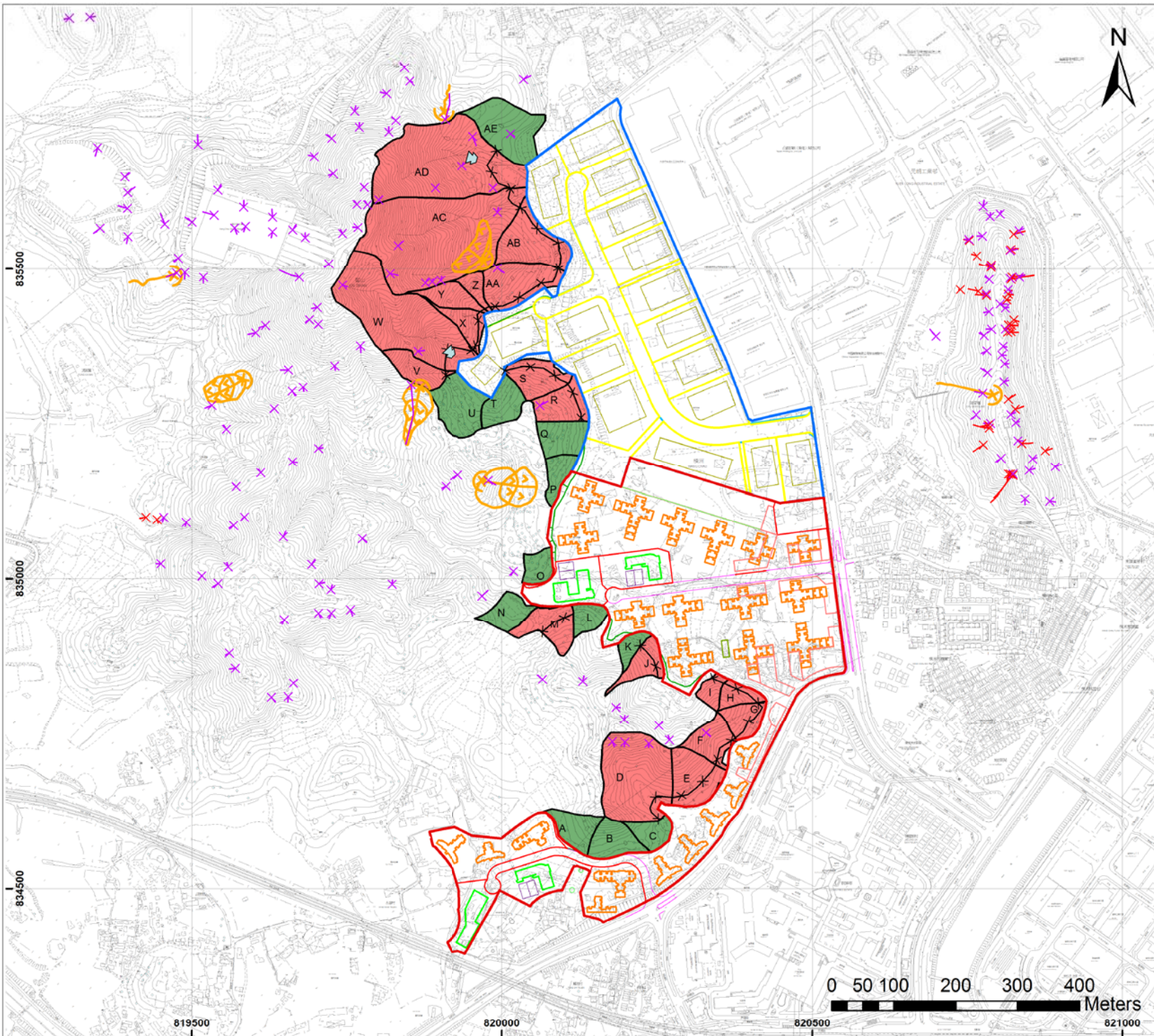
Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Registered Man-made Features (PH Site Opt. 2, YLIEE Opt. B)

Drawing no.	Figure 4.4.2	Rev.	A
Drawn	JC	Date	May 2013
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**Legend**

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

**GIU Records of Past Instability**

- X Recent (ENTLI Record)
- X Relict (ENTLI Record)
- Large Landslides Inventory
- + Landslide Incidents (as of 2008)

**NTHS Screening**  
(according to GEO Report No. 138)

- NTHS not required
- NTHS required

**Possible NTH Measures**

- X Flexible Barrier
- Concrete Check Dam

A	FIRST ISSUE	JC	23 May 2013
Rev	Description	By	Date

Consultant  
**ARUP**

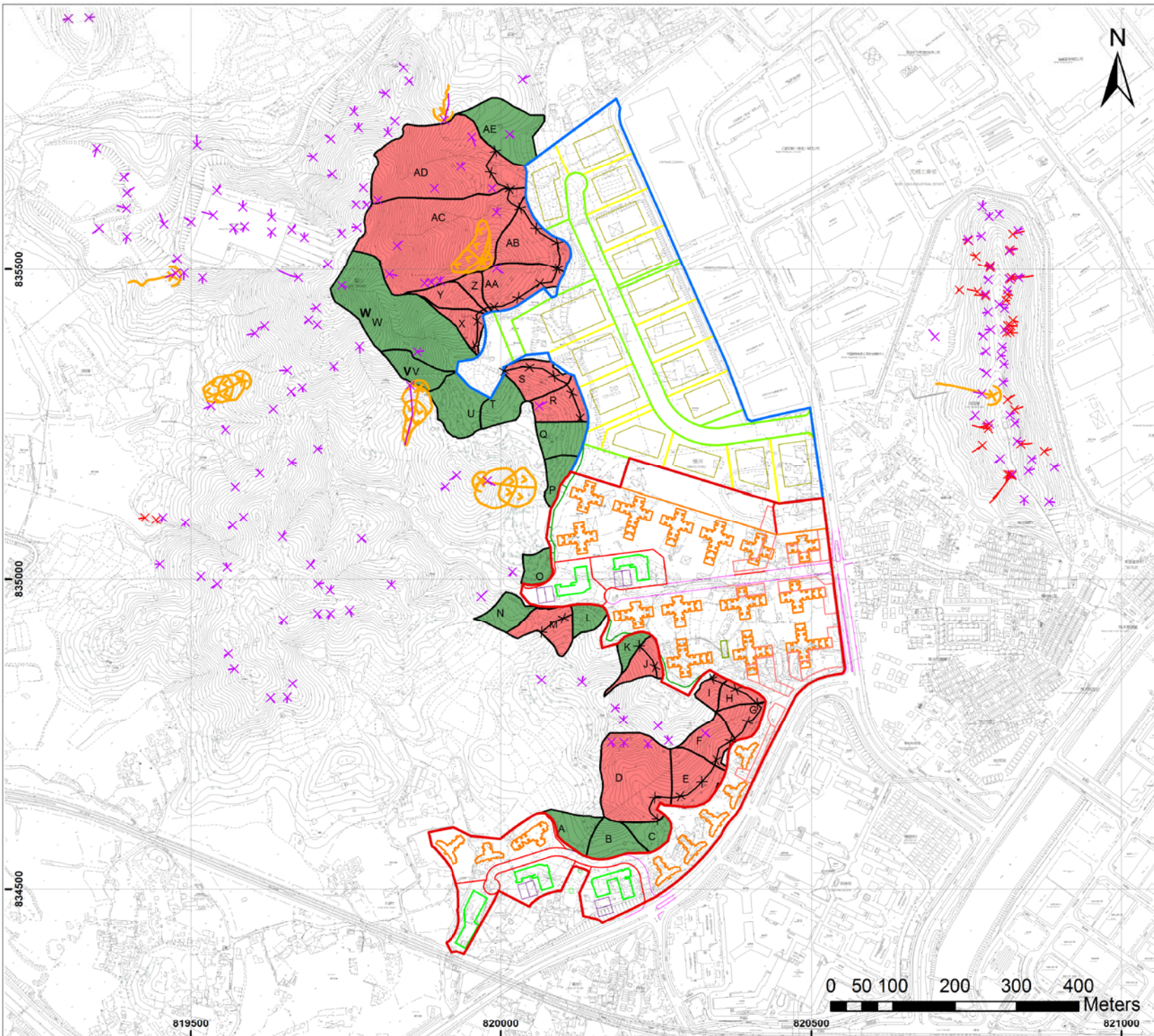
Project title  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
Natural Terrain Hazards and Outline Mitigation Measures (PH Site Opt 1, YLIEE Opt. A)

Drawing no.	Figure 4.5.1		Rev.	A			
Drawn	JC	Date	May 2013	Checked	JH	Approved	ST
Scale	1:6000 (A3)		Status	PRELIMINARY			

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- Legend**
- Public Housing (PH) Site
  - Yuen Long Industrial Estate Extension (YLIEE) Site
- GIU Records of Past Instability**
- X Recent (ENTLI Record)
  - X Relict (ENTLI Record)
  - ~ Large Landslides Inventory
  - + Landslide Incidents (as of 2008)
- NTHS Screening**  
(according to GEO Report No. 138)
- NTHS not required
  - NTHS required
- Possible NTH Measures**
- X Flexible Barrier
  - ⬇ Concrete Check Dam

A	FIRST ISSUE	JC	23 May 2013
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

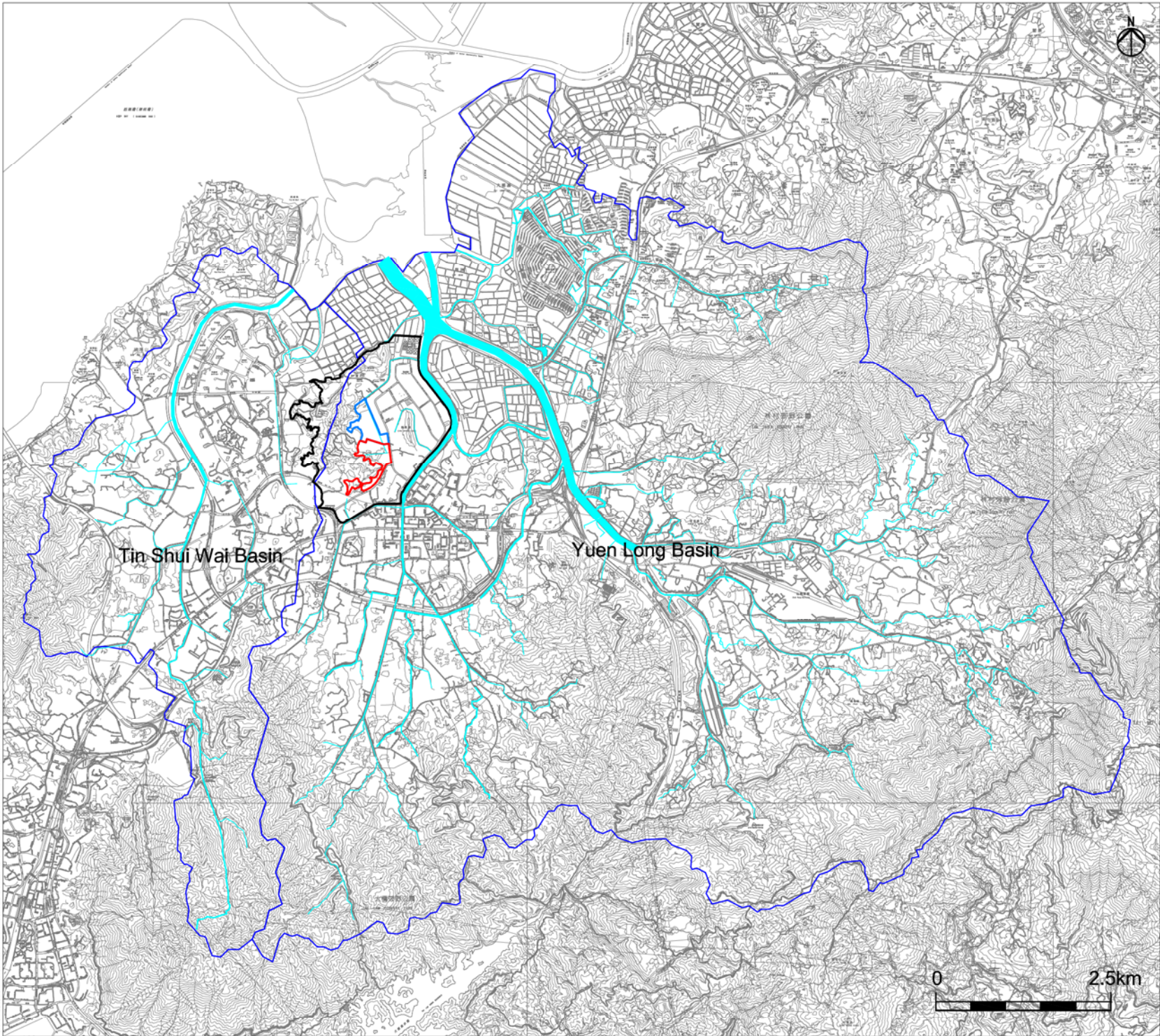
Drawing title  
 Natural Terrain Hazards and Outline Mitigation Measures  
 (PH Site Opt.2, YLIEE Opt. B)

Drawing no.	Figure 4.5.2		Rev.	A			
Drawn	JC	Date	May 2013	Checked	JH	Approved	ST
Scale	1:6000 (A3)		Status	PRELIMINARY			

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Legend

- Study Area
- Public Housing Site
- Yuen Long Industrial Estate Extension

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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

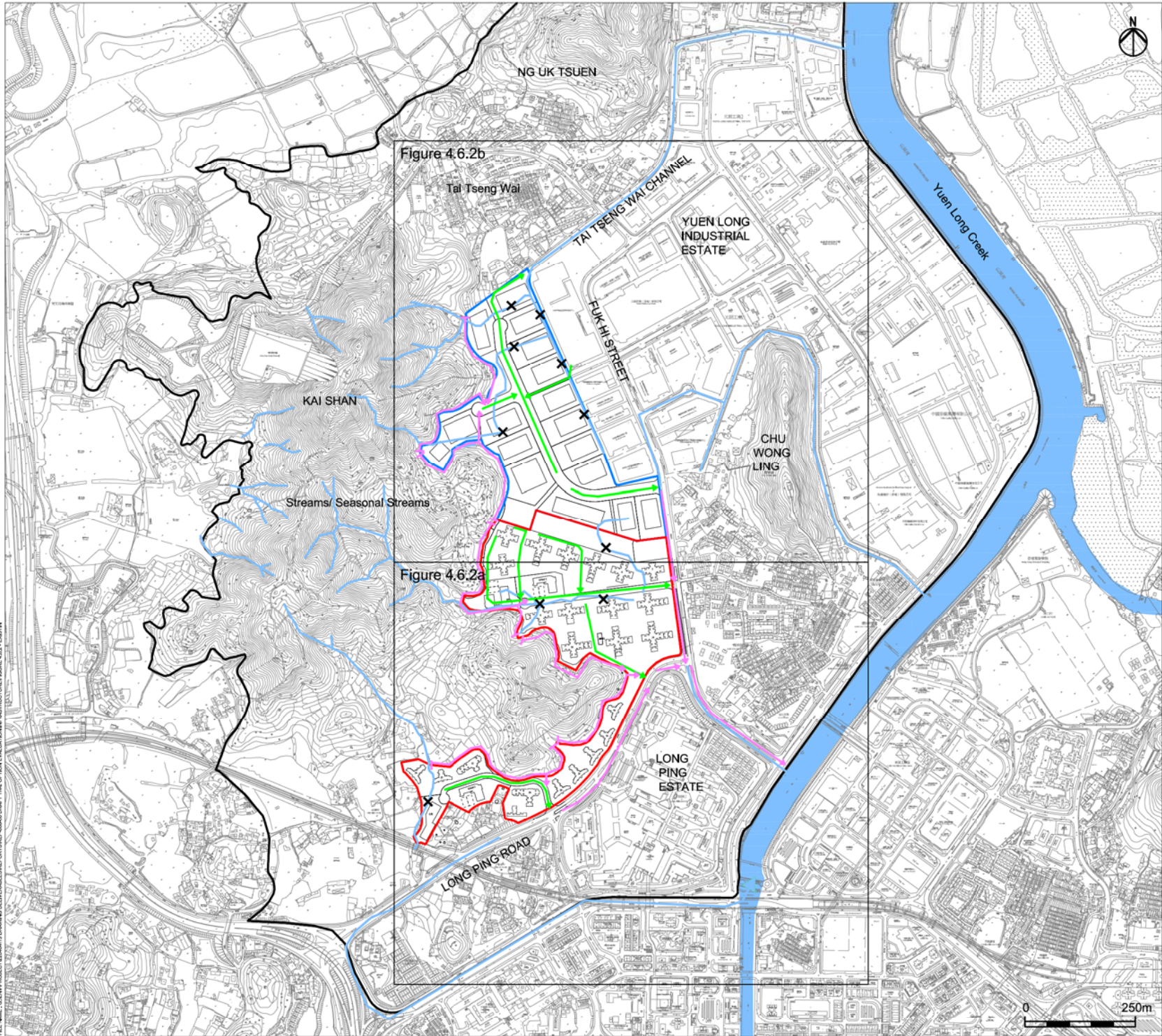
Drawing title  
 General Boundary of Yuen Long Basin and Tin Shui Wai Basin








Drawing no.	Figure 4.6.1			Rev.	A
Drawn	GL	Date	05/13	Checked	IL
Scale	AS SHOWN		Status	PRELIMINARY	

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- Legend**
-  Study Area
  -  Potential Public Housing Development Site
  -  Yuen Long Industrial Estate Extension
  -  Existing Watercourse / Drainage
  -  Existing Watercourse / Drainage to be Demolished
  -  Proposed Stormwater Drainage to be Connected to the Proposed Internal Stormwater Drainage
  -  Proposed Internal Stormwater Drainage

A	FIRST ISSUE	GL	05/13
Rev	Description	By	Date

Consultant  
**ARUP**

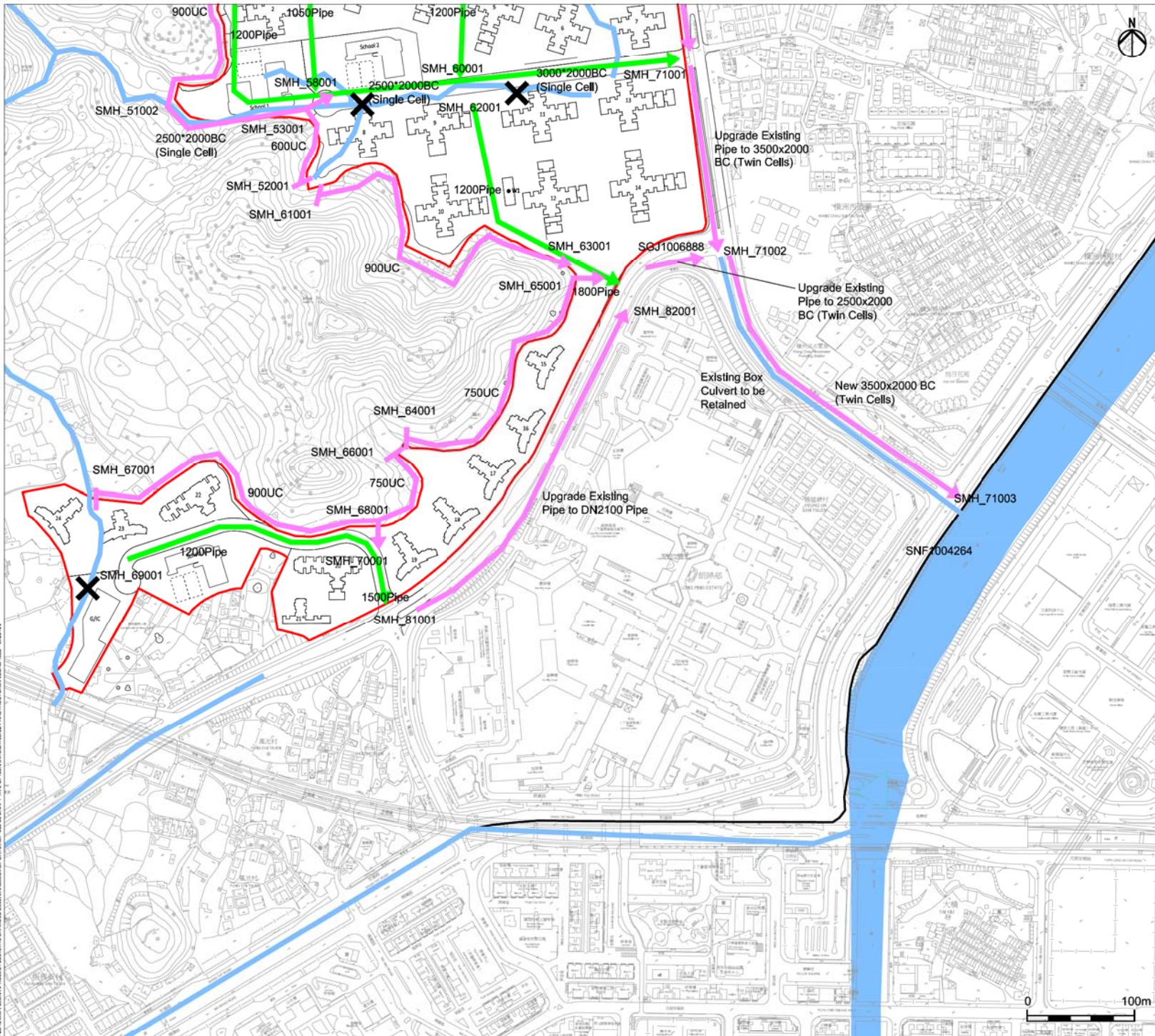
Project title  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
Existing and Proposed Stormwater Drainage Layout

Drawing no.	Figure 4.6.2	Rev.	A
Drawn	GL	Date	05/13
Checked	IL	Approved	ST
Scale	AS SHOWN	Status	PRELIMINARY



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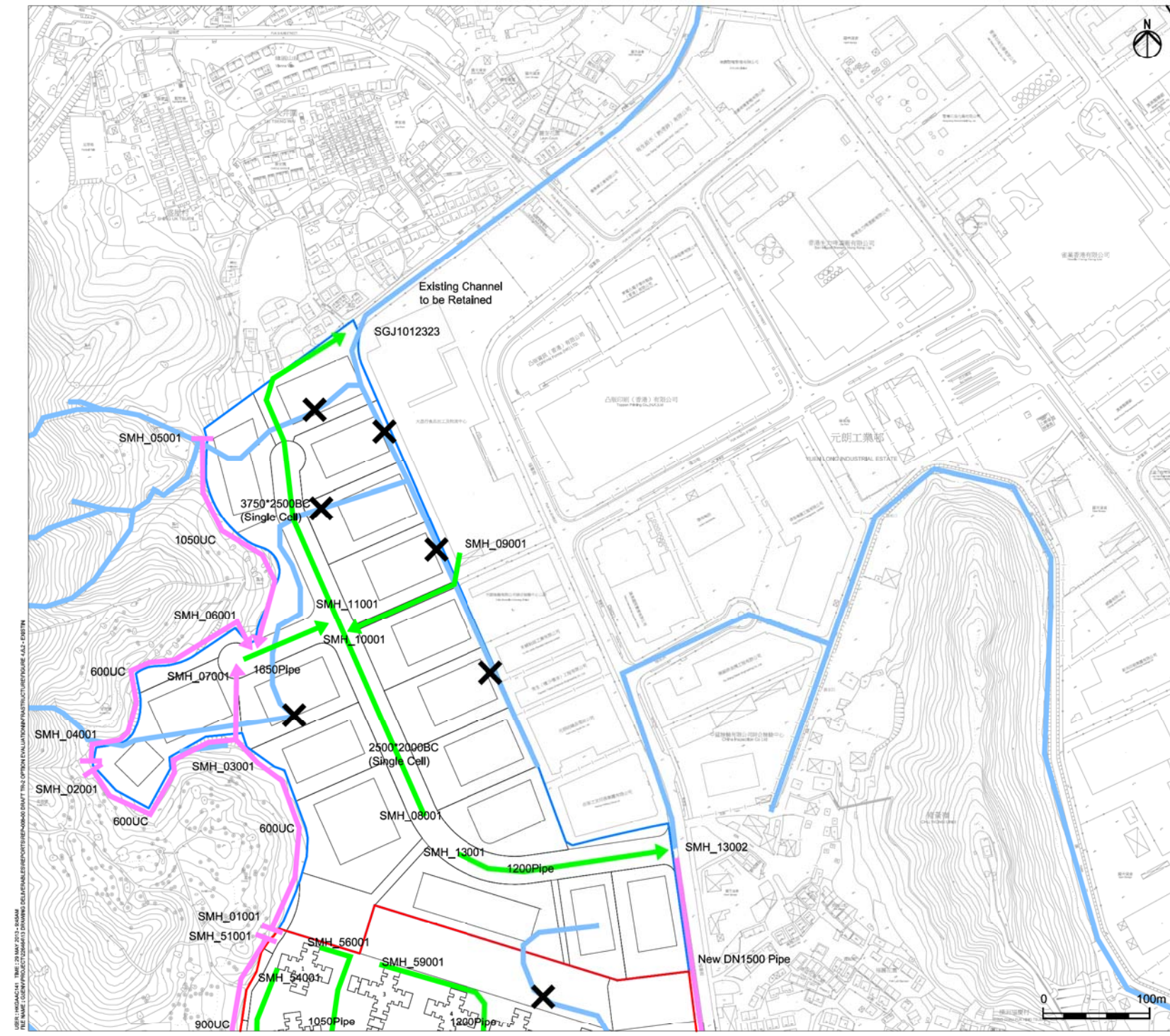
**Legend**

- Study Area
- Potential Public Housing Development Site
- Yuen Long Industrial Estate Extension
- Existing Watercourse / Drainage
- Existing Watercourse / Drainage to be Demolished
- Proposed Stormwater Drainage to be Connected to the Proposed Internal Stormwater Drainage
- Proposed Internal Stormwater Drainage

A	FIRST ISSUE	GL	05/13
Rev	Description	By	Date
Consultant			
<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			
Existing and Proposed Stormwater Drainage Layout			
Drawing no.		Rev.	
Figure 4.6.2a		A	
Drawn	Date	Checked	Approved
GL	05/13	IL	ST
Scale		Status	
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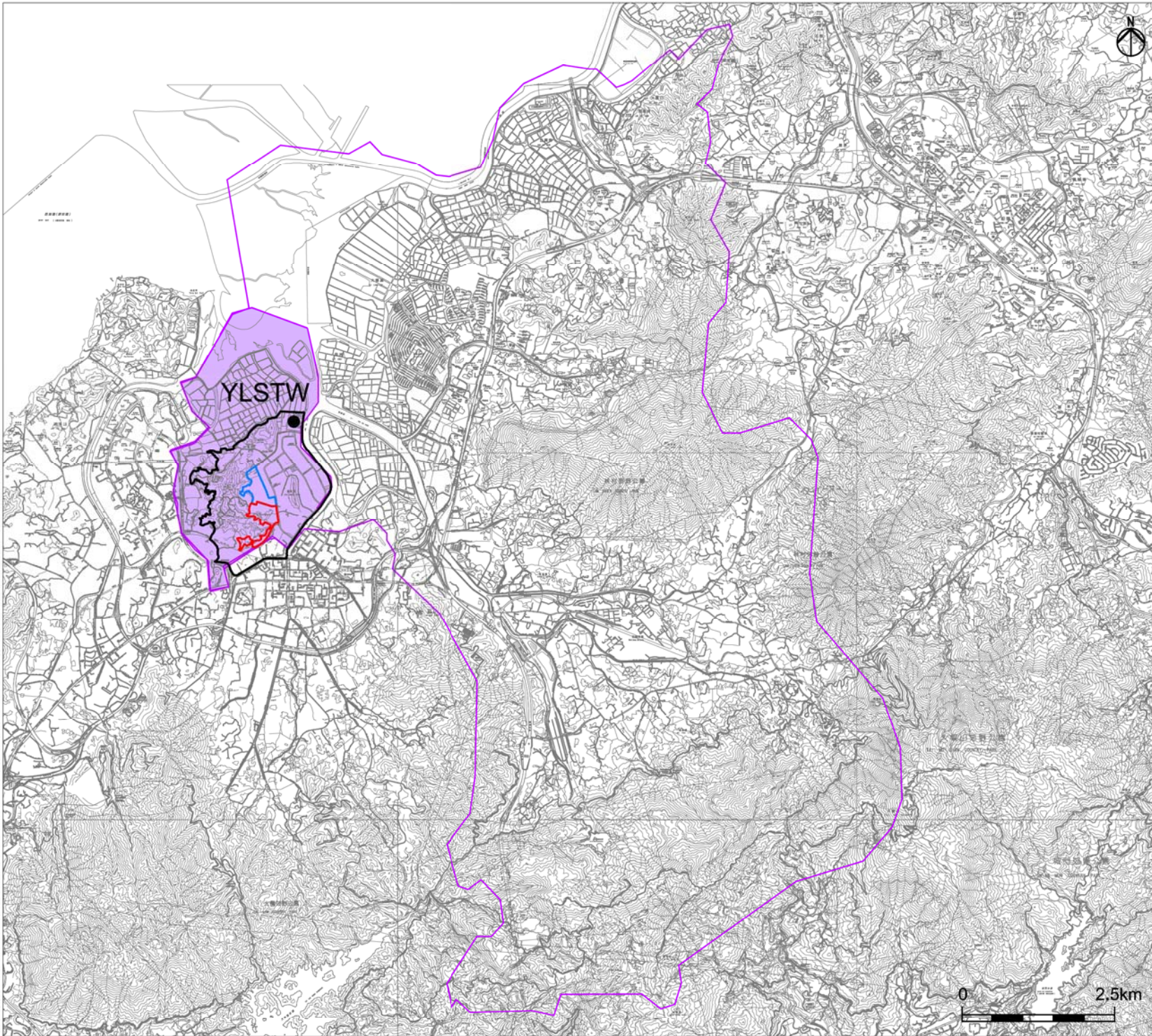
**Legend**







- Study Area
- Potential Public Housing Development Site
- Yuen Long Industrial Estate Extension
- Existing Watercourse / Drainage
- X Existing Watercourse / Drainage to be Demolished
- ➔ Proposed Stormwater Drainage to be Connected to the Proposed Internal Stormwater Drainage
- ➔ Proposed Internal Stormwater Drainage

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A	FIRST ISSUE	GL	05/13	
Rev	Description	By	Date	
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Drawing title				
Existing and Proposed Stormwater Drainage Layout				
Drawing no.				
Figure 4.6.2b				Rev. A
Drawn	GL	Date	05/13	Checked
				IL
Scale		Status		
AS SHOWN		PRELIMINARY		
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- Legend**
-  Study Area
  -  Public Housing Site
  -  Yuen Long Industrial Estate Extension
  -  2002 Yuen Long Sewerage Catchment
  -  2016 Yuen Long Sewerage Catchment
  -  Existing Sewage Treatment Works (STW)

USER: HKCAD108 TIME: 24 MAY 2013 - 12:28 AM  
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A	FIRST ISSUE	GL	05/13
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

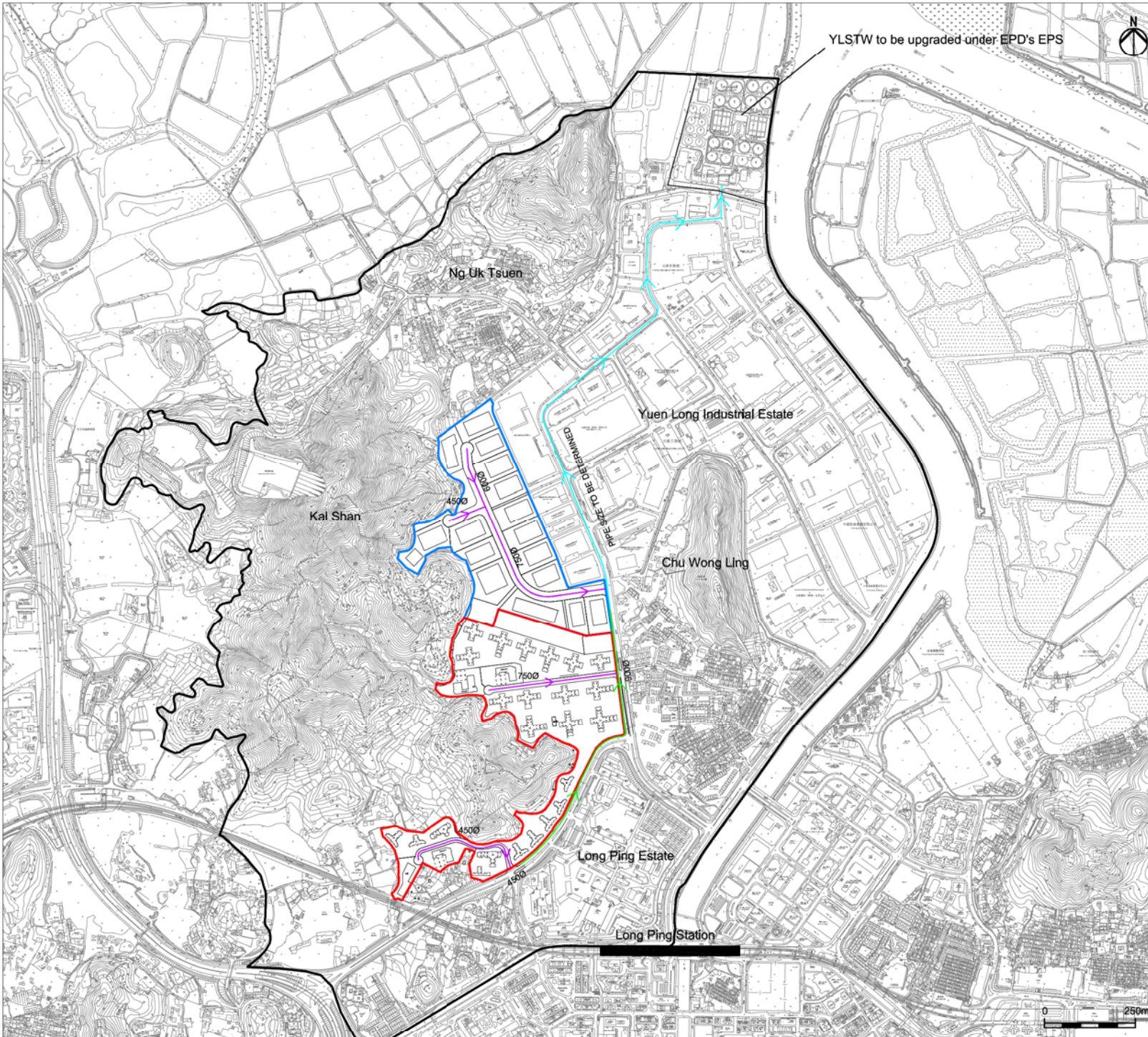
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**General Layout of Yuen Long Sewerage  
 Catchment and Location of YLSTW**

Drawing no.	Figure 4.7.1			Rev.	A
Drawn	GL	Date	05/13	Checked	IL
				Approved	ST
Scale	AS SHOWN		Status	PRELIMINARY	

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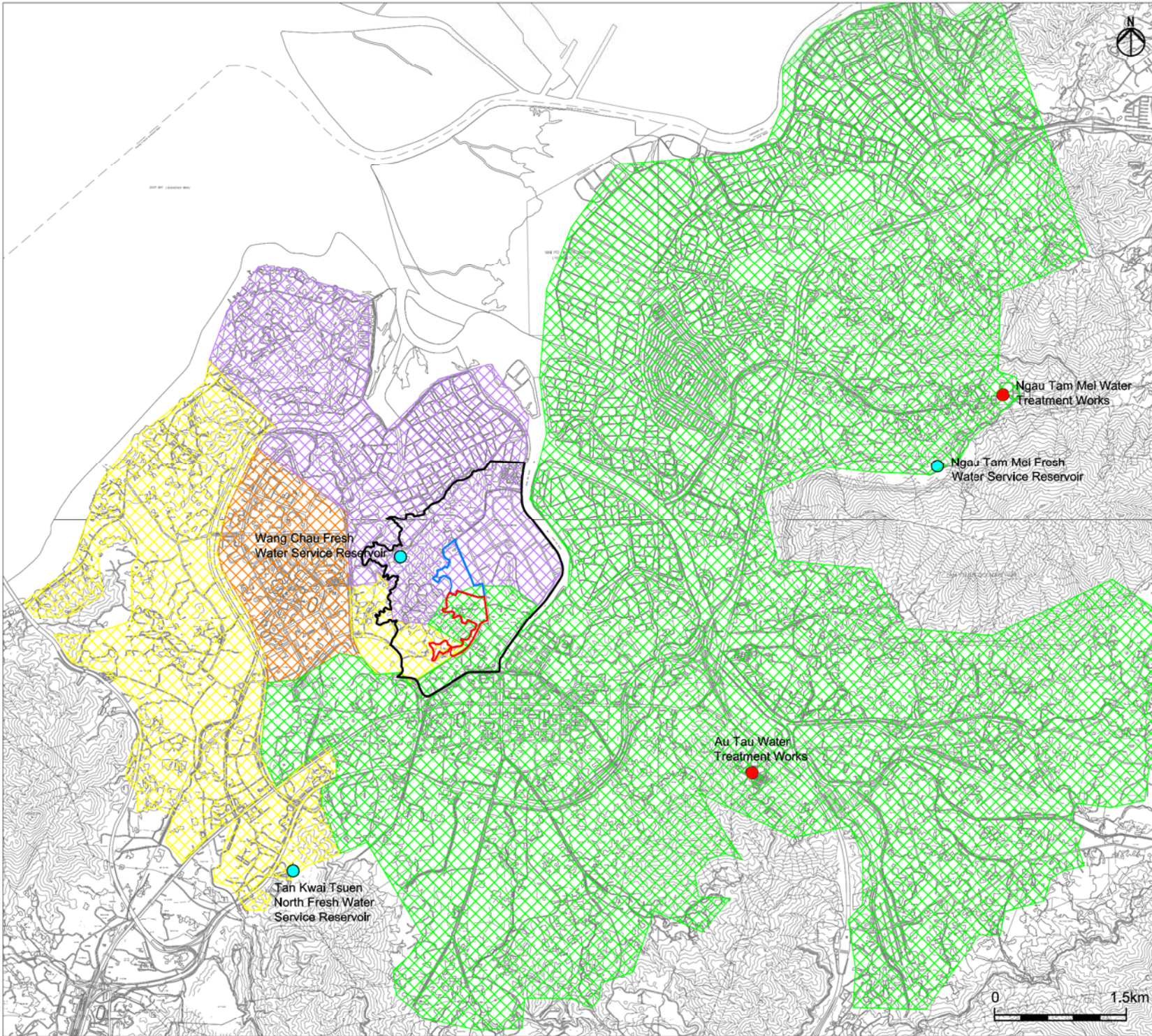
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YLSTW to be upgraded under EPD's EPS



- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Existing Sewerage to be upgraded
  - Proposed Sewerage
  - Proposed Internal Sewerage

A	FIRST ISSUE	GL	05/13	
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Consultant				
<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				
Existing and Proposed Sewerage Layout				
Drawing no.	Figure 4.7.2	Rev.	A	
Drawn	GL	Date	05/13	Checked
Scale	AS SHOWN	Status	IL	Approved
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- Legend**
-  Study Area
  -  Public Housing Site
  -  Yuen Long Industrial Estate Extension
  -  Wang Chau Fresh Water Service Reservoir Supply Zone
  -  Tan Kwai Tsuen North Fresh Water Service Reservoir Supply Zone
  -  Joint Wang Chau and Tan Kwai Tsuen North Fresh Water Service Reservoir Supply Zone
  -  Ngau Tam Mei Fresh Water Primary Service Reservoir Supply Zone
  -  Existing Fresh Water Service Reservoirs
  -  Water Treatment Works

A	FIRST ISSUE	GL	05/13
Rev	Description	By	Date

Consultant

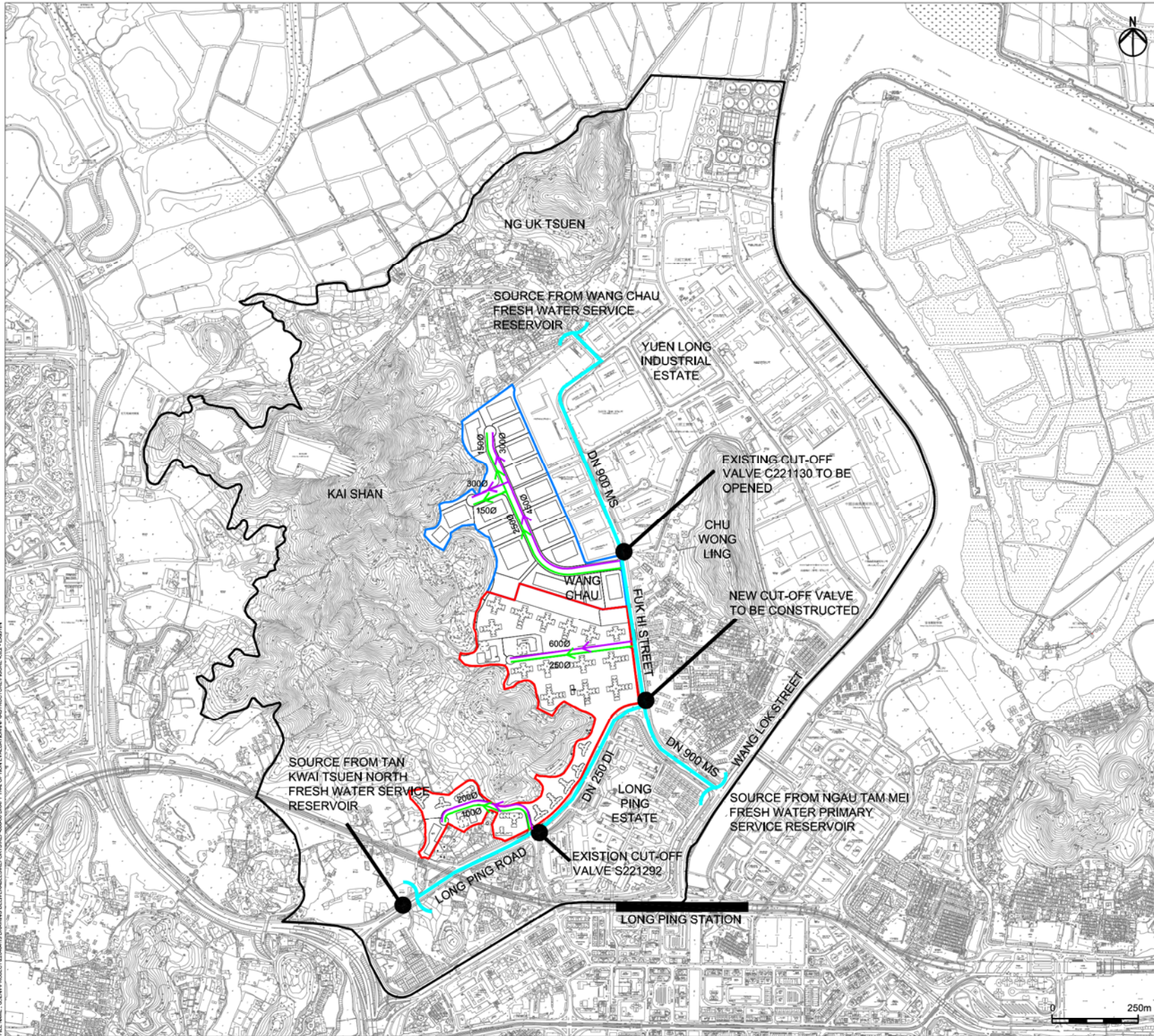
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Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
**Key Waterworks and Fresh Water Service Reservoir Supply Zones**

Drawing no.	Figure 4.8.1			Rev.	A
Drawn	GL	Date	05/13	Checked	IL
				Approved	ST
Scale	AS SHOWN		Status	PRELIMINARY	

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- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Existing Fresh Water Distribution Main
  - Proposed Freshwater Connection
  - Proposed Flushing Water Connection

A	FIRST ISSUE	GL	05/13
Rev	Description	By	Date

**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  
 Existing and Proposed Water Supply Layout

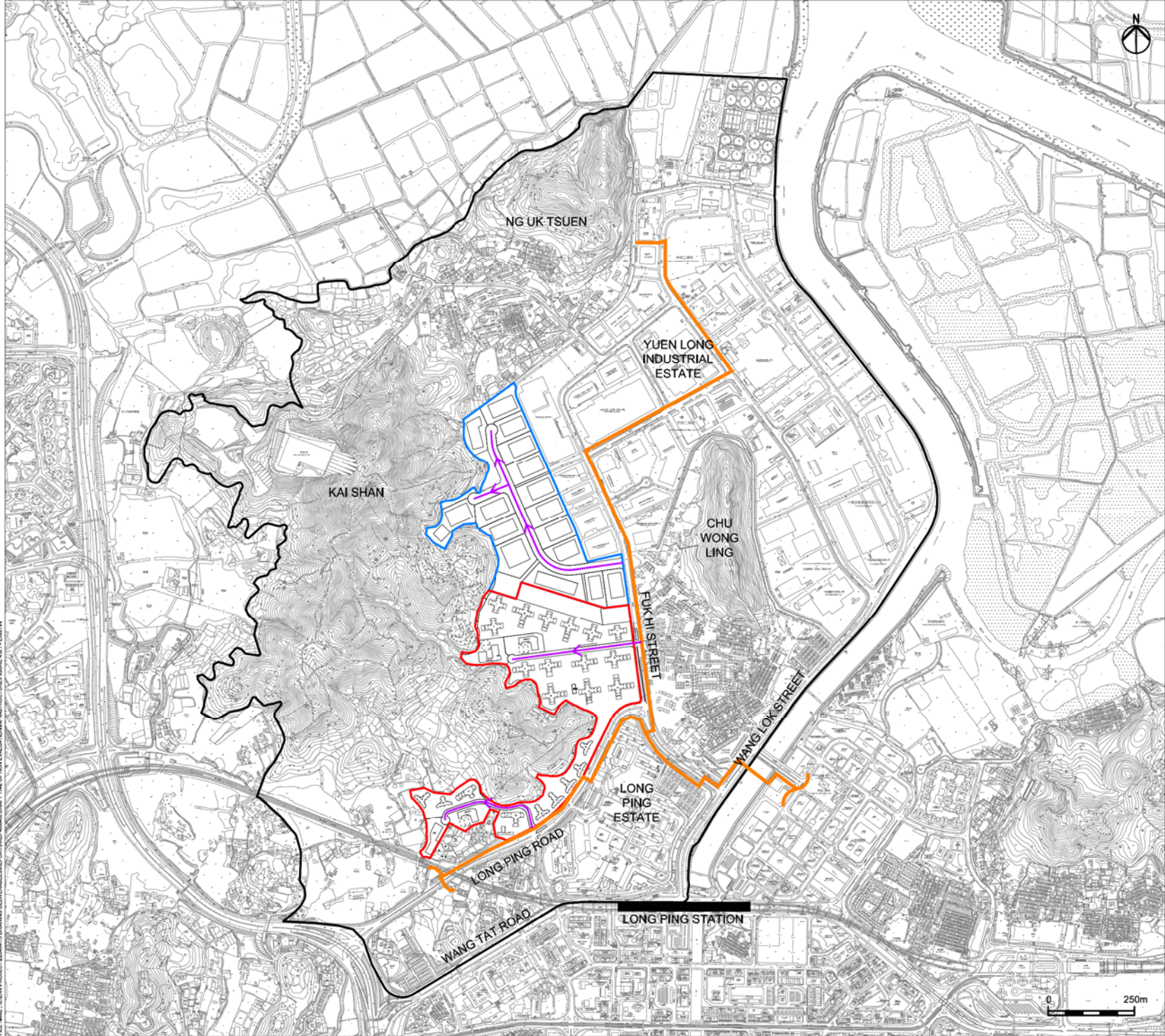
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Scale	AS SHOWN	Status	PRELIMINARY

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- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Existing Medium Pressure (MP) Gas Main
  - Proposed Connection

A	FIRST ISSUE	GL	05/13
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

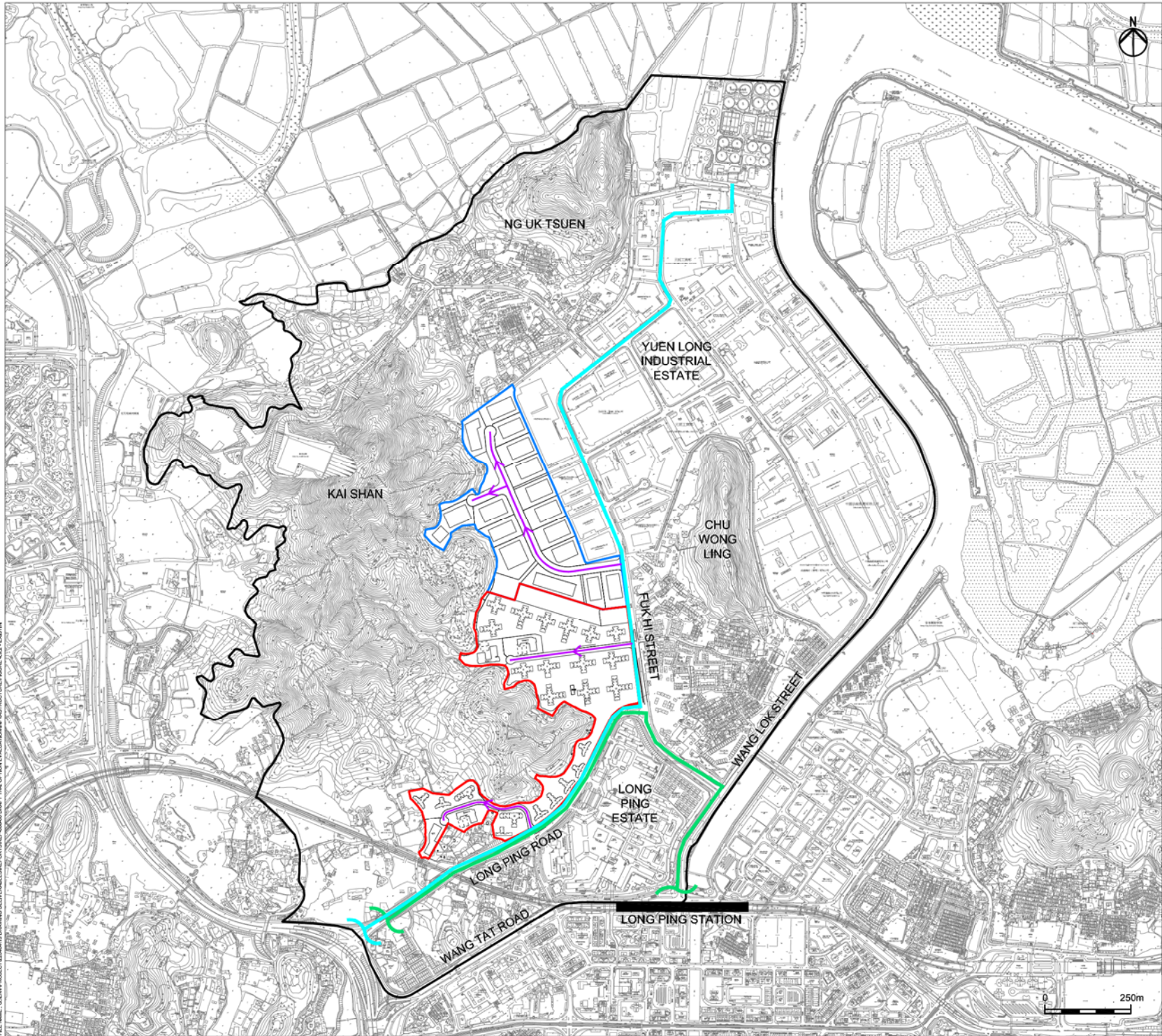
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Drawn	GL	Date	05/13	Checked	IL
Scale	AS SHOWN		Status	PRELIMINARY	

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- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Existing 132kV Power Cable
  - Existing 11kV Power Cable
  - Proposed Connection



A	FIRST ISSUE	GL	05/13
Rev	Description	By	Date

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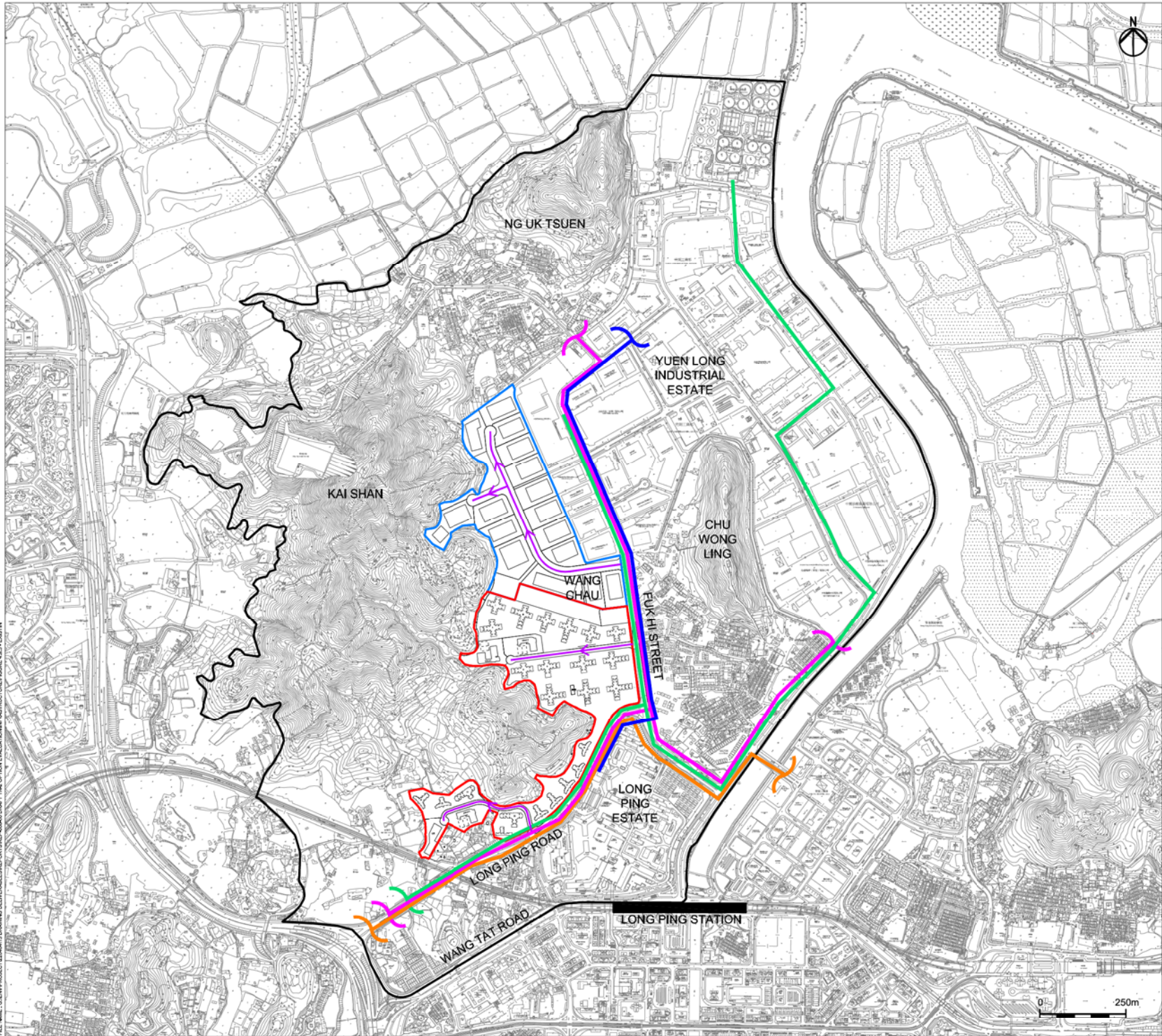
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Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
Existing and Proposed Power Supply Layout

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Drawn	GL	Date	05/13
Checked	IL	Approved	ST
Scale	AS SHOWN	Status	PRELIMINARY

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- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Existing HGC Cable
  - Existing PCCW Cable
  - Existing Cable TV Cable
  - Existing Wharf T&T Cable
  - Proposed Connection



A	FIRST ISSUE	GL	05/13
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

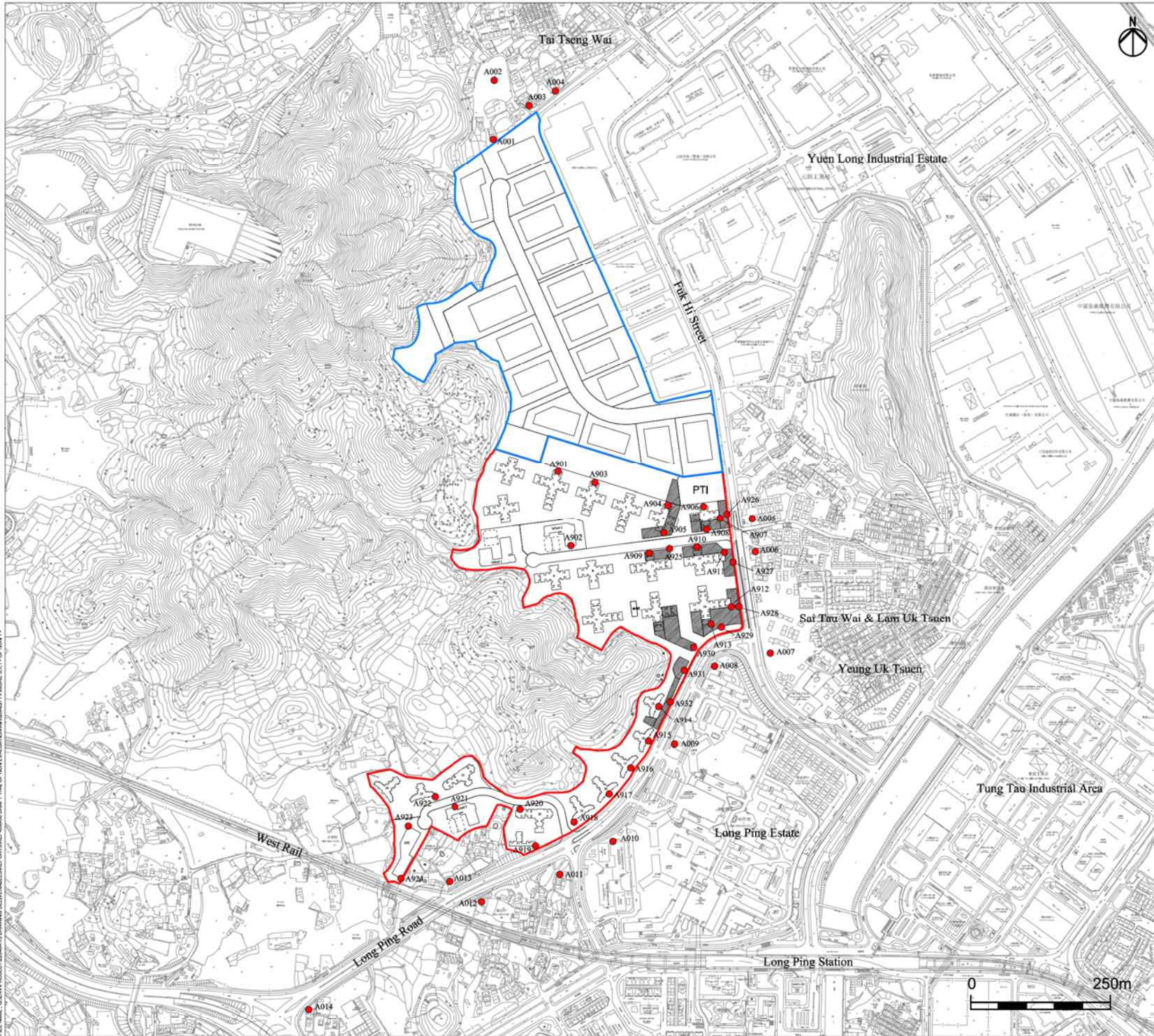
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 Existing and Proposed Telecommunication Cable Layout

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Drawn	GL	Date	05/13	Checked	IL
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- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Representative Air Sensitive Receiver

A	FIRST ISSUE	GL	05/13
Rev	Description	By	Date

Consultant  
**ARUP**

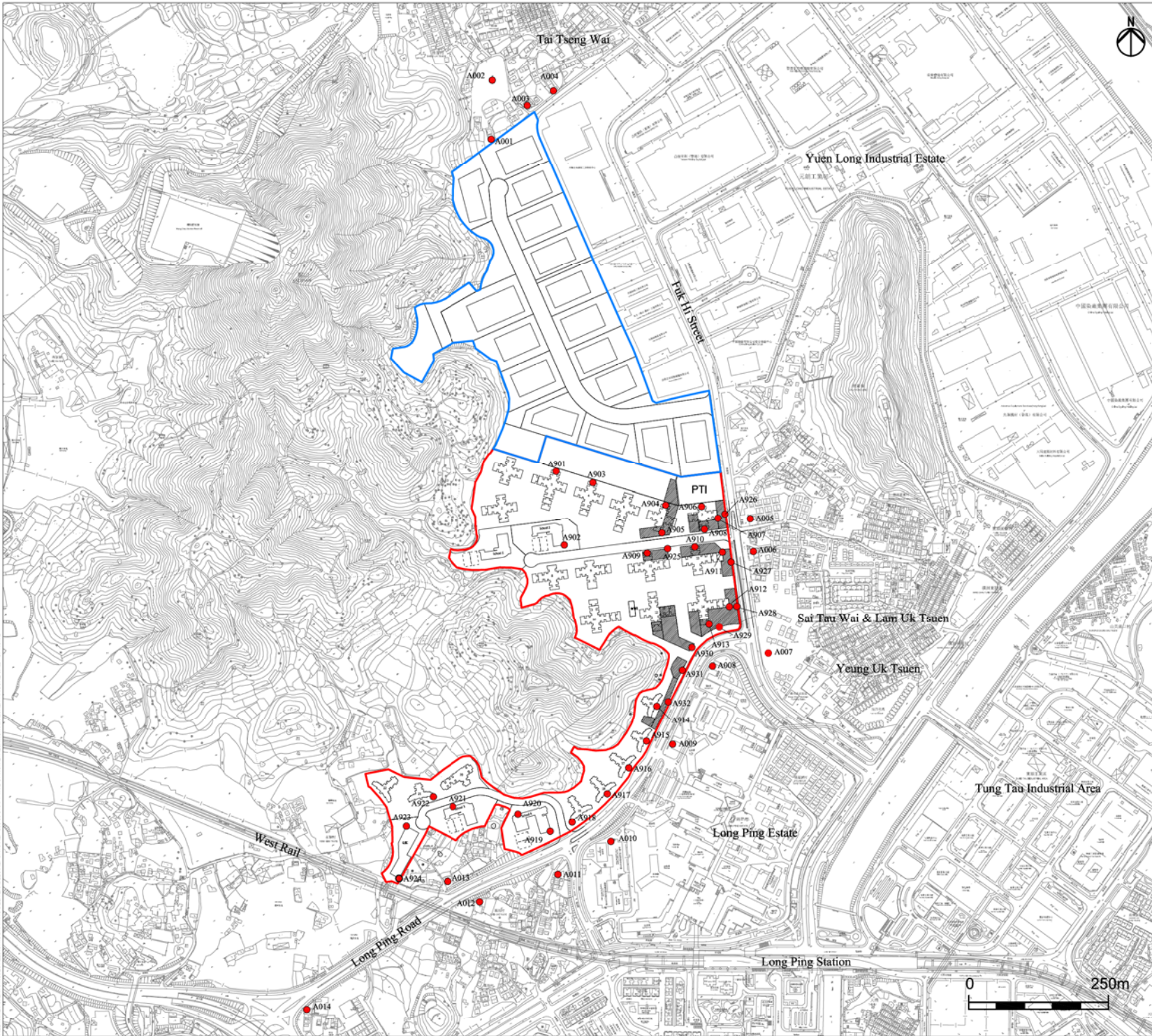
Project title  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau





Drawing title  
Option 1- Locations of Representative Air Sensitive Receivers

Drawing no.	Figure 5.1.1			Rev.	A
Drawn	GL	Date	05/13	Checked	IL
Scale	AS SHOWN		Status	PRELIMINARY	



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- Legend**
-  Study Area
  -  Public Housing Site
  -  Yuen Long Industrial Estate Extension
  -  Representative Air Sensitive Receiver

Rev	Description	By	Date
A	FIRST ISSUE	GL	05/13

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

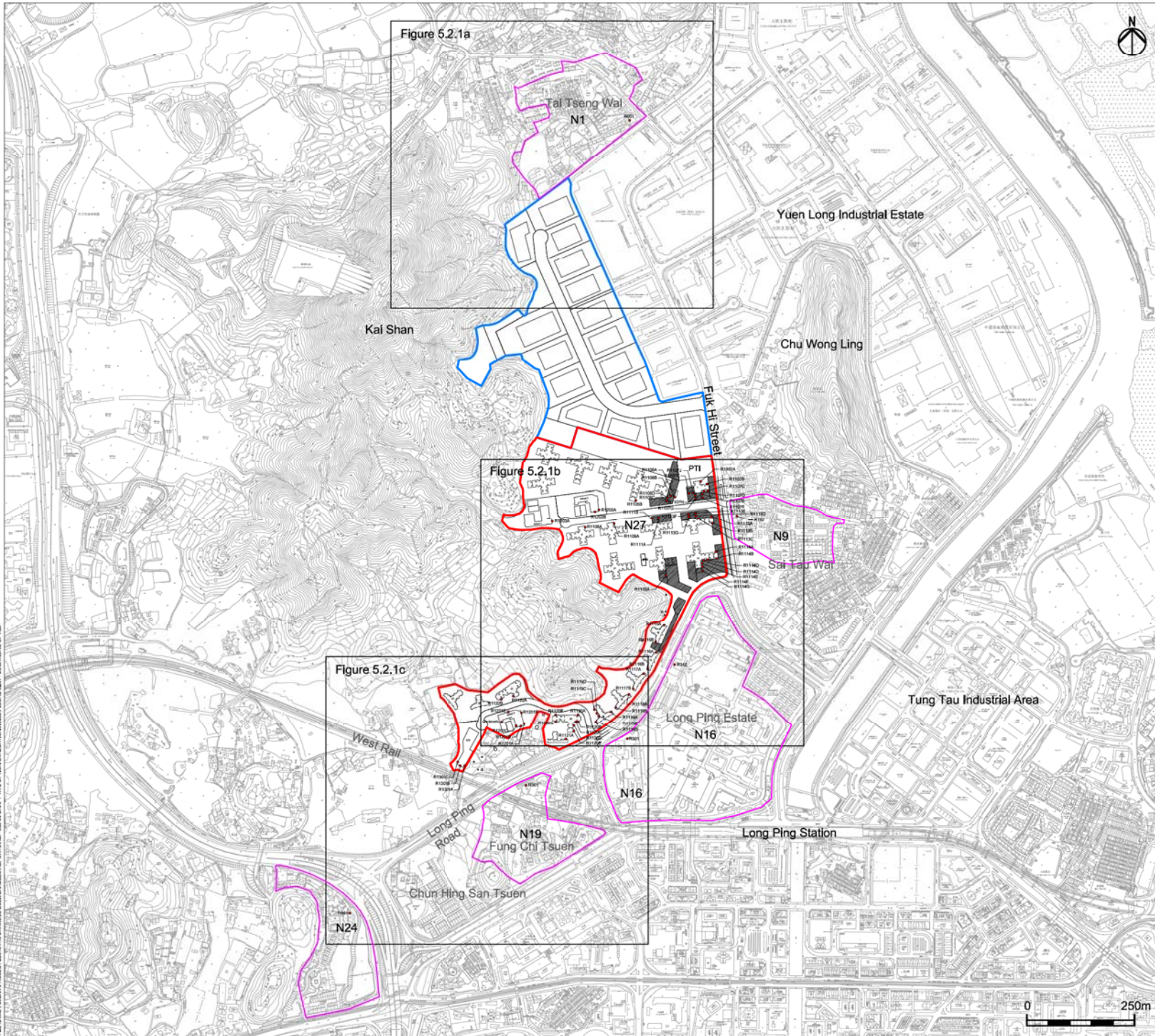
Drawing title  
Option 2 - Locations of Representative Air Sensitive Receivers

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Drawn	GL	Date	05/13	Checked	IL
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USER: HKH02AC145 - DWG: 20 MAY 2013 - 2020  
 FILE NAME: C:\CITYPROJ\2013\05\13\DRAWING\DELIVERABLES\REPORTS\REP-00040 DRAFT TRNS OPTION EVALUATION\REP-FIGURE 5.2.1 - LOCATIONS OF REP

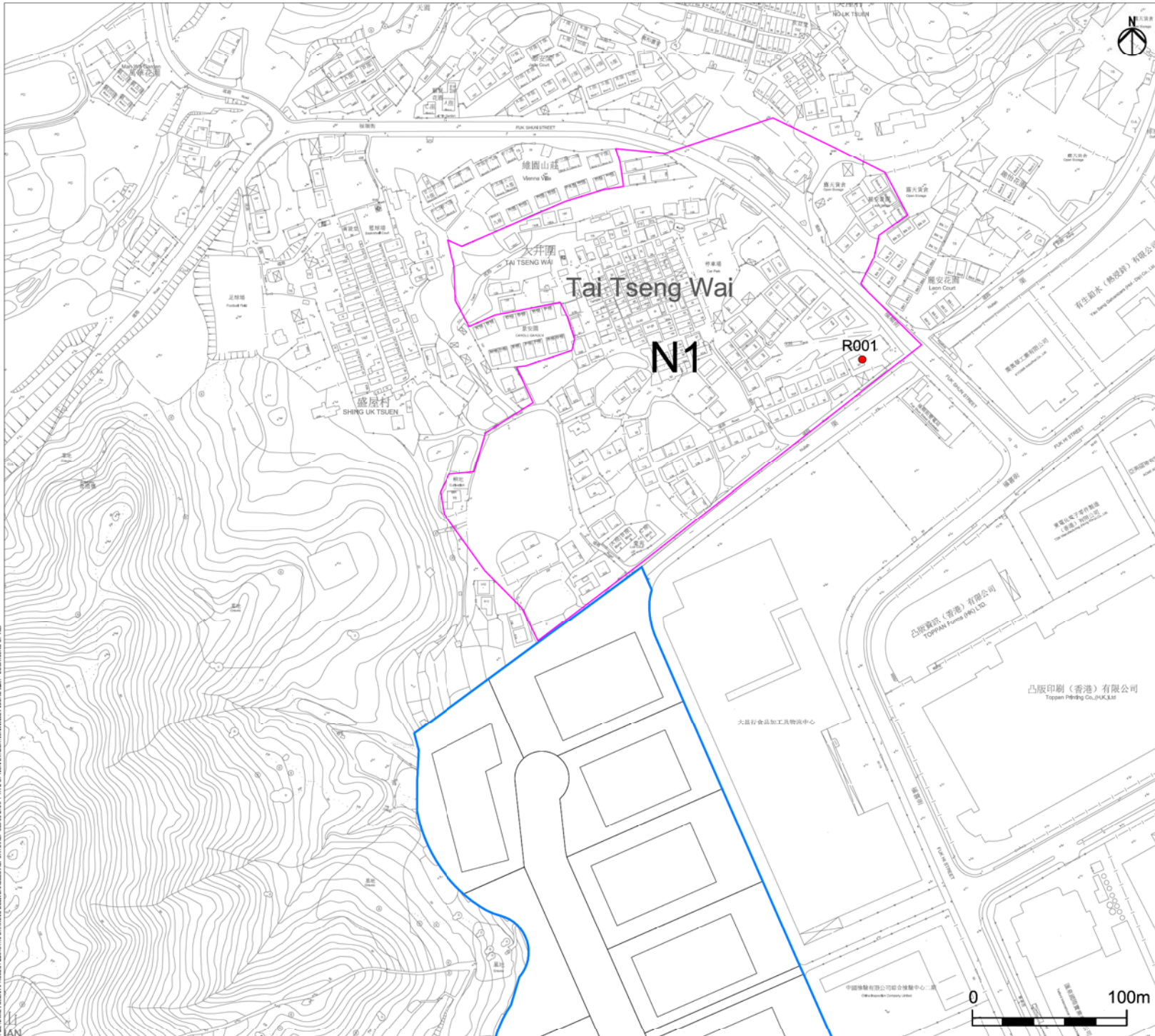


- Legend**
- Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Noise Assessment Point
  - Noise Sensitive Receiver

A	FIRST ISSUE	GL	05/13
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 (Option 1 - Road Traffic Noise)			
Drawing no.			Rev.
Figure 5.2.1			A
Drawn	Date	Checked	Approved
GL	05/13	IL	ST
Scale		Status	
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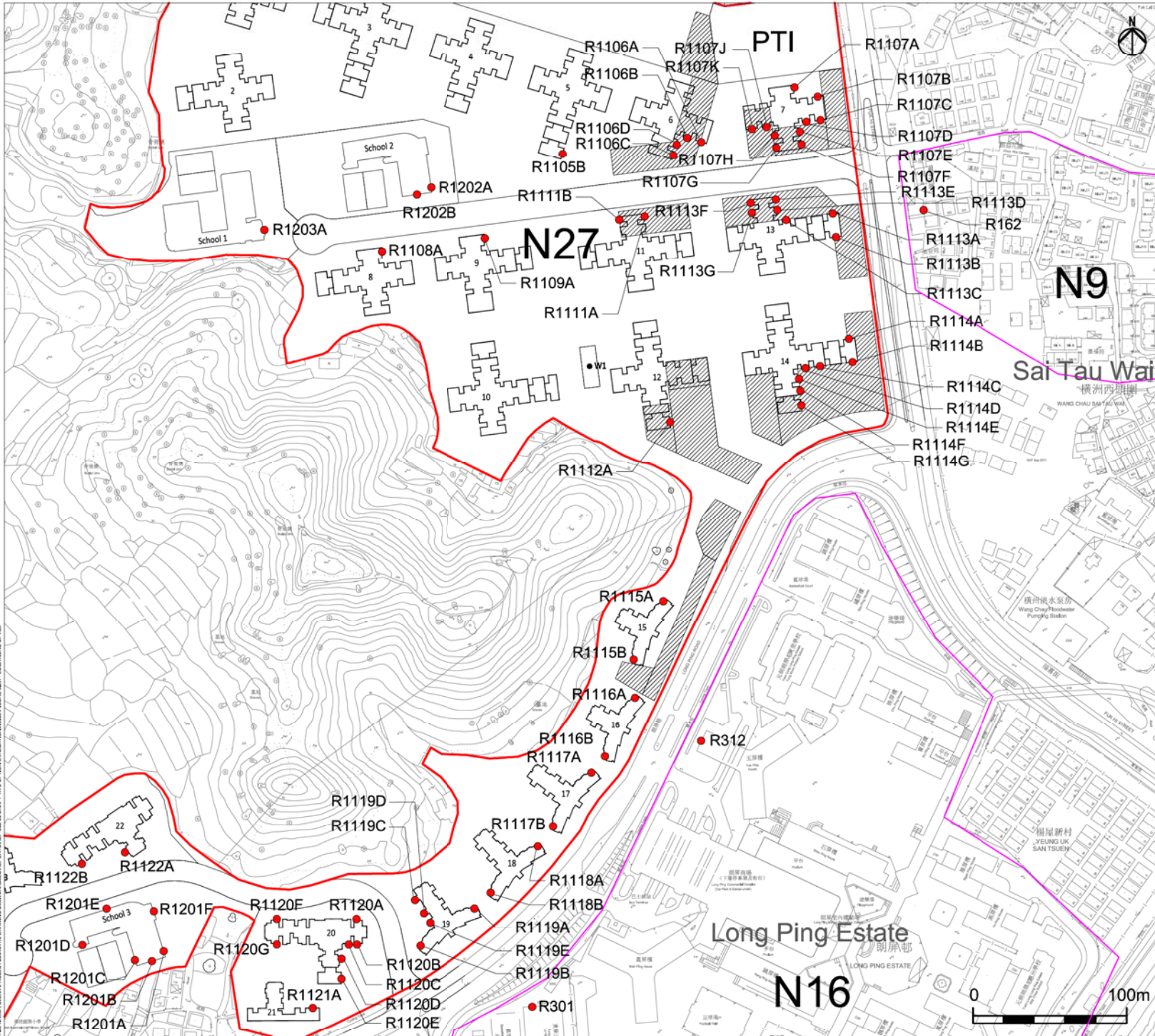


**Legend**

- Public Housing Site
- Yuen Long Industrial Estate Extension
- Noise Assessment Point
- Noise Sensitive Receiver

A	FIRST ISSUE	GL	05/13
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 (Option 1 - Road Traffic Noise)			
Drawing no.	Figure 5.2.1a	Rev.	A
Drawn	Date	Checked	Approved
GL	05/13	IL	ST
Scale	AS SHOWN	Status	PRELIMINARY
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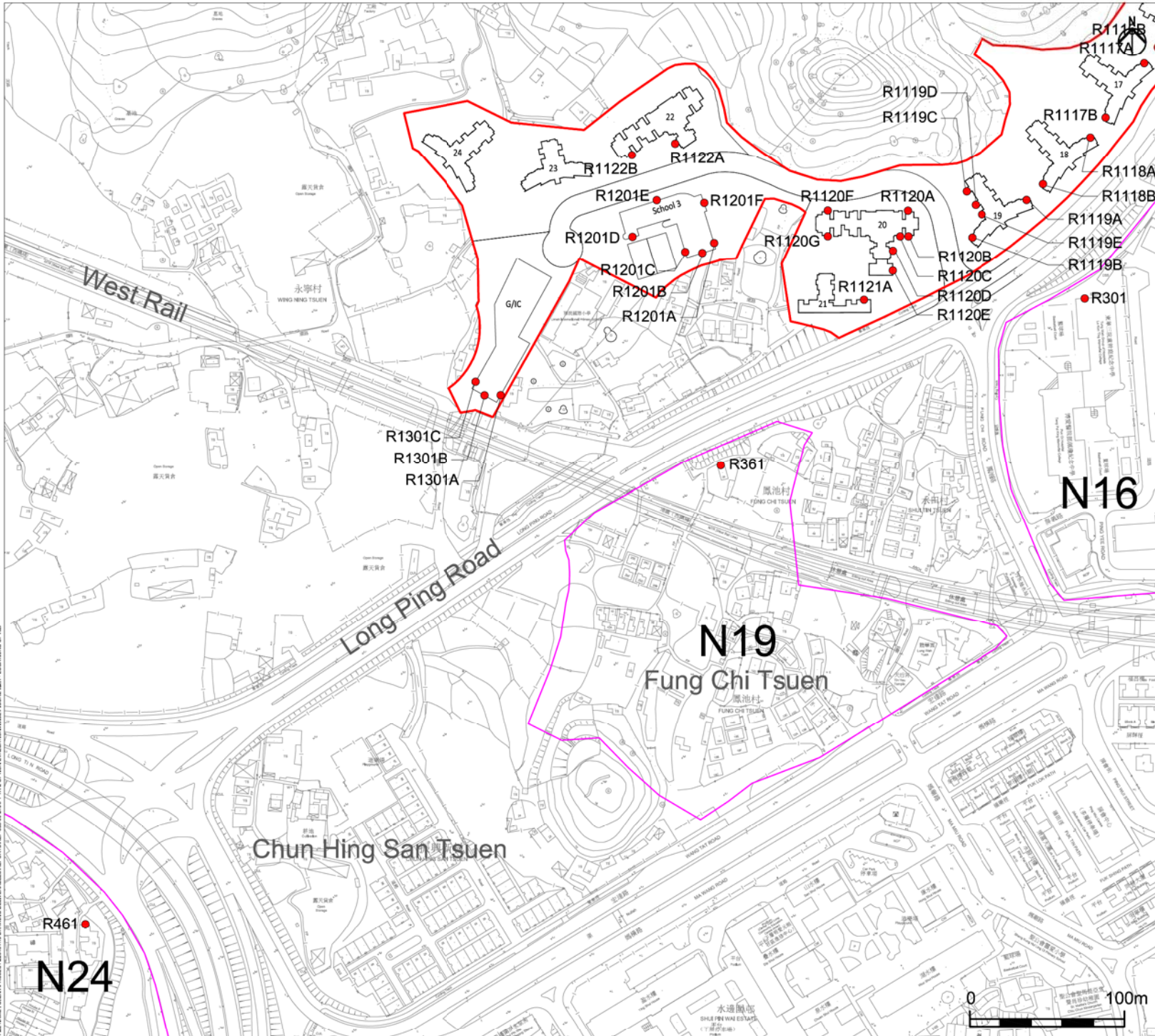


- Legend**
- Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Noise Assessment Point
  - Noise Sensitive Receiver

A	FIRST ISSUE	GL	05/13	
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				
Locations of Representative Noise Assessment Points (Option 1 - Road Traffic Noise)				
Drawing no.	Figure 5.2.1b	Rev.		A
Drawn	Date	Checked	Approved	ST
Scale	AS SHOWN	Status	PRELIMINARY	
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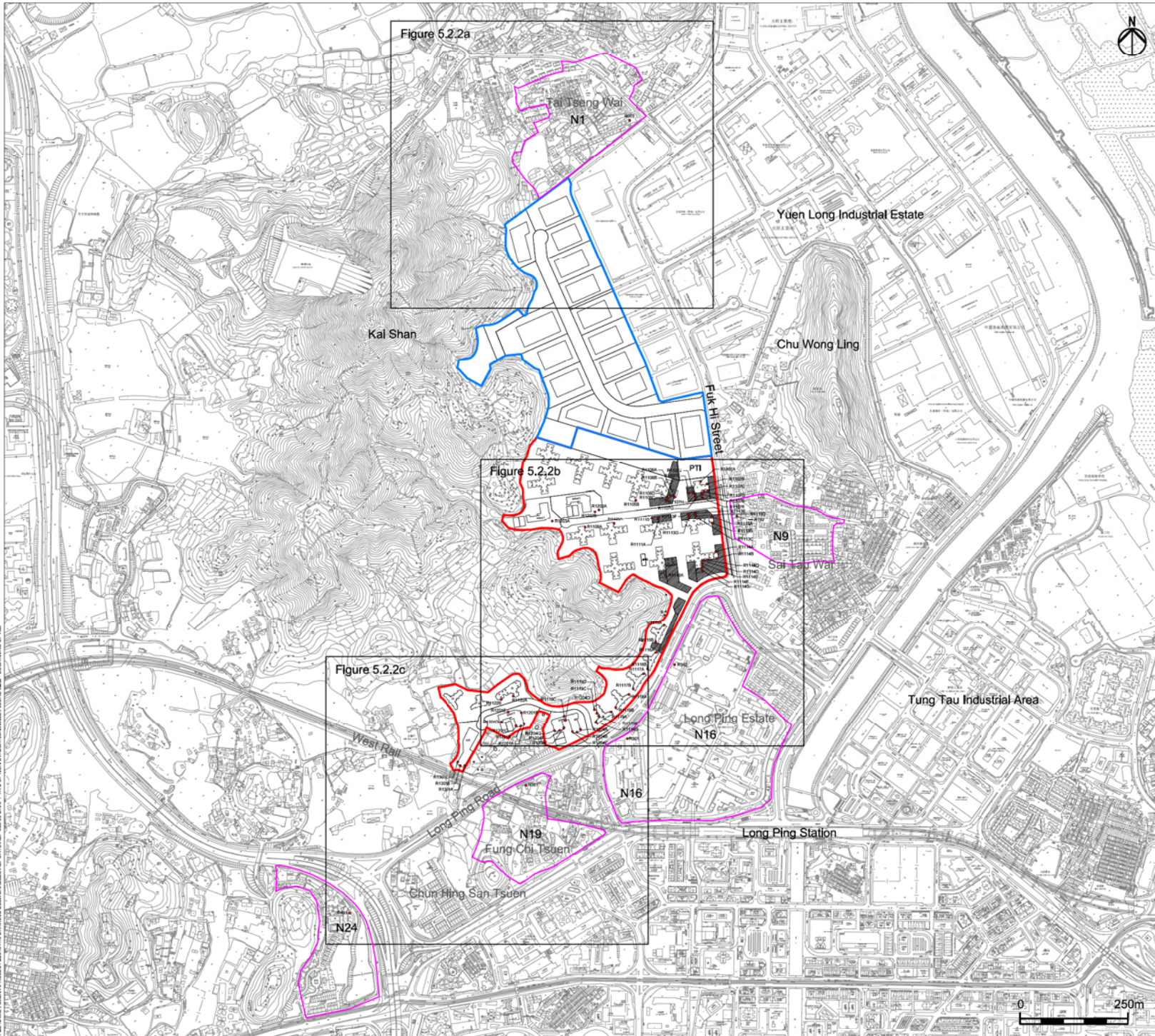
- Legend
- Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Noise Assessment Point
  - Noise Sensitive Receiver

A	FIRST ISSUE	GL	05/13	
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 (Option 1 - Road Traffic Noise)				
Drawing no.	Figure 5.2.1c	Rev.	A	
Drawn	Date	05/13	Checked	IL
Scale	AS SHOWN	Status	PRELIMINARY	
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<span style="font-weight: bold; font-size: 12px;">HONG KONG HOUSING AUTHORITY</span>				

USER: HK02AC145.DWG, 20 MAY 2013, 10:00 AM  
 FILE NAME: C:\OS2\PROJECTS\2013\113 DRAWING\DELIVERABLES\REPORTS\REP00000.DWG TNS OPTION EVALUATION\NOISE/FIGURE 5.2.1 - LOCATIONS OF REP



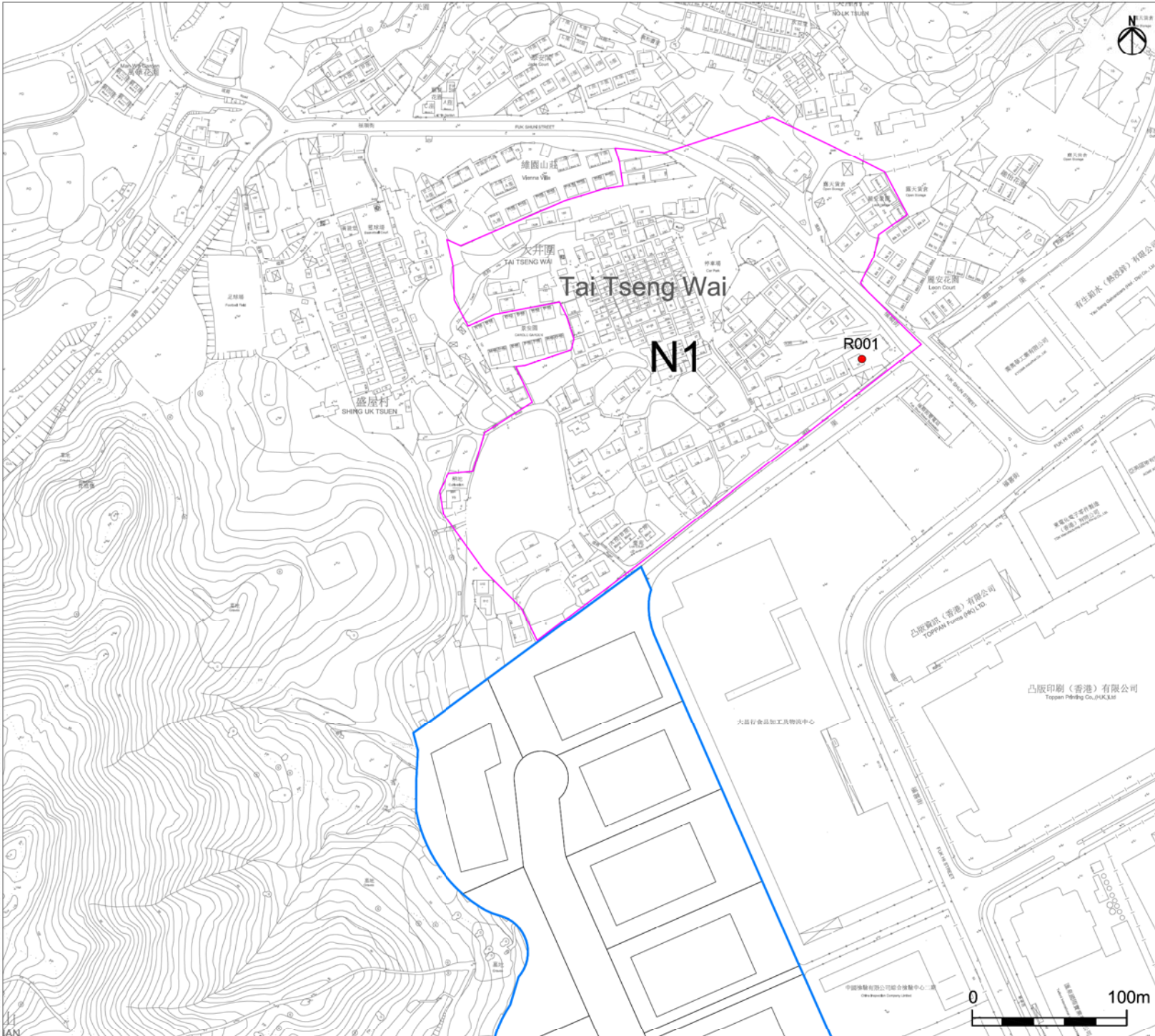
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 FILE NAME: C:\COPY\PROJECT\2013\11\13 DRAWING DELIVERABLES\REPORTS\REP-00040 DRAFT TRNS OPTION EVAL\TUNNAGE\Figure 5.2.2 - LOCATIONS OF REP



**Legend**

- Public Housing Site
- Yuen Long Industrial Estate Extension
- Noise Assessment Point
- Noise Sensitive Receiver

A	FIRST ISSUE	GL	05/13	
Rev	Description	By	Date	
Consultant				
<h1>ARUP</h1>				
Project title				
Agreement No. CB20120293				
Planning and Engineering Study for the Public Estate Site and Yuen Long Industrial Estate Extension at Wang Chau				
Drawing title				
Locations of Representative Noise Assessment Points (Option 2 - Road Traffic Noise)				
Drawing no.				
Figure 5.2.2				Rev. A
Drawn	Date	Checked	Approved	
GL	05/13	IL	ST	
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- Legend**
- Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Noise Assessment Point
  - Noise Sensitive Receiver

A	FIRST ISSUE	GL	05/13
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

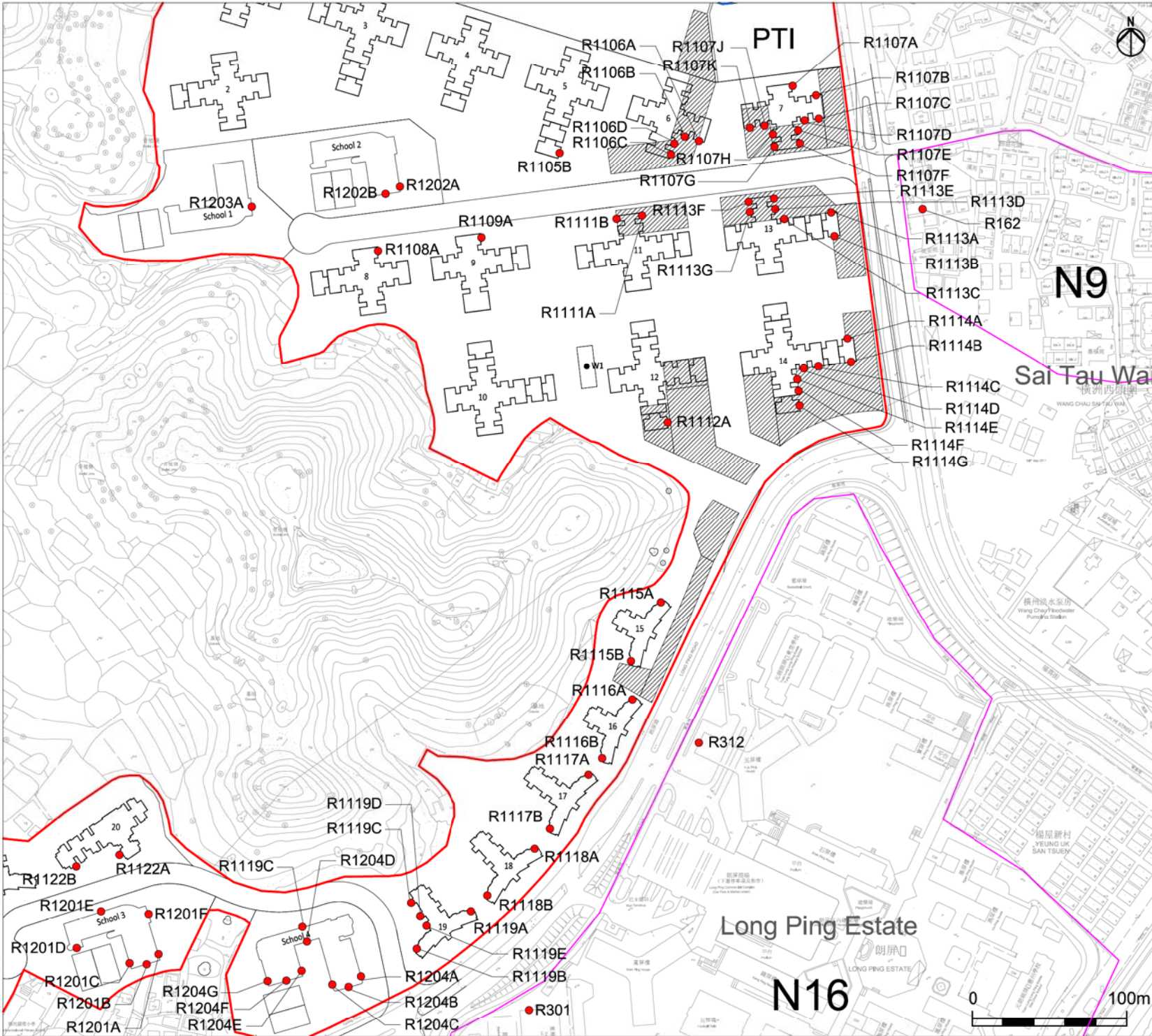
Drawing title  
**Locations of Representative Noise Assessment Points (Option 2 - Road Traffic Noise)**

Drawing no.		Figure 5.2.2a		Rev.	A
Drawn	GL	Date	05/13	Checked	IL
Scale	AS SHOWN		Status	PRELIMINARY	

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**Legend**

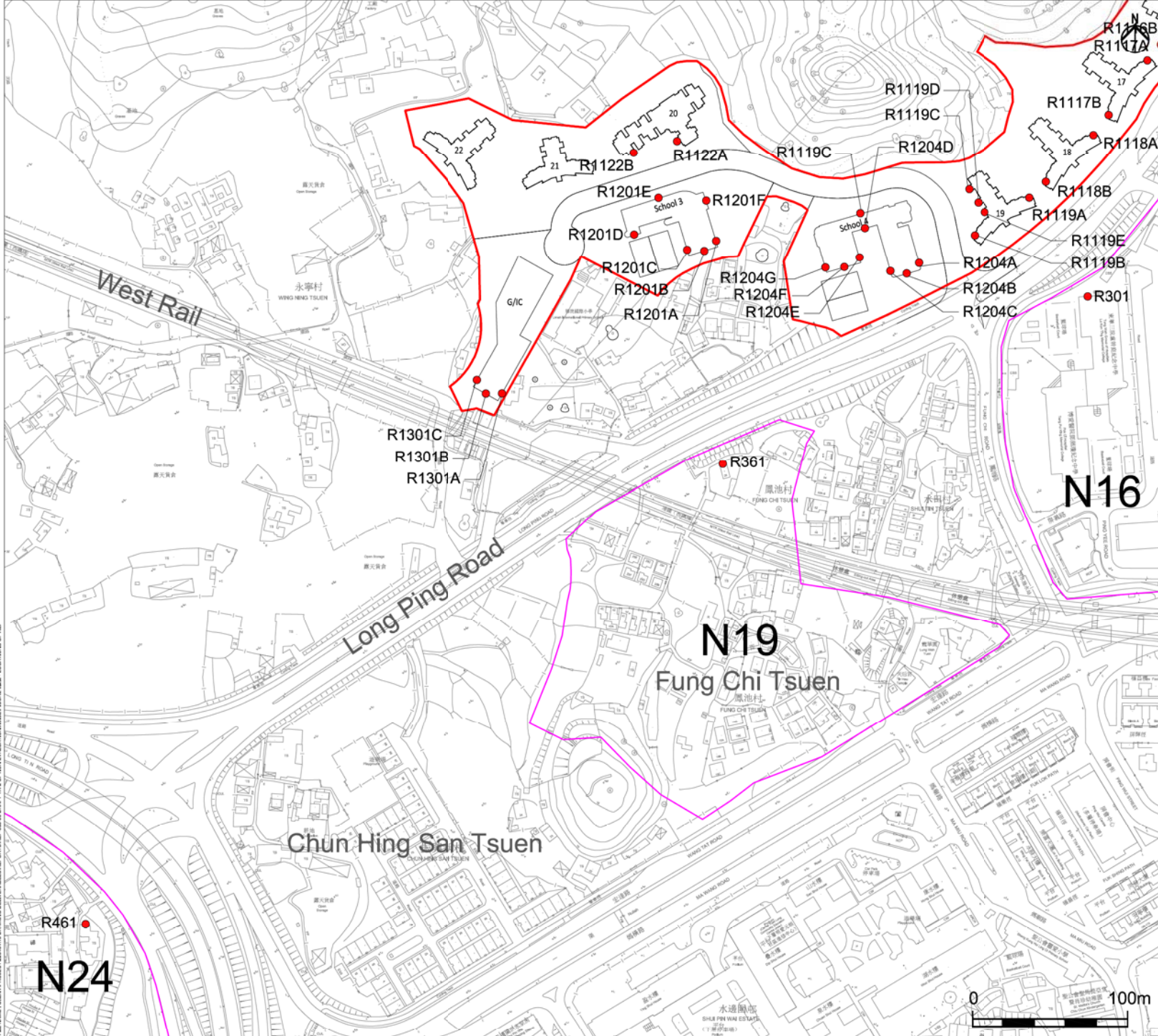
- Public Housing Site
- Yuen Long Industrial Estate Extension
- Noise Assessment Point
- Noise Sensitive Receiver

	A	GL	05/13
Rev	FIRST ISSUE	By	Date
Consultant	<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	Locations of Representative Noise Assessment Points (Option 2 - Road Traffic Noise)		

Drawing no.	Figure 5.2.2b	Rev.	A
Drawn	GL	Date	05/13
Checked	IL	Approved	ST
Scale	AS SHOWN      Status      PRELIMINARY		
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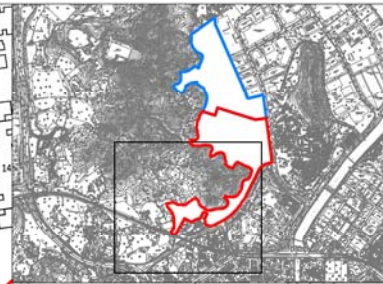
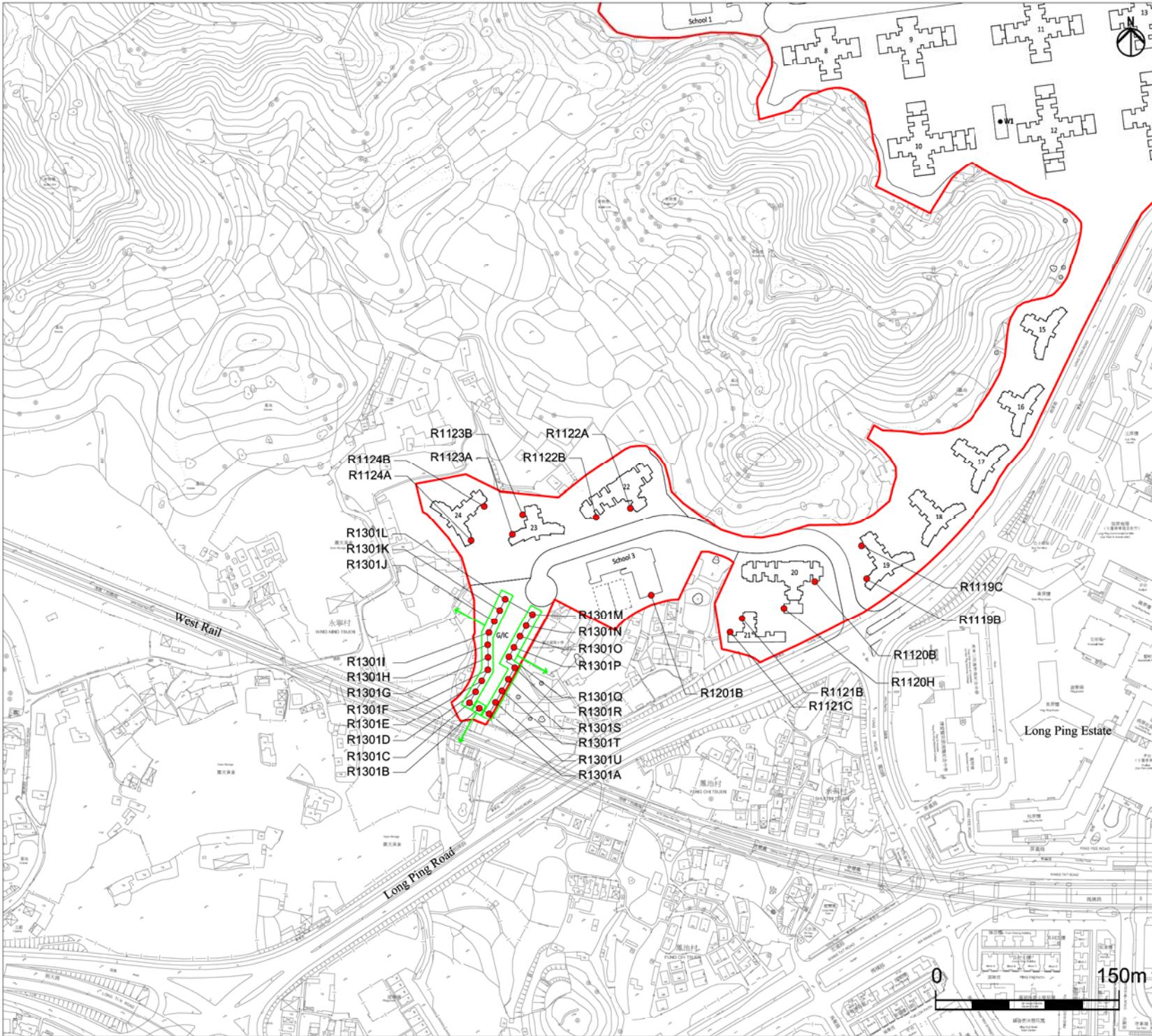
USER: \\PRODUCTION\TIME: 20 MAY 2013 - 10:26AM  
 FILE NAME: \\C:\WORK\PROJECT\20120293\DRAWING\20120293\PROJECT\20120293\FIGURE 5.2.2 - LOCATIONS OF RBP



- Legend
- Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Noise Assessment Point
  - Noise Sensitive Receiver

A	FIRST ISSUE	GL	05/13	
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 (Option 2 - Road Traffic Noise)				
Drawing no.	Figure 5.2.2c	Rev.	A	
Drawn	Date	Checked	Approved	
Scale	AS SHOWN	Status	PRELIMINARY	
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 FILE NAME: C:\COPY PROJECT\2013\11\DRAWING DELIVERABLES\REPORTS\REP-08-00-DRAW-TN2-OPTION EVALUATION\NOISE\Figure 5.2.2 - LOCATIONS OF REP



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

Rev	Description	By	Date
A	FIRST ISSUE	GL	05/13

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

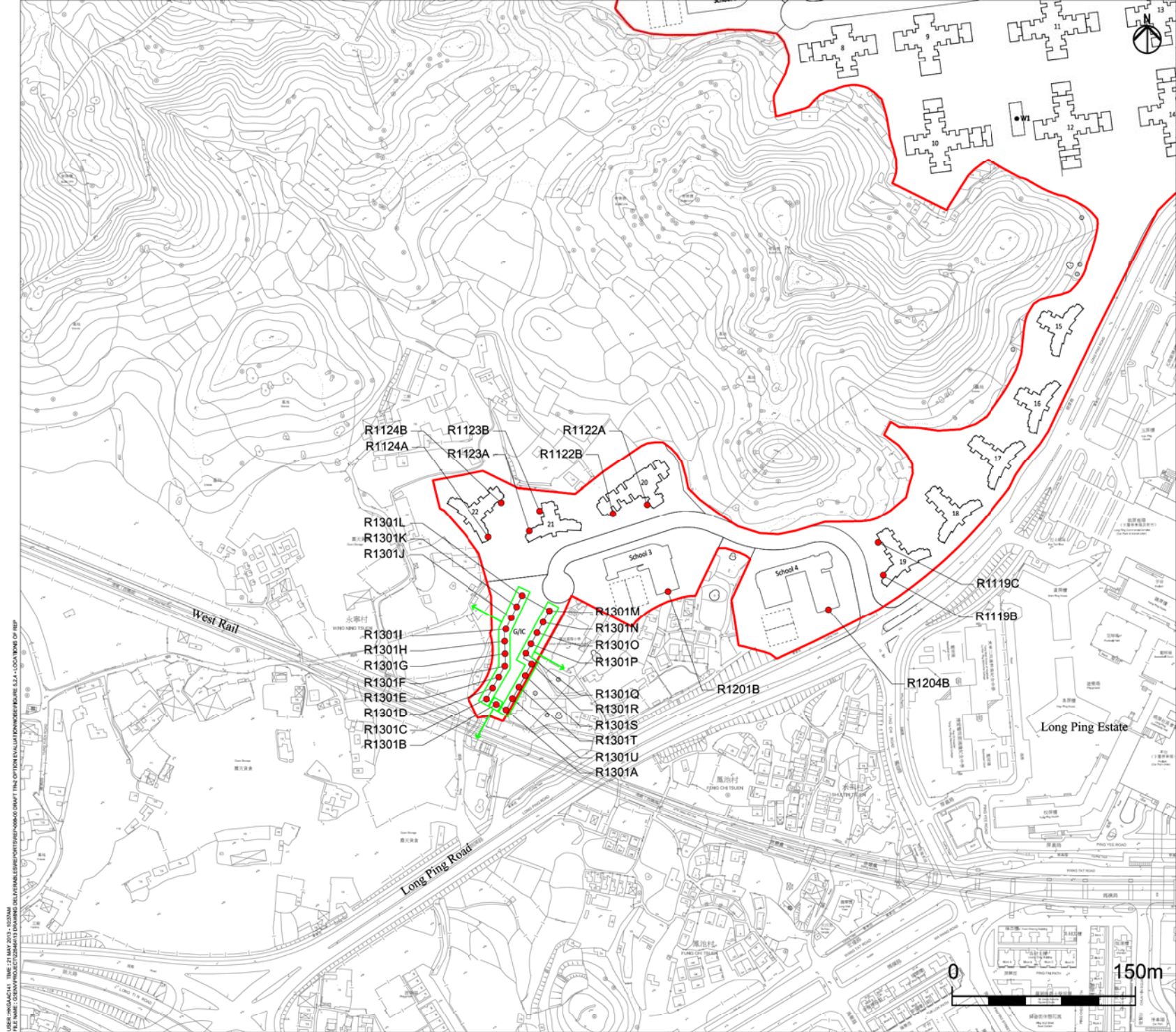
Drawing title  
 Locations of Representative Noise Assessment Points (Option 1 - Railway Noise)

Drawing no.	Figure 5.2.3			Rev.	A
Drawn	GL	Date	05/13	Checked	IL
Scale	AS SHOWN		Status	PRELIMINARY	



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

A	FIRST ISSUE	GL	05/13
Rev	Description	By	Date
Consultant			

**ARUP**

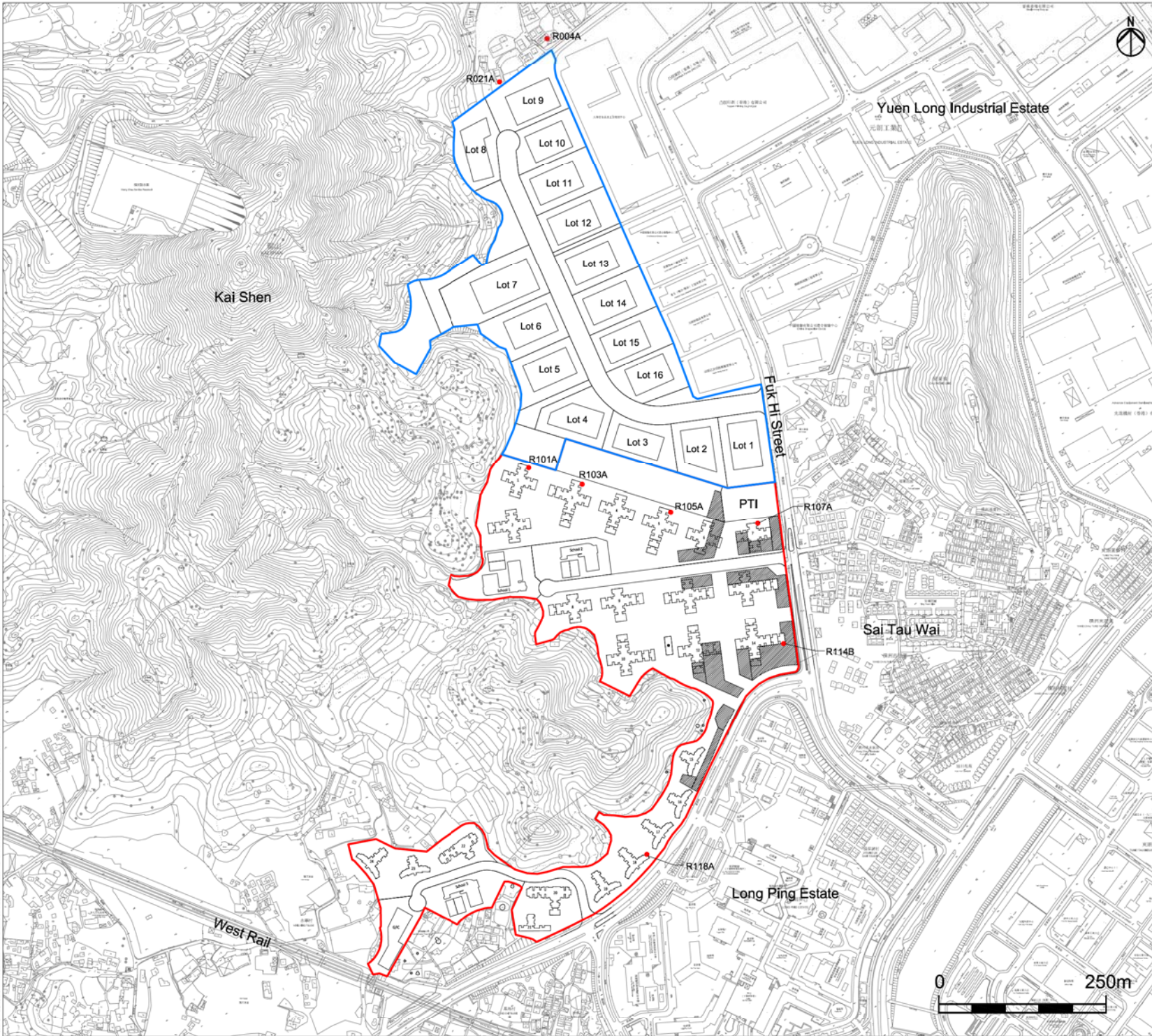
Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Locations of Representative Noise Assessment Points (Option 2 - Railway Noise)

Drawing no.	Figure 5.2.4			Rev.	A
Drawn	GL	Date	05/13	Checked	IL
Scale	AS SHOWN		Status	PRELIMINARY	
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- Legend**
- Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Assessment Point

A	FIRST ISSUE	GL	05/13
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

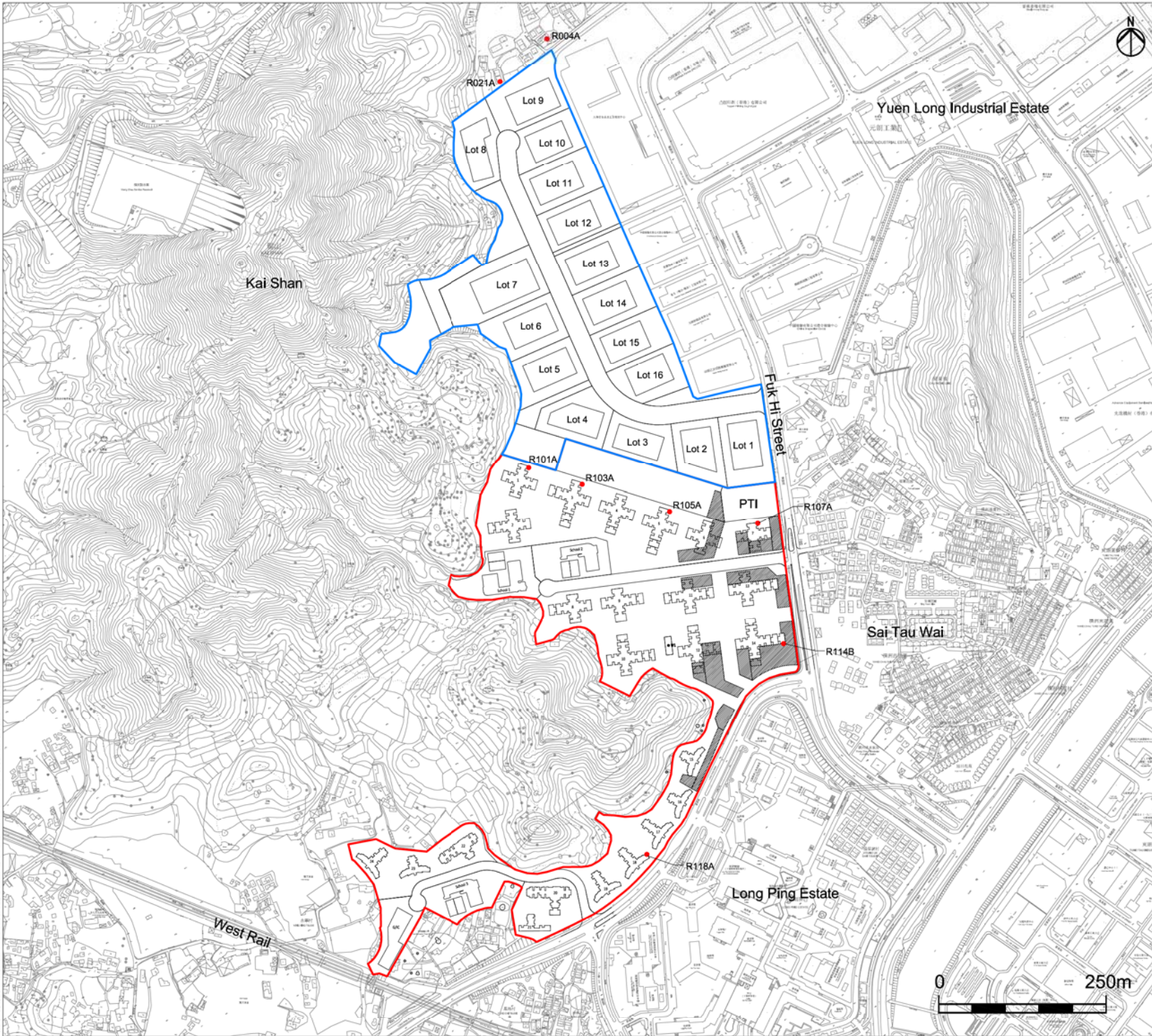
Drawing title  
Locations of Representative Noise Assessment Points (Option 1 - Fixed Noise)

Drawing no.	Figure 5.2.5			Rev.	A
Drawn	GL	Date	05/13	Checked	IL
Scale	AS SHOWN		Status	PRELIMINARY	



USER: HKCAD108 TIME: 20 MAY 2013 10:26AM  
 FILE NAME: C:\CONTRACT\PROJECT\DRAWING\DELIVERABLES\REPORTS\REPORT\000001\DMPT\THIN OPTION EVALUATION\Figure 5.2.5 - LOCATIONS OF RSP





**Legend**

- Public Housing Site
- Yuen Long Industrial Estate Extension
- Assessment Point

A	FIRST ISSUE	GL	05/13
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

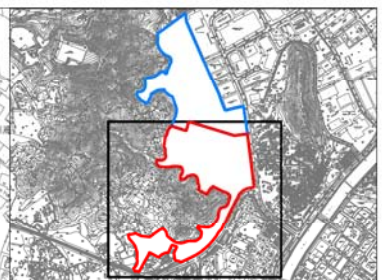
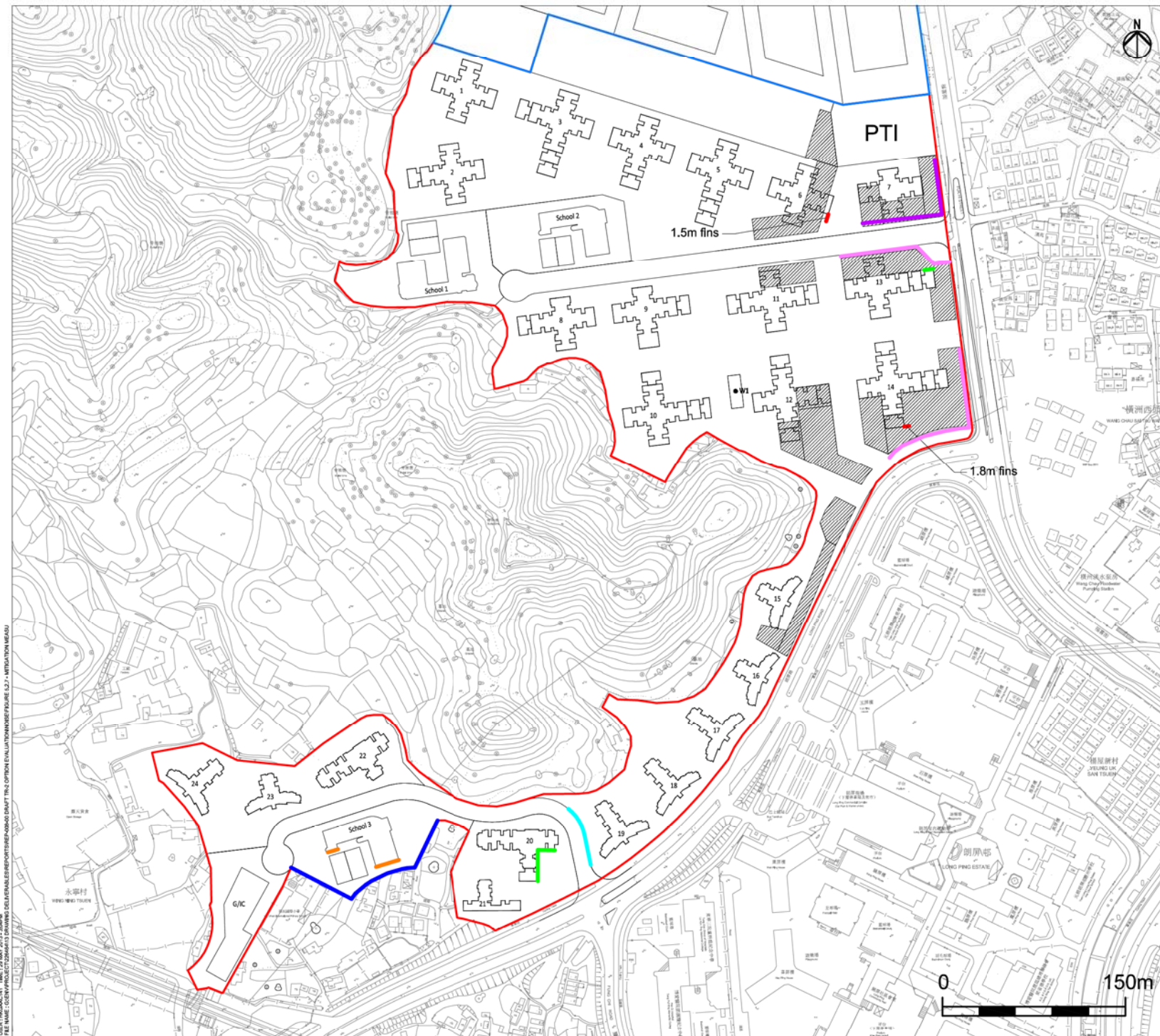
Drawing title  
Locations of Representative Noise Assessment Points (Option 2 - Fixed Noise)

Drawing no.	Figure 5.2.6			Rev.	A
Drawn	GL	Date	05/13	Checked	IL
Scale	AS SHOWN		Status	PRELIMINARY	

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 FILE NAME: C:\CONTRACT\PROJECT\DRAWING\DELIVERABLES\REPORTS\REPORTS\DMPT\THIN OPTION EVALUATION\Figure 5.2.6 - LOCATIONS OF RSP



- Legend**
- Public Housing Site
  - Yuen Long Industrial Estate Extension
  - 2m Barrier
  - 3m Boundary Wall
  - 5.5m Barrier + 2.2m Cantilever
  - 5m Barrier + 3m Cantilever
  - Acoustic Insulation
  - Acoustic Window
  - Fins

Rev	Description	By	Date
A	FIRST ISSUE	GL	05/13

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

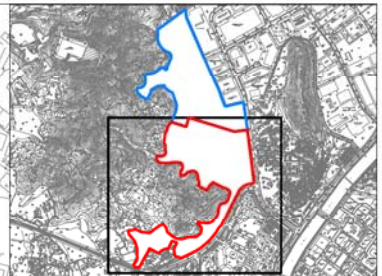
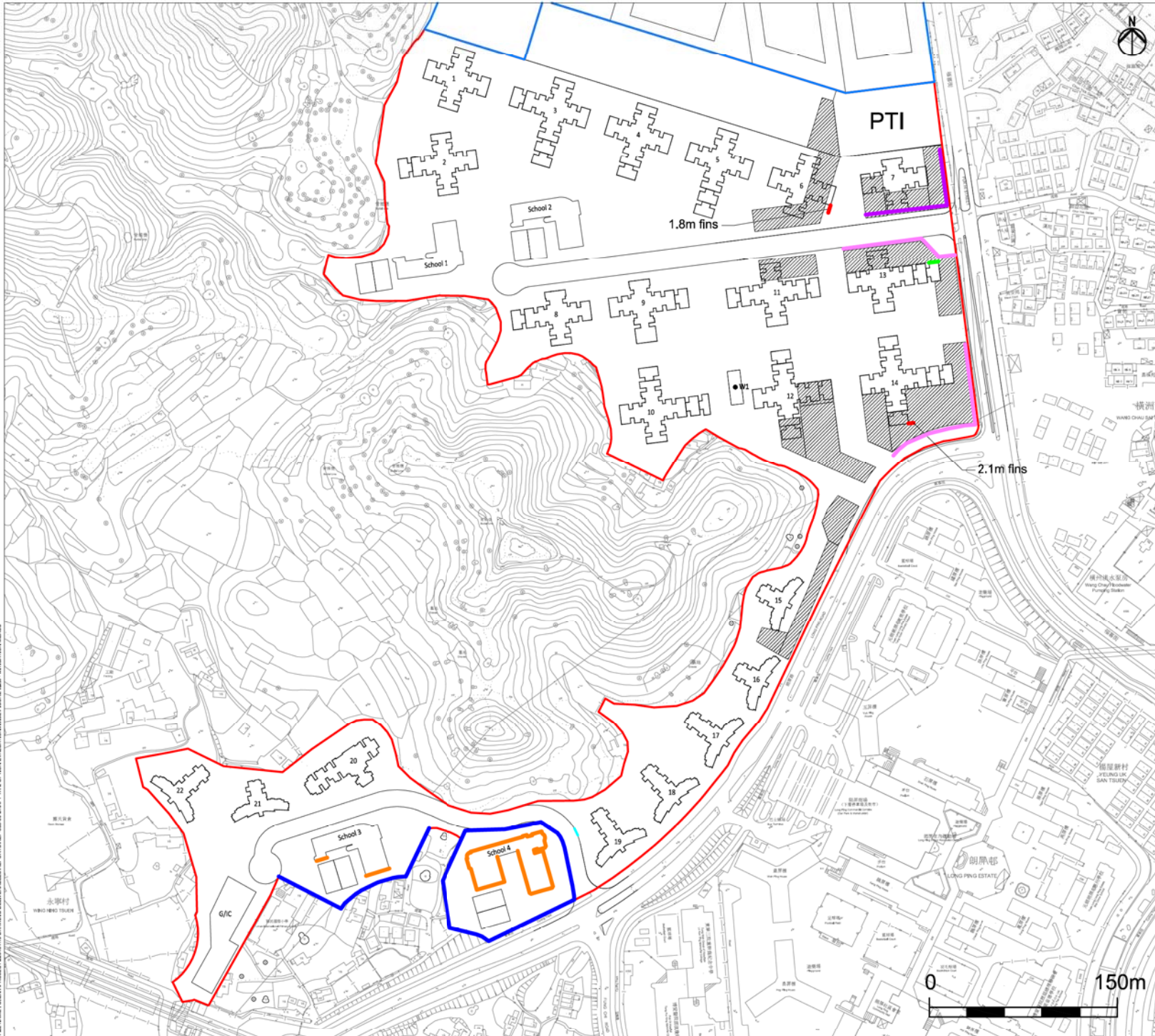
Drawing title  
**Mitigation Measures**  
 (Option 1 - Road Traffic Noise)

Drawing no.	Figure 5.2.7			Rev.	A
Drawn	GL	Date	05/13	Checked	IL
Scale	AS SHOWN		Status	PRELIMINARY	
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USER: HKH0406146 DATE: 11 MAY 2013 10:19 AM  
 FILE NAME: C:\CONTRACTS\2013\13-05\PROJECTS\2013\13-05\DRAWING\DELIVERABLES\REPORTS\REPORT-0406146.DWG TNS OPTION EVALUATION\FIGURE 5.2.8 - MITIGATION MEASURES



- Legend**
- Public Housing Site
  - Yuen Long Industrial Estate Extension
  - 2m Barrier
  - 3m Boundary Wall
  - 5.5m Barrier + 2.2m Cantilever
  - 5m Barrier + 3m Cantilever
  - Acoustic Insulation
  - Acoustic Window
  - Fins

A	FIRST ISSUE	GL	05/13
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  
**Mitigation Measures (Option 2 - Road Traffic Noise)**

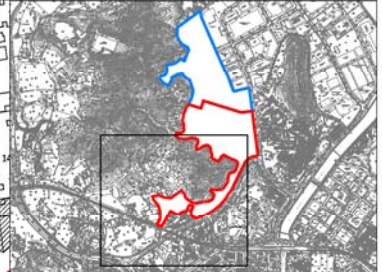
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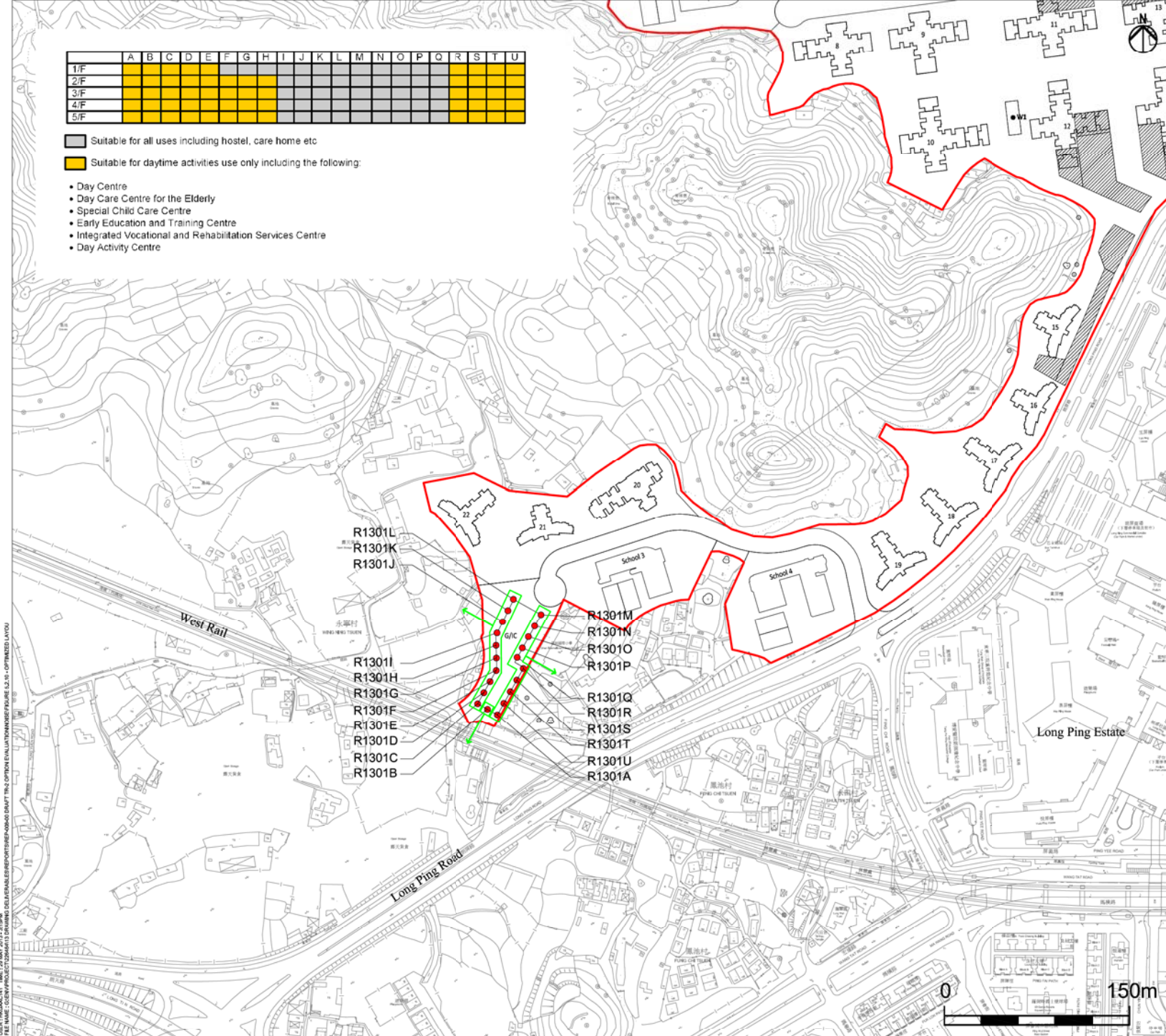


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1/F																					
2/F																					
3/F																					
4/F																					
5/F																					

- Suitable for all uses including hostel, care home etc
- Suitable for daytime activities use only including the following:
  - Day Centre
  - Day Care Centre for the Elderly
  - Special Child Care Centre
  - Early Education and Training Centre
  - Integrated Vocational and Rehabilitation Services Centre
  - Day Activity Centre

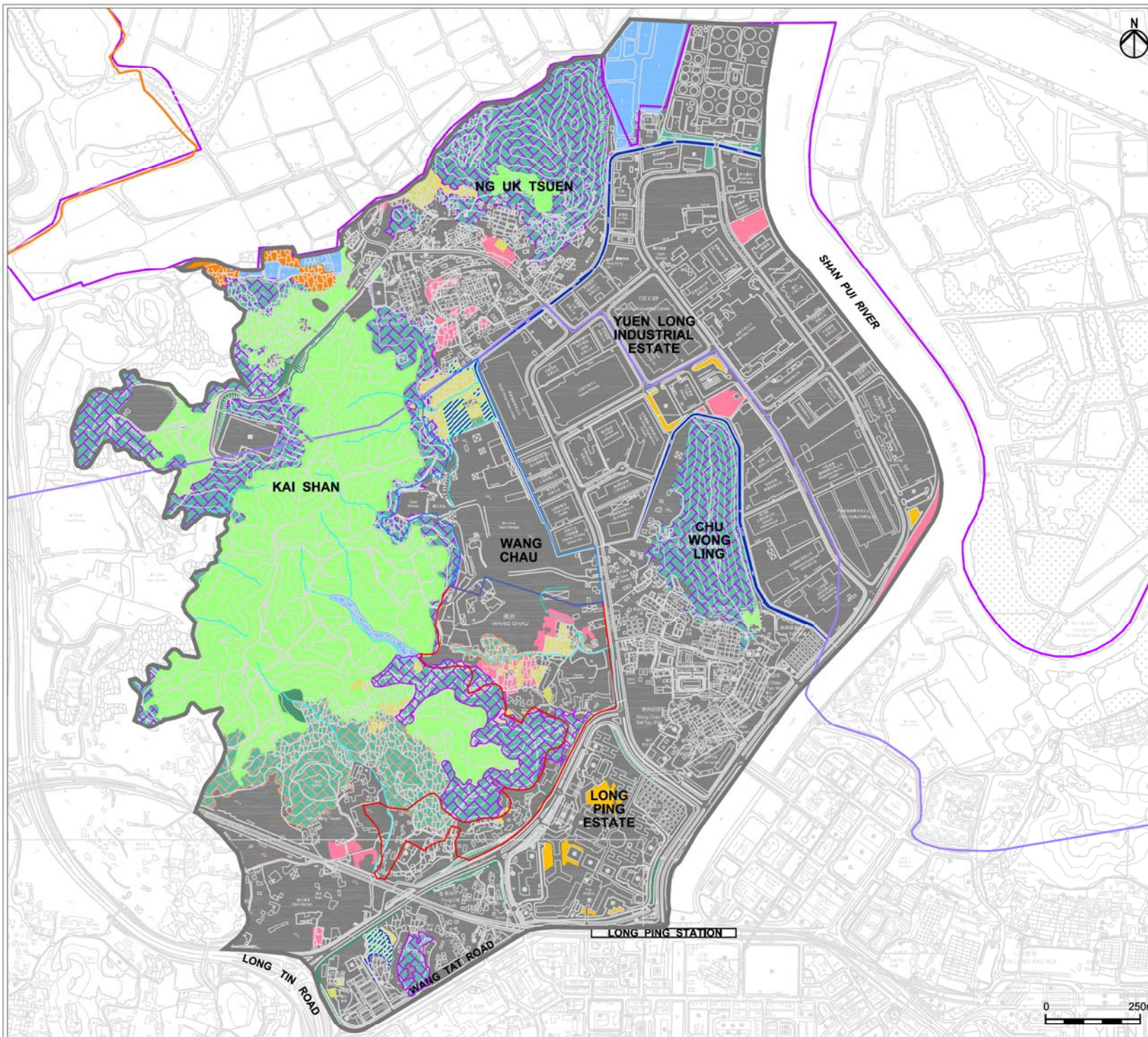


- Legend**
- Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Noise Assessment Point
  - Facade Facing



Rev	DESCRIPTION	By	Date
A	FIRST ISSUE	GL	05/13
Consultant			
<b>ARUP</b>			
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			
Constraints on the Layouts for ISWB (Option 2 - Railway Noise)			
Drawing no.			
Figure 5.2.10			Rev. A
Drawn	Date	Checked	Approved
GL	05/13	IL	ST
Scale		Status	
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 DRAWING DELIVERABLES REPORT REF: 040400 DRAFT TRNS OPTION EVALUATION REPORT FIGURE 5.2.10 - OPTION 2 - RAILWAY NOISE



- Legend**
- PH Site
  - YLIEE Site
  - Study Area
  - Wetland Conservation Area (WCA)
  - Wetland Buffer Area (WBA)
  - Hong Kong Wetland Park Special Area
  - Pond
  - Marsh
  - Minor Watercourse
  - Channelised Watercourse
  - Agricultural Land
  - Seasonally Wet Grassland
  - Grassland
  - Secondary Woodland
  - Orchard
  - Plantation
  - Landscaped Area
  - Wasteland
  - Developed Area

B	SECOND ISSUE	EW	12/12
A	FIRST ISSUE	EW	10/12
Rev	Description	By	Date

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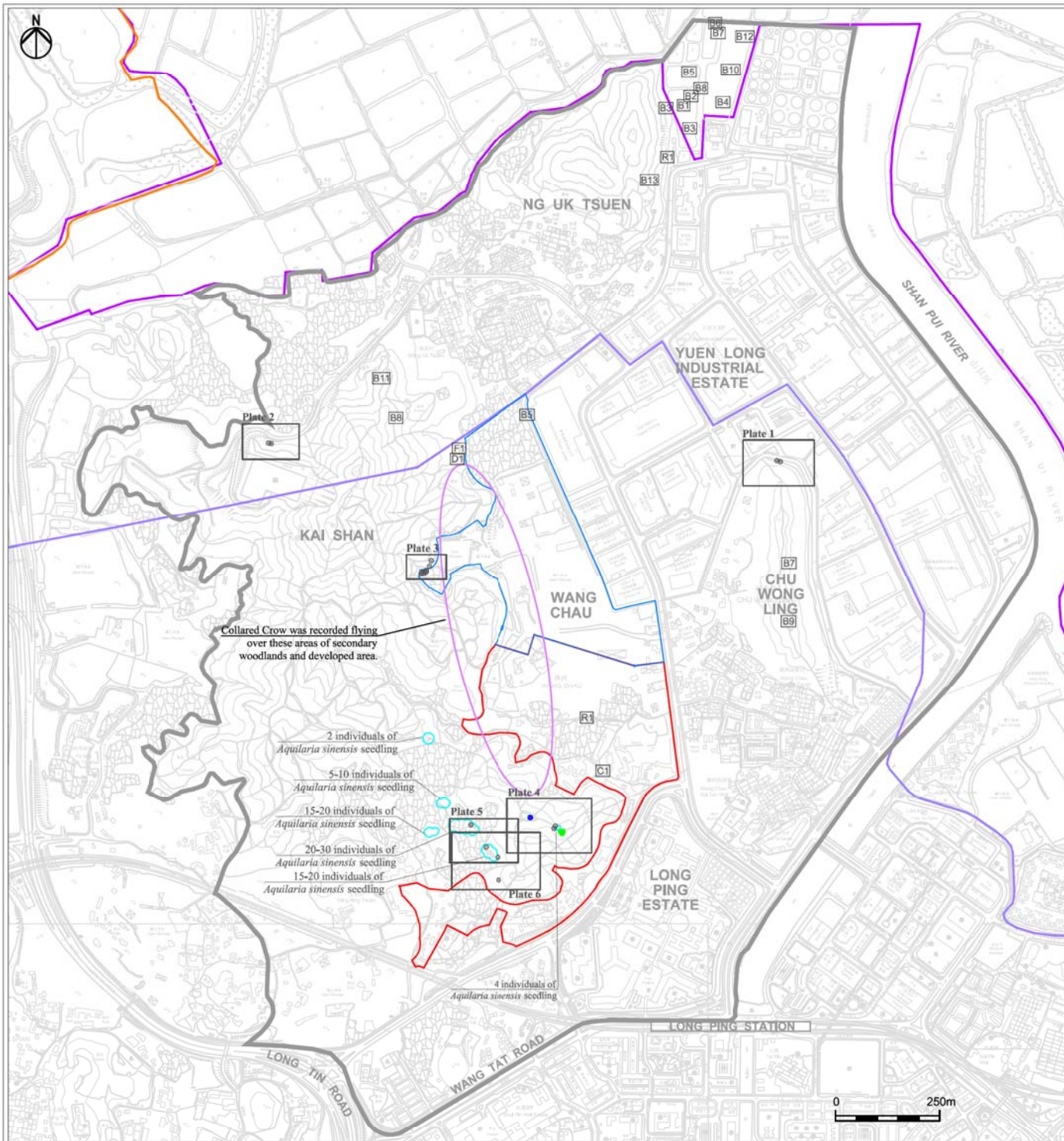
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Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
 Preliminary Habitat Map of the Study Area

Drawing no.	Figure 5.3.1			Rev.	B
Drawn	EW	Date	07/13	Checked	MRL
				Approved	ST
Scale	AS SHOWN		Status	PRELIMINARY	
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Collared Crow was recorded flying over these areas of secondary woodlands and developed area.

- 2 individuals of *Aquilaria sinensis* seedling
- 5-10 individuals of *Aquilaria sinensis* seedling
- 15-20 individuals of *Aquilaria sinensis* seedling
- 20-30 individuals of *Aquilaria sinensis* seedling
- 15-20 individuals of *Aquilaria sinensis* seedling
- 4 individuals of *Aquilaria sinensis* seedling



- Legend**
- PH Site
  - YLIEE Site
  - Study Area
  - Wetland Conservation Area (WCA)
  - Wetland Buffer Area (WBA)
  - Hong Kong Wetland Park Special Area

- Plant**
- Aquilaria sinensis* (tree)
  - Aquilaria sinensis* (seedling)
  - Camellia oleifera*
  - Rhododendron simsii*

- Bird**
- B1 Little Grebe
  - B2 Chinese Pond Heron
  - B3 Grey Heron
  - B4 Great Egret
  - B5 Little Egret
  - B6 Great Cormorant
  - B7 Black Kite
  - B8 White-throated Kingfisher
  - B9 Grey-chinned Minivet
  - B10 Collared Crow
  - B11 Golden-headed Cisticola
  - B12 Red-billed Starling
  - B13 Lesser Shortwing

- Reptile**
- R1 Common Rat Snake

- Dragonfly**
- D1 Scarlet Basker

- Stream Fauna**
- F1 Small Snakehead
  - C1 *Nanhaipotamon hongkongense*

B	SECOND ISSUE	EW	12/12
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Rev	Description	By	Date

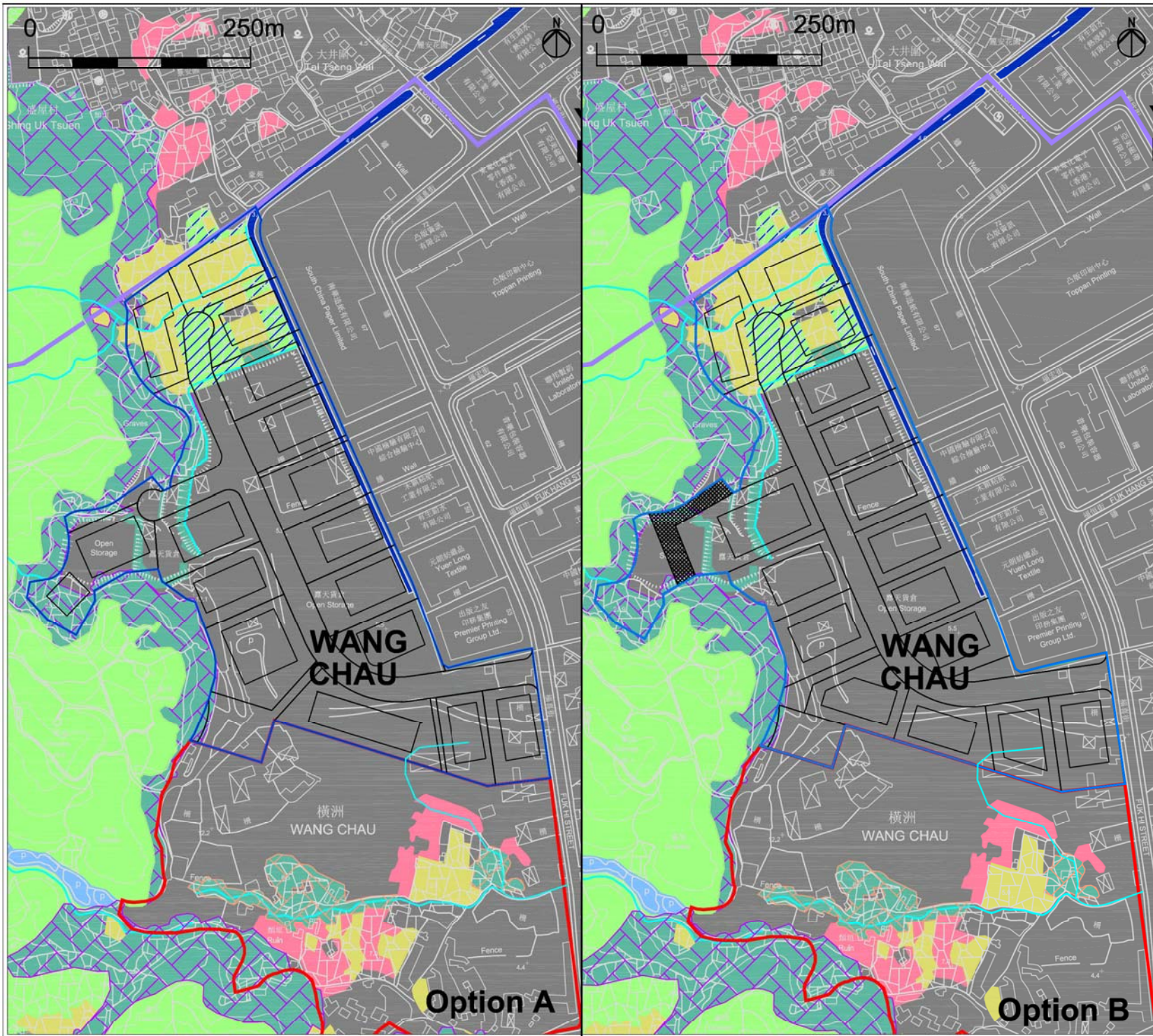
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Project title  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
Locations of Species of Conservation Significance Recorded within the Study Area

Drawing no.	Figure 5.3.2	Rev.	B
Drawn	EW	Date	07/13
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- Legend**
- PH Site
  - YLIEE Site
  - Study Area
  - Wetland Conservation Area (WCA)
  - Wetland Buffer Area (WBA)
  - Hong Kong Wetland Park Special Area
  - Pond
  - Minor Watercourse
  - Channelised Watercourse
  - Agricultural Land
  - Seasonally Wet Grassland
  - Grassland
  - Secondary Woodland
  - Orchard
  - Plantation
  - Wasteland
  - Developed Area

B	SECOND ISSUE	EW	12/12
A	FIRST ISSUE	EW	10/12
Rev	Description	By	Date

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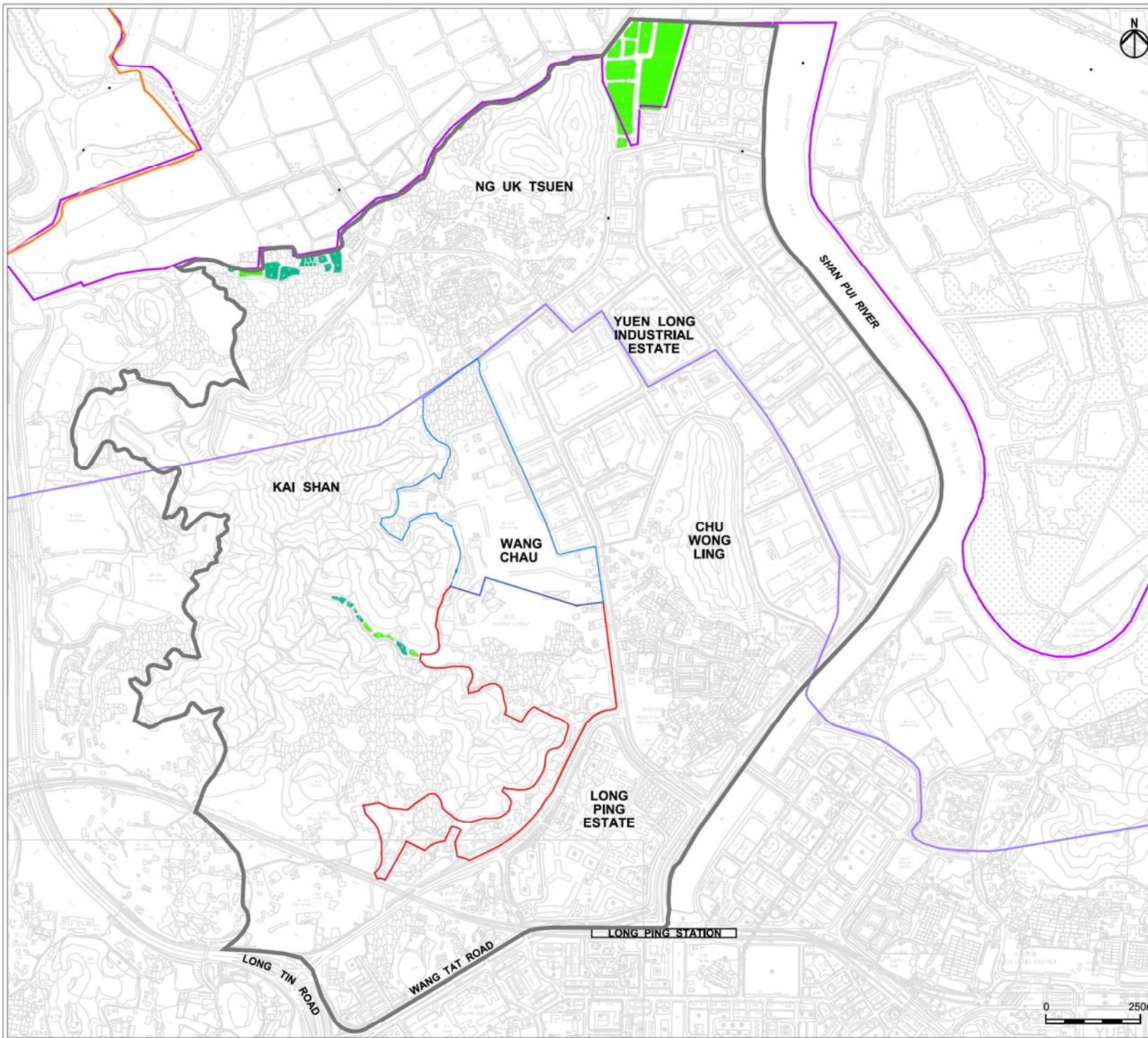
Project title  
Agreement No. CB20120293  
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
Preliminary habitat map of the YLIEE site for Options A and B

Drawing no.	Figure 5.3.3			Rev.	B
Drawn	EW	Date	05/13	Checked	MRL
				Approved	ST
Scale	AS SHOWN		Status	PRELIMINARY	
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- Legend**
- Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Study Area
  - Wetland Conservation Area (WCA)
  - Wetland Buffer Area (WBA)
  - Hong Kong Wetland Park Special Area
  - Inactive Fishpond
  - Abandoned Fishpond

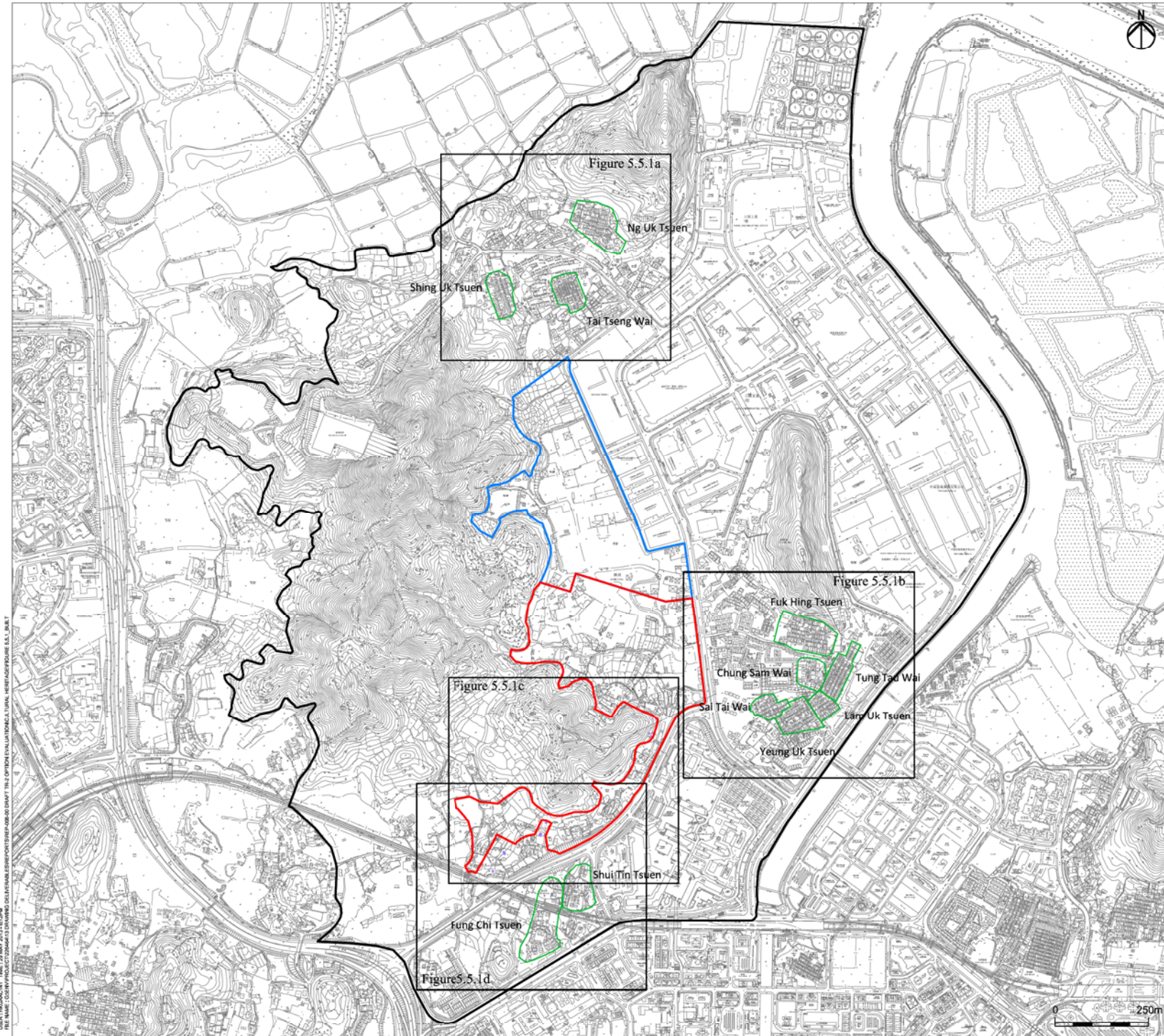
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Rev	Description	By	Date

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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  
**Preliminary Findings of the Fishpond Status within the Study Area**

Drawn no.	Figure 5.4.1		Rev.	A			
Drawn	EW	Date	05/13	Checked	MRL	Approved	ST
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- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Historical Villages

Rev	DESCRIPTION	By	Date
A	FIRST ISSUE	GL	05/13
Consultant			

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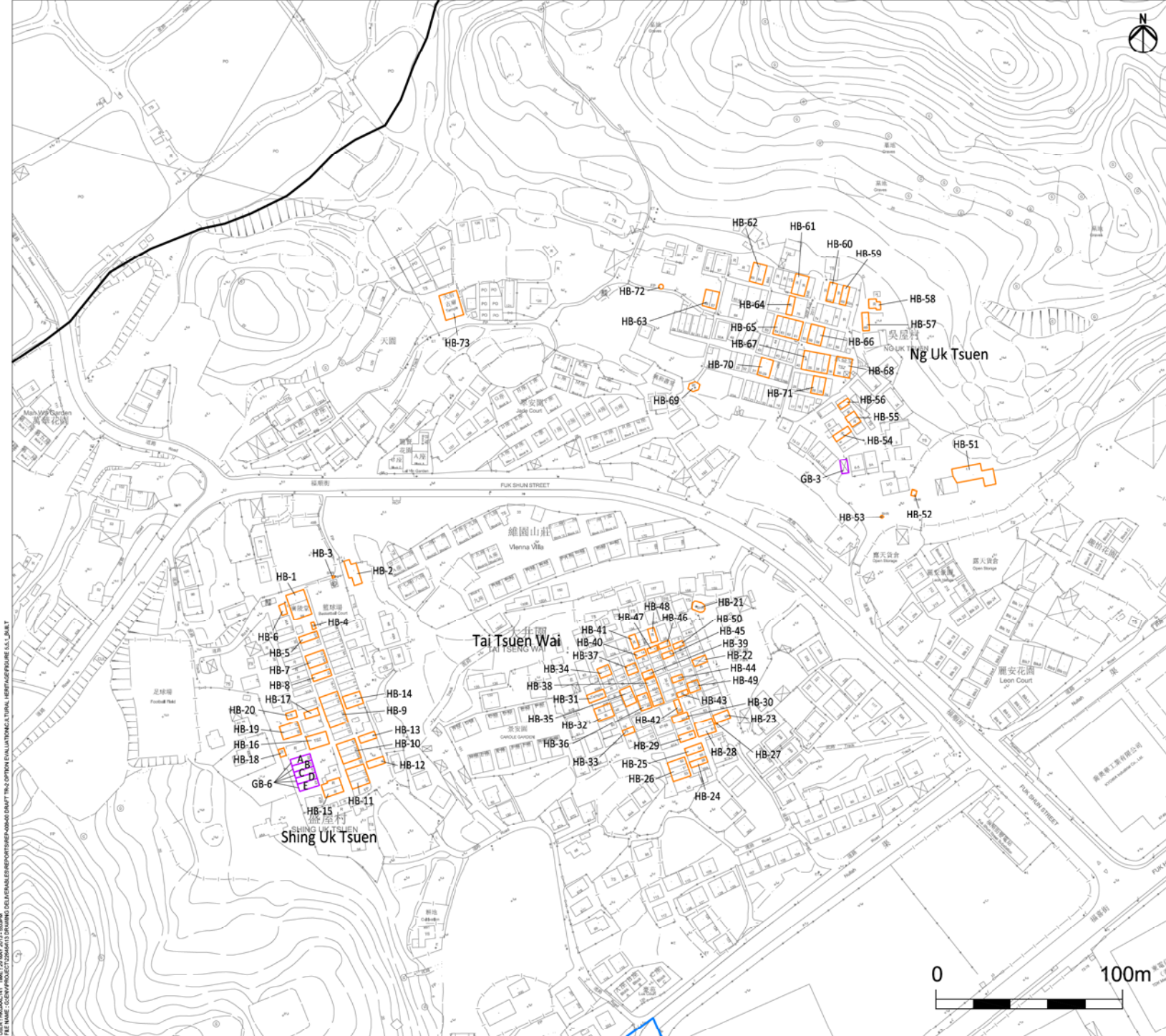
Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
**Built Heritage Resources**

Drawing no.	Figure 5.5.1			Rev.	A
Drawn	GL	Date	05/13	Checked	IL
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- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Declared Monuments (DM)
  - Graded Historic Buildings (GB)
  - Ungraded Built Heritage Resources (HB)
  - Grave (G)
  - Shrine (S)
  - Well and Shrine (W)

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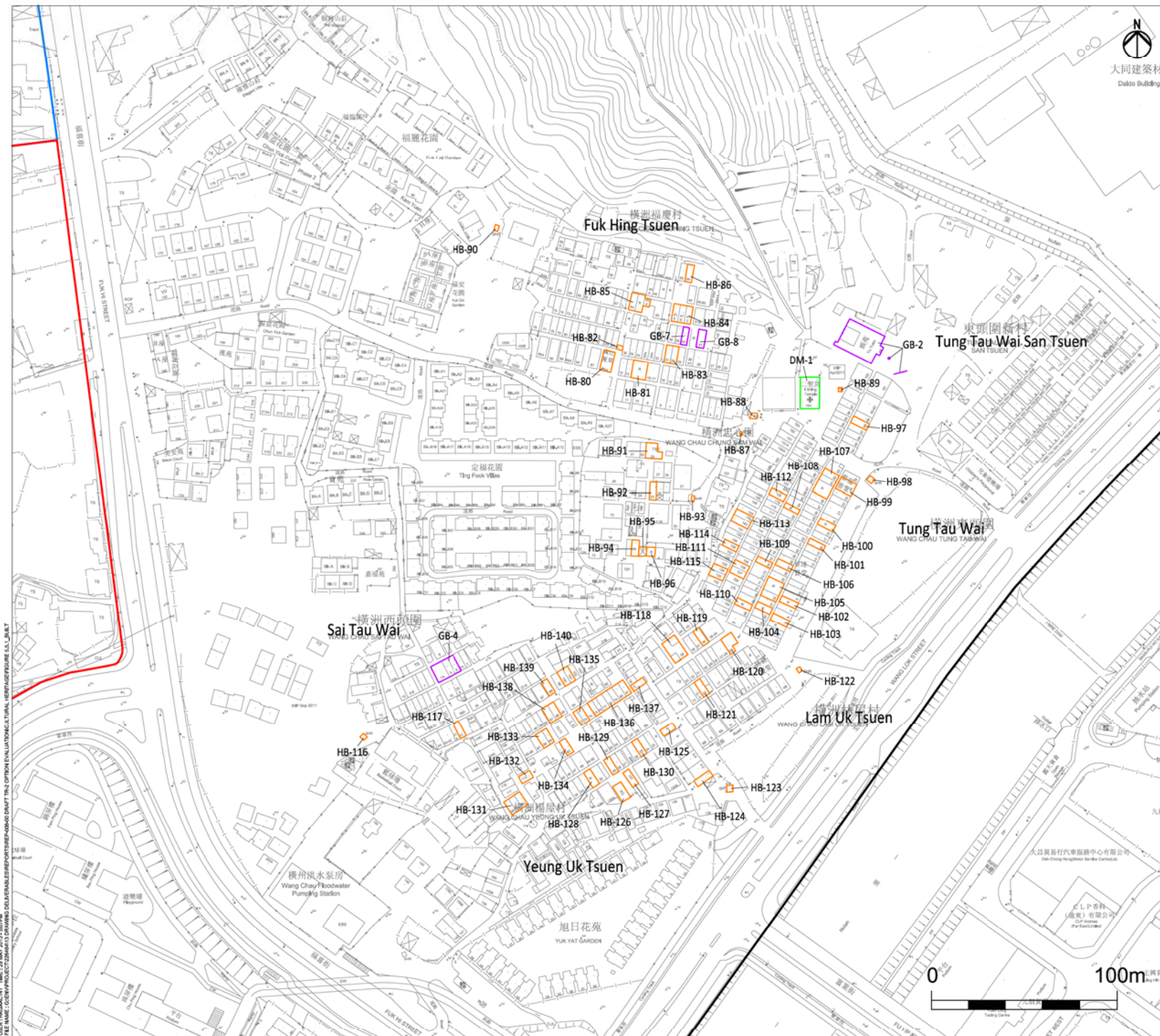
Project title  
 Agreement No. CB20120293  
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
**Built Heritage Resources**

Drawing no.		Figure 5.5.1a		Rev.	
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GL	05/13	IL	ST		
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- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Declared Monuments (DM)
  - Graded Historic Buildings (GB)
  - Ungraded Built Heritage Resources (HB)
  - Grave (G)
  - Shrine (S)
  - Well and Shrine (W)

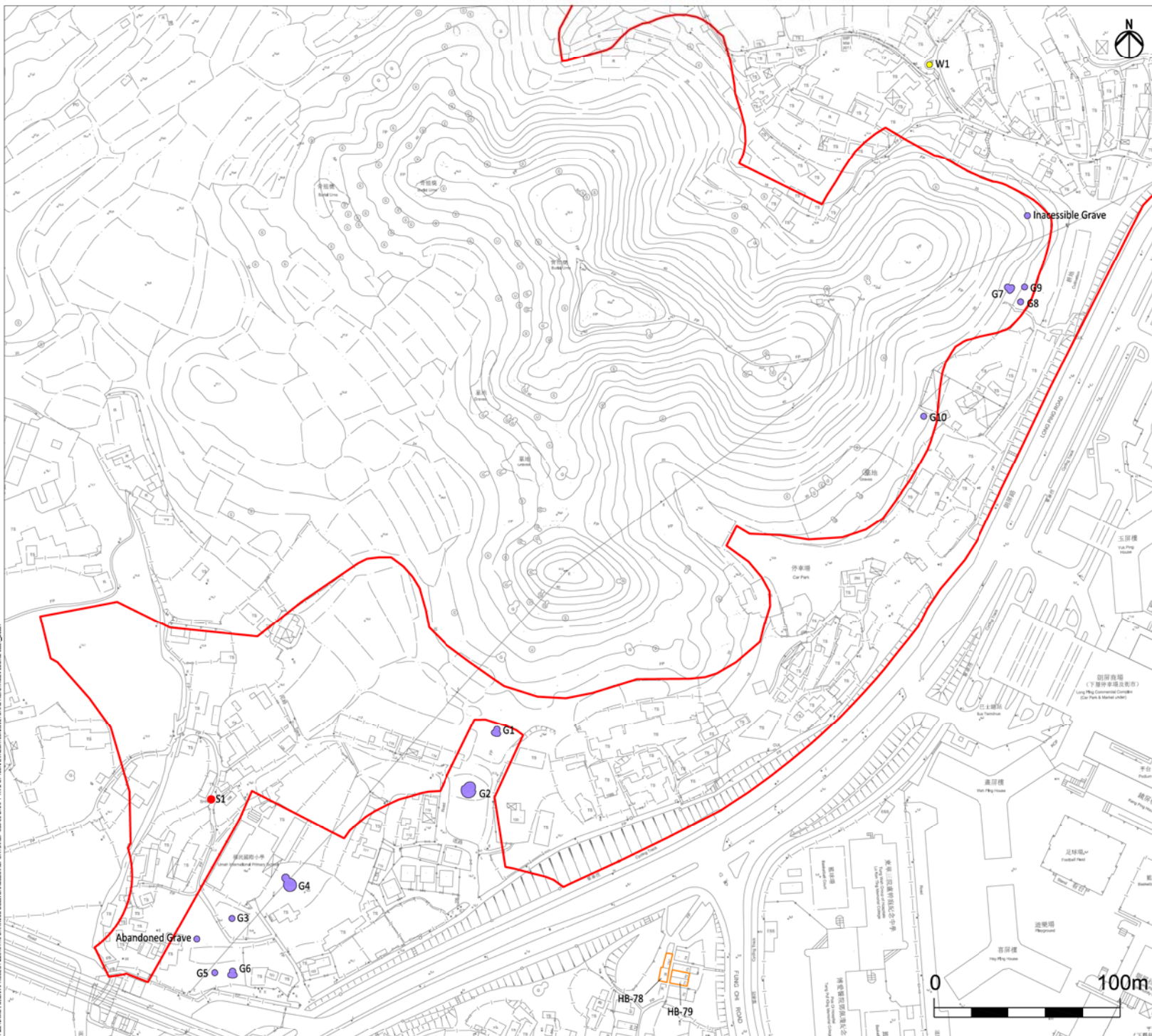
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Rev	Description	By	Date	
Consultant				
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Project title				
Agreement No. CB20120293 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau				
Drawing title				
Built Heritage Resources				
Drawing no.				
Figure 5.1b			Rev.	A
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PRELIMINARY				
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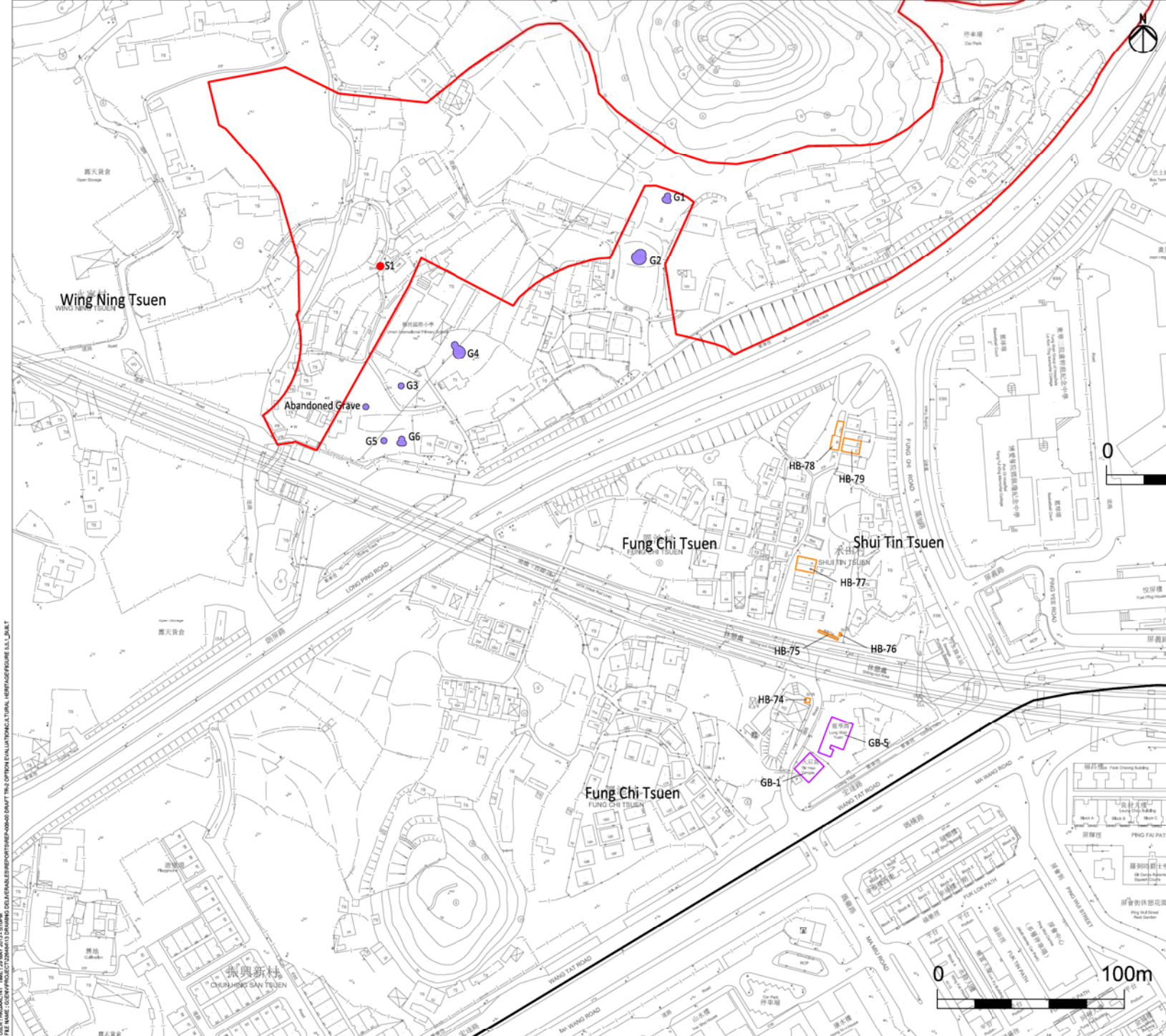


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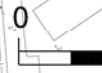


- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Declared Monuments (DM)
  - Graded Historic Buildings (GB)
  - Ungraded Built Heritage Resources (HB)
  - Grave (G)
  - Shrine (S)
  - Well and Shrine (W)

A	FIRST ISSUE	GL	05/13
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			
Built Heritage Resources			
Drawing no.	Figure 5.5.1c	Rev.	A
Drawn	Date	Checked	Approved
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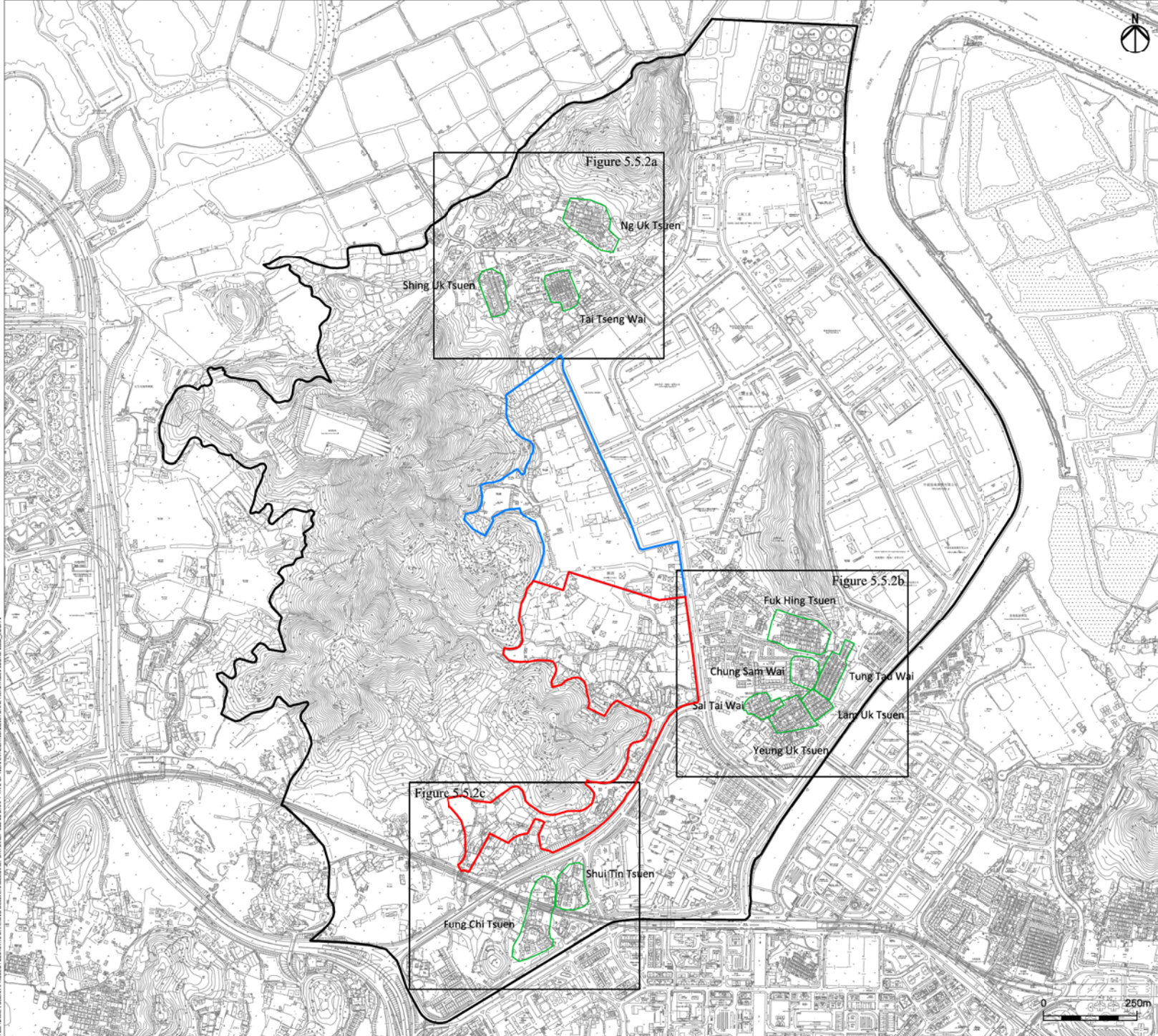


- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Declared Monuments (DM)
  - Graded Historic Buildings (GB)
  - Ungraded Built Heritage Resources (HB)
  - Grave (G)
  - Shrine (S)
  - Well and Shrine (W)



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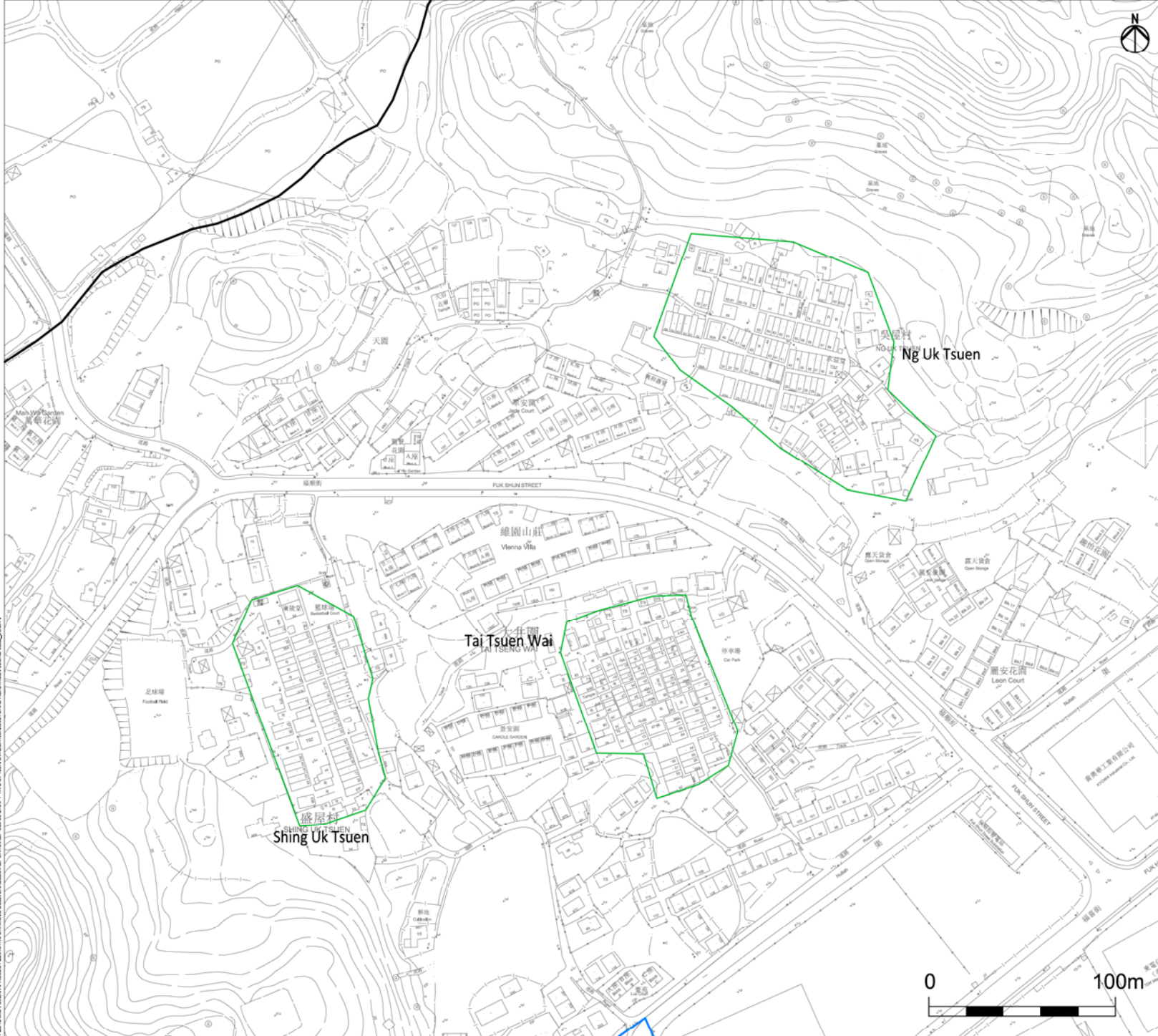
- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Historic Villages

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Drawing title				
Location of Historic Villages				
Drawing no.				
Figure 5.5.2				
Rev.				A
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- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Historic Villages



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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

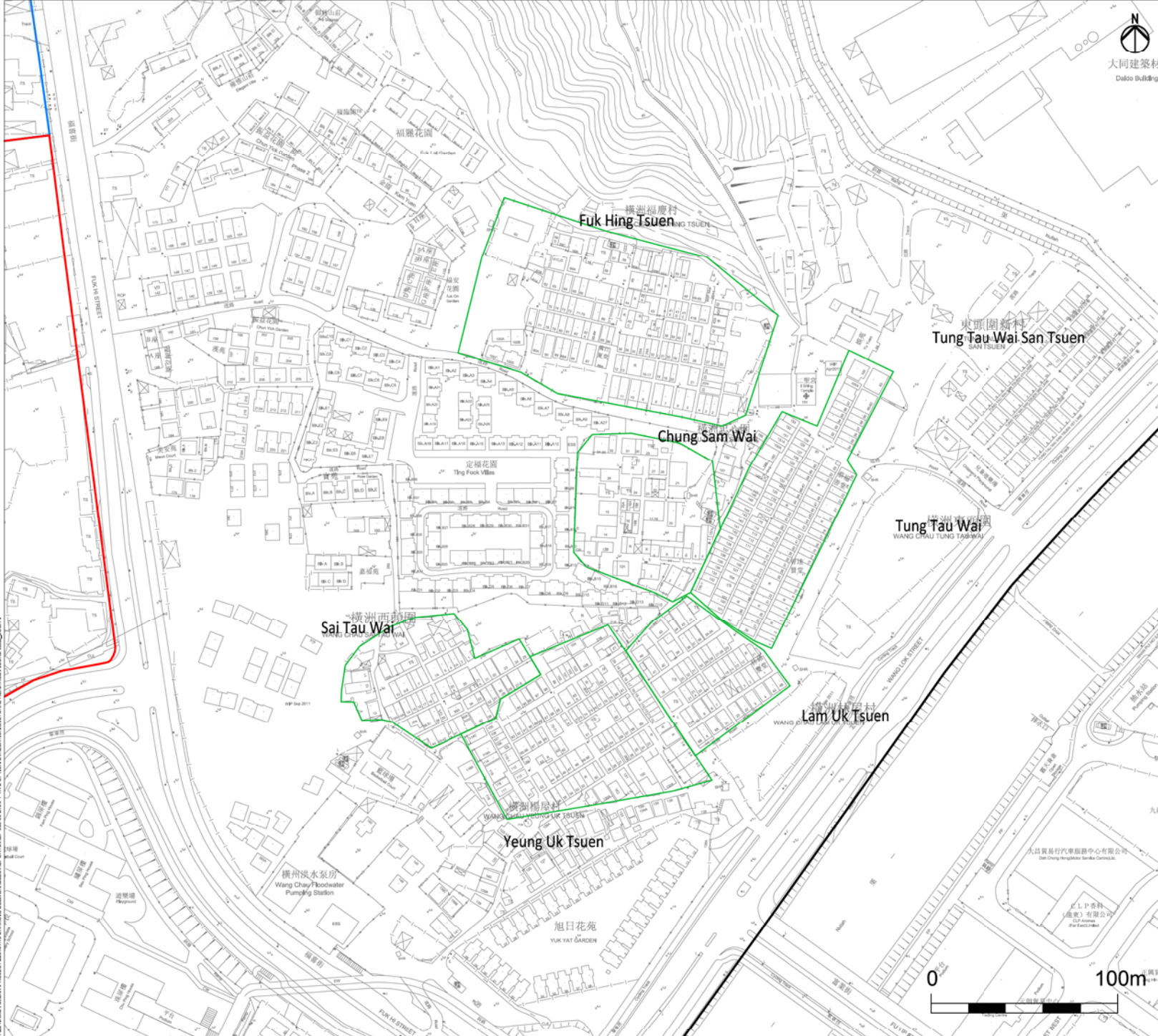
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 Location of Historic Villages

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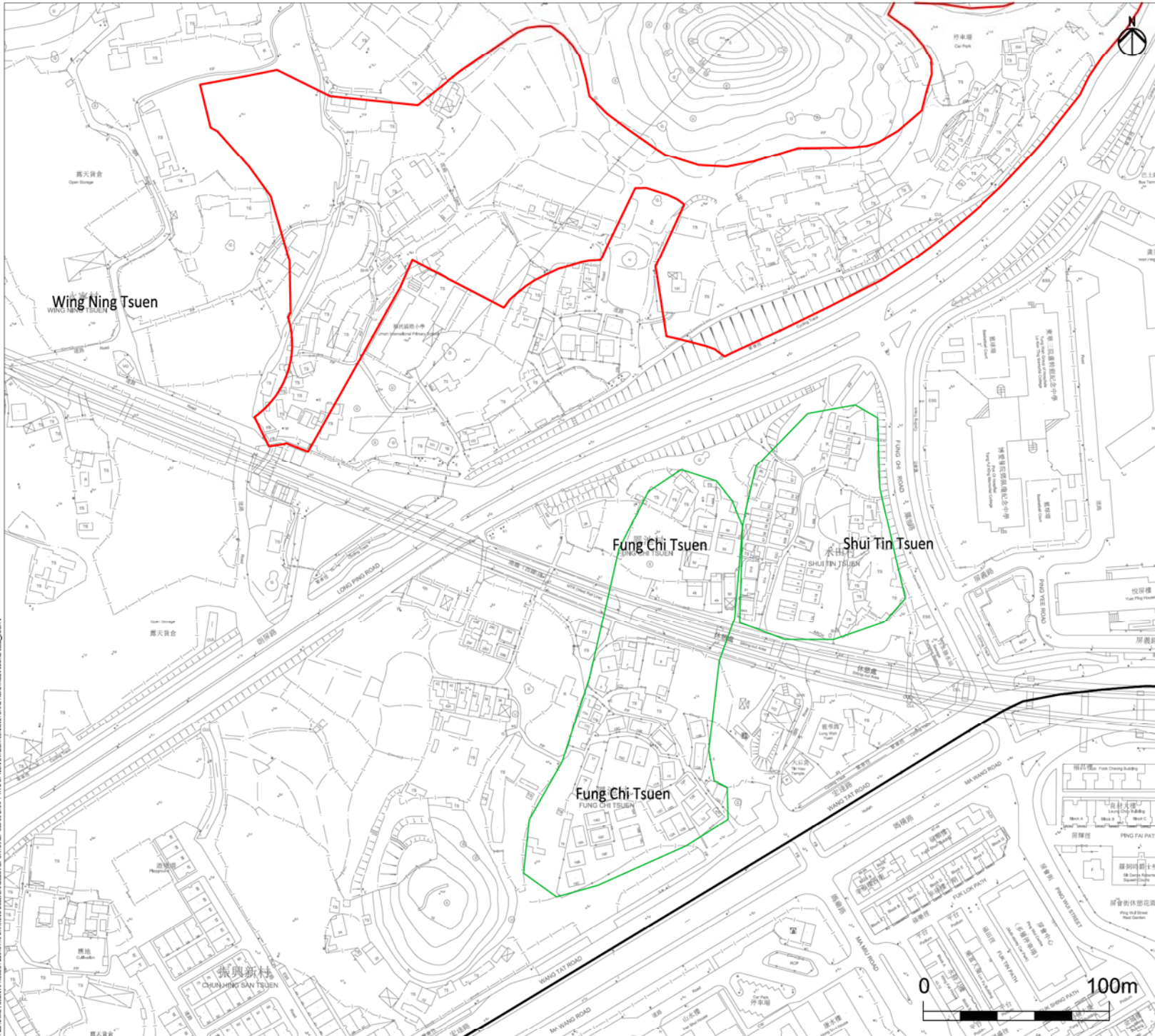


- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Historic Villages

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A	FIRST ISSUE	GL	05/13		
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					
Locations of Historic Villages					
Drawing no.					
Figure 5.5.2b					
Rev.	A				
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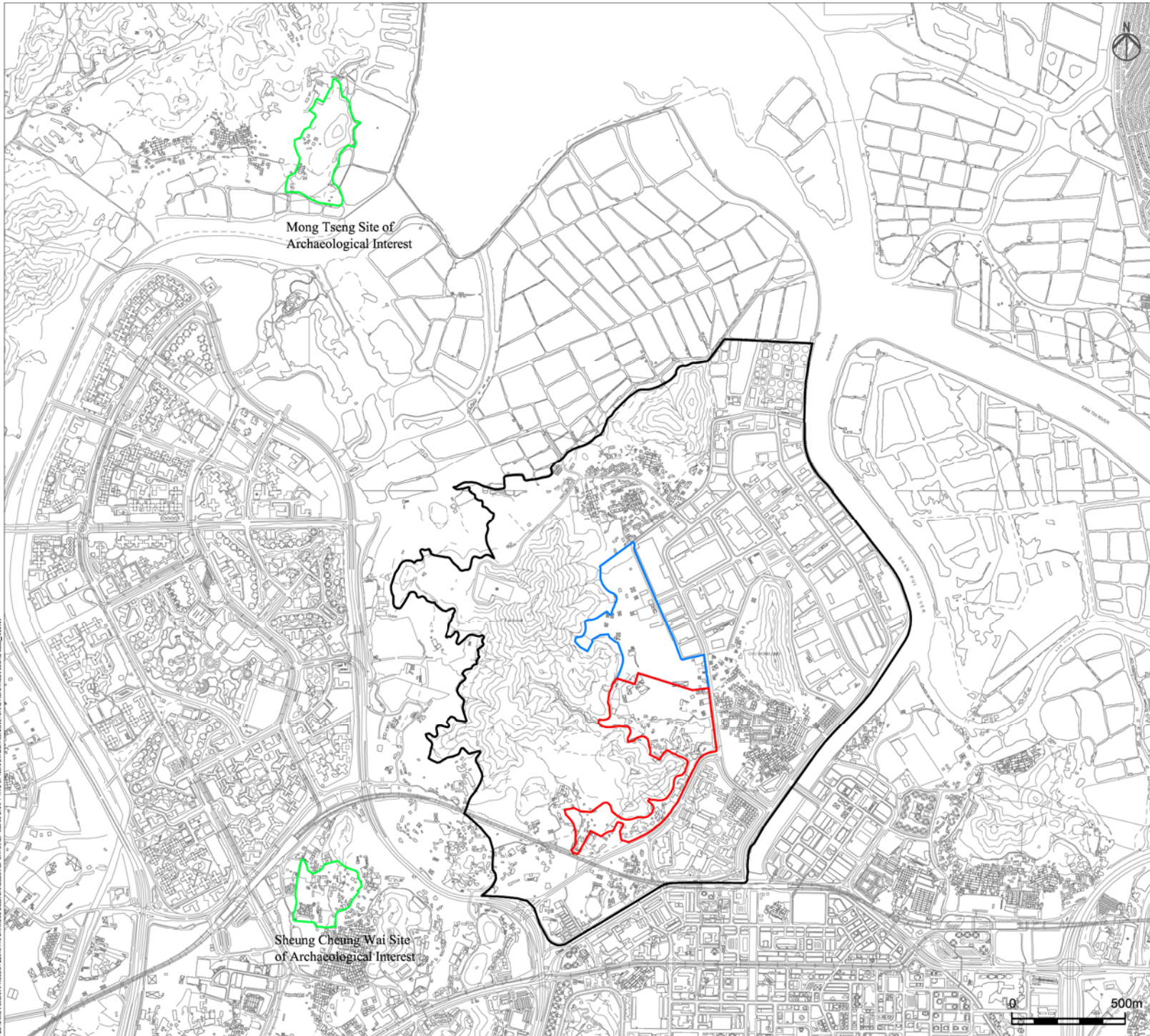


- Legend**
-  Study Area
  -  Public Housing Site
  -  Yuen Long Industrial Estate Extension
  -  Historic Villages

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A	FIRST ISSUE	GL	05/13
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 5.5.2c	Rev.	A
Drawn	GL	Date	05/13
Scale	1:2000(A3)	Checked	IL
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- Legend**
-  Study Area
  -  Public Housing Site
  -  Yuen Long Industrial Estate Extension
  -  Site of Archaeological Interest

Mong Tseng Site of  
Archaeological Interest

Sheung Cheung Wai Site  
of Archaeological Interest

Rev	Description	By	Date
A	FIRST ISSUE	GL	05/13

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  
 Known Sites of Archaeological Interest

Drawing no.	Figure 5.5.3	Rev.	A
Drawn	GL	Date	05/13
Checked	IL	Approved	ST
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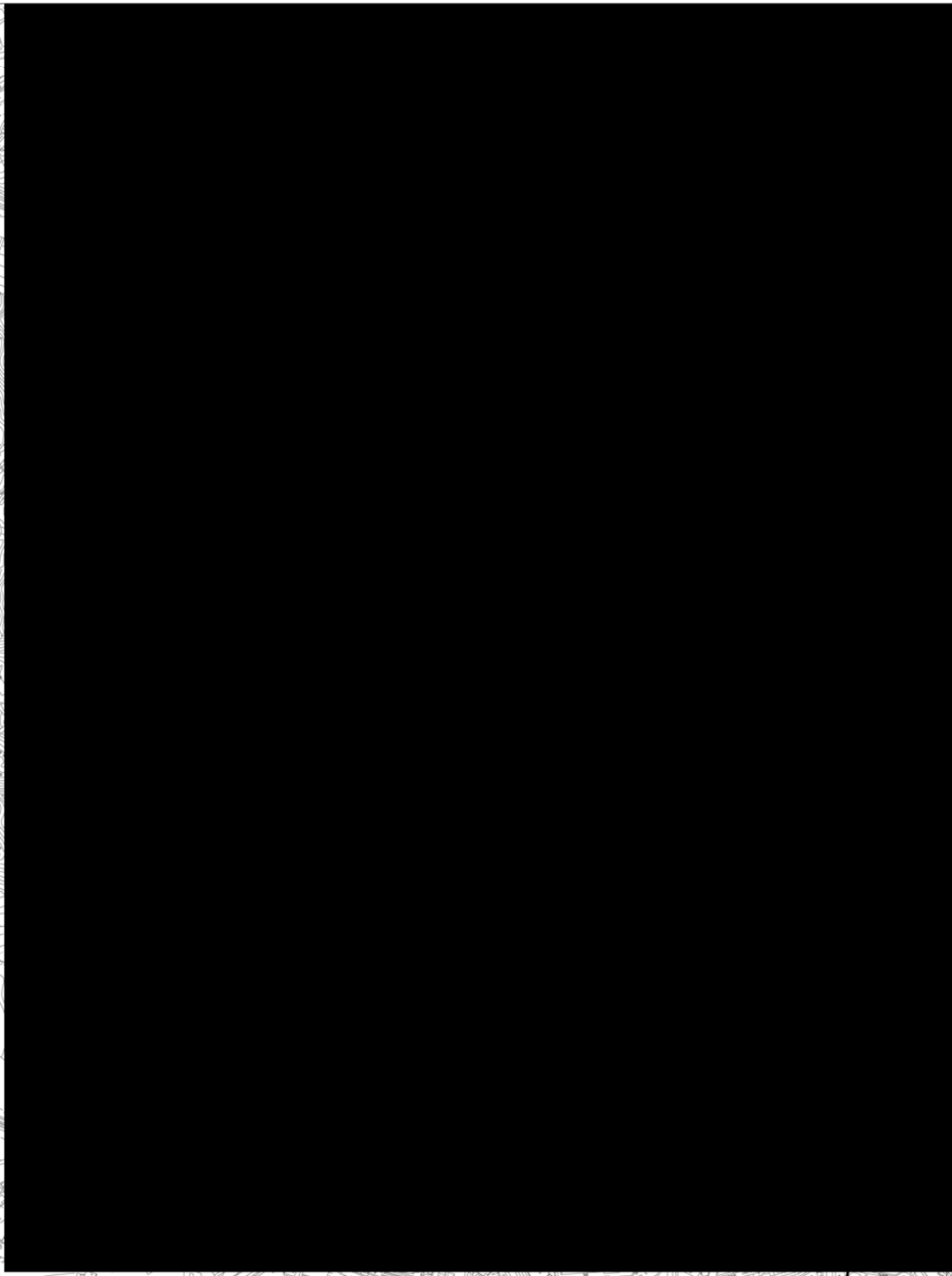
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- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Old Schedule Lot (OSL)
  - Old New Grant Lot (ONG)
  - New Grant Lot (NNG)
  - Short Term Tenancy (STT)
  - Government Land Licence (GLL)
  - Permanent Government Land Allocation (GLA)
  - Area of Interest


Rev	Description	By	Date
A	FIRST ISSUE	GL	05/13

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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  
**Potential Area of Archaeological Interest**

Drawing no. Rev. A

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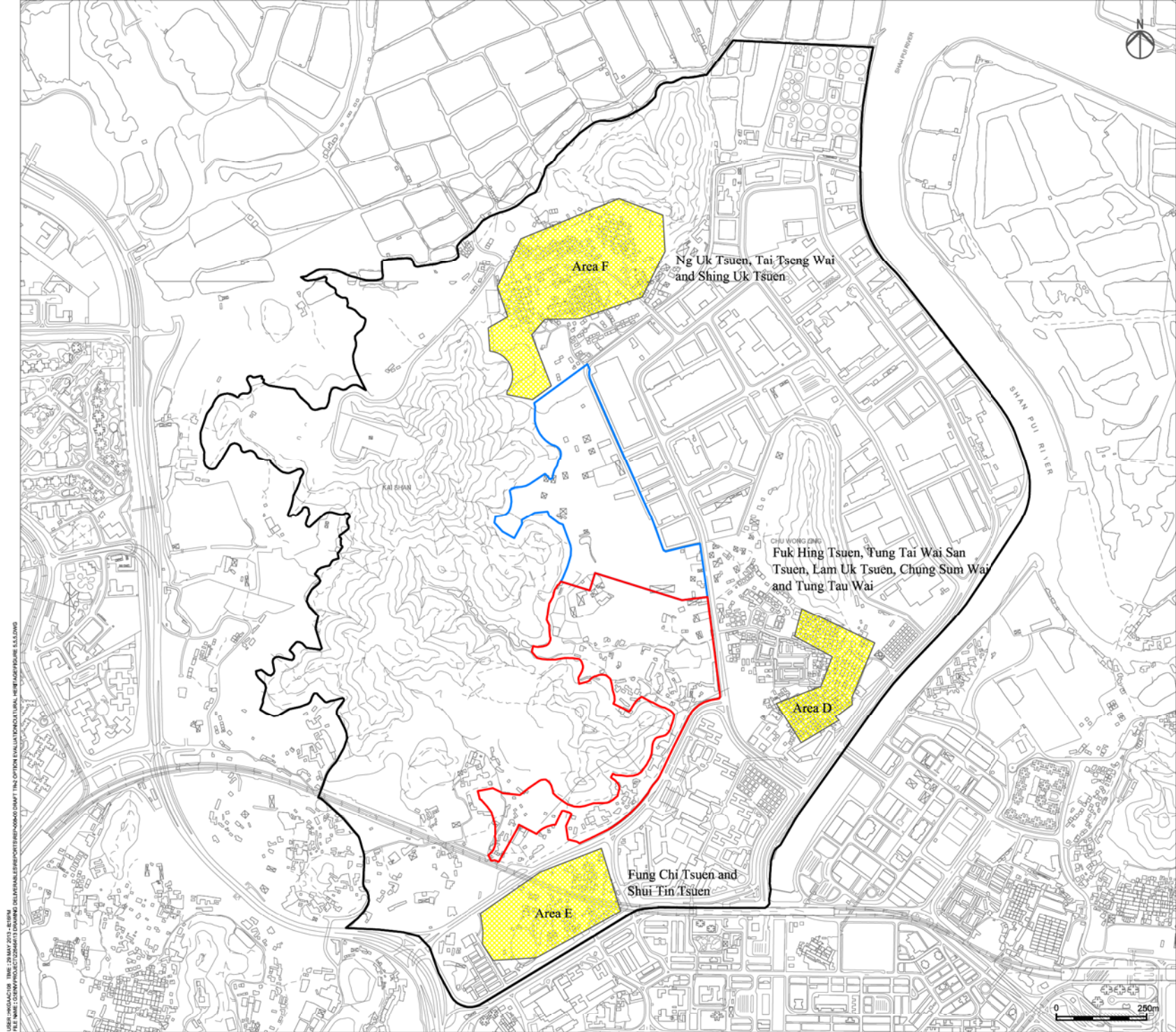
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250m





- Legend**
- Study Area
  - Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Historical Villages and Archaeological No-go Areas

Rev	Description	By	Date
A	FIRST ISSUE	GL	05/13

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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

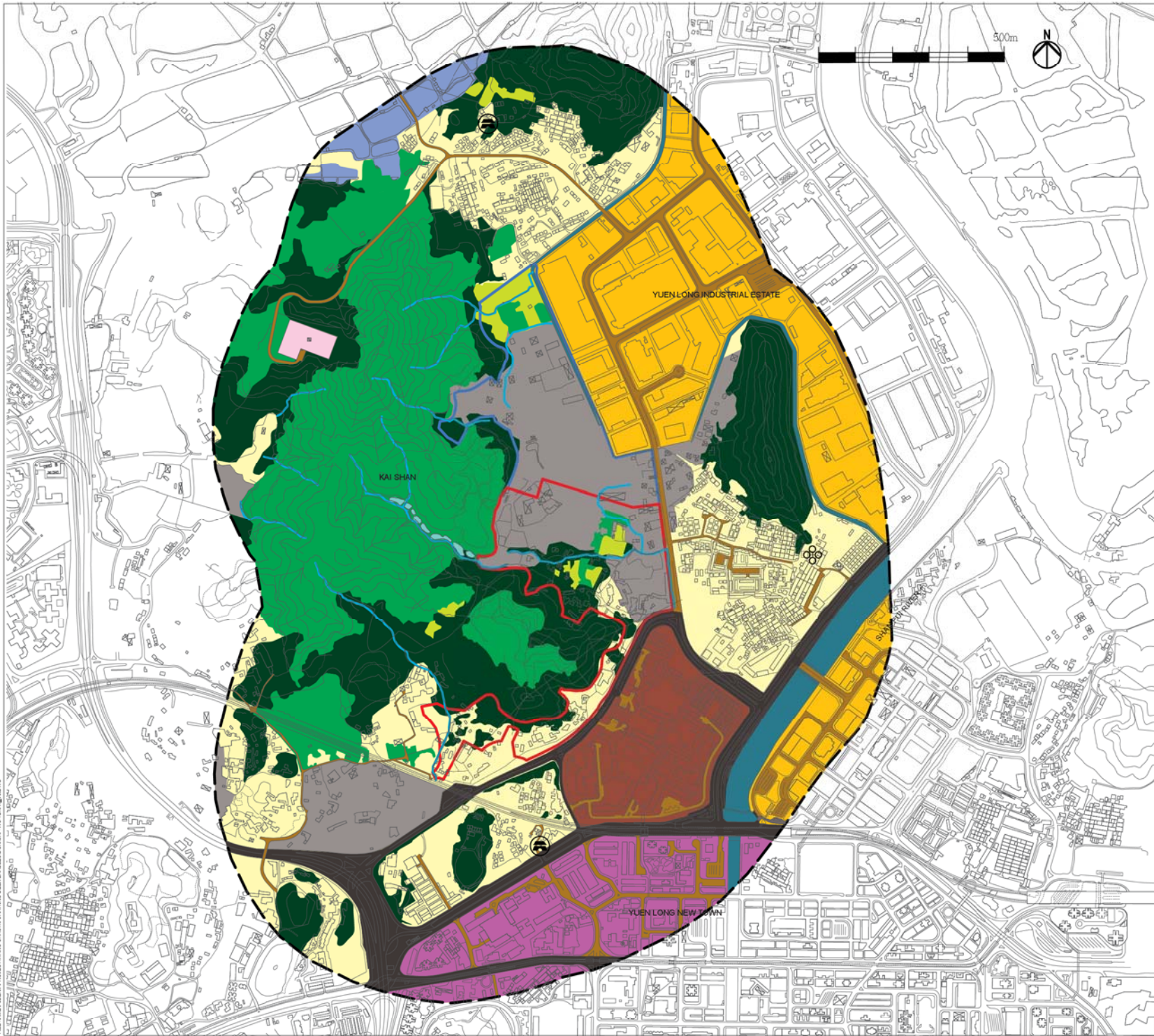
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Historical Villages and Archaeological No-go Areas

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- Legend**
- Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Study Area (500M Offset From Site Boundary)
  - Heritage Feature
  - Temple

- Landscape Resources (LRs)**  
Total area of LR within the study area shown in hectares (ha) below.
1.  Industrial Area (53ha)
  2.  Villages Area (53ha)
  3.  Agricultural Land (4.3ha)
  4.  Open Storage (31ha)
  5.  Mixed Woodland, Shrubland and Grassland (66ha)
  6.  Woodlands Area (71ha)
  7.  Residential Area (16ha)
  8.  Major Transportation Corridor (18ha)
  9.  Roads and Urban Infrastructure (16ha)
  10.  Streams (4590m)
  11.  Ponds (0.3ha)
  12.  Fishponds (4.7ha)
  13.  Artificial Channel (8ha)
  14.  Urban Area (23ha)
  15.  Utilities (1ha)

Rev	Description	By	Date
A	First Issue	PL	16/05

**ARUP**

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

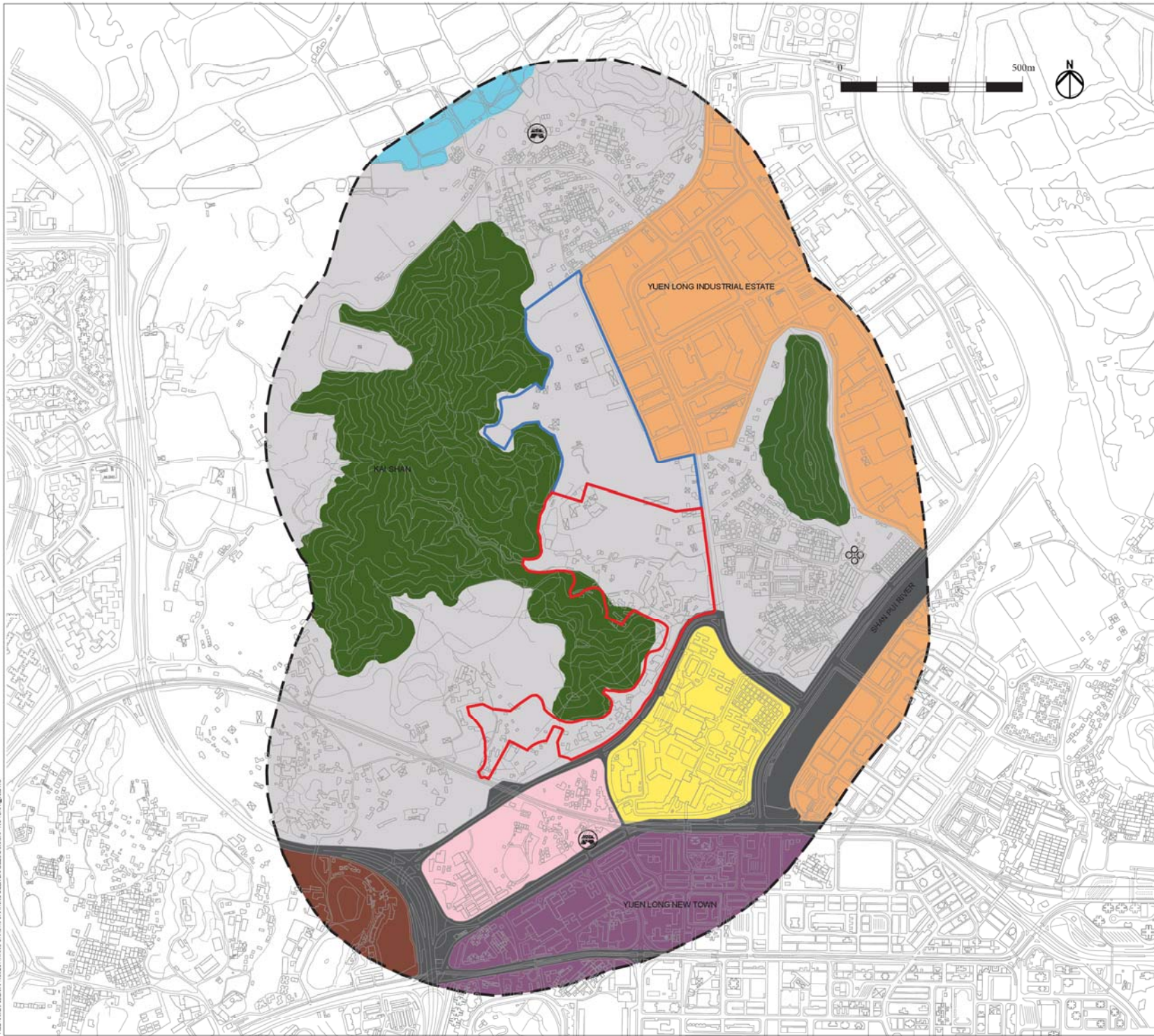
Drawing title  
Landscape Resources Plan

Drawing no.	Fig. 5.6.1	Rev.	A
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Drawn	PL	Date	16/05	Checked	JC	Approved	ST
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**Legend**

- Public Housing Site
- Yuen Long Industrial Estate Extension
- Study Area (500M Offset From Site Boundary)
- Heritage Feature
- Temple

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

1. ■ Industrial Urban Landscape (54Ha)
2. ■ Miscellaneous Rural Fringe Landscape (158Ha)
3. ■ Upland And Hillside Landscape (70Ha)
4. ■ Residential Urban Landscape (16Ha)
5. ■ Transportation Corridor Landscape (23Ha)
6. ■ Urban Peripheral Village Landscape (12Ha)
7. ■ Miscellaneous Urban Fringe Landscape (7Ha)
8. ■ 'Hui' Urban Landscape (24Ha)
9. ■ Rural Coastal Plain Landscape (5Ha)

Rev	Description	By	Date
A	First Issue	PL	16/05

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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 Character Plan

Drawing no.	Fig. 5.6.2	Rev.	A
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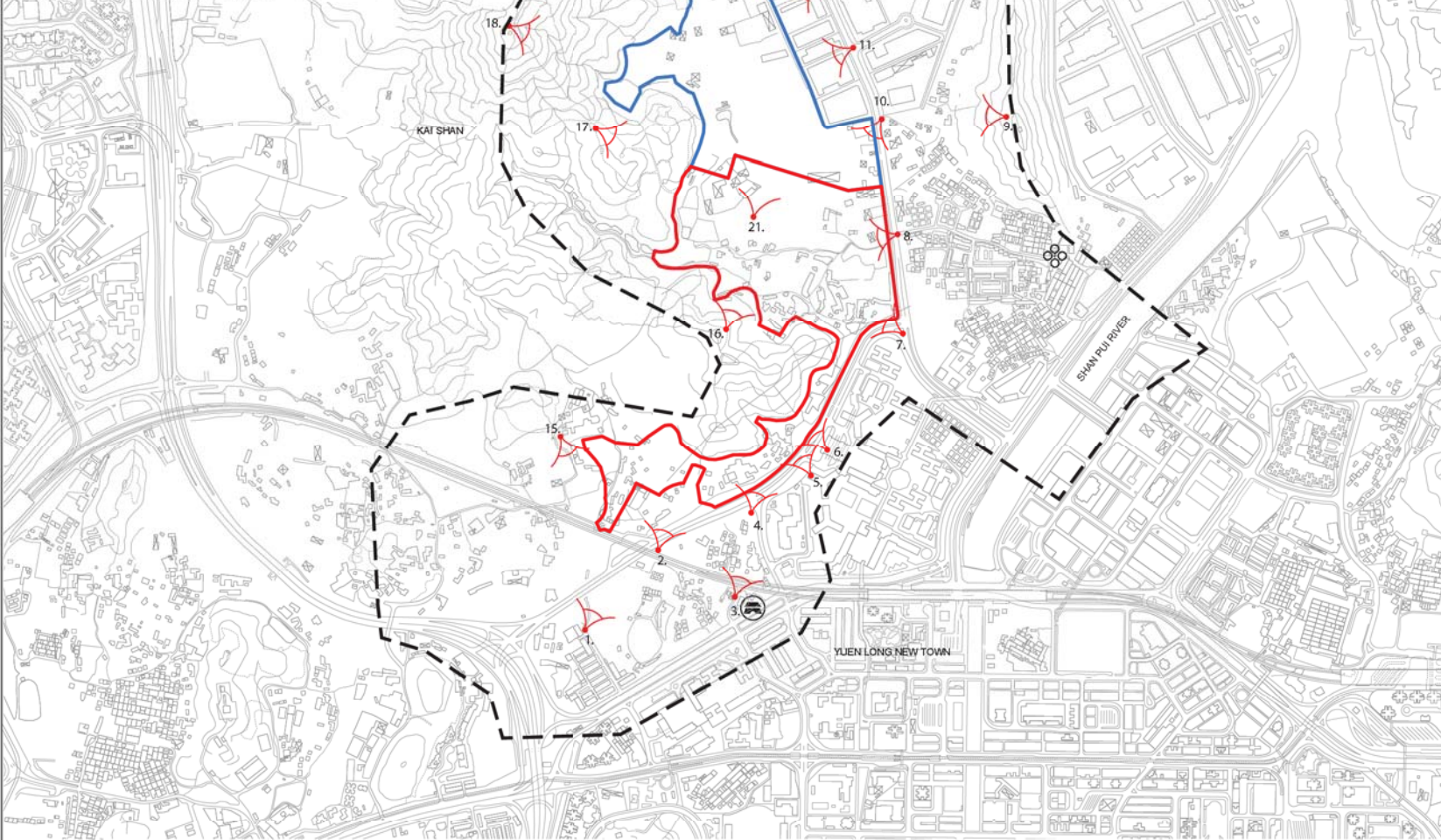
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Overview Plan Scale 1:100,000



**Legend**

- Public Housing Site
- Yuen Long Industrial Estate Extension
- - - Zone of Visual Influence
- VSR Location
- Temple
- Heritage Feature

**VSR ID.**

- VSR 1 Chun Hing New Village
- VSR 2 Long Ping Road
- VSR 3 Fung Chi Tsuen
- VSR 4 Fung Chi Road Intersection
- VSR 5 Roof Garden of Long Ping Estate Market
- VSR 6 Wah Ping House
- VSR 7 Fuk Hi Street Intersection
- VSR 8 Ting Fook Villas
- VSR 9 Chu Wong Ling
- VSR 10 Fuk Hi Street adjacent China Inspection Co. Ltd.
- VSR 11 Fuk Hang Street
- VSR 12 Fuk Wang Street
- VSR 13 Fuk Shun Street Intersection
- VSR 14 Tai Tseng Wai
- VSR 15 Upland behind Wing Ning Tsuen
- VSR 16 Foothills above Yeung Uk San Tsuen
- VSR 17 Uphill Open Grassland - Kai Shan
- VSR 18 Kai Shan Peak - facing east
- VSR 19 High point above Shing Uk Tsuen
- VSR 20 Open area & car park, Ng Uk Tsuen
- VSR 21 Open car park near Yeung Uk San Tsuen

Rev	Description	By	Date
A	First Issue	PL	16/05

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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  
 Visually Sensitive Receiver Plan

Drawing no. Fig. 5.6.3 Rev. A

Drawn	PL	Date	16/05	Checked	JC	Approved	ST
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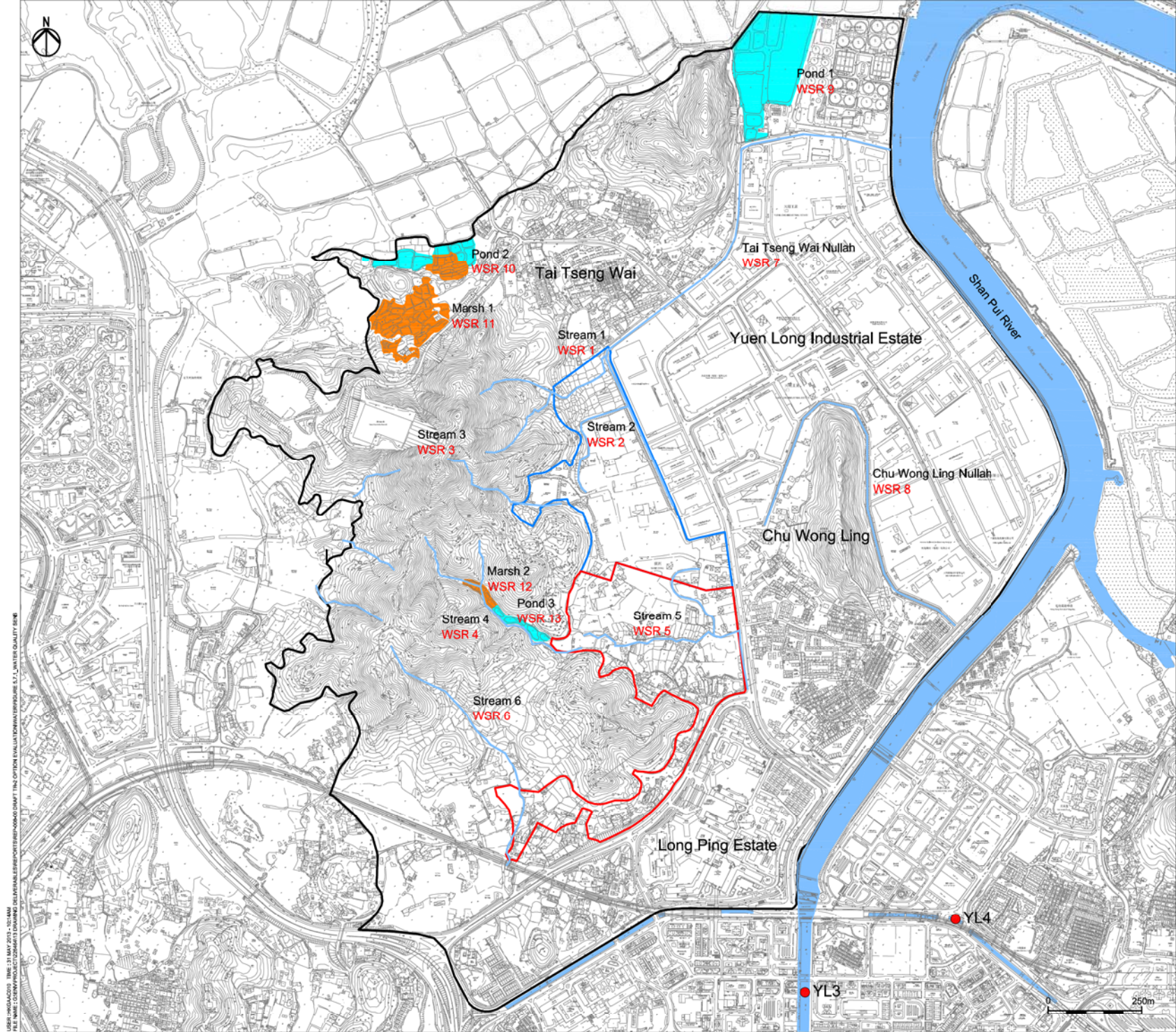
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Legend

- Study Area
- Public Housing Site
- Yuen Long Industrial Estate Extension
- EPD River Water Quality Monitoring Station
- Pond
- Marsh
- Watercourse / Streams

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Rev	Description	By	Date
A	FIRST ISSUE	GL	05/13

Consultant

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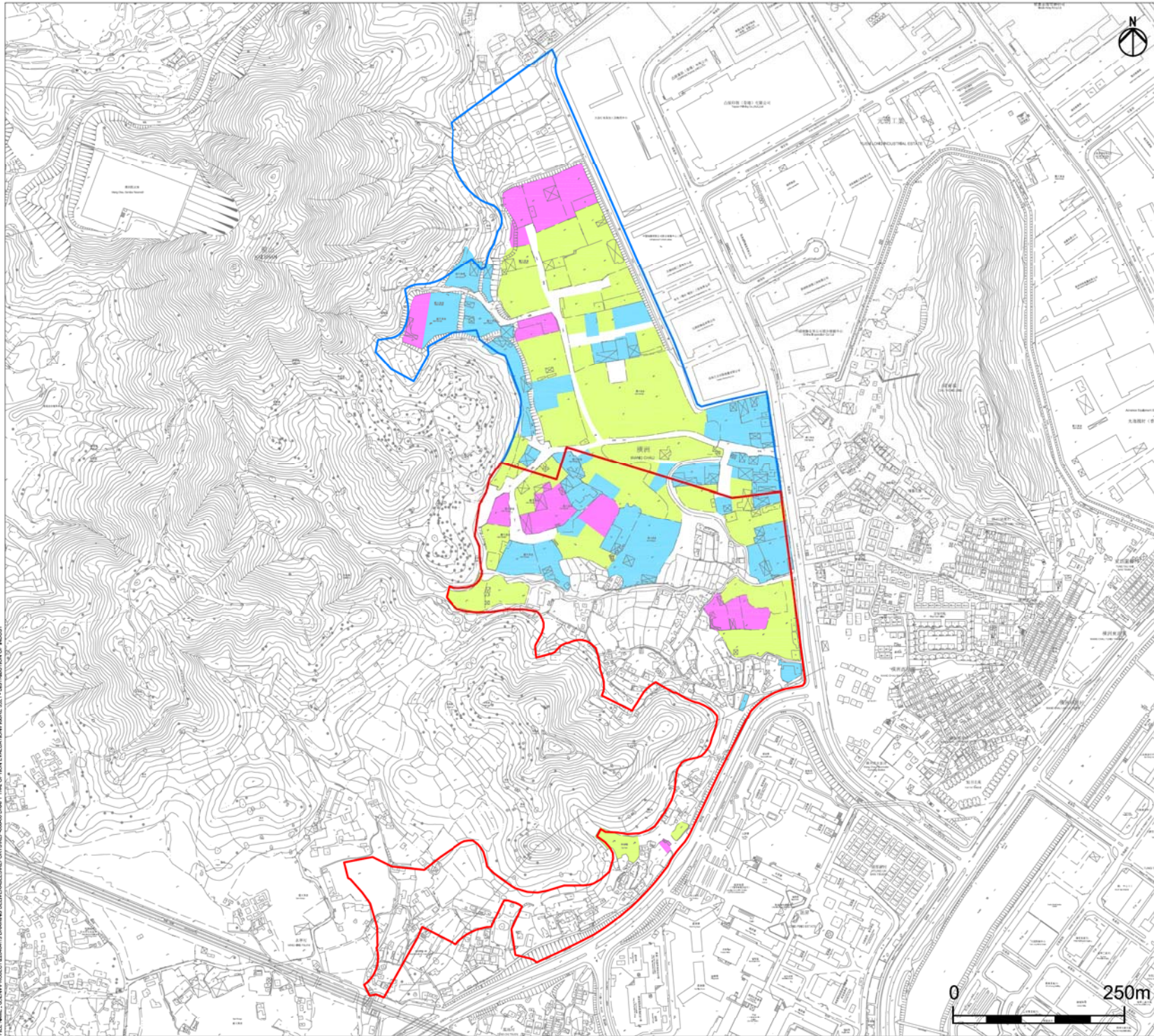
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 Planning and Engineering Study for the Public Housing Site  
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title  
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- Legend**
- Public Housing Site
  - Yuen Long Industrial Estate Extension
  - Waste Recycling
  - Vehicle & Heavy Equipment Repairing Workshop and Metal Workshop
  - Open Area Storage/ Container Storage Yard/ Open Carpark/ Logistic Company/ Warehouses

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

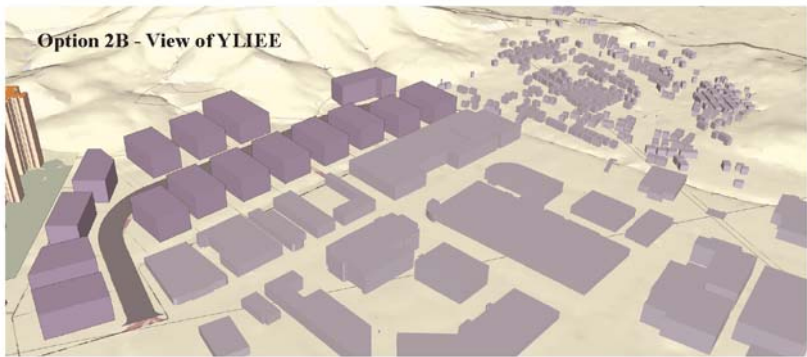
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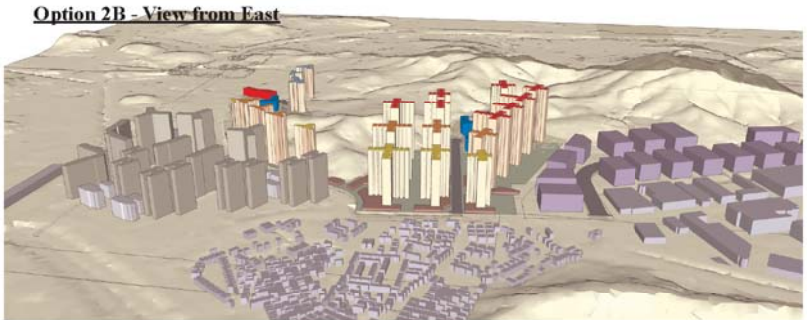
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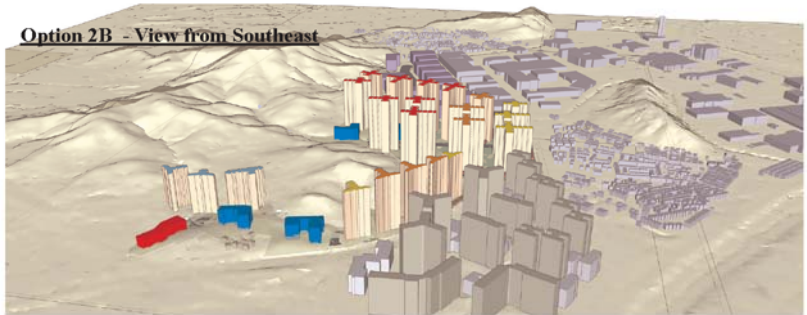
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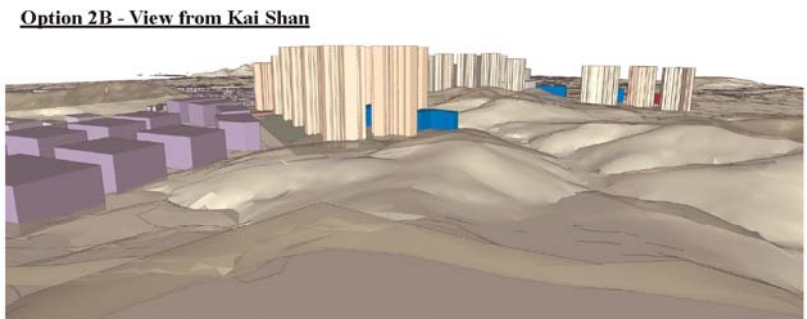
Option 2B - View of YLIEE



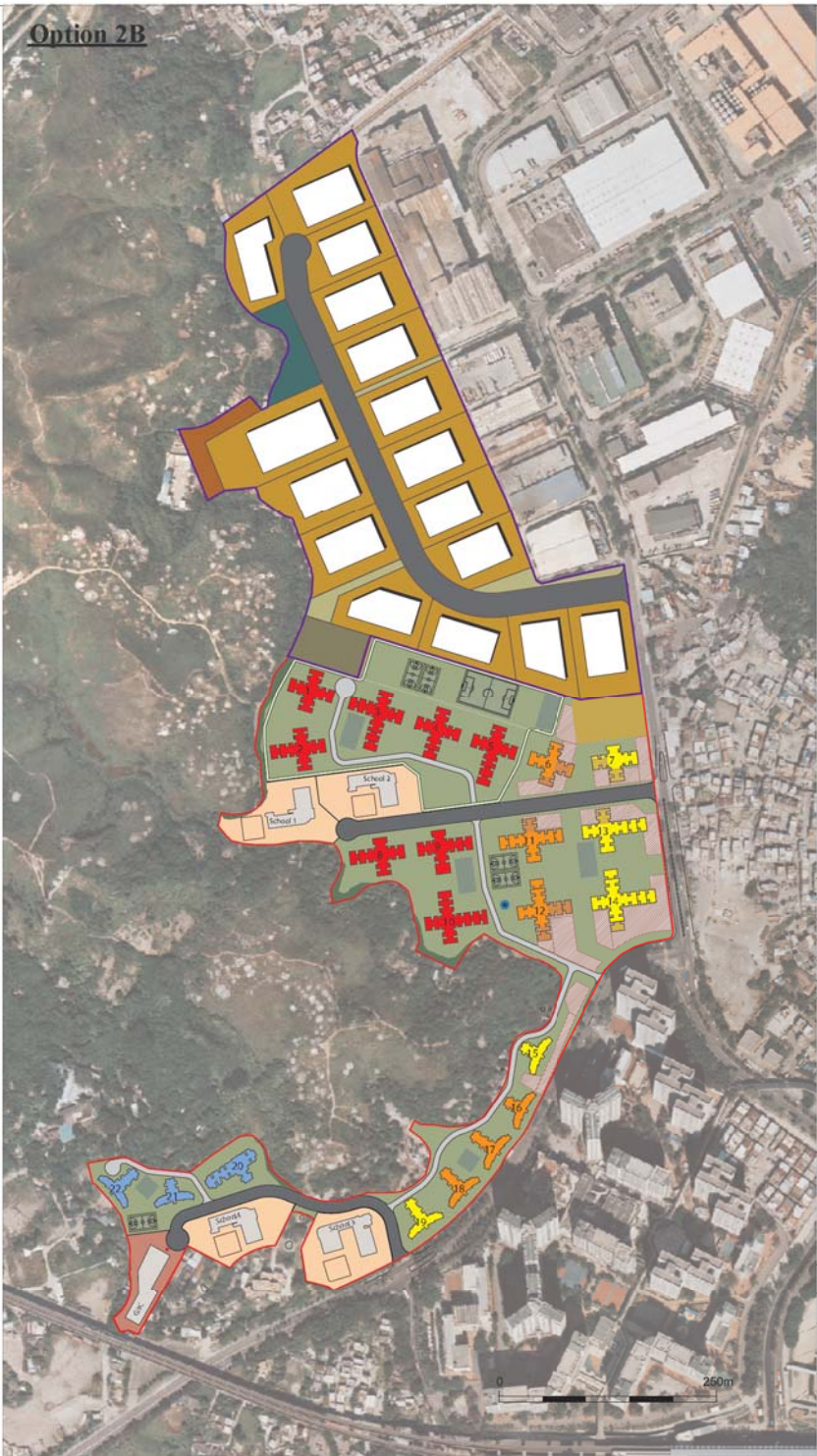
Option 2B - View from East



Option 2B - View from Southeast



Option 2B - View from Kai Shan



**Legend**

- YLIEE Site
- PH Site

**PH Site**

- 41 Storeys
- 36 Storeys
- 31 Storeys
- 26 Storeys
- Commercial (1 Storey)
- School Site
- GIC
- Public Transport Interchange
- Playground
- Jogging Track
- Road
- EVA
- Well
- Shrine

**YLIEE Site**

- Industrial Plots
- Parking Spaces
- Amenity Area/Pedestrian Corridor
- Local Open Spaces (Buffer Area between YLIEE & PH sites)
- Slope Area/Green Belt


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Rev	Description	By	Date

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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  
 Master Layout Plan - Preferred Option 2B

Drawing no.	Figure 7.1.1			Rev.	B
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