

Your ref:
Our ref: (CV/2012/08)/M45/010/(F00146)

13 March 2014

By Hand

Environmental Impact Assessment Ordinance Register Office
Environmental Protection Department
27/F, Southorn Centre,
130 Hennessy Road,
Wanchai, Hong Kong

Attn: Mr. Charles Pang

Dear Sirs,

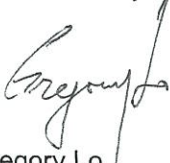
Contract No. CV/2012/08
Liantang / Heung Yuen Wai Boundary Control Point -
Site Formation and Infrastructure Works – Contract 2

Environmental Permit No. EP-404/2011/A
Condition 2.7 - Project Layout Plan

With reference to Condition 2.7 of Environmental Permit (EP) No. EP- 404/2011/A, and on behalf of the Permit Holder, Civil Engineering and Development Department (CEDD), I would like to submit 3 hard copies of the Project Layout Plan and respective works programme with explanatory notes for Contract 2 of the Project titled "Liantang / Heung Yuen Wai Boundary Control Point and Associated Works", which had been certified by the ET Leader and verified by the IEC, for your approval.

Should you have any queries, please contact our Resident Engineer Mr. Perry Yam at 2659 8810.

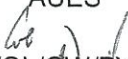
Yours faithfully,



Gregory Lo
Senior Resident Engineer
AECOM Asia Co. Ltd.

Encl.

c.c. CEDD/BCP – Attn: Mr. B. K. Chow
AECOM – Attn: Mr. Francis Leong / Ms. Cherry Yau
DHK – Attn: Mr. Raymond Cheng
SMEC – Attn: Mr. Anthony Wong (Fax No. 3995 8101)
AUES – Attn: Mr. T. W. Tam (Fax No. 2959 6079)


CTW/GL/GW/RX/LQR/ptk

FAXED
13-3-2014

Our Ref: TCS00670/13/300/L0136

AECOM
8/f Grand Central Plaza, Tower 2
138 Shatin Rural Committee Road
Shatin, Hong Kong

Attn: Mr Gregory Lo
Engineer's Representative

12 March 2014
By E-mail and By Post

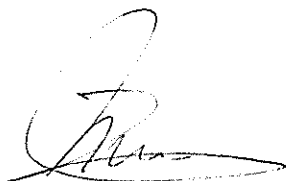
Dear Sir,

Re: Agreement No. CE 45/2008 (CE)
Liantang/ Heung Yuen Wai Boundary Control Point and Associated Works
Project Layout Plan of Contract 2 (CV/2012/08)

With reference to the captioned documents received on 11 March 2014, we have no adverse comments. We herewith certify the Project Layout Plan of Contract 2 (CV/2012/08) in accordance with Condition 2.7 of Environmental Permit No. EP-404/2011/A.

Should you have any question or require further information, please feel free to contact the undersigned at Tel: 2959-6059 or Fax: 2959-6079 or E-mail: twtam@fordbusiness.com.

Yours sincerely,
For and on Behalf of
Action-United Environmental Services & Consulting



T. W. Tam
Environmental Team Leader
TW/nh/jk

cc CEDD/BCP
SMEC (IEC)

Mr Pui Sang LI
Mr Antony Wong

fax: 2714 0103
fax: 3995 8101



SMEC ASIA LIMITED
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Cheung Sha Wan, Kowloon, Hong Kong
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12 March 2014

Our ref: 7076192/L15579/RV/AB/AW/rw
Your ref:

AECOM,
8/F, Grand Central Plaza, Tower 2,
138 Shatin Rural Committee Road,
Shatin, N.T.

By Email & Post

Attention: Mr Gregory LO

Dear Sirs

Agreement No. CE 45/2008 (CE)
Liantang/Heung Yuen Wai Boundary Control Point and Associated Works
Independent Environmental Checker – Investigation
Project Layout Plans of Contract 2 (CV/2012/09)

Reference is made to the following documents received on 11 (items 1-3) and 12 March 2014:

1. General Layouts (Drawing Nos. 60212563/C2/TEMP1001 to 60212563/C2/TEMP1010);
2. Explanatory Notes for Works Schedule for Contract No. CV/2012/08 – Contract 2;
3. Initial Works Programme for Contract No. CV/2012/08 – Contract 2 dated 18 December 2013; and
4. The ET Leader's certification (ET's ref.: TCS00670/13/300/ L0136) dated 12 March 2014.

Please be noted that we have no adverse comments on the captioned submission. We herewith verify the Project Layout Plans of Contract 2 (CV/2012/08) of the captioned Project in accordance with Condition 2.7 of Environmental Permit No. EP-404/2011/A.

Thank you for your attention and please do not hesitate to contact the undersigned on tel. 3995 8120 or by email to antony.wong@smec.com; or our Ms Winnie MA on tel. 3995 8138 or by email to winnie.ma@smec.com.

Yours faithfully
For and on behalf of
SMEC Asia Limited


Antony WONG
Independent Environmental Checker

cc CEDD/BCP - Mr Pui Sang LI by fax: 2714 0103
AECOM - Mr Leo IP / Ms Cherry YAU by email
AUES - Mr TW TAM by email

**Liantang / Heung Yuen Wai Boundary Control Point
and Site Formation and Infrastructure Works –
Contract 2**

Environmental Permit (EP No.: EP- 404/2011/A)

Project Layout Plan

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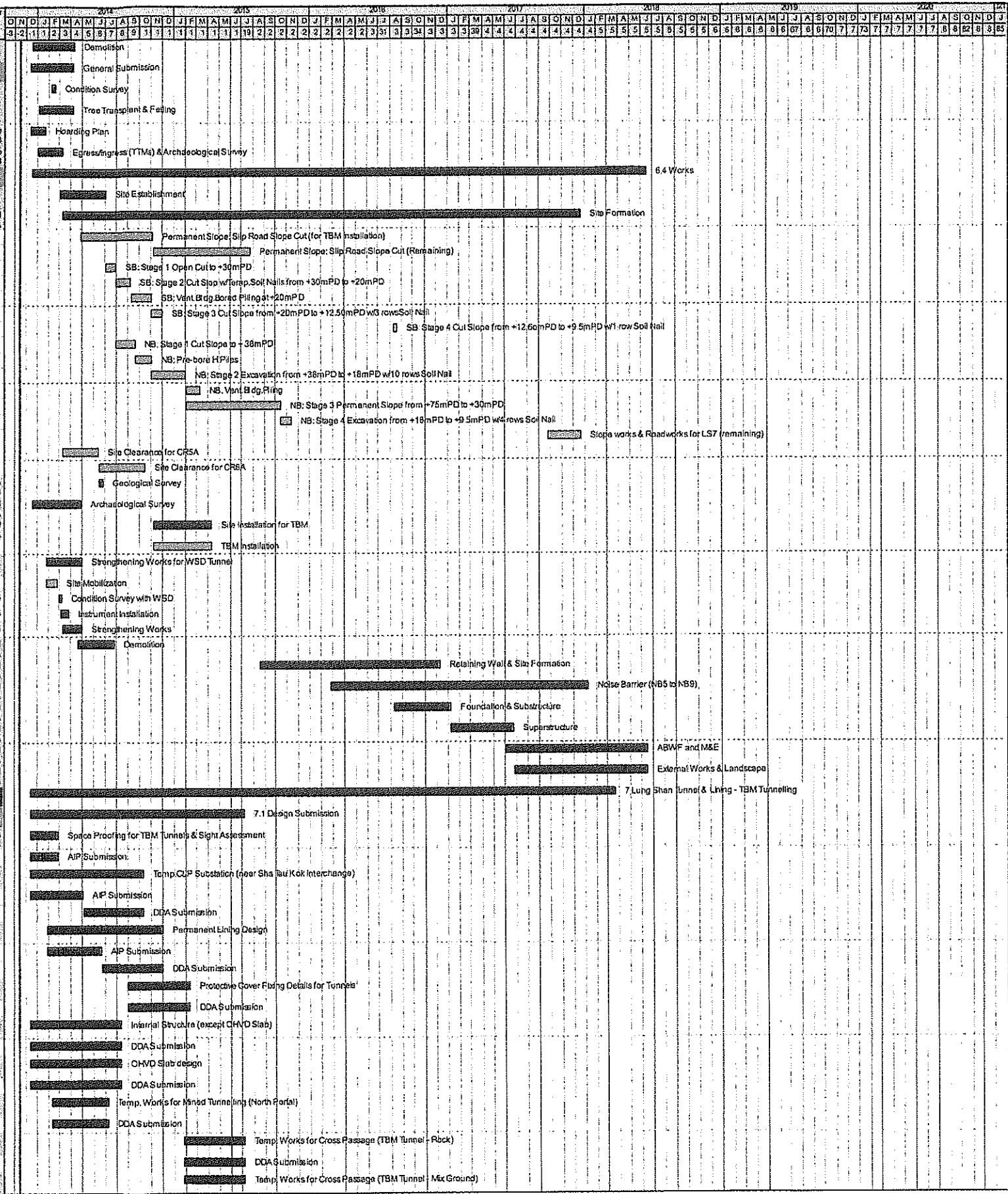
Liantang / Heung Yuen Wai boundary Control Point Site Formation and Infrastructure Works – Contract 2 (Contract No. CV/2012/08)

Explanatory notes for works schedule

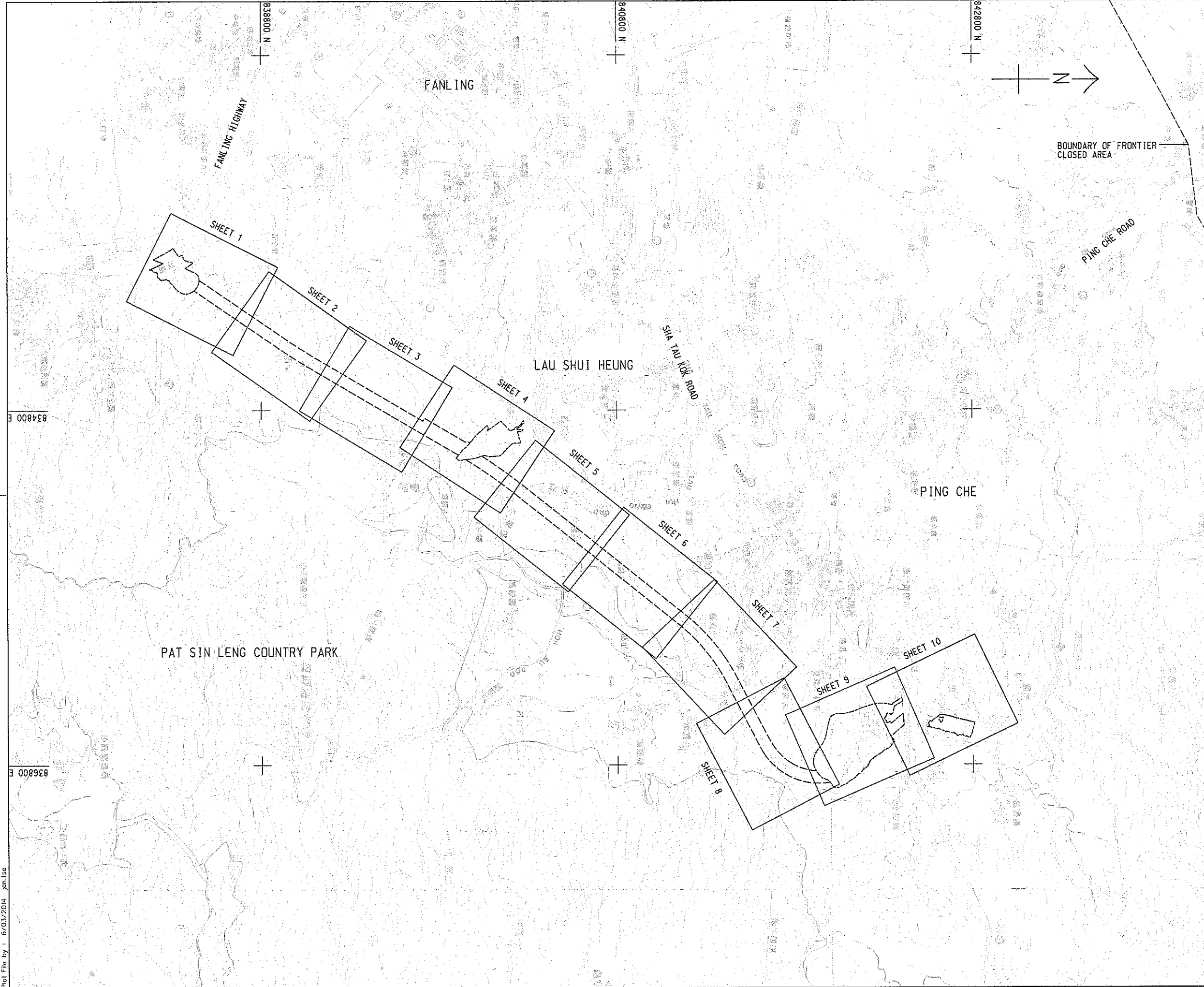
The Works to be executed under Contract 2 include the following major items:

- (i) Construction of an approximately 5.4km long dual two-lane trunk road (with about 0.6km of at-grade road and 4.8km of Lung Shan Tunnel) connecting the proposed Sha Tau Kok Road Interchange near Loi Tung and the proposed Fanling Highway Interchange near Kau Lung Hang;
- (ii) Construction of a total of 3 ventilation buildings (at north and south portals of Lung Shan tunnel and one at Po Kat Tsai) and the associated building services works;
- (iii) Construction of an administration building and the associated building services works at Shan Tong for tunnel operation;
- (iv) Provision of electrical and mechanical systems for Lung Shan tunnel;
- (v) Provision of electrical and mechanical systems for Cheung Shan tunnel (civil works to be constructed by others);
- (vi) Provision of building services works for the 2 ventilation buildings at portals of Cheung Shan tunnel (civil works to be constructed by others);
- (vii) Construction of road improvement works at Lau Shui Heung Road;
- (viii) Strengthening works within existing Nam Chung water tunnel;
- (ix) Associated environmental mitigation measures for the works.

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Calendar
	Demolition	90	20-Dec-13	11-Apr-14	215	
	General Submission	92	13-Dec-13	07-Apr-14	21	
	Condition Survey	9	07-Feb-14	17-Feb-14	22	
	Tree Transplant & Felling	74	07-Jan-14	07-Apr-14	29	
	Hoarding Plan	33	13-Dec-13	23-Jan-14	39	LHYW 6d w/o weather CAL.3
	Egress/Ingress (TTMs) & Archaeological Survey	54	03-Jan-14	10-Mar-14	2	LHYW 6d w/o weather CAL.3
	6.4 Works	1028	20-Dec-13	18-Jun-18	11	
	Site Establishment	97	04-Mar-14	03-Jul-14	2	
	Site Formation	1073	11-Mar-14	20-Dec-17	144	LHYW 6d w/o weather CAL.3
N20495	Permanent Slope: Slip Road Slope Cut (for TBM Installation)	150	29-Apr-14	07-Nov-14	8	LHYW 6d
N20505	Permanent Slope: Slip Road Slope Cut (Remaining)	200	06-Nov-14	25-Jul-15	117	LHYW 6d
N20515	SB: Stage 1 Open Cut to +30mPD	22	04-Jul-14	31-Jul-14	2	LHYW 6d
N20525	SB: Stage 2 Cut Slope w/Temp. Soil Nails from +30mPD to +20mPD	30	01-Aug-14	08-Sep-14	2	LHYW 6d
N20535	SB: Vent. Bldg Bored Piling at +20mPD	46	10-Sep-14	04-Nov-14	107	LHYW 6d
N20545	SB: Stage 3 Cut Slope from +20mPD to +12.50mPD w/3 rows Soil Nail	24	05-Nov-14	02-Dec-14	107	LHYW 6d
N20555	SB: Stage 4 Cut Slope from +12.50mPD to +9.5mPD w/1 row Soil Nail	8	12-Aug-16	20-Aug-16	9	LHYW 6d
N20815	NB: Stage 1 Cut Slope to +38mPD	40	01-Aug-14	20-Sep-14	39	LHYW 6d
N20625	NB: Pre-bore HPI Piles	36	22-Sep-14	04-Nov-14	39	LHYW 6d
N20635	NB: Stage 2 Excavation from +38mPD to +18mPD w/10 rows Soil Nail	74	05-Nov-14	02-Feb-15	39	LHYW 6d
N20645	NB: Vent. Bldg Piling	26	03-Feb-15	11-Mar-15	41	LHYW 6d
N20655	NB: Stage 3 Permanent Slope from +75mPD to +30mPD	192	03-Feb-15	14-Oct-15	39	LHYW 6d
N20665	NB: Stage 4 Excavation from +18mPD to +9.5mPD w/4 rows Soil Nail	24	15-Oct-15	12-Nov-15	39	LHYW 6d
N20675	Slope works & Roadworks for LS7 (remaining)	72	25-Sep-17	20-Dec-17	144	LHYW 6d
N20685	Site Clearance for CR5A	72	11-Mar-14	14-Jun-14	62	LHYW 6d
N20695	Site Clearance for CR6A	96	16-Jun-14	16-Oct-14	62	LHYW 6d
	Geological Survey	9	17-Jun-14	26-Jun-14	7	LHYW 6d w/o weather CAL.3
	Archaeological Survey	96	20-Dec-13	28-Apr-14	10	LHYW 6d w/o weather CAL.3
	Site Installation for TBM	120	08-Nov-14	11-Apr-15	8	LHYW 6d w/o weather CAL.3
SCD1310	TBM Installation	120	08-Nov-14	11-Apr-15	8	LHYW 6d
	Strengthening Works for WSD Tunnel	74	27-Jan-14	30-Apr-14	0	
DSN018303	Site Mobilization	18	27-Jan-14	24-Feb-14	4	LHYW 6d
DSN018305	Condition Survey with WSD	6	01-Mar-14	07-Mar-14	0	LHYW WSD Cal.5
DSN018310	Instrument Installation	18	05-Mar-14	25-Mar-14	0	LHYW WSD Cal.5
DSN018320	Strengthening Works	39	12-Mar-14	30-Apr-14	0	LHYW WSD Cal.5
	Demolition	72	22-Apr-14	26-Jul-14	200	LHYW 6d w/o weather CAL.3
	Retaining Wall & Site Formation	375	20-Aug-15	09-Dec-16	161	LHYW 6d w/o weather CAL.3
	Noise Barrier (NB5 to NB9)	533	24-Feb-16	08-Jan-18	2	LHYW 6d w/o weather CAL.3
	Foundation & Substructure	119	12-Aug-16	05-Jan-17	1	LHYW 6d w/o weather CAL.3
	Superstructure	126	07-Jan-17	23-Jun-17	1	LHYW 6d w/o weather CAL.3
	ABWF and M&E	297	01-Jun-17	16-Jun-18	1	LHYW 6d w/o weather CAL.3
	External Works & Landscape	278	24-Jun-17	15-Jun-18	2	LHYW 6d w/o weather CAL.3
	7 Lung Shan Tunnel & Lining - TBM Tunnelling	1263	13-Dec-13	21-Mar-18	0	
	7.1 Design Submission	136	17-Dec-13	08-Jun-15	139	
	Space Proofing for TBM Tunnels & Sight Assessment	58	13-Dec-13	25-Feb-14	0	LHYW 6d w/o weather CAL.3
	AIP Submission	58	13-Dec-13	25-Feb-14	0	LHYW 6d w/o weather CAL.3
	Temp. CLP Substation (near Sha Tau Kok interchange)	243	13-Dec-13	13-Oct-14	66	
	AIP Submission	111	13-Dec-13	03-May-14	3	
	DDA Submission	132	05-May-14	13-Oct-14	66	
	Permanent Lining Design	250	28-Jan-14	01-Dec-14	35	
	AIP Submission	115	28-Jan-14	21-Jun-14	38	
	DDA Submission	135	23-Jun-14	01-Dec-14	35	
	Protective Cover Fixing Details for Tunnels	135	01-Sep-14	11-Feb-15	140	
	DDA Submission	135	01-Sep-14	11-Feb-15	140	
	Internal Structure (except OHVD Slab)	196	13-Dec-13	14-Aug-14	125	
	DDA Submission	196	13-Dec-13	14-Aug-14	125	
	OHVD Slab design	196	13-Dec-13	14-Aug-14	125	
	DDA Submission	196	13-Dec-13	14-Aug-14	125	
	Temp. Works for Mined Tunnelling (North Portal)	121	10-Feb-14	09-Jul-14	54	
	DDA Submission	121	10-Feb-14	09-Jul-14	54	
	Temp. Works for Cross Passage (TBM Tunnel - Rock)	127	27-Jan-15	06-Jul-15	139	
	DDA Submission	127	27-Jan-15	06-Jul-15	139	
	Temp. Works for Cross Passage (TBM Tunnel - Mix Ground)	127	27-Jan-15	06-Jul-15	139	




<ul style="list-style-type: none"> Non Critical Activity Critical Activity Milestone Summary 	<p>LHYW_09-1</p> <p>LIANTANG/ HYW BOUNDARY CONTROL POINT</p> <p>SITE FORMATION & INFRASTRUCTURE WORKS - CONTRACT 2</p> <p>INITIAL WORKS PROGRAMME</p>	<table border="1"> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> <tr> <td>18-Dec-13</td> <td>REVA</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>	Date	Revision	Checked	Approved	18-Dec-13	REVA										
Date	Revision	Checked	Approved															
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LEGEND:
 - - - - - SITE BOUNDARY
 - - - - - UNDERGROUND SITE BOUNDARY

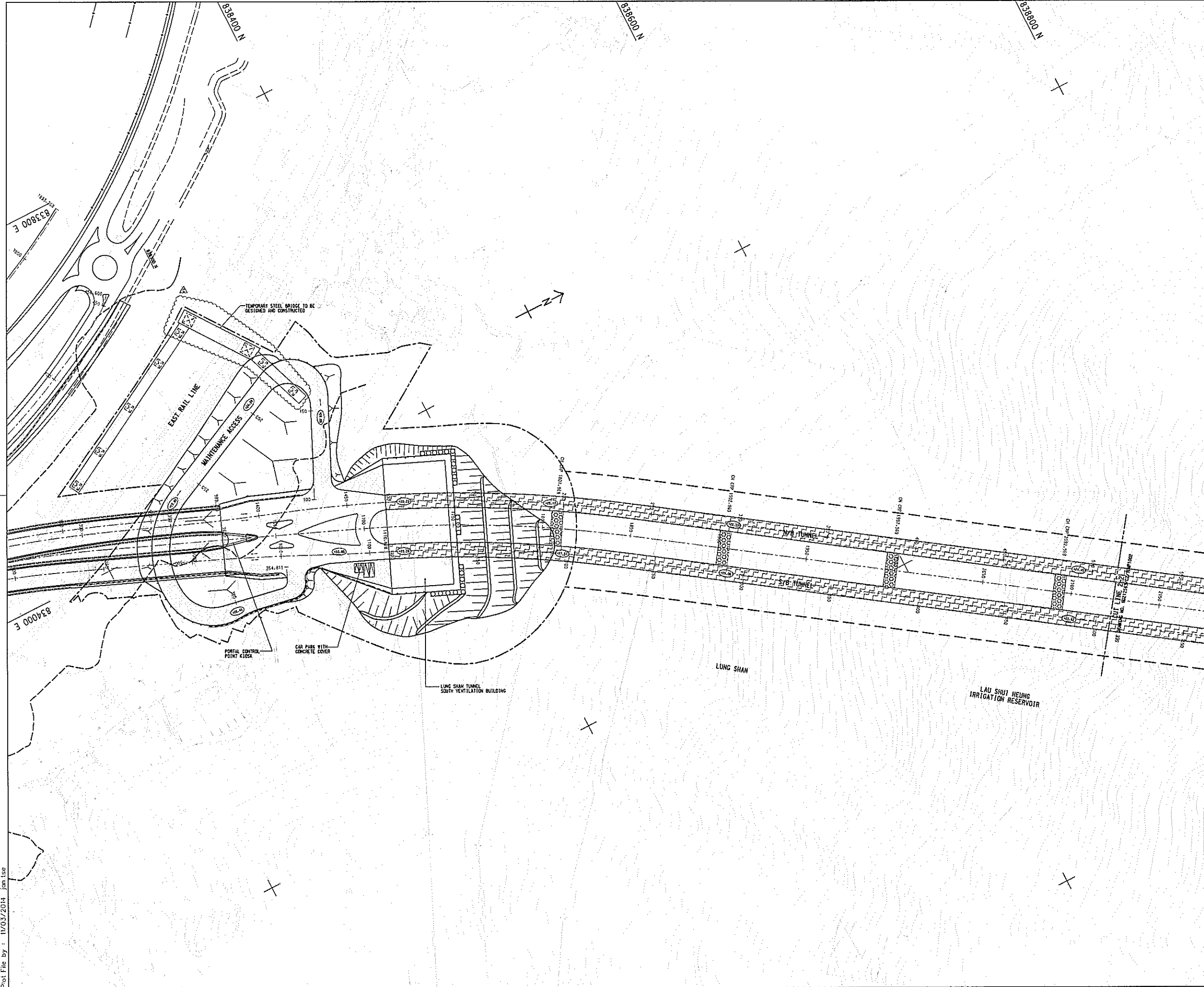
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土木工程拓展署
 Civil Engineering and
 Development Department
 LIANTANG/HEUNG YUEN WAI BOUNDARY CONTROL POINT
 SITE FORMATION AND INFRASTRUCTURE WORKS -
 CONTRACT 2
KEY PLAN
 (FOR 1:1000 DRAWINGS)

AECOM

DRG. NO. 60212563/C2/TEMP1000	
DESIGNED BY 圖紙編號	CONTRACT NO. CV/2012/08
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NOTES:
 1. ALL LEVELS SHOWN ARE INDICATIVE ONLY.

LEGEND:
 - - - - - SITE BOUNDARY
 - - - - - UNDERGROUND SITE BOUNDARY
 - - - - - EXTENT OF MTR PROTECTION ZONE

REV.	DESCRIPTION	BY	CHK.	DATE

CEDD 土木工程拓展署
 Civil Engineering and
 Development Department

Liantang/Heung Yuen Wai Boundary Control Point
 Site Formation and Infrastructure Works -
 Contract 2

GENERAL LAYOUT

SHEET 1 OF 10



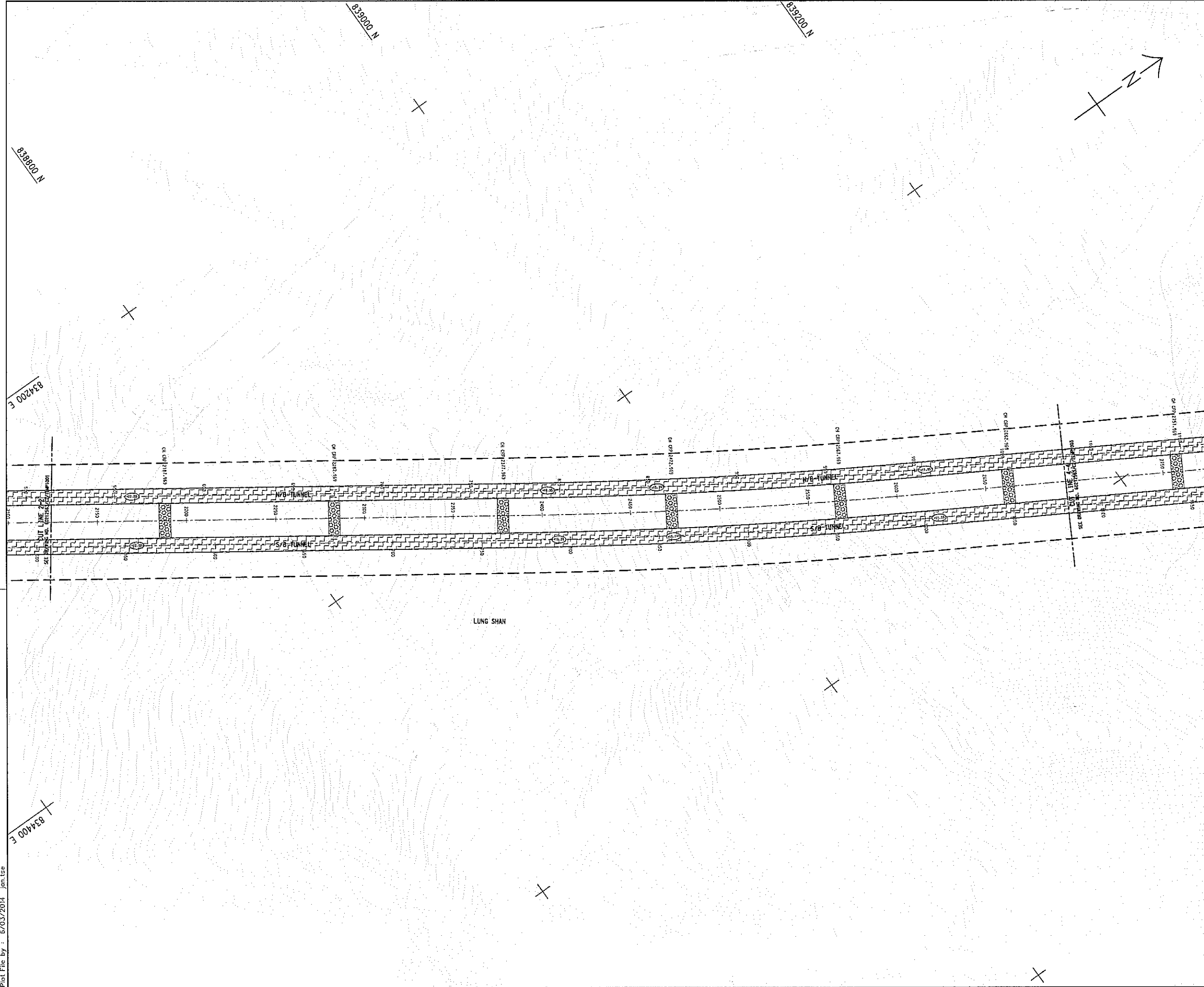
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 Civil Engineering and Development Department

LIANTANG/HEUNG YUEN WAI BOUNDARY CONTROL POINT
 SITE FORMATION AND INFRASTRUCTURE WORKS - CONTRACT 2

GENERAL LAYOUT
 SHEET 2 OF 10

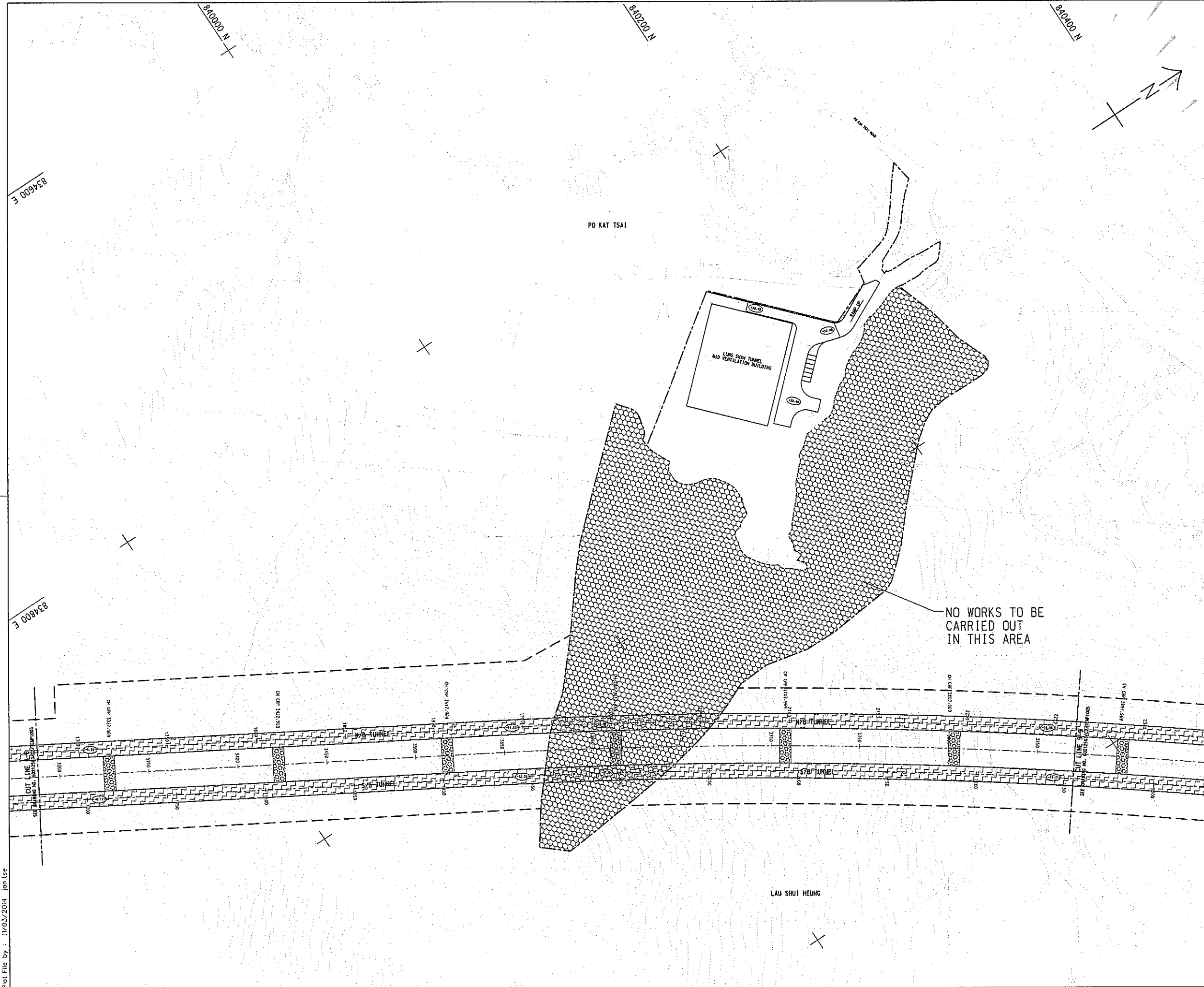


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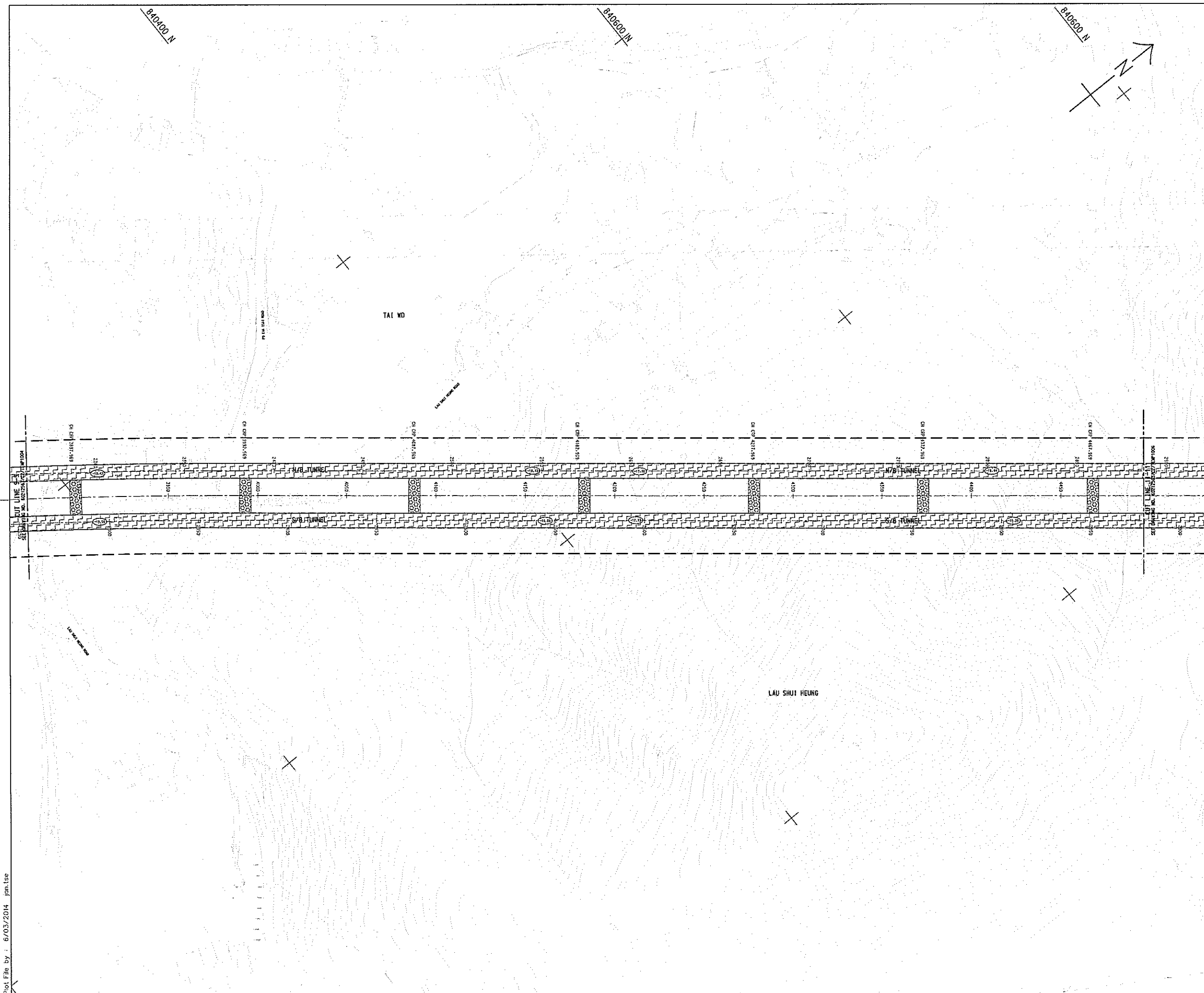

土木工程拓展署
 Civil Engineering and Development Department
 LIANTANG/HEUNG YUEN WAI BOUNDARY CONTROL POINT SITE FORMATION AND INFRASTRUCTURE WORKS - CONTRACT 2
GENERAL LAYOUT
 SHEET 4 OF 10

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 Civil Engineering and Development Department

L'ANTANG/HEUNG YUEN WAI BOUNDARY CONTROL POINT
 SITE FORMATION AND INFRASTRUCTURE WORKS -
 CONTRACT 2

GENERAL LAYOUT
 SHEET 5 OF 10

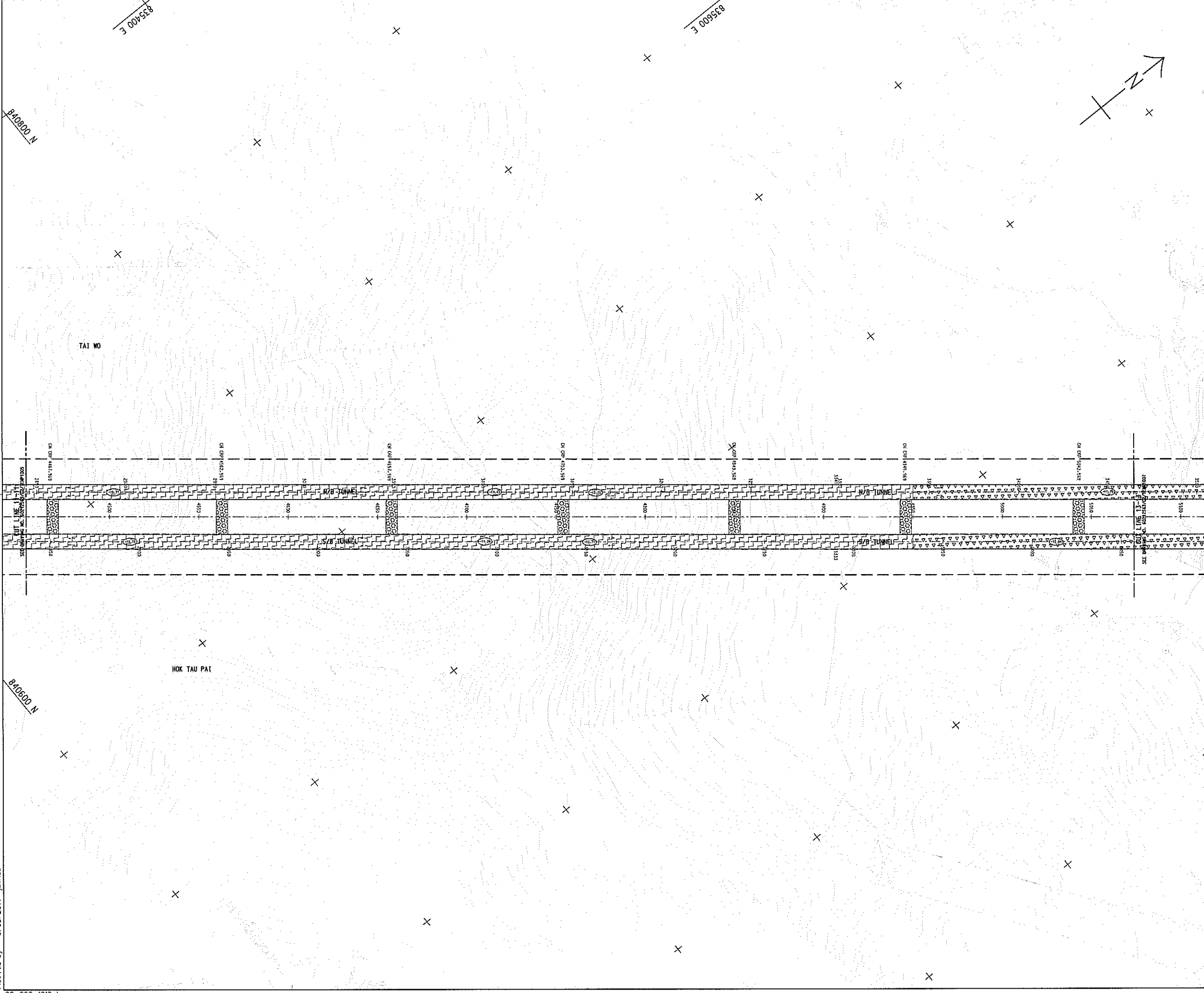
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土木工程拓展署
 Civil Engineering and Development Department

LIANTANG/HEUNG YUEN WAI BOUNDARY CONTROL POINT
 SITE FORMATION AND INFRASTRUCTURE WORKS -
 CONTRACT 2

GENERAL LAYOUT

SHEET 6 OF 10

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 Civil Engineering and
 Development Department

L'ANTANG/HEUNG YUEN WAI BOUNDARY CONTROL POINT
 SITE FORMATION AND INFRASTRUCTURE WORKS -
 CONTRACT 2

GENERAL LAYOUT
 SHEET 7 OF 10

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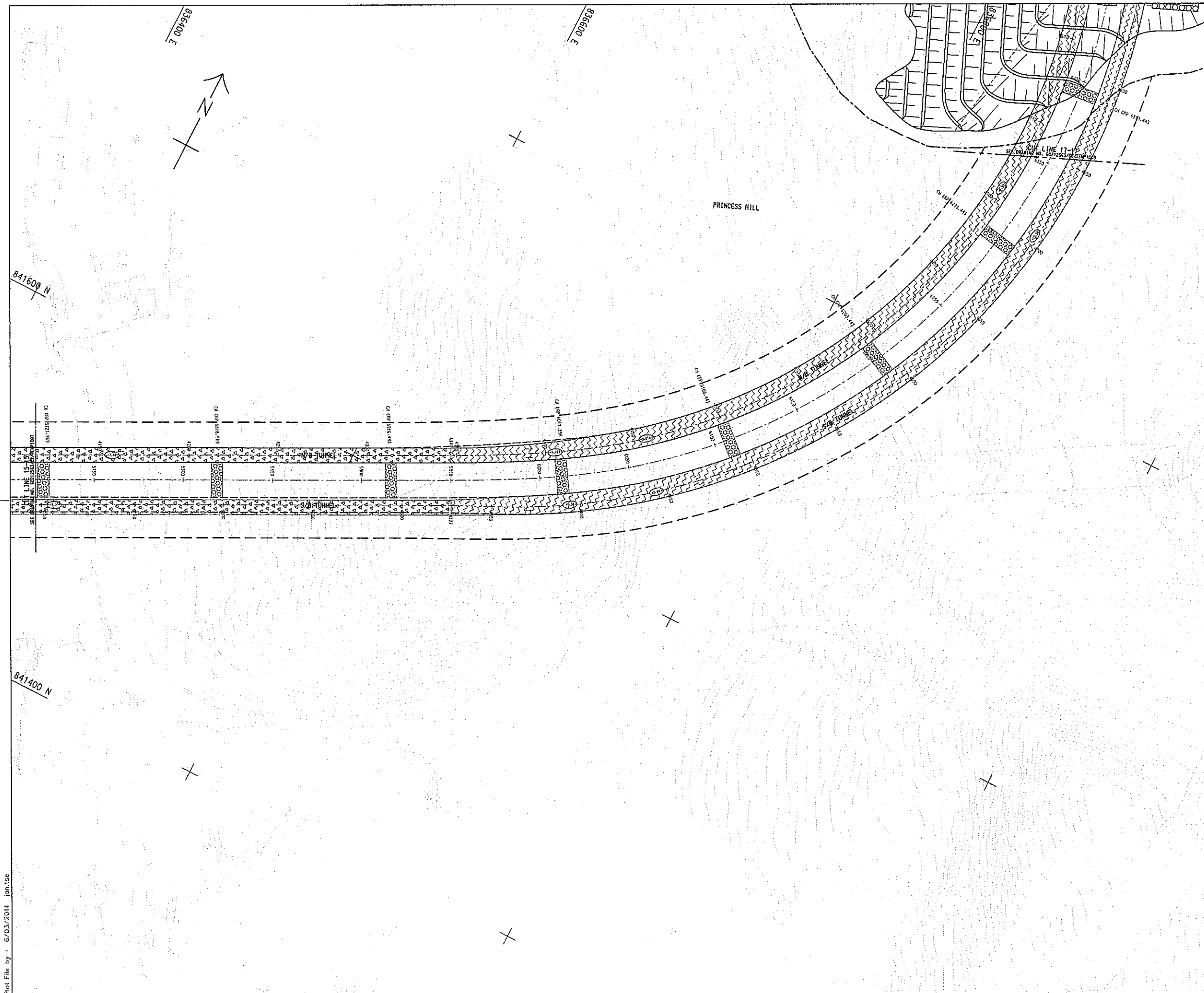
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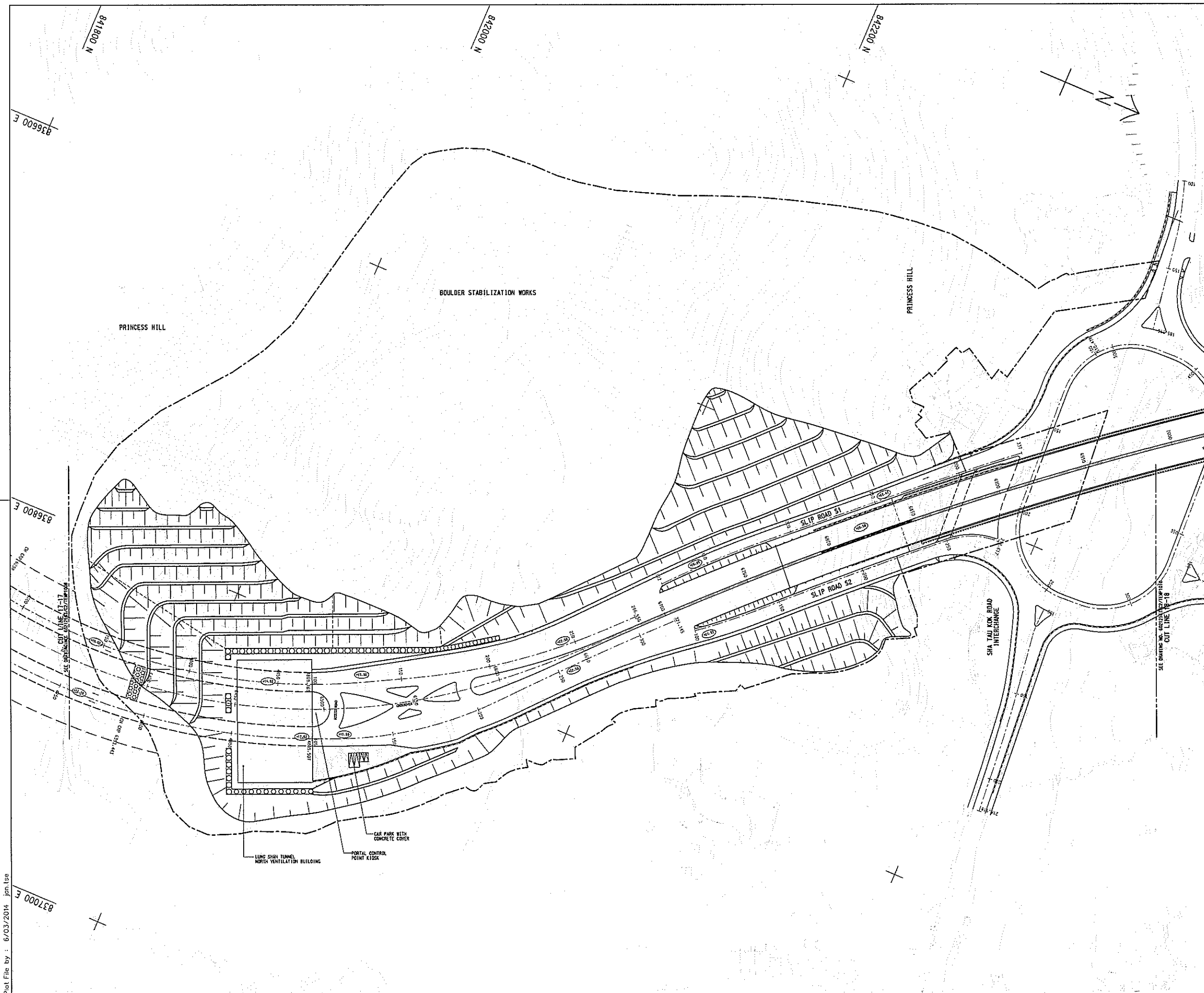


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 土木工程拓展署 Civil Engineering and Development Department				
LIANTANG/HEUNG YUEN WAI BOUNDARY CONTROL POINT SITE FORMATION AND INFRASTRUCTURE WORKS - CONTRACT 2				
GENERAL LAYOUT				
SHEET 8 OF 10				
				
DRG. NO. 圖紙編號		60212563/C2/TEMP1008		
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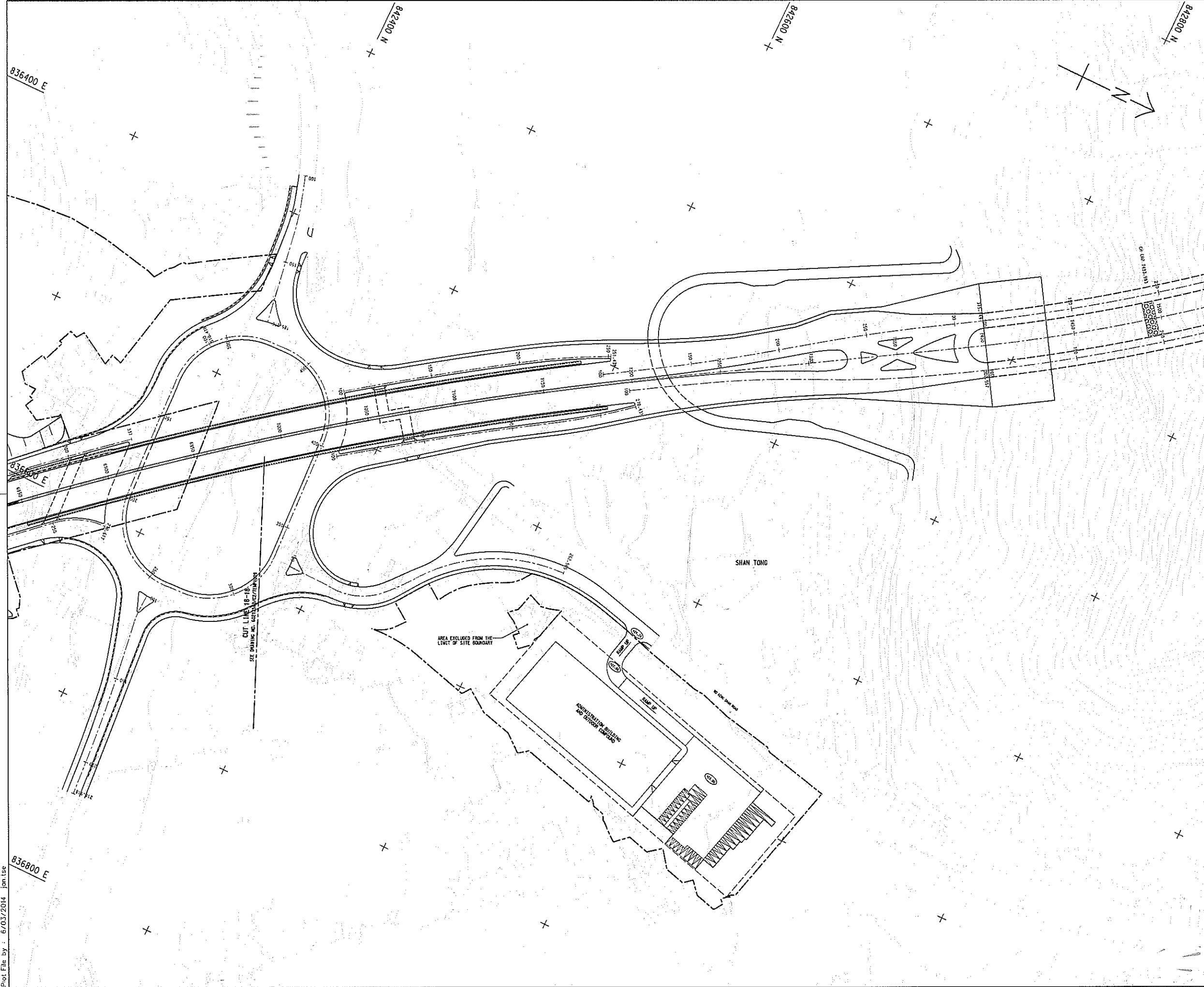
CEDD 土木工程拓展署
 Civil Engineering and Development Department
 LIANTANG/HEUNG YUEN WAI BOUNDARY CONTROL POINT
 SITE FORMATION AND INFRASTRUCTURE WORKS -
 CONTRACT 2

GENERAL LAYOUT
 SHEET 9 OF 10




DRG. NO. 60212563/C2/TEMP1009 圖紙編號		CONTRACT NO. CV/2012/08 合約編號		P. S.I. APPROVED 專業人士核實	
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NO.	DESCRIPTION	DATE


土木工程拓展署
 Civil Engineering and Development Department
 LIANTANG/HEUNG YUEN WAI BOUNDARY CONTROL POINT SITE FORMATION AND INFRASTRUCTURE WORKS - CONTRACT 2
GENERAL LAYOUT (ADMINISTRATION BUILDING)
 SHEET 10 OF 10

AECOM

DRG. NO. 60212563/C2/TEMP1010 圖紙編號	
DESIGNED BY 設計	CONTRACT NO. 合約編號 CV/2012/08
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