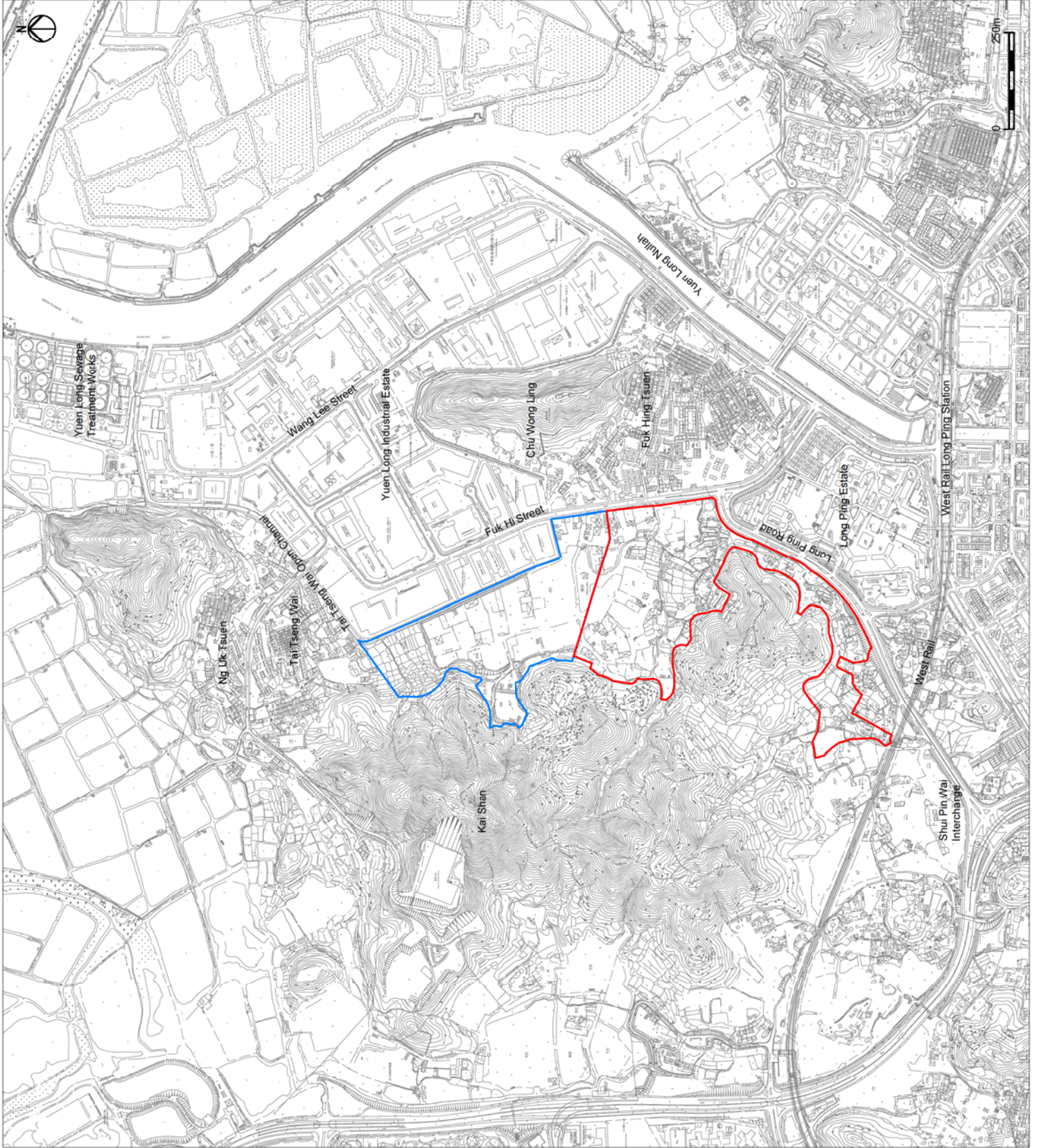


Drawings

Legend

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



Rev	Description	GL	Date
A	FIRST ISSUE	GL	10/13
Consultant:		By	Date

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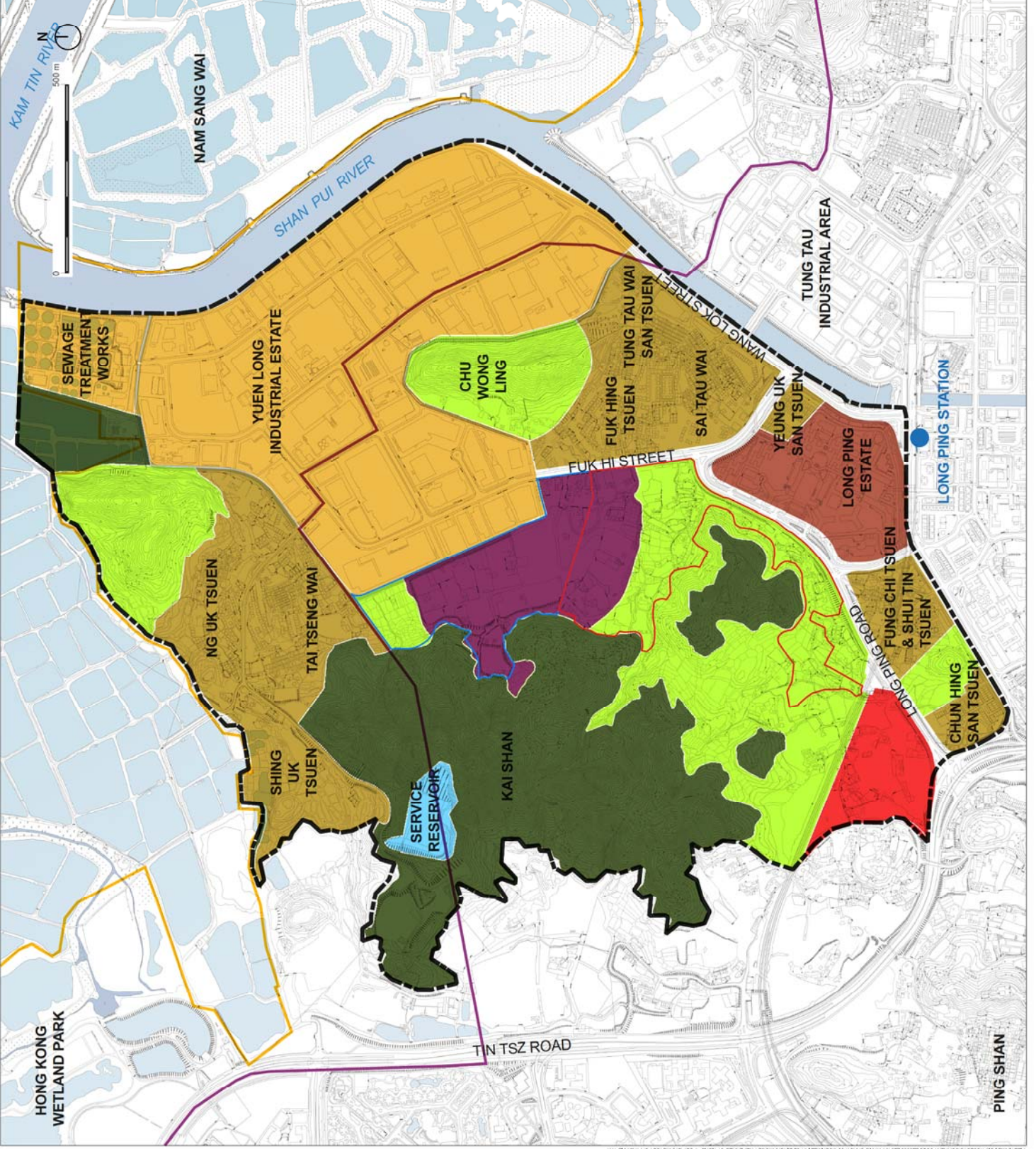
Project title
 Agreement No. CB20120293
 Planning and Engineering Study for the Public Housing Site
 and Yuen Long Industrial Estate Extension at Wang Chau

Drawing title
 Location of Project Site

Drawing no.	226464/OAP/P011	Rev.	A
Drawn	GL	Checked	IL
Date	10/13	Approved	ST
Scale	AS SHOWN	Status	PRELIMINARY
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HONG KONG HOUSING AUTHORITY



Legend

- Proposed Public Housing Site
- Proposed Yuen Long Industrial Estate Extension (YLIEE)
- Boundary of Wetland Conservation Area
- Boundary of Wetland Buffer Area

OZP (S/YL - PS/14, S/YL/21 & S/YL-LFS/7) - Zones

- Conservation Area (CA)
- Green Belt (GB)
- Government, Institution, or Community (G/I/C)
- Residential (Group A) (R(A))
- Village Type Development (V)
- Comprehensive Development Area (CDA)
- Other Specified Uses (OU)
- Open Storage (OS)

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
Proposed Development Boundary

<small>Drawing no.</small>	226464/OAPP/021	<small>Rev.</small>	B
<small>Drawn</small>	CW	<small>Date</small>	12/13
<small>Checked</small>	IL	<small>Approved</small>	ST
<small>Status</small>	1:10000 (A3)	<small>Scale</small>	PRELIMINARY

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HONG KONG HOUSING AUTHORITY

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 storages (incl. podium/lobby)
 Building 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

+10.0 mPD

+11 mPD

+12 mPD

+13 mPD

+14 mPD

+15 mPD

+16 mPD

+17 mPD

+18 mPD

+19 mPD

+20 mPD

+21 mPD

+22 mPD

+23 mPD

+24 mPD

+25 mPD

+26 mPD

+27 mPD

+28 mPD

+29 mPD

+30 mPD

+31 mPD

+32 mPD

+33 mPD

+34 mPD

+35 mPD

+36 mPD

+37 mPD

+38 mPD

+39 mPD

+40 mPD

+41 mPD

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+46 mPD

+47 mPD

+48 mPD

+49 mPD

+50 mPD

+51 mPD

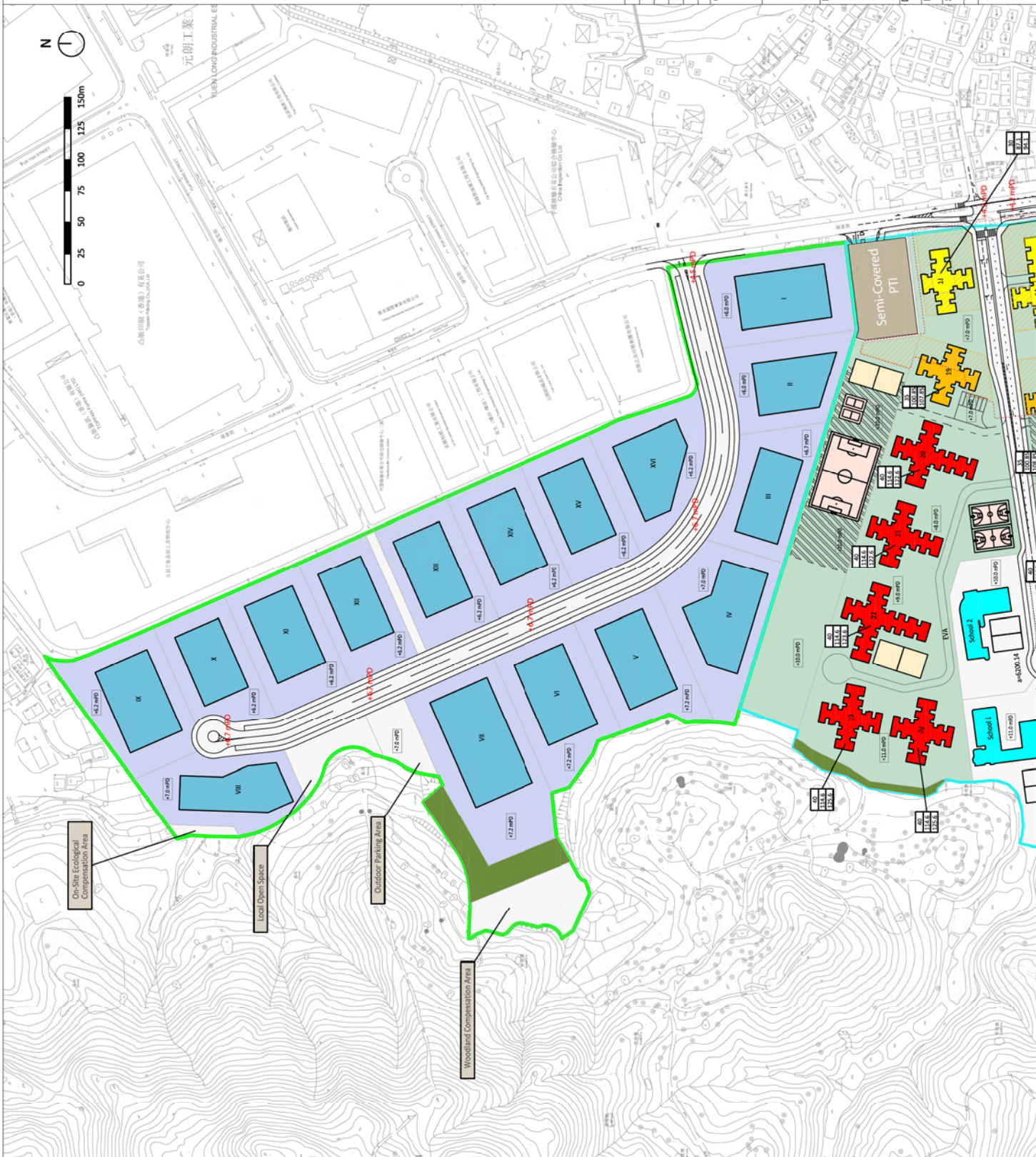
+52 mPD

+53 mPD

+54 mPD

+55 mPD

+56 mPD



ARUP

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

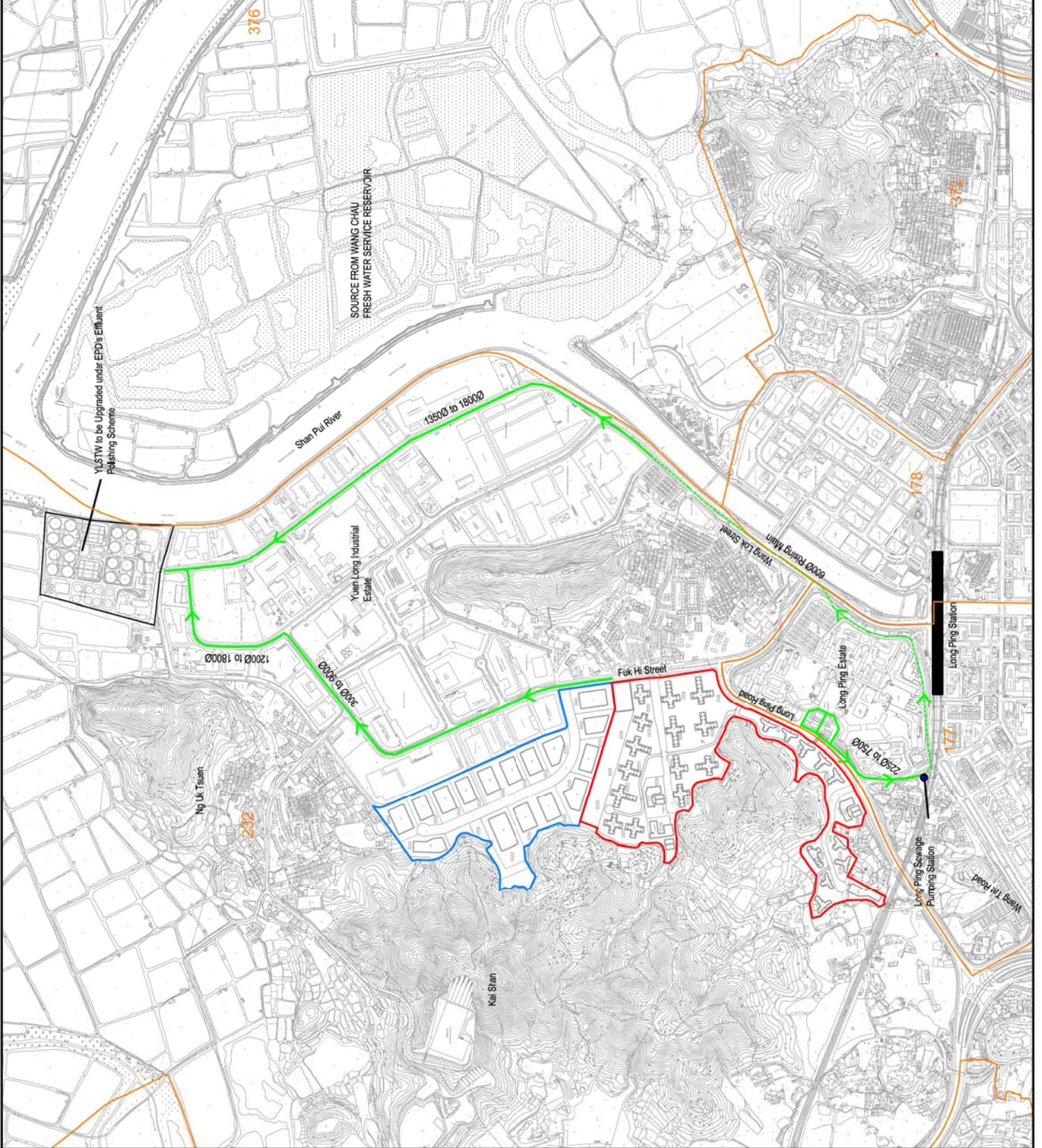
Drawing title
 Preferred Option Layout Plan - YLIEE Site

Drawing no.	22646/04/PP/023	Rev.	A
Drawn by		Checked	
Date	10/13	IL	Approved
Scale	1:3000 (A3)	Status	PRELIMINARY
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HONG KONG HOUSING AUTHORITY

LEGEND:
 PUBLIC HOUSING SITE (PH SITE)
 YUEN LONG INDUSTRIAL ESTATE EXTENSION (YLIEE SITE)
 EXISTING SEWER
 EXISTING RISING MAIN
 PWS ZONE



YLSTW to be Upgraded under EPD's Effluent Polishing Scheme

Rev	Description	By	Date
-	FIRST ISSUE	EC	11/13

ARUP

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

Drawing title
 EXISTING SEWERAGE LAYOUT

Drawing no.	226464/OAP/C021	Rev.	-
Drawn	EC	Checked	MB
Date	11/13	Approved	ST
Scale	N.T.S.	Status	PRELIMINARY

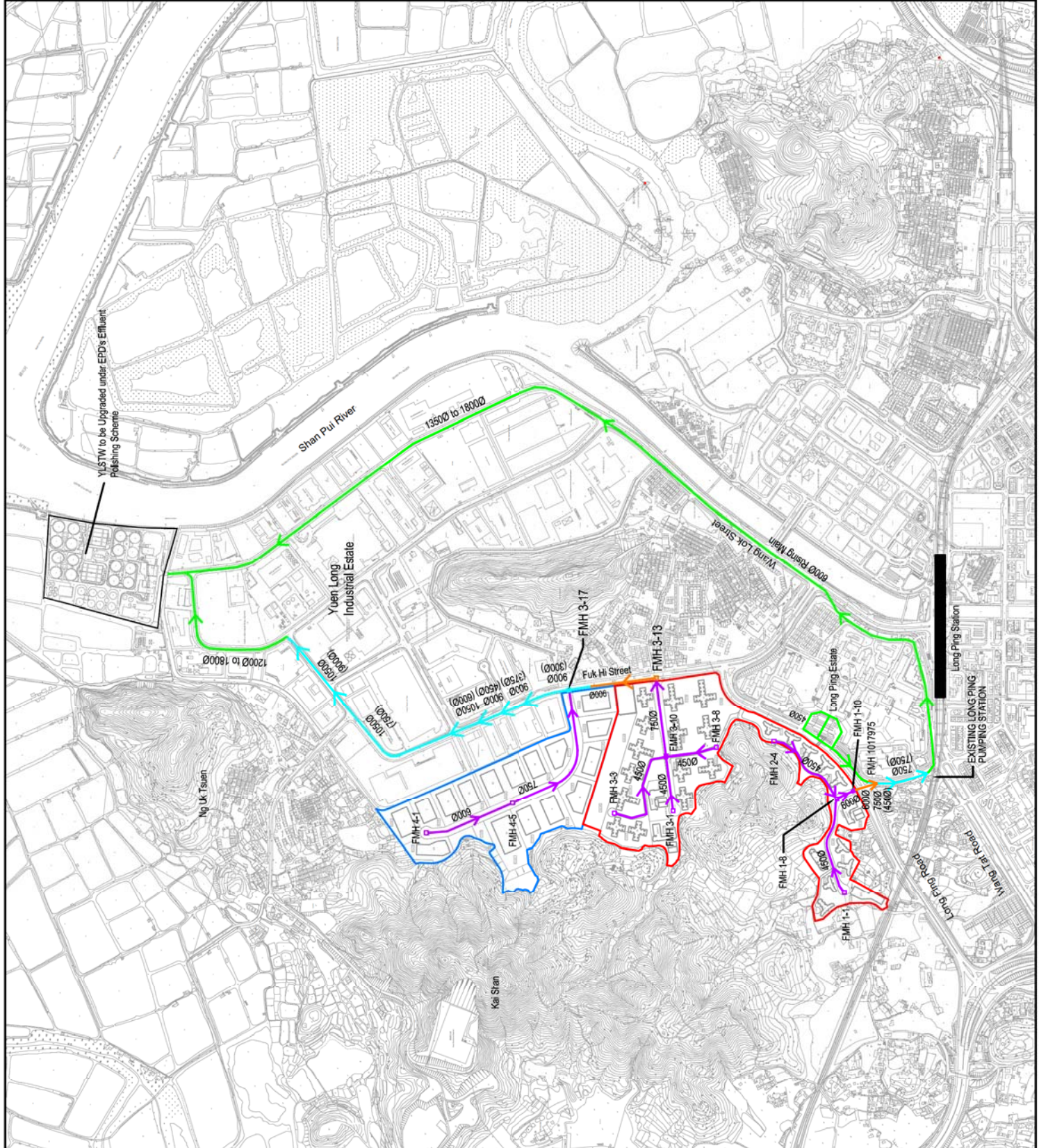


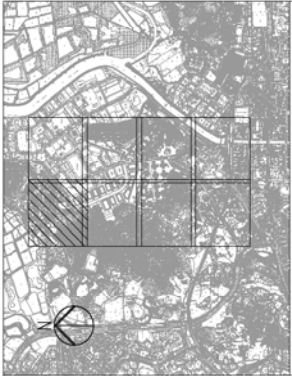
- LEGEND:**
- ▭ PUBLIC HOUSING SITE (PH SITE)
 - ▭ YUEN LONG INDUSTRIAL ESTATE EXTENSION (YULEE SITE)
 - ▭ EXISTING SEWERAGE TO REMAIN
 - ▭ EXISTING RISING MAIN
 - ▭ EXISTING DMGR SEWERAGE TO BE UPGRADED TO DN800/RECONSTRUCTED (4000)
 - ▭ PROPOSED OFFSITE SEWERAGE
 - ▭ PROPOSED ONSITE SEWERAGE

Rev			
EC	11/13	EC	11/13
Date		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			
OVERVIEW OF PROPOSED SEWERAGE			
Drawing no.	226464/OAP/C022	Rev.	
Drawn	EC	Checked	MB
Date	11/13	Approved	ST
Scale	N.T.S.	Status	PRELIMINARY
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LEGEND:

- PUBLIC HOUSING SITE (H SITE)
- YUEN LONG INDUSTRIAL ESTATE EXTENSION (ULEE SITE)
- EXISTING SEWERAGE MAIN
- EXISTING DNDS SEWERAGE TO BE UPGRADE TO UNBUILT/CONSTRUCTED
- PROPOSED SEWERAGE
- PROPOSED SEWERAGE MANHOLE

Rev	Description	EC	11/13	Date

Consultant

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
**PROPOSED SEWERAGE
 LAYOUT PLAN**

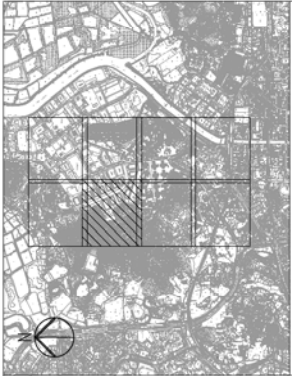
SHEET 1 OF 8

Drawing no.	226464/OAP/C/201	Rev.	
Drawn	EC	Date	11/13
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Scale	1:1000 (A1)	Status	PRELIMINARY

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LOCATION KEY PLAN

NOTES:
1. FOR LEGEND REFER TO DRAWING NO. 226464/0A/C/202.

Rev	Description	EC	By	Date
-	FIRST ISSUE	EC		11/13

Consultant
ARUP

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

Drawing title
**PROPOSED SEWERAGE
LAYOUT PLAN**

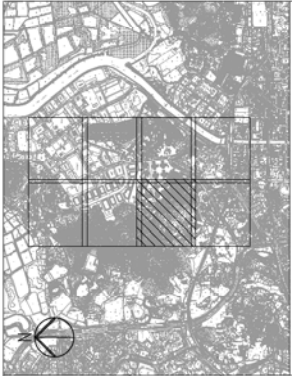
SHEET 2 OF 8

Drawing no.	226464/0A/C/202	Rev.	-
Drawn	EC	Date	11/13
Checked	MB	Approved	ST
Scale	1:1000 (A1)	Status	PRELIMINARY



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LOCATION KEY PLAN

NOTES:
1. FOR LEGEND REFER TO DRAWING NO. 2264640A/C/203.

Rev	DESCRIPTION	EC	BY	DATE
1	FIRST ISSUE	11/13		

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

Drawing title
PROPOSED SEWERAGE
LAYOUT PLAN

SHEET 3 OF 8

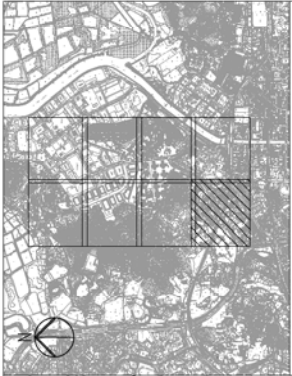
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Drawn	EC	Date	11/13
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Scale	1:1000 (A1)	Status	PRELIMINARY

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LOCATION KEY PLAN

NOTES:
1. FOR LEGEND REFER TO DRAWING NO. 226464/01/201.

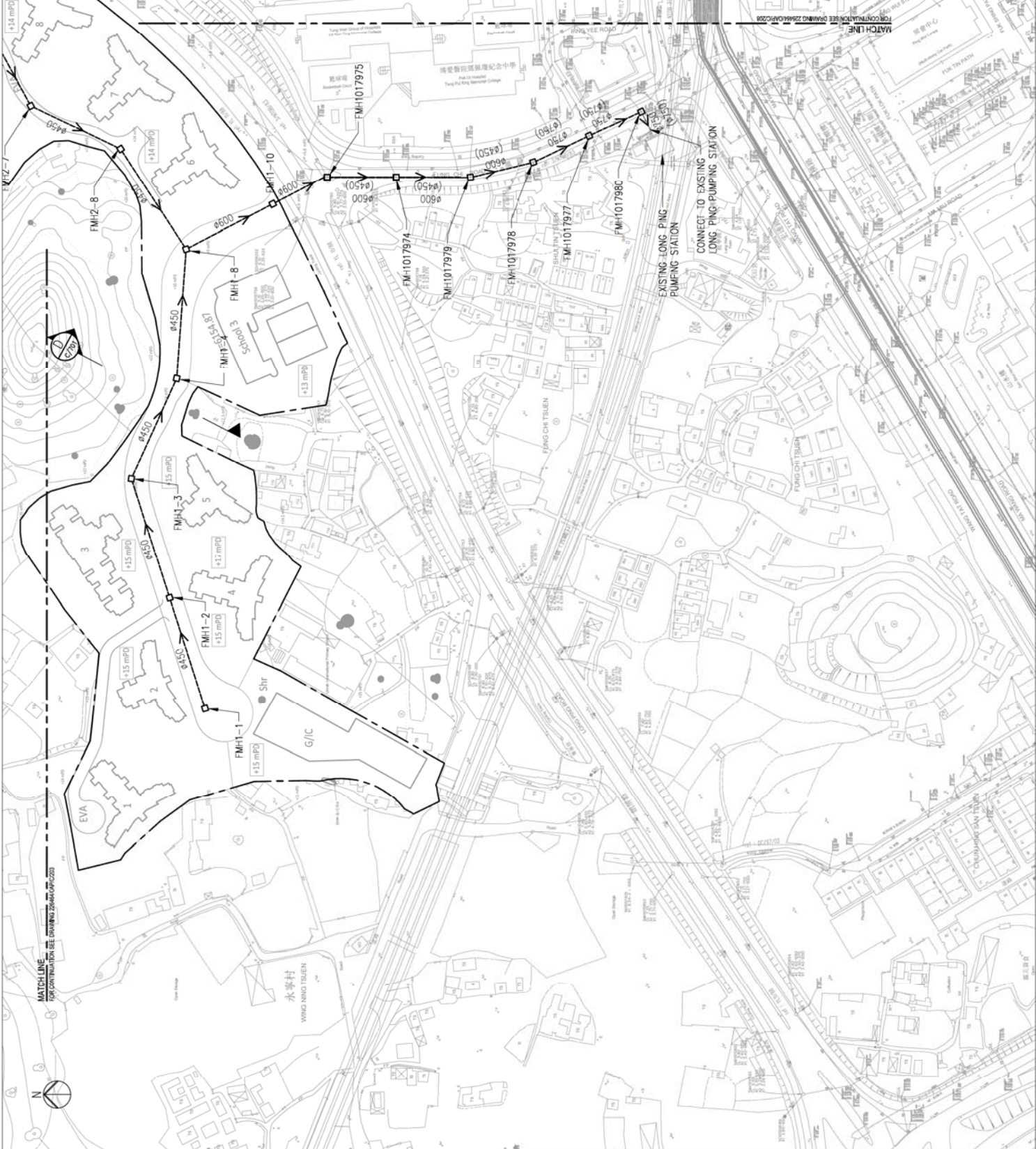
Rev	Description	By	Date
1	FIRST ISSUE	EC	11/13

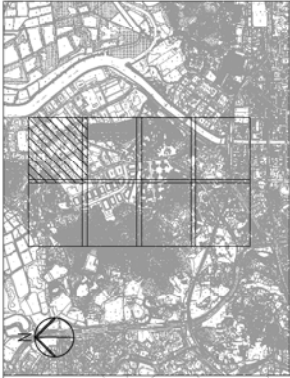
ARUP

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

Drawing title
PROPOSED SEWERAGE
LAYOUT PLAN

Drawing no.	226464/01/204	Rev.	
Drawn	EC	Date	11/13
Checked	MB	Approved	ST
Scale	1:1000 (A1)	Status	PRELIMINARY





LOCATION KEY PLAN

NOTES:
1. FOR LEGEND REFER TO DRAWING NO. Z28464/01C/201.

Rev	Description	EC	By	Date
-	FIRST ISSUE	11/13		

Consultant
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
**PROPOSED SEWERAGE
LAYOUT PLAN**

SHEET 5 OF 8

Drawing no.	228464/01C/205	Rev.	-
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LOCATION KEY PLAN

NOTES:
1. FOR NOTES AND LEGEND REFER TO DRAWING NO. Z86A/01/0201.

Rev	Description	EC	By	Date
-	FIRST ISSUE	EC		11/13

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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
**PROPOSED SEWERAGE
LAYOUT PLAN**

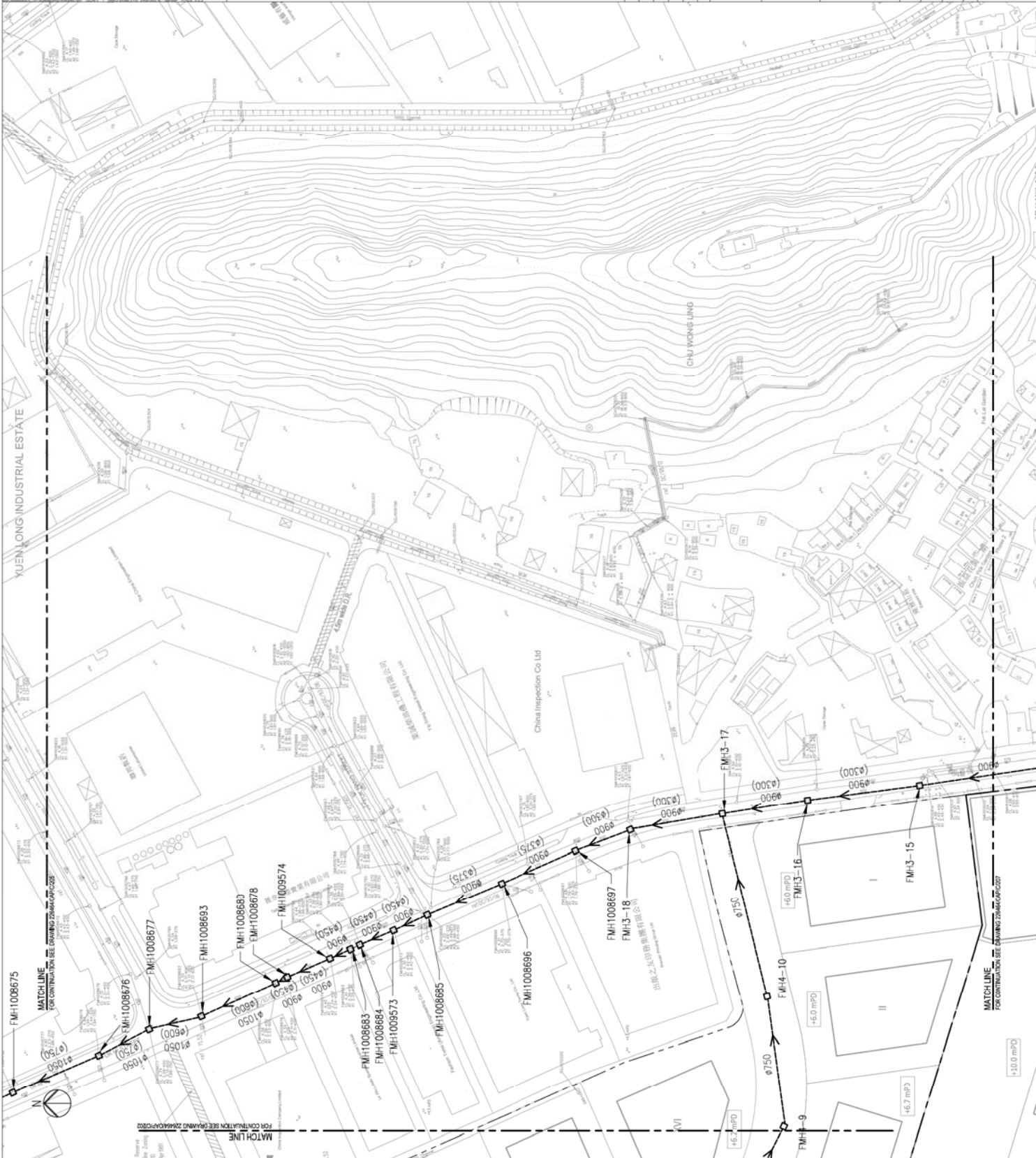
SHEET 6 OF 8

Drawing no.	226464/OAP/C/206	Rev.	-
Drawn	EC	Checked	MB
Date	11/13	Approved	ST
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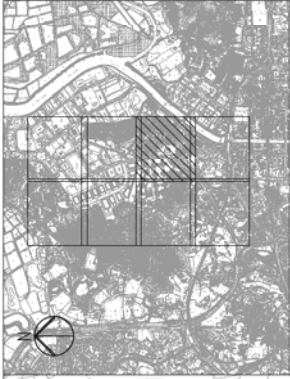


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FOR CONTINUATION SEE DRAWING NO. Z86A/01/0201



NOTES:
1. FOR NOTES AND LEGEND REFER TO DRAWING KC 28646A/C2/1.

Rev	DESCRIPTION	By	Date
1	FIRST ISSUE	EC	11/13

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
**PROPOSED SEWERAGE
LAYOUT PLAN**

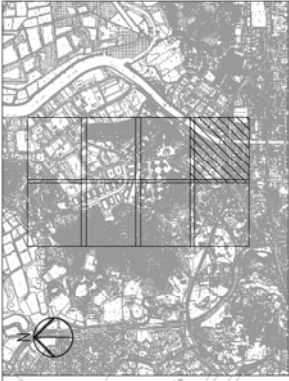
SHEET 7 OF 8

Drawing no.	226464/OA/P/C/207	Rev.	
Drawn	EC	Date	11/13
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Scale	1:1000 (A1)	Status	PRELIMINARY
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LOCATION KEY PLAN

NOTES:
1. FOR NOTES AND LEGEND REFER TO DRAWING NO. ZS66A/OP/C201.

Rev	Description	EC	11/13	Date

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

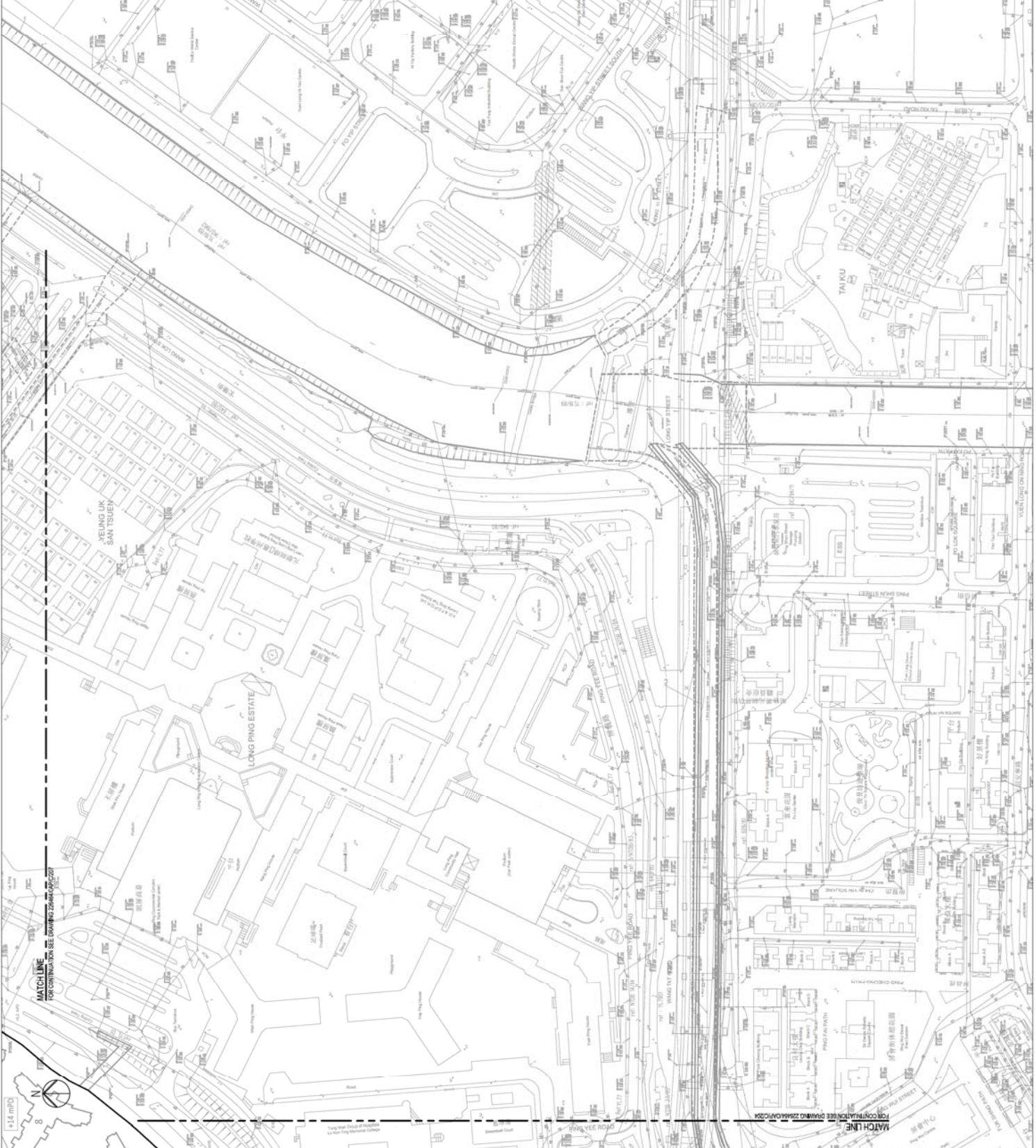
Drawing title
PROPOSED SEWERAGE
LAYOUT PLAN

SHEET 8 OF 8

Drawing no.	226464/OA/PC/208	Rev.	
Drawn	EC	Date	11/13
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MATCH LINE
FOR CONTINUATION SEE DRAWING NO. ZS66A/OP/C201



PROPOSED SEWER WITHIN PH SITE PHASE 1

MANHOLE NO.	DIAMETER		LENGTH (m)	GROUND LEVEL (mPD)		INVERT LEVEL (mPD)	GRADIENT	
	TO	FROM		U/S	D/S		D/S	1 in X
FMH 1-1	FMH 1-2	450	67	15.00	15.00	13.05	12.72	200
FMH 1-2	FMH 1-3	450	67	15.00	15.00	12.72	12.38	200
FMH 1-3	FMH 1-4	450	67	15.00	14.00	12.38	12.05	200
FMH 1-4	FMH 1-8	450	67	14.00	9.50	8.05	7.71	200
FMH 2-4	FMH 2-5	450	46	10.00	11.00	8.25	8.11	320
FMH 2-5	FMH 2-6	450	46	11.00	12.00	8.11	7.96	320
FMH 2-6	FMH 2-7	450	46	12.00	13.00	7.96	7.82	320
FMH 2-7	FMH 2-8	450	46	13.00	14.00	7.82	7.68	320
FMH 2-8	FMH 1-8	450	46	14.00	9.50	7.68	7.53	320
FMH 1-8	FMH 1-10	600	60	9.50	6.00	4.33	4.18	400

EXISTING SEWER ALONG FUNG CHI ROAD (CONNECT TO LONG PING SPS) - UPGRADED

MANHOLE NO.	DIAMETER		LENGTH (m)	GROUND LEVEL (mPD)		INVERT LEVEL (mPD)	GRADIENT	
	TO	FROM		U/S	D/S		D/S	1 in X
FMH 1-10	FMH 101/79/5	600	31	6.00	6.00	1.90	1.82	400
FMH 101/79/5	FMH 101/79/4	600	37	6.00	6.03	0.31	0.22	400
FMH 101/79/4	FMH 101/79/9	600	39	6.03	5.82	0.22	0.12	400
FMH 101/79/9	FMH 101/79/8	600	35	5.82	5.54	0.12	0.03	400
FMH 101/79/8	FMH 101/79/7	750	34	5.54	5.23	0.03	-0.05	400
FMH 101/79/7	FMH 101/79/6	750	31	5.23	4.96	-0.05	-0.13	388
FMH 101/79/6	FMH 101/79/1	750	11	4.96	5.04	-0.13	-0.16	388

PROPOSED SEWER FOR PH SITE PHASE 2 AND 3

MANHOLE NO.	DIAMETER		LENGTH (m)	GROUND LEVEL (mPD)		INVERT LEVEL (mPD)	GRADIENT	
	FROM	TO		U/S	D/S		D/S	1 in X
FMH 3-1	FMH 3-2	450	70	11.00	10.00	8.55	8.32	300
FMH 3-2	FMH 3-10	450	80	10.00	9.00	7.55	7.28	300
FMH 3-3	FMH 3-4	450	50	9.00	9.00	7.25	7.08	300
FMH 3-4	FMH 3-5	450	50	9.00	8.50	7.08	6.92	300
FMH 3-5	FMH 3-6	450	80	8.50	8.50	6.92	6.65	300
FMH 3-6	FMH 3-7	450	70	8.50	8.00	6.65	6.42	300
FMH 3-7	FMH 3-10	450	40	8.00	9.00	6.42	6.28	300
FMH 3-8	FMH 3-9	450	70	9.00	9.00	7.25	7.02	300
FMH 3-9	FMH 3-10	450	60	9.00	9.00	7.02	6.82	300
FMH 3-10	FMH 3-11	750	60	9.00	7.70	5.78	5.68	600
FMH 3-11	FMH 3-12	750	70	7.70	6.20	4.28	4.17	600
FMH 3-12	FMH 3-13	750	80	6.20	4.20	2.37	2.23	600
FMH 3-13	FMH 3-14	900	60	4.20	4.60	2.13	2.06	780
FMH 3-14	FMH 3-15	900	60	4.60	4.70	2.06	1.98	780
FMH 3-15	FMH 3-16	900	60	4.70	4.60	1.98	1.90	780
FMH 3-16	FMH 3-17	900	55	4.60	4.50	1.90	1.83	780

PROPOSED SEWER WITHIN YLJIE

MANHOLE NO.	DIAMETER		LENGTH (m)	GROUND LEVEL (mPD)		INVERT LEVEL (mPD)	GRADIENT	
	FROM	TO		U/S	D/S		D/S	1 in X
FMH 4-1	FMH 4-2	600	65	6.70	6.70	4.80	4.64	400
FMH 4-2	FMH 4-3	600	60	6.70	6.70	4.64	4.49	400
FMH 4-3	FMH 4-4	600	60	6.70	6.70	4.49	4.34	400
FMH 4-4	FMH 4-5	600	60	6.70	6.70	4.34	4.19	400
FMH 4-5	FMH 4-6	750	70	6.70	6.70	4.19	3.99	350
FMH 4-6	FMH 4-7	750	70	6.70	6.70	3.99	3.79	350
FMH 4-7	FMH 4-8	750	70	6.70	6.70	3.79	3.59	350
FMH 4-8	FMH 4-9	750	70	6.70	6.70	3.59	3.39	350
FMH 4-9	FMH 4-10	750	58	5.93	5.29	3.39	3.22	350
FMH 4-10	FMH 3-17	750	70	5.29	4.50	3.22	3.02	350
FMH 3-17	FMH 3-18	900	30	4.50	4.20	1.83	1.79	780

EXISTING SEWER ALONG FUK HI STREET (CONNECT TO YLSTW) - UPGRADED

MANHOLE NO.	DIAMETER		LENGTH (m)	GROUND LEVEL (mPD)		INVERT LEVEL (mPD)	GRADIENT	
	FROM	TO		U/S	D/S		D/S	1 in X
FMH 3-18	FMH 1008697	900	40	4.20	3.43	1.79	1.74	740
FMH 1008697	FMH 1008696	900	43	4.48	4.31	1.79	1.74	740
FMH 1008696	FMH 1008685	900	43	4.31	4.25	1.74	1.68	740
FMH 1008685	FMH 1009573	900	20	4.25	4.30	1.68	1.65	740
FMH 1009573	FMH 1008684	900	20	4.30	4.35	1.65	1.62	740
FMH 1008684	FMH 1008683	900	5	4.35	4.40	1.62	1.62	740
FMH 1008683	FMH 1009574	900	13	4.40	4.45	1.62	1.60	740
FMH 1009574	FMH 1008678	900	25	4.45	4.54	1.60	1.57	740
FMH 1008678	FMH 1008680	900	6	4.54	4.56	1.57	1.56	740
FMH 1008680	FMH 1008693	1050	44	4.56	4.70	1.56	1.51	950
FMH 1008693	FMH 1008677	1050	30	4.70	4.70	1.51	1.48	950
FMH 1008677	FMH 1008676	1050	30	4.74	4.63	1.48	1.45	950
FMH 1008676	FMH 1008675	1050	50	4.63	4.64	1.45	1.39	950
FMH 1008675	FMH 1008674	1050	50	4.64	4.41	1.39	1.34	950
FMH 1008674	FMH 1008647	1050	40	4.41	4.32	1.34	1.30	950
FMH 1008647	FMH 1008648	1050	27	4.32	4.24	1.30	1.27	950
FMH 1008648	FMH 1008649	1050	40	4.24	4.13	1.27	1.23	950
FMH 1008649	FMH 1008643	1050	48	4.13	4.04	1.23	1.18	950
FMH 1008643	FMH 1008644	1050	52	4.04	4.19	1.18	1.12	950
FMH 1008644	FMH 1009399	1050	6	4.19	4.02	1.12	1.12	950
FMH 1009399	FMH 1008645	1050	43	4.02	4.33	1.12	1.07	950
FMH 1008645	FMH 1008646	1050	5	4.33	4.30	1.07	1.07	950
FMH 1008646	FMH 1008626	1050	43	4.30	4.48	1.07	1.02	950
FMH 1008626	FMH 1008627	1050	51	4.48	4.34	1.02	0.97	950
FMH 1008627	FMH 1008628	1050	38	4.34	4.21	0.97	0.93	950
FMH 1008628	FMH 1008629	1050	45	4.21	4.08	0.93	0.88	950
FMH 1008629	FMH 1008630	1050	11	4.08	4.08	0.88	0.87	950
FMH 1008630	FMH 1008582	1050	35	4.08	3.97	0.87	0.83	950

Rev Description By Date

EC 11/13

ARUP

Project title
 Agreement No. CB201/2020/3
 Planning and Engineering Study for the Public Housing Site
 and Yuen Long Industrial Estate Extension at Wang Chau
 Drawing title
 MANHOLE SCHEDULE FOR
 PROPOSED SEWERAGE SYSTEM

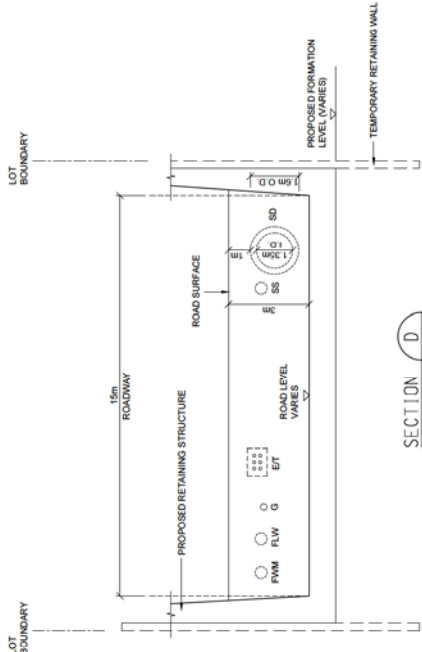
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EC	11/13					
Scale	N.T.S.	Status	PRELIMINARY			

NOTES:

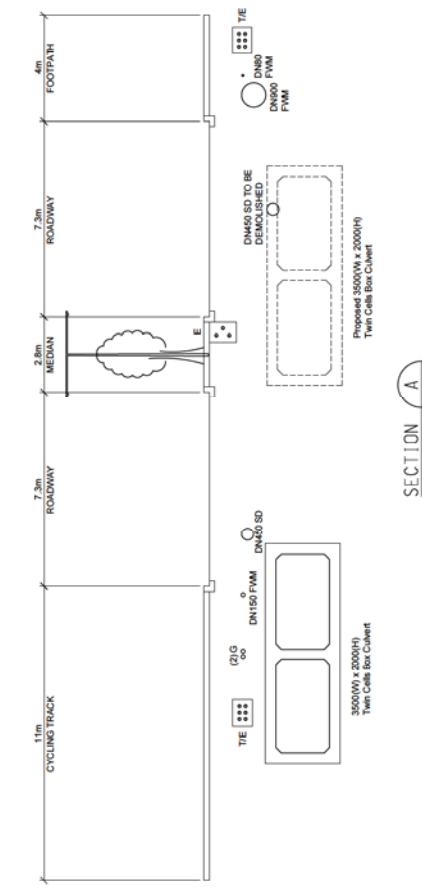
- 1. UTILITIES SHOWN IN THIS DRAWING ARE INDICATIVE ONLY BASED ON AVAILABLE INFORMATION OBTAINED FROM UTILITY UNDERTAKERS. THE EXACT DETAILS INCLUDING DEPTHS, LEVELS AND LEVELS TO BE FURTHER VERIFIED AT DETAILED DESIGN.

LEGEND:

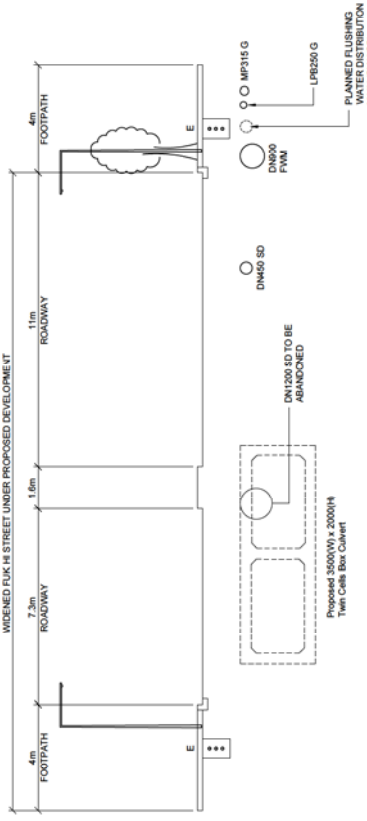
- FWM FRESH WATER
- FLM FLUSHING WATER
- SS SANITARY SEWER
- SD STORM DRAIN
- E ELECTRICAL
- TELECOM TELECOM
- MPG MEDIUM PRESSURE GAS
- LPG LOW PRESSURE GAS
- LPG OUT DIAMETER
- LPG INNER DIAMETER
- EXISTING UTILITIES
- PROPOSED UTILITIES



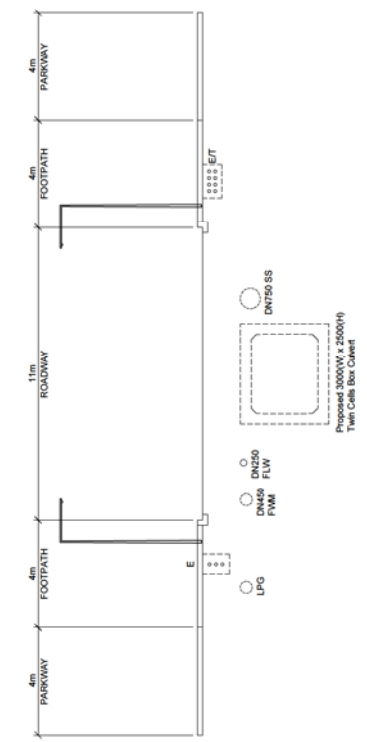
SECTION D
SCALE N.T.S.
PH SOUTH ENTRY



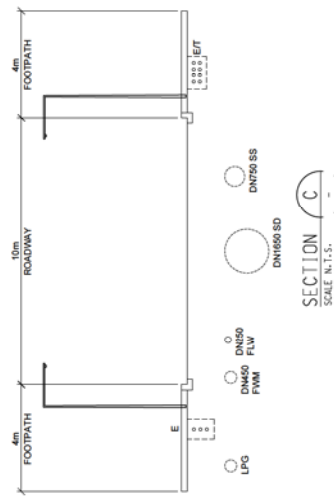
SECTION A
SCALE N.T.S.
FUK HI STREET



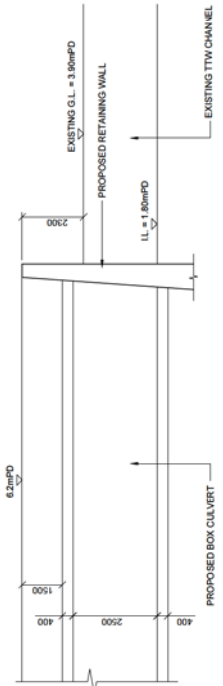
SECTION B
SCALE N.T.S.
FUK HI STREET



SECTION E
SCALE N.T.S.
YLIEE ENTRY



SECTION C
SCALE N.T.S.
PH NORTH ENTRY



SECTION D
SCALE N.T.S.
CONNECTION TO EXISTING TTW CHANNEL

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

Rev	Description	By	Date
-	FIRST ISSUE	EC	11/13

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Date	11/13	Approved	ST
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HONG KONG HOUSING AUTHORITY