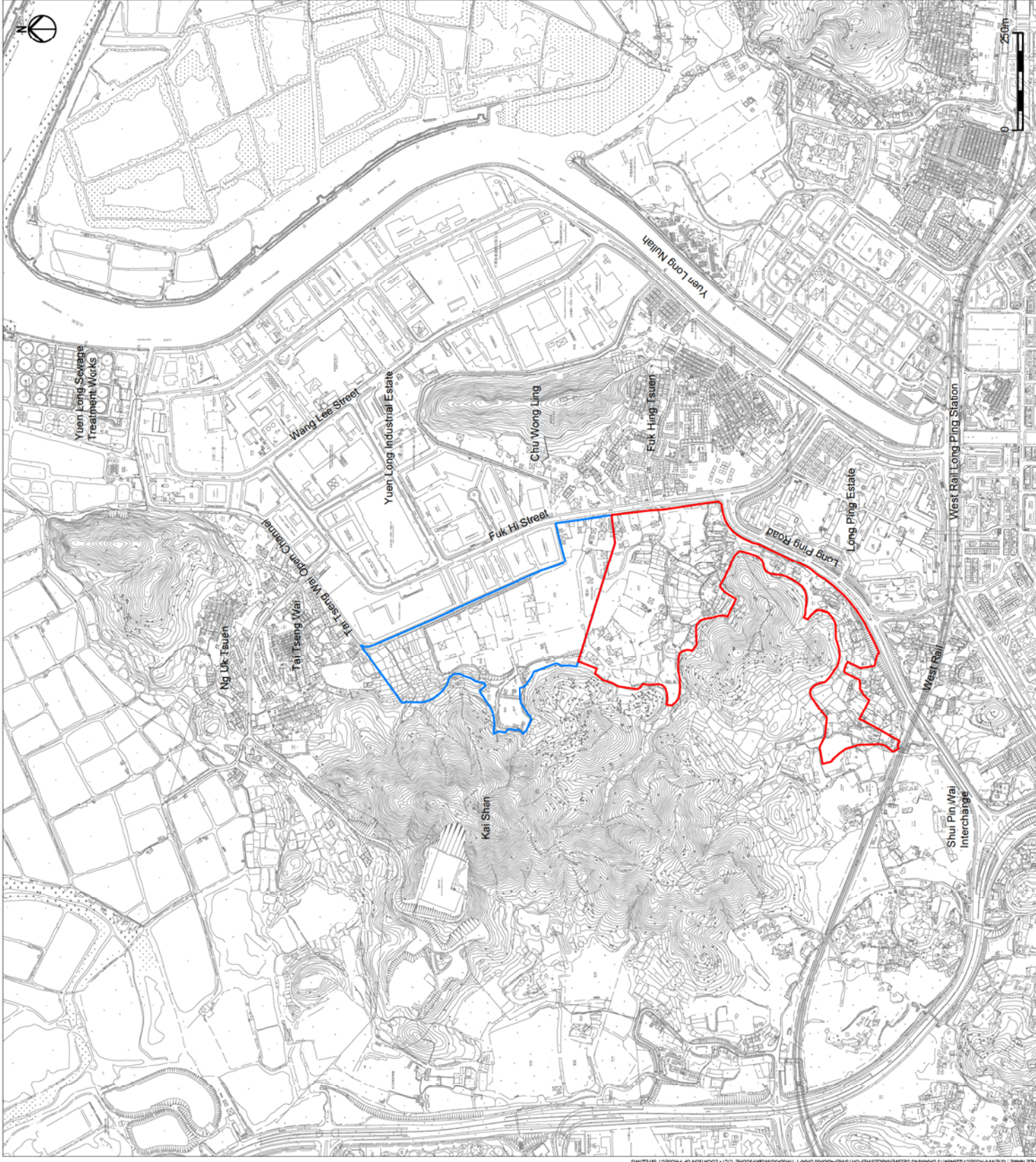


Figures



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

Rev	Description	GL	10/13
A	FIRST ISSUE		
		By	Date

ARUP

Project title
 Agreement No. CB201/20293
 Planning and Engineering Study for the Public Housing Site
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title
 Location of Project Site

Drawing no.	Figure 1.1.1	Rev.	A
Drawn	GL	Checked	IL
Date	10/13	Approved	ST
Scale	AS SHOWN	Status	PRELIMINARY



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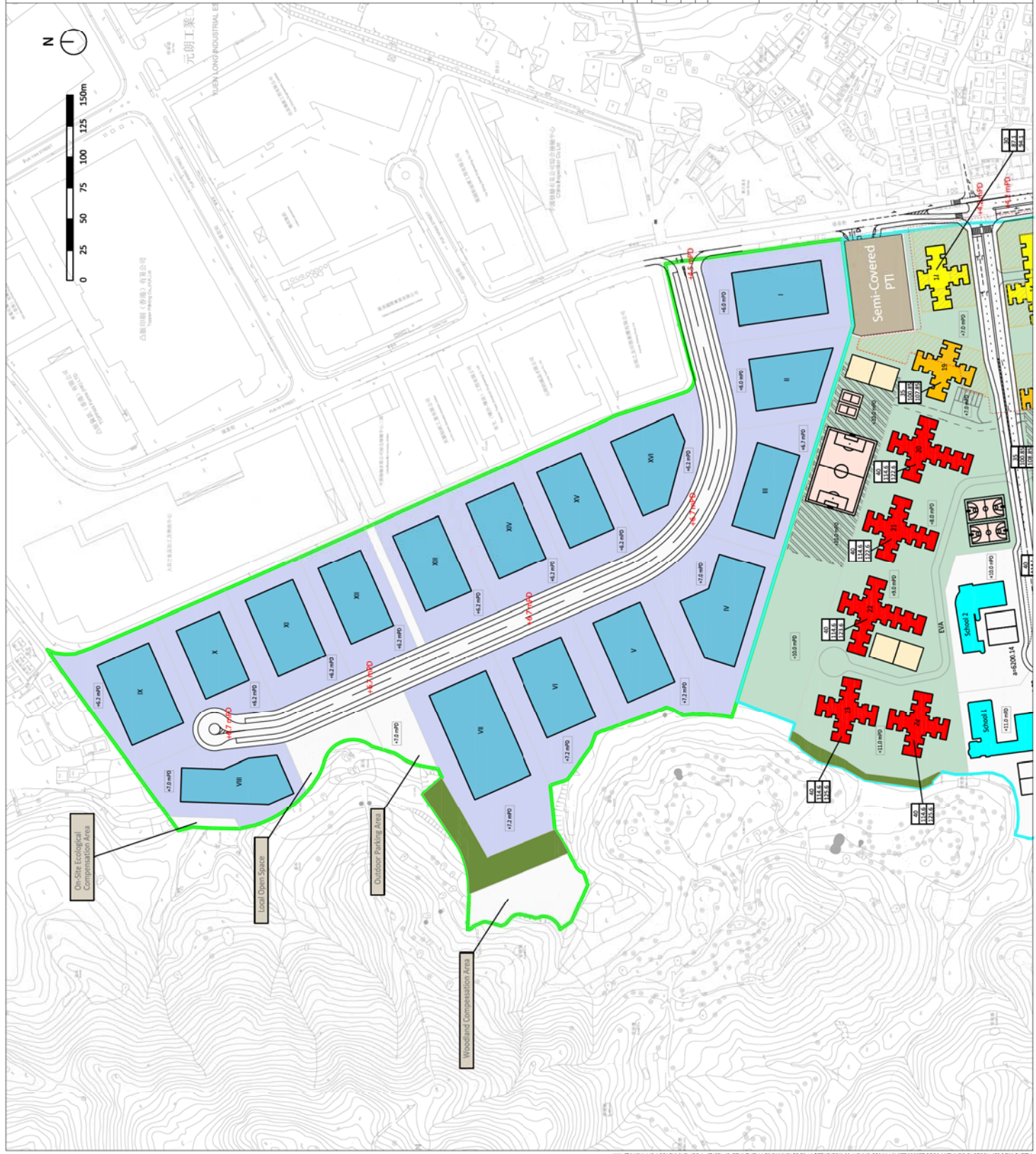
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Legend

- PH Site Development Boundary
- YLIEE Site Development Boundary
- Development Plots
- PH Site Not Developable Area
- YLIEE Site Not Developable Area
- Other Areas
- YLIEE Building Footprints
- 41 storys
- 36 storys
- 31 storys
- GIC & Schools
- Commercial activities
- Carpark
- Playground
- 30-Degree Cut Slope

- No. of domestic storys (incl. podium/lobby)
- Baking height (meters)
- mPD of building (meters)
- Proposed Finish Height in mPD
- Existing Spot Levels in mPD
- Road Spot Levels in mPD
- Other Considerations
- Underground Parking Floor Slab Height
- Other Considerations

+8.0 mPD	Proposed Finish Height in mPD
+11 mPD	Existing Spot Levels in mPD
+14 mPD	Road Spot Levels in mPD
+17 mPD	Other Considerations
+20 mPD	Underground Parking Floor Slab Height
+23 mPD	Other Considerations



ARUP

Project title
 Agreement No. CB201/20293
 Planning and Engineering Study for the Public Housing Site
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title
 Preferred Option Layout Plan - YLIEE Site

Drawing no.	Figure 2.1.2B	Rev.	A
Drawn	CW	Date	10/13
Checked	IL	Approved	ST
Scale	1:3000 (A3)	Status	PRELIMINARY



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Legend

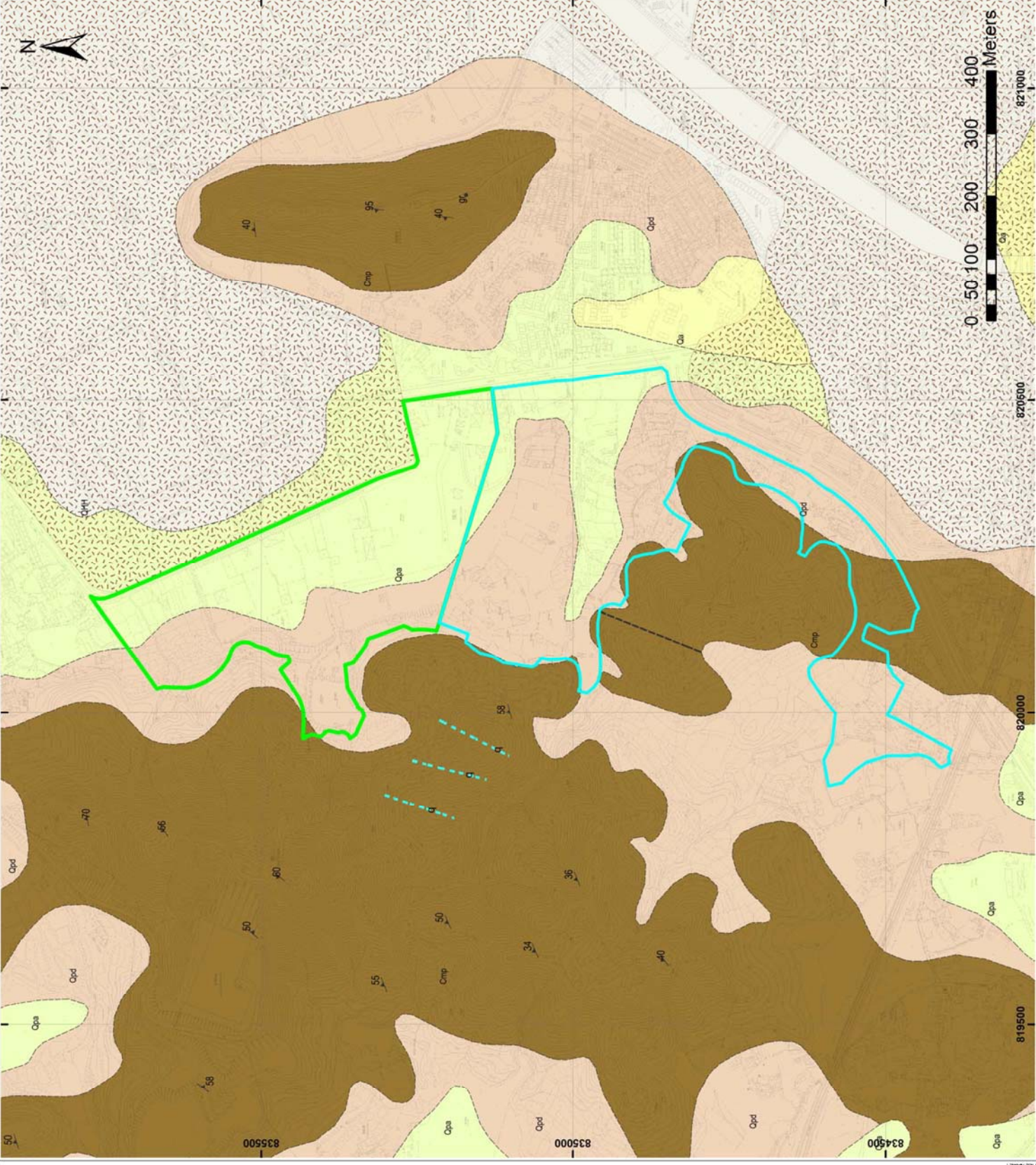
- Public Housing (PH) Site
- Yuen Long Industrial Estate Extension (YLIEE) Site

Geology

- Fill**
- Quaternary Alluvial Deposits (Clay/silt, sand and gravel; well-sorted to semi-sorted)
 - Quaternary Marine Deposits - Hang Hau Formation (Undivided, mainly dark grey marine mud)
 - Quaternary Terraced Alluvium (Clay/silt, gravelly sandy, well-sorted to semi-sorted)
 - Quaternary Debris Flow Deposits (Silt/sand, gravelly, clayey with cobbles and boulders; unsorted)
 - Carboniferous - Lok Ma Chau Formation (Metasiltstone and phyllite, with metasandstone)

Symbolism

- Jointing
- Fault, inferred
- Mineral Vein



Rev	Description	By	Date
0	Draft Report	JC	October 2013

ARUP

Project title
 Agreement No. CE20120293
 Planning and Engineering Study for the Public Housing Site
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title
 Solid and Superficial Geological Map -
 Extracted from HLGS 1:20,000 Geological Maps

Drawing no.	Figure 3.4.1	Rev.	0
Drawn	JC	Checked	JH
Date	October 2013	Approved	ST
Scale	1:6000 (A3)	Status	For Issue

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Solid Geology Map

- 1987 +3.66
- 3.00
- 4.00
- 6.50
- 8.50
- 9.00
- 9.30
- 11.50, 10

1987 +2.38
 grey, silty, sandy at base
 grey passing down to
 grey, silty (Qa)
 grey with wood fragments
 brown, clayey (Qd)
 base of hole

1987 +2.38
 to 2.50
 to 7.80
 to 7.95
 to 10.50
 at 42.50

SHAN
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 834500

820500
 820000

WANG CHAU
 Qd
 Qa

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0 100 200 400 Meters

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WANG CHAU
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0 100 200 400 Meters

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Legend

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

Note:
 1. See Figure 3.4.2b for map legend

Rev	Description	By	Date
0	Draft Report	JC	October 2013

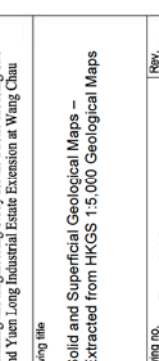
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Project title
 Agreement No. CE20120293
 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

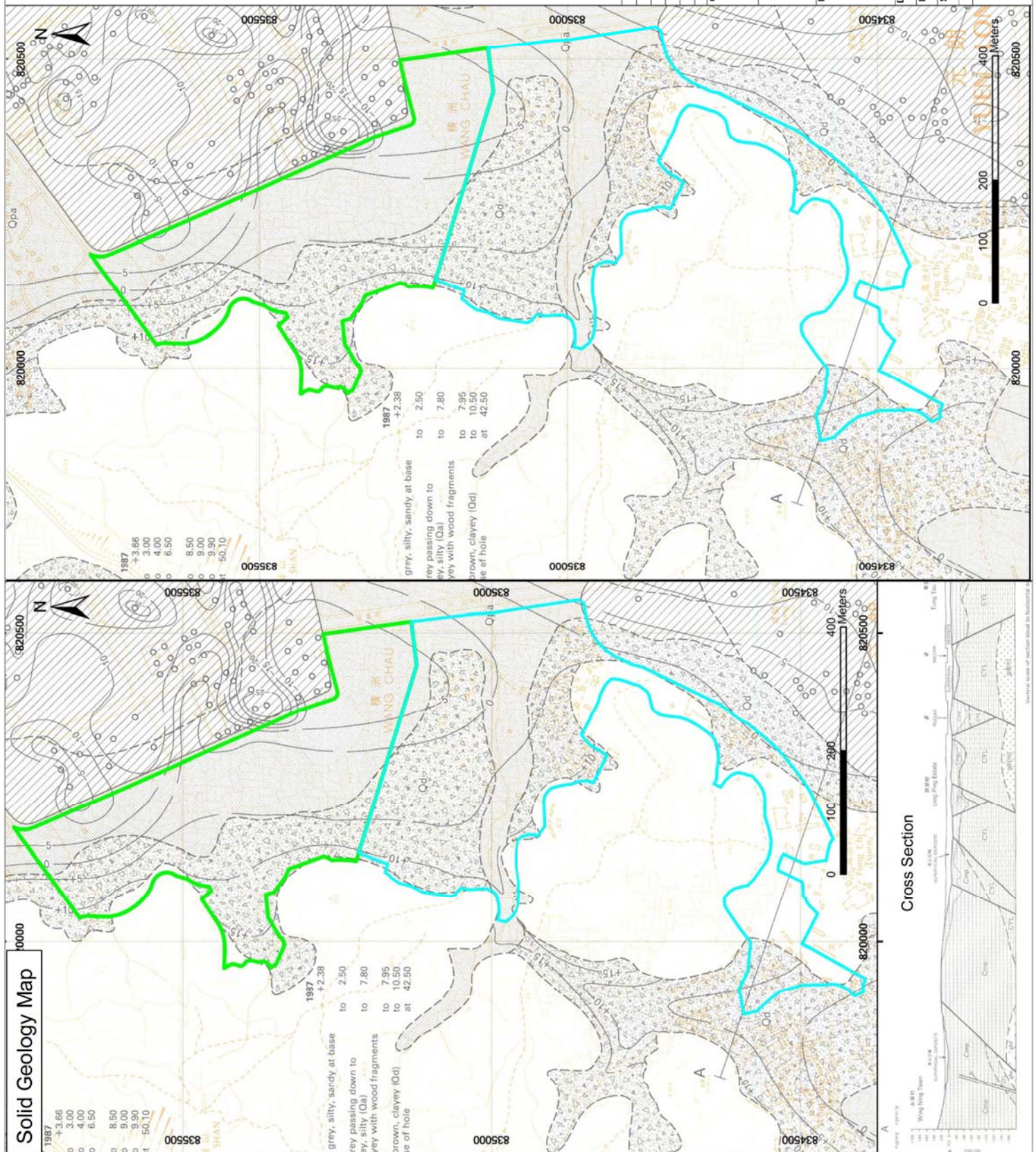
Drawing title
 Solid and Superficial Geological Maps –
 Extracted from HKGS 1:5,000 Geological Maps

Drawing no.	Figure 3.4.2a	Rev.
Drawn	JC	0
Checked	JH	
Approved	ST	

Date
 October 2013
 Scale
 1:6000 (A3) Geological Map
 1:10000 (A3) Cross Section
 For Issue
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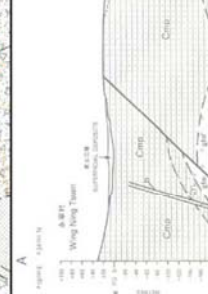
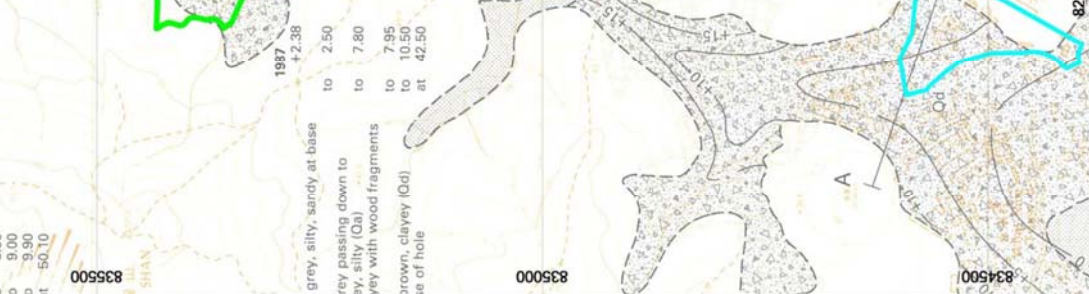
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Solid Geology Map

- 1987 +3.66
- 3.00
- 4.00
- 6.50
- 8.50
- 9.00
- 9.30
- 11 50.10

1987 +2.38
 grey, silty, sandy at base
 grey passing down to
 grey, silty (Qa)
 grey with wood fragments
 brown, clayey (Qd)
 base of hole



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

Note:
 1. See Figure 3.4.2b for map legend

Rev	Description	By	Date
0	Draft Report	JC	October 2013

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
 Solid and Superficial Geological Maps –
 Extracted from HKGS 1:5,000 Geological Maps

Drawing no.	Figure 3.4.2a	Rev.	0
Drawn	JC	Checked	JH
Date	October 2013	Approved	ST
Scale	1:6000 (A3) Geological Map 1:10000 (A3) Cross Section	Status	For Issue

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SOLID GEOLOGY 基岩地質

SEDIMENTARY AND VOLCANIC ROCKS 沉積岩和火山岩

NAMED ROCK DIVISIONS 特種岩類 / **PRINCIPAL ROCK TYPES/CHARACTERS 主要岩石類型/特種岩類**

MESOZOIC 中生界	UPPER JURASSIC 上侏羅統	REPUSE BAY VOLCANIC GROUP 深水灣火山岩組	Tai Mo Shan Formation, undivided 木橋山 (未分)	粗面安山岩類 (未分)	Coarse ash crystal tuff (metamorphosed) 粗面安山岩類 (未分)
	UPPER JURASSIC 上侏羅統		Tuen Mun Formation, Member 屯門	Uhw	變質的屯門凝灰岩類、粗面安山岩類及流紋岩類 (未分)
	UPPER JURASSIC 上侏羅統		Maui Po Member 茅洲	Cmp	千枚岩、變質砂岩及變質的頁岩和頁岩片岩
	UPPER JURASSIC 上侏羅統		Yuen Long Formation 元朗	Cyl	大理岩、互層的大理岩和粉砂岩
	UPPER JURASSIC 上侏羅統		Ma Tin Member 馬田	Cont	大理石、灰色至灰白色塊狀大理石、灰白色、塊狀

MAJOR INTRUSIVE IGNEOUS ROCKS 主要侵入火成岩

MESOZOIC TO TERTIARY 中生代至第三紀	CRETACEOUS 白堊紀	Granodiorite, metamorphosed in part 花崗閃長岩、部分變質	Andesite, metamorphosed 安山岩
		Basalt 輝綠岩	

MINOR INTRUSIVE IGNEOUS ROCKS 次要侵入火成岩 (缺省)

METAMORPHIC ROCKS 變質岩	(m) 變質的	Metamorphosed
	(sh) 片狀	Schistose

GEOLOGICAL LINES 地質界線

Geological boundary, solid rock 地質界線 (實線)	Geological boundary, solid rock	地質界線 (實線)
Fault (crossmark indicates downthrow side) 斷層 (橫線標記指示下盤)	Fault (crossmark indicates downthrow side)	斷層 (橫線標記指示下盤)
Trinost fault (barbs on upper plate) 逆斷層 (上盤有齒)	Trinost fault (barbs on upper plate)	逆斷層 (上盤有齒)
Contours on base of completely weathered rock, in metres relative to P.D. 完全風化岩石的等高線 (以相對於 P.D. 的米為單位)	Contours on base of completely weathered rock, in metres relative to P.D.	完全風化岩石的等高線 (以相對於 P.D. 的米為單位)

STRUCTURAL SYMBOLS 構造符號

Bedding 層理	Bedding	層理
Foliation 葉理	Foliation	葉理
Jointing 節理	Jointing	節理

All dips and plunges measured in degrees from horizontal. 所有傾角和傾伏角均以水平位置量計

BOREHOLE SYMBOLS 鑽孔符號

Borehole proving marble 探明有大理石之鑽孔	Borehole proving marble	探明有大理石之鑽孔
Borehole proving marble with cavities beneath the Karst Zone 探明有溶洞之有裂隙的大理岩之鑽孔	Borehole proving marble with cavities beneath the Karst Zone	探明有溶洞之有裂隙的大理岩之鑽孔
Borehole proving strata other than marble 探明有非大理石之鑽孔	Borehole proving strata other than marble	探明有非大理石之鑽孔

SUPERFICIAL DEPOSITS 表土沉積

GENETIC CLASSIFICATION OR NAMED DIVISIONS 成因類型或地層名稱

PRINCIPAL MATERIALS 主要物質成份

Fill 填土	Natural earth and waste 天然地質廢物
Alluvium 沖積物	Clay/silt, sand gravel, well-sorted to semi-sorted 粘土/粉砂、砂和礫石
Beach deposits 海灘沉積	Sand 砂
HANG HAU FORMATION 坑口組	Undivided, mainly dark grey marine mud 未分層，主要是深灰色海洋泥
Debris flow deposits 堆積、洪積物	Unsorted sand, gravel, cobbles and boulders; clay/silt matrix 未分層的砂、碎石、漂石、礫石及塊石；粘土/粉砂質
Terraced alluvium 階地沖積物	Clay/silt, gravelly sandy, well-sorted to semi-sorted 粘土/粉砂、砂質砂、分層良好至中等的
Debris flow deposits 堆積、洪積物	Silt/sand, clayey with cobbles and boulders; unsorted 粉砂/砂、粘土質粉砂/砂和礫石、未分層

SOLID GEOLOGY 基岩地質

Not shown; refer to Solid Geology Map. 有關基岩地質資料，請參閱基岩地質圖。

GEOLOGICAL LINES 地質界線

Geological boundary, superficial deposit 地質界線 (虛線)	Geological boundary, superficial deposit	地質界線 (虛線)
Fill boundary, with limit of reclamation at date shown 填土界線 (以填土日期為限)	Fill boundary, with limit of reclamation at date shown	填土界線 (以填土日期為限)
Contours on the base of the superficial deposits in metres relative to P.D.; crossmarks indicate deep side of closer contours 表土沉積物基部的等高線 (以相對於 P.D. 的米為單位); 橫線標記指示較近的等高線深側	Contours on the base of the superficial deposits in metres relative to P.D.; crossmarks indicate deep side of closer contours	表土沉積物基部的等高線 (以相對於 P.D. 的米為單位); 橫線標記指示較近的等高線深側

Broken lines on map face denote uncertainty. 圖內虛線表示地質界線

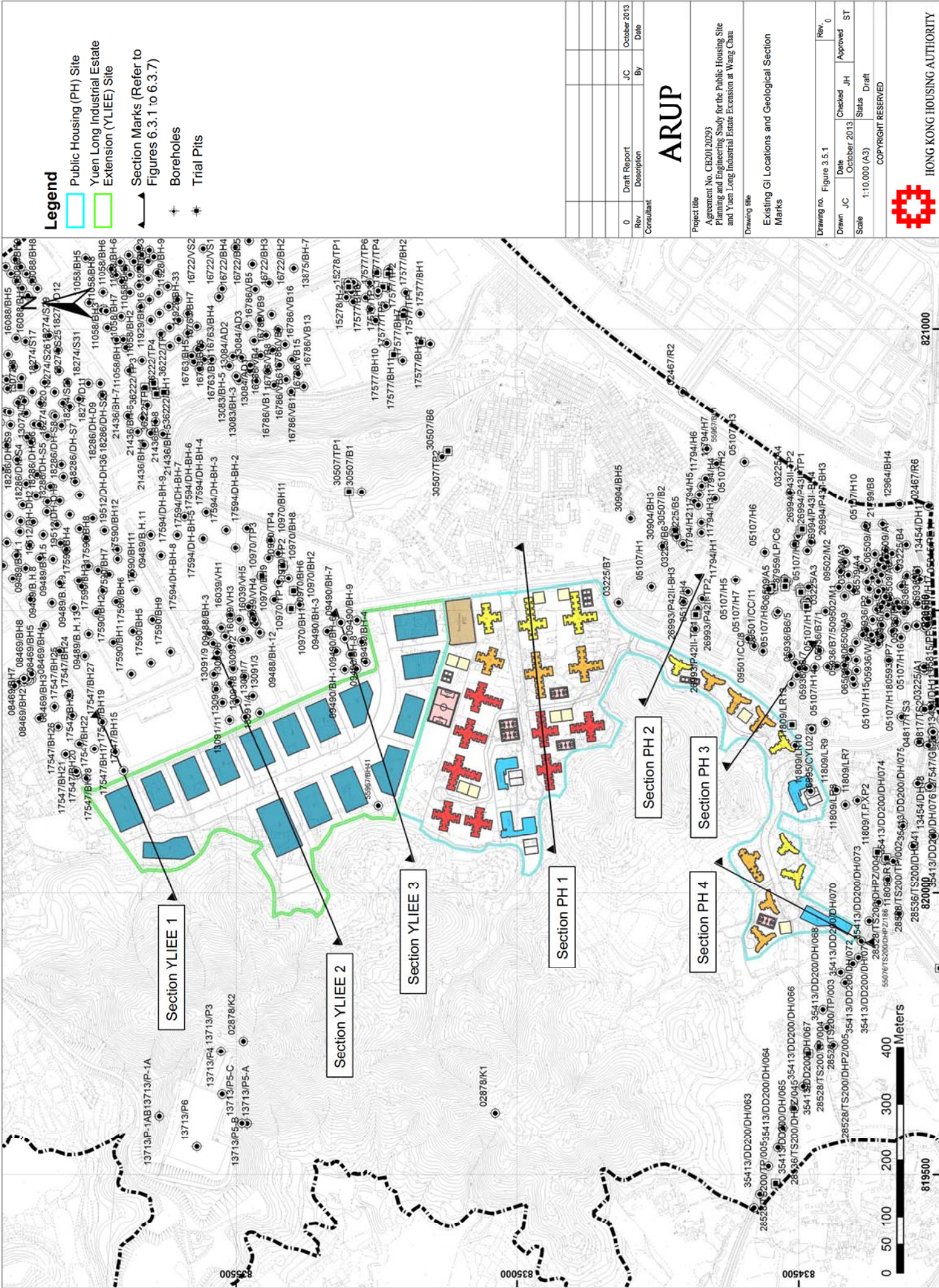
BOREHOLE SYMBOLS 鑽孔符號

Borehole proving superficial deposits 探明有表土沉積的鑽孔

ARUP

Project title 項目名稱	Agreement No. CB201/20293 Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau		
Drawing title 圖名	Solid and Superficial Geological Maps Legend - Extracted from HKGS 1:5,000 Geological Maps		
Drawing no. 圖號	Figure 3.4.2b	Rev. 修訂	C
Drawn 繪圖	JC	Checked 校核	JH
Date 日期	October 2013	Approved 核准	ST
Scale 比例尺		Status 狀態	For Issue
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Rev	Description	By	Date
0	Draft Report	JC	October 2013

Drawn	Checked	Approved	ST
JC	October 2013	JH	Draft



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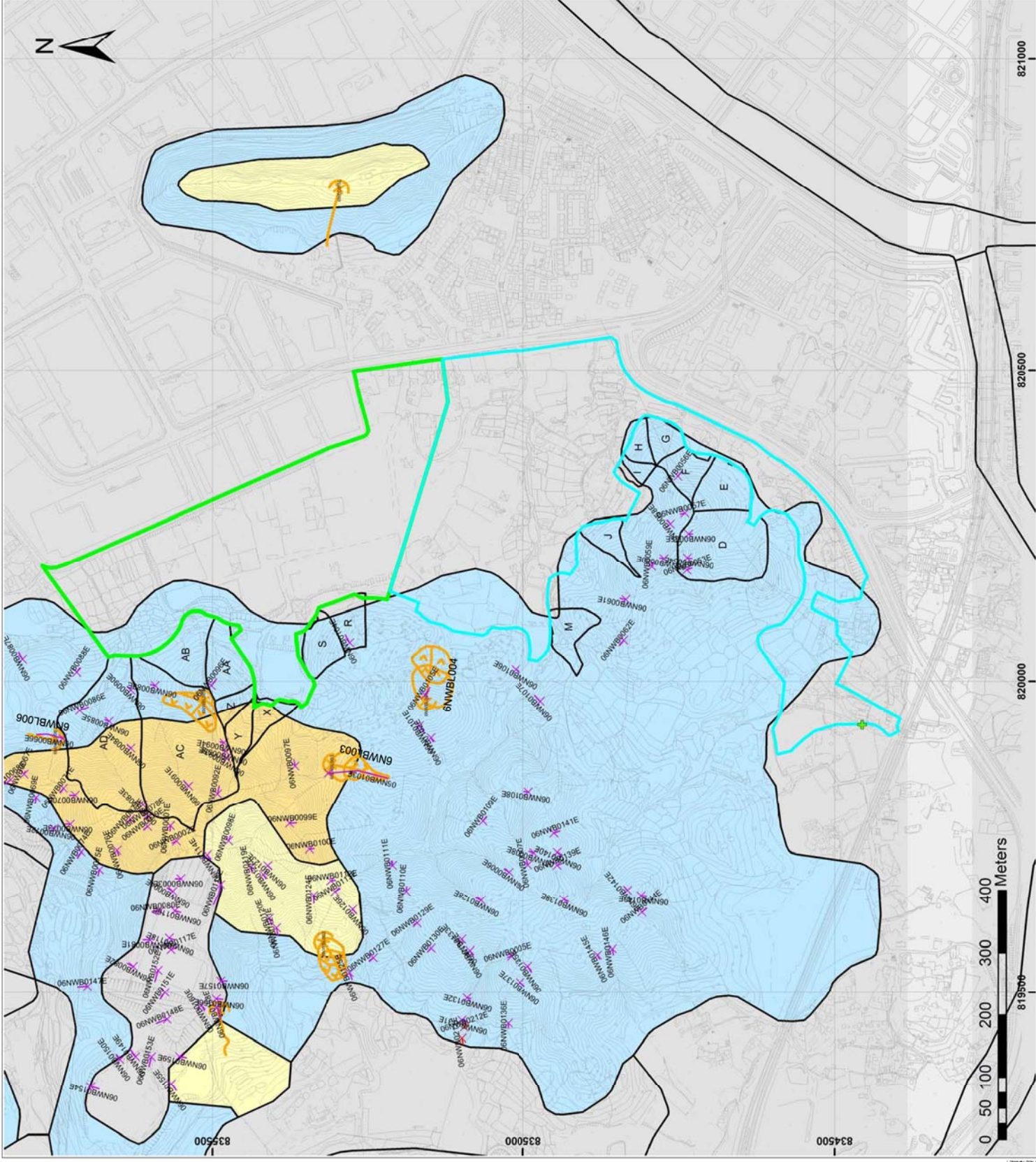
898000

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900000



Legend

- Public Housing (PH) Site
- Yuen Long Industrial Estate Extension (YLIEE) Site
- NTHS Study Catchments
- Large Landslide Dataset
- Large Landslide Study
- Natural Terrain Landslide Inventory (ENTLI)
- + Relict
- x Recent
- Boulder Coverage**
- No boulders recorded
- Less than 10%
- 10% - 20%
- 20% - 50%
- 50% - 75%
- More than 75%
- No boulder observed on ground surface
- Land surface obscured by vegetation
- Area not covered by low level aerial photograph

Rev	Description	By	Date
0	Draft Report	JC	October 2013

ARUP

Project title
 Agreement No. CE20120293
 Planning and Engineering Study for the Public Housing Site
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title
 Boulder Field Inventory and GU Past Instability
 Locations

Drawing no.	Figure 3.6.1	Rev.	0
Drawn	JC	Checked	JH
Date	October 2013	Approved	ST
Scale	1:6000 (A3)	Status	For Issue

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82-1000

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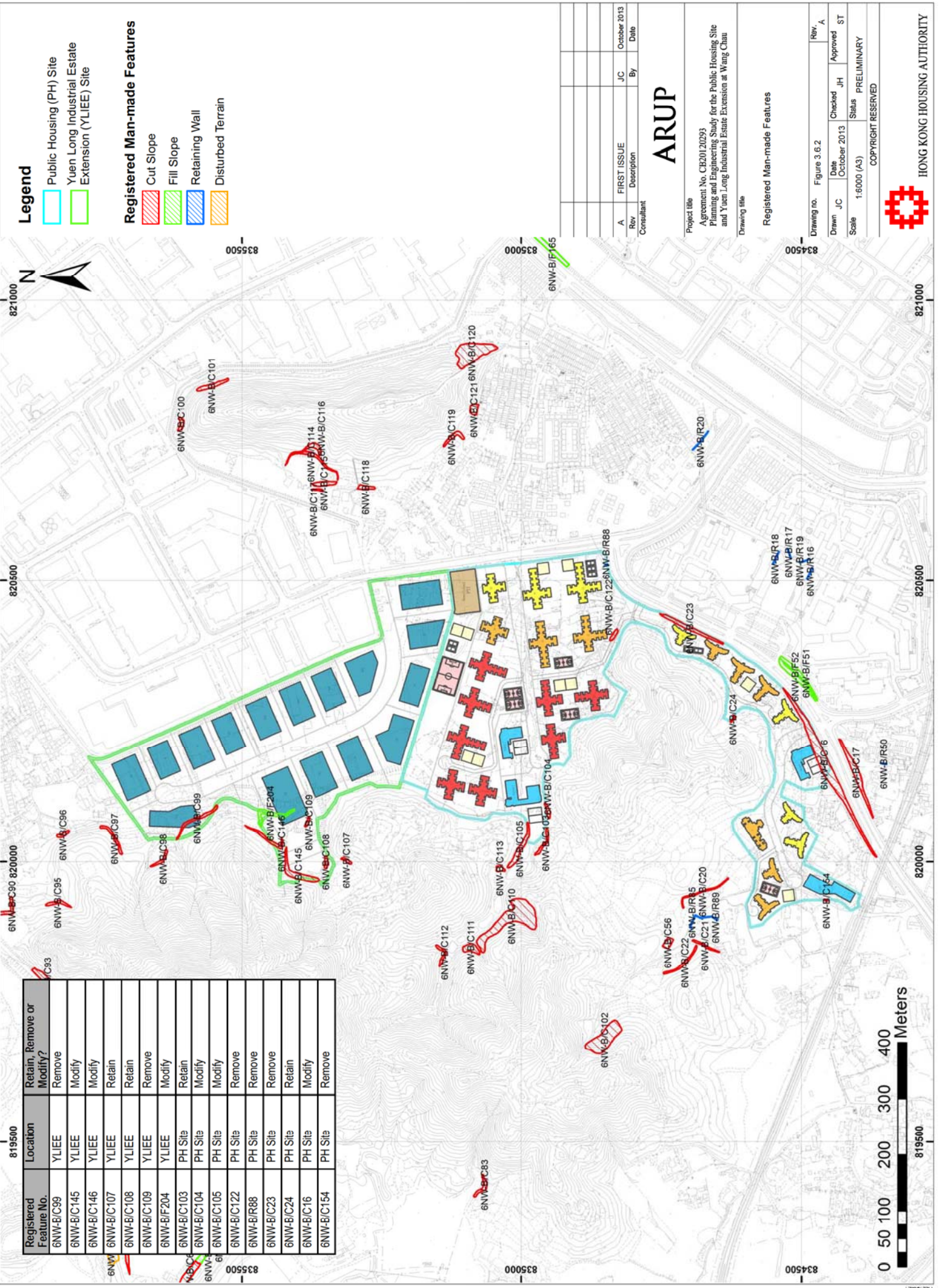
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Legend

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

Registered Man-made Features

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

Registered Feature No.	Location	Retain, Remove or Modify?
6NW-B/C39	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

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A	FIRST ISSUE	JC	October 2013

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Project title
 Agreement No. CE20120293
 Planning and Engineering Study for the Public Housing Site
 and Yuen Long Industrial Estate Extension at Wang Chau

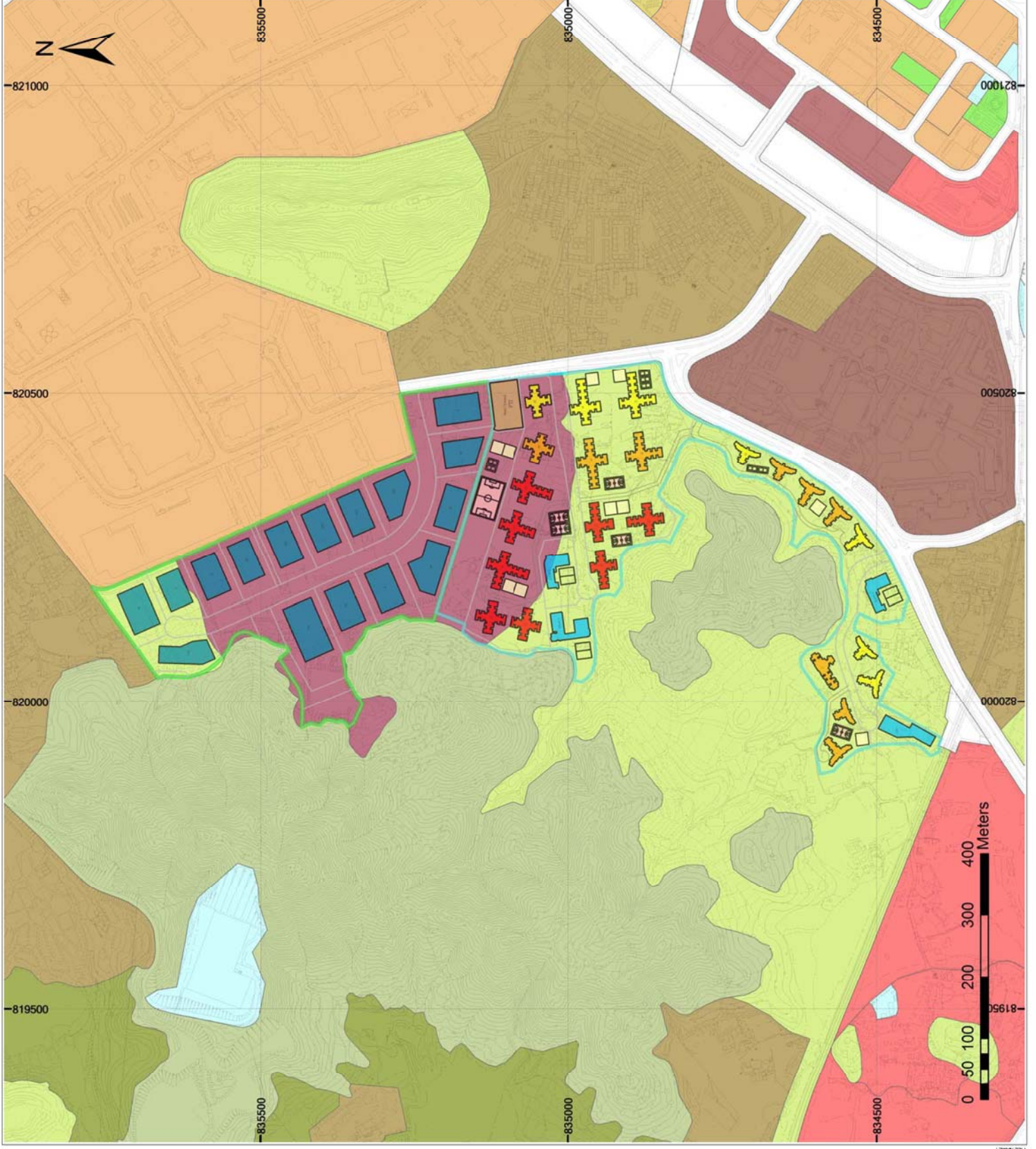
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A	JH	PRELIMINARY

Figure 3.6.2
 Date: October 2013
 Scale: 1:6000 (A3)
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Legend

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

Zoning

- Comprehensive Development Area
- Conservation Area
- Government/ Institution/ Community
- Green Belt
- Open Space
- Open Storage
- Other Specified Uses
- Recreation
- Residential (Group A)
- Residential (Group D)
- Residential (Group E)
- Village Type Development

Rev	Description	By	Date
A	FIRST ISSUE	JC	October 2013

ARUP

Project title
 Agreement No. CE20120293
 Planning and Engineering Study for the Public Housing Site
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title
 (Extract from Ping Shan and Yuen Long Outline
 Zoning Plan (OZP) No. SYL-PS14 and
 No. SYLU17)

Drawing no.	Figure 3.7.1	Rev.	A
Drawn	JC	Checked	JH
Date	October 2013	Approved	ST
Scale	1:6000 (A3)	Status	PRELIMINARY
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Legend

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

BH03(E,P) BH Located on Government Land
(P) indicates that ground water monitoring installation is required. E indicates that environmental sampling is required)

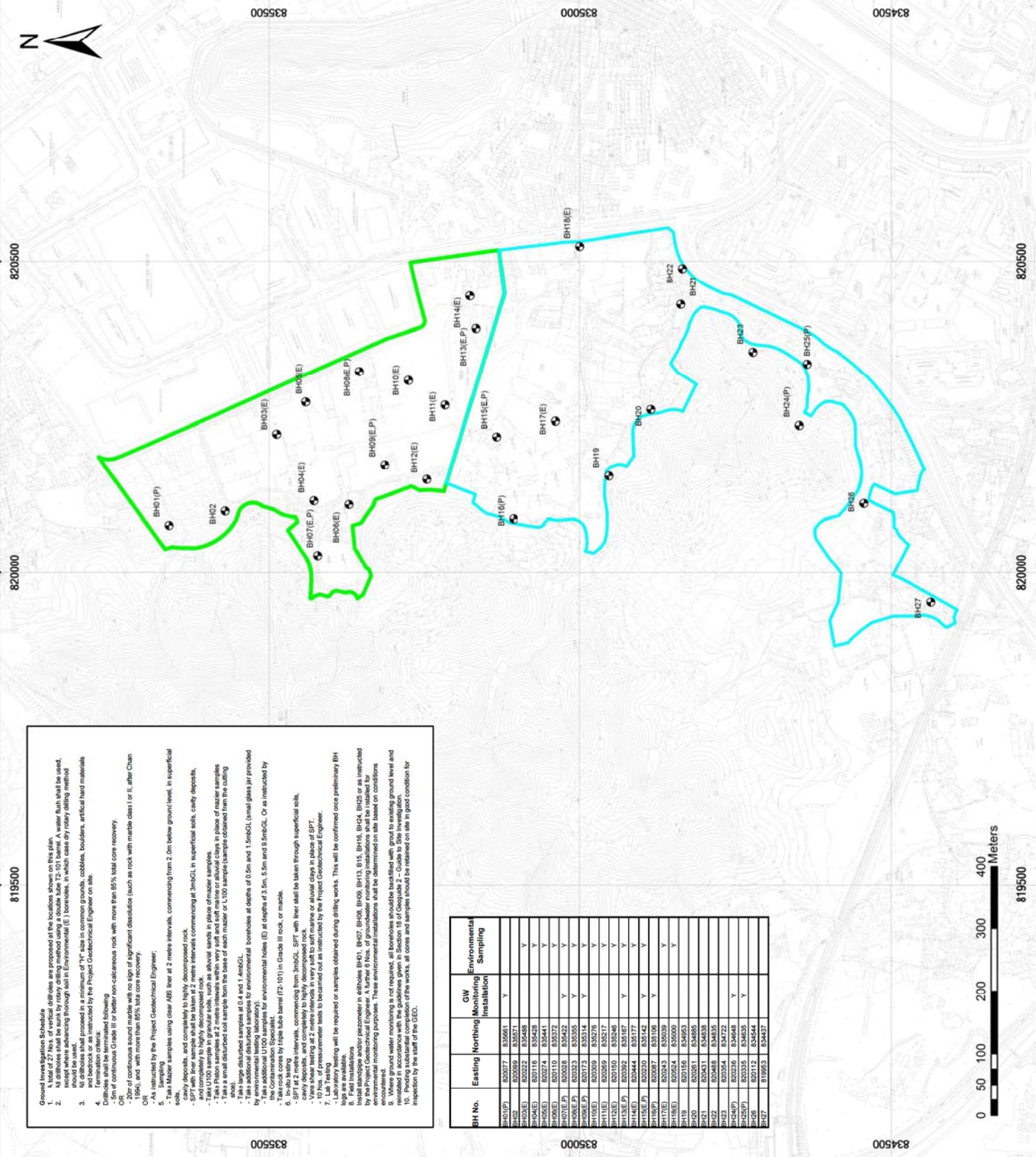
0	Draft Report	JC	October 2013
Rev	Description	By	Date

ARUP

Project title
Agreement No. CE20120293
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title
Proposed Borehole Location Plan (Phase 1)

Drawing no.	Figure 5.1.1	Rev.	0
Drawn	Date	Checked	Approved
JC	October 2013	JH	ST
Scale	1:6000 (A3)		
Status For Issue			
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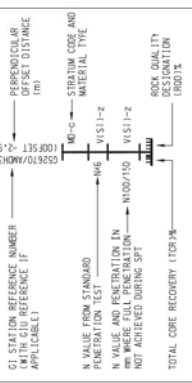


Ground Investigation Schedule

- At all locations where boreholes are proposed at the locations shown on this plan, the following shall be undertaken by rotary drilling method using a double tube 75-100 bore. A water flush shall be used, except where advancing through soil in Environmental (E) boreholes, in which case dry rotary drilling method shall be used.
- All boreholes shall proceed to a minimum of 1m into common grounds, cobbles, boulders, artificial hard materials and bedrock or as instructed by the Project Geotechnical Engineer on site.
- Termination criteria shall be as follows:
 - 5m of continuous Grade III or better non-calcareous rock with more than 85% total core recovery.
 - 15m, and with more than 85% total core recovery.
- As instructed by the Project Geotechnical Engineer.
- Take Mazur samples using clear ABS liner at 2 metre intervals, commencing from 2.0m below ground level, in superficial soils.
- Take Mazur samples, and completely to highly decomposed rock.
- SPT with liner sample shall be taken at 2 metre intervals commencing at 3mBGL in superficial soils, cavity deposits, and completely to highly decomposed rock.
- Take 100 sample in granular soils, such as gravel sands in place of regular samples.
- Take a small disturbed soil sample from the base of each maser or L100 sample (sample obtained from the cutting show).
- Take additional disturbed samples for environmental boreholes at depths of 0.5m and 1.5mBGL (small glass jar provided by environmental testing laboratory).
- The consumption 100 samples for environmental holes (E) at depths of 3.5m, 5.5m and 1.5mBGL. Or as instructed by the Project Geotechnical Engineer.
- In situ testing intervals, commencing from 3mBGL. SPT with liner shall be taken through superficial soils, cavity deposits, and completely to highly decomposed rock.
- Vane shear testing at 2 metre intervals in very soft to soft marine or alluvial clays in place of SPT.
- LA Test: permeability tests to be carried out as instructed by the Project Geotechnical Engineer.
- Laboratory testing will be required on samples obtained during drilling works. This will be confirmed once preliminary BH logs are available.
- BH01, BH02, BH03, BH04, BH05, BH06, BH07, BH08, BH09, BH10, BH11, BH12, BH13, BH14, BH15, BH16, BH17, BH18, BH19, BH20, BH21, BH22, BH23, BH24, BH25, BH26, BH27 or as instructed by the Project Geotechnical Engineer. A further 6 Nos. of groundwater monitoring installations shall be installed for environmental monitoring purposes. These environmental installations shall be determined on site based on conditions encountered.
- Where ground water monitoring is not required, all boreholes should be backfilled with grout to existing ground level and reinstated in accordance with the guidelines given in Section 16 of Geoguide 2 - Guide to Site Investigation.
- At the end of the works, all cores and samples should be retained on site in good condition for inspection by the staff of the GEO.

BH No.	Existing	Northing	Monitoring Installation	CW	Environmental Sampling
BH01(P)	820077	835661	Y		
BH02	820059	835071		Y	
BH03(E)	820222	835488		Y	
BH04(E)	820116	835428		Y	
BH05(E)	820274	835441		Y	
BH06(E)	820110	835372		Y	
BH07(E,P)	820028	835522	Y		
BH08(E,P)	820028	835522	Y		
BH09(E,P)	820173	835314	Y		
BH10(E)	820009	835278	Y		
BH11(E)	820059	835217	Y		
BH12(E)	820150	835246	Y		
BH13(E,P)	820092	835167	Y		
BH14(E)	820444	835177	Y		
BH15(E,P)	820230	835142	Y		
BH16(E)	820037	835106	Y		
BH17(E)	820543	835039	Y		
BH18(E)	820156	834863	Y		
BH19	820081	834805			
BH20	820431	834638			
BH21	820488	834635			
BH22	820488	834635			
BH23	820254	834722			
BH24(P)	820236	834648	Y		
BH25(P)	820335	834635	Y		
BH26	820112	834644			
BH27	819953	834637			

LEGEND :



NOTES :

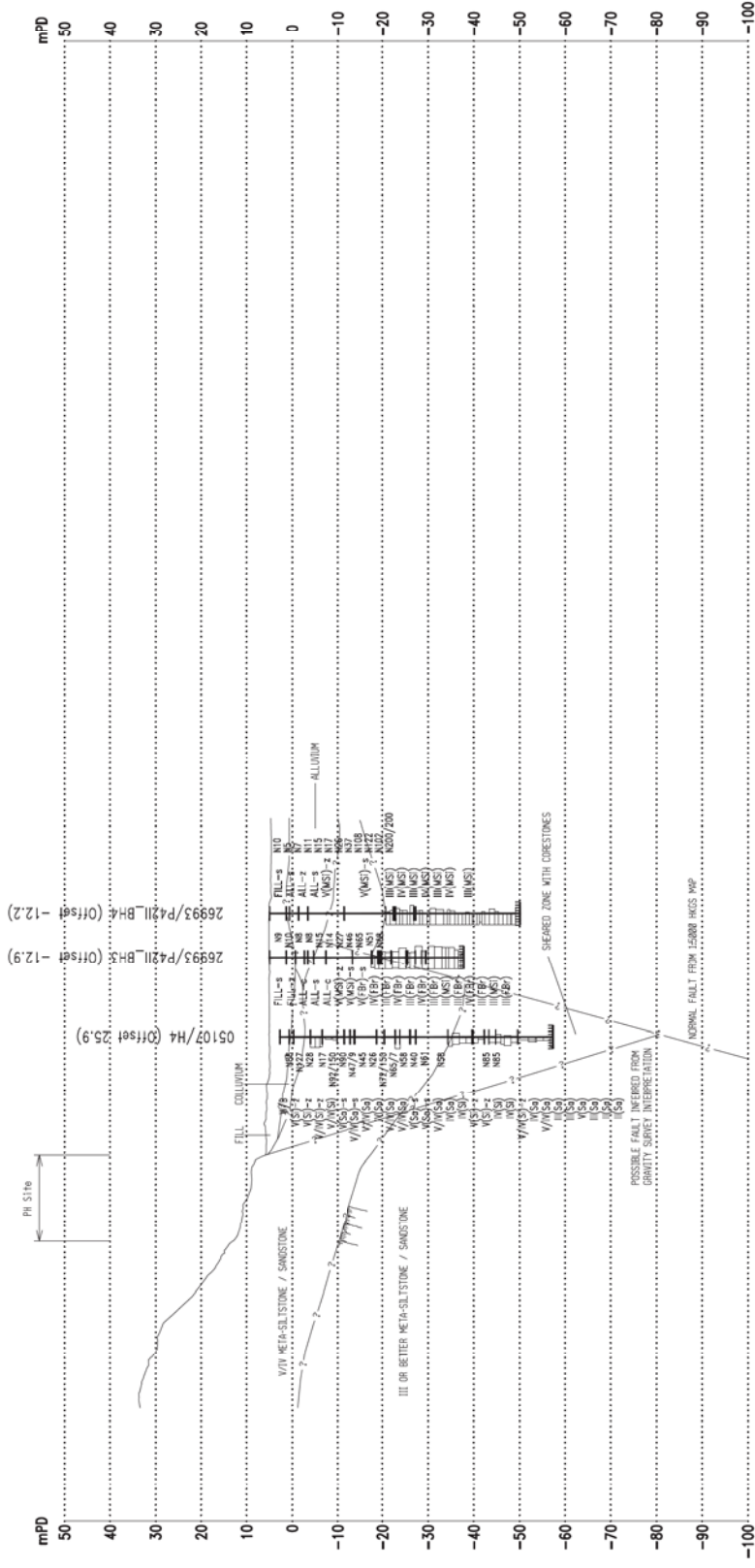
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 (OFFSET -2.90) MEANS 2.9m OFFSET IN FRONT OF THE CROSS SECTION

BOUNDARIES :



STRATUM CODE : MATERIAL TYPES

- SUPERFICIAL GEOLOGY**
- FILL FILL
 - MD MARINE DEPOSITS
 - COL COLLOIDAL
 - DFD DEBRIS FLOW DEPOSITS
 - ED ESTUARINE DEPOSITS
 - ALL ALLUVIUM
- SOLID GEOLOGY**
- NR NO RECOVERY
 - VI(....) RESIDUAL SOIL
 - IV(....) COMPLETELY DECOMPOSED
 - III(....) MODERATELY DECOMPOSED
 - II(....) SLIGHTLY DECOMPOSED
 - I(....) FRESH
 - FBR FAULT BRECCIA
 - ... (Rh) RHYOLITE
 - ... (Sd) SANDSTONE
 - ... (MSd) META-SANDSTONE
 - ... (St) SILTSTONE
 - ... (MSt) META-SILTSTONE
 - ... (Ms) MUDSTONE
 - ... (M) MARBLE
 - ... (Ph) PHYLLITE
- MATERIAL TYPES**
- C CLAY
 - CZ CLAY/SILT
 - S SAND
 - G COBBLES
 - Z SILT
 - g GRAVEL
 - d BOULDERS



Section PH 2
 SCALE H= 1:2000
 V= 1:1000

NOTES:
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Rev	Description	By	Date
A	FIRST ISSUE	GL	08/13

Consultant

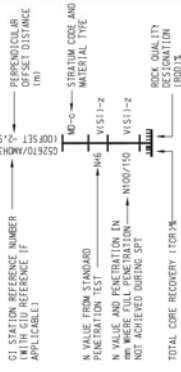
Project title
 Agreement No. CB20120293
 Planning and Engineering Study for the Public Housing Site
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing no.	Figure 6.3.2	Rev.	-
Drawn	GL	Checked	IL
Date	08/13	Approved	ST
Scale	AS SHOWN	Status	PRELIMINARY
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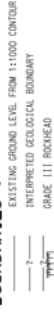
LEGEND :



NOTES :

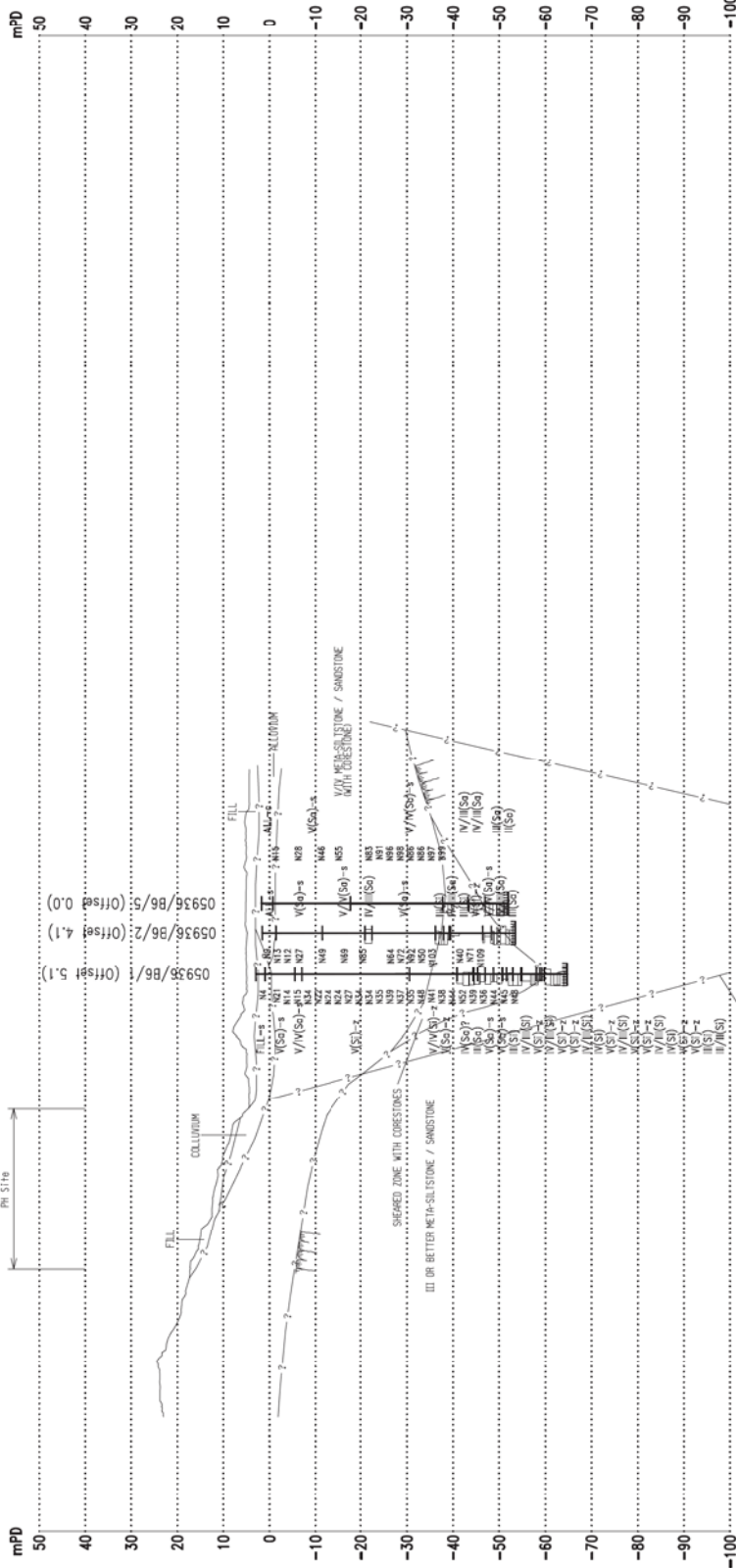
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BOUNDARIES :



STRATUM CODE : MATERIAL TYPES

- SUPERFICIAL GEOLOGY**
- FZ FILL
 - MD MARINE DEPOSITS
 - CD COLLUVIUM
 - DFD DEBRIS FLOW DEPOSITS
 - ED ESTUARINE DEPOSITS
 - AL ALLOUVIUM
- SOLID GEOLOGY**
- NR NO RECOVERY
 - VI(....) RESIDUAL SOIL
 - VI(....) COMPLETELY DECOMPOSED
 - IV(....) HIGHLY DECOMPOSED
 - III(....) MODERATELY DECOMPOSED
 - II(....) SLIGHTLY DECOMPOSED
 - I(....) FRESH
 - FR FULT BRECCIA
 - RY RHYOLITE
 - SA SANDSTONE
 - MS(MS) META-SANDSTONE
 - SI(SI) SILTSTONE
 - MSI(MSI) META-SILTSTONE
 - MS(MS) MUDSTONE
 - M(M) MARBLE
 - PH(PH) PHYLLITE
- MATERIAL TYPES**
- C CLAY
 - CZ CLAY/SILT
 - S SAND
 - G COBBLES
 - Z GRAVEL
 - G SILT
 - G BOULDERS



Section PH 3
SCALE H= 1:2000
V= 1:1000

NOTES:
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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

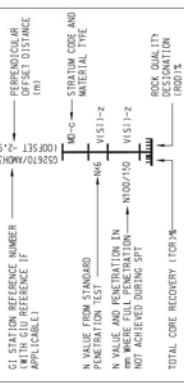
Drawing title
Geotechnical Feasibility and Site Formation Assessment
Section PH 3

Drawing no.	Figure 6.3.3	Rev.	-
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LEGEND :



NOTES :

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 - III(....) HIGHLY DECOMPOSED
 - II(....) MODERATELY DECOMPOSED
 - I(....) SLIGHTLY DECOMPOSED
 - FRESH
 - FBF FAULT BRECCIA
 - ... (RR) RHYOLITE
 - ... (Sd) SANDSTONE
 - ... (MSd) META-SANDSTONE
 - ... (S1) SILTSTONE
 - ... (MS1) META-SILTSTONE
 - ... (Ms) MUDSTONE
 - ... (M) MARBLE
 - ... (Ph) PHYLLITE
- FILL**
- CLAY
 - CLAY/SILT
 - SAND
 - COBBLES
 - SILT
 - GRAVEL
 - BOULDERS
- DEBRIS FLOW DEPOSITS**
- Z
 - G
 - D
- ESTUARINE DEPOSITS**
- Z
 - G
 - D
- ALLOIUM**
- Z
 - G
 - D

SOLID GEOLOGY

- NR NO RECOVERY
- VI(....) RESIDUAL SOIL
- IV(....) COMPLETELY DECOMPOSED
- III(....) HIGHLY DECOMPOSED
- II(....) MODERATELY DECOMPOSED
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- FRESH
- FBF FAULT BRECCIA
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- ... (Sd) SANDSTONE
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- ... (MS1) META-SILTSTONE
- ... (Ms) MUDSTONE
- ... (M) MARBLE
- ... (Ph) PHYLLITE

Rev	Description	By	Date
A	FIRST ISSUE	GL	08/13

ARUP

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

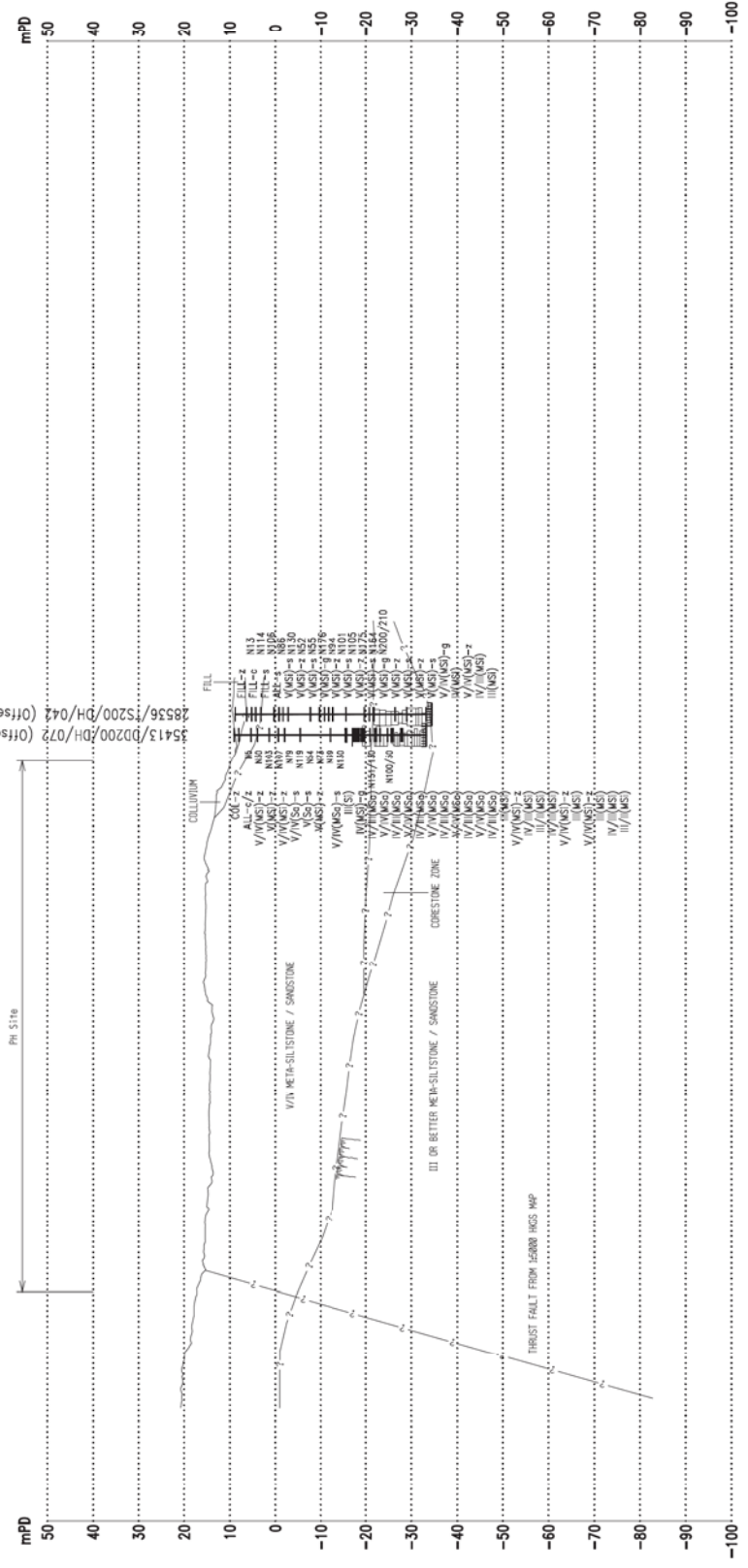
Drawing title
Geotechnical Feasibility and Site Formation Assessment
Section PH 4

Drawing no.	Figure 6.3.4	Rev.	-
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Date	08/13	Approved	ST
Scale	AS SHOWN	Status	PRELIMINARY

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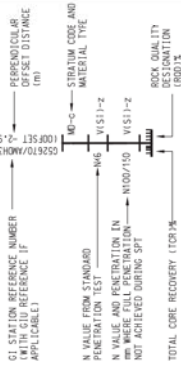
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Section PH 4
SCALE H= 1:2000
V= 1:1000

NOTES:
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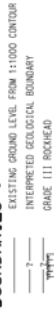
LEGEND :



NOTES :

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BOUNDARIES :

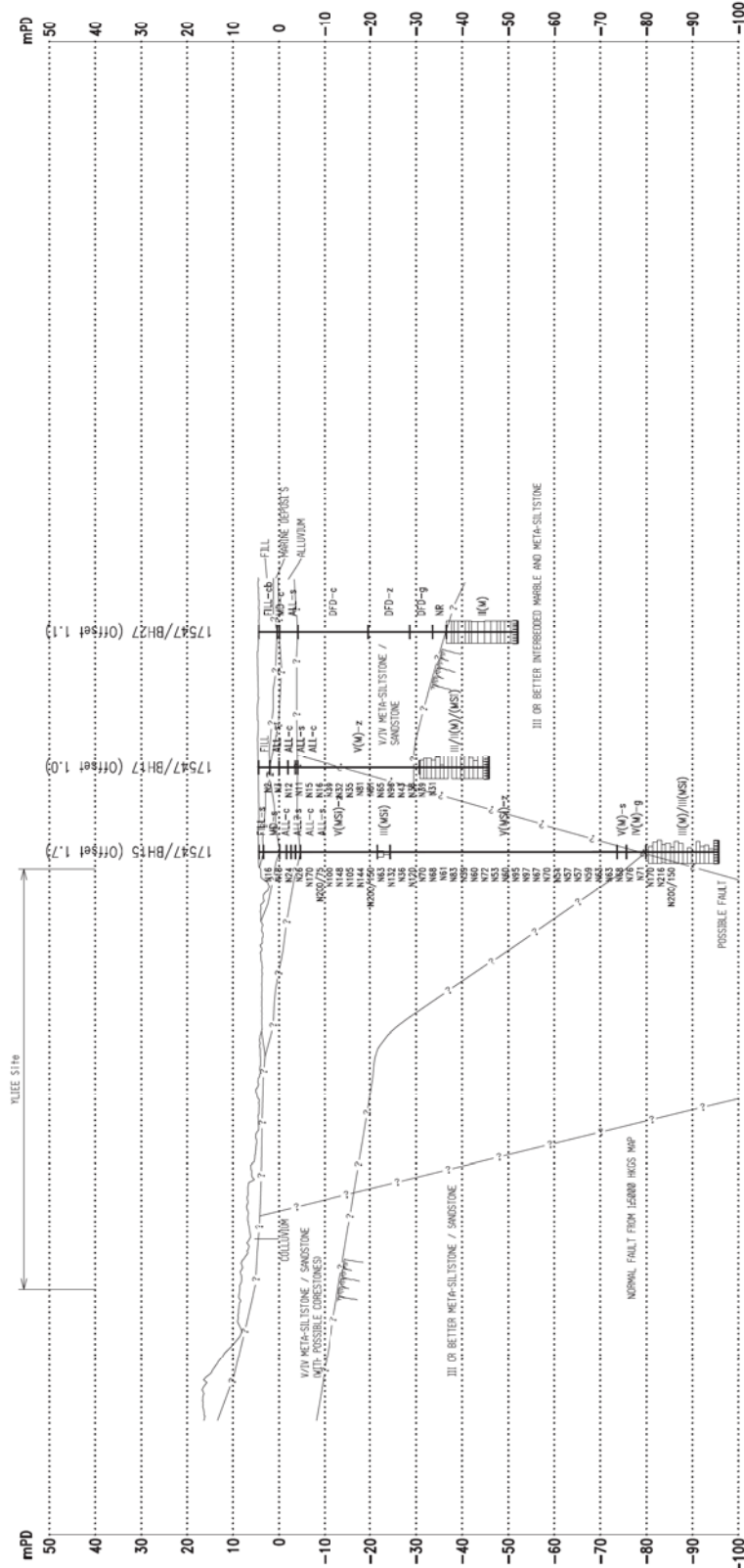


STRATUM CODE :

- SUPERFICIAL GEOLOGY**
- FI FILL
 - MD MARINE DEPOSITS
 - CD COLLOIDAL CLAY
 - DFD DEBRIS FLOW DEPOSITS
 - ED ESTUARINE DEPOSITS
 - ALL ALLOUVIUM
- MATERIAL TYPES**
- C CLAY
 - CZ CLAY/SILT
 - S SAND
 - CO COBBLES
 - Z SILT
 - G GRAVEL
 - B BOULDERS

SOLID GEOLOGY

- NR NO RECOVERY
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- I(....) SLIGHTLY DECOMPOSED
- F FRESH
- FBR FAULT BRECCIA
- RY RHYOLITE
- S SANDSTONE
- MS(MS) META-SANDSTONE
- SI(SI) SILTSTONE
- MSI(MSI) META-SILTSTONE
- MS(MS) MUDSTONE
- M(M) MARBLE
- PH(PH) PHYLLITE



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Section YLIEE 1
SCALE H = 1:2000
V = 1:1000

ARUP

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

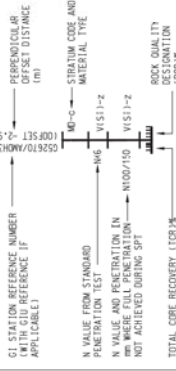
Drawing title
Geotechnical Feasibility and Site Formation Assessment
Section YLIEE 1

Drawing no.	Figure 6.3.5	Rev.	-
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Date	08/13	Approved	ST
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LEGEND :



NOTES :

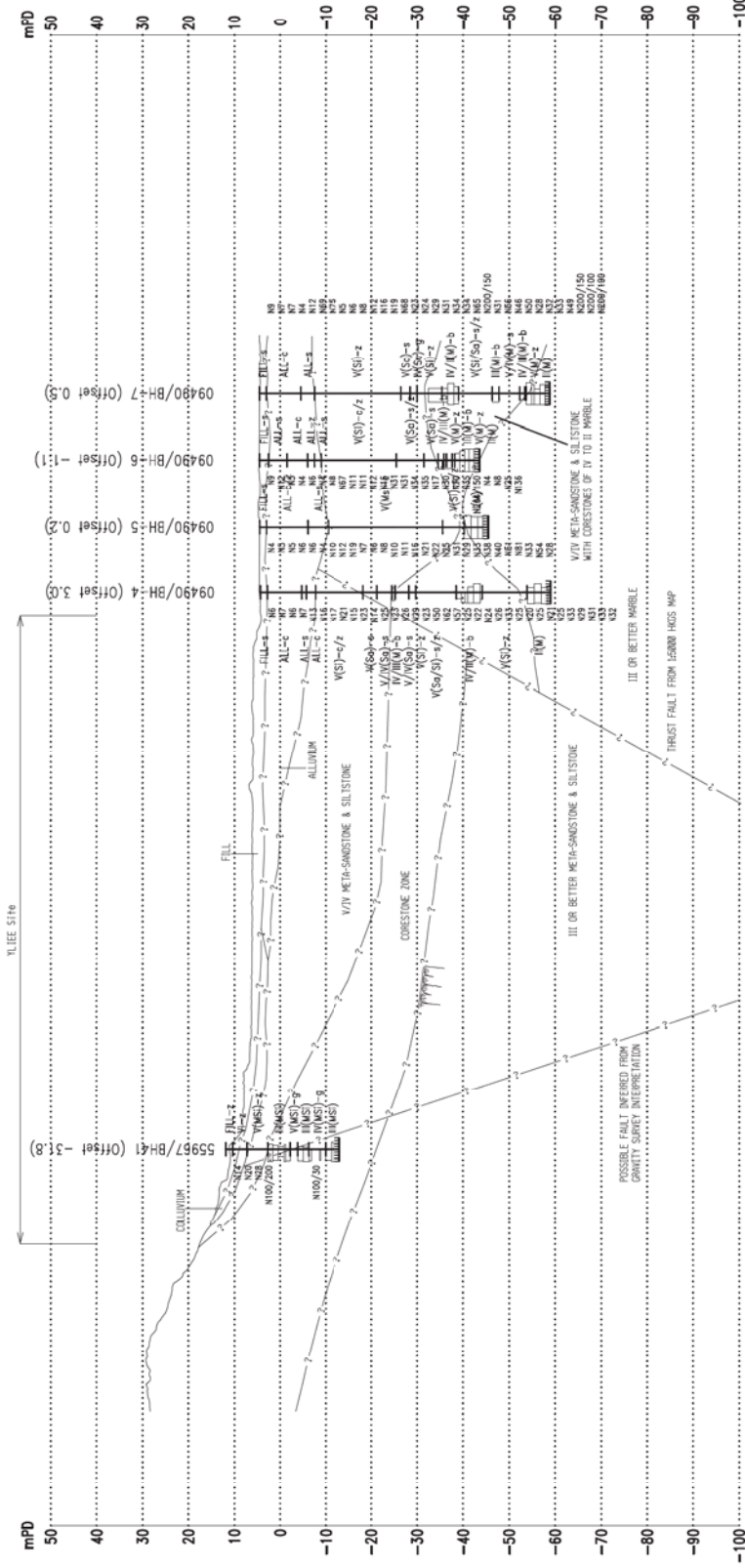
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BOUNDARIES :



STRATUM CODE : MATERIAL TYPES

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- FI FILL
 - MD MARINE DEPOSITS
 - CD COLLUVIUM
 - DFD DEBRIS FLOW DEPOSITS
 - ES ESTUARINE DEPOSITS
 - AL ALLUVIUM
- SOLID GEOLOGY**
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 - I(....) FRESH
 - FBF FAULT BRECCIA
 - RY RHOLYITE
 - SA SANDSTONE
 - MS(MS) META-SANDSTONE
 - SI(SI) SILTSTONE
 - MS(MS) META-SILTSTONE
 - MS(MS) MUDSTONE
 - M(M) MARBLE
 - PH(PH) PHYLLITE
- MATERIAL TYPES**
- C CLAY
 - CLAY/SILT
 - S SAND
 - COBLES
 - SILT
 - Z GRAVEL
 - G GRAVEL
 - B BOULDERS



Section YLIEE 3
SCALE H= 1:2000
V= 1:1000

NOTES:
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ARUP

Project title
Geotechnical Feasibility and Site Formation Assessment
Section YLIEE 3
Agreement No. CB20120293
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

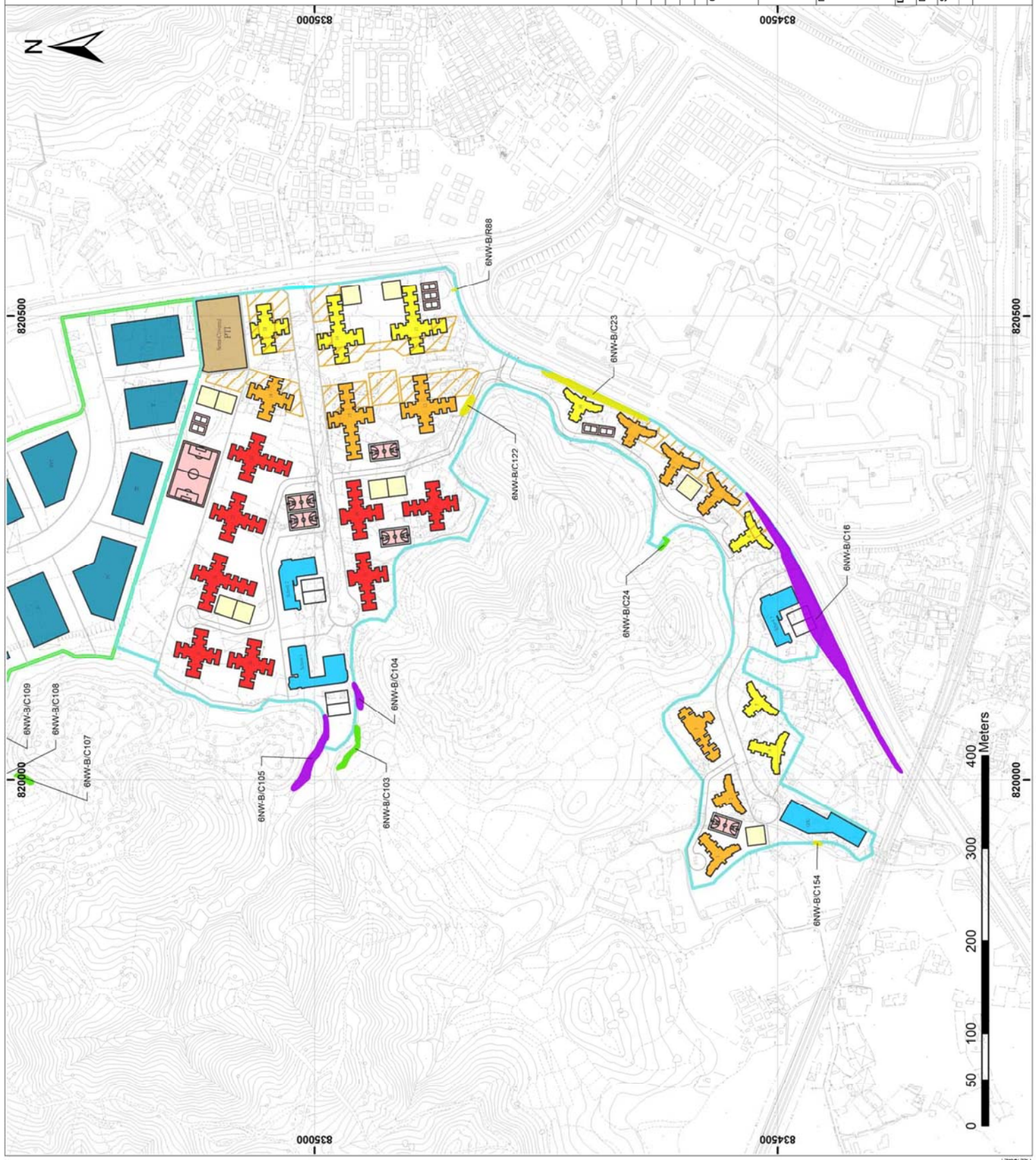
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Drawn	GL	Date	08/13
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HONG KONG HOUSING AUTHORITY

Legend

-  Public Housing (PH) Site
 -  Yuen Long Industrial Estate Extension (YLIEE) Site
 -  Proposed Retail Development
- Risk/Impact on Proposed Development**
-  Slope to be retained – no significant risk (Further Assessment Required to Confirm)
 -  Slope to be modified during site formation (Further Assessment Required to Confirm)
 -  Slope to be removed (No Further Assessment Required to Confirm)



Rev	Description	By	Date
0	Draft	JC	October 2013

ARUP

Project title
 Agreement No. CE20120293
 Planning and Engineering Study for the Public Housing Site
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title
 Registered Geotechnical Features Assessment (PH)


Drawing no.	Figure 6.3.1	Rev.	0
Drawn	JC	Checked	JH
Date	October 2013	Approved	ST
Scale	1:4000 (A3)	Status	Draft

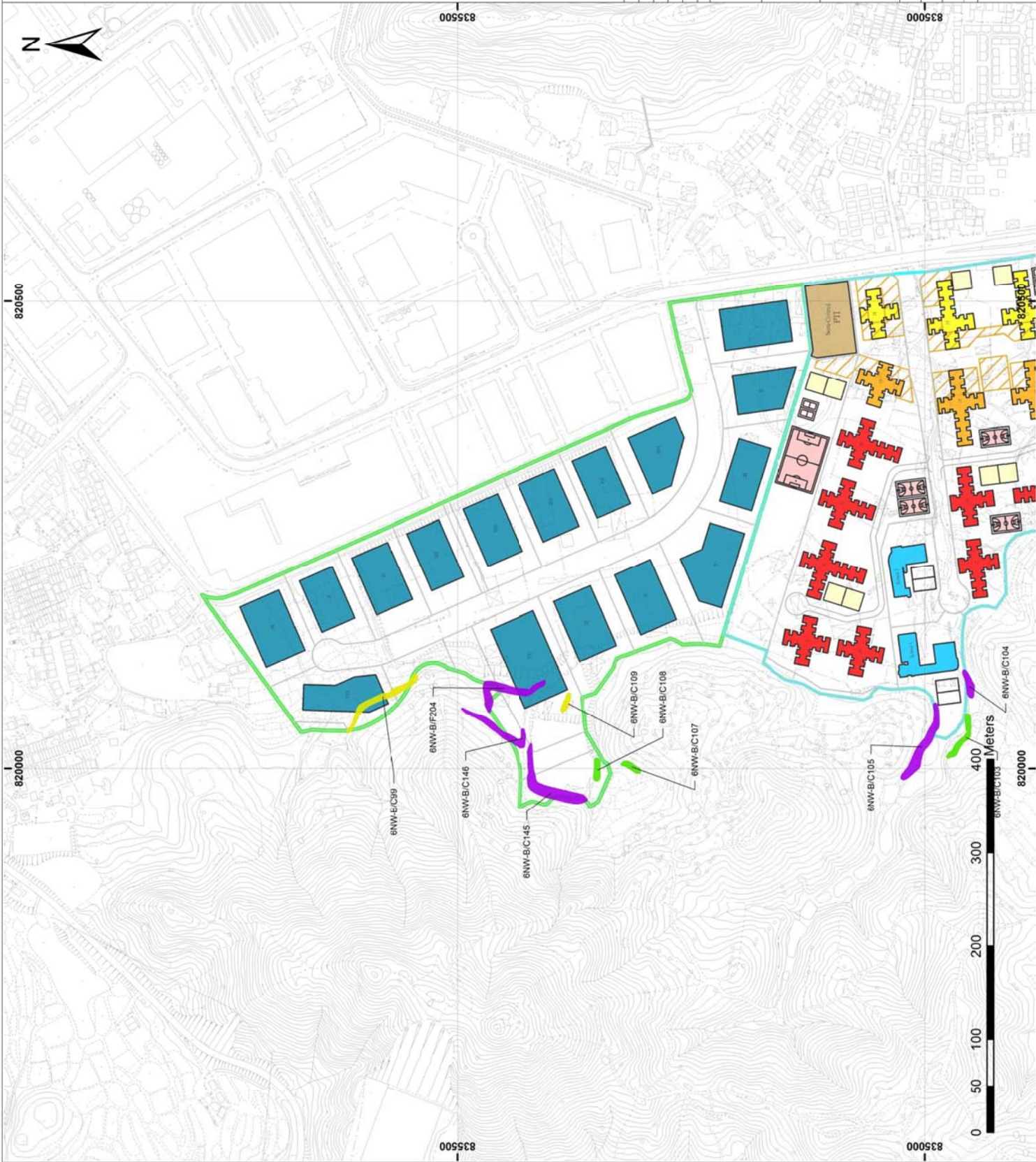
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HONG KONG HOUSING AUTHORITY

Legend

-  Public Housing (PH) Site
 -  Yuen Long Industrial Estate Extension (YLIEE) Site
 -  Proposed Retail Development
- Risk/Impact on Proposed Development**
-  Slope to be retained – no significant risk (Further Assessment Required to Confirm)
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Rev	Description	By	Date
0	Draft	JC	October 2013

ARUP

Project title
 Agreement No. CE20120293
 Planning and Engineering Study for the Public Housing Site
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title
 Registered Geotechnical Features (YLIEE)

Drawing no.	Figure 6.3.2	Rev.	0
Drawn	JC	Checked	JH
Date	October 2013	Approved	ST
Scale	1:4000 (A3)	Status	Draft

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HONG KONG HOUSING AUTHORITY

Legend

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

- Existing Ground Level
- Proposed Platform Level
- Proposed Road Level

- Temporary Cut Slope
- Permanent Cut Slope
- 30 Degree Slope Crest
- U-Shaped RC Retaining Wall
- Bored Pile Wall Retaining Wall
- RC or Cantilever Retaining Wall
- Toe Wall (Max 1.2m height)

Note:
Utility zone shall be allowed beneath the future formation level and above the wall base subject to detailed utility planning. The width of L-shaped wall base shall not encroach into future building or basement footprint.
In detail design stage, general arrangement of the permanent slopes and retaining walls shall take will be future revised subject to the building plans, underground services, foundation of building blocks and other external works.

Rev	Description	By	Date
2	Revision	MH	18 Oct 2013
1	Revision	MH	20 Aug 2013
0	Draft	JC	20 Aug 2013

ARUP

Project title
Agreement No. CE20120293
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title

TR3x - Geotechnical Feasibility and Site Formation Report

Proposed PH Phase 1 Site Formation Plan

Drawing no. Figure 9.2.1

Rev. 2

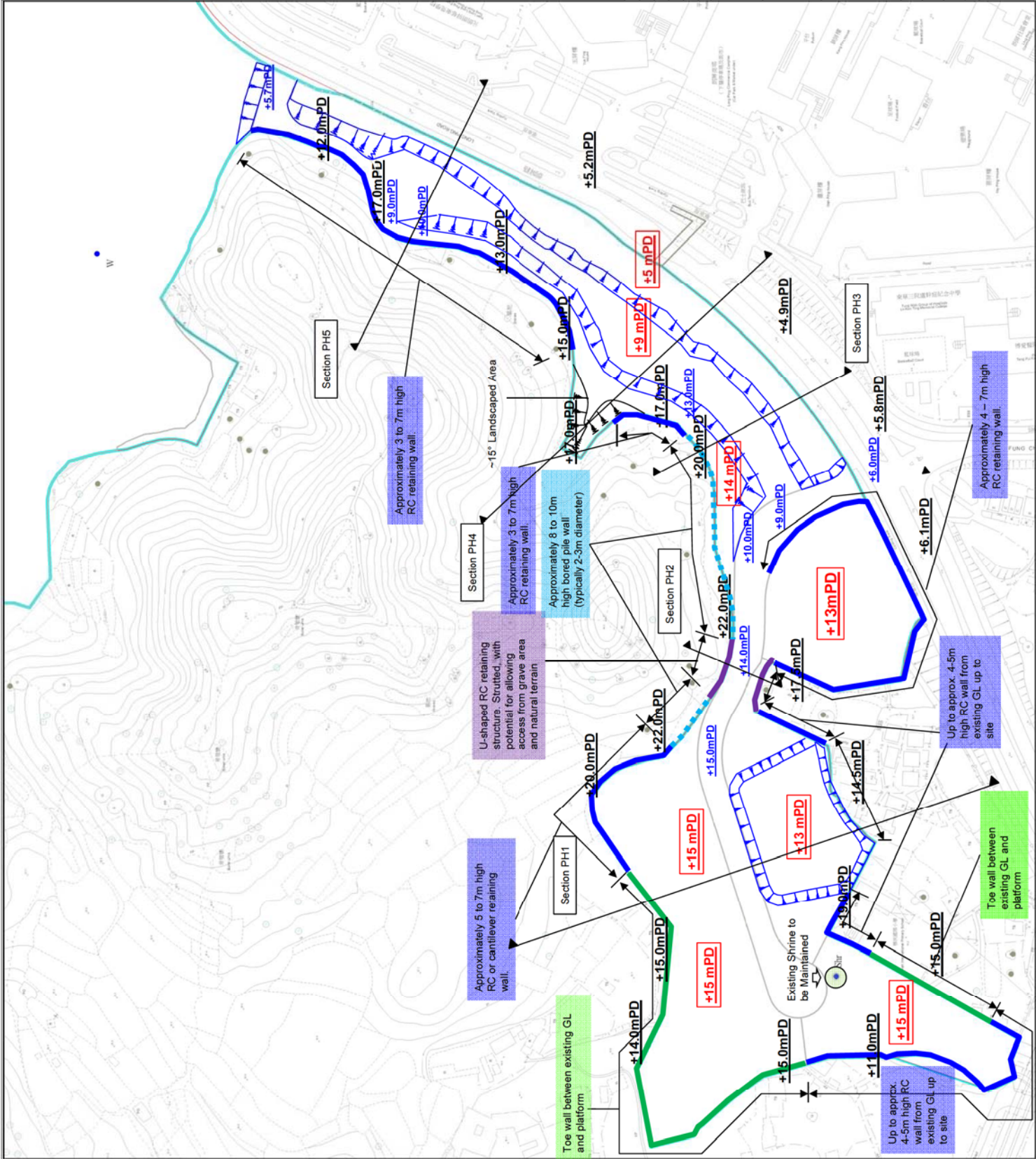
Drawn MH Date Oct 2013 Checked JH Approved ST

Scale 1:2000 (A3) Status Draft

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HONG KONG HOUSING AUTHORITY



Legend

- Public Housing (PH) Site
- Yuen Long Industrial Estate Extension (YLIEE) Site
- Existing Ground Level
- Proposed Platform Level
- Proposed Road Level
- Temporary Cut Slope
- Permanent Cut Slope
- 30 Degree Slope Crest
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Drawing title
 TR3x - Geotechnical Feasibility and Site Formation Report

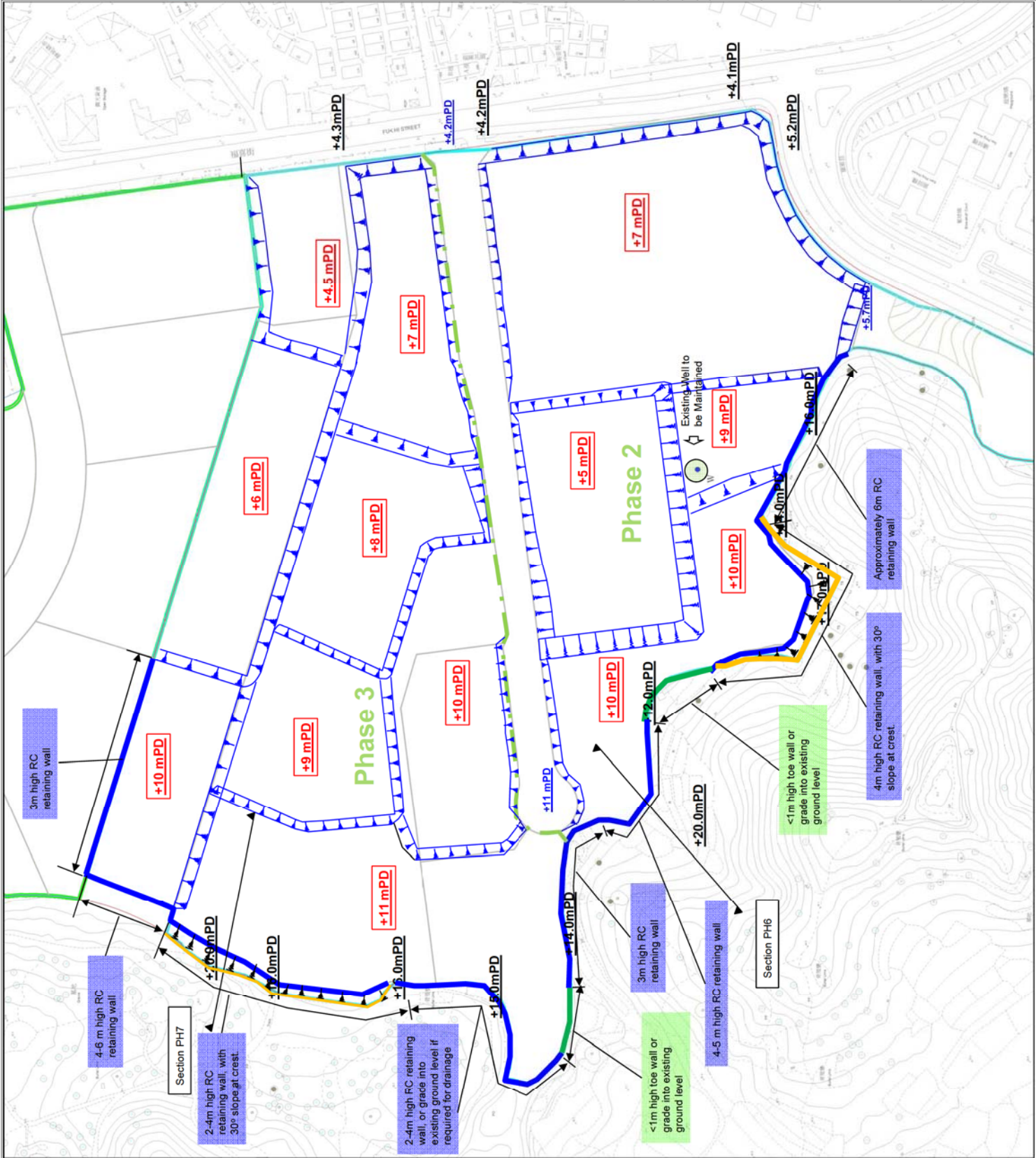
Proposed PH Phase 2 & 3 Site Formation Plan

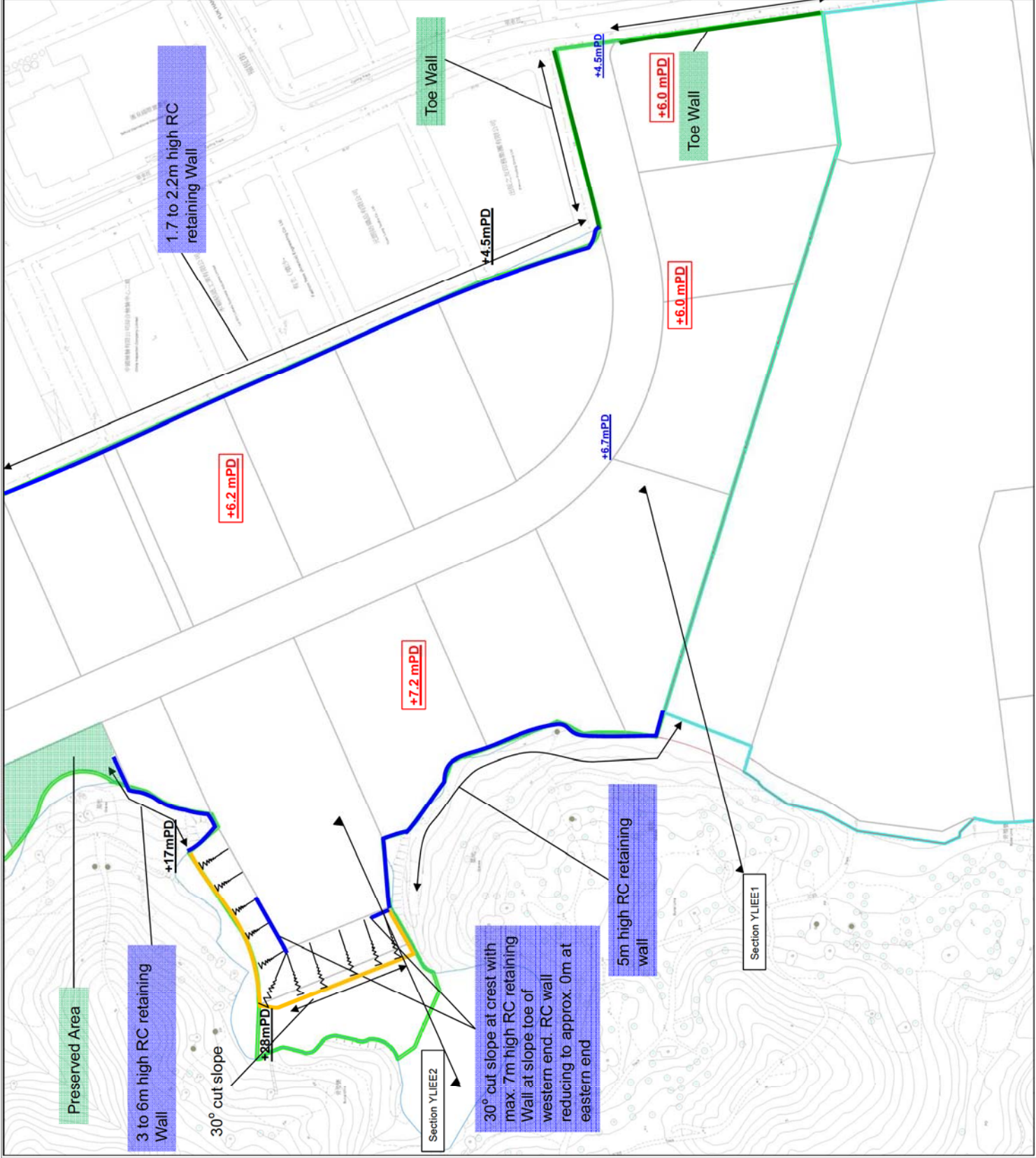
Drawing no.	Figure 9.2.2	Rev.	2
Drawn	MH	Date	Oct 2013
Checked	JH	Approved	ST
Scale	1:2000 (A3)	Status	Draft

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Legend

- Public Housing (PH) Site
- Yuen Long Industrial Estate Extension (YLIEE) Site
- +15mPD** Existing Ground Level
- +15mPD** Proposed Platform Level
- +15mPD** Proposed Road Level
- ↑↑↑ Temporary Cut Slope
- ↑↑↑ Permanent Cut Slope
- 30 Degree Slope Crest
- U-Shaped RC Retaining Wall
- Bored Pile Wall Retaining Wall
- RC or Cantilever Retaining Wall
- Toe Wall (Max 1.2m height)

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 In detail design stage, general arrangement of the permanent slopes and retaining walls shall take will be future revised subject to the building plans, underground services, foundation of building blocks and other external works.

Rev	Description	By	Date
2	Revision	MH	18 Oct 2013
1	Revision	MH	20 Aug 2013
0	Draft	JC	20 Aug 2013

ARUP

Project title
 Agreement No. CE20120293
 Planning and Engineering Study for the Public Housing Site
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title

TR3x - Geotechnical Feasibility and Site
 Formation Report

Proposed YLIEE Site Formation Plan

Drawing no. Figure 9.2.3

Rev. 2

Drawn	MH	Date	Oct 2013	Checked	JH	Approved	ST
Scale	1:2000 (A3)			Status	Draft		

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Legend

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

- +15mPD Existing Ground Level
- +15mPD Proposed Platform Level
- +15mPD Proposed Road Level

- Temporary Cut Slope
- Permanent Cut Slope
- 30 Degree Slope Crest
- U-Shaped RC Retaining Wall
- Bored Pile Wall Retaining Wall
- RC or Cantilever Retaining Wall
- Toe Wall (Max 1.2m height)

Note:
Utility zone shall be allowed beneath the future formation level and above the wall base subject to detailed utility planning. The width of L-shaped wall base shall not encroach into future building or basement footprint. In detail design stage, general arrangement of the permanent slopes and retaining walls shall take will be future revised subject to the building plans, underground services, foundation of building blocks and other external works.

Rev	Description	By	Date
2	Revision	MH	18 Oct 2013
1	Revision	MH	20 Aug 2013
0	Draft	JC	20 Aug 2013

ARUP

Project title
Agreement No. CE20120293
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title

TR3x - Geotechnical Feasibility and Site Formation Report

Proposed YLIEE Site Formation Plan

Drawing no. Figure 9.2.4

Rev. 2

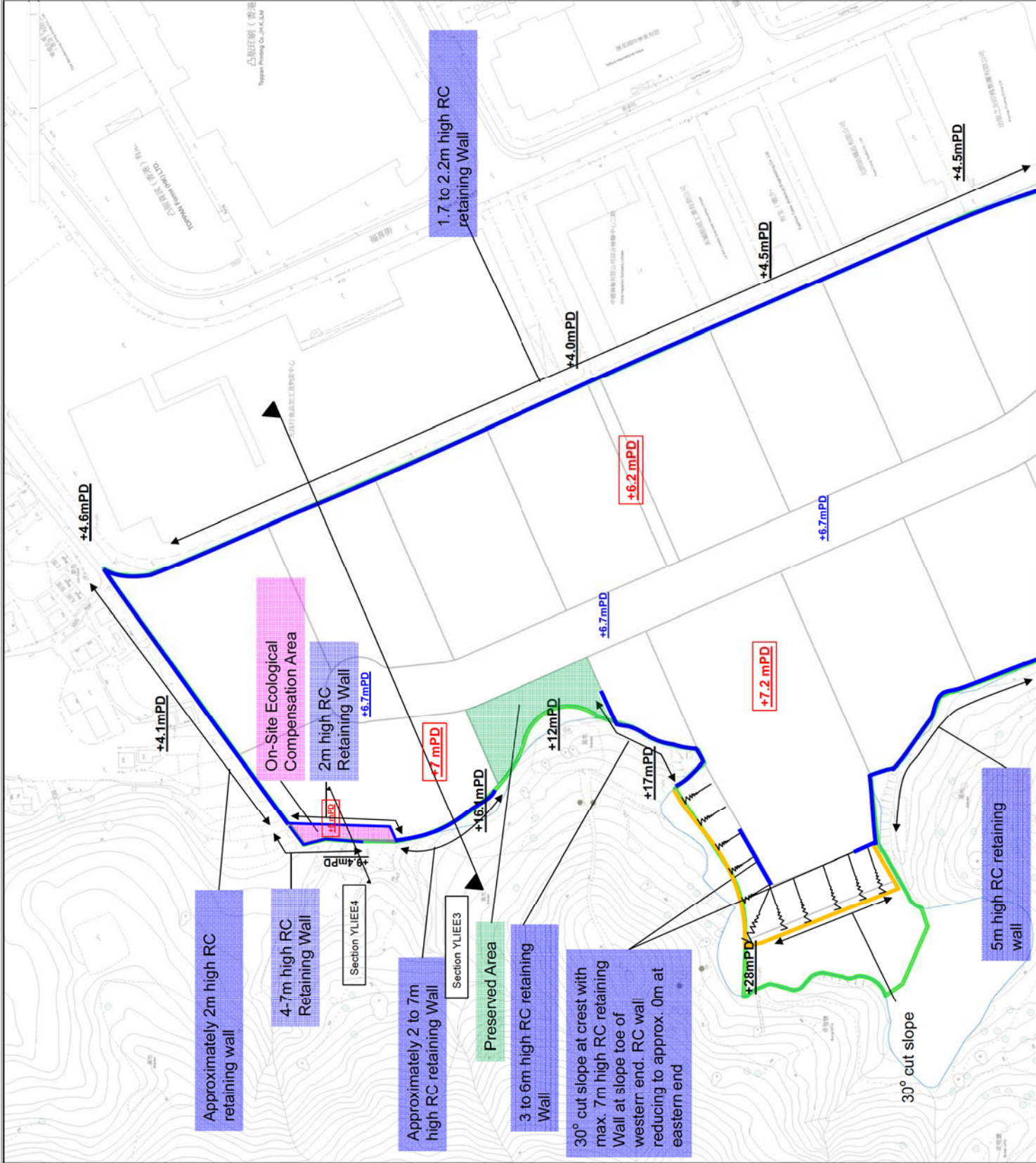
Drawn MH Date Oct 2013 Checked JH Approved ST

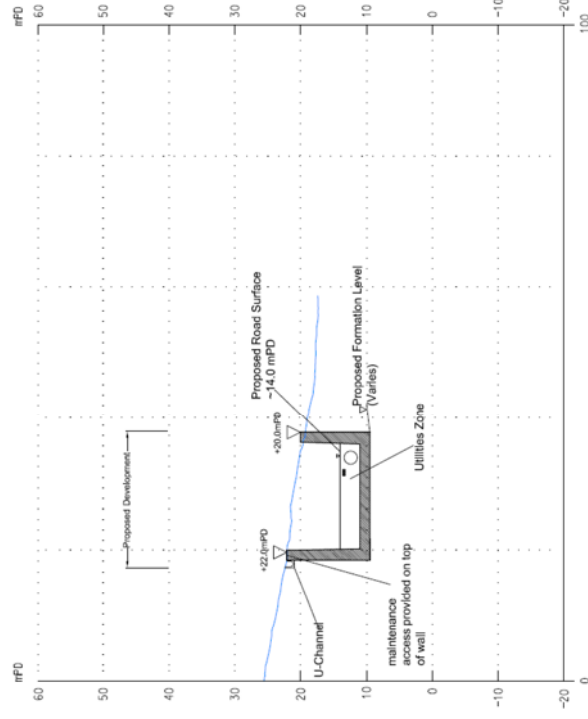
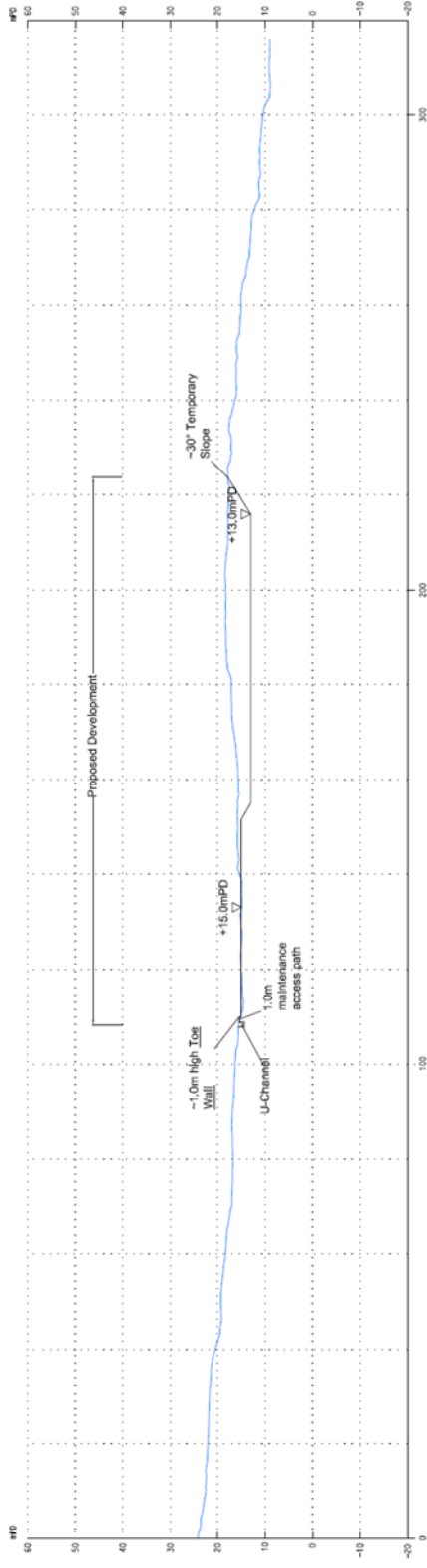
Scale 1:2000 (A3) Status Draft

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Note

The extent of all retaining wall bases, as shown, is subject to detailed design and may vary pending the site specific ground investigation findings obtained following resumption of the site. Detailed design of all proposed structures shall take due consideration of the anticipated retaining wall bases.

ARUP

Project title

Agreement No. CE20120293
 Planning and Engineering Study for the Public Housing Site
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title

TR3x - Geotechnical Feasibility and Site
 Formation Report

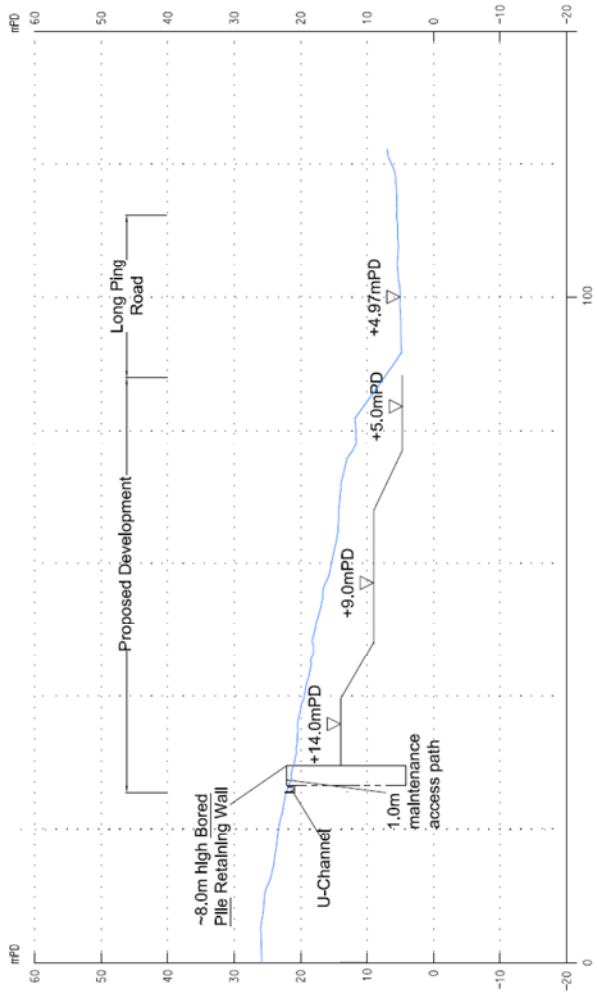
Proposed Site Formation Sections PH 1 & PH 2

Drawing no.	Figure 9.2.5	Rev.	0
Drawn	JC	Checked	JH
Date	Aug 2013	Approved	ST
Scale	As shown	Status	Draft

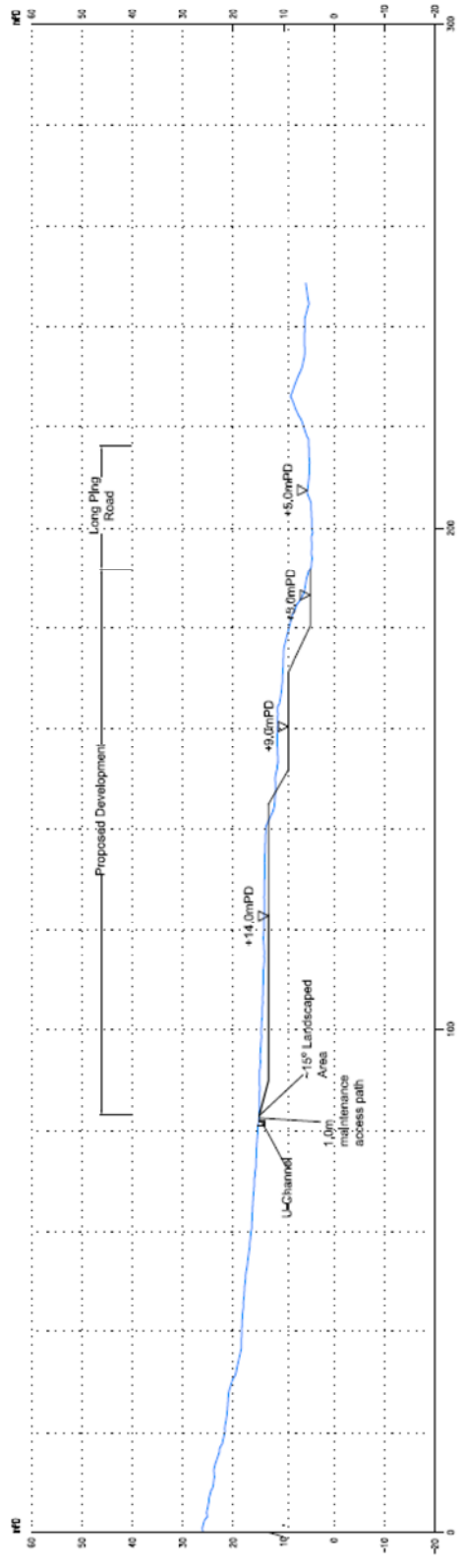
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Section PH 3



Section PH 4

Note
 The extent of all retaining wall bases, as shown, is subject to detailed design and may vary depending on the site specific ground investigation findings obtained following resumption of the site. Detailed design of all proposed structures shall take due consideration of the anticipated retaining wall bases.

Rev	Description	By	Date
0	Draft	JC	14 Aug 2013

ARUP

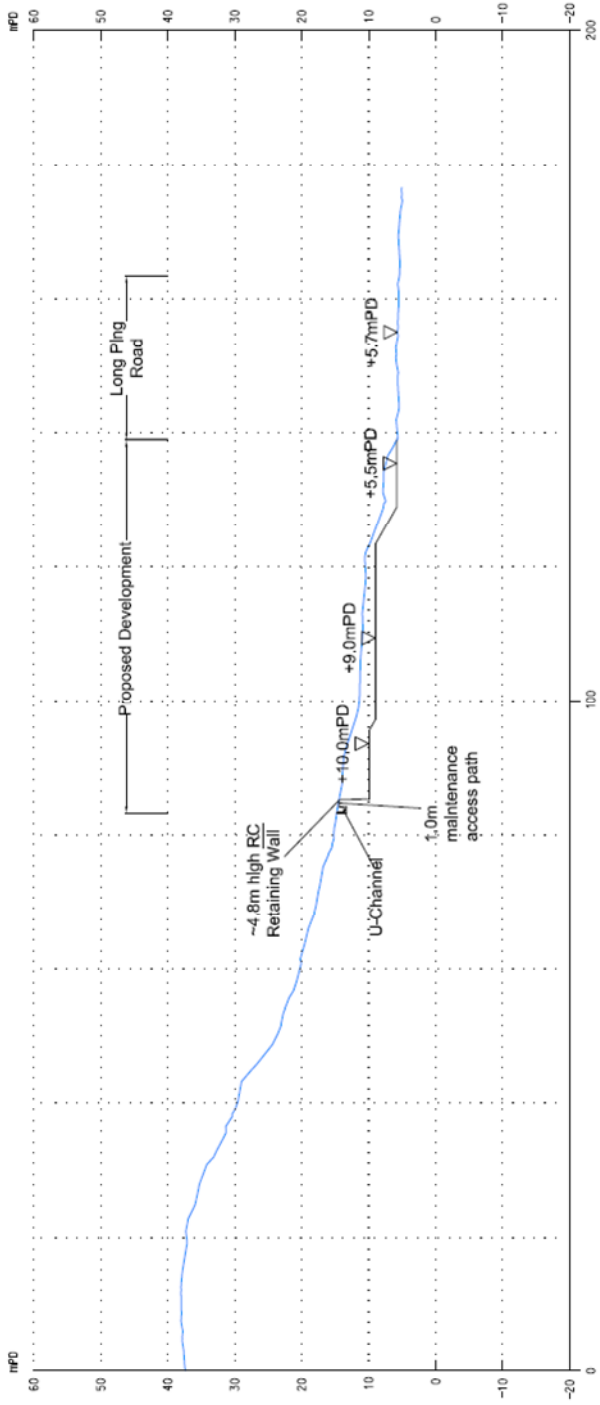
Project title
 Agreement No. CE20120293
 Planning and Engineering Study for the Public Housing Site
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title
 TR3x - Geotechnical Feasibility and Site
 Formation Report

Proposed Site Formation Sections PH 3 & PH 4

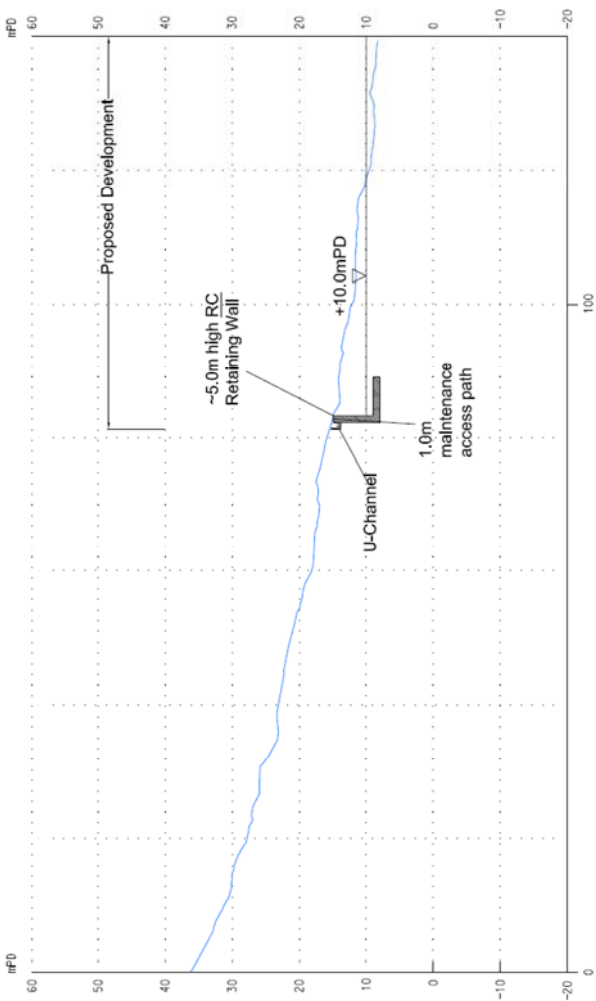
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Drawn	JC	Checked	JH
Date	Aug 2013	Approved	ST
Scale	As shown	Status	Draft





Section PH 5

Note
 The extent of all retaining wall bases, as shown, is subject to detailed design and may vary perding the site specific ground investigation findings obtained following resumption of the site. Detailed design of all proposed structures shall take due consideration of the anticipated retaining wall bases.



Section PH 6

Rev	Description	By	Date
0	Draft	JC	14 Aug 2013

ARUP

Project title
 Agreement No. CE20120293
 Planning and Engineering Study for the Public Housing Site
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title
 TR3x - Geotechnical Feasibility and Site
 Formation Report

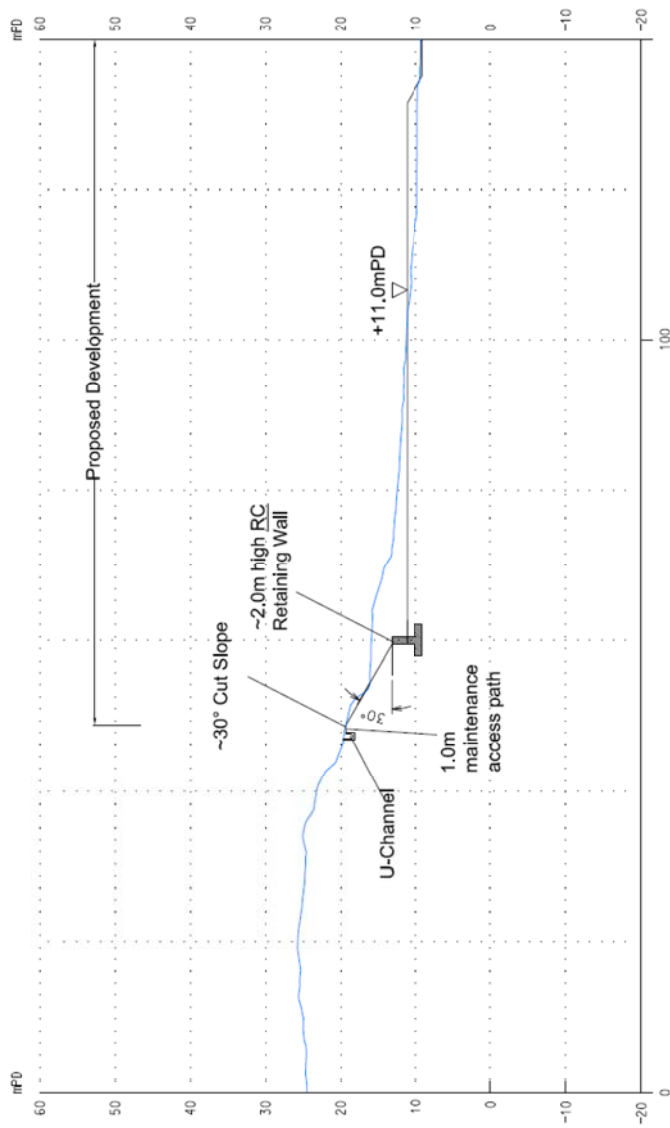
Proposed Site Formation Sections PH 5 & PH 6

Drawing no.	Figure 9.2.7	Rev.	0
Drawn	JC	Date	Aug 2013
Checked	JH	Approved	ST
Scale	As shown	Status	Draft

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Section PH 7

Note

The extent of all retaining wall bases, as shown, is subject to detailed design and may vary perding the site specific ground investigation findings obtained following resumption of the site. Detailed design of all proposed structures shall take due consideration of the anticipated retaining wall bases.

Rev	Description	By	Date
0	Draft	JC	14 Aug 2013

Consultant
ARUP

Project title

Agreement No. CE20120293
Planning and Engineering Study for the Public Housing Site
and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title

TR3x - Geotechnical Feasibility and Site
Formation Report

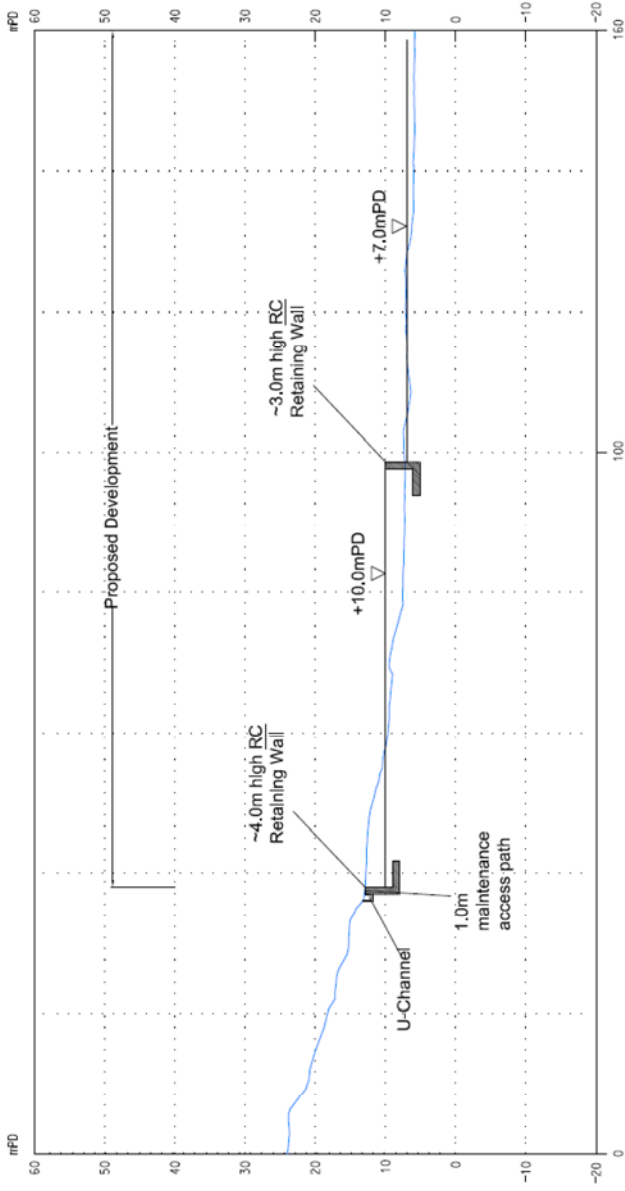
Proposed Site Formation Sections PH 7

Drawing no.	Figure 9.2.8	Rev.
Drawn	JC	Date
Checked	JH	Approved
Status	As shown	Draft

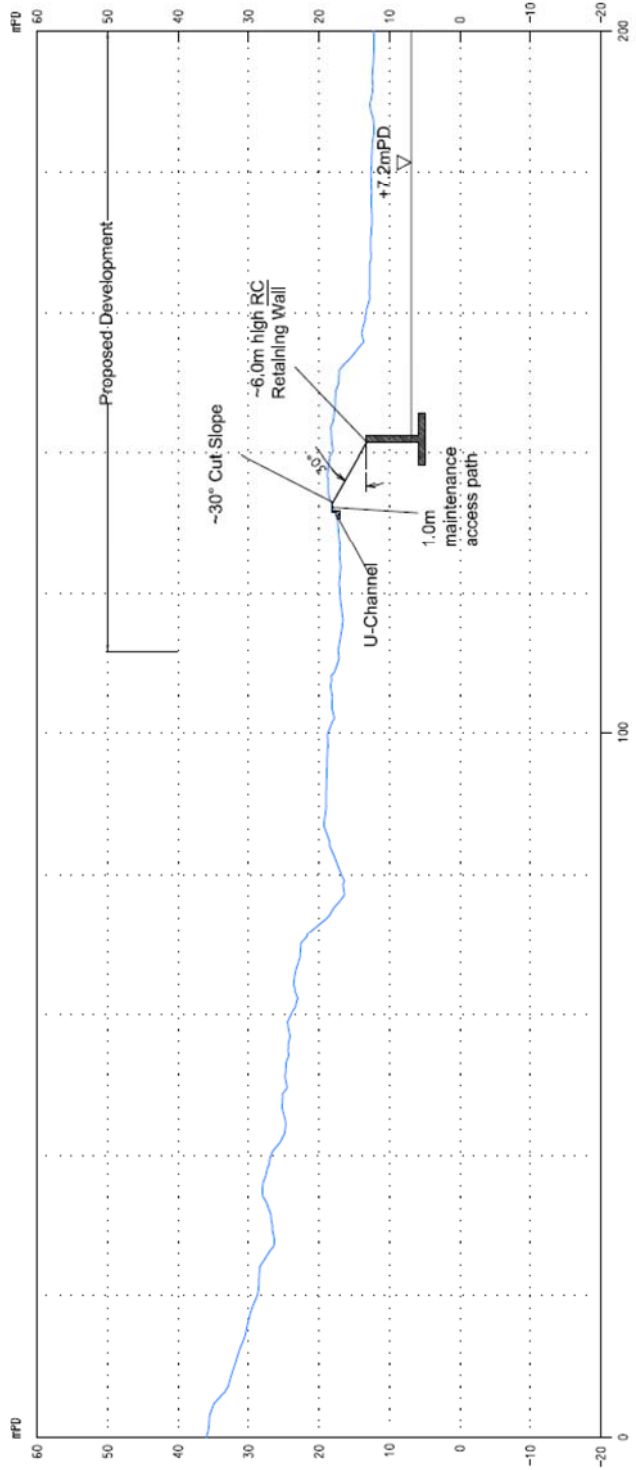
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Section YLIEE1



Section YLIEE2

Note

The extent of all retaining wall bases, as shown, is subject to detailed design and may vary pending the site specific ground investigation findings obtained following resumption of the site. Detailed design of all proposed structures shall take due consideration of the anticipated retaining wall bases.

Rev	Description	By	Date
0	Draft	JC	14 Aug 2013

ARUP

Project title
 Agreement No. CE20120293
 Planning and Engineering Study for the Public Housing Site
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title
 TR3x - Geotechnical Feasibility and Site
 Formation Report

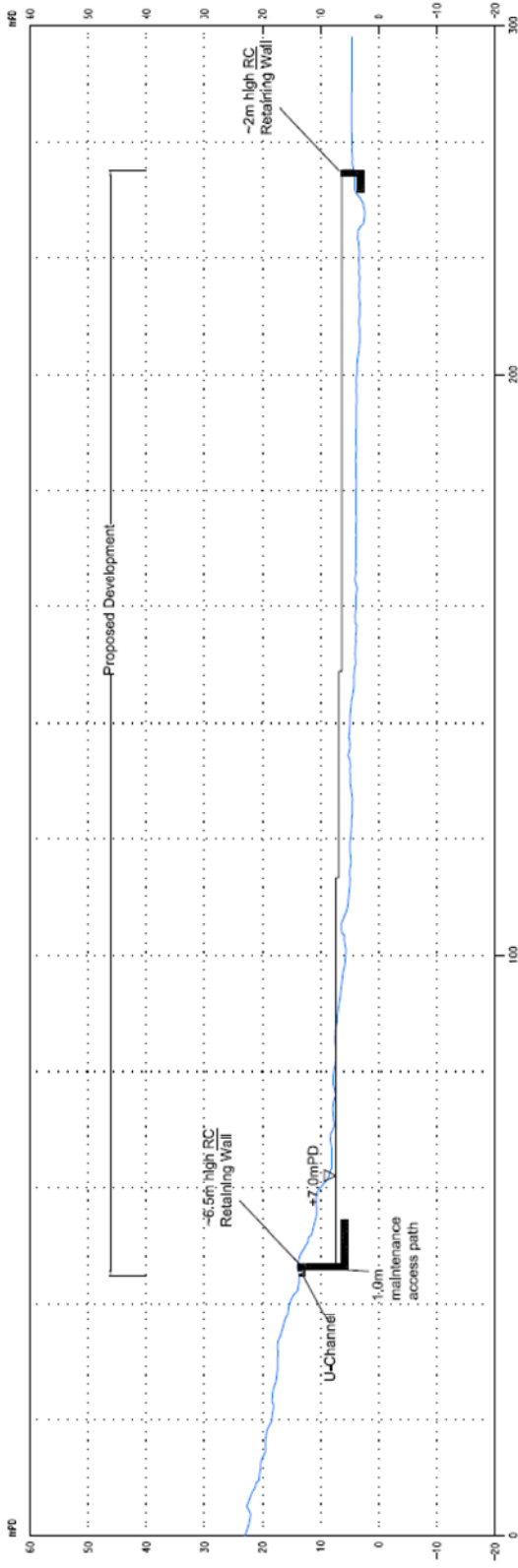
Proposed Site Formation Sections YLIEE1 and
 YLIEE 2

Drawing no.	Figure 9.2.9	Rev.	0
Drawn	JC	Date	Aug 2013
Checked	JH	Approved	ST
Scale	As shown	Status	Draft

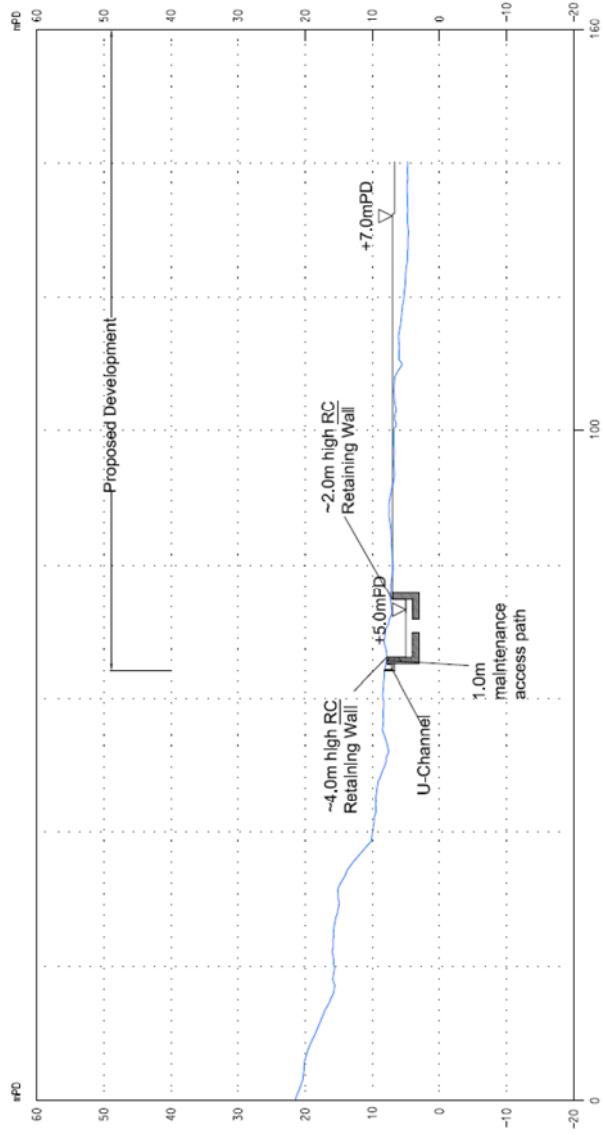
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Section YLIEE3



Section YLIEE4

Note
 The extent of all retaining wall bases, as shown, is subject to detailed design and may vary pending the site specific ground investigation findings obtained following resumption of the site. Detailed design of all proposed structures shall take due consideration of the anticipated retaining wall bases.

Rev	Description	By	Date
0	Draft	JC	14 Aug 2013

ARUP

Project title
 Agreement No. CE20120293
 Planning and Engineering Study for the Public Housing Site
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title
 TR3x - Geotechnical Feasibility and Site
 Formation Report

Proposed Site Formation Sections YLIEE3 and
 YLIEE 4

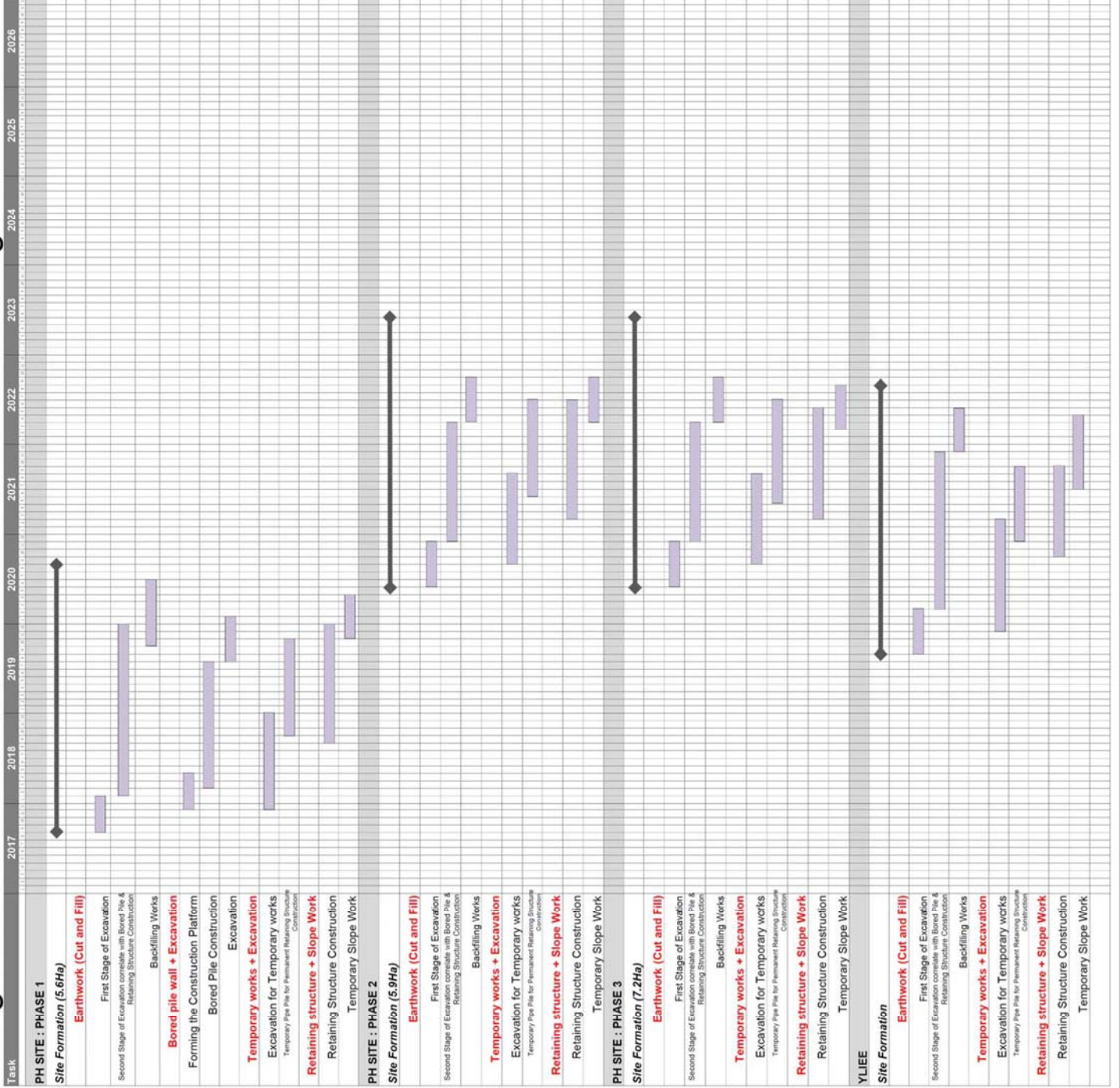
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Drawn	JC	Date	Aug 2013
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Wang Chau Site Formation Tentative Construction Programme



Note:
The proposed site formation programme of PH and YLIEE site are tentative assumption. The programme shall be revised subjected to the detail design stage.

Rev	Description	By	Date
0	Draft	JC	14 Aug 2013

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Project title
Agreement No. CE2012/0293
Planning and Engineering Study for the Public Housing Site and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title

TR3x - Geotechnical Feasibility and Site Formation Report

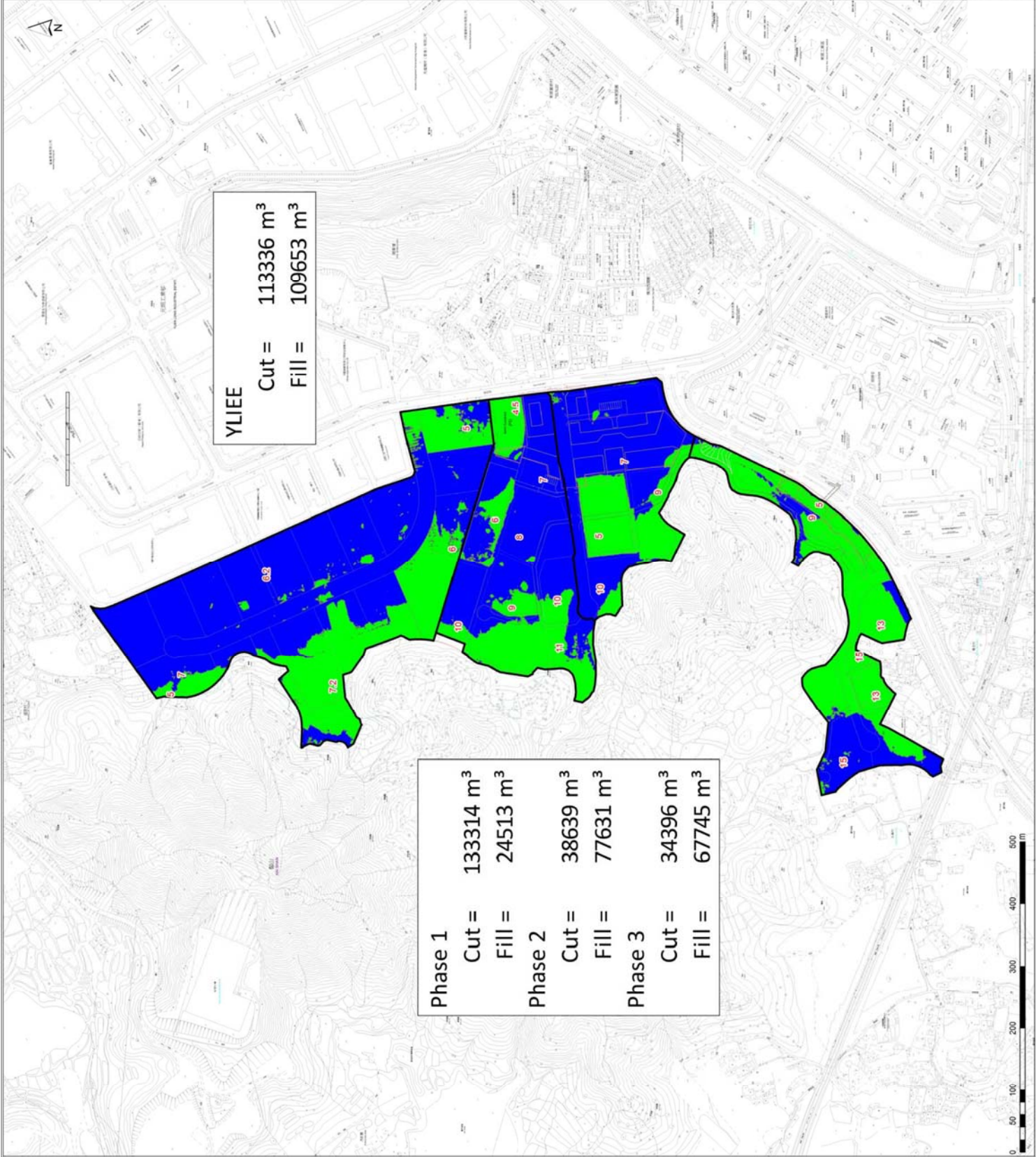
Proposed Site Formation Programme

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Scale	1:1000 (A3)			Status	Draft		
Drawing no.	Figure 9.2.11			Rev.	0		

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YLIEE
 Cut = 113336 m³
 Fill = 109653 m³

Phase 1
 Cut = 133314 m³
 Fill = 24513 m³

Phase 2
 Cut = 38639 m³
 Fill = 77631 m³

Phase 3
 Cut = 34396 m³
 Fill = 67745 m³

Legend

- Cut
- Fill

Rev	Description	By	Date
0	Draft	JC	14 Aug 2013

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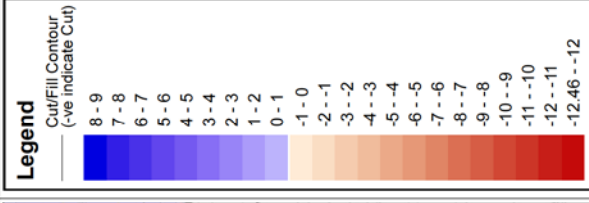
Project title
 Agreement No. CE200120293
 Planning and Engineering Study for the Public Housing Site
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title
 TR3x - Geotechnical Feasibility and Site
 Formation Report

Cut and Fill Volume

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Date	Aug 2013	Status	Draft		
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0	Draft	JC	14 Aug 2013

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Project title
Agreement No. CE20120293
Planning and Engineering Study for the Public Housing Site
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Drawing title
TR3x - Geotechnical Feasibility and Site
Formation Report
Cut and Fill Contour - PH Phase I

Drawing no. Figure 9.4.2
Rev. 0

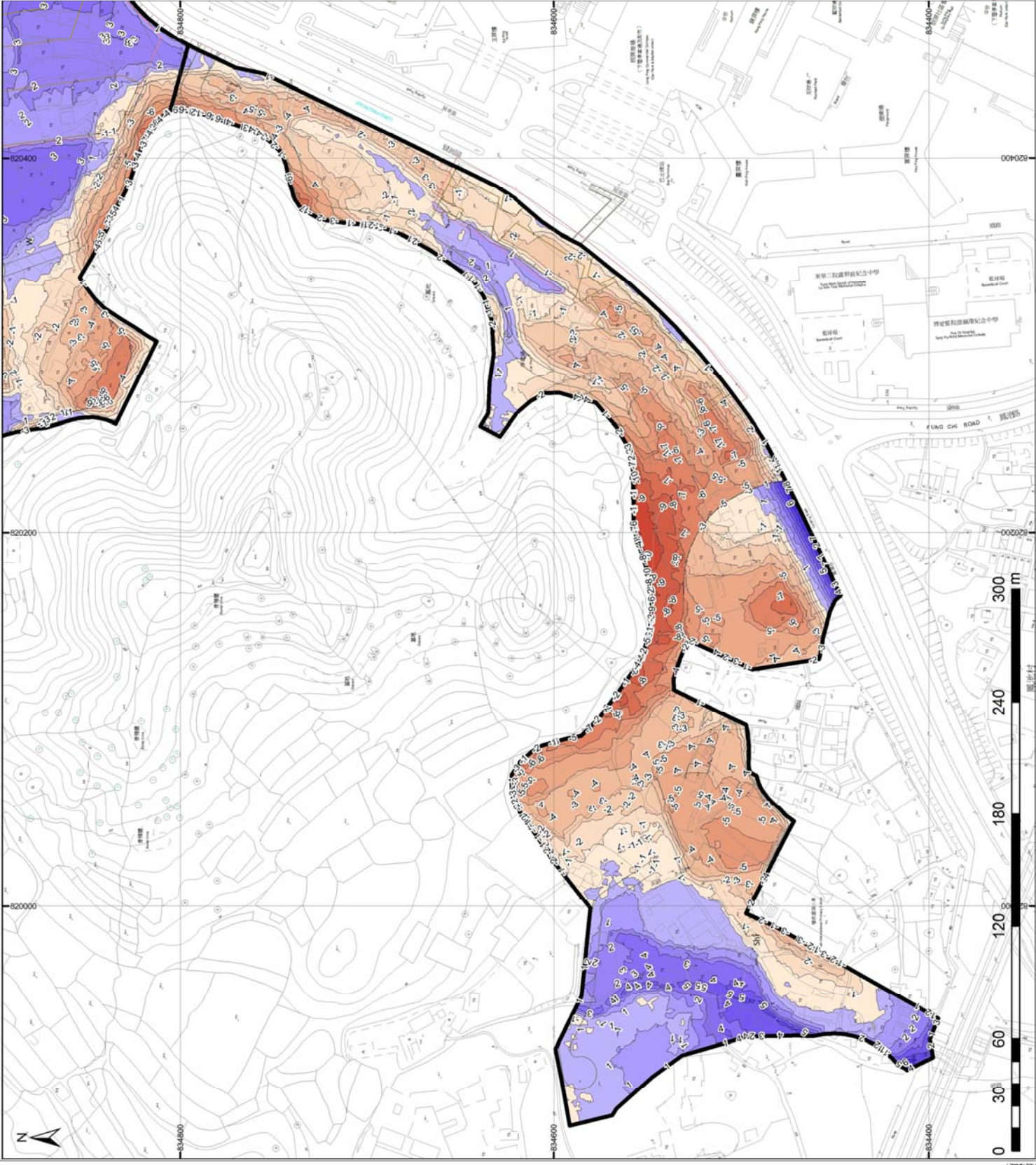
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Date Aug 2013
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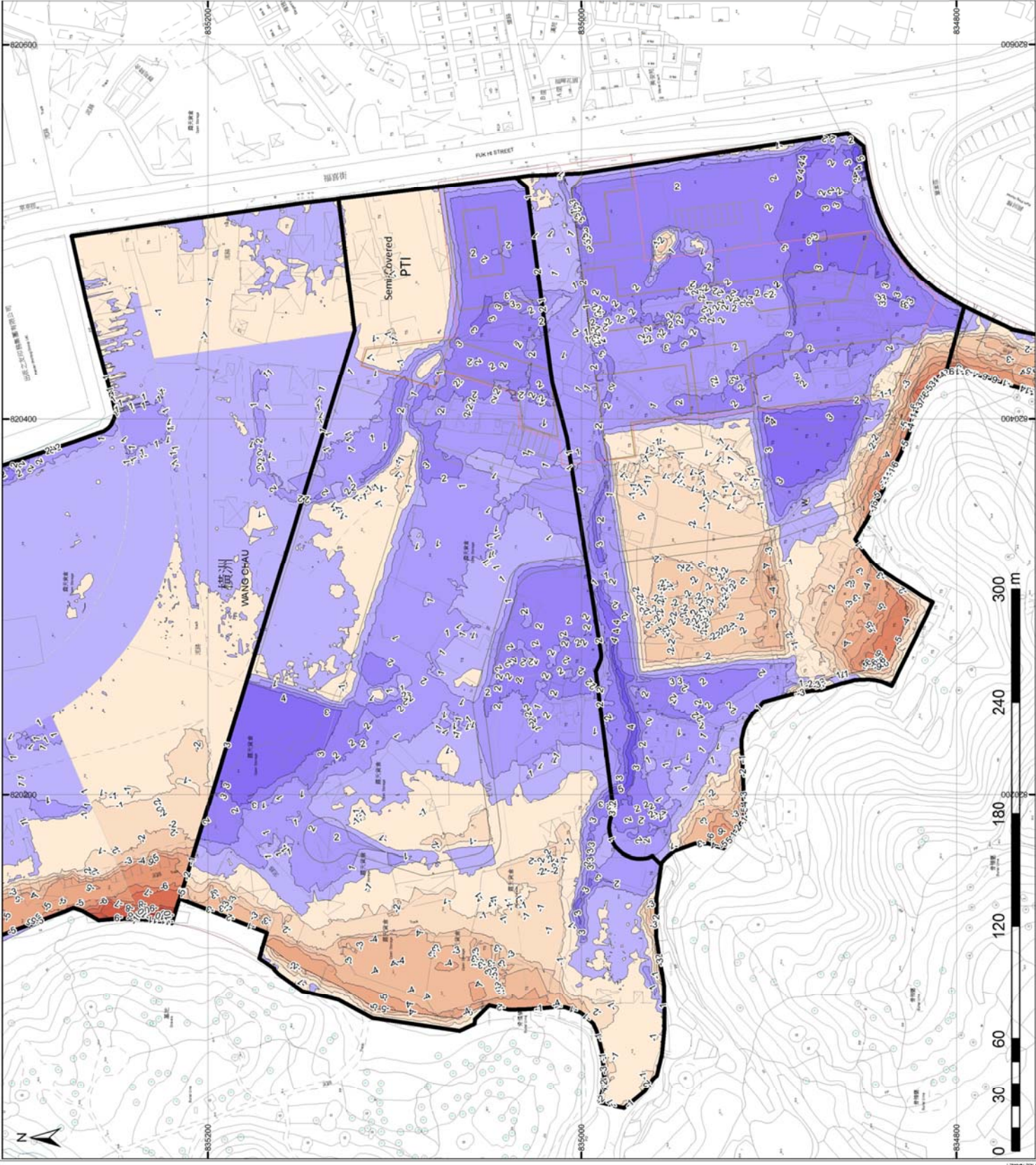
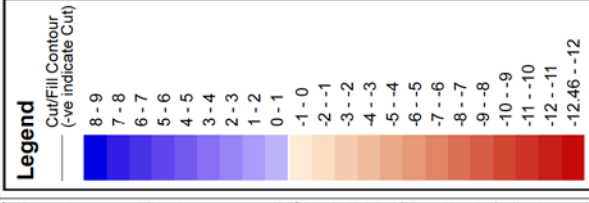
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Approved ST
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0	Draft	JC	14 Aug 2013

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Project title
Agreement No. CE20120293
Planning and Engineering Study for the Public Housing Site
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Drawing title
TR3x - Geotechnical Feasibility and Site
Formation Report
Cut and Fill Contour - PH Phase II & III

Drawing no. Figure 9.4.3
Rev. 0

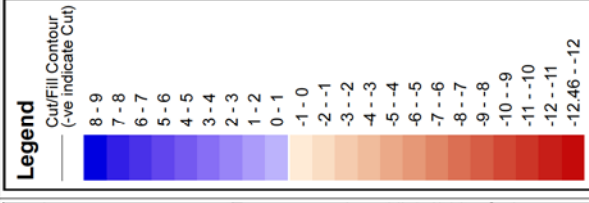
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Project title
Agreement No. CE20120293
Planning and Engineering Study for the Public Housing Site
and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title
TR3x - Geotechnical Feasibility and Site
Formation Report
Cut and Fill Contour - YL1EE

Drawing no. Figure 9.4.4
Rev. 0

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Date Aug 2013
Scale 1:2000 (A3)

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Approved ST
Status Draft

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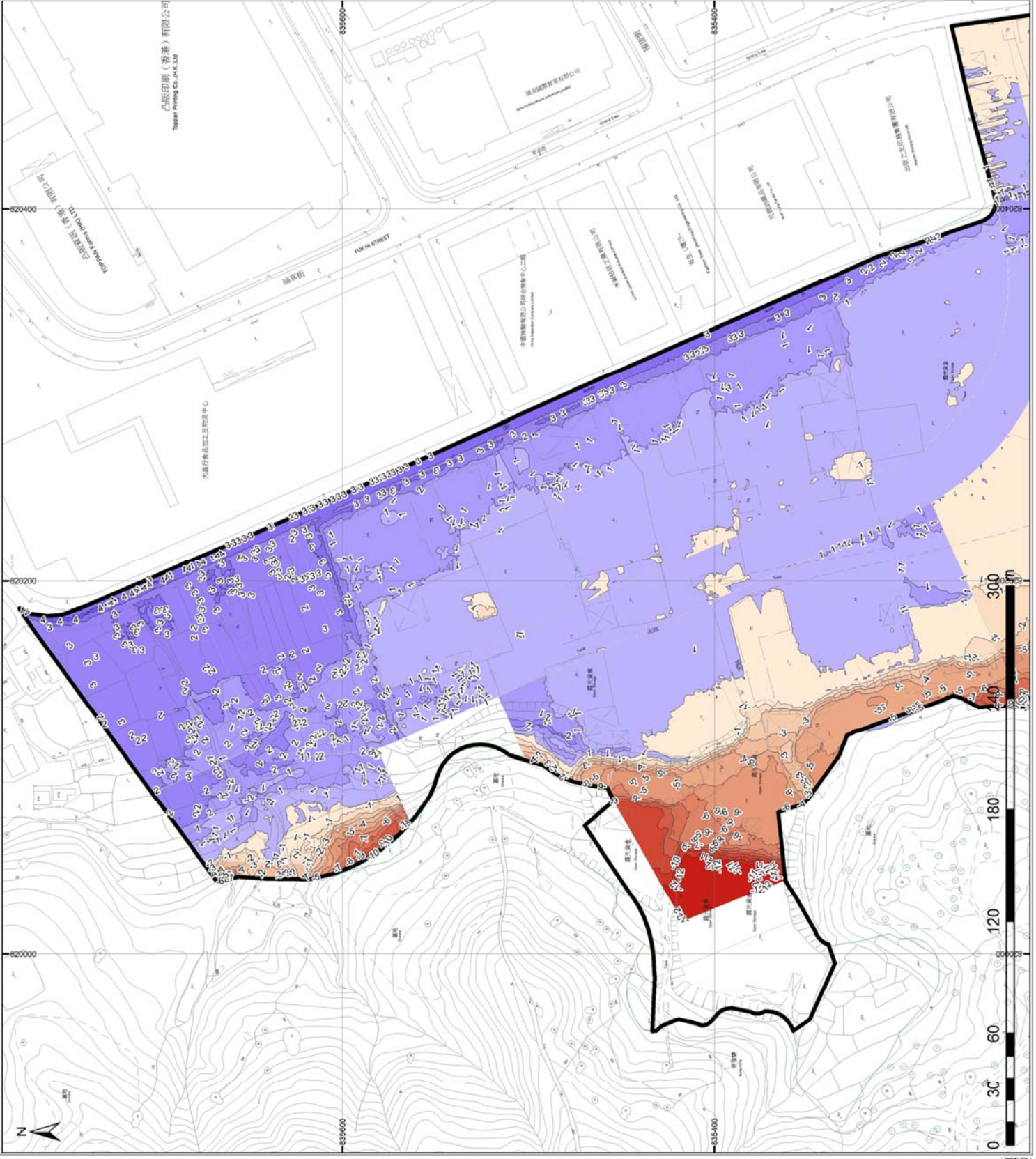
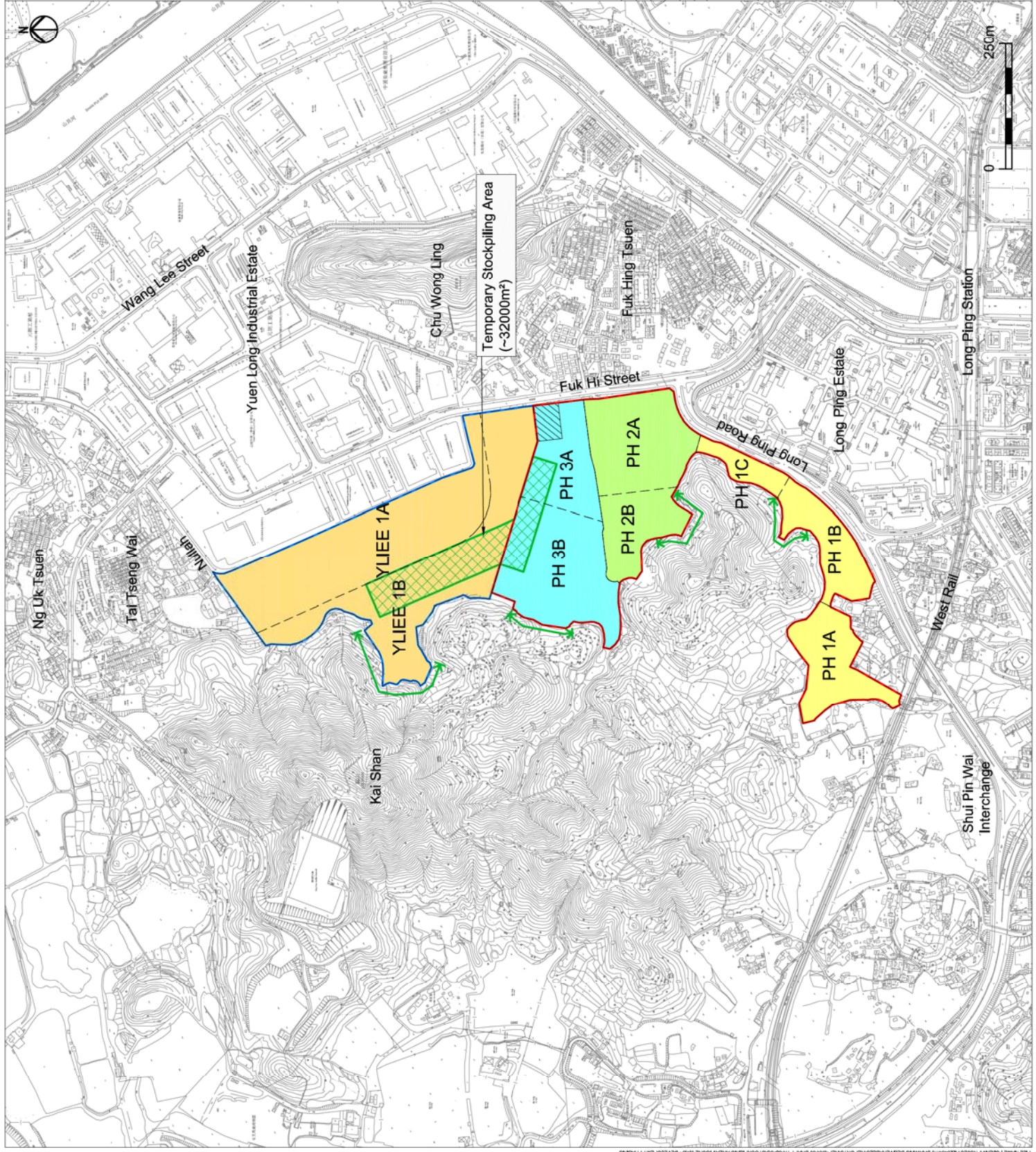


Figure 9.4.4



- 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

ARUP

Project title
 Agreement No. CB201/20293
 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 9.4.5	Rev.	A
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Date	11/13	Approved	ST
Scale	AS SHOWN	Status	PRELIMINARY
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