



中國港灣工程有限責任公司

香港代表： 振華工程有限公司

CHINA HARBOUR ENGINEERING COMPANY LIMITED
HONG KONG REPRESENTATIVE: ZHEN HUA ENGINEERING CO., LTD.

Date : 06 July 2017
Our Ref. : CHEC300/OUT/2017/07/03.04/027656

By Hand

AECOM Asia Company Limited
8/F Grand Central Plaza
Tower 2, 138 Shatin Rural Committee Road
Shatin, Hong Kong

Attn: Mr. Ng Wang Shek
The Engineer's Representative

Dear Sir,

Contract No. HY/2013/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities –
Vehicle Clearance Plazas and Ancillary Buildings and Facilities
EP Condition 5.4 – Quarterly EM&A Report (March 2017 – May 2017)

Pursuant to the Condition 5.4 of the EP-353/2009/K, we are pleased to submit one soft copy and three copies of the certified Quarterly EM&A Report (Rev.1) for March 2017 to May 2017 for your on-ward submission.

Thank you for your kind attention.

Yours faithfully,
For and on behalf of
China Harbour Engineering Co. Ltd.


Paul Pui
Site Agent

PP/FH/MC/ac


Encl.

5 July 2017

By Fax (3468 2076) and By Post

AECOM Asia Co. Ltd.
The PRE's Office
5 Ying Hei Road, Tung Chung, Lantau
Hong Kong

Attention: Mr. W.S. Ng

Dear Sir,

**Re: Agreement No. CE 48/2011 (EP)
Environmental Project Office for the
HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities,
and Tuen Mun-Chek Lap Kok Link – Investigation**

**Contract No. HY/2013/03 – HZMB HKBCF – Vehicle Clearance Plazas and
Ancillary Buildings and Facilities
Quarterly EM&A Report No.7 for March 2017 to May 2017**

Reference is made to the Environmental Team's submission of Quarterly Environmental Monitoring & Audit Report No.7 for March 2017 to May 2017 certified by the ET Leader (ET's ref.: "MCL/ED/0374/2017/C" dated 4 July 2017) and provided to us via e-mail on 4 July 2017.

We are pleased to inform you that we have no adverse comment on the captioned report. We write to verify the captioned submission in accordance with Section 16.4.1 of the Updated EM&A Manual (2011).

Thank you very much for your attention and please feel free to contact the undersigned should you require further information.

Yours faithfully,
For and on behalf of
Ramboll Environ Hong Kong Limited



Raymond Dai
Independent Environmental Checker

c.c.	HyD	Mr. Vico Cheung	(By Fax: 3188 6614)
	HyD	Mr. Ken Woo	(By Fax: 3188 6614)
	MCL	Mr. Arthur Cheng	(By Fax: 2450 8032)
	CHEC	Mr. Johnason Ko	(By Fax: 2887 3014)

Internal: DY, YH, ENPO Site

MATERIALAB CONSULTANTS LIMITED

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Website : www.materialab-consultant.com

Date 04 July 2017
Our Ref. MCL/ED/0374/2017/C

Ramboll Environ Hong Kong Limited
(formerly ENVIRON Hong Kong Limited)
21/F, BEA Harbour View Centre
56 Gloucester Road, Wan Chai
Hong Kong

BY HAND

Attn.: Mr. Raymond Dai, IEC

Dear Sir,

**Quarterly EM&A Report for March 2017 to May 2017
Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities –
Vehicle Clearance Plazas and Ancillary Buildings and Facilities (Contract No. HY/2013/03)**

Pursuant to Section 16.4 of the updated EM&A Manual for Hong Kong Boundary Crossing Facilities (Version 1.0) covering the captioned contract, we are pleased to submit the certified Quarterly EM&A Report for March 2017 to May 2017 for your verification.

Should you require further information, please do not hesitate to contact our Miss Jamie Tam at 3565 4157 or the undersigned at 3565 4115.

Yours faithfully,
for and on behalf of
MATERIALAB CONSULTANTS LIMITED



Arthur Cheng
Environmental Team Leader

AC/jt

Encl.

c.c. AECOM – Mr. P.K. Lee, Mr. W.S. Ng, Mr. Dominic Mow
RAMBOLL ENVIRON – Mr. Ray Yan, Mr. Andy Wong
CHEC – Mr. Marko Chan

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Report No.: 0165/15/ED/0820

**QUARTERLY ENVIRONMENTAL MONITORING & AUDIT
REPORT**

March 2017 to May 2017

Client: China Harbour Engineering Co., Ltd.
Project: Contract No. HY/2013/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities -
Vehicle Clearance Plazas and
Ancillary Buildings and Facilities

Report No.: 0165/15/ED/0820

Prepared by: Jamie Tam

Reviewed by: Bong Yu

Certified by:


Arthur Cheng
Environmental Team Leader

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Report No.: 0165/15/ED/0820

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Report No.: 0165/15/ED/0820

EXECUTIVE SUMMARY

This Quarterly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2013/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities" (includes the construction works of Contract No. HY/2013/06 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System" within Contract No. HY/2013/03 works area) (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR). The Contract was awarded to China Harbour Engineering Co. Limited (construction works of Contract No. HY/2013/06 was awarded to ATAL Technologies Limited within Contract No. HY/2013/03 works area) (hereafter referred to as "the Contractor") and MaterialLab Consultants Limited (MCL) was appointed as the Environmental Team (ET) by the Contractor.

Contract No. HY/2013/03 (includes the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) is part of the "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities" (HZMB HKBCF) Project which is a "Designated Project" under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499) and for which an EIA Report (Register No. AEIAR-145/2009) was prepared and approved. The current Environmental Permit (EP) for HKBCF, namely No. EP-353/2009/K, was issued on 11 April 2016. These documents are available through the EIA Ordinance Register. Commencement of Contract No. HY/2013/03 took place on 10 April 2015 while the construction works and the EM&A programme of Contract No. HY/2013/03 commenced on 29 August 2015 (commencement of Contract No. HY/2013/06 took place on 14 August 2015 while the construction works and the EM&A programme of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area commenced on 13 September 2016).

MaterialLab Consultants Limited (MCL) has been appointed by the Contractor to implement the Environmental Monitoring & Audit (EM&A) programme for the Contract in accordance with the Updated EM&A Manual for HKBCF (Version 1.0) and will be providing environmental team services for the Contract. This is the 7th Quarterly EM&A Report for the Contract which summaries findings of the EM&A works during the reporting period from 01 March 2017 to 31 May 2017 (includes the findings of the EM&A programme of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area during the reporting period from 01 March 2017 to 31 May 2017) (the "reporting period").

Environmental Monitoring and Audit Progress

The EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKBCF (Version 1.0). It should be noted that the air quality and noise monitoring works for the Contract are covered by Contract No. HY/2010/02 "Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works" and Contract No. HY/2011/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF". The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7, noise monitoring at NMS2 and NMS3B, water quality monitoring at the locations shown in **Figure 3** and ecological monitoring as shown in **Figure 4** and **Figure 5** as part of EM&A programme if these monitoring stations are no longer covered under Contract Nos. HY/2010/02 and HY/2011/03. However, this is subject to ENPO's final decision on which ET should carry out the monitoring work at these stations.

The dates of site inspection for Contract No. HY/2013/03 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) during the reporting period are listed below:

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Environmental Site Inspection:

- 02, 09, 16, 24 and 30 March 2017
- 05, 12, 20 and 28 April 2017
- 05, 11, 18 and 26 May 2017

Breaches of Action and Limit Levels

Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 is reported in the monthly EM&A report prepared by Contract No. HY/2011/03.

There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

There was no Action and Limit Level exceedance for noise recorded at station NMS2 and station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

As silt curtain was installed on 11 May 2017 and therefore, water monitoring result is reported from May. There was no Action and Limit Level exceedance for water quality recorded at the monitoring stations shown at **Table 2.2** by the Environmental Team of Contract No. HY/2010/02 during May.

Ecological monitoring results at all transects are reported in the EM&A report prepared by Contract No. HY/2010/02.

Complaint Log

There were three complaints received in relation to the environmental impact during the reporting period.

Log No.	Environmental Complaint Ref. No.	Date of Complaint Receipt	Description
006	ENPO-C0110	21 March 2017	Water pollution
007	ENPO-C0113	28 March 2017	Noise and water pollution
008	ENPO-C0119	31 May 2017	Air pollution

After investigation, complaint no. 006 cannot be concluded that the captioned complaint was related to Contract No. HY/2013/03 due to lack of information. Complaint No. 007 and 008 were not related to Contract No. HY/2013/03.

Notifications of Summons and Successful Prosecutions

There were no notifications of summons or prosecutions received during this reporting period.

Reporting Changes

Changes on the EM&A programme were justified and verified by the ET Leader for Contract No. HY/2010/02 and the IEC respectively on 24 March 2017, and it was approved by EPD on 12 May 2017. The changes to the EM&A programme for the HKBCF project effective from 15 May 2017 are shown in the following:

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1. Water Quality Monitoring

Current and Alternative WQM Stations

WQM Station	Description	East	North
CS(Mf)3	Control Station	809989	821117
CS(Mf)3(N)	Control Station	808814	822355
SR5	Sensitive receiver (Artificial Reef in NE Airport)	811489	820455
SR5(N)	Sensitive receiver (Artificial Reef in NE Airport)	812569	821475
IS10	Impact Station (Close to HKBCF construction site)	812577	820670
IS10(N)	Impact Station (Close to HKBCF construction site)	812942	820881

Remarks: CS(Mf)3(N), SR5(N) and IS10(N) are alternative WQM Stations.

The locations of current and alternative WQM stations are shown in **Figure 3**.

2. Dolphin Monitoring

Co-ordinates of Vessel-based Transect Lines (changes are marked in red):

Line No.	Easting	Northing	
2	Start Point	805476	820800
2	End Point	805476	826654
3	Start Point	806464	821150
3	End Point	806464	822911
4	Start Point	807518	821500
4	End Point	807518	829230
5	Start Point	808504	821850
5	End Point	808504	828602
6	Start Point	809490	822150
6	End Point	809490	825352
7	Start Point	810499	822000
7	End Point	810499	824613
24	Start Point	805476	815900
24	End Point	805476	819100

Remarks: Line No. 24 is a new vessel-based transect line for dolphin monitoring.

The original co-ordinates for the transect lines and layout map before the changes of the EM&A programme are shown in **Figure 4** and the new co-ordinates for the transect lines and layout map after the changes of the EM&A programme with effect from 15 May 2017 are shown in **Figure 5**.

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1. INTRODUCTION

1.1 Basic Project Information

1.1.1 This Quarterly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2013/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities" (includes the construction works of Contract No. HY/2013/06 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System" within Contract No. HY/2013/03 works area) (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR). The Contract was awarded to China Harbour Engineering Co. Limited (construction works of Contract No. HY/2013/06 was awarded to ATAL Technologies Limited within Contract No. HY/2013/03 works area) (hereafter referred to as "the Contractor") and MaterialLab Consultants Limited (MCL) was appointed as the Environmental Team (ET) by the Contractor.

1.1.2 Contract No. HY/2013/03 (includes the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) is part of the "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities" (HZMB HKBCF) Project which is a "Designated Project" under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499) and for which an EIA Report (Register No. AEIAR-145/2009) was prepared and approved. The current Environmental Permit (EP) for HKBCF, namely No. EP-353/2009/K, was issued on 11 April 2016. These documents are available through the EIA Ordinance Register. Commencement of Contract No. HY/2013/03 took place on 10 April 2015 while the construction works and the EM&A programme of Contract No. HY/2013/03 commenced on 29 August 2015 (commencement of Contract No. HY/2013/06 took place on 14 August 2015 while the construction works and the EM&A programme of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area commenced on 13 September 2016). The works areas of the contract are shown in **Appendix A**.

1.1.3 This is the 7th Quarterly EM&A Report summarising the findings of EM&A activities conducted under Contract No. HY/2013/03 from 01 March 2017 to 31 May 2017 (from 01 March 2017 to 31 May 2017 for the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) (the "reporting period") and is submitted to fulfil Condition 16.4 of the Updated EM&A Manual for HKBCF.

1.2 Project Organisation

1.2.1 The organisation chart and lines of communication with respect to the on-site environmental management structure together with the contact information of the key personnel are shown in **Appendix B**. The key personnel contact names and numbers are summarized in **Table 1.1** and **Table 1.2**.

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Table 1.1 Contact Information of Key Personnel (for Contract No. HY/2013/03)

Party	Position	Contact Person	Telephone No.	Fax No.
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Mr. W. S. Ng	3958 7400	3902 8800
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Mr. Y. H. Hui	3547 2133	3465 2899
	Independent Environmental Checker (IEC)	Mr. Raymond Dai	3465 2888	3465 2899
	Environmental Site Supervisor	Mr. Ray Yan	5181 8165	3465 2899
Contractor (China Harbour Engineering Co. Ltd)	Site Agent	Mr. Paul Pui	9125 0700	2512 0427
	Environmental Officer	Mr. Marko Chan	9427 2879	2512 0427
Environmental Team (MaterialLab Consultants Limited)	Environmental Team Leader (ETL)	Mr. Arthur Cheng	3565 4115	2450 8032
24-hr Complaint Hotline	--	--	5236 7111	--

Table 1.2 Contact Information of Key Personnel (for Contract No. HY/2013/06 within Contract No. HY/2013/03 works area)

Party	Position	Contact Person	Telephone No.	Fax No.
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Mr. W. S. Ng	3958 7400	3902 8800
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Mr. Y. H. Hui	3547 2133	3465 2899
	Independent Environmental Checker (IEC)	Mr. Raymond Dai	3465 2888	3465 2899
	Environmental Site Supervisor	Mr. Ray Yan	5181 8165	3465 2899
Contractor (ATAL Technologies Limited)	Site Agent	Mr. Eric Yim	2565 3355	3162 5217
	Environmental Officer	Mr. W. Li	2565 3137	3162 5217
Environmental Team (MaterialLab Consultants Limited)	Environmental Team Leader (ETL)	Mr. Arthur Cheng	3565 4115	2450 8032
24-hr Complaint Hotline	--	--	6509 0375	--

1.3 Construction Programme

1.3.1 The construction programme for Contract No. HY/2013/03 (includes the construction works of HY/2013/06 within Contract No. HY/2013/03 works area) are provided in **Appendix C**.

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1.4 Construction Works undertaken during the Reporting Period

1.4.1 A summary of the construction activities undertaken during this reporting period is shown below:

For Contract No. HY/2013/03

March 2017

1. Building at Portion A1, B, G, N, J, STP & Pumping Stations;
2. Piling at Box Culvert B & Sign Gantry;
3. CUE Construction at Portion B, C & J;
4. Drainage & Sewerage Work, Water Main & Cable Duct at Portion B, H1, H2, J, P, G & A1;
5. Radiation Screen Wall at Portion B, E P, N,M,C;
6. Sign Gantry Footing at Portion B;
7. Sewerage Pumping Station, High Mast Lighting Foundation & Box Culvert C at Portion G;
8. Bridge Works at A1 to A9;
9. Site Foundation Works at Portion K;
10. Cover Walkway at Portion H1 & H2;
11. Box Culvert B at Portion N; Shuttle kiosk & Subway at Portion E; and
12. Marine sediment excavation activities from the land-based works and corresponding disposal at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee.

April 2017

1. Building at Portion A1, B, G, N, J, STP & Pumping Stations;
2. Piling at Box Culvert B & Sign Gantry;
3. CUE Construction at Portion B, C & J;
4. Drainage & Sewerage Work, Water Main & Cable Duct at Portion B, H1, H2, J, P, G & A1;
5. Radiation Screen Wall at Portion B, E P, N,M,C;
6. Sign Gantry Footing at Portion B;
7. Sewerage Pumping Station, High Mast Lighting Foundation & Box Culvert C at Portion G;
8. Bridge Works at A1 to A9;
9. Site Foundation Works at Portion K;
10. Cover Walkway at Portion H1 & H2;
11. Box Culvert B at Portion N; Shuttle kiosk & Subway at Portion E); and
12. Marine sediment excavation activities from the land-based works and corresponding disposal at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee.

May 2017

1. Building at Portion A1, B, G, N, J, STP & Pumping Stations;
2. Piling at Box Culvert B & Sign Gantry;
3. CUE Construction at Portion B, C & J;
4. Drainage & Sewerage Work, Water Main & Cable Duct at Portion B, H1, H2, J, P, G & A1;
5. Radiation Screen Wall at Portion B, E P, N,M,C;
6. Sign Gantry Footing at Portion B;

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7. Sewerage Pumping Station, High Mast Lighting Foundation & Box Culvert C at Portion G;
8. Bridge Works at A1 to A9;
9. Site Foundation Works at Portion K;
10. Cover Walkway at Portion H1 & H2;
11. Box Culvert B at Portion N; Shuttle kiosk & Subway at Portion E;
12. Marine sediment excavation activities from the land-based works and corresponding disposal at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee; and
13. Deployment, maintenance and inspection of silt curtain.

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

March 2017

1. Wiring and installation of services conduit at Building 037 and CUE works area.

April 2017

1. Conceal conduit & services conduit installation at Building 037 and CUE works area.

May 2017

1. Conduit & display panel installation at Building 037 and CUE works area.

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2. EM&A REQUIREMENTS

2.1 Summary of EM&A Requirements

2.1.1 The EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKBCF (Version 1.0). It should be noted that the air quality and noise monitoring works for the Contract are covered by Contract No. HY/2010/02 "Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works" and Contract No. HY/2011/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF". The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7 and noise monitoring at NMS2 and NMS3B, water quality monitoring at the locations shown in **Figure 3** and ecological monitoring as shown in **Figure 4** and **Figure 5** as part of EM&A programme if these monitoring stations are no longer covered under Contract Nos. HY/2010/02 and HY/2011/03. However, this is subject to ENPO's final decision on which ET should carry out the monitoring work at these stations.

The ET of the Contract or another ET of the HZMB project is required to conduct impact ecological monitoring at 24 transects as part of EM&A programme if these transects are no longer covered under Contract No. HY/2010/02. The impact ecological monitoring should adopt line-transect vessel survey method. The survey follows pre-set and fixed transect lines in the two areas defined by AFCD as: Northeast Lantau survey area and Northwest Lantau survey area. Changes of the EM&A programme were effective from 15 May 2017. **Figure 4** shows the original co-ordinates for the transect lines and layout map before the changes of the EM&A programme and **Figure 5** shows the new co-ordinates for the transect lines and layout map after the changes of the EM&A programme with effect from 15 May 2017.

2.1.2 A summary of air and noise monitoring locations are presented in **Table 2.1**. The location of air quality and noise monitoring stations are shown as in **Figure 1** and **Figure 2**, respectively.

Table 2.1 Air Quality and Noise Monitoring Locations

Environmental Monitoring	Identification No.	Location Description
Air Quality	AMS6(1)	Dragonair/CNAC (Group) Building (A80)
	AMS7(1)	Hong Kong SkyCity Marriott Hotel
Noise	NMS2(2)	Seaview Crescent
	NMS3B(2) (3)	Site Boundary of Site Office Area at WA2

Remarks:

- (1) The ET of this Contract should conduct impact air quality monitoring at the AMS listed in the table as part of EM&A programme according to latest notification from ENPO when the monitoring station(s) is/are no longer covered by another ET of the HZMB project.
- (2) The ET of this Contract should conduct impact noise monitoring at the NMS listed in the table as part of EM&A programme according to the latest notification from ENPO when the monitoring station(s) is/are no longer covered by another ET of the HZMB project.
- (3) The Action and Limit Levels for schools will be applied for this alternative monitoring location.

2.1.3 Changes on the EM&A programme were effective from 15 May 2017. A summary of the original and updated water quality monitoring stations are presented in **Table 2.2**. The location of water quality monitoring stations are shown as in **Figure 3**.

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Table 2.2 Water Quality Monitoring Stations

Station	Description	East	North
IS5	Impact Station (Close to HKBCF construction site)	811579	817106
IS(Mf)6	Impact Station (Close to HKBCF construction site)	812101	817873
IS7	Impact Station (Close to HKBCF construction site)	812244	818777
IS8	Impact Station (Close to HKBCF construction site)	814251	818412
IS(Mf)9	Impact Station (Close to HKBCF construction site)	813273	818850
IS10	Impact Station (Close to HKBCF construction site)	811489	820455
IS10(N) ⁽³⁾	Impact Station (Close to HKBCF construction site)	812569	821475
IS(Mf)11	Impact Station (Close to HKBCF construction site)	813562	820716
IS(Mf)16	Impact Station (Close to HKBCF construction site)	814328	819497
IS17	Impact Station (Close to HKBCF construction site)	814539	820391
SR3	Sensitive receivers (San Tau SSSI)	810525	816456
SR4(N)	Sensitive receivers (Tai Ho)	814705	817859
IS(Mf)11	Impact Station (Close to HKBCF construction site)	813562	820716
SR5(N) ⁽³⁾	Control Station	812569	821475
SR6	Sensitive receivers (Sha Chau and Lung Kwu Chau Marine Park)	805837	821818
SR7	Sensitive receivers (Tai Mo Do)	814293	821431
SR10A ⁽¹⁾	Sensitive receivers(Ma Wan FCZ) 1	823741	823495
SR10B(N) ⁽¹⁾	Sensitive receivers(Ma Wan FCZ) 2	823683	823187
CS(Mf)3	Control Station	809989	821117
CS(Mf)3(N) ⁽³⁾	Control Station	808814	822355
CS(Mf)5	Control Station	817990	821129
CS4	Control Station	810025	824004
CS6	Control Station	817028	823992
CSA ⁽²⁾	Control Station	818103	823064

Note:

(1) Additional monitoring station for Ma Wan FCZ

(2) Additional control monitoring station for Ma Wan FCZ

(3) CS(Mf)3(N), SR5(N) and IS10(N) are alternative WQM Stations which replaced current WQM Stations CS(Mf)3, SR5 and IS10 respectively from 15 May 2017

Remarks:

The ET of the Contract should conduct impact water quality monitoring at the WQMs listed in the table as part of EM&A programme according to latest notification from ENPO if water quality monitoring is no longer covered by another ET of the HZMB project. The ET of the Contract shall communicate and share the monitoring data to the ET(s) of the other contracts if the water quality monitoring station(s) is/are as part of EM&A programme.

2.2 Monitoring Requirements

2.2.1 The monitoring requirements, monitoring equipment, monitoring parameters, frequency and duration, monitoring methodology, monitoring schedule, meteorological information are detailed in the monthly EM&A Reports prepared for Contract Nos. HY/2010/02 and HY/2011/03.

2.3 Action and Limit Levels

2.3.1 The Action and Limit Levels for 1-hr TSP and 24-hr TSP are provided in Table 2.3 and Table 2.4 respectively.

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Table 2.3 Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AMS6	360	500
AMS7	370	

Table 2.4 Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AMS6	173	260
AMS7	183	

2.3.2 The Action and Limit Levels for construction noise are defined in **Table 2.5**.

Table 2.5 Action and Limit Level for Construction Noise

Monitoring Station	Action Level	Limit Level
For the Time Period 0700-1900 hrs. on Normal Weekdays		
NMS2	When one documented complaint is received	75.0 dB (A) Leq (30 min.)
NMS3B		70.0 dB (A) Leq (30 min.)*

Notes:

If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

* Reduce to 70 dB(A) for schools and 65 dB(A) during school examination period.

2.3.3 The Action and Limit Levels for Water Quality are provided in **Table 2.6**.

Table 2.6 Action and Limit Levels for Water Quality

Parameters	Action	Limit
DO in mg/L (Surface, Middle & Bottom)	Surface and Middle 5.0 Bottom 4.7	Surface and Middle = 4.2 (except 5 mg/L for FCZ) Bottom = 3.6
SS in mg/L (depth-averaged) at all monitoring stations and control stations	23.5 and 120% of upstream control station's SS at the same tide of the same day*	34.4 and 130% of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes*
Turbidity in NTU (depth-averaged)	27.5 and 120% of upstream control station's turbidity at the same tide of the same day*	47.0 and 130% of upstream control station's turbidity at the same tide of the same day*

* Remarks: Reference is made to EPD approval of adjustment of water quality assessment criteria issued and became effective on 18 February 2013.

- Notes:
- "depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
 - For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
 - For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
 - All the figures given in the table are used for reference only and the EPD may amend the figures whenever it is considered as necessary.
 - The 1%-ile of baseline data for dissolved oxygen (surface and middle) and dissolved oxygen (bottom) are 4.2mg/L and 3.6mg/L respectively.

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2.3.4 The Action and Limit Levels for Ecological Monitoring are provided in **Table 2.7** and **Table 2.8**.

Table 2.7 Action and Limit Levels for Ecological Monitoring - Approach to Define Action Level (AL) and Limit Level (LL)

	North Lantau Social Cluster	
	NEL	NWL
Action Level	(STG < 70% of baseline) & (ANI < 70% of baseline)	(STG < 70% of baseline) & (ANI < 70% of baseline)
Limit Level	[(STG < 40% of baseline) & (ANI < 40% of baseline)] AND [(STG < 40% of baseline) & (ANI < 40% of baseline)]	

For North Lantau Social Cluster, action level will be trigger if either NEL or NWL fall below the criteria; limit level will be triggered if both NEL and NWL fall below the criteria.

Table 2.8 Derived Value of Action Level (AL) and Limit Level (LL) for Ecological Monitoring

	North Lantau Social Cluster	
	NEL	NWL
Action Level	(STG < 4.2) & (ANI < 15.5)	(STG < 6.9) & (ANI < 31.3)
Limit Level	[(STG < 2.4) & (ANI < 8.9)] AND [(STG < 3.9) & (ANI < 17.9)]	

The ET of this Contract should conduct impact ecological monitoring as part of EM&A programme according to latest notification from ENPO when the monitoring transect(s) is/are no longer covered by another ET of the HZMB project.

2.3.5 If exceedance(s) at these transect(s) is/are recorded by the ET of the Contract or referred by the other ET under the HZMB project to the Contract, the ET of the Contract will carry out an investigation and findings will be reported in the quarterly EM&A Report.

2.4 Event and Action Plans

2.4.1 The event and action plans are provided in **Appendix D**.

2.5 Mitigation Measures

2.5.1 Environmental mitigation measures for the contract were recommended in the approved EIA Report. **Appendix E** lists the recommended mitigation measures and the implementation status.

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3. ENVIRONMENTAL MONITORING AND AUDIT

3.1 Air Quality Monitoring Results

- 3.1.1 The monitoring results for AMS6 and AMS7 are reported in the monthly EM&A Reports (for March 2017, April 2017 and May 2017) prepared for Contract Nos. HY/2011/03 and HY/2010/02 respectively.
- 3.1.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 is reported in the monthly EM&A Reports (for March 2017, April 2017 and May 2017) prepared by Contract No. HY/2011/03.
- 3.1.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

3.2 Noise Monitoring Results

- 3.2.1 The monitoring results for NMS2 and NMS3B are reported in the monthly EM&A Reports (for March 2017, April 2017 and May 2017) prepared for Contract No. HY/2010/02.
- 3.2.2 No noise exceedances were recorded at stations NMS2 and NMS3B by the ET of Contract No. HY/2010/02 during the reporting period.

3.3 Water Quality Monitoring Results

- 3.3.3 As silt curtain was installed on 11 May 2017 and therefore, monitoring result is reported from May 2017. The monitoring results for the monitoring stations shown in **Table 2.2** were reported in the monthly EM&A Report (for May 2017) prepared for Contract No. HY/2010/02. There was no Action and Limit Level exceedance recorded by the Environmental Team of Contract No. HY/2010/02 during May.

3.4 Ecology Monitoring Results

- 3.4.1 As silt curtain was installed on 11 May 2017 and therefore, monitoring result is reported from May 2017. The dolphin survey results for all transects were reported in the monthly EM&A Reports (for May 2017) prepared by Contract No. HY/2010/02. One limit level exceedance was recorded in the monitoring period (March 2017 to May 2017).
- 3.4.2 During this reporting period, silt curtain was installed by Contract No. HY/2013/03. After checking the Marine Travel Routes record provided by the Contractor, there were twenty-two and forty-four trips of barges recorded on April and May 2017 in the reporting period. All marine transportation recorded were restricted and followed the Regular Marine travel Route Plan. Training of marine travel route for marine vessels operator was given to relevant staff and all barges recorded during the reporting period were travelled in regular travel routes.
- 3.4.3 The exceedance is still under investigation by Contract No. HY/2010/02. The investigation report (including the causes of exceedance, action taken and recommendation for mitigation) for Action or Limit Level Non-compliance will be prepared by the ET of Contract No. HY/2010/02 and detailed in the quarterly EM&A Report prepared for Contract No. HY/2010/02. The implementation of Regular Marine Travel Route Plan for the above

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mentioned barges of marine transportation undertaken by Contract No. HY/2013/03 during the reporting period were checked by the ET. The Regular Marine Travel Route Plan were prepared and given to marine vessels operators to use in order to minimize the chance of vessel collision and the routes would not go through the dolphin hotspot in Brothers Islands.

3.5 Implementation of Environmental Measures

- 3.5.1 In response to the site audit findings, the Contractor carried out corrective actions. Details of site audit findings and the corrective actions during the reporting period are presented in **Appendix F**.
- 3.5.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix E**. All necessary mitigation measures at this stage of works were implemented properly.
- 3.5.3 Implementation status of Regular Marine Travel Route Plan (RMTRP) was checked by ET. Training of marine travel route for marine vessels operator was given to relevant staff and relevant records were kept properly. Marine traffic records which indicated the number of trips data for pelican barge, hopper barge, tug boat, floating concrete batching plant and derrick lighter on the implementation of RMTRP from March 2017 to May 2017 were checked by ET. Marine traffic records of March 2017, April 2017 and May 2017 were provided by Contractor to ER, IEC/ENPO for checking within the month of April 2017, May 2017 and June 2017 respectively. The implementation of marine traffic follows the Regular Marine Travel Route Plan with respect to ET's checking on the marine traffic records for the reporting period.
- 3.5.4 With respect to condition 3.26A of EP-353/2009/K approved by EPD on 11 April 2016, the numbers and operating periods of floating grout production facilities and floating concrete batching plants on-site to review on the compliance to this EP condition were checked. Under Contract No. HY/2013/03, one floating concrete batching plant was operated on-site during March 2017 and no floating concrete batching plant was operated on-site during April and May 2017.
- 3.5.5 As silt curtain was installed on 11 May 2017, Dolphin Watching Plan (DWP) should be implemented. Implementation status of DWP was checked by ET. Before the installation of silt curtain, ET conducted visual inspection of the presence of dolphins in the surrounding water. Besides, dolphin watching training was provided to the representatives of the Contractor during April 2017. The records of dolphin watching training, regular inspection of the silt curtains and visual inspection of waters surrounded by the silt curtain in May 2017 would be provided to ER, ETL, IEC/ENPO for checking within the month of June 2017.

3.6 Advice on the Solid and Liquid Waste Management Status

- 3.6.1 The Contractor of Contract No. HY/2013/03 registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 3.6.2 No extracted marine sediment was treated using cement solidification/stabilisation (Cement S/S) techniques under Contract No. HY/2013/03 during this reporting period. The marine sediment extracted from this Contract was disposed to the Marine Fill Committee (MFC) allocated disposal sites directly without treatment during this reporting period. As a practical mean, the disposal operation is managed by one contractor who is also responsible for

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applying dumping permit and its subsequent extension applications from EPD. Contract No. HY/2013/03 has been assigned to coordinate and arrange for disposal of extracted marine sediment from all three Contracts (Contract Nos. HY/2013/02, HY/2013/03 and HY/2013/04).

- 3.6.3 The barge for disposal of marine sediment was morn at the temporary loading and unloading at the east shore of the HKBCF Island, which has been being used by reclamation contractor (Contract No. HY/2010/02) for reclamation activities. In terms of safety consideration and to avoid mixing of sediment between contracts, each dumping date was allocated to one Contract. The quantity of marine sediment disposed on each date was from one Contract.
- 3.6.4 During dumping, Contractor of Contract No. HY/2013/03 is responsible for transporting the marine sediment from the site area of Contract No. HY/2013/03 to the barge. The estimated quantity of marine sediment in each truck is confirmed by Resident Site Staff of Contract Nos. HY/2013/02, HY/2013/03 and HY/2013/04. The trip tickets for transportation and disposal of marine sediment are collected and checked. Contract No. HY/2013/03 as the dumping permit holder is responsible for reporting to EPD the quantity disposed of as the condition stipulated in the dumping permit. The disposal site allocated to this Project are the Mud Pit CMP Vd of the Confined Marine Sediment Disposal Facility to the East of Sha Chau (ESC) during this reporting period.
- 3.6.5 Marine sediment extracted from bored piling from this Contract was disposed to allocated dumping site during this reporting period. The summary of marine sediment disposed during this reporting period is shown in the following table:

Table 3.1 Summary of Marine Sediment Disposed to Dumping Site

Month/Year	Quantity disposed (in'000m ³)			Total
	HY/2013/02	HY/2013/03	HY/2013/04	
March 2017	0	0	0	0
April 2017	0.624	1.288	0	1.912
May 2017	0	1.440	0	1.440
Total	0.624	2.728	0	3.352

- 3.6.6 The summary of waste flow table for Contract No. HY/2013/03 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) is detailed in **Appendix G**.
- 3.6.7 Contract No. HY/2013/03 has been assigned to arrange for delivery of surplus filling materials from Contract No. HY/2013/03 to Tuen Mun - Chek Lap Kok Link (TM-CLKL) project of HZMB by marine access from May 2017. The estimated quantity of surplus filling materials is confirmed by Resident Site Staff of Contract No. HY/2013/03. The summary of surplus filling materials delivered to TM-CLKL project up to the end of May 2017 is shown in **Table 3.2**.

Table 3.2 Summary of Surplus Filling Materials Delivered to TM-CLKL Project

Month/Year	Quantity disposed (in '000m ³)
	HY/2013/03
May 2017	12.637
Total	12.637

Note:

The disposal quantity of surplus filling materials provided by Resident Site Staff is in tonnes (for Contract No. HY/2013/03: 29,065 tonnes). In order to convert the disposal quantity from tonnes to m³, a conversion factor is used and shown as follows:

Volume (in m³) = Mass (in tonnes) / 2.3 (in tonnes/ m³)

Where 2.3 (in tonnes/ m³) is the density of surplus filling materials provided by the Contractor

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3.6.8 Contractor of Contract No. HY/2013/03's site arrangement for disposal of bentonite slurry to Tseung Kwan O Area 137 Fill Bank was checked by ET and formal consent has been obtained from Tseung Kwan O Area 137 Fill Bank for receiving used bentonite slurry generated from Contract No. HY/2013/03.

3.7 Environmental Licences and Permits

3.7.1 The valid environmental licences and permits for Contract No. HY/2013/03 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) during the reporting period are summarized in **Appendix H**. The Contractor of Contract No. HY/2013/06 was advised to register as a chemical waste producer when chemical waste is expected to generate for the foreseeable future from the operations (For Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation).

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4. SUMMARY OF EXCEEDANCES, COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTION

4.1 Summary of Exceedance of the Environmental Quality Performance Limit

- 4.1.1 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 is reported in the monthly EM&A Reports (for March, April and May 2017) prepared by Contract No. HY/2011/03.
- 4.1.2 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 4.1.3 There was no Action and Limit Level exceedance for noise recorded at station NMS2 and station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 4.1.4 As silt curtain was installed on 11 May 2017 and therefore, water monitoring result is reported from May. There was no Action and Limit Level exceedance for water quality recorded at the monitoring stations shown at **Table 2.2** by the Environmental Team of Contract No. HY/2010/02 during May.
- 4.1.5 Ecological monitoring results at all transects are reported in the EM&A report (for May 2017) prepared by Contract No. HY/2010/02.

4.2 Summary of Complaints, Notification of Summons and Successful Prosecution

- 4.2.1 There were three complaints received in relation to the environmental impact during the reporting period. The summary of environmental complaints is presented in **Table 4.1**. The details of cumulative statistics of Environmental Complaints are provided in **Appendix I**.

Table 4.1 Summary of Environmental Complaints for the Reporting Period

Log No.	Environmental Complaint Ref. No.	Date of Complaint Receipt	Description
006	ENPO-C0110	21 March 2017	Water pollution
007	ENPO-C0113	28 March 2017	Noise and water pollution
008	ENPO-C0119	31 May 2017	Air pollution

(a) 21 March 2017 (Log No. 006)

The complaint was received by EPD from a member of the public on 21 March 2017. The complainant complained about the construction site at the east of HZMB artificial island in Tung Chung which was belonged to Dragages Hong Kong. The construction site discharged waste water into open water frequently in the evening causing ecological pollution.

Due to lack of information, The ET of Contract No. HY/2013/03 (including Contract No. HY/2013/06 within Contract No. HY/2013/03) cannot conclude that the captioned complaint is related to the construction activities of our contract. Nevertheless, the Contractor had been reminded to comply with the requirements stipulated in the Environmental Mitigation Implementation Schedule (EMIS) of the EM&A Manual, in particular:

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- Water Quality

- W2: Land Work

- Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters

(b) 28 March 2017 (Log No. 007)

The complaint was received by EPD from a member of the public who lived in Century Link on 27 March 2017. The complainant complained that starting from around 10pm to midnight on 27 March 2017, there were loud noise outside. By observation, the noise should come from the construction of artificial island of HZMB. Besides, in the morning on 28 March 2017, water pollution was observed in the sea outside which should result from HZMB project.

After investigation, The ET of Contract No. HY/2013/03 (including Contract No. HY/2013/06 within Contract No. HY/2013/03) concluded that the captioned complaint is not related to the construction activities of our contract. Nevertheless, the Contractor had been reminded to comply with the requirements stipulated in the Environmental Mitigation Implementation Schedule (EMIS) of the EM&A Manual, in particular:

Construction Noise (air borne):

N1: Use of good site practices to limit noise emissions: machines and plants (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; and

N5: sequencing operation of construction plants where practicable.

Water Quality

W1:

- Loading of barges and hoppers shall be controlled to prevent splashing of dredged material to the surrounding water. Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation;
- Any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes;
- The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site.

W2: Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters.

(c) 31 May 2017 (Log No. 008)

The complaint was received by EPD from a member of the public on 31 May 2017. The complainant complained that as there was no watering for dust suppression on the road next to Building 044 and 045 on the artificial island of HZMB, a lot of dust was raised when vehicles passed by causing serious nuisance.

After investigation, The ET of Contract No. HY/2013/03 (including Contract No. HY/2013/06 within Contract No. HY/2013/03) concluded that the captioned complaint is not related to the construction activities of Contract No. HY/2013/03. Nevertheless, the Contractor had been reminded to discuss and reach a written agreement with the Contractor of Buildings 044 and

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045 about the responsibility of maintaining the road next to Buildings 044 and 045. The Contractor had also been reminded to fulfil the conditions set out in the EP, in particular:

- Condition 3.23:

The Permit Holder shall undertake watering at least 8 times per day on all exposed soil within the Project site and associated work areas throughout the construction phase.

The Contractor had also been reminded to comply with the requirements stipulated in the Environmental Mitigation Implementation Schedule (EMIS) of the EM&A Manual, in particular:

- Air Quality:

A3: The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase. The complaint was still under investigation. Details will be reported in the coming reporting period.

4.2.2 No notification of summons or prosecutions was received during the reporting period.

4.2.3 Statistics on notifications of summons and successful prosecutions are summarized in **Appendix I**.

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5. COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

5.1 Comments

- 5.1.1 According to the environmental site inspections undertaken during the reporting period, the following recommendations were provided:

For Contract No. HY/2013/03

1. CHEC was reminded to remove stagnant water accumulated on site;
2. CHEC was reminded to remove general refuse accumulated on site;
3. CHEC was reminded to provide drip trays for chemical containers;
4. CHEC was reminded to increase watering for dust suppression on site;
5. CHEC was reminded to provide drip trays for generators and air compressors;
6. CHEC was reminded to remove food waste on site;
7. CHEC was reminded to improve housekeeping.

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

- No recommendation.

- 5.1.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix E**. All necessary mitigation measures at this stage of works were implemented properly.

5.2 Recommendations

- 5.2.1 With implementation of the recommended environmental mitigation measures, the contract's environmental impacts were considered environmentally acceptable. The weekly environmental site inspections ensured that all the environmental mitigation measures recommended were effectively implemented.
- 5.2.2 The recommended environmental mitigation measures, as included in the EM&A programme, effectively minimize the potential environmental impacts from the contract. Also, the EM&A programme effectively monitored the environmental impacts from the construction activities and ensure the proper implementation of mitigation measures. No particular recommendation was advised for the improvement of the programme.

5.3 Conclusions

- 5.3.1 Commencement of Contract No. HY/2013/03 took place on 10 April 2015 and the construction works of Contract No. HY/2013/03 commenced on 29 August 2015 (commencement of Contract No. HY/2013/06 took place on 14 August 2015 and the construction works of Contract No. HY/2013/06 commenced on 13 September 2016 within Contract No. HY/2013/03 works area). This is the 7th Quarterly EM&A Report summarising the findings of EM&A activities conducted under Contract No. HY/2013/03 from 01 March 2017 to 30 May 2017 (includes the findings of EM&A activities conducted under Contract No. HY/2013/06 within Contract No. HY/2013/03 works area from 01 March 2017 to 30 May 2017).

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Email : mcl@fugro.com



Report No.: 0165/15/ED/0820

- 5.3.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A Reports (for March, April and May 2017) prepared by Contract No. HY/2011/03.
- 5.3.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 5.3.4 There was no Action and Limit Level exceedance for noise recorded at station NMS2 and station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 5.3.5 As silt curtain was installed on 11 May 2017 and therefore, water monitoring result is reported from May. There was no Action and Limit Level exceedance for water quality recorded at the monitoring stations shown at **Table 2.2** by the Environmental Team of Contract No. HY/2010/02 during May.
- 5.3.6 Ecological monitoring results at all transects are reported in the EM&A report prepared by Contract No. HY/2010/02.
- 5.3.7 Environmental site inspection was carried out on 2, 9, 16, 24 and 30 March 2017, 5, 12, 20, and 28 April 2017 and 5, 11, 18 and 26 May 2017 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area). Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.
- 5.3.8 There were three complaints received in relation to the environmental impact during the reporting period. After investigation, one complaint cannot be concluded that the captioned complaint was related to Contract No. HY/2013/03 due to lack of information. The second and third complaints were not related to Contract No. HY/2013/03.
- 5.3.9 There were no notifications of summons or prosecutions received during the reporting period.

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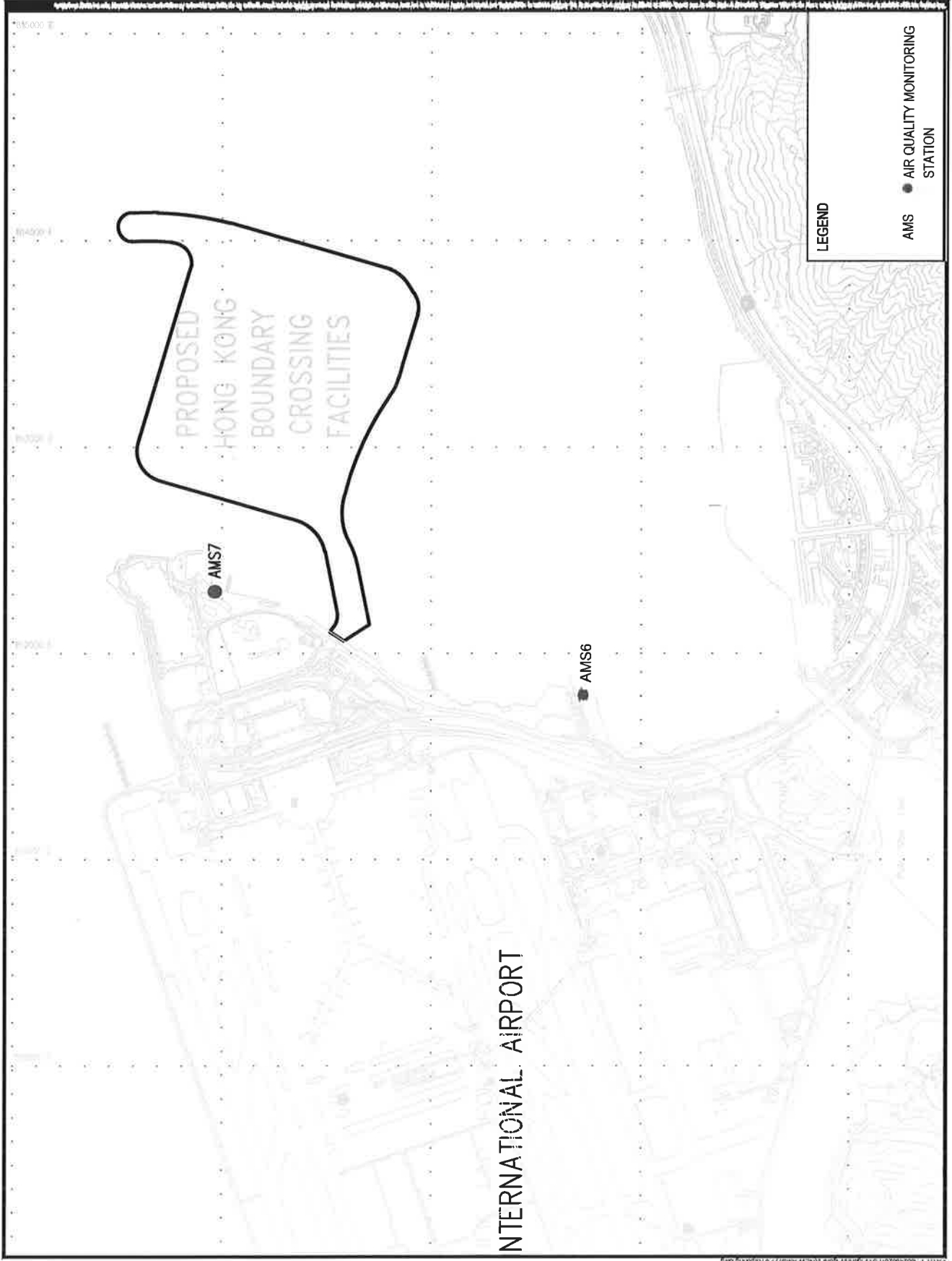
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Figure 1

Air Quality Monitoring Stations



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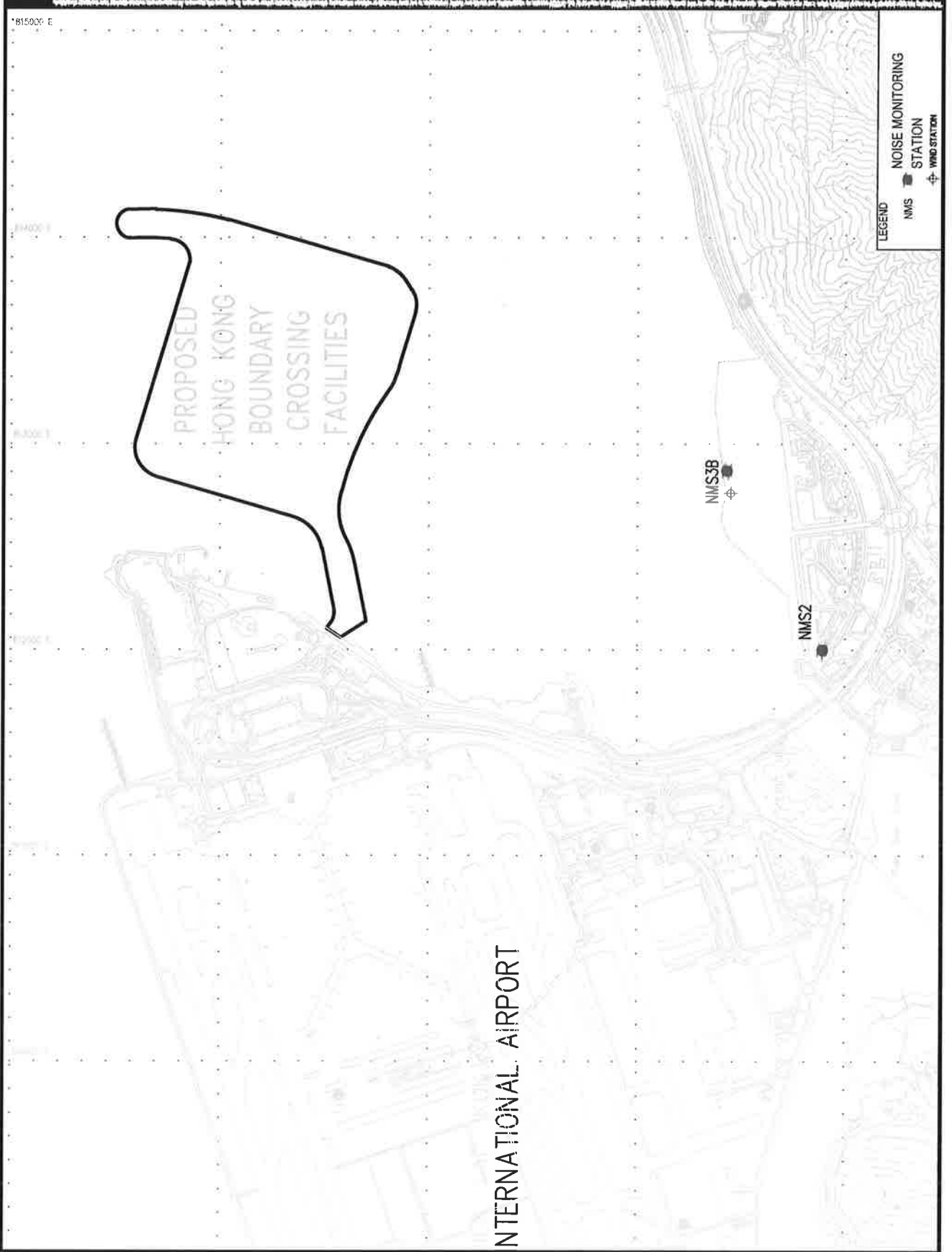
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Figure 2

Noise Monitoring Stations



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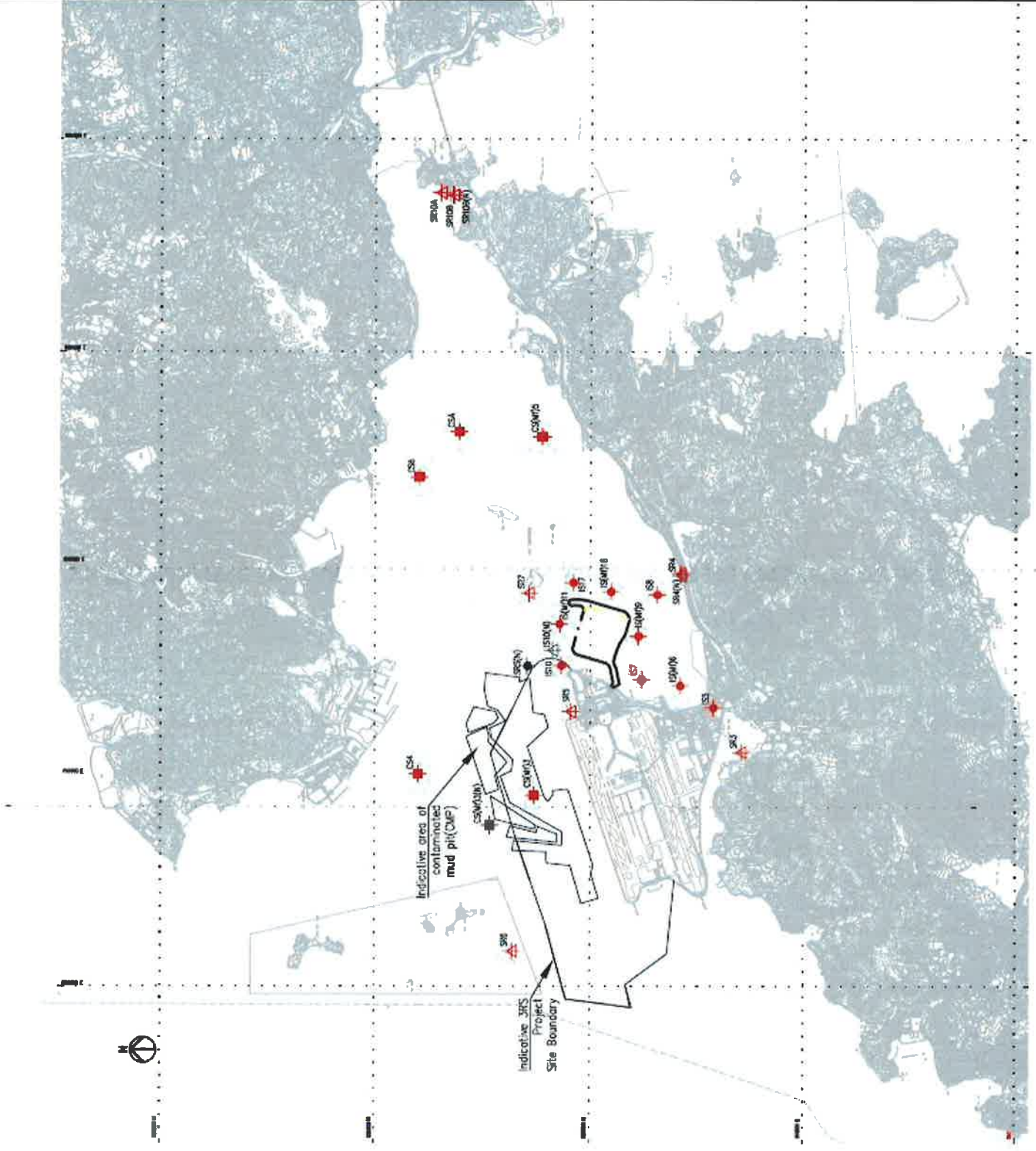
Figure 3

Water Quality Monitoring Stations

- LEGEND**
- IS IMPACT STATIONS
 - CS CONTROL / FAR FIELD STATIONS
 - SR SENSITIVE RECEIVER STATIONS
 - IS IMPACT STATIONS (RELOCATED)
 - SR SENSITIVE RECEIVER STATIONS (RELOCATED)
 - CS CONTROL / FAR FIELD STATIONS (RELOCATED)

SETTING OUT SCHEDULE

MONITORING STATIONS	CO-ORDINATES	
	EASTING	NORTHING
IS3	011079	077006
IS(M)6	022104	077073
IS7	022244	076777
IS8	014259	076412
IS(M)8	013273	076850
SR5(M)	012210	024175
IS(M)11	013062	020716
IS(M)16	014228	019997
IS17	014539	020301
SR3	010025	016466
SR(M)	017005	017850
IS10(M)	012942	020001
SR6	009037	027008
SR7	014033	021431
SR10A	023749	023485
SR10B(M)	023003	023007
CS(M)13(M)	009014	022305
CS(M)15	017998	021129
CS4	010025	024004
CS5	017003	023002
CSA	016103	023004
SR5	014257	020070
SR5	014100	020405
CS(M)13	009000	021177



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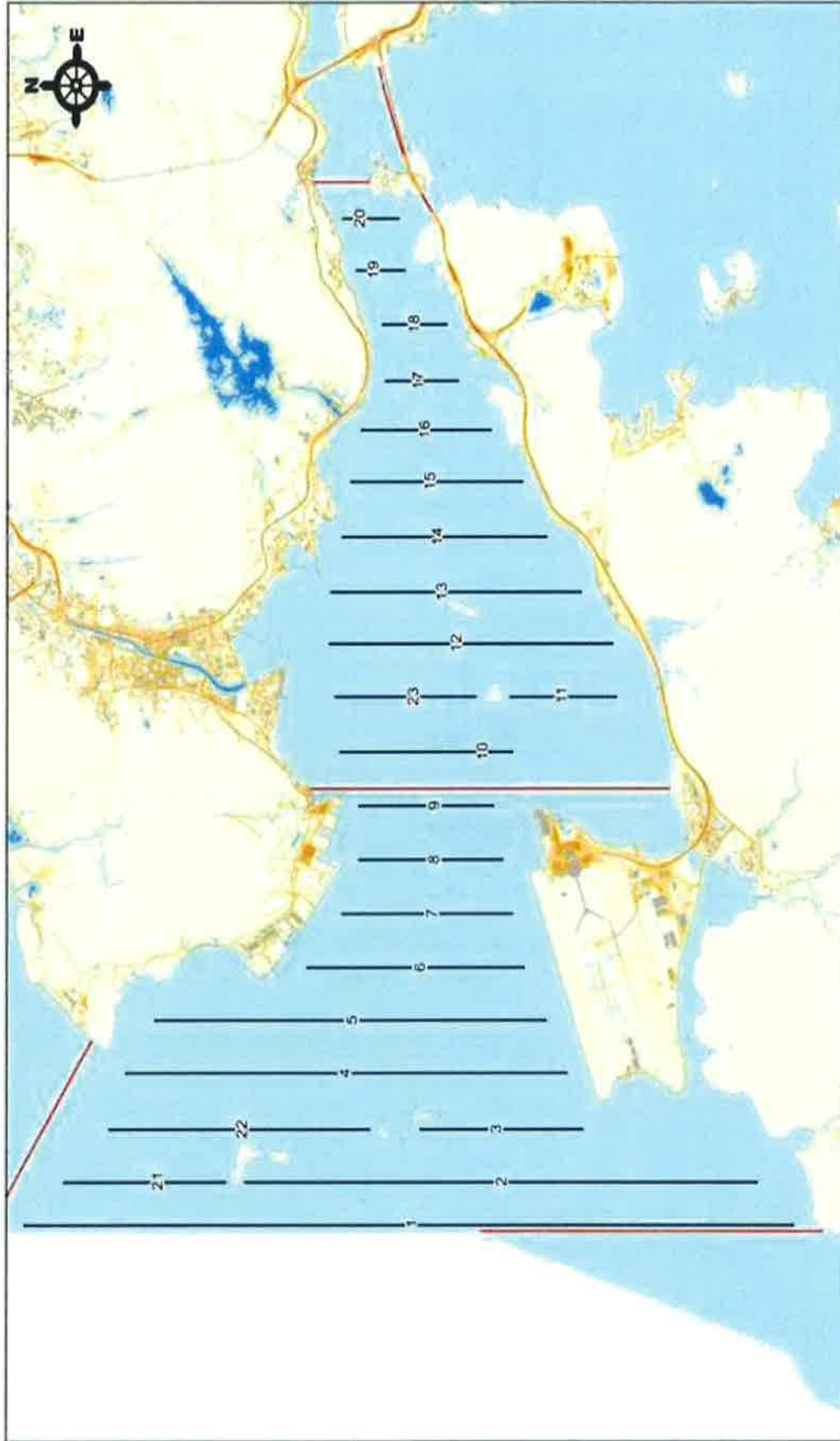
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Report No.: 0165/15/ED/0820

Figure 4

Original Ecological Monitoring Transect Line and Layout Map before the Changes of EM&A Programme



Remarks:

*Transect 10 is now 3.6km in length due to the HKBCF construction site.

^Coordinates for transect lines 1, 2, 7, 8, 9 and 11 have been updated in respect to the Proposal for Alteration of Transect Line for Dolphin Monitoring approved by EPO on 19 August 2015. The total transect length for both NEL and NWL combined is 108km.

Dolphin Monitoring Transect Line and Layout Map

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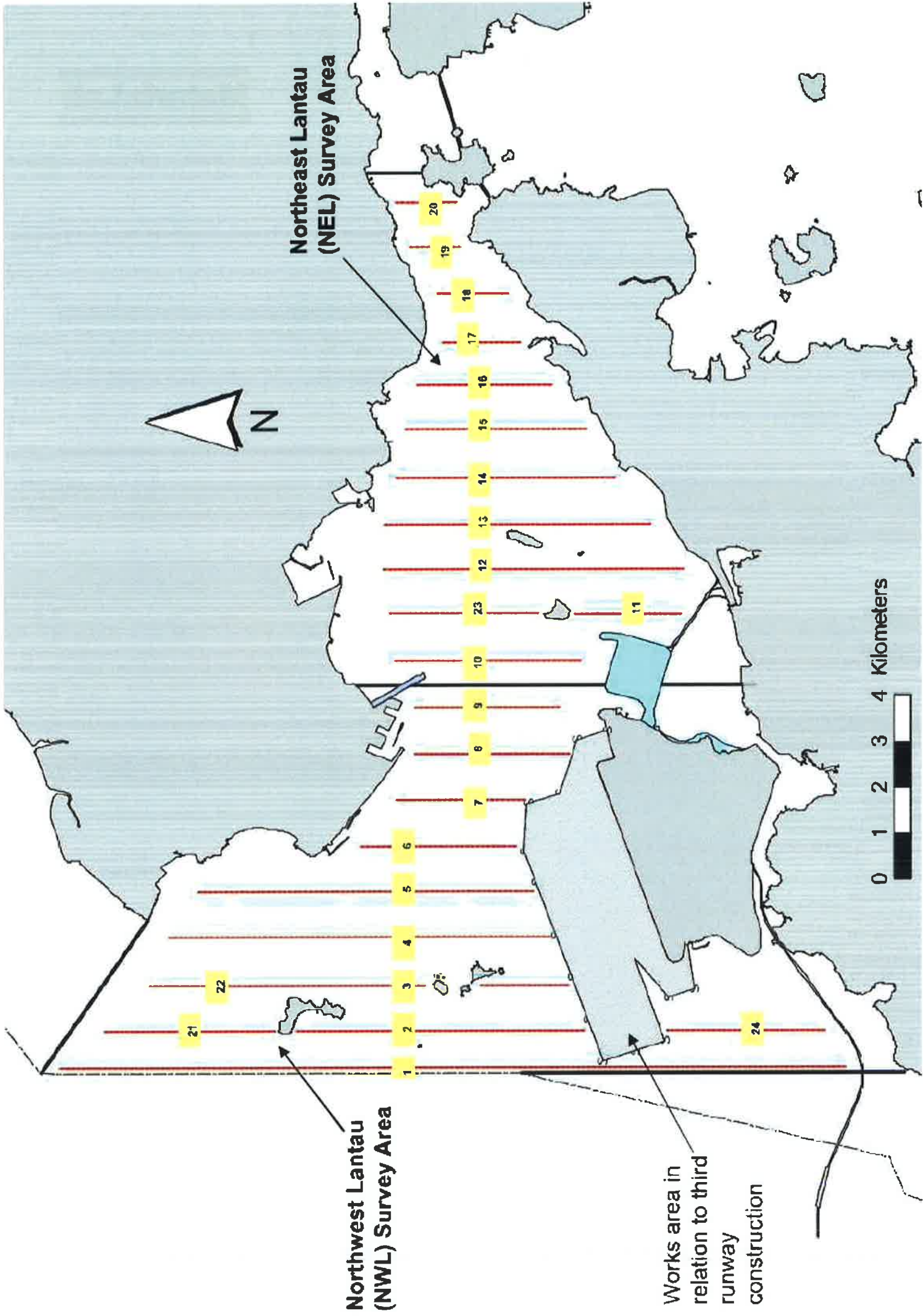
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Figure 5

New Ecological Monitoring Transect Line and Layout Map after the Changes of EM&A Programme



Northeast Lantau
(NEL) Survey Area



Northwest Lantau
(NWL) Survey Area

Works area in
relation to third
runway
construction

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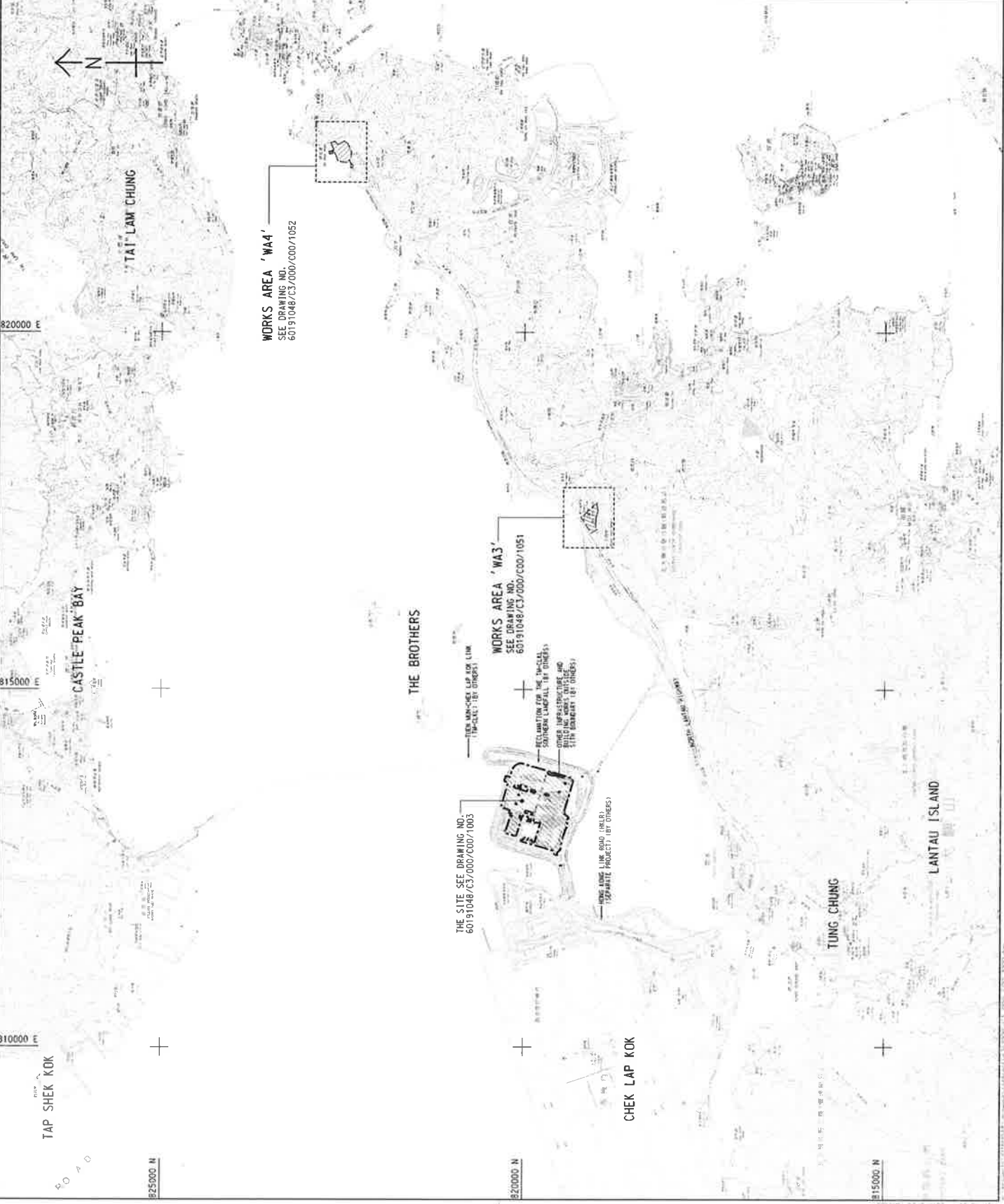
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Appendix A

Location of Works Areas



- NOTES:**
- 1. COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
 - 2. DIMENSIONS ARE IN MILLIMETER AND DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
 - 3. DIMENSIONS IN BRACKET ARE IN COMPLIANCE WITH DRAWING STANDARD CS/000/000/1052.

LEGEND:

- SITE BOUNDARY
- WORKS AREA

TECHNICAL DRAWING	DATE: 14 MAR 14
DRAWN BY: []	CHECKED BY: []
MTR CORPORATION LIMITED 港鐵有限公司 香港地下鐵及輕鐵工程處 HONG KONG METRO RAIL CORPORATION LIMITED MTR RAILWAY DEPARTMENT ENGINEERING SERVICES HONG KONG BOUNDARY CROSSING FACILITIES TRANSPORTATION FACILITIES ANCILLARY BUILDINGS AND FACILITIES	
SITE LOCATION PLAN	
CLIENT: Rogers Shirk Harbour + Partners BURD HOPWOOD ATKINS AOI	
DRAWING NO.: 60191048/C3/000/C00/1000 WORK AREA: WORK AREA	
DATE OF ISSUE:	14 MAR 2014
SCALE:	A1 : 1 : 25000
COPYRIGHT RESERVED	版權所有

WORKS AREA 'WA4'
 SEE DRAWING NO.
 60191048/C3/000/C00/1052

WORKS AREA 'WA3'
 SEE DRAWING NO.
 60191048/C3/000/C00/1051

THE SITE SEE DRAWING NO.
 60191048/C3/000/C00/1003

RECLAMATION FOR THE ISLANDS,
 SOUTHERN LANDFILL, THE DUNES,
 OTHER INFRASTRUCTURE AND
 SITE BOUNDARY (IF ANY)

HONG KONG LIME ROAD (ORLER)
 (PROPERTY PROPERTY (IF ANY))

GRID COORDINATES: EASTING 815000, 820000, 825000; NORTHING 815000, 820000, 825000.

NOTE:
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NO. 60191048/C3/000/C00/1002.

LEGEND:

- - - SITE BOUNDARY
- ▭ VIADUCT
- ▨ BUILDING/FACILITIES

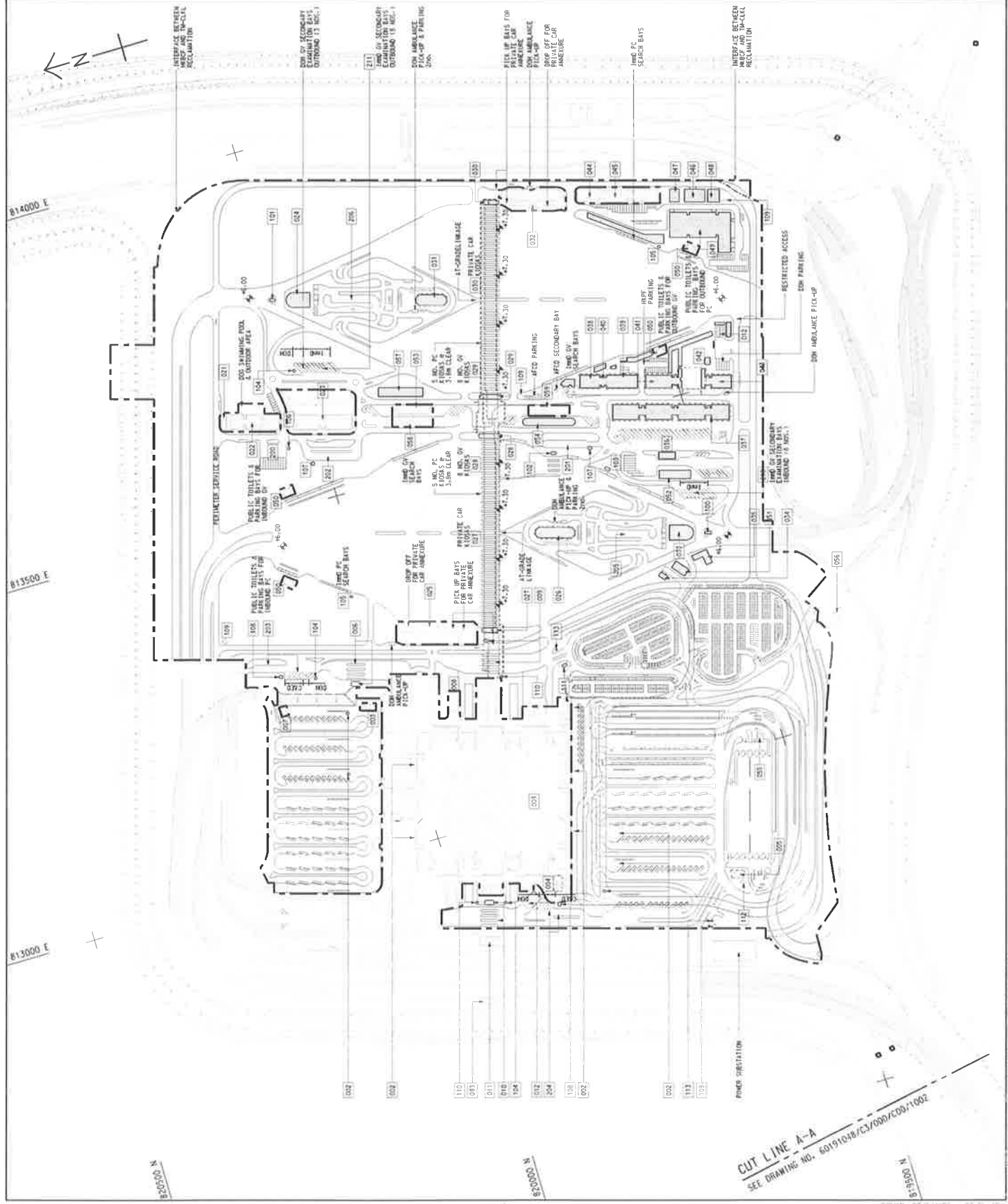
NO.	DESCRIPTION	DATE
1	TENDER DRAWING	DEC 14 2014
2	REVISED	
3	REVISED	



Figure 1-1
Current Layout Plan

AECOM
Rogers Shirk Harbour + Partners
BURNS MCDERMOTT
ATKINS ADI

DRGNO. 圖號	60191048/C3/000/C00/1001	
DATE 日期	REVISED BY 修改人	REVISED DATE 修改日期
SCALE 比例	1:1	2500
UNIT 單位	METRES	



CUT LINE A-A
SEE DRAWING NO. 60191048/C3/000/C00/1002

Project: Airport Authority Headquarters
Drawing No: 60191048/C3/000/C00/1001
Date: 14 Dec 2014

POINT	EASTING	NORTHING
301	817462.255	819182.483
302	817374.741	819064.828
303	817322.198	818968.205
304	817400.855	818172.811
305	817340.825	818022.714
306	817398.528	818031.455
307	817381.661	818042.778
308	817466.133	818097.001
309	817465.183	818087.181
310	817513.448	818117.104
311	817447.717	818016.082
312	817465.578	818032.307
313	817463.383	818013.157
314	817551.134	818061.005
315	817551.245	818051.206
316	817549.249	818000.620
317	817499.827	818074.578
318	817522.110	818074.288
319	817564.404	818034.472
320	817564.507	818004.528
321	817569.551	818036.621

WORKS AREA WA3

TUNG CHUNG

LOCATION PLAN
SCALE 1 : 25000

NOTES:

- COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
- DIMENSIONS ARE IN MILLIMETER AND CHANGE ARE IN METRES UNLESS OTHERWISE SHOWN.

LEGEND:

WORKS AREA BOUNDARY

- PORTION 3.1
- PORTION 3.2
- PORTION 3.3
- PORTION 3.4
- PORTION 3.5
- PORTION 3.6
- PORTION 3.7
- PORTION 3.8
- PORTION 3.9
- PORTION 3.10

NON-BUILDING AREA
"BOMB" SYMBOL

FOR CONSTRUCTION

NO.	DESCRIPTION	DATE	BY
C	REVISION DRAWING	14/01/15	WY/15
B	TERMINAL AMENDMENT NO. 2	28/01/14	WY/14
A	TERMINAL AMENDMENT NO. 1	28/01/14	WY/14
-	TERMINAL AMENDMENT NO. 1	28/01/14	WY/14

U.S. AIR FORCE
HONG KONG AIRPORT AUTHORITY
AIRPORT OPERATIONS AND SERVICES DIVISION
AIRPORT BUILDINGS AND FACILITIES

WORKS AREA WA3

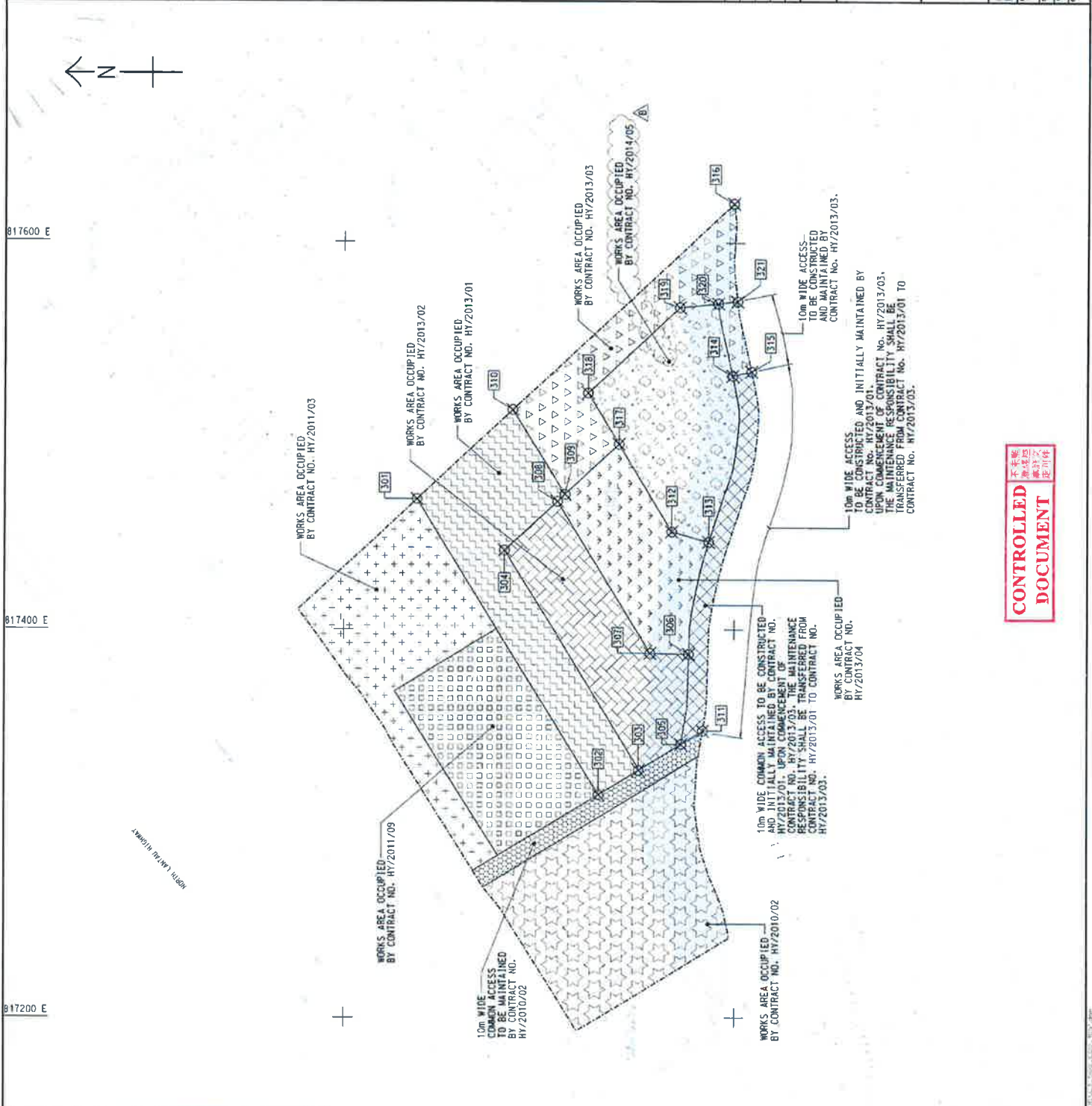
AECOM Aedas
Rogers Stark Harbour + Partners
SUHO HONGKONG AIRPORT AED

DRGNO 6019104B/C3/000/C00/1051C

DATE: 14/01/15
SCALE: 1:1000
PROJECT: METRES

WORKING DRAWING

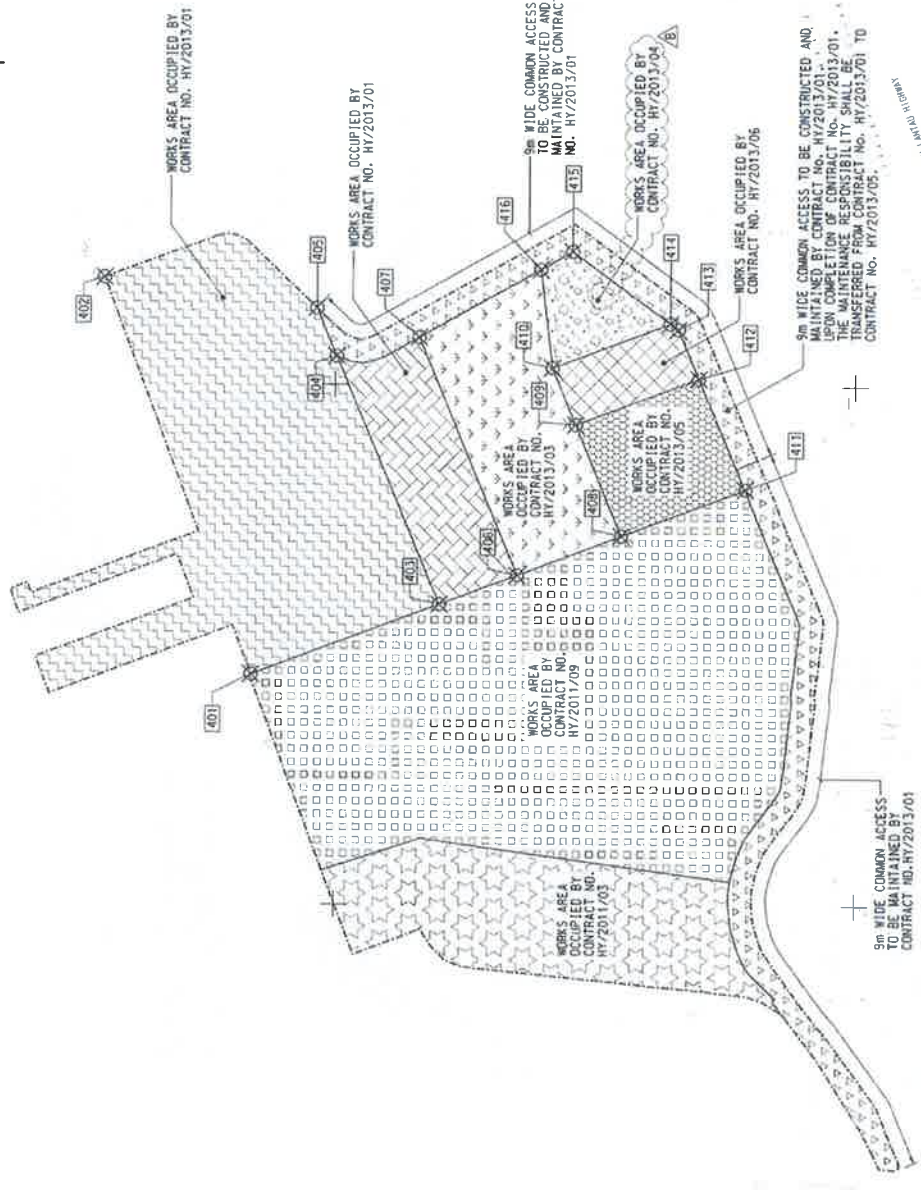
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CONTROLLED DOCUMENT

SETTING OUT POINT	
POINT	NORTHING
401	822488.551
402	822485.992
403	822515.608
404	822470.940
405	822479.428
406	822526.848
407	822516.248
408	822542.232
409	822584.903
410	822606.446
411	822600.278
412	822602.849
413	822631.914
414	822624.120
415	822651.725
416	822644.758
	822521.192

822400 E
822600 E



WORKS AREA WA4
KAP SHUI MUN
SUNNY BAY
TSO WAN

LOCATION PLAN
SCALE 1:25000

- NOTES:**
- COORDINATES ARE RELATED TO HONG KONG METRIC
 - DIMENSIONS ARE IN MILLIMETRES AND DIMENSIONS ARE IN METRES UNLESS OTHERWISE SHOWN
- LEGEND:**
- WORKS AREA BOUNDARY
 - PORTION 4.1
 - PORTION 4.2
 - PORTION 4.3
 - PORTION 4.4
 - PORTION 4.5
 - PORTION 4.6
 - PORTION 4.7
 - PORTION 4.8
 - PORTION 4.9

FOR CONSTRUCTION

C	WORKING DRAWING	DATE	1 MAY 13
B	TENDER ADDENDUM NO. 2	DATE	1 MAY 14
A	TENDER ADDENDUM NO. 1	DATE	1 APR 14
-	TENDER DRAWING	DATE	1 MAY 14
PS	PRELIMINARY SITE PLAN	DATE	1 MAY 14

HONG KONG DEVELOPMENT DEPARTMENT
HONG KONG CONSTRUCTION CONTROL DIVISION
HONG KONG PUBLIC WORKS DEPARTMENT
VEHICLE CLEARANCE PERMITS AND
ANCILLARY BUILDINGS AND FACILITIES

AECOM
Rogers Stirk Harbour + Partners
Buro Happold
Atkins
AECOM

WORKING DRAWING

60191048/C3/000/C00/1052C

DATE: 1 MAY 13
SCALE: 1:25000

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Appendix B

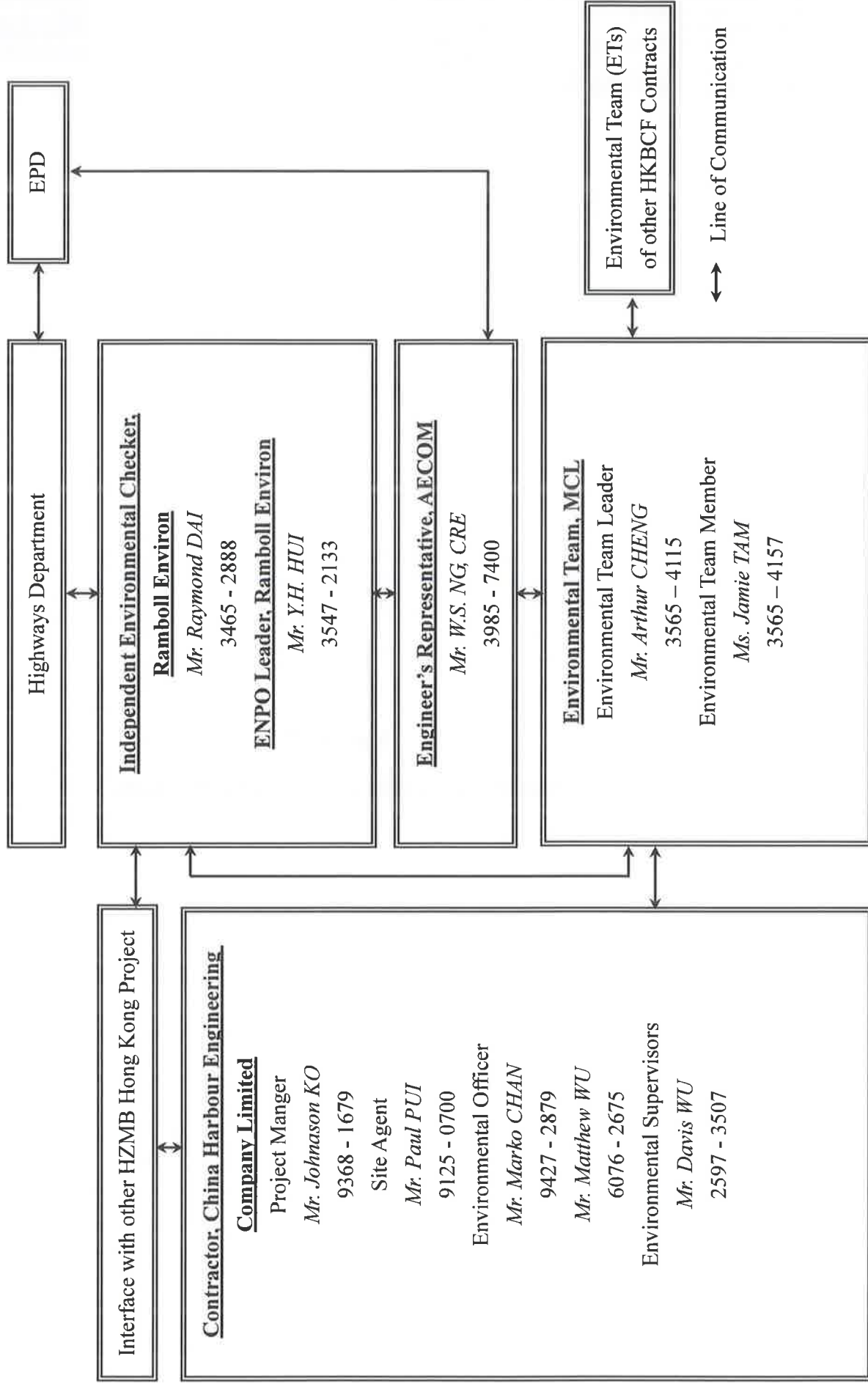
Project Organization for Environmental Works



CHINA HARBOUR ENGINEERING COMPANY LIMITED

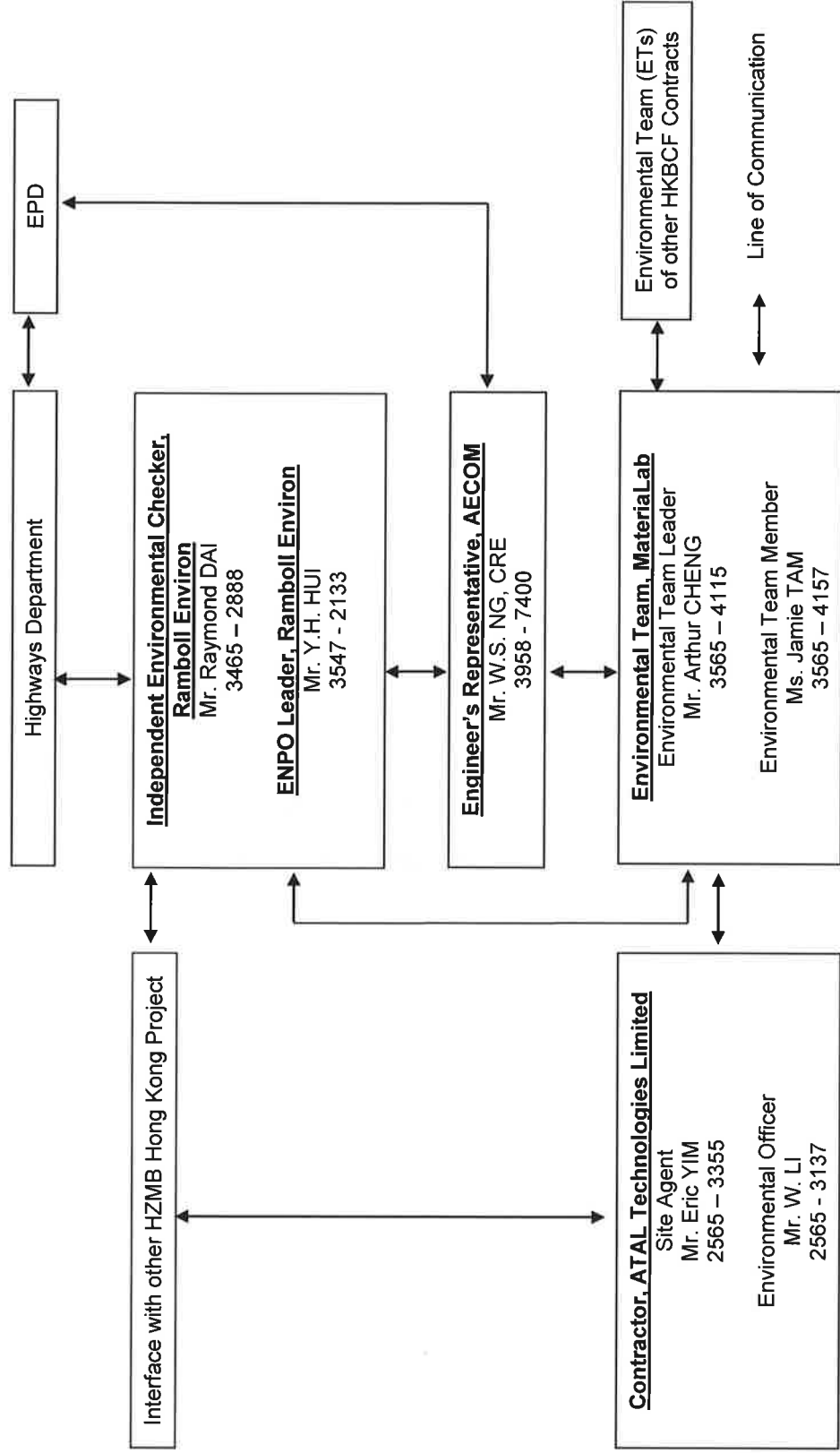
Contract No. HY/2013/03 Hong Kong-Zhuhai-Macao Bridge, Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Projects Organization for Environmental Works



Contract No. HY/2013/06 (within Contract No. HY/2013/03 works area)
 Hong Kong-Zhuhai-Macao Bridge, Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System

Projects Organization for Environmental Works



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Appendix C

Construction Programme

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	2017	Mar	Apr	May	Jun	Jul
-------------	---------------	------	-----	-----	-----	-----	-----

HKBCF - VCP & Ancillary Buildings and Facilities, DWP Rev. 3B, DD 31 Mar. 17

CONTRACT DATES

Key Dates

- A1020 KD2 Achievement of Stage 2 of the Works (460 days; 12 Jul. 16)
- A1070 KD7 Achievement of Stage 6 of the Works (500.5 days; 22 Aug. 16 EOT 1)
- A1080 KDB Achievement of Stage 7 of the Works (520 days; 10 Sep. 16)

Site Access & Possession

Possession of Portion of Site

- A0040 Possession of Portion C (<=100 days)
- A0070 Possession of Portion F (<=220 days)
- A0110 Possession of Portion J (<=320 days)
- A0150 Possession of Portion N (<=345 days)
- A0160 Possession of Portion P (<=502 days)
- A0170 Possession of Portion Q (<=500 days)
- A0180 Possession of Portion R (<=610 days)

Access to Locations of the Site

- A0210 Contract Date for Access to Location 1.1 (490 days)
- A0230 Contract Date for Access to Location 1.3 (488 days)
- A0240 Contract Date for Access to Location 1.4 (488 days)
- A0280 Contract Date for Access to Location 1.7A (610 days)
- A0290 Contract Date for Access to Location 1.7B (610 days)
- A0300 Contract Date for Access to Location 1.7C (610 days)
- A0310 Contract Date for Access to Location 1.8 PCB (Basement level up to ground floor slab) (395 days)
- A0330 Contract Date for Access to External Area for Contract HY/2013/01 for ELV System Installation (570 days)
- A0340 Contract Date for Access to External Area for Contract HY/2013/02 for ELV System Installation (560 days)
- A0350 Contract Date for Access to External Area for Contract HY/2013/04 ELV System Installation (560 days)

PORTION A1

Portion A1 Structures

Bridge A9

- Pier & Abutment**
- SA9330 Pier P903
- SA9340 Pier P902
- SA9350 Abutment A901

Structure Deck

- SA9410 Deck on A905, P904 + Stressing
- SA9415 Falsework for Deck P904 - P903
- SA9420 Deck on P904, P903 + Stressing
- SA9430 Falsework for Deck P903 - P902
- SA9440 Deck on P903 & P902 + Stressing
- SA9450 Falsework for Deck P902 - A901
- SA9460 Deck on P902 & A901 + Stressing

Retaining Wall W8-1

- SW8110 Construction of Retaining Wall W8-1 (U-shape, 4 bays)
- SW8120 Backfilling W8-1
- SW8130 Parapet W8-1 (16 pour) & E&M Works

Retaining Wall W9-1

- SW9110 Construction of Retaining Wall W9-1 (U-shape, 4 bays)

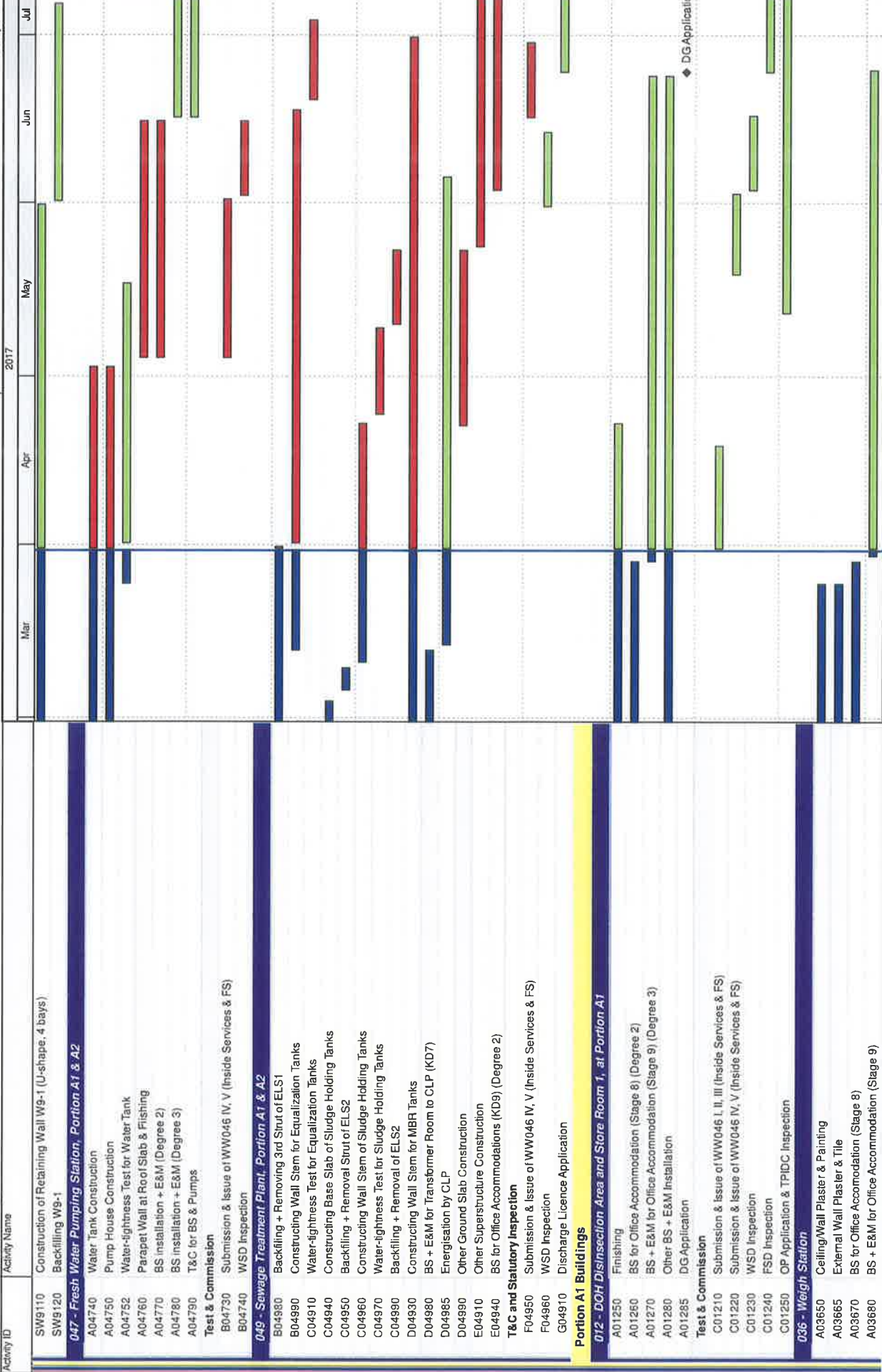


Actual Work	Green bar
Remaining Work	Blue bar
Critical	Red bar
Milestone	Diamond

Date	Revision	Checked	Approved
01-Feb-17	3MRP updated as of 31 Jan. 2017	ZJ	
28-Feb-17	3MRP updated as of 28 Feb. 2017	ZJ	
31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

03-Apr-17



Date	Revision	Checked	Approved
01-Feb-17	3MRP updated as of 31 Jan. 2017	ZJ	
28-Feb-17	3MRP updated as of 28 Feb. 2017	ZJ	
31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	

THREE MONTH ROLLING PROGRAMME

VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

Page 2 of 21

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

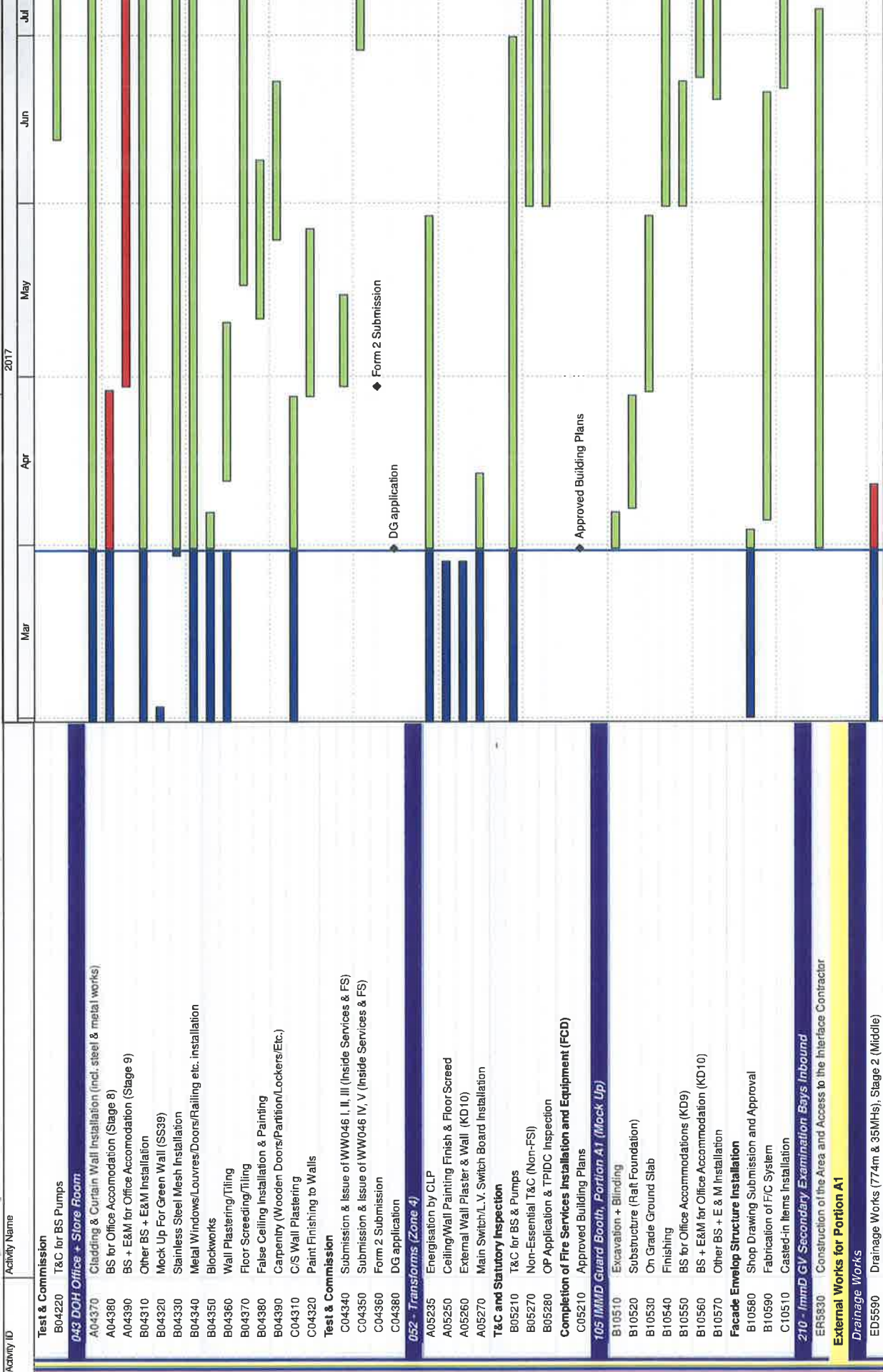
Activity ID	Activity Name	Mar	Apr	May	Jun	Jul
A03690	Other BS + E&M Installation					
B03610	T&C for BS & Pumps					
Test & Commission						
B03630	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B03640	Form 314 & 501 submission					
B03650	WSD Inspection					
B03660	FSD Inspection					
B03670	BEE0 Stage II & Accessor Certification Submission					
B03680	OP Application & TPIDC Inspection					
037 C&E&D Tower Cum Inbound Cargo Examination Building (Portion A1 & B)						
A03740	Steel Frame Structure Installation					
A03742C	Mock-up Sample for Mesh Screen Wall (SS41) & Balustrade					
A03744	Curtain Wall/Metal Roof/Aluminium Cladding Installation					
A03748	Wall/Ceiling Plastering/Tiling					
A03752	Floor Screed/Tiling					
A03756	Window/Door Frame Installation					
A03758	Paint Finish					
A03760	BS + E&M for AVCSS Cabling (KD18A)					
A03770	BS + E&M for AVCSS Cabling (KD18B)					
A03780	BS for Office Accommodation (KD9)					
A03785	BS for Office Accommodation (KD10)					
A03790	Other BS + E&M Installation					
Test & Commission						
B03730	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B03740	Form LES Submission to EMSD					
B03760	Lift Inspection by EMSD					
B03770	WSD Inspection					
B03790	Beam Plus Monthly Submission & Issue					
041 Fire Station Cum Ambulance Depot						
A04126	Cladding & Curtain Wall Installation (incl. steel & metal works)					
A04132	Blockworks					
A04133	Wall Plastering/Wall Tiling					
A04134	Floor Screeding/Tiling/Vynyl Tiles					
A04135	Ceiling/Wall Painting					
A04137	False Ceiling Installation					
A04140	BS for Office Accommodation (Stage 8)					
A04150	BS + E&M for Office Accommodation (Stage 9)					
A04160	Other BS + E&M Installation					
A04170	External Finishing					
A04180	C/S Plastering/Tiling					
Test & Commission						
B04110	T&C for BS & Pumps					
B04120	Submission & Issue of WW046 I, II, III (Inside services & FS)					
B04150	Form LES Submission to EMSD					
C04130	Beam Plus Monthly Submission & Issue					
042 Drill Tower						
A04260	Finishing					
A04270	BS for Office Accommodation (Stage 8)					
A04280	BS + E&M for Office Accommodation (Stage 9)					
A04290	Other BS + E&M Installation					

Date	Revision	Checked	Approved
01-Feb-17	3MRP updated as of 31 Jan. 2017	ZJ	
28-Feb-17	3MRP updated as of 28 Feb. 2017	ZJ	
31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	

**THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

03-Apr-17



THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

Page 4 of 21

- █ Actual Work
- █ Remaining Work
- █ Critical
- ◆ Milestone

Date	Revision	Checked	Approved
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31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

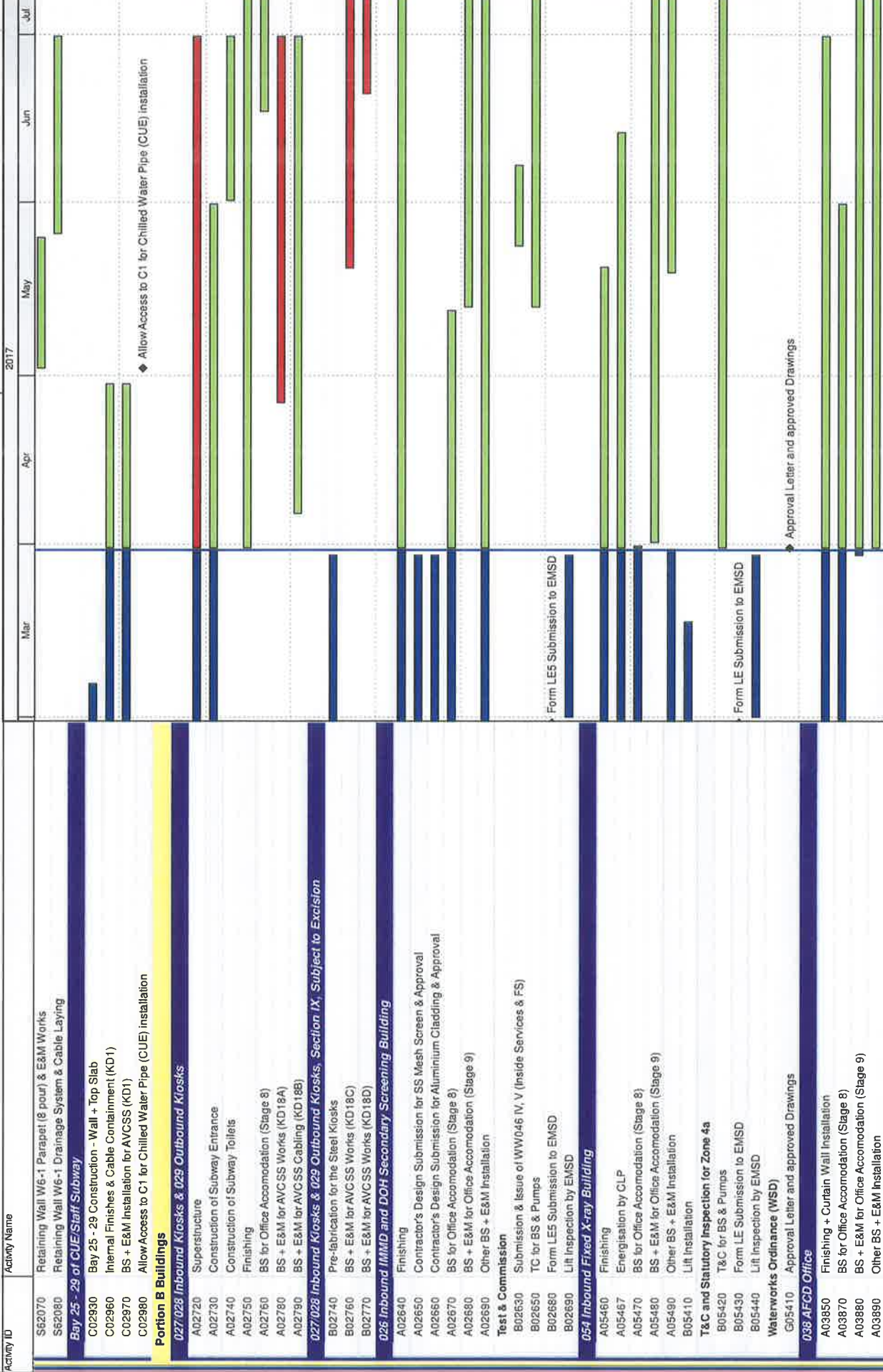
Activity ID	Activity Name	2017											
		Mar	Apr	May	Jun	Jul							
ED5600	Sewerage (300m & 9MHs), Stage 2 (Middle)												
ED5610	Drainage Works (773m & 34MHs), Stage 3 (Eastern)												
ED5620	Sewerage (269m & 7MHs), Stage 3 (Eastern)												
Waterpipe Laying													
EW5010	Fresh Water Main Laying (700 m), Stage 1 (Western)												
EW6010	Flushing Water Main Laying (322 m), Stage 1 (Western)												
EW6020	Fresh Water Main Laying (700 m), Stage 2 (Middle)												
EW6030	Flushing Water Main Laying (322 m), Stage 2 (Middle)												
EW6040	Fresh Water Main Laying (260 m), Stage 3 (Eastern)												
EW6050	Flushing Water Main Laying (323m), Stage 3 (Eastern)												
Duct Laying for Utilities, Telecom Cabling, TCSS & Lighting													
EU5260	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV												
EU5270	Duct & Cable Laying for TCSS & Lighting												
Roadworks													
ER1520	Subbase (6500 ton), Stage 1 (Western)												
PORTION A2													
Portion A2 Structures													
046 - Refuse Collection Point, Portion A2													
A04610	Raft Foundation												
A04620	Superstructure w/2 water tank												
Test & Commission													
B04620	Submission & Issue of WW046 I, II, III (Inside Services & FS)												
048 - Reclaimed Water Pumping Station, Portion A2													
A04867	Backfilling + Removal of ELS												
A04890	Backfilling												
B04810	Superstructure Construction												
B04820	BS for Office Accommodations (Stage 6) (KD9)												
B04830	BS + E&M for Office Accommodation (Stage 9) (KD10)												
B04840	Other BS + E&M Installation												
Test & Commission													
B04860	DG Application												
B04880	Submission & Issue of WW046 I, II, III (Inside Services & FS)												
Retaining Wall W9-2													
SW9210	Construction of Retaining Wall W9-2 (U-shape, 6 bay)												
External Works for Portion A2													
Drainage Works													
ED5630	Drainage Works (228m & 15MHs)												
ED5640	Sewerage (322m & 9MHs)												
Waterpipe Laying													
EW6060	Fresh Water Main Laying (336m)												
EW6070	Flushing Water Main Laying (91m)												
PORTION B													
Portion B Structures													
Retaining Wall W7-2													
S70890	Retaining Wall W7-2 Backfilling												
S70910	C3-S6 Slopeworks												
S70970	Retaining Wall W7-2 Parapet (2 pour) & E&M Works												
Retaining Wall W6-1													
S62060	Retaining Wall W6-1 Backfilling												

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Activity ID	Activity Name	Mar	Apr	May	Jun	Jul
S62070	Retaining Wall W6-1 Parapet (6 pour) & E&M Works					
S62080	Retaining Wall W6-1 Drainage System & Cable Laying					
Bay 25 - 29 of CUE/Staff Subway						
C02930	Bay 25 - 29 Construction - Wall + Top Slab					
C02960	Internal Finishes & Cable Containment (KD1)					
C02970	BS + E&M Installation for AVCSS (KD1)					
C02980	Allow Access to C1 for Chilled Water Pipe (CUE) installation					
Portion B Buildings						
027.028 Inbound Kiosks & 029 Outbound Kiosks						
A02720	Superstructure					
A02730	Construction of Subway Entrance					
A02740	Construction of Subway Toilets					
A02750	Finishing					
A02760	BS for Office Accommodation (Stage 8)					
A02780	BS + E&M for AVCSS Works (KD18A)					
A02790	BS + E&M for AVCSS Cabling (KD18B)					
028 Inbound IMMD and DOH Secondary Screening Building						
B02740	Pre-fabrication for the Steel Kiosks					
B02760	BS + E&M for AVCSS Works (KD18C)					
B02770	BS + E&M for AVCSS Works (KD18D)					
054 Inbound Fixed X-ray Building						
A02640	Finishing					
A02650	Contractor's Design Submission for SS Mesh Screen & Approval					
A02660	Contractor's Design Submission for Aluminium Cladding & Approval					
A02670	BS for Office Accommodation (Stage 8)					
A02680	BS + E&M for Office Accommodation (Stage 8)					
A02690	Other BS + E&M Installation					
Test & Commission						
B02630	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B02650	TC for BS & Pumps					
B02680	Form LE5 Submission to EMSD					
B02690	Lit Inspection by EMSD					
038 AFCD Office						
A05460	Finishing					
A05467	Energisation by CLP					
A05470	BS for Office Accommodation (Stage 8)					
A05480	BS + E&M for Office Accommodation (Stage 8)					
A05490	Other BS + E&M Installation					
B05410	Lit Installation					
T&C and Statutory Inspection for Zone 4a						
B05420	T&C for BS & Pumps					
B05430	Form LE Submission to EMSD					
B05440	Lit Inspection by EMSD					
Waterworks Ordinance (WSD)						
G05410	Approval Letter and approved Drawings					
038 AFCD Office						
A03850	Finishing + Curtain Wall Installation					
A03870	BS for Office Accommodation (Stage 8)					
A03880	BS + E&M for Office Accommodation (Stage 8)					
A03890	Other BS + E&M Installation					

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Activity ID	Activity Name	2017					03-Apr-17
		Mar	Apr	May	Jun	Jul	
Test & Commission							
B03810	T&C for BS & Pumps						
B03830	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
C03820	Form 2 Submission						
039 Police Main Building							
A03940	Finishing + Curtain Wall Installation						
A03950	BS for Office Accommodation (Stage 8), & for TCSS works (KD14)						
A03960	BS + E&M for Office Accommodation (Stage 9)						
A03970	Other BS + E&M Installation						
Test & Commission							
B03920	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
B03930	Submission & Issue of WW046 IV, V (Inside Services & FS)						
B03950	Beam Plus Monthly Submission & Issue						
C03950	Form 2 Submission						
C03970	T&C for BS & Pumps						
040 Incident Control Tower							
A04040	Superstructure						
A04050	Finishing (KD9)						
A04060	BS for Office Accommodation (Stage 8), & for TCSS works (KD14)						
A04070	BS + E&M for Office Accommodation (Stage 9)						
Facade Cladding System							
B04020	Fabrication of FC System						
B04030	Casted-in Items Installation						
B04040	Steel Frame Installation						
Glass Wall							
C04020	Fabrication of Glass Wall						
C04030	Casted-in Items Installation						
C04040	Steel Frame Installation						
Test & Commission							
D04030	T&C for BS & Pumps						
D04040	Form 2 Submission						
102 HKPF UVSS Monitor Room							
A10230	Finishing (False Ceiling) (KD9)						
A10240	BS for Office Accommodation (Stage 8)						
A10270	Other BS + E&M Installation						
C10210	WWO 46 Part I, II, III Submission (inside Service + FS)						
Metal Canopy and Roof Installation							
B10212	Fabrication of MC/R						
B10220	Casted-in Items Installation						
B10230	Steel Frame Installation						
B10240	Glass panel, metal cladding panel installation						
103 Police Inspection Post							
A10350	Finishing (False Ceiling) (KD9)						
A10360	BS for Office Accommodation (Stage 8)						
A10380	Other BS + E&M Installation						
C10320	WWO 46 Part I, II, III Submission (inside Service + FS)						
HPL Composite Panel Cladding System							
B10310	Shop Drawing Submission and Approval						
B10320	Fabrication of HPL Cladding						
B10330	Casted-in Items Installation						

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Activity ID	Activity Name	Mar	Apr	May	Jun	Jul
B10340	Steel Frame Installation					
057 Transformers (Zone 2)						
A05740	Finishing					
A05755	Energyisation by CLP					
A05780	BS for Office Accommodation (Stage 8)					
A05770	BS + E&M for Office Accommodation (Stage 9)					
A05780	Other BS + E&M Installation					
T&C and Statutory Inspection for Zone 2a & 2b						
C05700	T&C for BS & Pumps					
F05700	Essential T&C (FSI)					
F05710	Non-Essential T&C (Non-FSI)					
Completion of Fire Services Installation and Equipment (FCD)						
F05740	Provision of Approved Building Plans by the Engineer					
F05750	Application for FSI Inspection (FSI/501) c/w FSI Plan (FSI/314)					
DG License & EPD Generator Approval						
G05710	Approval Letter and approved Drawings					
107 - C&ED Mobile X-ray Operation Offices (Cargo), Portion B						
C10730	Superstructure (Root Slabs)					
C10740	Finishing					
C10750	BS for Office Accommodation (Stage 8)					
C10760	BS + E&M for Office Accommodation (Stage 9)					
C10770	Other BS + E&M Installation					
113 - Field Kiosk for Access Control, Portion B						
B11320	Raft Foundation					
B11330	Superstructure (Root Beams & Slabs)					
B11340	Finishing					
B11350	BS for Office Accommodation (Stage 8)					
B11370	Other BS + E&M Installation					
201 - Inbound Cargo Mobile X-ray Operation Area						
ER5740	Radiation Screen Wall Construction					
ER5950	Construction of the Area and Access to the Interface Contractor					
205 - Inbound Private Car Mobile X-ray Operation Area						
ER5750	Radiation Screen Wall Construction					
ER5860	Construction of the Area and Access to the Interface Contractor					
External Works for Portion B						
Drainage Works						
ED5670	Drainage Works (1130m & 60MHs), Stage 3 (N/W)					
ED5680	Sewerage (300m & 8MHs), Stage 3 (N/W)					
ED5690	Drainage Works (1130m & 60MHs), Stage 4 (N/E)					
ED5700	Sewerage (300m & 82MHs), Stage 4 (N/E)					
Waterpipe Laying						
EW6080	Fresh Water Main Laying (500m), Stage 2 (SE)					
EW6090	Flushing Water Main Laying (450m), Stage 2 (S/E)					
EW6100	Fresh Water Main Laying (500m), Stage 3 (N/W)					
EW6110	Flushing Water Main Laying (450m), Stage 3 (N/W)					
EW6190	Chilled Water Pipe Laying in Portion B (external)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5300	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5310	Duct & Cable Laying for TCSS & Lighting					
EU5550	ELV Installation					

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Activity ID	Activity Name	2017	Mar	Apr	May	Jun	Jul
Roadworks							
ER1640	Subbase (10000 ton), Stage 1 (NW)						
ER3590	Bitumen Pavement (14000 ton), Stage 1 (NW)						
ER3600	Rigid Pavement (594 m3), Footpath & EVA, Stage 1 (NW)						
ER5590	Subbase (11000 ton), Stage 2 (NE)						
ER5600	Bitumen Pavement (15000 ton), Stage 2 (NE)						
ER5610	Rigid Pavement (594 m3), Footpath & EVA, Stage 2 (NE)						
ES5240	Sign Gantry ADS 306A & ADS 306B						
	Fabrication & Delivery of Sign Gantries to Site						
PORTION C							
Portion C Buildings							
010 - Inbound Coach Kiosk & Staff Subway Entrance							
A01010	Substructure and Staircase Construction						
009 - Staff Subway Entrance (Bay 0 - 3) & Shuttle Bus Kiosks							
A00940	Finishing						
A00950	BS + E&M for AVCSS works (KD 1)						
A00960	Allow Access to C1 for Chilled Water Pipe Installation (CUJE)						
B00920	Kiosk superstructure						
B00930	BS + E&M for AVCSS works (KD18A)						
B00940	BS + E&M for AVCSS Cabling (KD18B)						
012 - DOH Disinsection Area and Store Room 1, at Portion C							
B01210	Excavation & Blinding						
B01220	Raft Foundation						
B01230	Superstructure						
B01240	Finishing						
B01270	BS for Office Accommodation (KD 9)						
104 - DOH Secondary Screening Station, at Portion C							
Facade Cladding System							
A10460	Shop Drawing Submission and Approval						
A10465	Fabrication of F/C System						
108 C&ED Mobile X-ray Machine Operation Office, Portion C							
A10805	Excavation & Blinding						
A10810	Raft Foundation						
A10840	Superstructure (Roof Beams & Slabs)						
HPL Composite Panel Cladding System							
A10800	Shop Drawing Submission and Approval						
A10815	Fabrication of HPL Cladding						
110 IMMMD Guard Booth (Type 2) East							
A11020	Excavation & Blinding						
A11030	Substructure						
A11080	Finishing						
A11090	BS for Office Accommodation (Stage 8)						
B11020	Other BS + E&M Installation						
Facade Envelop Structure Installation							
A11040	Shop Drawing Submission and Approval						
A11045	Fabrication of F/C System						
A11050	Casted-in Items Installation						
111 Field Kiosk for Carpark Operator							
A11120	Excavation & Blinding						

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Activity ID	Activity Name	2017	Mar	Apr	May	Jun	Jul
A11130	Raft Foundation						
A11140	Superstructure (Roof beams & Slabs)						
HPL Composite Panel Cladding System							
B11110	Shop Drawing Submission and Approval						
B11120	Fabrication of HPL Cladding						
B11130	Casted-in Items Installation						
113 - Field Kiosk for Access Control, Portion C							
C11310	Excavation & Blinding						
C11320	Raft Foundation						
C11330	Superstructure (Roof Beams & Slabs)						
204 - Inbound Coach Exam Area & Mobile X-ray Operation							
ER5760	Radiation Screen Wall Construction						
External Works for Portion C							
Works in Location 1.2, 1.8 & 011 - Emergency Generator Building							
BB1440	Works & T&C in Location 1.2						
BB1450	Works & T&C in Location 1.8						
BB1460	ELV System Installations and T&C for Contract HY2013/01						
BB1470	Provisioning of Civil Engineering Works for 011-Emergency Generator Building (KD18)						
Drainage Works							
B00040	Initial Survey						
SG2400	Drainage Works (400m & 18MHs), Stage 1 (Eastern)						
SG3610	Sewerage (90m & 2MHs), Stage 1 (Eastern)						
Waterpipe Laying							
SW2410	Fresh Water Main Laying (135m), Stage 1 (Eastern)						
SW2420	Flushing Water Main Laying (50m), Stage 1 (Eastern)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
SU5320	Duct & Cable Laying for Utilities/telecom, CLP, BS & ELV						
SU5330	Duct & Cable Laying for TOSS & Lighting						
Roadworks							
SR2500	Subbase (2100 ton), Stage 1 (Eastern)						
PORTION D							
Portion D Building							
113 - Field Kiosk for Access Control, Portion D							
C11360	Raft Foundation						
C11370	Superstructure (Roof Beams & Slabs)						
C11380	Finishing						
D11340	BS for Office Accommodation (Stage 8)						
External Works for Portion D							
Drainage Works							
SG3640	Drainage Works (361m & 14MHs)						
SG3760	Sewerage (121m & 6MHs)						
Waterpipe Laying							
SW3650	Fresh Water Main Laying (108m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
SU5340	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
SU5350	Duct & Cable Laying for TCSS & Lighting						
SU5640	Access date to Telephone Companies						
Roadworks							
SR3740	Subbase (261 ton)						

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Activity ID	Activity Name	2017	Mar	Apr	May	Jun	Jul
SR3770	Bitumen Pavement (619 ton)						
PORTION E							
006 - Shuttle Bus Kiosk & Staff Subway Entrance, at Portion E & M							
A00620	Constructing base of Subway						
A00630	Constructing wall stem + top slab of Subway						
A00640	Backfilling						
A00650	Constructing Ground Slab						
A00660	Constructing Kiosk (4 Nt)						
A00670	Constructing Subway Entrance						
External Works for Portion E							
Drainage Works							
SG3780	Drainage Works (99m & 5MHs)						
SG3900	Sewerage (38m & 1 MH)						
Waterpipe Laying							
SW3790	Fresh Water Main Laying (45m)						
SW3800	Flushing Water Main Laying (25m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
SU5360	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
SU5370	Duct & Cable Laying for TCSS & Lighting						
Roadworks							
SR3880	Subbase (1659 ton)						
SR3910	Bitumen Pavement (2105 ton)						
SR3920	Rigid Pavement (180 m3)						
PORTION F							
External Works for Portion F							
Drainage Works							
B00070	Initial Survey						
SG3930	Drainage Works (122m & 9MHs)						
SG4050	Sewerage (70m & 3MHs)						
Waterpipe Laying							
SW3940	Fresh Water Main Laying (205m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
SU5380	Duct & Cable Laying for Utilities/telecom, CLP, BS & ELV						
SU5390	Duct & Cable Laying for TCSS & Lighting						
SU5420	ELV Installation						
Roadworks							
SR4030	Subbase (1534 ton)						
PORTION G, H1 & H2							
Portion G Structures							
Box Culvert C							
Box Culvert Structure							
SC0310	Box C - Branch Construction						
SC0320	Box C - Branch Backfilling						
SC0380	Box C - Construction of Main Body						
SC0390	Box C - Back filling						
Bridge A1							
Structure Deck							
SA1450	Falsework for Deck P101, P102						

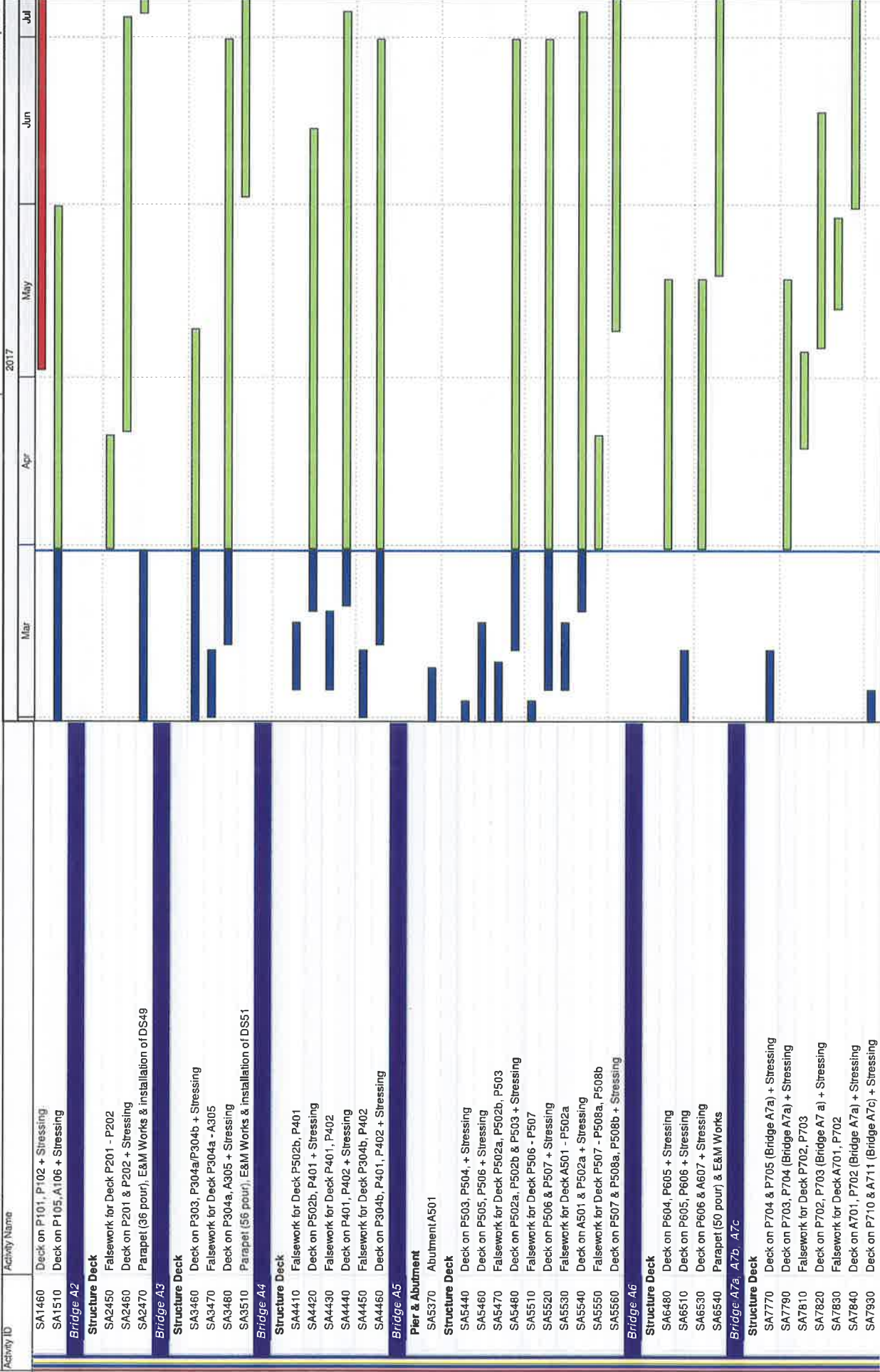
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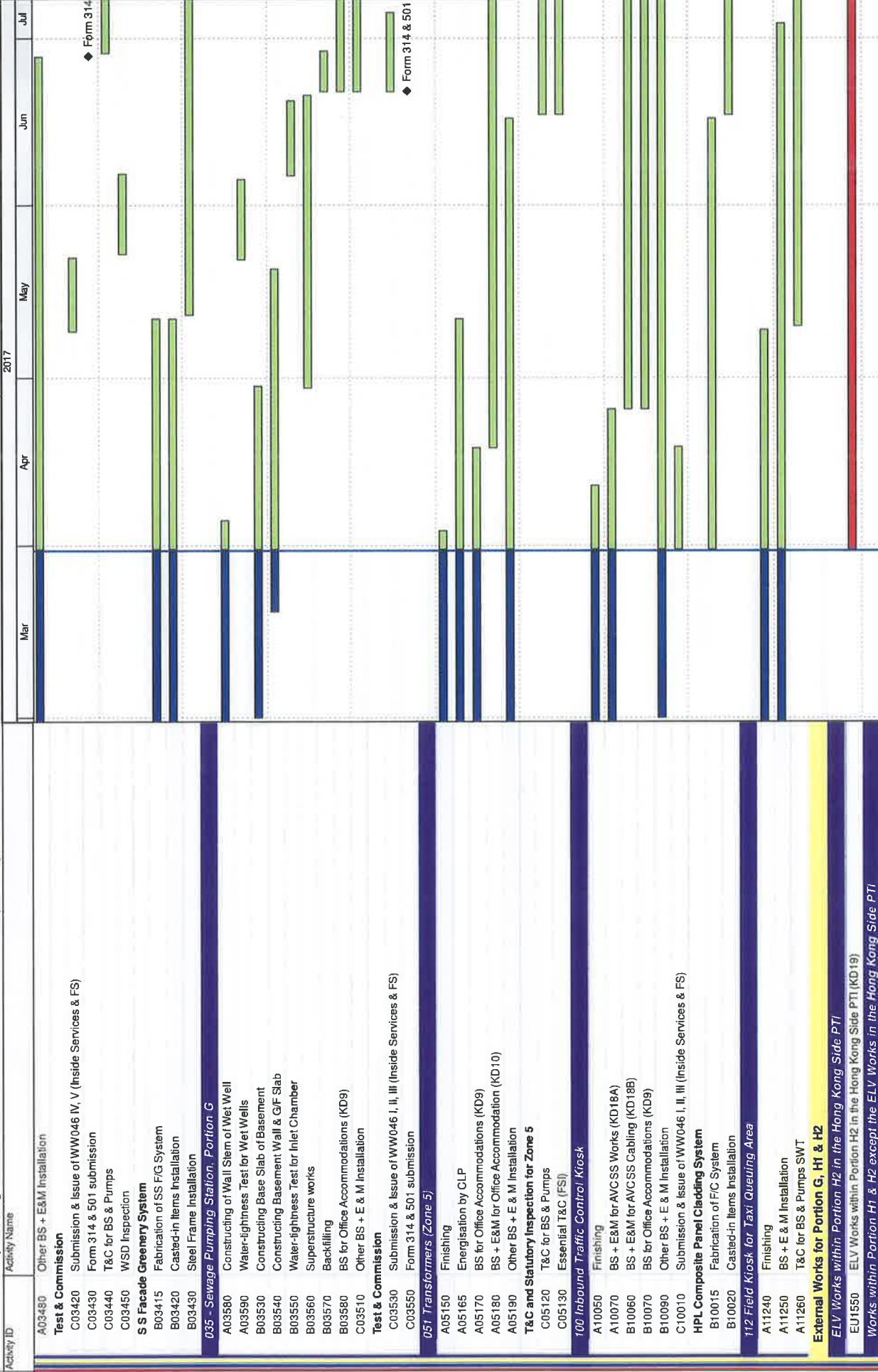
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Activity ID	Activity Name	2017					03-Apr-17
		Mar	Apr	May	Jun	Jul	
SA7940	Parapet for Bridge A7b (8 pour) & E&M Works						
SA7950	Parapet for Bridge A7c (38 pour) & E&M Works						
SA7960	Parapet for Bridge A7a (48 pour) & E&M Works						
SA7980	Bituminous Paving for A7c (400 ton)(KD25)						
Bridge A8							
Structure Deck							
SA8440	Deck on P802, P803 + Stressing						
SA8450	Falsework for Deck P803, P804						
SA8460	Deck on P803, A804 + Stressing						
SA8470	Parapet (26 Pour) & E&M works						
Retaining Walls W1-1, W3-1, W5-1 & W7-1							
Retaining Wall W1-1							
SW1110	Construction of Retaining Wall W1-1 (L-shape, 4 bays)						
SW1120	Retaining Wall W1-1 Backfilling						
Retaining Wall W3-1							
SW3150	Construction of Retaining Wall W3-1 (U-shape, 4 bays)						
SW3160	Backfilling W3-1						
Retaining Wall W5-1							
SW5010	Construction of Retaining Wall W5-1 (L-shape, 5 bays)						
Retaining Wall W7-1							
SW7110	Construction of Retaining Wall W7-1 (U-shape, 4 bays)						
Portion G Buildings							
002 - C&ED Observation Guard Booth No. 1, Portion H1							
C00220	Excavation + Blinding						
C00230	Raft Foundation						
C00240	Superstructure						
002 - C&ED Observation Guard Booth No. 2, Portion H1							
E00210	Excavation + Blinding						
E00220	Raft Foundation						
E00230	Superstructure						
003 Inbound Private Car Exam Building							
A03330	Finishing						
A03360	External Works						
A03370	BS for Office Accommodation (Stage 8)						
A03380	BS + E&M for Office Accommodation (Stage 9)						
A03390	Other BS + E&M Installation						
C03310	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
Glass Canopy Installation							
B03305	Fabrication of Glass Canopy						
B03350	Casted-in Items Installation						
B03360	Steel Frame Installation						
Aluminium Metal Canopy							
B03315	Fabrication of FC System						
B03320	Casted-in Items Installation						
B03330	Steel Frame Installation						
B03340	Aluminium Cladding Installation						
004 Satellite RCP South							
A03450	Finishing						
A03460	BS for Office Accommodation (Stage 8)						
A03470	BS + E&M for Office Accommodation (Stage 9)						

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities



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01-Feb-17	3MRP updated as of 31 Jan. 2017	ZJ	
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**THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities		2017					03-Apr-17
Activity ID	Activity Name	Mar	Apr	May	Jun	Jul	
EU1560	Drainage & Sewerage Works within Portion H1 & H2 in the Hong Kong Side PTI (KD20)						
EU5520	Roadworks (+ Footpath) & Canopy Erection within Portion H1 & H2 in the Hong Kong Side PTI (KD20)						
All Works within the Boundary defined in Drawing No. 60191048/CS/000/000/1050							
BEU1570	Drainage & Sewerage Works (incl. CLP) within the Boundary defined in Drawing No. 60191048/CS/000/1050						
Drainage Works							
ED4070	Drainage Works (6954m & 393MHs)						
ED4190	Sewerage (437m & 12MHs)						
Waterpipe Laying							
EW4080	Fresh Water Main Laying (1689m)						
EW4090	Flushing Water Main Laying (411m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5400	Duct & Cable Laying for Utilities/telecom, CLP, BS & ELV						
EU5560	ELV Installation						
Roadworks							
ER4170	Subbase (17045 ton)						
ER4200	Bitumen Pavement (24549 ton)						
ER4210	Rigid Pavement (514 m3), Footpath & EVA						
Sign Gantry DS40, DS41 & DS75							
ES0080	Testing for Pre-bored H Piling						
ES0180	Fabrication & Delivery of Sign Gantrys to Site						
Canopy and Covered Walkway							
CC1310	Shop drawing, Approved & Fabrication						
CC1320	Forming						
CC1330	Steel Frame Installation						
PORTION J							
Portion J Structure							
Bay 30 - 41 of CUE Slab Subway (Portion J)							
B03230	Bay 34 - 39 Construction - Wall + Top Slab, Staircase						
B03250	Bay 40 - 41 Construction - Wall + Top Slab, Staircase						
B03260	Internal Finishes & Cable Containment (KD2)						
B03270	BS + E&M Installation for AVCSS (Stage 2) (KD2)						
030 Outbound Private Car & GV Kiosks							
A03020	Pre-fabrication for the Steel Kiosks						
A03030	Superstructure (incl. Entrance & Toilet)						
A03090	Other BS + E & M Installation						
030 Outbound Kiosks, Section IX, Subject to Excision							
C03020	Pre-fabrication for the Steel Kiosks						
C03030	Superstructure						
Portion J Buildings							
023 Outbound Private Car Exam Building							
A02410	Raft Foundation						
A02420	Superstructure						
A02430	Finishing (KD9)						
A02440	BS for Office Accommodations (KD18F)						
A02450	BS + E&M for Office Accommodation (KD18G)						
A02460	Other BS + E & M Installation (KD31)						
Test & Commission							
D02410	Submission & Issue of WW046 I, II, III (Inside Services & FS)						

Actual Work	Remaining Work	Critical	Milestone

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VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

03-Apr-17

Activity ID	Activity Name	2017	Mar	Apr	May	Jun	Jul
Glass Canopy Installation							
B02415	Fabrication of F/C System						
B02420	Casted-in Items Installation						
B02430	Steel Frame Installation						
Aluminium Metal Canopy							
B02455	Fabrication of F/C System						
B02460	Casted-in Items Installation						
031 Outbound IMM and DOH Secondary Screen Building							
A03140	Superstructure						
A03150	Finishing (KD31)						
A03160	BS for Office Accommodations (KD18F)						
A03180	Other BS + E & M Installation (KD31)						
Test & Commission							
C03120	Submission & Issue of WW046 i, II, III (Inside Services & FS)						
060 - Single Storey Support Building Associated with Buildings 044 & 045							
A06025	Finishing						
A06030	BS + E&M for Transformer Room to CLP (KD8)						
A06045	Raft Foundation (other than transformer room)						
A06050	Superstructure (other than transformer room) Construction						
A06055	Energisation by CLP						
A06060	BS for Office Accommodation (Stage 10) (KD11)						
A06080	Other BS + E&M Installation						
T&C and Statutory Inspection for Zone 3a							
B06020	BEEC Stage II & Accessor Certification Submission						
B06030	T&C for BS & Pumps						
Waterworks Ordinance (WSD)							
G06020	Submission of WW046 - Part I & II (Inside Services)						
DG License & EPD Generator Approval							
G06000	DG Application						
067 Telecom Building							
A06150	Finishing (KD9)						
A06160	BS for Office Accommodations (KD9)						
A06170	BS + E&M for Office Accommodation (KD10)						
A06180	Other BS + E & M Installation						
Aluminium Metal Canopy							
B06115	Fabrication of Aluminium Cladding						
B06120	Casted-in Items Installation						
B06130	Steel Frame Installation						
101 Outbound Traffic Control Kiosk							
A10100	Excavation + Blinding						
A10110	Raft Foundation						
A10130	Superstructure (Roof Beams & Slabs)						
A10140	Finishing						
A10150	BS + E&M for AVCSS Works (KD18A)						
A10160	BS + E&M for AVCSS Cabling (KD18B)						
A10170	BS for Office Accommodations (KD9)						
A10190	Other BS + E & M Installation						
C10110	Submission of WW046 - Part I & II (Inside Services)						
HPL Composite Panel Cladding System							
B10110	Shop Drawing Submission and Approval						

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- █ Actual Work
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- ◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	Mar	Apr	May	Jun	Jul
B10120	Fabrication of HPL Cladding					
B10130	Casted-in Items Installation					
206 - Outbound Private Car Mobile X-ray Operation Area						
ER5780	Radiation Screen Wall Construction					
External Works for Portion J						
Drainage Works						
ED4220	Drainage Works (1700m & 86MHs), Stage 1					
ED4340	Sewerage (425m & 11MHs), Stage 1					
ED5710	Drainage Works (1697m & 85MHs), Stage 2					
ED5720	Sewerage (425m & 12MHs), Stage 2					
Waterpipe Laying						
EW4230	Fresh Water Main Laying (770m), Stage 1 (Northern)					
EW4240	Flushing Water Main Laying (431m), Stage 1 (Northern)					
EW6140	Fresh Water Main Laying (771m), Stage 2 (Southern)					
EW6150	Flushing Water Main Laying (431m), Stage 2 (Southern)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5420	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5430	Duct & Cable Laying for TCSS & Lighting					
Roadworks						
ER4320	Subbase (15400 ton), Stage 1 (Northern)					
ER4350	Bitumen Pavement (20000 ton), Stage 1 (Northern)					
ER4360	Rigid Pavement (173 m3), Footpath & EVA, Stage 1 (Northern)					
Sign Gantry DS104						
ES0140	Sign Gantry DS104 P-bored Piling, 8 Nr.					
ES5130	Testing for P-bored Piles					
ES5150	Fabrication & Delivery of Sign Gantries to Site					
PORTION K, L, M, S & T						
Portion K Building						
002 - C&ED Observation Guard Booth No. 1, Portion K						
A00210	Excavation + Blinding					
A00220	Raft Foundation					
A00230	Superstructure					
002 - C&ED Observation Guard Booth No. 2, Portion K						
B00210	Excavation + Blinding					
B00220	Raft Foundation					
B00230	Superstructure					
Portion M Buildings						
108 - C&ED Mobile X-ray Operation Office, Portion M						
B10800	Excavation + Blinding					
B10810	Substructure (raft Foundation)					
B10840	Superstructure (Roof beams & Slabs)					
B10850	Finishing					
B10860	BS for Office Accommodations (KD9)					
HPL Composite Panel Cladding System						
C10820	Fabrication of HPL Cladding					
C10830	Casted-in Items Installation					
104 DOH Screening Station, at Portion M						
C10400	Excavation + Blinding					
C10430	Structure (Raft Foundation)					

█ Actual Work
█ Remaining Work
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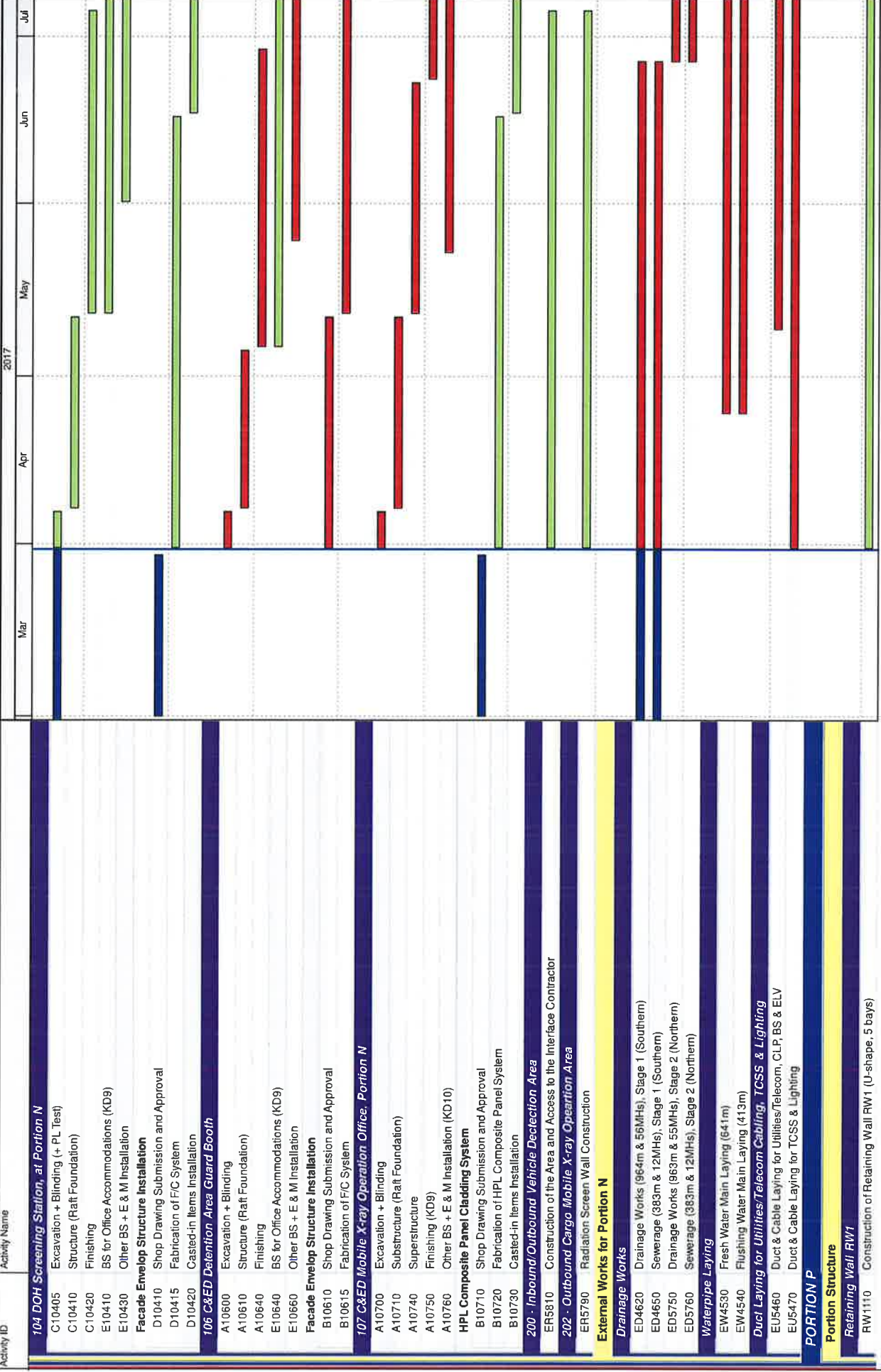
Activity ID	Activity Name	2017	Mar	Apr	May	Jun	Jul
C10440	Finishing						
C10450	BS for Office Accommodations (KD9)						
C10470	Other BS + E & M Installation						
Facade Envelop Structure Installation							
D10450	Shop Drawing Submission and Approval						
D10455	Fabrication of FC System						
D10460	Casted-in Items Installation						
203 - Outbound Coach-Shuttle Bus Exam Area & Mobile X-ray Operation Area							
ER5770	Radiation Screen Wall Construction						
External Works							
Additional Works (Filling & RE Slope), SAT							
ED3230	C1 Contractor to Completed cooling mains at east Portion (Stage 2)						
ED3310	C1 Contractor to Complete Footbridge Supports at the South Portion						
ED3320	Fill Platform from +11.5PD to near PCB (South)						
ED3330	Add surcharge to Platform at +14.5mPD near PCB (South)						
ED3410	C2 Contractor to complete abutment at the North (2 nos.)						
ED3420	Fill Slope around C2 abutments						
Construction of Slopes							
ED3440	Construction of fill slope (Stage 2) (East)						
ED3510	Footing for the Planter Wall, RE slope (North & West)						
ED3520	Construct RE slope (West)						
ED3550	Construction of fill slope (North)						
Drainage Works							
ED4370	Drainage Works (1477m & 81MHs), Stage 1 (Eastern)						
ED4490	Sewerage (78m & 2MHs), Stage 1 (Eastern)						
Waterpipe Laying							
EW4380	Fresh Water Main Laying (608m), Stage 1 (Eastern)						
EW4390	Flushing Water Main Laying (13m), Stage 1 (Eastern)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5450	Duct & Cable Laying for TOSS & Lighting						
Roadworks							
ER4470	Subbase (4600 ton), Stage 1 (Eastern)						
ER4500	Bitumen Pavement (4500 ton), Stage 1 (Eastern)						
ER4510	Rigid Pavement (750 m3) & Footpath, Stage 1 (Eastern)						
Canopy and Covered Walkway							
CC1400	Shop drawing, Approved & Fabrication						
CC1410	Footing						
PORTION N							
Portion N Structure							
Box Culvert B							
Bored Pile							
SB0560	Install H-piles						
SB0590	Box B - Foundation: Revised as pre-bored H-Piles						
Box Culvert Structure							
SB0710	Box B - Construction (Stage 1)						
SB0720	Box B - Construction (Stage 2)						
SB0722	Box B - Temporary Works for Construction of Outfall Structure						
SB0730	Box B - Outfall Structure						
Portion N Buildings							

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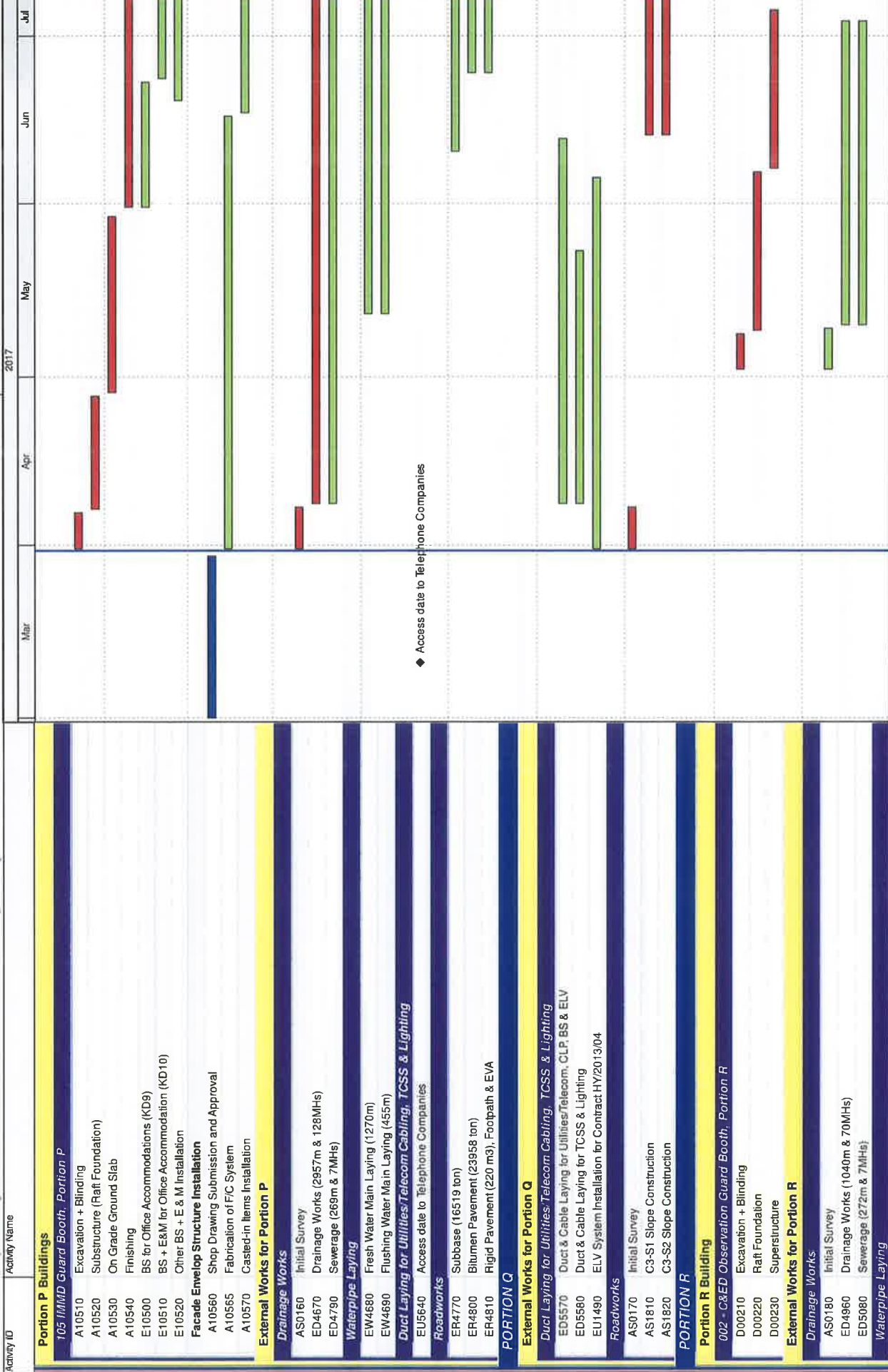
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VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES
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Contract No.: HY/2013/003

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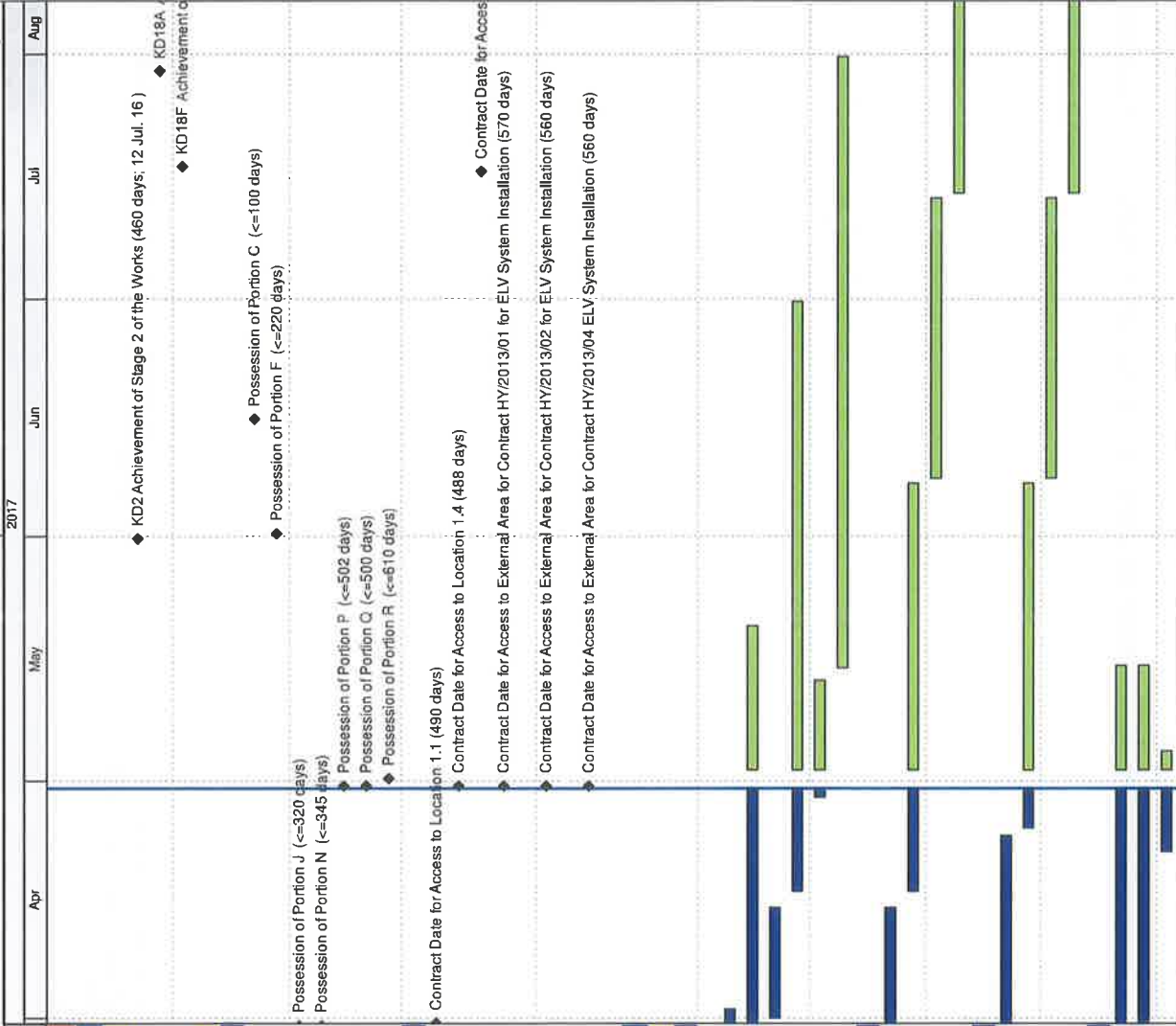
Activity ID	Activity Name	2017					03-Apr-17
		Mar	Apr	May	Jun	Jul	
EW4970	Fresh Water Main Laying (614m)						
EW4980	Flushing Water Main Laying (222m)						
	Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5500	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
EU5510	Duct & Cable Laying for TCSS & Lighting						
EU5610	ELV Installation						
	Landscape Works						
A5170	Design and Procurement for Irrigation System						

■ Actual Work
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02-May-17

2017

Apr May Jun Jul Aug

HKBCF - VCP & Ancillary Buildings and Facilities, DWP Rev. 3B, DD 30 Apr. 17

CONTRACT DATES

Key Dates

- A1020 KD2 Achievement of Stage 2 of the Works (460 days; 12 Jul. 16)
- A1180A KD18A Achievement of Stage 18 of the Works (478 days; 30 Jul. 16 EOT 1)
- A1180F KD18F Achievement of Stage 23 of the Works (730 days; 08 Apr. 17)

Site Access & Possession

- Possession of Portion of Site**
- A0040 Possession of Portion C (<=100 days)
- A0070 Possession of Portion F (<=220 days)
- A0110 Possession of Portion J (<=320 days)
- A0150 Possession of Portion N (<=345 days)
- A0160 Possession of Portion P (<=502 days)
- A0170 Possession of Portion Q (<=500 days)
- A0180 Possession of Portion R (<=610 days)

Access to Locations of the Site

- A0210 Contract Date for Access to Location 1.1 (490 days)
- A0240 Contract Date for Access to Location 1.4 (488 days)
- A0320 Contract Date for Access to Location 1.8 PCB (Ground Floor level or above) (515 days)
- A0330 Contract Date for Access to External Area for Contract HY/2013/01 for ELV System Installation (570 days)
- A0340 Contract Date for Access to External Area for Contract HY/2013/02 for ELV System Installation (560 days)
- A0350 Contract Date for Access to External Area for Contract HY/2013/04 ELV System Installation (560 days)

PORTION A1

Portion A1 Structures

Bridge A9

Structure Deck

- SA9410 Deck on A905, P904 + Stressing
- SA9420 Deck on P904, P903 + Stressing
- SA9430 Falsework for Deck P903 - P902
- SA9440 Deck on P903 & P902 + Stressing
- SA9450 Falsework for Deck P902 - A901
- SA9460 Deck on P902 & A901 + Stressing

Retaining Wall W8-1

- SW8110 Construction of Retaining Wall W8-1 (U-shape, 4 bays)
- SW8120 Backfilling W8-1
- SW8130 Parapet W8-1 (16 pour) & E&M Works
- SW8140 RW8-1 Drainage system & Cable Laying

Retaining Wall W9-1

- SW9110 Construction of Retaining Wall W9-1 (U-shape, 4 bays)
- SW9120 Backfilling W9-1
- SW9130 Parapet W9-1 (16 pour) & E&M Works
- SW9140 Drainage System & Cable Laying

047 - Fresh Water Pumping Station, Portion A1 & A2

- A04740 Water Tank Construction
- A04750 Pump House Construction
- A04752 Water-tightness Test for Water Tank

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Activity ID	Activity Name	2017					02-May-17
		Apr	May	Jun	Jul	Aug	
A04760	Parapet Wall at Roof Slab & Fishing						
A04770	BS Installation + E&M (Degree 2)						
A04780	BS Installation + E&M (Degree 3)						
A04790	T&C for BS & Pumps						
Test & Commission							
B04730	Submission & Issue of WW046 IV, V (Inside Services & FS)						
B04740	WSD Inspection						
049 - Sewage Treatment Plant, Portion A1 & A2							
B04990	Constructing Wall Stem for Equalization Tanks						
C04910	Water-tightness Test for Equalization Tanks						
D04985	Energisation by CLP						
D04990	Other Ground Slab Construction						
E04910	Other Superstructure Construction						
E04940	BS for Office Accommodations (KD9) (Degree 2)						
T&C and Statutory Inspection							
F04910	Essential T&C (FSI)						
F04950	Submission & Issue of WW046 IV, V (Inside Services & FS)						
F04960	WSD Inspection						
G04910	Discharge Licence Application						
Portion A1 Buildings							
012 - DOH Disinsection Area and Store Room 1, at Portion A1							
A01250	Finishing						
A01270	BS + E&M for Office Accommodation (Stage 9) (Degree 3)						
A01280	Other BS + E&M Installation						
A01285	DG Application						
Test & Commission							
C01210	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
C01220	Submission & Issue of WW046 IV, V (Inside Services & FS)						
C01250	OP Application & TPIDC Inspection						
036 - Weigh Station							
A03680	BS + E&M for Office Accommodation (Stage 9)						
A03690	Other BS + E&M Installation						
B03610	T&C for BS & Pumps						
Test & Commission							
B03630	Submission & Issue of WW046 IV, V (Inside Services & FS)						
B03640	Form 314 & 501 submission						
B03650	WSD Inspection						
B03660	FSD Inspection						
B03670	BEEC Stage II & Accessor Certification Submission						
B03680	OP Application & TPIDC Inspection						
037 C&ED Tower Cum Inbound Cargo Examination Building (Portion A1 & B)							
A03742C	Mock-up Sample for Mesh Screen Wall (SS41) & Balustrade						
A03744	Curtain Wall/Metal Roof/Aluminium Cladding Installation						
A03752	Floor Scaffolding						
A03756	Window/Door Frame Installation						
A03758	Paint Finish						
A03770	BS + E&M for AVCSS Cabling (KD18B)						
A03780	BS for Office Accommodation (KD9)						
A03785	BS for Office Accommodation (KD10)						
A03790	Other BS + E&M Installation						

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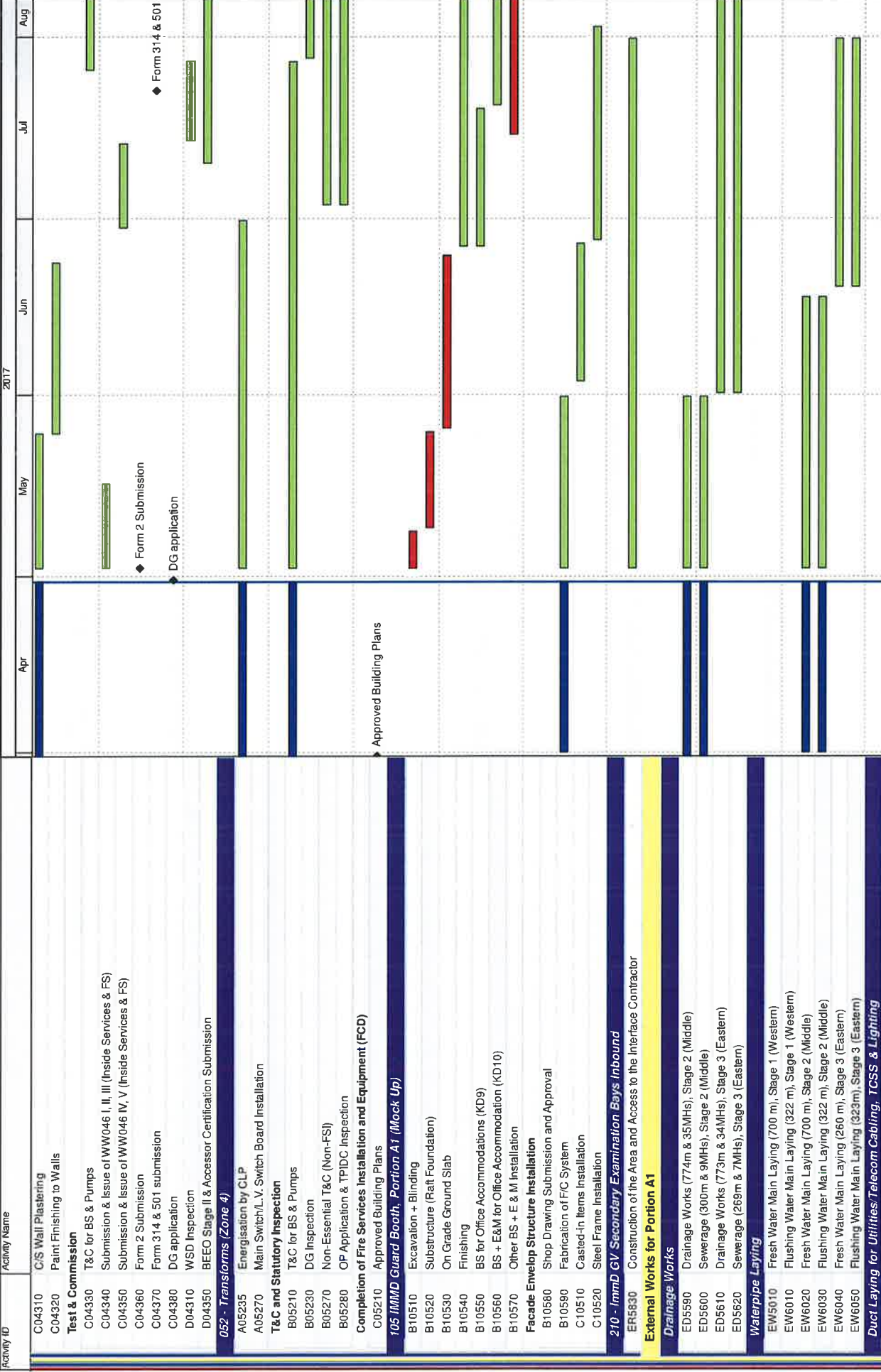
Activity ID	Activity Name	2017	Apr	May	Jun	Jul	Aug
Test & Commission							
B03710	T&C for BS & Pumps						
B03730	Submission & Issue of WW046 IV, V (Inside Services & FS)						
B03750	Form 314 & 501 submission						◆ Form 314 &
B03760	Lift Inspection by EMSD						
B03770	WSD Inspection						
B03780	FSD Inspection						
B03790	Beam Plus Monthly Submission & Issue						
041 Fire Station Cum Ambulance Depot							
A04126	Cladding & Curtain Wall Installation (incl. steel & metal works)						
A04133	Wall Plastering/Wall Tiling						
A04134	Floor Screeding/Tiling/Vinyl Tiles						
A04135	Ceiling/Wall Painting						
A04137	False Ceiling Installation						
A04140	BS for Office Accommodation (Stage 8)						
A04150	BS + E&M for Office Accommodation (Stage 9)						
A04160	Other BS + E&M Installation						
A04170	External Finishing						
A04180	C/S Plastering/Tiling						
Test & Commission							
B04110	T&C for BS & Pumps						
B04120	Submission & Issue of WW046 I, II, III (Inside services & FS)						
B04130	Submission & Issue of WW046 IV, V (Inside Services & FS)						
B04140	Form 314 & 501 submission						◆ Form 314 & 501 submiss
B04150	Form LE5 Submission to EMSD						
C04130	Beam Plus Monthly Submission & Issue						
C04140	BEEC Stage II & Accessor Certification Submission						
042 Drift Tower							
A04260	Finishing						
A04270	BS for Office Accommodation (Stage 8)						
A04280	BS + E&M for Office Accommodation (Stage 9)						
A04290	Other BS + E&M Installation						
Test & Commission							
B04210	BEEC Stage II & Accessor Certification Submission						
B04220	T&C for BS Pumps						
B04230	WSD Inspection						
B04240	FSD Inspection						
B04250	OP Application & TPIDC Inspection						
043 DOH Office + Store Room							
A04370	Cladding & Curtain Wall Installation (incl. steel & metal works)						
A04380	BS for Office Accommodation (Stage 8)						
A04390	BS + E&M for Office Accommodation (Stage 9)						
B04310	Other BS + E&M Installation						
B04330	Stainless Steel Mesh Installation						
B04340	Metal Windows/Louvers/Doors/Railing etc. installation						
B04350	Blockworks						
B04360	Wall Plastering/Tiling						
B04370	Floor Screeding/Tiling						
B04380	False Ceiling Installation & Painting						
B04390	Carpentry (Wooden Doors/Partition/Lockers/Etc.)						

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	Actual Work
	Remaining Work
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	Milestone

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

02-May-17

Activity ID	Activity Name	2017	Apr	May	Jun	Jul	Aug
EU5260	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
EU5270	Duct & Cable Laying for TCSS & Lighting						
Roadworks							
ER1520	Subbase (8500 ton), Stage 1 (Western)						
ER3540	Bitumen Pavement (10000 ton), Stage 1 (Western)						
ER3550	Rigid Pavement (900 m3), Footpath & EVA, Stage 1 (Western)						
Road Furniture							
ER0300	ELV Installation						
PORTION A2							
Portion A2 Structures							
046 - Refuse Collection Point, Portion A2							
A04610	Raft Foundation						
A04620	Superstructure w/2 water tank						
A04630	BS for Office Accommodations (Stage 8) (KD9)						
A04660	Other BS + E&M Installation						
Test & Commission							
B04620	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
B04630	Submission & Issue of WW046 IV, V (Inside Services & FS)						
048 - Reclaimed Water Pumping Station, Portion A2							
B04810	Superstructure Construction						
B04820	BS for Office Accommodations (Stage 8) (KD9)						
B04830	BS + E&M for Office Accommodation (Stage 9) (KD10)						
B04840	Other BS + E&M Installation						
Test & Commission							
B04850	T&C for BS & Pumps & SWT						
B04860	DG Application						
B04880	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
Retaining Wall W9-2							
SW9210	Construction of Retaining Wall W9-2 (U-shape, 6 bay)						
SW9220	Backfilling for Retaining Wall W9-2						
External Works for Portion A2							
Drainage Works							
ED5630	Drainage Works (228m & 15MHs)						
ED5640	Sewerage (322m & 9MHs)						
Waterpipe Laying							
EW6060	Fresh Water Main Laying (336m)						
EW6070	Flushing Water Main Laying (91m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5280	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
EU5290	Duct & Cable Laying for TCSS & Lighting						
Road Furniture							
ER2340	ELV Installation						
PORTION B							
Portion B Structures							
Retaining Wall W7-2							
S70890	Retaining Wall W7-2 Backfilling						
S70910	C-3-S6 Slopeworks						
S70970	Retaining Wall W7-2 Parapet (2 pour) & E&M Works						
S70980	Retaining Wall W7-2 Drainage System & Cable Laying						

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**THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

- █ Actual Work
- █ Remaining Work
- █ Critical
- ◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
Retaining Wall W6-1						
S62060	Retaining Wall W6-1 Backfilling					
S62070	Retaining Wall W6-1 Parapet (8 pour) & E&M Works					
S62080	Retaining Wall W6-1 Drainage System & Cable Laying					
S62210	Retaining Wall W6-1 Bituminous Paving (347 ton) (KD25)					
Bay 25 - 29 of CUE/Staff Subway						
C02960	Internal Finishes & Cable Containment (KD1)					
C02970	BS + E&M Installation for AVCSS (KD1)					
Portion B Buildings						
027 028 Inbound Kiosks & 029 Outbound Kiosks						
A02720	Superstructure					
A02730	Construction of Subway Entrance					
A02740	Construction of Subway Toilets					
A02750	Finishing					
A02760	BS for Office Accommodation (Stage 6)					
A02780	BS + E&M for AVCSS Works (KD18A)					
A02790	BS + E&M for AVCSS Cabling (KD18B)					
B02720	Other BS + E&M Installation					
Test & Commission						
B02830	Submission & issue of WW046 IV, V (Inside Services & FS)					
027 028 Inbound Kiosks & 029 Outbound Kiosks, Section IX. Subject to Excision						
B02740	Pre-fabrication for the Steel Kiosks					
B02750	Superstructure					
B02760	BS + E&M for AVCSS Works (KD18C)					
B02770	BS + E&M for AVCSS Works (KD18D)					
B02780	BS + E&M for allowing users to move in furniture (KD18E)					
028 Inbound IMMD and DOH Secondary Screening Building						
A02640	Finishing					
A02650	Contractor's Design Submission for SS Mesh Screen & Approval					
A02660	Contractor's Design Submission for Aluminium Cladding & Approval					
A02670	BS for Office Accommodation (Stage 6)					
A02680	BS + E&M for Office Accommodation (Stage 9)					
A02690	Other BS + E&M Installation					
Test & Commission						
B02630	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B02650	TC for BS & Pumps					
B02680	Lit Inspection by EMSD					
054 Inbound Fixed X-ray Building						
A05460	Finishing					
A05467	Energisation by CLP					
A05470	BS for Office Accommodation (Stage 8)					
A05480	BS + E&M for Office Accommodation (Stage 9)					
A05490	Other BS + E&M Installation					
T&C and Statutory Inspection for Zone 4a						
B05420	T&C for BS & Pumps					
B05440	Lit Inspection by EMSD					
Waterworks Ordinance (WSD)						
G05410	Approval Letter and approved Drawings					
038 AFCD Office						
A03850	Finishing + Curtain Wall Installation					

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◆ Approval Letter and approved Drawings

THREE MONTH ROLLING PROGRAMME

VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	2017					02-May-17
		Apr	May	Jun	Jul	Aug	
A03870	BS for Office Accommodation (Stage 8)						
A03880	BS + E&M for Office Accommodation (Stage 9)						
A03890	Other BS + E&M Installation						
Test & Commission							
B03810	T&C for BS & Pumps						
B03830	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
C03820	Form 2 Submission						
C03860	BEE0 Stage II & Accessor Certification Submission						
039 Police Main Building							
A03940	Finishing + Curtain Wall Installation						
A03950	BS for Office Accommodation (Stage 8), & for TCSS works (KD14)						
A03960	BS + E&M for Office Accommodation (Stage 9)						
A03970	Other BS + E&M Installation						
Test & Commission							
B03920	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
B03930	Submission & Issue of WW046 IV, V (Inside Services & FS)						
B03940	BEE0 Stage II & Accessor Certification Submission						
B03950	Bearm Plus Monthly Submission & Issue						
C03950	Form 2 Submission						
C03970	T&C for BS & Pumps						
040 Incident Control Tower							
A04050	Finishing (KD9)						
A04060	BS for Office Accommodation (Stage 8), & for TCSS works (KD 14)						
A04070	BS + E&M for Office Accommodation (Stage 9)						
Facade Cladding System							
B04020	Fabrication of F/C System						
B04030	Casted-in Items Installation						
B04040	Steel Frame Installation						
B04050	Cladding Panel Installation						
Glass Wall							
C04020	Fabrication of Glass Wall						
C04030	Casted-in Items Installation						
C04040	Steel Frame Installation						
Test & Commission							
D04030	T&C for BS & Pumps						
D04040	Form 2 Submission						
102 HKPF UVSS Monitor Room							
A10230	Finishing (False Ceiling) (KD9)						
A10240	BS for Office Accommodation (Stage 8)						
A10260	BS + E&M for Office Accommodation (Stage 9)						
A10270	Other BS + E&M Installation						
C10210	WWO 46 Part I, II, III Submission (Inside Service + FS)						
C10240	FSI Form 314 & 501 Submission						
Metal Canopy and Roof Installation							
B10212	Fabrication of MC/R						
B10220	Casted-in Items Installation						
B10230	Steel Frame Installation						
B10240	Glass panel, metal cladding panel installation						
103 Police Inspection Post							
A10350	Finishing (False Ceiling) (KD9)						

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VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

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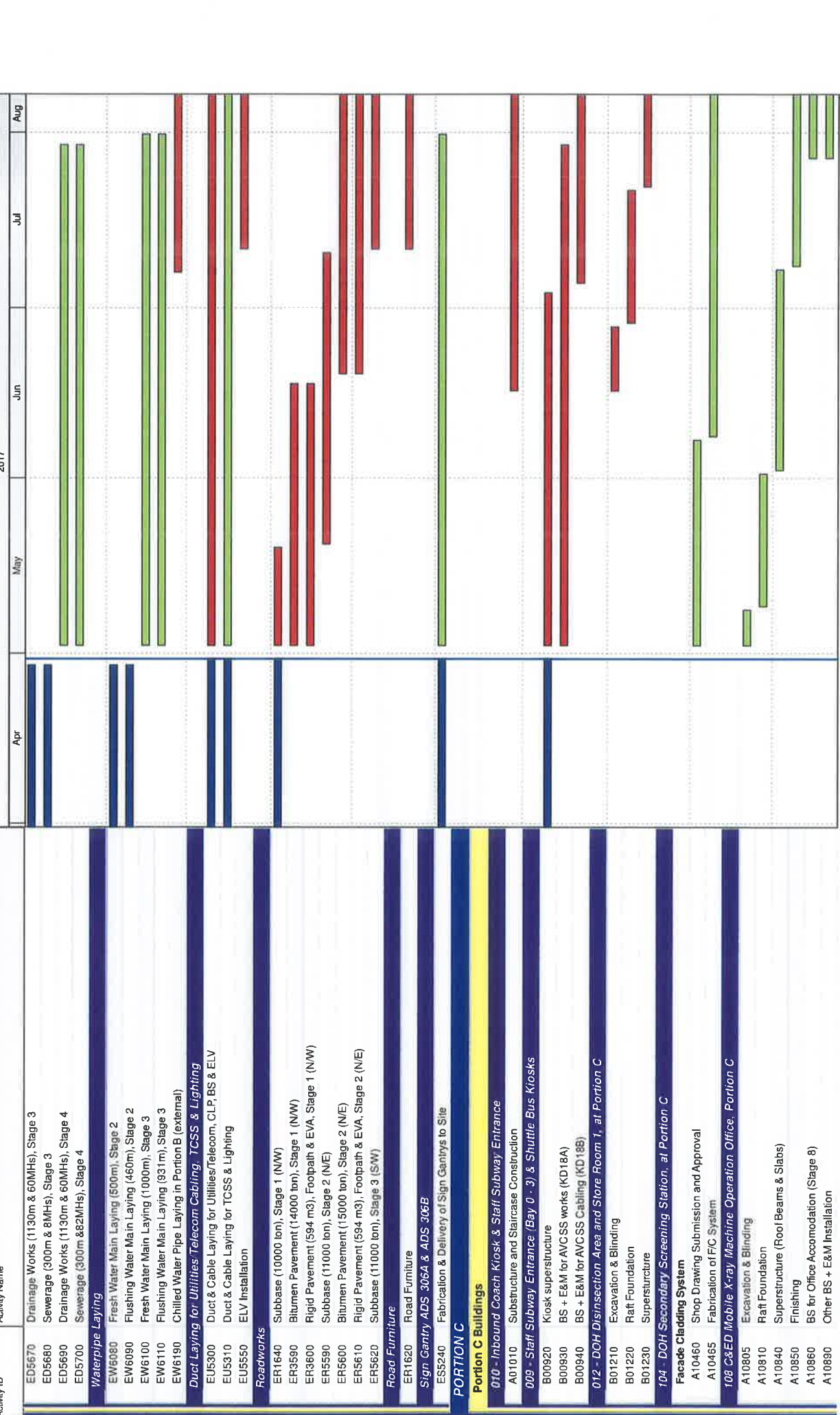
HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	2017				02-May-17
		Apr	May	Jun	Jul	
A10360	BS for Office Accommodation (Stage 8)					
A10370	BS + E&M for Office Accommodation (Stage 8)					
A10380	Other BS + E&M Installation					
C10320	WVO 46 Part I, II, III Submission (inside Service + FS)					
HPL Composite Panel Cladding System						
B10320	Fabrication of HPL Cladding					
B10330	Casied-in Items Installation					
B10340	Steel Frame Installation					
057 Transformers (Zone 2)						
A05740	Finishing					
A05755	Energisation by CLP					
A05760	BS for Office Accommodation (Stage 8)					
A05770	BS + E&M for Office Accommodation (Stage 8)					
A05780	Other BS + E&M Installation					
T&C and Statutory Inspection for Zone 2a & 2b						
G05700	T&C for BS & Pumps					
F05700	Essential T&C (FSI)					
F05710	Non-Essential T&C (Non-FSI)					
Completion of Fire Services Installation and Equipment (FCD)						
F05740	Provision of Approved Building Plans by the Engineer					
F05750	Application for FSI Inspection (FSI/501) c/w FSI Plan (FS/314)					
F05760	Provision of Direct Link for Fire Alarm System by Chubb					
F05770	FSI Inspection (2 Trials)					
DG License & EPD Generator Approval						
G05710	Approval Letter and approved Drawings					
G05730	DG Inspection					
107 - C&ED Mobile X-ray Operation Office (Cargo), Portion B						
C10740	Finishing					
C10750	BS for Office Accommodation (Stage 8)					
C10760	BS + E&M for Office Accommodation (Stage 8)					
C10770	Other BS + E&M Installation					
C10780	T&C for BS & Pumps					
113 - Field Kiosk for Access Control, Portion B						
B11330	Superstructure (Roof Beams & Slabs)					
B11340	Finishing					
B11350	BS for Office Accommodation (Stage 8)					
B11370	Other BS + E&M Installation					
B11380	T&C for BS & Pumps					
207 - Inbound Cargo Mobile X-ray Operation Area						
ER5740	Radiation Screen Wall Construction					
ER5850	Construction of the Area and Access to the Interface Contractor					
205 - Inbound Private Car Mobile X-ray Operation Area						
ER5750	Radiation Screen Wall Construction					
ER5860	Construction of the Area and Access to the Interface Contractor					
External Works for Portion B						
Works in Location 1.7A						
BB1480	ELV Works & T&C in Location 1.7A					
Works in Location 1.7B						
BB1490	ELV Works & T&C in Location 1.7B					
Drainage Works						

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VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES
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- █ Actual Work
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- ◆ Milestone



Activity ID	Activity Name	2017	2018	2019	2020	2021	2022
ED5670	Drainage Works (1130m & 60MHs), Stage 3	Apr 15 - Apr 25					
ED5680	Sewerage (300m & 8MHs), Stage 3	Apr 15 - Apr 25					
ED5690	Drainage Works (1130m & 60MHs), Stage 4	Apr 15 - Apr 25					
ED5700	Sewerage (300m & 82MHs), Stage 4	Apr 15 - Apr 25					
EW5080	Fresh Water Main Laying (500m), Stage 2	Apr 15 - Apr 25					
EW6090	Flushing Water Main Laying (460m), Stage 2	Apr 15 - Apr 25					
EW6100	Fresh Water Main Laying (1000m), Stage 3	Apr 15 - Apr 25					
EW6110	Flushing Water Main Laying (931m), Stage 3	Apr 15 - Apr 25					
EW6190	Chilled Water Pipe Laying in Portion B (external)	Apr 15 - Apr 25					
EU5300	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV	Apr 15 - Apr 25					
EU5310	Duct & Cable Laying for TCSS & Lighting	Apr 15 - Apr 25					
EU5550	ELV Installation	Apr 15 - Apr 25					
ER1640	Subbase (10000 ton), Stage 1 (NW)	Apr 15 - Apr 25					
ER3590	Bitumen Pavement (14000 ton), Stage 1 (NW)	Apr 15 - Apr 25					
ER3600	Rigid Pavement (594 m ³), Footpath & EVA, Stage 1 (NW)	Apr 15 - Apr 25					
ER5590	Subbase (11000 ton), Stage 2 (N/E)	Apr 15 - Apr 25					
ER5600	Bitumen Pavement (15000 ton), Stage 2 (N/E)	Apr 15 - Apr 25					
ER5610	Rigid Pavement (594 m ³), Footpath & EVA, Stage 2 (N/E)	Apr 15 - Apr 25					
ER5620	Subbase (11000 ton), Stage 3 (S/W)	Apr 15 - Apr 25					
ER1620	Road Furniture	Apr 15 - Apr 25					
ES5240	Fabrication & Delivery of Sign Gantrys to Site	Apr 15 - Apr 25					
PORTION C							
Portion C Buildings							
010 - Inbound Coach Kiosk & Staff Subway Entrance							
A01010	Substructure and Staircase Construction	Apr 15 - Apr 25					
009 - Staff Subway Entrance (Bay 0 - 3) & Shuttle Bus Kiosks							
B00920	Kiosk superstructure	Apr 15 - Apr 25					
B00930	BS + E&M for AVCSS works (KD18A)	Apr 15 - Apr 25					
B00940	BS + E&M for AVCSS Cabling (KD18B)	Apr 15 - Apr 25					
012 - DOH Disinsection Area and Store Room 1, at Portion C							
B01210	Excavation & Blinding	Apr 15 - Apr 25					
B01220	Raft Foundation	Apr 15 - Apr 25					
B01230	Superstructure	Apr 15 - Apr 25					
104 - DOH Secondary Screening Station, at Portion C							
Facade Cladding System							
A10460	Shop Drawing Submission and Approval	Apr 15 - Apr 25					
A10465	Fabrication of F/C System	Apr 15 - Apr 25					
108 C&ED Mobile X-ray Machine Operation Office, Portion C							
A10805	Excavation & Blinding	Apr 15 - Apr 25					
A10810	Raft Foundation	Apr 15 - Apr 25					
A10840	Superstructure (Roof Beams & Slabs)	Apr 15 - Apr 25					
A10850	Finishing	Apr 15 - Apr 25					
A10860	BS for Office Accommodation (Stage 8)	Apr 15 - Apr 25					
A10890	Other BS + E&M Installation	Apr 15 - Apr 25					

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THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES
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■ Actual Work
■ Remaining Work
■ Critical
◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	Apr	May	2017	Jun	Jul	Aug
HPL Composite Panel Cladding System							
A10800	Shop Drawing Submission and Approval						
A10815	Fabrication of HPL Cladding						
110 IMMID Guard Booth (Type 2) East							
A11020	Excavation & Blinding						
A11030	Substructure						
A11080	Finishing						
A11090	BS for Office Accommodation (Stage 8)						
B11020	Other BS + E&M Installation						
Facade Envelop Structure Installation							
A11040	Shop Drawing Submission and Approval						
A11045	Fabrication of FC System						
A11050	Casted-in Items Installation						
111 Field Kiosk for Carpark Operator							
A11120	Excavation & Blinding						
A11130	Raft Foundation						
A11140	Superstructure (Roof beams & Slabs)						
HPL Composite Panel Cladding System							
B11110	Shop Drawing Submission and Approval						
B11120	Fabrication of HPL Cladding						
B11130	Casted-in Items Installation						
113 - Field Kiosk for Access Control, Portion C							
C11310	Excavation & Blinding						
C11320	Raft Foundation						
C11330	Superstructure (Roof Beams & Slabs)						
204 - Inbound Coach Exam Area & Mobile X-ray Operation							
ER5760	Radiation Screen Wall Construction						
ER5880	Construction of the Area and Access to the Interface Contractor						
External Works for Portion C							
Works in Location 1.2, 1.8 & 011 - Emergency Generator Building							
BB1440	Works & T&C in Location 1.2						
BB1460	ELV System Installations and T&C for Contract HY2013/01						
BB1470	Provisioning of Civil Engineering Works for 011-Emergency Generator Building (KD18)						
Drainage Works							
B00040	Initial Survey						
SG2400	Drainage Works (400m & 18MHs), Stage 1 (Eastern)						
SG3610	Sewerage (90m & 2MHs), Stage 1 (Eastern)						
Waterpipe Laying							
SW2410	Fresh Water Main Laying (135m), Stage 1 (Eastern)						
SW2420	Flushing Water Main Laying (50m), Stage 1 (Eastern)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
SU5320	Duct & Cable Laying for Utilities/Telecom, OLP, BS & ELV						
PORTION D							
Portion D Building							
114 - Field Kiosk for Access Control, Portion D							
C11360	Raft Foundation						
C11370	Superstructure (Roof Beams & Slabs)						
C11380	Finishing						
D11340	BS for Office Accommodation (Stage 8)						

█ Actual Work
█ Remaining Work
█ Critical
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THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	2017				02-May-17
		Apr	May	Jun	Jul	
D11360	Other BS + E&M Installation					
External Works for Portion D						
Drainage Works						
SG3840	Drainage Works (361m & 14MHs)					
SG3760	Sewerage (121m & 6MHs)					
Waterpipe Laying						
SW3650	Fresh Water Main Laying (108m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
SU5340	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
SU5350	Duct & Cable Laying for TCSS & Lighting					
SU5640	Access date to Telephone Companies					
Roadworks						
SR3740	Subbase (261 ton)					
SR3770	Bitumen Pavement (619 ton)					
PORTION E						
006 - Shuttle Bus Kiosk & Staff Subway Entrance, at Portion E & M						
A00630	Constructing wall stem + top slab of Subway					
A00640	Backfilling					
A00650	Constructing Ground Slab					
A00660	Constructing Kiosk (4 Nr)					
A00670	Constructing Subway Entrance					
A00690	BS + E&M for AVCSS works (KD188)					
B00640	Other BS + E&M Installation					
External Works for Portion E						
Drainage Works						
SG3780	Drainage Works (99m & 5MHs)					
SG3900	Sewerage (38m & 1 MH)					
Waterpipe Laying						
SW3790	Fresh Water Main Laying (45m)					
SW3800	Flushing Water Main Laying (25m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
SU5360	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
SU5370	Duct & Cable Laying for TCSS & Lighting					
Roadworks						
SR3880	Subbase (1659 ton)					
PORTION F						
External Works for Portion F						
Drainage Works						
B00070	Initial Survey					
SG3930	Drainage Works (122m & 9MHs)					
SG4050	Sewerage (70m & 3MHs)					
Waterpipe Laying						
SW3940	Fresh Water Main Laying (205m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
SU5380	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
SU5390	Duct & Cable Laying for TCSS & Lighting					
PORTION G, H1 & H2						
Portion G Structures						

<p>THREE MONTH ROLLING PROGRAMME</p> <p>VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES</p> <p>Page 11 of 21</p>		<p>Date</p> <p>28-Feb-17 3MRP updated as of 28 Feb. 2017</p> <p>31-Mar-17 3MRP updated as of 31 Mar. 2017</p> <p>30-Apr-17 3MRP updated as of 30 Apr. 2017</p>	<p>Revision</p> <p>ZJ</p> <p>ZJ</p> <p>ZJ</p>	<p>Checked</p> <p>ZJ</p> <p>ZJ</p> <p>ZJ</p>	<p>Approved</p>
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	2017				02-May-17
		Apr	May	Jun	Jul	
Box Culvert C						
Box Culvert Structure						
SC0310	Box C - Branch Construction					
SC0320	Box C - Branch Backfilling					
SC0380	Box C - Construction of Main Body					
SC0390	Box C - Back filling					
Bridge A1						
Structure Deck						
SA1450	Falsework for Deck P101, P102					
SA1460	Deck on P101, P102 + Stressing					
SA1510	Deck on P105, A108 + Stressing					
SA1520	Parapet (42 pour), E&M works & installation of DS38 & DS39					
Bridge A2						
Structure Deck						
SA2450	Falsework for Deck P201 - P202					
SA2460	Deck on P201 & P202 + Stressing					
SA2470	Parapet (36 pour), E&M Works & installation of DS49					
Bridge A3						
Structure Deck						
SA3460	Deck on P303, P304a/P304b + Stressing					
SA3480	Deck on P304a, A305 + Stressing					
SA3510	Parapet (56 pour), E&M Works & installation of DS51					
Bridge A4						
Structure Deck						
SA4420	Deck on P502b, P401 + Stressing					
SA4440	Deck on P401, P402 + Stressing					
SA4460	Deck on P304b, P401, P402 + Stressing					
SA4470	Parapet (35 pour), E&M Works					
Bridge A5						
Structure Deck						
SA5480	Deck on P502a, P502b & P503 + Stressing					
SA5520	Deck on P506 & P507 + Stressing					
SA5540	Deck on A501 & P502a + Stressing					
SA5550	Falsework for Deck P507 - P508a, P508b					
SA5560	Deck on P507 & P508a, P508b + Stressing					
SA5580	Parapet (65 pour), E&M Works installation of ADS 304A					
Bridge A6						
Structure Deck						
SA6480	Deck on P604, P605 + Stressing					
SA6530	Deck on P606 & A607 + Stressing					
SA6540	Parapet (50 pour) & E&M Works					
Bridge A7a, A7b, A7c						
Structure Deck						
SA7790	Deck on P703, P704 (Bridge A7a) + Stressing					
SA7820	Deck on P702, P703 (Bridge A7 a) + Stressing					
SA7830	Falsework for Deck A701, P702					
SA7840	Deck on A701, P702 (Bridge A7a) + Stressing					
SA7940	Parapet for Bridge A7b (8 pour) & E&M Works					
SA7950	Parapet for Bridge A7c (38 pour) & E&M Works					
SA7960	Parapet for Bridge A7a (48 pour) & E&M Works					

Actual Work		Revision		Checked		Approved	
	Actual Work	28-Feb-17	3MRP updated as of 28 Feb. 2017	ZJ	ZJ		
	Remaining Work	31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	ZJ		
	Critical	30-Apr-17	3MRP updated as of 30 Apr. 2017	ZJ	ZJ		
	Milestone						

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

02-May-17

Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
SA7980	Bituminous Paving for A7c (400 ton)(KD25)					
SA7990	Bituminous Paving for A7a (400 ton) (KD25)					
Bridge A8						
Structure Deck						
SA8460	Deck on P803, A804 + Stressing					
SA8470	Parapet (26 Pour) & E&M works					
Retaining Walls W1-1, W3-1, W5-1 & W7-1						
Retaining Wall W1-1						
SW1110	Construction of Retaining Wall W1-1 (L-shape, 4 bays)					
SW1120	Retaining Wall W1-1 Backfilling					
Retaining Wall W3-1						
SW3150	Construction of Retaining Wall W3-1 (U-shape, 4 bays)					
SW3160	Backfilling W3-1					
Retaining Wall W5-1						
SW5010	Construction of Retaining Wall W5-1 (L-shape, 5 bays)					
Retaining Wall W7-1						
SW7110	Construction of Retaining Wall W7-1 (U-shape, 4 bays)					
Portion G Buildings						
002 - C&ED Observation Guard Booth No. 1, Portion H1						
C00220	Excavation + Blinding					
C00230	Raft Foundation					
C00240	Superstructure					
002 - C&ED Observation Guard Booth No. 2, Portion H1						
E00210	Excavation + Blinding					
E00220	Raft Foundation					
E00230	Superstructure					
003 Inbound Private Car Exam Building						
A00330	Finishing					
A00360	External Works					
A00370	BS for Office Accommodation (Stage 8)					
A00380	BS + E&M for Office Accommodation (Stage 9)					
A00390	Other BS + E&M Installation					
C00310	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
Glass Canopy Installation						
B00305	Fabrication of Glass Canopy					
B00360	Steel Frame Installation					
Aluminium Metal Canopy						
B00315	Fabrication of F/C System					
B00320	Casted-in Items Installation					
B00330	Steel Frame Installation					
B00340	Aluminium Cladding Installation					
004 Satellite RCP South						
A03450	Finishing					
A03460	BS for Office Accommodation (Stage 8)					
A03470	BS + E&M for Office Accommodation (Stage 9)					
A03480	Other BS + E&M Installation					
Test & Commission						
C03420	Submission & Issue of WW046 IV, V (Inside Services & FS)					
C03430	Form 314 & 501 submission					
C03440	T&C for BS & Pumps					

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◆ Form 314 & 501 submission

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Activity ID	Activity Name	Apr	May	2017 Jun	Jul	Aug	02-May-17
C03450	WSD Inspection						
C03460	FSD Inspection						
C03470	OP Application & TPIDC Inspection						
S S Facade Greenery System							
B03415	Fabrication of SS F/G System						
B03420	Casied-in Items Installation						
B03430	Steel Frame Installation						
035 - Sewage Pumping Station, Portion G							
A03590	Water-tightness Test for Wet Wells						
B03540	Constructing Basement Wall & G/F Slab						
B03550	Water-tightness Test for Inlet Chamber						
B03560	Superstructure works						
B03570	Backfilling						
B03580	BS for Office Accommodations (KD9)						
B03590	BS + E&M for Office Accommodation (KD10)						
C03510	Other BS + E & M Installation						
Test & Commission							
C03530	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
C03550	Form 314 & 501 submission						◆ Form 314 & 501 submission
051 Transformers (Zone 5)							
A05150	Finishing						
A05165	Energisation by CLP						
A05170	BS for Office Accommodations (KD9)						
A05180	BS + E&M for Office Accommodation (KD10)						
A05190	Other BS + E & M Installation						
T&C and Statutory Inspection for Zone 5							
C05120	T&C for BS & Pumps						
C05130	Essential T&C (FS)						
C05140	Non-Essential T&C (Non-FSI)						
100 Inbound Traffic Control Kiosk							
A10050	Finishing						
A10070	BS + E&M for AVG-SS Works (KD18A)						
B10060	BS + E&M for AVG-SS Cabling (KD18B)						
B10070	BS for Office Accommodations (KD9)						
B10090	Other BS + E & M Installation						
C10010	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
C10030	Form 314 & 501 submission						◆ Form 314 & 501 submission
C10040	T&C for BS & Pumps SWT						
HPL Composite Panel Cladding System							
B10015	Fabrication of FC System						
B10020	Casied-in Items Installation						
112 Field Kiosk for Taxi Queuing Area							
A11240	Finishing						
A11250	BS + E & M Installation						
A11260	T&C for BS & Pumps SWT						
External Works for Portion G, H1 & H2							
ELV Works within Portion H2 in the Hong Kong Side PTI							
EU1550	ELV Works within Portion H2 in the Hong Kong Side PTI (KD19)						
Works within Portion H1 & H2 except the ELV Works in the Hong Kong Side PTI							
EU1560	Drainage & Sewerage Works within Portion H1 & H2 in the Hong Kong Side PTI (KD20)						

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

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Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
All Works within the Boundary defined in Drawing No. 60191048/C3/000/C00/1050						
BEU1570	Drainage & Sewerage Works (incl. CLP) within the Boundary defined in Drawing No. 60191048/C3/000/1050					
BEU1580	Roadworks within the Boundary defined in Drawing No. 60191048/C3/000/1050, excluding Portion H1 & H2 & Bridges (KD24)					
Waterpipe Laying						
EW4080	Fresh Water Main Laying (1669m)					
EW4090	Flushing Water Main Laying (411m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5410	Duct & Cable Laying for TCSS & Lighting					
EU5560	ELV Installation					
Roadworks						
ER4170	Subbase (17045 ton)					
ER4200	Bitumen Pavement (24549 ton)					
ER4210	Rigid Pavement (514 m ³), Footpath & EVA					
Road Furniture						
ER4150	Road Furniture					
Sign Gantry DS40, DS41 & DS75						
ES0080	Testing for Pre-bored H Piling					
ES0180	Fabrication & Delivery of Sign Gantrys to Site					
Canopy and Covered Walkway						
CC1310	Shop drawing, Approved & Fabrication					
CC1320	Footing					
CC1330	Steel Frame Installation					
PORTION J						
Portion J Structure						
Bay 30 - 41 of CUE/Staff Subway (Portion J)						
B03260	Internal Finishes & Cable Containment (KD2)					
030 Outbound Private Car & GV Kiosks						
A03020	Pre-fabrication for the Steel Kiosks					
A03030	Superstructure (Incl. Entrance & Toilet)					
A03050	Finishing					
A03060	BS + E&M for AVCSS Works (KD18B)					
A03070	BS for Office Accommodations (KD9)					
A03090	Other BS + E & M Installation					
Portion J Buildings						
024 Outbound Private Car Exam Building						
A02420	Superstructure					
A02430	Finishing (KD9)					
A02440	BS for Office Accommodations (KD18F)					
A02450	BS + E&M for Office Accommodation (KD18G)					
A02460	Other BS + E & M Installation (KD31)					
Test & Commission						
D02410	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
Glass Canopy Installation						
B02415	Fabrication of F/C System					
B02420	Casied-in Items Installation					
B02430	Steel Frame Installation					
B02440	Glass Panel Installation					

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Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
Aluminium Metal Canopy						
B02455	Fabrication of FC System					
B02460	Casted-in Items Installation					
B02470	Steel Frame Installation					
B02480	Aluminium Cladding Installation (KD31)					
031 Outbound IMM and DOH Secondary Screen Building						
A03140	Superstructure					
A03150	Finishing (KD31)					
A03160	BS for Office Accommodations (KD18F)					
A03170	BS + E&M for Office Accommodation (KD18G)					
A03180	Other BS + E & M Installation (KD31)					
Test & Commission						
C03120	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
C03170	T&C for BS & Pumps					
060 - Single Storey Support Building Associated with Buildings 044 & 045						
A06025	Finishing					
A06050	Superstructure (other than transformer room) Construction					
A06055	Energisation by CLP					
A06060	BS for Office Accommodation (Stage 10) (KD11)					
A06080	Other BS + E&M Installation					
T&C and Statutory Inspection for Zone 3a						
B06020	BEE0 Stage II & Accessor Certification Submission					
B06030	T&C for BS & Pumps					
B06060	Essential T&C (FSI)					
B06070	Non-Essential T&C (Non-FSI)					
B06080	OP Application & TPIDC Inspection					
Waterworks Ordinance (WSD)						
G06020	Submission of WW046 - Part I & II (Inside Services)					
DG License & EPD Generator Approval						
G06000	DG Application					
061 Telecom Building						
A06150	Finishing (KD9)					
A06160	BS for Office Accommodations (KD9)					
A06170	BS + E&M for Office Accommodation (KD10)					
A06180	Other BS + E & M Installation					
Aluminium Metal Canopy						
B06115	Fabrication of Aluminium Cladding					
B06120	Casted-in Items Installation					
B06130	Steel Frame Installation					
B06140	Aluminium Cladding Installation					
101 Outbound Traffic Control Kiosk						
A10130	Superstructure (Roof Beams & Slabs)					
A10140	Finishing					
A10150	BS + E&M for AVCSS Works (KD18A)					
A10160	BS + E&M for AVCSS Cabling (KD18B)					
A10170	BS for Office Accommodations (KD9)					
A10180	BS + E&M for Office Accommodation (KD10)					
A10190	Other BS + E & M Installation					
C10110	Submission of WW046 - Part I & II (Inside Services)					
HPL Composite Panel Cladding System						

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

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Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
B10110	Shop Drawing Submission and Approval					
B10120	Fabrication of HPL Cladding					
B10130	Casted-in Items Installation					
205 - Outbound Private Car Mobile X-ray Operation Area						
ER5780	Radiation Screen Wall Construction					
ER5800	Construction of the Area and Access to the Interface Contractor					
External Works for Portion J						
Works in Location 1.7B						
EUI1500	ELV Works & T&C in Location 1.7B					
Works in Location 1.7C						
EUI1530	ELV Works & T&C in Location 1.7C					
Drainage Works						
ED4220	Drainage Works (1700m & 85MHs), Stage 1					
ED4340	Sewerage (425m & 11MHs), Stage 1					
ED5710	Drainage Works (1697m & 85MHs), Stage 2					
ED5720	Sewerage (425m & 12MHs), Stage 2					
Waterpipe Laying						
EW4230	Fresh Water Main Laying (1541m)					
EW4240	Flushing Water Main Laying (862m)					
SWG290	Chilled Water Pipe Laying in Portion C (external)					
Duct Laying for Utilities, Telecom Cabling, TCSS & Lighting						
EUS570	ELV Installation					
Roadworks						
ER4320	Subbase (15400 ton), Stage 1					
ER4350	Bitumen Pavement (20000 ton), Stage 1					
ER4360	Rigid Pavement (173 m3), Footpath & EVA, Stage 1					
Sign Gantry DS104						
ES0140	Sign Gantry DS104 P-bored Piling, 8 Nr.					
ES5130	Testing for P-bored Piles					
ES5150	Fabrication & Delivery of Sign Gantrys to Site					
PORTION K, L, M, S & T						
Portion K Building						
002 - C&ED Observation Guard Booth No. 1, Portion K						
A00210	Excavation + Blinding					
A00220	Raft Foundation					
A00230	Superstructure					
002 - C&ED Observation Guard Booth No. 2, Portion K						
B00210	Excavation + Blinding					
B00220	Raft Foundation					
B00230	Superstructure					
Portion M Buildings						
108 - C&ED Mobile X-ray Operation Office, Portion M						
B10600	Excavation + Blinding					
B10810	Substructure (raft Foundation)					
B10840	Superstructure (Roof beams & Slabs)					
B10850	Finishing					
B10860	BS for Office Accommodations (KD9)					
B10880	Other BS + E & M Installation					
HPL Composite Panel Cladding System						

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Activity ID	Activity Name	2017	2017	2017	2017	2017	2017	2017	2017
		Apr	May	Jun	Jul	Aug	02-May-17		
C10820	Fabrication of HPL Cladding								
C10830	Casted-in Items Installation								
104 DOH Screening Station, at Portion M									
C10400	Excavation + Blinding								
C10430	Structure (Rat Foundation)								
C10440	Finishing								
C10450	BS for Office Accommodations (KD9)								
C10470	Other BS + E + M Installation								
Facade Envelop Structure Installation									
D10450	Shop Drawing Submission and Approval								
D10455	Fabrication of FC System								
D10460	Casted-in Items Installation								
D10470	Steel Frame Installation								
203 - Outbound Coach Shuttle Bus Exam Area & Mobile X-ray Operation Area									
ER5770	Radiation Screen Wall Construction								
External Works									
Additional Works (Filling & RE Slope), SA1									
ED3230	C1 Contractor to Completed cooling mains at east Portion (Stage 2)								
ED3232	C2 provide permanent access to platform at Portion K								
ED3234	Removal of temp. access								
ED3310	C1 Contractor to Complete Footbridge Supports at the South Portion								
ED3320	Fill Platform from +1.5PD to near PCB (South)								
ED3330	Add surcharge to Platform at +1.45mPD near PCB (South)								
ED3340	Consolidation of fill at the Platform (South)								
ED3410	C2 Contractor to complete abutment at the North (2 nos.)								
ED3420	Fill Slope around C2 abutments								
Construction of Slopes									
ED3520	Construct RE slope (West)								
ED3540	Complete planter wall								
ED3550	Construction of fill slope (North)								
Drainage Works									
ED4370	Drainage Works (1477m & 81MHs), Stage 1 (Eastern)								
ED4490	Sewerage (78m & 2MHs), Stage 1 (Eastern)								
ED5730	Drainage Works (1477m & 80MHs), Stage 2 (Western)								
ED5740	Sewerage (78m & 3MHs), Stage 2 (Western)								
Waterpipe Laying									
EW4380	Fresh Water Main Laying (608m), Stage 1 (Eastern)								
EW4390	Flushing Water Main Laying (13m), Stage 1 (Eastern)								
Duct Laying for Utilities: Telecom Cabling, TCSS & Lighting									
EU5450	Duct & Cable Laying for TCSS & Lighting								
Roadworks									
ER4470	Subbase (4600 ton), Stage 1 (Eastern)								
ER4500	Bitumen Pavement (4500 ton), Stage 1 (Eastern)								
ER4510	Rigid Pavement (750 m3) & Footpath, Stage 1 (Eastern)								
Canopy and Covered Walkway									
CC1400	Shop drawing Approved & Fabrication								
CC1410	Footing								
PORTION N									
Portion N Structure									

◆ C1 Contractor to Completed cooling mains at east Portion (Stage 2)

◆ C2 provide permanent access to platform

◆ C1 Contractor to Complete Footbridge Supports at the South Portion

◆ C2 Contractor to complete abutment at the North (2 nos.)

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Activity ID	Activity Name	Apr	May	2017	Jun	Jul	Aug	02-May-17
Box Culvert B								
Bored Pile								
SB0590	Box B - Foundation: Revised as pre-bored H-Piles							
Box Culvert Structure								
SB0720	Box B - Construction (Stage 2)							
SB0722	Box B - Temporary Works for Construction of Outfall Structure							
SB0730	Box B - Outfall Structure							
SB0750	Box B - Backfilling							
Portion N Buildings								
104 DOH Screening Station, at Portion N								
C10405	Excavation + Blinding (+ PL Test)							
C10410	Structure (Rat Foundation)							
C10420	Finishing							
E10410	BS for Office Accommodations (KD9)							
E10430	Other BS + E & M Installation							
Facade Envelop Structure Installation								
D10410	Shop Drawing Submission and Approval							
D10415	Fabrication of F/C System							
D10420	Casted-in Items Installation							
105 C&ED Detention Area Guard Booth								
A10600	Excavation + Blinding							
A10610	Structure (Rat Foundation)							
A10640	Finishing							
E10640	BS for Office Accommodations (KD9)							
E10660	Other BS + E & M Installation							
Facade Envelop Structure Installation								
B10610	Shop Drawing Submission and Approval							
B10615	Fabrication of F/C System							
B10620	Casted-in Items Installation							
B10630	Steel Frame Installation							
107 C&ED Mobile X-ray Operation Office, Portion N								
A10700	Excavation + Blinding							
A10710	Substructure (Rat Foundation)							
A10740	Superstructure							
A10750	Finishing (KD9)							
A10760	Other BS + E & M Installation (KD10)							
HPL Composite Panel Cladding System								
B10710	Shop Drawing Submission and Approval							
B10720	Fabrication of HPL Composite Panel System							
B10730	Casted-in Items Installation							
B10740	Steel Frame Installation							
200 - Inbound/Outbound Vehicle Detection Area								
ERS810	Construction of the Area and Access to the Interface Contractor							
External Works for Portion N								
Works in Location 1.7A								
EU1540	ELV Works & T&C in Location 1.7A							
Drainage Works								
ED4620	Drainage Works (964m & 56MHs), Stage 1 (Southern)							
ED4650	Sewerage (383m & 12MHs), Stage 1 (Southern)							
ED5750	Drainage Works (963m & 55MHs), Stage 2 (Northern)							

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Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
ED5760	Sewerage (383m & 12MHs), Stage 2 (Northern)					
Waterpipe Laying						
EW4530	Fresh Water Main Laying (641m)					
EW4540	Flushing Water Main Laying (413m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5460	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5470	Duct & Cable Laying for TCSS & Lighting					
Roadworks						
ER4620	Subbase (6475 ton)					
ER4650	Bitumen Pavement (10144ton)					
ER4660	Rigid Pavement (183 m3), Footpath & EVA					
PORTION P						
Portion Structure						
Retaining Wall RW1						
RW1110	Construction of Retaining Wall RW1 (U-shape, 5 bays)					
Portion P Buildings						
105 IMM/D Guard Booth, Portion P						
A10510	Excavation + Blinding					
A10520	Substructure (Rat Foundation)					
A10530	On Grade Ground Slab					
A10540	Finishing					
E10500	BS for Office Accommodations (KD9)					
E10510	BS + E&M for Office Accommodation (KD10)					
E10520	Other BS + E & M Installation					
Facade Envelop Structure Installation						
A10560	Shop Drawing Submission and Approval					
A10565	Fabrication of F/C System					
A10570	Casted-in Items Installation					
A10580	Steel Frame Installation					
External Works for Portion P						
Drainage Works						
AS0160	Initial Survey					
ED4670	Drainage Works (2957m & 128MHs)					
ED4790	Sewerage (269m & 7MHs)					
Waterpipe Laying						
EW4680	Fresh Water Main Laying (1270m)					
EW4690	Flushing Water Main Laying (455m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5480	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
Roadworks						
ER4770	Subbase (16519 ton)					
ER4800	Bitumen Pavement (23958 ton)					
ER4810	Rigid Pavement (220 m3), Footpath & EVA					
PORTION Q						
External Works for Portion Q						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
ED5570	Duct & Cable Laying for Utilities/telecom, CLP, BS & ELV					
ED5580	Duct & Cable Laying for TCSS & Lighting					
EU1490	ELV System Installation for Contract HY/2013/04					

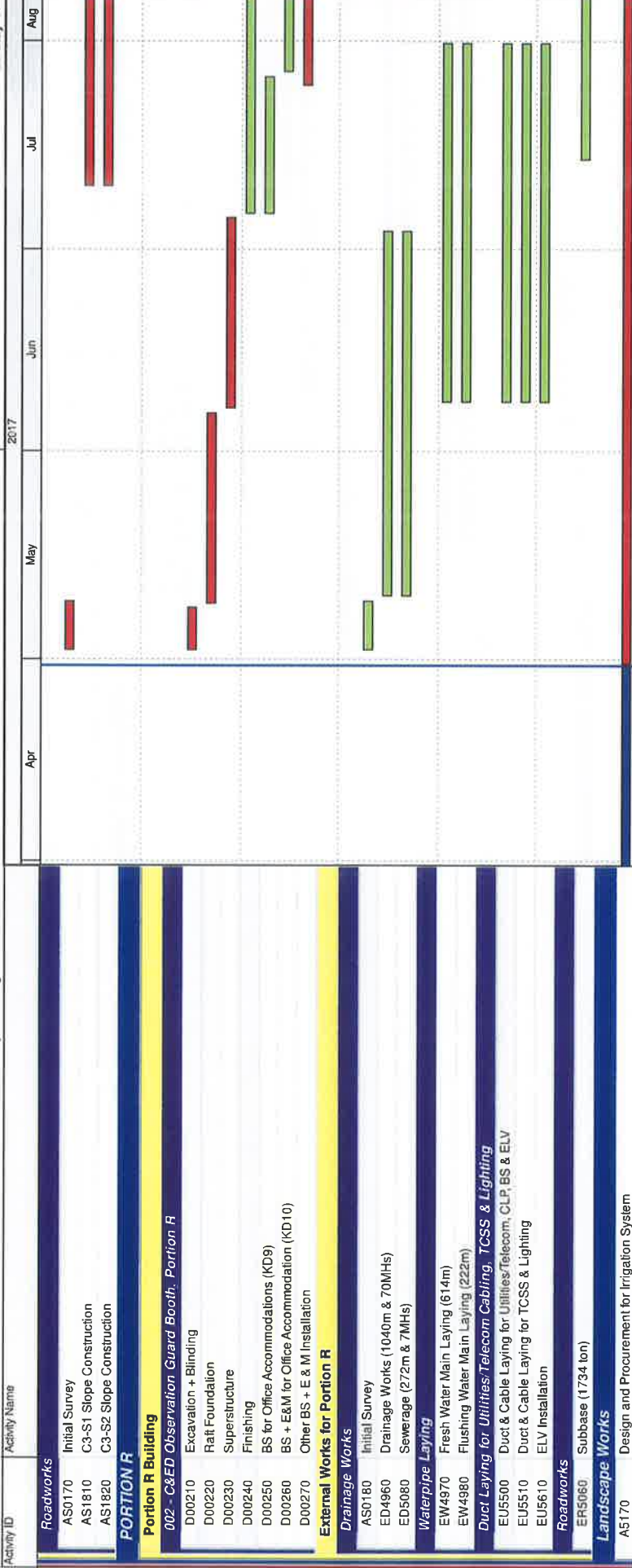
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity Name: **HKBCF - VCP & Ancillary Buildings and Facilities, DWP04 (+ DRMS 2), UD**

CONTRACT DATES

Key Dates

A1020	KD2 Achievement of Stage 2 of the Works (460 days; 12 Jul. 16)
A1160	KD16 Achievement of Stage 15 of the Works (548 days; 08 Oct. 16)
A1170	KD17 Achievement of Stage 16 of the Works (548 days; 08 Oct. 16)
A1180F	KD18F Achievement of Stage 23 of the Works (730 days; 08 Apr. 17)

Site Access & Possession

Possession of Portion of Site

A0040	Possession of Portion C (<=100 days)
A0070	Possession of Portion F (<=220 days)
A0170	Possession of Portion Q (<=500 days)
A0180	Possession of Portion R (<=610 days)

Access to Locations of the Site

A0230	Contract Date for Access to Location 1.3 (488 days)
A0240	Contract Date for Access to Location 1.4 (488 days)
A0280	Contract Date for Access to Location 1.7A (610 days)
A0290	Contract Date for Access to Location 1.7B (610 days)
A0300	Contract Date for Access to Location 1.7C (610 days)
A0330	Contract Date for Access to External Area for Contract HY/2013/01 for ELV System Installation (570 days)
A0340	Contract Date for Access to External Area for Contract HY/2013/02 for ELV System Installation (560 days)
A0350	Contract Date for Access to External Area for Contract HY/2013/04 ELV System Installation (560 days)

PORTION A1

Portion A1 Structures

Bridge A9

Structure Deck

SA9420	Deck on P904, P903 + Stressing
SA9440	Deck on P903 & P902 + Stressing
SA9450	Falsework for Deck P902 - A901
SA9460	Deck on P902 & A901 + Stressing
SA9470	Parapet (38 pour) & E&M Works

Retaining Wall W8-1

SW8120	Backfilling W8-1
SW8130	Parapet W8-1 (16 pour) & E&M Works
SW8140	RW8-1 Drainage system & Cable Laying

Retaining Wall W9-1

SW9120	Backfilling W9-1
SW9130	Parapet W9-1 (16 pour) & E&M Works
SW9140	Drainage System & Cable Laying

047 - Fresh Water Pumping Station, Portion A1 & A2

A04740	Water Tank Construction
A04750	Pump House Construction
A04752	Water-tightness Test for Water Tank
A04760	Parapet Wall at Roof Slab
A04770	BS installation + E&M (Degree 2)
A04780	BS installation + E&M (Degree 3)

Legend:

- Actual Work
- Remaining Work
- Critical
- Milestone

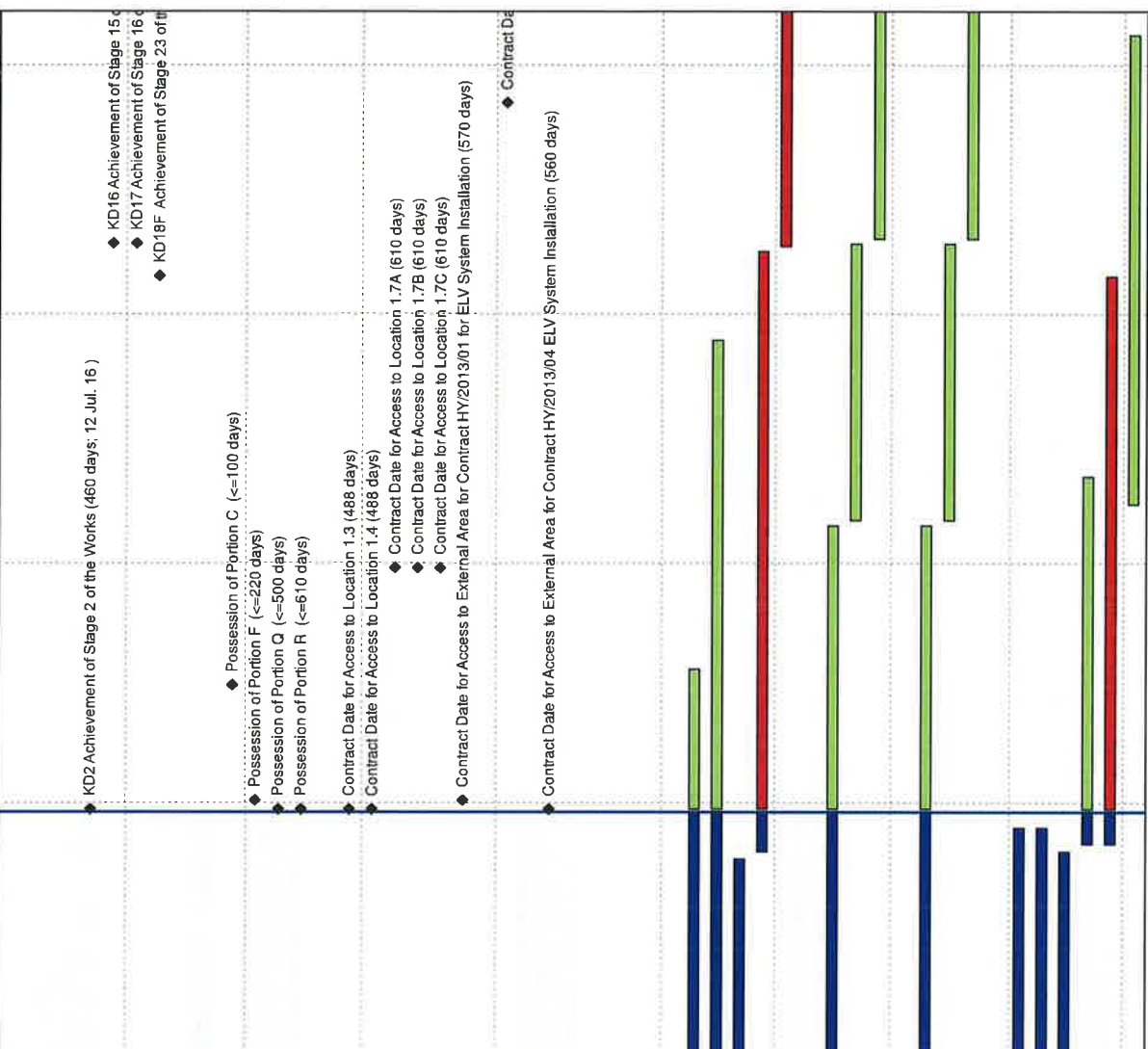
THREE MONTH ROLLING PROGRAMME

VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

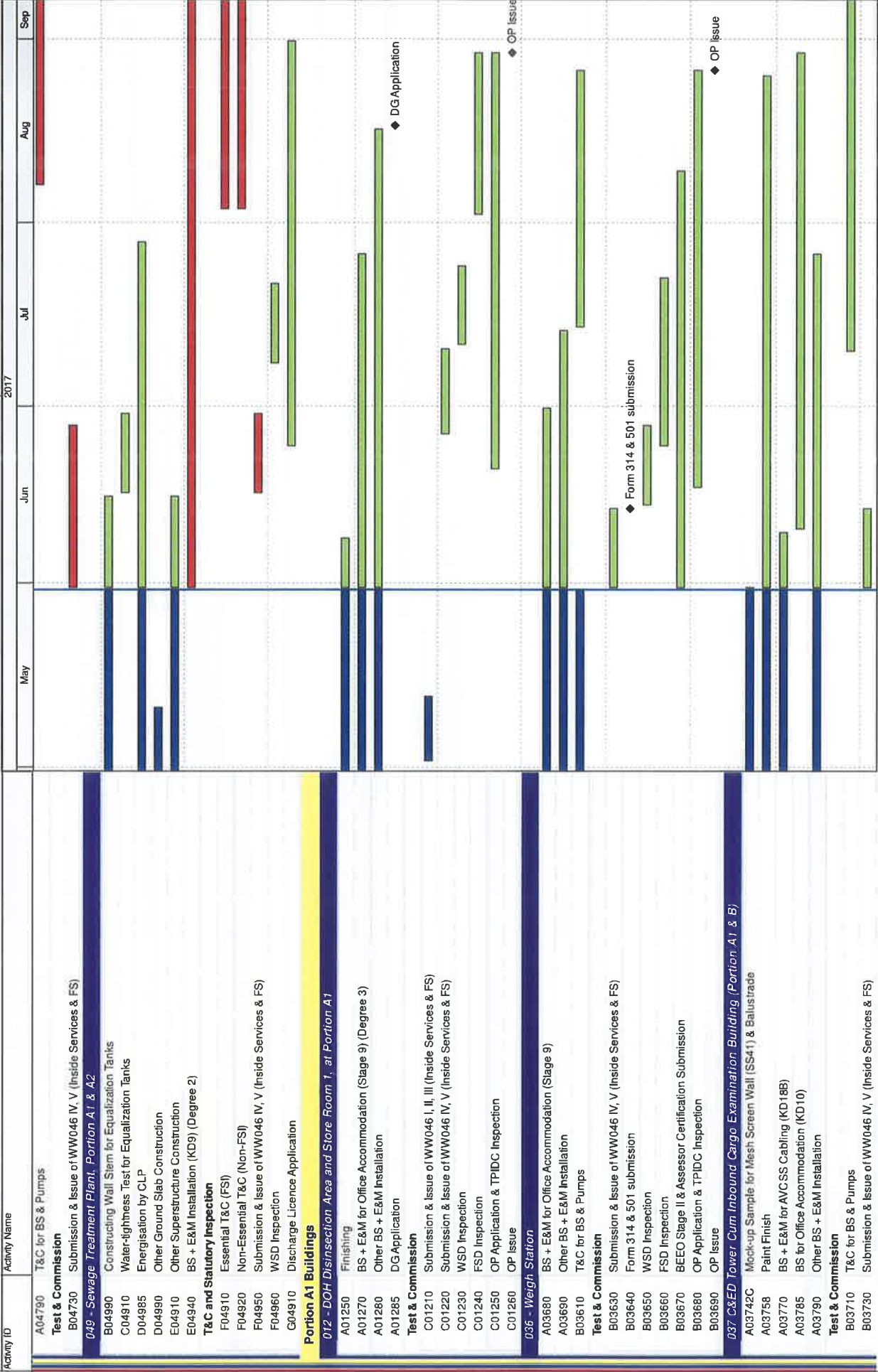
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Activity ID	Activity Name	2017	2018	2019
		May	Jun	Jul
		Aug	Sep	05-Jun-17



HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities



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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	May	Jun	Jul	Aug	Sep
B03740	Form LE5 Submission to EMSD					
B03750	Form 314 & 501 submission					
B03760	Lift Inspection by EMSD					
B03770	WSD Inspection					
B03780	FSD Inspection					
B03790	Beam Plus Monthly Submission & Issue					
C03710	BEEC Stage II & Assessor Certification Submission					
C03720	OP Application & TPIDC Inspection					
041 Fire Station Cum Ambulance Depot						
A04133	Wall Plastering/Wall Tiling					
A04134	Floor Screeding/Tiling/Vinyl Tiles					
A04137	False Ceiling Installation					
A04140	BS for Office Accommodation (Stage 8), Degree 2					
A04150	BS + E&M for Office Accommodation (Stage 9), Degree 3					
A04160	Other BS + E&M Installation					
A04170	External Finishing					
A04180	C/S Plastering/Tiling					
A04190	Cater Equipment Installation					
Fuel Filling Station incl. BS & E/M						
B04100	All Works for Fuel Filling Station					
Test & Commission						
B04110	T&C for BS & Pumps					
B04120	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
B04130	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B04140	Form 314 & 501 submission					
B04150	Form LE5 Submission to EMSD					
B04160	DG application					
B04170	WSD Inspection					
B04180	FSD Inspection					
C04130	Beam Plus Monthly Submission & Issue					
C04140	BEEC Stage II & Assessor Certification Submission					
042 Drill Tower						
A04260	Finishing					
A04280	BS + E&M for Office Accommodation (Stage 9)					
A04290	Other BS + E&M Installation					
Test & Commission						
B04210	BEEC Stage II & Assessor Certification Submission					
B04220	T&C for BS Pumps					
B04230	WSD Inspection					
B04240	FSD Inspection					
B04250	OP Application & TPIDC Inspection					
043 DOH Office + Store Room						
A04370	Cladding & Curtain Wall Installation (incl. steel & metal works)					
A04390	BS + E&M for Office Accommodation (Stage 9)					
B04310	Other BS + E&M Installation					
B04330	Stainless Steel Mesh Installation					
B04340	Metal Windows/Louvers/Doors/Railing etc. installation					
B04360	Wall Plastering/Tiling					
B04370	Floor Screeding/Tiling					
B04380	False Ceiling Installation & Painting					

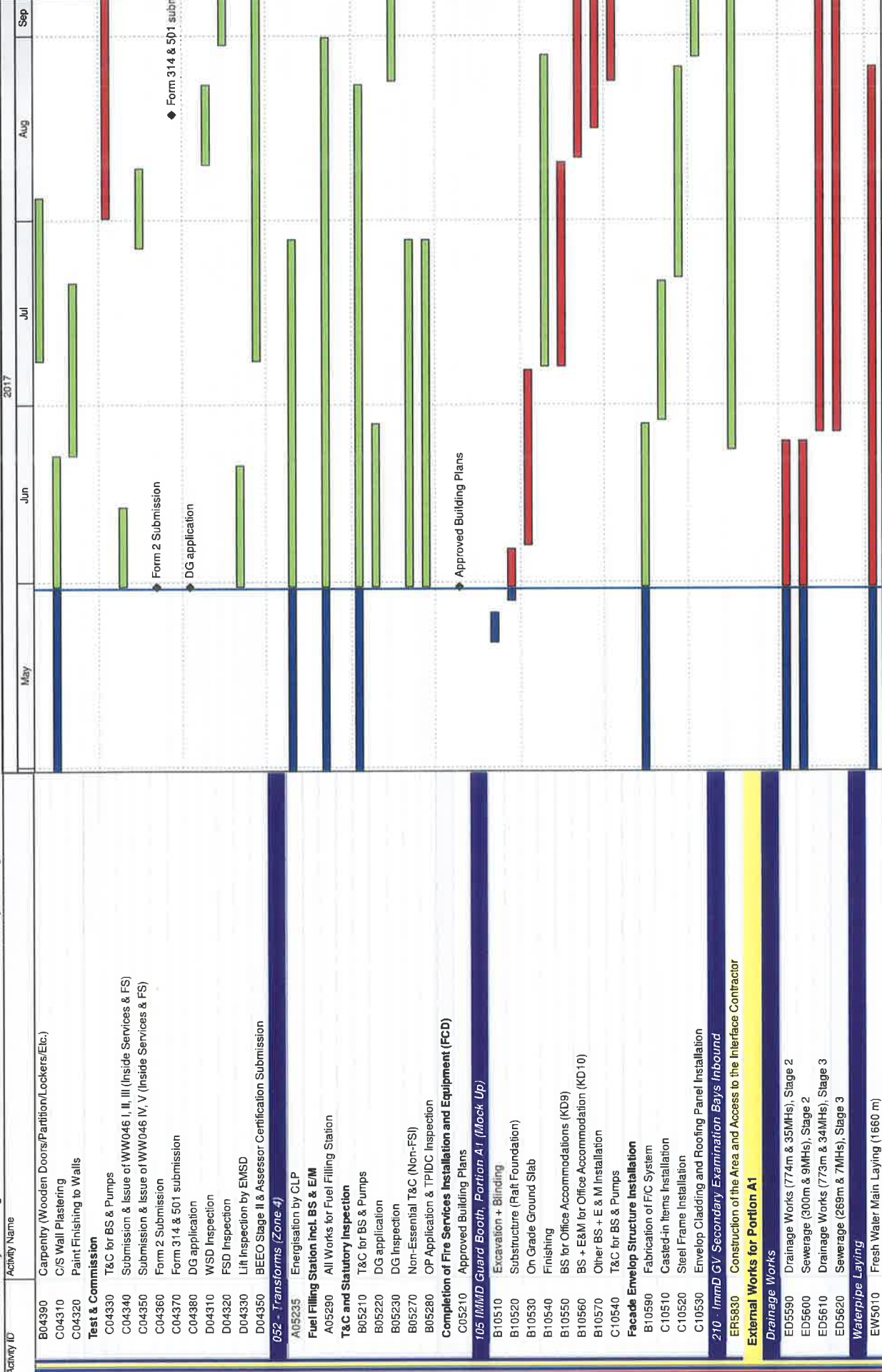
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VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

- Actual Work
- Remaining Work
- Critical
- ◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

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Activity ID	Activity Name	May	Jun	Jul	Aug	Sep
EW6010	Flushing Water Main Laying (967 m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5260	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5270	Duct & Cable Laying for TCSS & Lighting					
Roadworks						
ER1520	Subbase (8500 ton), Stage 1 (Western)					
ER3540	Bitumen Pavement (10000 ton), Stage 1 (Western)					
ER3550	Rigid Pavement (900 m ³), Footpath & EVA, Stage 1 (Western)					
ER5530	Subbase (8829 ton), Stage 2 (Eastern)					
Road Furniture						
ER0800	ELV Installation					
ER0830	Road Furniture					
PORTION A2						
PORTION A2 Structures						
045 - Refuse Collection Point, Portion A2						
A04620	Superstructure w/2 water tank					
A04630	BS for Office Accommodations (Stage 8) (KD9)					
A04640	BS + E&M for Office Accommodations (Stage 9) (KD10)					
A04660	Other BS + E&M Installation					
Test & Commission						
B04620	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
B04650	T&C for BS & Pumps					
B04680	OP Application & TPIDC Inspection					
048 - Reclaimed Water Pumping Station, Portion A2						
B04810	Superstructure Construction					
B04820	BS for Office Accommodations (Stage 8) (KD9)					
B04830	BS + E&M for Office Accommodation (Stage 9) (KD10)					
B04840	Other BS + E&M Installation					
Test & Commission						
B04850	T&C for BS & Pumps & SWT					
B04860	DG Application					
B04880	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
B04890	Submission & Issue of WW046 IV, V (Inside Services & FS)					
Retaining Wall W9-2						
SW9210	Construction of Retaining Wall W9-2 (U-shape, 6 bay)					
SW9220	Backfilling for Retaining Wall W9-2					
External Works for Portion A2						
Drainage Works						
ED2280	Drainage Works (228m & 15MHs)					
ED3560	Sewerage (322m & 9MHs)					
Waterpipe Laying						
EW2290	Fresh Water Main Laying (236m)					
EW2300	Flushing Water Main Laying (91m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5280	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5290	Duct & Cable Laying for TCSS & Lighting					
EU5620	Access date to Telephone Companies					
PORTION B						
Portion B Structures						

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Activity ID	Activity Name	2017				
		May	Jun	Jul	Aug	Sep
Retaining Wall W7-2						
S70890	Retaining Wall W7-2 Backfilling					
S70910	C3-S6 Slopeworks					
S70970	Retaining Wall W7-2 Parapet (2 pour) & E&M Works					
S70980	Retaining Wall W7-2 Drainage System & Cable Laying					
Retaining Wall W6-1						
S62060	Retaining Wall W6-1 Backfilling					
S62070	Retaining Wall W6-1 Parapet (8 pour) & E&M Works					
S62080	Retaining Wall W6-1 Drainage System & Cable Laying					
S62210	Retaining Wall W6-1 Bituminous Paving (347 ton) (KD25)					
Bay 25 - 29 of CUE/Staff Subway						
C02960	Internal Finishes & Cable Containment					
C02970	BS + E&M Installation for AVCSS					
Portion B Buildings						
027 028 Inbound Kiosks & 029 Outbound Kiosks						
A02720	Superstructure					
A02730	Construction of Subway Entrance					
A02740	Construction of Subway Toilets					
A02750	Finishing					
A02760	BS for Office Accommodation					
A02780	BS + E&M for AVCSS Works (KD18A)					
A02790	BS + E&M for AVCSS Cabling (KD18B)					
A02720	Other BS + E&M Installation					
Test & Commission						
B02810	T&C for BS & Pumps					
B02830	Submission & Issue of IWW046 IV, V (Inside Services & FS)					
027 028 Inbound Kiosks & 029 Outbound Kiosks, Section IX, Subject to Excision						
B02750	Superstructure					
B02760	BS + E&M for AVCSS Works (KD18C)					
B02770	BS + E&M for AVCSS Works (KD18D)					
B02780	BS + E&M for allowing users to move in furniture (KD18E)					
Test & Commission						
D02730	Submission & Issue of IWW046 IV, V (Inside Services & FS)					
026 Inbound (IMD) and DOH Secondary Screening Building						
A02640	Finishing					
A02670	BS for Office Accommodation (Stage 8)					
A02680	BS + E&M for Office Accommodation (Stage 9)					
A02690	Other BS + E&M Installation					
Test & Commission						
B02630	Submission & Issue of IWW046 IV, V (Inside Services & FS)					
B02650	TC for BS & Pumps					
054 Inbound Fixed X-ray Building						
A05460	Finishing					
A05467	Energisation by CLP					
A05480	BS + E&M for Office Accommodation (Stage 9)					
A05490	Other BS + E&M Installation					
Fuel Filling Station incl. BS & E/M						
B05490	All Works for Fuel Filling Station					
T&C and Statutory Inspection for Zone 4a						
B05400	BEE0 Stage II & Assessor Certification Submission					

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Activity ID	Activity Name	May	Jun	Jul	Aug	Sep
B05420	T&C for BS & Pumps					
B05460	DG Inspection					
Completion of Fire Services Installation and Equipment (FCD)						
F05450	Application for FSI Inspection (FSI501) c/w FSI Plan (FSI314)					
Waterworks Ordinance (WSD)						
G05410	Approval Letter and approved Drawings					
G05430	Submission of WW046 - Part IV (Inside Services)					
038 AFCD Office						
A03850	Finishing + Curtain Wall Installation					
A03870	BS for Office Accommodation (Stage 8)					
A03880	BS + E&M for Office Accommodation (Stage 9)					
A03890	Other BS + E&M Installation					
Test & Commission						
B03810	T&C for BS & Pumps					
B03830	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
B03880	Form 314 & 501 submission					
C03820	Form 2 Submission					
C03830	Lit Inspection by EMSD					
C03850	FSD Inspection					
C03860	BEE0 Stage II & Assessor Certification Submission					
039 Police Main Building						
A03940	Finishing + Curtain Wall Installation					
A03950	BS for Office Accommodation (Stage 8), & for TCSS works (KD14)					
A03960	BS + E&M for Office Accommodation (Stage 9)					
Fuel Filling Station incl. BS & E/M						
B03910	All Works for Fuel Filling Station					
Test & Commission						
B03920	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
B03930	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B03940	BEE0 Stage II & Assessor Certification Submission					
B03950	Beam Plus Monthly Submission & Issue					
C03920	DG Inspection					
C03950	Form 2 Submission					
C03970	T&C for BS & Pumps					
040 Incident Control Tower						
A04050	Finishing (KD9)					
A04060	BS for Office Accommodation (Stage 8), & for TCSS works (KD14)					
A04070	BS + E&M for Office Accommodation (Stage 9)					
Facade Cladding System						
B04040	Steel Frame Installation					
B04050	Cladding Panel Installation					
Glass Wall						
C04020	Fabrication of Glass Wall					
C04040	Steel Frame Installation					
Test & Commission						
D04010	Form 314 & 501 submission					
D04030	T&C for BS & Pumps					
D04040	Form 2 Submission					
D04050	Lit Inspection by EMSD					
102 HKPF UVSS Monitor Room						

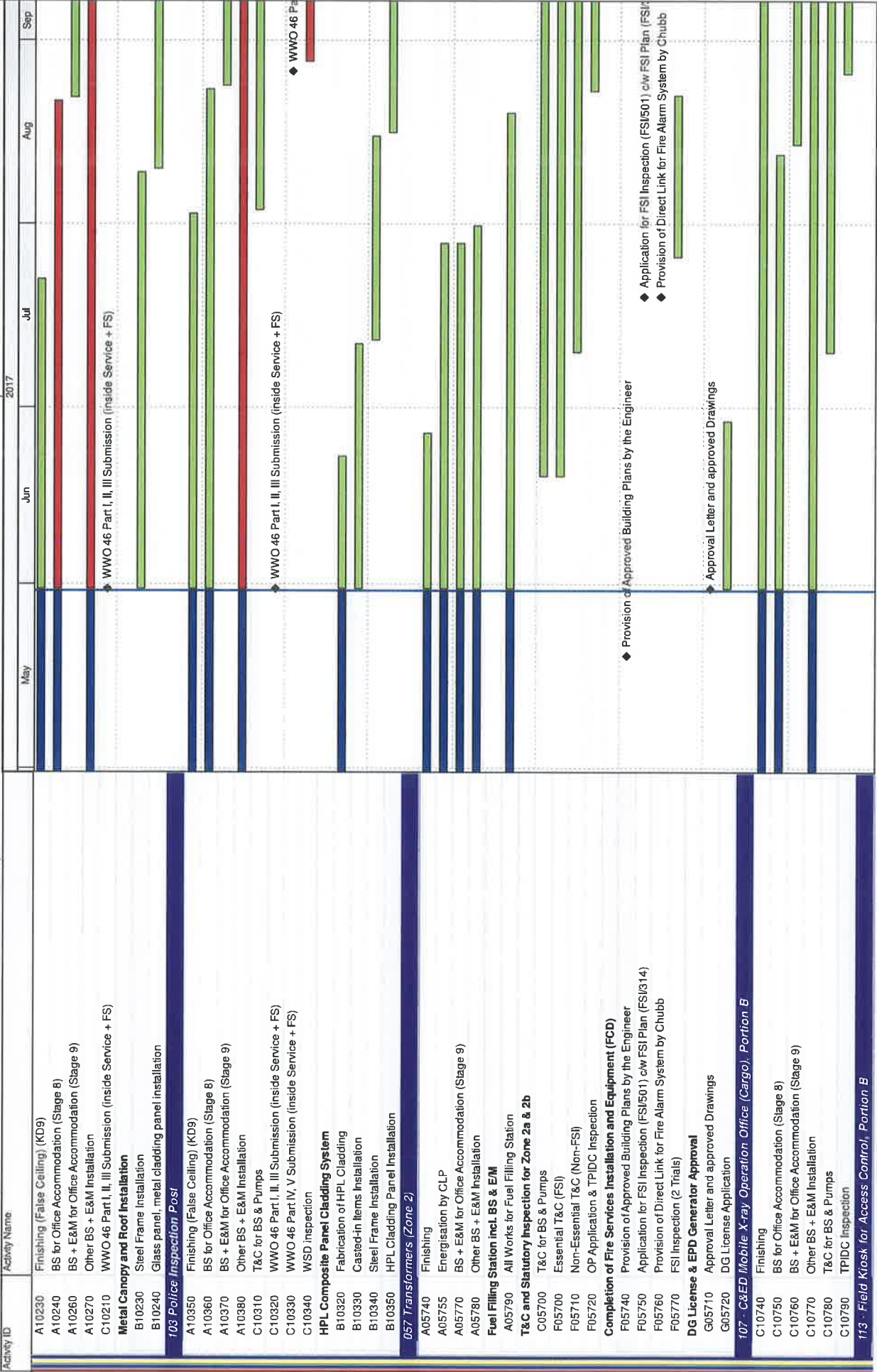
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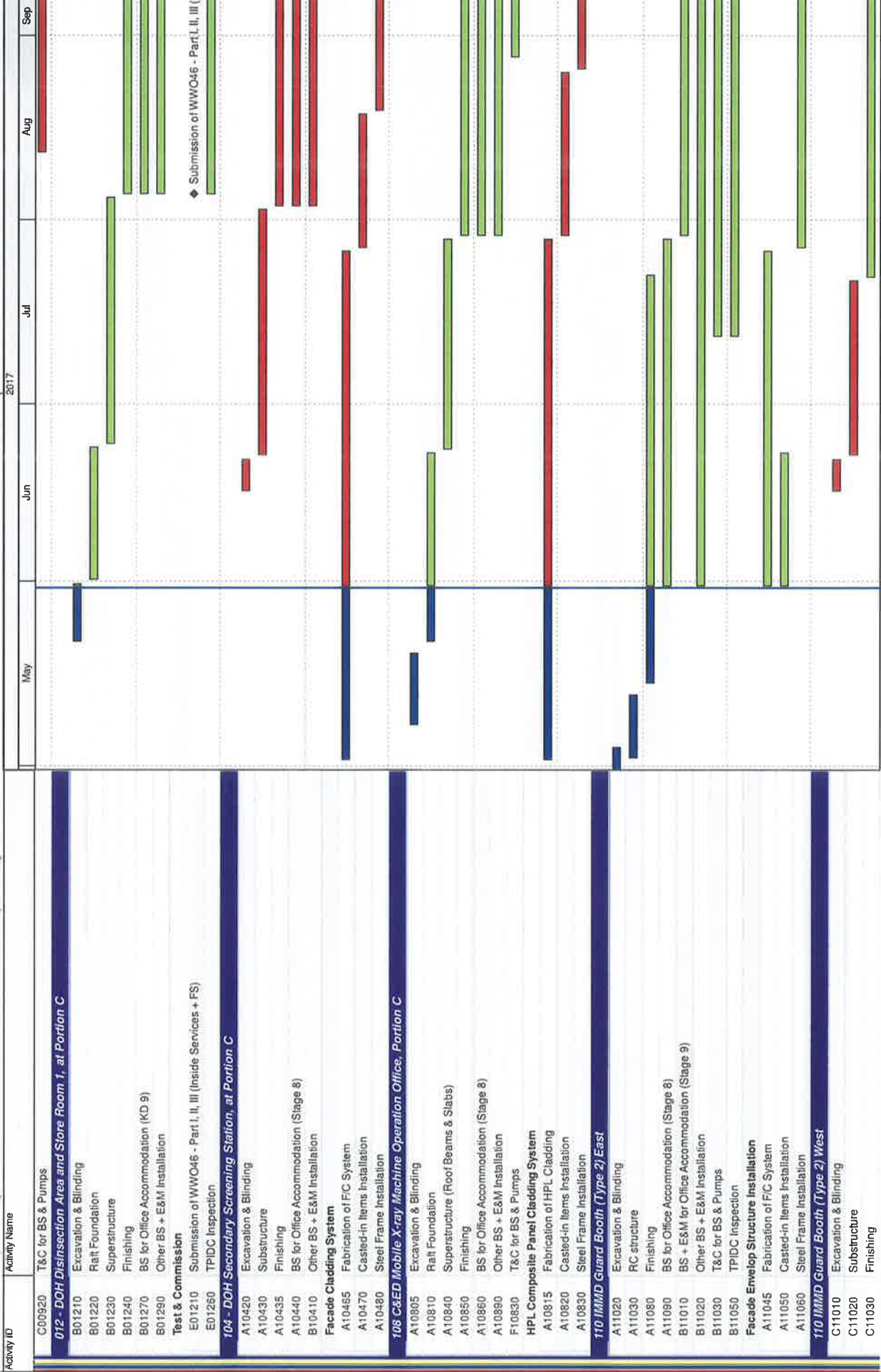
Activity ID	Activity Name	May	Jun	Jul	Aug	Sep
B11330	Superstructure (Roof Beams & Slabs)					
B11340	Finishing					
B11350	BS for Office Accommodation (Stage 8)					
B11360	BS + E&M for Office Accommodation (Stage 9)					
B11370	Other BS + E&M Installation					
B11380	T&C for BS & Pumps					
B11390	TPIDC Inspection					
201 - Inbound Cargo Mobile X-ray Operation Area						
ER5850	Construction of the Area and Access to the Interface Contractor					
205 - Inbound Private Car Mobile X-ray Operation Area						
ER5860	Construction of the Area and Access to the Interface Contractor					
External Works for Portion B						
Works in Location 1.7A						
BB1480	ELV Works & T&C in Location 1.7A					
Works in Location 1.7B						
BB1490	ELV Works & T&C in Location 1.7B					
Drainage Works						
ED5690	Drainage Works (1130m & 60MHs), Stage 4 (N/E)					
ED5700	Sewerage (300m & 82MHs), Stage 4 (N/E)					
Waterpipe Laying						
EW6100	Fresh Water Main Laying (1000m), Stage 3					
EW6110	Flushing Water Main Laying (931m), Stage 3					
EW6190	Chilled Water Pipe Laying in Portion B (external)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5300	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5310	Duct & Cable Laying for TCSS & Lighting					
EU5550	ELV Installation					
EU5630	Access data to Telephone Companies					
Roadworks						
ER1640	Subbase (21000 ton), Stage 1					
ER9590	Bitumen Pavement (30000 ton), Stage 1					
ER8600	Rigid Pavement (1188 m ³), Footpath & EVA, Stage 1					
ER5590	Subbase (22152 ton), Stage 2					
ER8600	Bitumen Pavement (31126 ton), Stage 2					
ER5610	Rigid Pavement (1188 m ³), Footpath & EVA, Stage 2					
Road Furniture						
ER1620	Road Furniture					
Sign Gantry ADS 306A & ADS 306B						
ES5240	Fabrication & Delivery of Sign Gantries to Site					
PORTION C						
Portion C Buildings						
010 - Inbound Coach Kiosk & Staff Subway Entrance (Subway Deleted)						
A01020	Base Slab & Kiosk superstructure					
A01030	BS + E&M for AVCSS works (KD18A)					
009 - Staff Subway Entrance (Bay 0 - 3) & Shuttle Bus Kiosks						
B00920	Kiosk superstructure					
B00930	BS + E&M for AVCSS works (KD18A)					
B00940	BS + E&M for AVCSS Cabling (KD18B)					
B00970	BS + E&M for Office Accommodation (Stage 9) (KD10)					

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Remaining Work	30-Apr-17	3MRP updated as of 30 Apr. 2017	ZJ	ZJ
Critical	31-May-17	3MRP updated as of 31 May 2017	ZJ	ZJ
Milestone				

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Activity ID	Activity Name	2017	May	Jun	Jul	Aug	Sep
C11040	BS for Office Accommodation						
C11060	Other BS + E&M Installation						
C11070	T&C for BS & Pumps						
Facade Envelop Structure Installation							
D11010	Casted-in Items Installation						
D11020	Steel Frame Installation						
111 Field Kiosk for Carpark Operator							
A11120	Excavation & Blinding						
A11130	Raft Foundation						
A11140	Superstructure (Roof beams & Slabs)						
A11150	Finishing						
A11160	BS for Office Accommodation (Stage 8)						
A11180	Other BS + E&M Installation						
HPL Composite Panel Cladding System							
B11120	Fabrication of HPL Cladding						
B11130	Casted-in Items Installation						
B11140	Steel Frame Installation						
113 - Field Kiosk for Access Control, Portion C							
C11310	Excavation & Blinding						
C11320	Raft Foundation						
C11330	Superstructure (Roof Beams & Slabs)						
F11310	T&C for BS & Pumps						
204 - Inbound Coach Exam Area & Mobile X-ray Operation							
ER5760	Radiation Screen Wall Construction						
ER5880	Construction of the Area and Access to the Interface Contractor						
External Works for Portion C							
Works in Location 1.2, 1.8 & 011 - Emergency Generator Building							
BB1440	Works & T&C in Location 1.2						
BB1450	Works & T&C in Location 1.8						
BB1460	ELV System Installations and T&C for Contract HY2013/01						
BB1470	Provisioning of Civil Engineering Works for 011-Emergency Generator Building (KD18)						
Drainage Works							
B00040	Initial Survey						
SG2400	Drainage Works (797m & 36MHs)						
SG3610	Sewerage (186m & 4MHs)						
Waterpipe Laying							
SW2410	Fresh Water Main Laying (272m)						
SW2420	Flushing Water Main Laying (105m)						
SW9280	Chilled Water Pipe Laying in Portion C (external)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
SU5320	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
SU5330	Duct & Cable Laying for TCSS & Lighting						
SU5400	ELV Installation						
Roadworks							
SR2500	Subbase (4201 ton)						
Road Furniture							
SR2480	Road Furniture						
PORTION D							
Portion D Building							

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Activity ID	Activity Name	2017	May	Jun	Jul	Aug	Sep
114 - Field Kiosk for Access Control, Portion D							
C11360	Raft Foundation						
C11370	Superstructure (Roof Beams & Slabs)						
C11380	Finishing						
D11340	BS for Office Accommodation (Stage 8)						
D11350	BS + E&M for Office Accommodation (Stage 9)						
D11360	Other BS + E&M Installation						
F11350	T&C for BS & Pumps						
External Works for Portion D							
Drainage Works							
SG3640	Drainage Works (361m & 14MHs)						
SG3760	Sewerage (121m & 6MHs)						
Waterpipe Laying							
SW3650	Fresh Water Main Laying (108m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
B11480	ELV System Installation for Contract HY2013/02						
SU5350	Duct & Cable Laying for TCSS & Lighting						
SU5640	Access date to Telephone Companies						
Roadworks							
SR3740	Subbase (261 ton)						
SR3770	Bitumen Pavement (619 ton)						
PORTION E							
006 - Shuttle Bus Kiosk & Staff Subway Entrance, at Portion E & M							
A00630	Constructing wall stem + top slab of Subway						
A00640	Backfilling & Surcharge						
A00650	Constructing Ground Slab						
A00660	Constructing Kiosk (4 Nr.)						
A00670	Constructing Subway Entrance						
External Works for Portion E							
Drainage Works							
SG3780	Drainage Works (99m & 5MHs)						
SG3900	Sewerage (38m & 1 MH)						
Waterpipe Laying							
SW3790	Fresh Water Main Laying (45m)						
SW3800	Flushing Water Main Laying (25m)						
Roadworks							
SR3880	Subbase (1659 ton)						
SR3910	Bitumen Pavement (2105 ton)						
SR3920	Rigid Pavement (180 m3)						
PORTION F							
External Works for Portion F							
Drainage Works							
B00070	Initial Survey						
SG3930	Drainage Works (122m & 9MHs)						
SG4050	Sewerage (70m & 3MHs)						
Waterpipe Laying							
SW3940	Fresh Water Main Laying (205m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
SU5380	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						

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Actual Work
 Remaining Work
 Critical
 Milestone

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2017 05-Jun-17

Activity ID	Activity Name	May	Jun	Jul	Aug	Sep
SU5390	Duct & Cable Laying for TCSS & Lighting					
SU5420	ELV Installation					
Roadworks						
SR4030	Subbase (1534 ton)					
SR4060	Bitumen Pavement (1909 ton)					
PORTION G, H1 & H2						
Portion G Structures						
Box Culvert Structure						
SC0310	Box C - Branch Construction					
SC0320	Box C - Branch Backfilling					
SC0380	Box C - Construction of Main Body					
SC0390	Box C - Back filling					
Bridge A1						
Structure Deck						
SA1460	Deck on P101, P102 + Stressing					
SA1520	Parapet (42 pour), E&M works & installation of DS38 & DS39					
Bridge A2						
Structure Deck						
SA2460	Deck on P201 & P202 + Stressing					
Bridge A3						
Structure Deck						
SA3510	Parapet (56 pour), E&M Works & installation of DS51					
Bridge A4						
Structure Deck						
SA4420	Deck on P502b, P401 + Stressing					
SA4440	Deck on P401, P402 + Stressing					
SA4460	Deck on P304b, P401, P402 + Stressing					
SA4470	Parapet (35 pour), E&M Works					
Bridge A5						
Structure Deck						
SA5480	Deck on P502a, P502b & P503 + Stressing					
SA5540	Deck on A501 & P502a + Stressing					
SA5550	Falsework for Deck P507 - P508a, P508b					
SA5560	Deck on P507 & P508a, P508b + Stressing					
SA5570	MJ Installation (KD16 & KD17)					
SA5580	Parapet (65 pour), E&M Works installation of ADS 30.4A					
Bridge A6						
Structure Deck						
SA6540	Parapet (50 pour) & E&M Works					
Bridge A7a, A7b, A7c						
Structure Deck						
SA7840	Deck on A701, P702 (Bridge A7a) + Stressing					
SA7940	Parapet for Bridge A7b (8 pour) & E&M Works					
SA7950	Parapet for Bridge A7c (38 pour) & E&M Works					
SA7960	Parapet for Bridge A7a (48 pour) & E&M Works					
SA7980	Bituminous Paving for A7c (400 ton)(KD25)					
SA7990	Bituminous Paving for A7a (400 ton) (KD25)					
Bridge A8						

Actual Work	Remaining Work	Critical	Milestone
█	█	█	◆

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Activity ID	Activity Name	2017	May	Jun	Jul	Aug	Sep
Structure Deck							
SA8470	Parapet (25 Pour) & E&M works						
Retaining Walls W1-1, W3-1, W5-1 & W7-1							
Retaining Wall W1-1							
SW1110	Construction of Retaining Wall W1-1 (L-shape, 4 bays)						
SW1120	Retaining Wall W1-1 Backfilling						
SW1122	Slope C3-S3 Construction						
Retaining Wall W3-1							
SW3150	Construction of Retaining Wall W3-1 (U-shape, 4 bays)						
SW3160	Backfilling W3-1						
SW3165	Slope C3-S4 Construction						
Retaining Wall W5-1							
SW5010	Construction of Retaining Wall W5-1 (L-shape, 5 bays)						
Retaining Wall W7-1							
SW7110	Construction of Retaining Wall W7-1 (U-shape, 4 bays)						
Portion G Buildings							
002 - C&ED Observation Guard Booth No. 1, Portion H1							
C00220	Excavation + Blinding						
C00230	Raft Foundation						
C00240	Superstructure						
002 - C&ED Observation Guard Booth No. 2, Portion H1							
E00210	Excavation + Blinding						
E00220	Raft Foundation						
E00230	Superstructure						
033 Inbound Private Car Exam Building							
A03330	Finishing						
A03360	External Works						
A03370	BS for Office Accommodation (Stage 8)						
A03380	BS + E&M for Office Accommodation (Stage 9)						
A03390	Other BS + E&M Installation						
C03310	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
C03330	BEEC Stage II & Assessor Certification Submission						
C03350	T&C for BS & Pumps						
C03390	OP Application & TPIDC Inspection						
Glass Canopy Installation							
B03305	Fabrication of Glass Canopy						
B03350	Steel Frame Installation						
B03370	Glass Panel Installation						
Aluminium Metal Canopy							
B03330	Steel Frame Installation						
B03340	Aluminium Cladding Installation						
034 Satellite RCP South							
A03450	Finishing						
A03470	BS + E&M for Office Accommodation (Stage 9)						
A03480	Other BS + E&M Installation						
Test & Commission							
C03420	Submission & Issue of WW046 IV, V (Inside Services & FS)						
C03430	Form 314 & 501 submission						
C03440	T&C for BS & Pumps						
C03450	WSD Inspection						

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Actual Work
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Activity ID	Activity Name	May	Jun	Jul	Aug	Sep
C03460	FSD Inspection					
C03470	OP Application & TPIDC Inspection					
S S Facade Greenery System						
B03415	Fabrication of SS P/G System					
B03430	Steel Frame Installation					
035 - Sewage Pumping Station, Portion G						
A03590	Water-tightness Test for Wet Wells					
B03550	Water-tightness Test for Inlet Chamber					
B03560	Superstructure works					
B03570	Backfilling					
B03580	BS for Office Accommodations (KD9)					
B03590	BS + E&M for Office Accommodation (KD10)					
C03510	Other BS + E & M Installation					
Test & Commission						
C03530	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
C03550	Form 314 & 501 submission					
C03560	T&C for BS & Pumps SWT					
C03590	OP Application & TPIDC Inspection					
051 Transformers (Zone 5)						
A05150	Finishing					
A05165	Energisation by CLP					
A05180	BS + E&M for Office Accommodation (KD10)					
A05190	Other BS + E & M Installation					
T&C and Statutory Inspection for Zone 5						
C05120	T&C for BS & Pumps					
C05130	Essential T&C (FSI)					
C05140	Non-Essential T&C (Non-FSI)					
100 Inbound Traffic Control Kiosk						
A10050	Finishing					
A10070	BS + E&M for AVCSS Works (KD18A)					
B10060	BS + E&M for AVCSS Cabling (KD18B)					
B10070	BS for Office Accommodations (KD9)					
B10090	Other BS + E & M Installation					
C10010	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
C10030	Form 314 & 501 submission					
C10040	T&C for BS & Pumps SWT					
HPL Composite Panel Cladding System						
B10015	Fabrication of F/C System					
B10020	Casted-in Items Installation					
B10030	Steel Frame Installation					
H2 Field Kiosk for Taxi Queuing Area						
A11240	Finishing					
A11250	BS + E & M Installation					
A11260	T&C for BS & Pumps SWT					
External Works for Portion G, H1 & H2						
ELV Works within Portion H2 in the Hong Kong Side PTI						
EU1550	ELV Works within Portion H2 in the Hong Kong Side PTI (KD19)					
Works within Portion H1 & H2 except the ELV Works in the Hong Kong Side PTI						
EU1560	Drainage & Sewerage Works within Portion H1 & H2 in the Hong Kong Side PTI (KD20)					
All Works within the Boundary defined in Drawing No. 60191048 C3/000/C001/050						

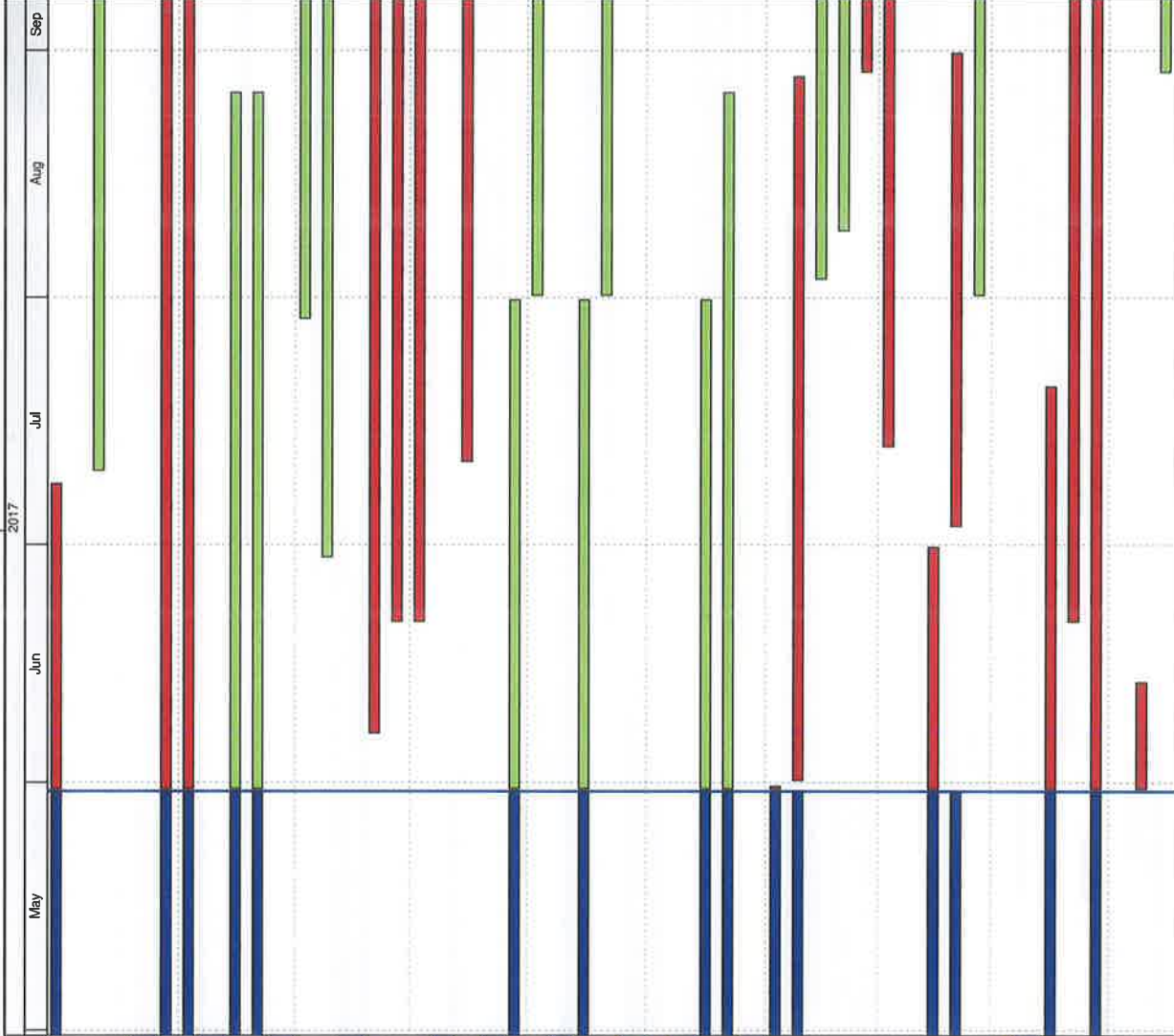
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VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

- █ Actual Work
- █ Remaining Work
- █ Critical
- ◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

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Activity ID	Activity Name	2017					05-Jun-17
		May	Jun	Jul	Aug	Sep	
Glass Canopy Installation							
B02415	Fabrication of FC System						
B02430	Steel Frame Installation						
B02440	Glass Panel Installation						
Aluminium Metal Canopy							
B02455	Fabrication of FC System						
B02470	Steel Frame Installation						
B02480	Aluminium Cladding Installation (KD31)						
031 Outbound MMD and DOH Secondary Screen Building							
A03160	BS for Office Accommodations (KD18F)						
A03170	BS + E&M for Office Accommodation (KD18G)						
A03180	Other BS + E & M Installation (KD31)						
Test & Commission							
C03120	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
C03170	T&C for BS & Pumps						
060 - Single Storey Support Building Associated with Buildings 044 & 045							
A06025	Finishing						
A06055	Energisation by CLP						
A06060	BS for Office Accommodation (Stage 10) (KD11)						
A06080	Other BS + E&M Installation						
Fuel Filling Station incl. BS & E/M							
A06090	All Works for Fuel Filling Station						
T&C and Statutory Inspection for Zone 3a							
B06020	BEE0 Stage II & Assessor Certification Submission						
B06030	T&C for BS & Pumps						
B06060	Essential T&C (FSI)						
B06070	Non-Essential T&C (Non-FSI)						
B06080	OP Application & TPIDC Inspection						
Completion of Fire Services Installation and Equipment (FCD)							
F06050	Application for FSI Inspection (FSI/501) c/w FSI Plan (FSI/314)						
Waterworks Ordinance (WSD)							
G06020	Submission of WW046 - Part I & II (Inside Services)						
DG License & EPD Generator Approval							
G06000	DG Application						
061 Telecom Building							
A06150	Finishing (KD9)						
A06160	BS for Office Accommodations (KD9)						
A06170	BS + E&M for Office Accommodation (KD10)						
A06180	Other BS + E & M Installation						
A06190	T&C for BS						
Aluminium Metal Canopy							
B06130	Steel Frame Installation						
B06140	Aluminium Cladding Installation						
101 Outbound Traffic Control Kiosk							
A10140	Finishing						
A10150	BS + E&M for AVCSS Works (KD18A)						
A10160	BS + E&M for AVCSS Cabling (KD18B)						
A10170	BS for Office Accommodations (KD9)						
A10180	BS + E&M for Office Accommodation (KD10)						
A10190	Other BS + E & M Installation						

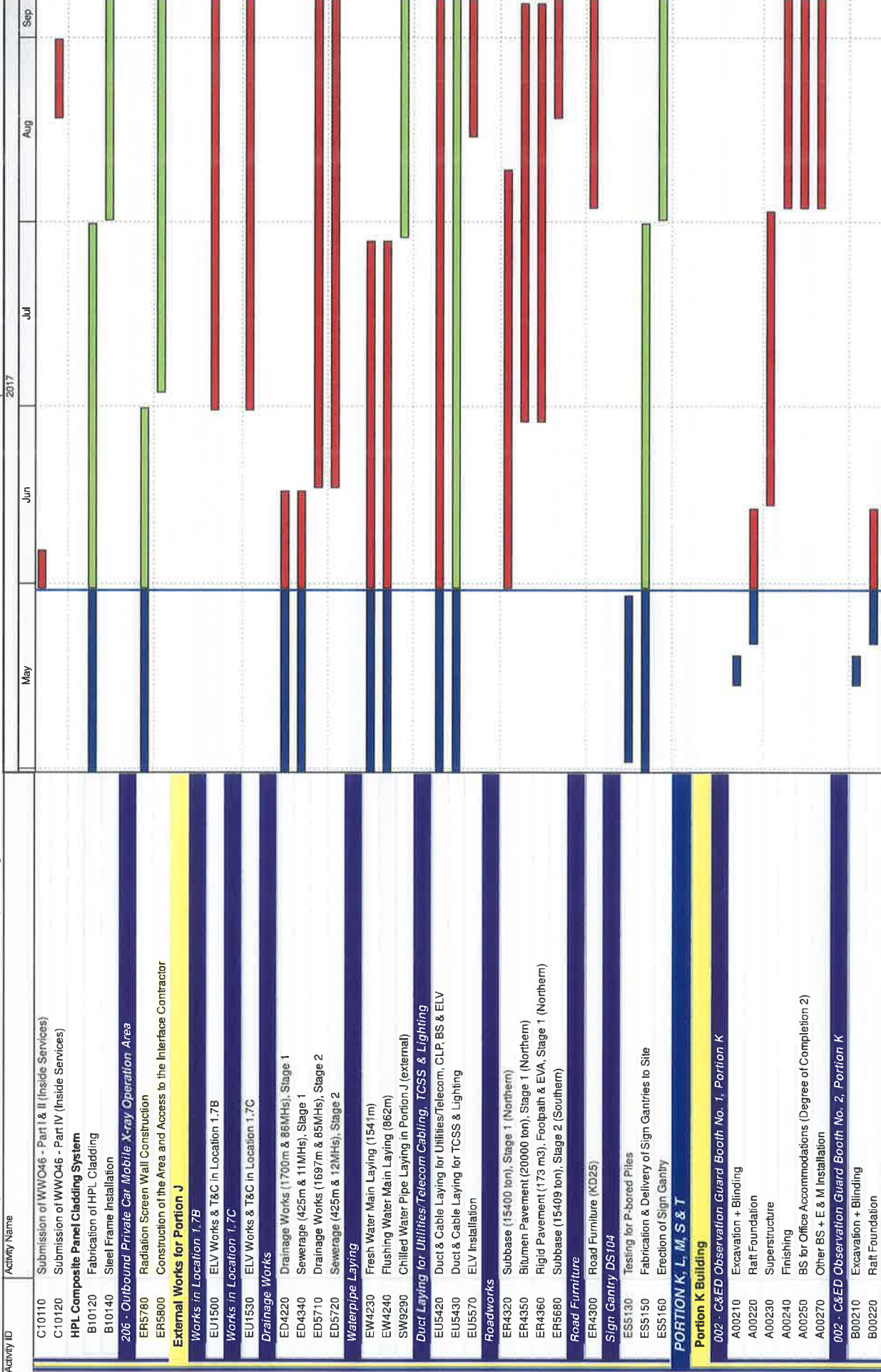
◆ Application for FSI Insp

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Actual Work	Remaining Work	31-Mar-17	31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	ZJ	ZJ	ZJ	ZJ
Critical	Milestone	30-Apr-17	30-Apr-17	3MRP updated as of 30 Apr. 2017	ZJ	ZJ	ZJ	ZJ	ZJ
		31-May-17	31-May-17	3MRP updated as of 31 May 2017	ZJ	ZJ	ZJ	ZJ	ZJ

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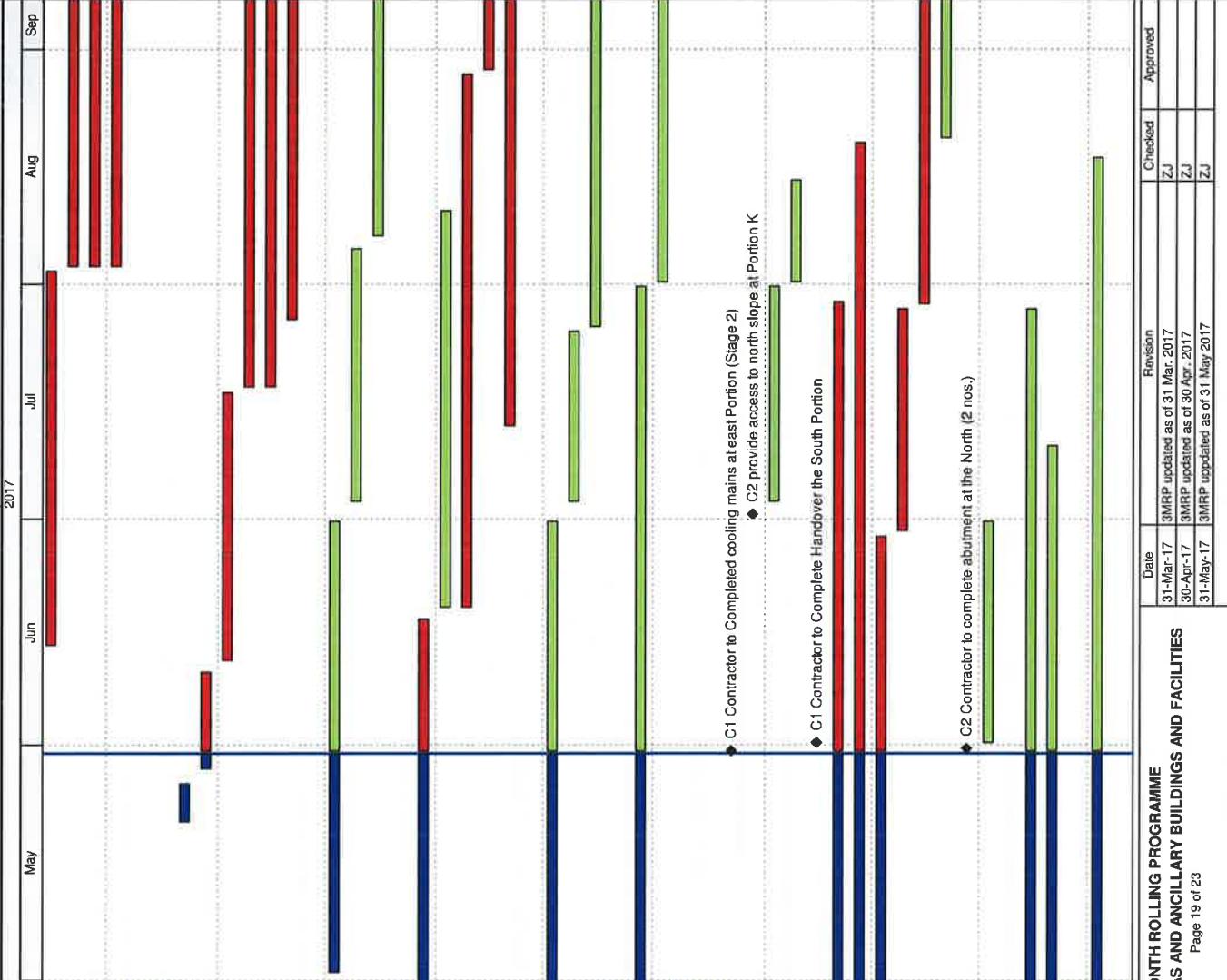


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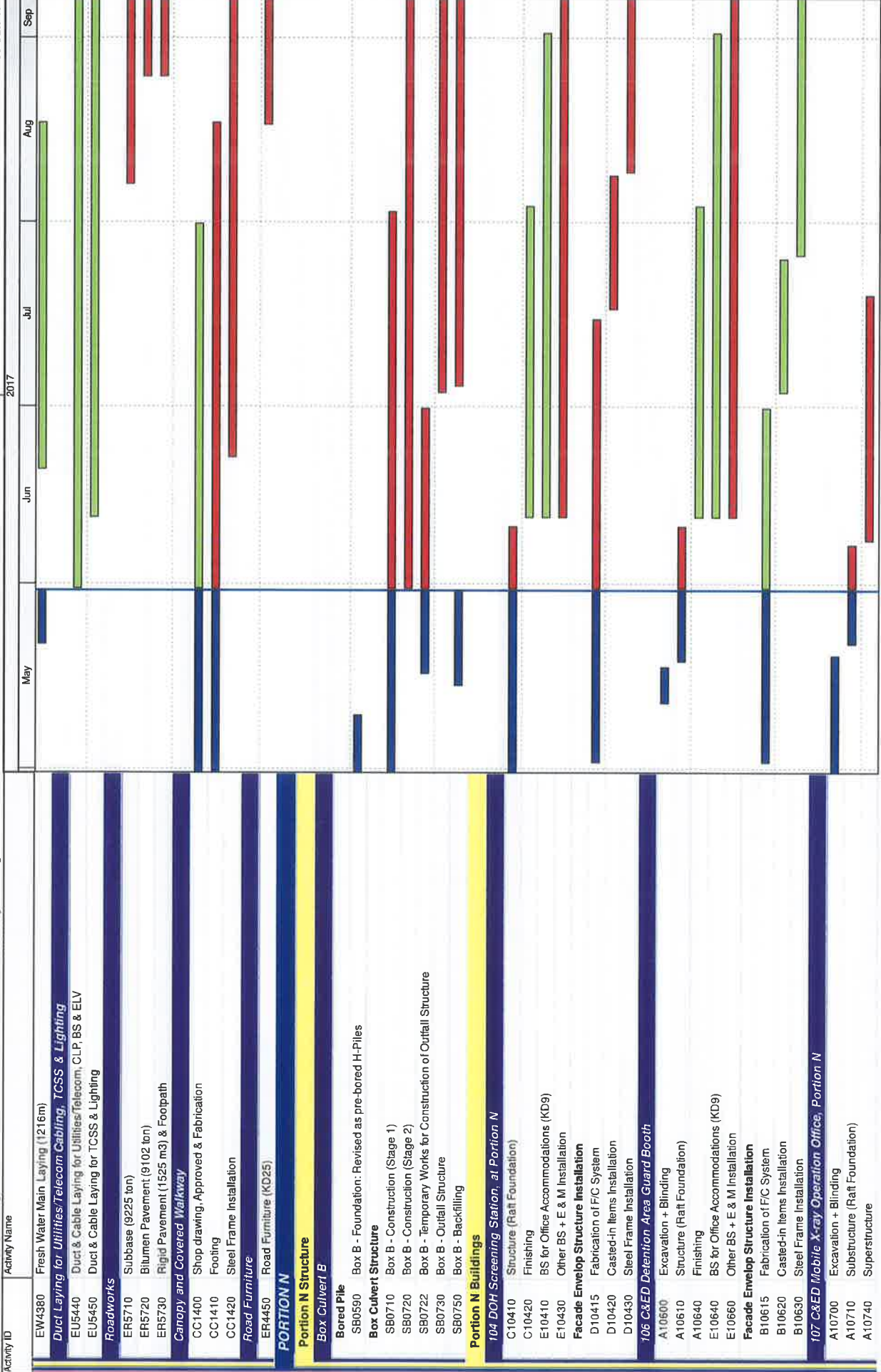
Activity ID	Activity Name	May	Jun	Jul	Aug	Sep
B00230	Superstructure					
B00240	Finishing					
B00250	BS for Office Accommodations (Degree of Completion 2)					
B00270	Other BS + E & M Installation					
Portion M Buildings						
108 - C&ED Mobile X-ray Operation Office, Portion M						
B10800	Excavation + Blinding					
B10810	Substructure (raft Foundation)					
B10840	Superstructure (Roof beams & Slabs)					
B10850	Finishing					
B10860	BS for Office Accommodations (KD9)					
B10880	Other BS + E & M Installation					
HPL Composite Panel Cladding System						
C10820	Fabrication of HPL Cladding					
C10830	Casted-in Items Installation					
C10840	Steel Frame Installation					
104 DOH Screening Station, at Portion M						
C10430	Structure (Raft Foundation)					
C10440	Finishing					
C10450	BS for Office Accommodations (KD9)					
C10460	BS + E&M for Office Accommodation (KD10)					
C10470	Other BS + E & M Installation					
Facade Envelop Structure Installation						
D10455	Fabrication of F/C System					
D10460	Casted-in Items Installation					
D10470	Steel Frame Installation					
203 - Outbound Coach/Shuttle Bus Exam Area & Mobile X-ray Operation Area						
ER5770	Radiation Screen Wall Construction					
ER5870	Construction of the Area and Access to the Interface Contractor					
External Works						
Additional Works (Filling & RE Slope), SA1						
ED3230	C1 Contractor to Completed cooling mains at east Portion (Stage 2)					
ED3232	C2 provide access to north slope at Portion K					
ED3233	Temp. access at north slope					
ED3234	Removal of temp. access at east slope					
ED3310	C1 Contractor to Complete Handover the South Portion					
ED3320	Fill Platform from +1.5PD to near PCB (South)					
ED3330	Add surcharge to Platform at +1.5mPD near PCB (South)					
ED3332	Consolidation of fill at the Platform (South East)					
ED3334	Remove surcharge at the Platform (South East)					
ED3336	Construct Rock Fill Slope near PCB (South East)					
ED3338	Consolidation of fill at the Platform (South West)					
ED3410	C2 Contractor to complete abutment at the North (2 nos.)					
ED3420	Fill Slope around C2 abutments					
Construction of Slopes						
ED3520	Construct RE slope (West)					
ED3550	Construction of fill slope (North)					
Drainage Works						
ED4370	Drainage Works (2129m & 102MHs)					
Waterpipe Laying						

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Activity ID	Activity Name	May	Jun	Jul	Aug	Sep
A10750	Finishing (KD9)					
A10760	Other BS + E & M Installation (KD10)					
HPL	Composite Panel Cladding System					
B10720	Fabrication of HPL Composite Panel System					
B10730	Casted-in Items Installation					
B10740	Steel Frame Installation					
200 - Inbound/Outbound Vehicle Detection Area						
ER5810	Construction of the Area and Access to the Interface Contractor					
202 - Outbound Cargo Mobile X-ray Operation Area						
ER5790	Radiation Screen Wall Construction					
ER5820	Construction of the Area and Access to the Interface Contractor					
211 - InmD GV Secondary Examination Bays Outbound						
ER5840	Construction of the Bays and Access to the Interface Contractor					
External Works for Portion N						
Works in Location 1.7A						
EJ1540	ELV Works & T&C in Location 1.7A					
Drainage Works						
ED4620	Drainage Works (964m & 56MHs), Stage 1 (Southern)					
ED4650	Sewerage (383m & 12MHs), Stage 1 (Southern)					
ED5750	Drainage Works (963m & 55MHs), Stage 2 (Northern)					
ED5760	Sewerage (383m & 12MHs), Stage 2 (Northern)					
Waterpipe Laying						
EW4530	Fresh Water Main Laying (641m)					
EW4540	Flushing Water Main Laying (413m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5460	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5470	Duct & Cable Laying for TCSS & Lighting					
Roadworks						
ER4620	Subbase (6475 ton)					
ER4650	Bitumen Pavement (10144ton)					
ER4660	Rigid Pavement (183 m3), Footpath & EVA					
Road Furniture						
ER4600	Road Furniture (KD25)					
PORTION P						
Retention Structure						
Retaining Wall RW1						
RW1110	Construction of Retaining Wall RW1 (U-shape, 5 bays)					
RW1140	Backfilling RW1					
Portion P Buildings						
105 IMMDD Guard Booth, Portion P						
A10510	Excavation + Blinding					
A10520	Substructure (Raft Foundation)					
A10530	On Grade Ground Slab					
A10540	Finishing					
E10500	BS for Office Accommodations (KD9)					
E10510	BS + E&M for Office Accommodation (KD10)					
E10520	Other BS + E & M Installation					
Facade Envelop Structure Installation						
A10560	Shop Drawing Submission and Approval					

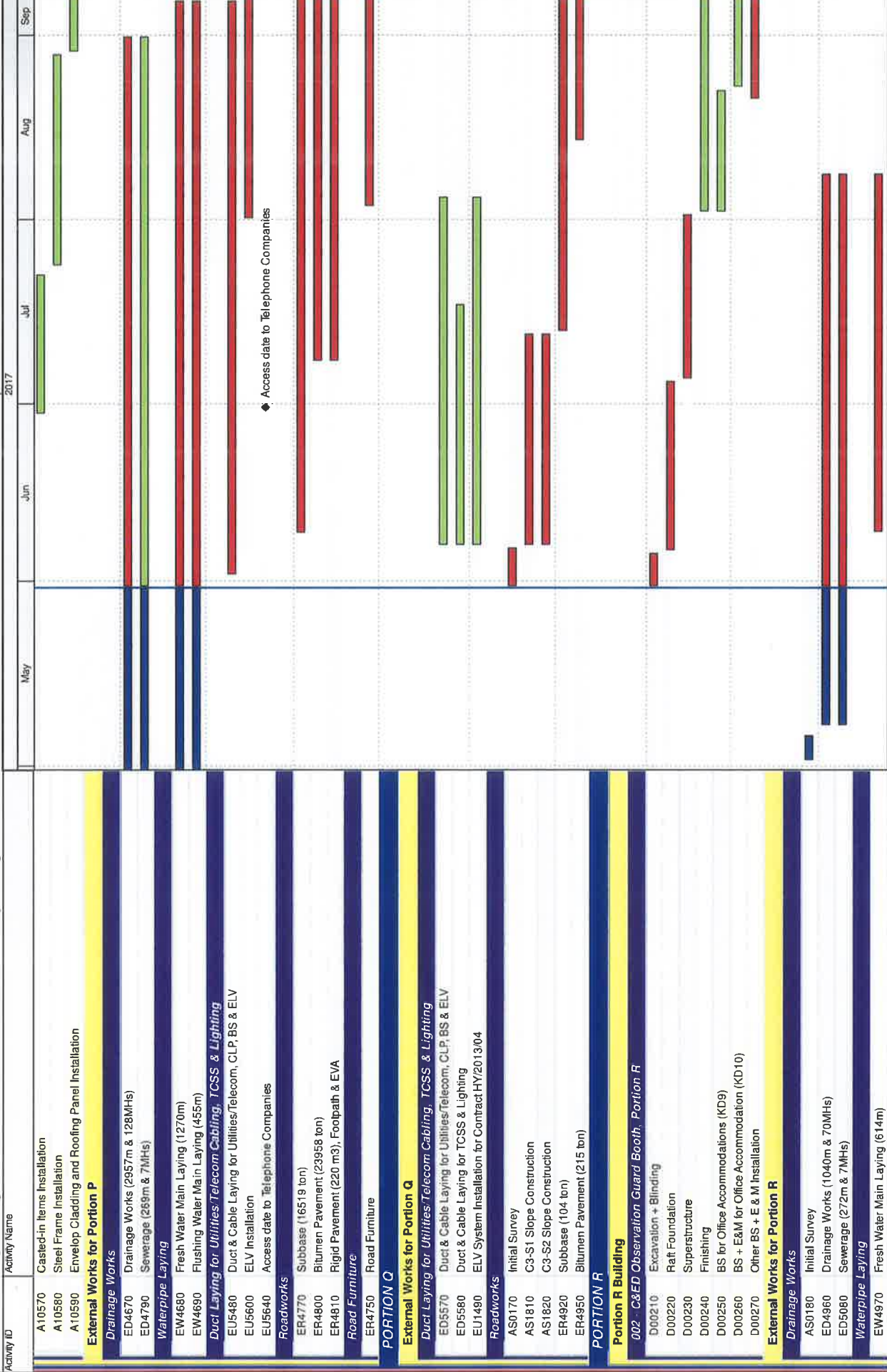
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Activity ID	Activity Name	2017				05-Jun-17
		May	Jun	Jul	Aug	
EW4980	Flushing Water Main Laying (222m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EUS500	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EUS510	Duct & Cable Laying for TCSS & Lighting					
Roadworks						
ERS060	Subbase (1734 ton)					
Landscape Works						
A5170	Design and Procurement for Irrigation System					
A5190	All landscape Soft & Hard Works					

- Actual Work
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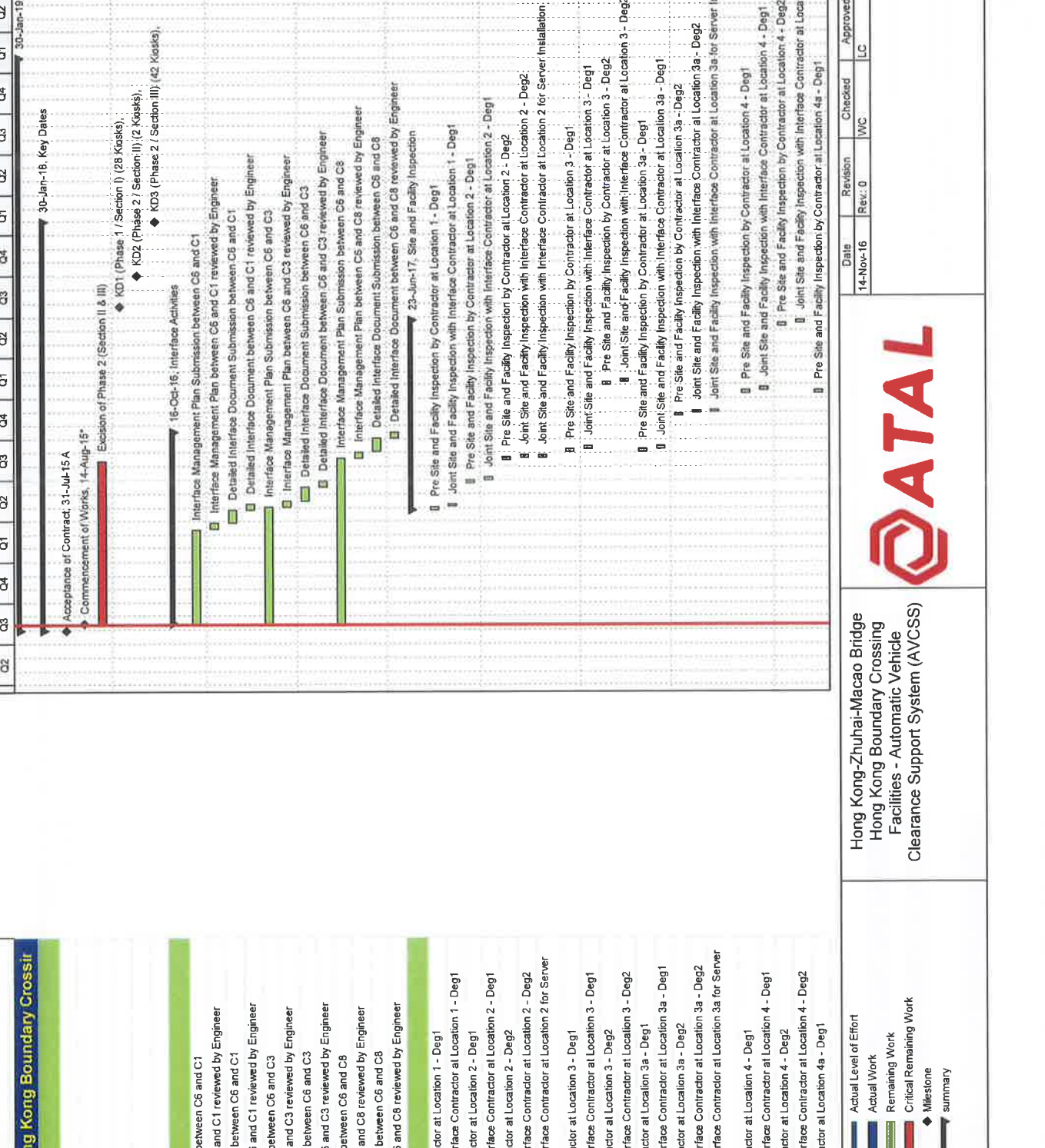
Activity ID	Activity Name	2015			2016			2017			2018			2019		
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossin																
Key Dates																
A1000	Acceptance of Contract															
A1010	Commencement of Works															
A1020	Excision of Phase 2 (Section II & III)															
A1120	KD1 (Phase 1 / Section I) (28 Kiosks)															
A1470	KD2 (Phase 2 / Section II) (2 Kiosks)															
A1480	KD3 (Phase 2 / Section III) (42 Kiosks)															
Interface Activities																
A6860	Interface Management Plan Submission between C6 and C1															
A6865	Interface Management Plan between C6 and C1 reviewed by Engineer															
A6870	Detailed Interface Document Submission between C6 and C1															
A6875	Detailed Interface Document between C6 and C1 reviewed by Engineer															
A6880	Interface Management Plan Submission between C6 and C3															
A6885	Interface Management Plan between C6 and C3 reviewed by Engineer															
A6890	Detailed Interface Document Submission between C6 and C3															
A6895	Detailed Interface Document between C6 and C3 reviewed by Engineer															
A6900	Interface Management Plan Submission between C6 and C8															
A6905	Interface Management Plan between C6 and C8 reviewed by Engineer															
A6910	Detailed Interface Document Submission between C6 and C8															
A6915	Detailed Interface Document between C6 and C8 reviewed by Engineer															
Site and Facility Inspection																
A4730	Pre Site and Facility Inspection by Contractor at Location 1 - Deg1															
A4740	Joint Site and Facility Inspection with Interface Contractor at Location 1 - Deg1															
A4760	Pre Site and Facility Inspection by Contractor at Location 2 - Deg1															
A4770	Joint Site and Facility Inspection with Interface Contractor at Location 2 - Deg1															
A4772	Pre Site and Facility Inspection by Contractor at Location 2 - Deg2															
A4774	Joint Site and Facility Inspection with Interface Contractor at Location 2 - Deg2															
A4775	Joint Site and Facility Inspection with Interface Contractor at Location 2 for Server Installation															
A4780	Pre Site and Facility Inspection by Contractor at Location 3 - Deg1															
A4790	Joint Site and Facility Inspection with Interface Contractor at Location 3 - Deg1															
A4800	Pre Site and Facility Inspection by Contractor at Location 3 - Deg2															
A4810	Joint Site and Facility Inspection with Interface Contractor at Location 3 - Deg2															
A4820	Pre Site and Facility Inspection by Contractor at Location 3a - Deg1															
A4830	Joint Site and Facility Inspection with Interface Contractor at Location 3a - Deg1															
A4840	Pre Site and Facility Inspection by Contractor at Location 3a - Deg2															
A4850	Joint Site and Facility Inspection with Interface Contractor at Location 3a - Deg2															
A4851	Joint Site and Facility Inspection with Interface Contractor at Location 3a for Server Installation															
A4860	Pre Site and Facility Inspection by Contractor at Location 4 - Deg1															
A4870	Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg1															
A4880	Pre Site and Facility Inspection by Contractor at Location 4 - Deg2															
A4890	Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg2															
A4891	Pre Site and Facility Inspection by Contractor at Location 4a - Deg1															

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Actual Level of Effort

Hong Kong-Zhuhai-Macao Bridge
 Hong Kong Boundary Crossing
 Facilities - Automatic Vehicle
 Clearance Support System (AVCSS)

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Detail Work Programme


Contract No.: HY/2013/06
 Activity ID

Activity Name	2015				2016				2017				2018				2019	
	Q2	Q3	Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
A4892																		
A4900																		
A4910																		
A4920																		
A4930																		
A4940																		
A4950																		
A4960																		
A4970																		
A4980																		
A4990																		
A5000																		
A5010																		
A5020																		
A5030																		
A5040																		
A5050																		
A5060																		
A5070																		
A5080																		
A5090																		
A5100																		
A5110																		
A5120																		
A5130																		
A5140																		
A5150																		
A5160																		
A5170																		
A5180																		
A5190																		
A5200																		
A5210																		
A5220																		
A5230																		
A5240																		
A5250																		
A5260																		
A5270																		
A5300																		
A5310																		
A5320																		
A5330																		
A5340																		
A5350																		

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█ Actual Level of Effort
█ Actual Work
█ Remaining Work
█ Critical Remaining Work
◆ Milestone
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Hong Kong-Zhuhai-Macao Bridge
 Hong Kong Boundary Crossing
 Facilities - Automatic Vehicle
 Clearance Support System (AVCSS)



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Activity ID	Activity Name	2015			2016			2017			2018			2019		
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
A5360	Pre Site and Facility Inspection by Contractor at Location 16 - Deg2															
A5370	Joint Site and Facility Inspection with Interface Contractor at Location 16 - Deg2															
A5375	Pre Site and Facility Inspection by Contractor at Location 17 - Deg1															
A5378	Joint Site and Facility Inspection with Interface Contractor at Location 17 - Deg1															
A5380	Pre Site and Facility Inspection by Contractor at Location 17 - Deg2															
A5390	Joint Site and Facility Inspection with Interface Contractor at Location 17 - Deg2															
A5395	Pre Site and Facility Inspection by Contractor at Location 18 - Deg1															
A5396	Joint Site and Facility Inspection with Interface Contractor at Location 18 - Deg1															
A5400	Pre Site and Facility Inspection by Contractor at Location 18 - Deg2															
A5410	Joint Site and Facility Inspection with Interface Contractor at Location 18 - Deg2															
A5420	Pre Site and Facility Inspection by Contractor at Location 19 - Deg1															
A5430	Joint Site and Facility Inspection with Interface Contractor at Location 19 - Deg1															
A5440	Pre Site and Facility Inspection by Contractor at Location 19 - Deg2															
A5450	Joint Site and Facility Inspection with Interface Contractor at Location 19 - Deg2															
A5470	Pre Site and Facility Inspection by Contractor at Inbound Vehicle Clearance Plaza															
A5480	Joint Site and Facility Inspection with Interface Contractor at Inbound Vehicle Clearance Plaza															
A5490	Pre Site and Facility Inspection by Contractor at Outbound Vehicle Clearance Plaza															
A5550	Joint Site and Facility Inspection with Interface Contractor at Outbound Vehicle Clearance Plaza															
Access Dates																
A1070	Location 1(PCB 001) Basement)-Deg1 (270d)															
A1081	Location 1(PCB 001) ELV Room (Grid Line E3))-Deg1 (270d)															
A1090	Location 2(PCB 001) First Floor Main Server Room)-Deg1 (330d)															
A1100	Location 2(PCB 001) First Floor Main Server Room)-Deg2 (380d)															
A1101	Location 2(PCB 001) First Floor Main Server Room) - For Server Installation															
A1102	Location 2(PCB 001) Ground Floor ELV Room (Grid Line E3)) - Deg1 (330d)															
A1103	Location 2(PCB 001) Ground Floor DOH Port Health Control Room (Grid Line B5)) - Deg1 (330d)															
A1104	Location 2(PCB 001) Ground Floor DOH Port Health Control Room (Grid Line B5)) - Deg2 (380d)															
A1110	Location 3(Inbd Cargo Exam Bldg (037) MDF Room)-Deg1 (400d)															
A1112	Location 3(Inbd Cargo Exam Bldg (037) ELV Room)-Deg1 (400d)															
A1114	Location 3(Inbd Cargo Exam Bldg (037) Platform Control Room)-Deg1 (400d)															
A1115	Location 3(Inbd Cargo Exam Bldg (037) Platform Control Room)-Deg2 (500d)															
A1116	Location 3(Inbd Cargo Exam Bldg (037) Inspector Offices 128,129,130,131,128,129,130,131,128,129,130,131,128,129,140,141)-Deg1 (400d)															
A1117	Location 3(Inbd Cargo Exam Bldg (037) Inspector Offices 128,129,130,131,128,129,140,141)-Deg2 (500d)															
A1130	Location 3a(Inbd Cargo Exam Bldg ROCARS Room)-Deg1 (-)															
A1131	Location 3a(Inbd Cargo Exam Bldg ROCARS Room)-Deg2 (480d)															
A1140	Location 3a(Inbd Cargo Exam Bldg Main Server Room)-Deg1 (-)															
A1141	Location 3a(Inbd Cargo Exam Bldg Main Server Room)-Deg2 (480d)															
A1142	Location 4a(Inbd Cargo Exam Bldg Main Server Room) - For Server installation															
A1150	Location 4(Outbd Cargo Exam Bldg (023))-Deg1 (530d)															
A1160	Location 4(Outbd Cargo Exam Bldg (023))-Deg2 (680d)															
A1161	Location 4a(Outbd Cargo Exam Bldg (023))-Deg1 (-)															

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Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)

	Actual Level of Effort
	Actual Work
	Remaining Work
	Critical Remaining Work
	Milestone
	summary

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Activity ID	Activity Name	2015			2016			2017			2018			2019		
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
A1162	Location 4a(Outbd Cargo Exam Bldg (023))-Deg2 (630d)															
A1170	Location 5(Common Utility Enclosure & Staff Subway)-Deg1 (320d)															
A1180	Location 5(Common Utility Enclosure & Staff Subway)-Deg2 (-)															
A1190	Location 6(Common Utility Enclosure & Staff Subway)-Deg1 (400d)															
A1200	Location 6(Common Utility Enclosure & Staff Subway)-Deg2 (-)															
A1210	Location 7(Common Utility Enclosure & Staff Subway)-Deg1 (270d)															
A1230	Location 8(Inbd Private Car Annex (025))-Deg1 (430d)															
A1240	Location 8(Inbd Private Car Annex (025))-Deg2 (580d)															
A1241	Location 8(Inbd Private Car Annex (025) Canopy)-Deg1 (430d)															
A1242	Location 8(Inbd Private Car Annex (025) Canopy)-Deg2 (580d)															
A1250	Location 9(Outbd Private Car Annex (032))-Deg1 (520d)															
A1260	Location 9(Outbd Private Car Annex (032))-Deg2 (660d)															
A1261	Location 9(Outbd Private Car Annex (032) Canopy)-Deg1 (520d)															
A1262	Location 9(Outbd Private Car Annex (032) Canopy)-Deg2 (660d)															
A1270	Location 10(Shuttle Bus Kiosks (006))-Deg1 (480d)															
A1280	Location 10(Shuttle Bus Kiosks (006))-Deg2 (550d)															
A1281	Location 10(Shuttle Bus Kiosks (006) Canopy)-Deg1 (480d)															
A1282	Location 10(Shuttle Bus Kiosks (006) Canopy)-Deg2 (550d)															
A1290	Location 11(Outbd Coach Kiosks (009))-Deg1 (400d)															
A1300	Location 11(Outbd Coach Kiosks (009))-Deg2 (480d)															
A1302	Location 11(Outbd Coach Kiosks (009) Canopy)-Deg1 (400d)															
A1303	Location 11(Outbd Coach Kiosks (009) Canopy)-Deg2 (480d)															
A1304	Location 11(Inbd Coach Kiosks (010))-Deg2 (480d)															
A1306	Location 11(Inbd Coach Kiosks (010) Canopy)-Deg1 (400d)															
A1310	Location 12(Inbd Private Car Kiosks(027))-Deg1 (400d)															
A1311	Location 12(Inbd Private Car Kiosks(027))-Deg2 (480d)															
A1312	Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg1 (400d)															
A1313	Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg2 (480d)															
A1314	Location 12(Inbd GV Kiosks (028))-Deg1 (400d)															
A1315	Location 12(Inbd GV Kiosks (028))-Deg2 (480d)															
A1316	Location 12(Inbd GV Kiosks (028) Canopy)-Deg1 (400d)															
A1317	Location 12(Inbd GV Kiosks (028) Canopy)-Deg2 (480d)															
A1318	Location 12(Outbd GV Kiosks (029))-Deg1 (400d)															
A1319	Location 12(Outbd GV Kiosks (029))-Deg2 (480d)															
A1320	Location 12(Outbd GV Kiosks (029) Canopy)-Deg1 (400d)															
A1321	Location 12(Outbd GV Kiosks (029) Canopy)-Deg2 (480d)															
A1330	Location 13(Outbd Private Car Kiosks (030))-Deg1 (480d)															
A1340	Location 13(Outbd Private Car Kiosks (030))-Deg2 (550d)															
A1341	Location 13(Outbd Private Car Kiosks (030) Canopy)-Deg1 (480d)															
A1342	Location 13(Outbd Private Car Kiosks (030) Canopy)-Deg2 (550d)															
A1350	Location 14(Future-Outbd/Private Car Kiosks)-Deg1 (610d)															
A1370	Location 15(Inbd Traffic Control Kiosk (100))-Deg1 (400d)															
A1380	Location 15(Inbd Traffic Control Kiosk (100))-Deg2 (480d)															

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Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)




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Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A1380	Location 16(Outbd Traffic Control Kiosk (1011))-Deg1 (400d)																		
A1400	Location 16(Outbd Traffic Control Kiosk (1011))-Deg2 (480d)																		
A1410	Location 17(Inbd Private Car Exam Bldg(033))-Deg1 (-)																		
A1420	Location 17(Inbd Private Car Exam Bldg(033))-Deg2 (550d)																		
A1430	Location 18(Outbd Private Car Exam Bldg(024))-Deg1 (-)																		
A1440	Location 18(Outbd Private Car Exam Bldg(024))-Deg2 (670d)																		
A1450	Location 19(DOH Cargo Clearance Bldg(043))-Deg1 (-)																		
A1460	Location 19(DOH Cargo Clearance Bldg(043))-Deg2 (550d)																		
A1461	Underground Ducting between Inbd Cargo Exam Bldg (037) and DOH Cargo Clearance Bldg (043) and CUE																		
A1462	Underground Ducting between Inbd Cargo Exam Bldg (037) and Inbd Vehicle Clearance Plaza																		
A1463	Underground Ducting between CUE and Outbd Car Exam Bldg (023)																		
A1464	Underground Ducting Between Outbd Cargo Exam Bldg (023) and Outbd Vehicle Clearance Plaza																		
A1465	Underground Ducting between CUE and Outbd Vehicle Clearance Plaza																		
A1466	Underground Ducting between CUE and Inbd P. Car Annex (025) and Shuttle Bus Kiosks (006)																		
A1467	Underground Ducting between PCB(001) and Inbd Coach Kiosks(010)																		
A1468	Underground Ducting between CUE and Outbd PCA (032)																		
A1478	Inbound Vehicle Clearance Plaza (Assume same as Location 3)																		
A1488	Outbound Vehicle Clearance Plaza (Assume same as Location 4 degree 1 + 51 day)																		
Interfaces Provisions																			
A7000	Inbound VID foundation and mounting structure (assume same as Access date of Inbound Vehicle Clearance Plaza)																		
A7010	Inbound VTS foundation and mounting poles (assume same as Access date of Inbound Vehicle Clearance Plaza)																		
A7020	Inbound TLS foundation and mounting poles (assume same as Access date of Inbound Vehicle Clearance Plaza)																		
A7030	Outbound VID foundation and mounting structure (assume same as Access date of Outbound Vehicle Clearance Plaza)																		
A7040	Outbound VTS foundation and mounting poles (assume same as Access date of Outbound Vehicle Clearance Plaza)																		
A7050	Outbound TLS foundation and mounting poles (assume same as Access date of Outbound Vehicle Clearance Plaza)																		
WA4 Site Erection & Servicing																			
A1740	Possession of Site																		
A1750	Method Statement & Drawing																		
A1760	Place Order to prepare materials																		
A1770	Review, revise and approve method statement																		
A1780	Equipment mobilization and construction material delivered to the site																		
A1790	Set up the alignment and level of the u-channel																		
A1800	Trial pit excavation																		
A1801	Excavation for chain-link fence footing																		
A4540	Underground Utility detection																		
A4550	Delivery of asphalt and fencing materials																		
A4560	Trimming and leveling soil surface for paving asphalt material																		
A4570	Remove the vegetation and base material on the soil surface by backhoe																		
A4580	Set out the alignment and level of the u-channel																		

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Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)

Legend:

- Actual Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
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- summary

Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
A4590	Installation of fencing post along the site boundary																		
A4600	Excavation for underground drainage pipe																		
A4610	Evenly spread the asphalt scrap material by backhoe																		
A4620	Cast concrete for the u-channel and underground drainage pipe																		
A4630	Remove the u-channel framework																		
A4640	Installation of chain-link fencing along the site boundary																		
A4650	Installation of access doors																		
A4660	Excavation for drainage ditch																		
A4670	Cast concrete for the drainage ditch																		
A4680	Compact the asphalt scrap material																		
A4690	Land surveying																		
A4700	Inspection of chain-link fencing and access doors																		
A4710	Testing of drains																		
A4720	Completion of the works																		
Detailed Design Specification																			
A1808	Preliminary System Proposal Submission																		
A1809	Engineer's agreement with preliminary system proposal																		
A1810	Draft Detailed Design Specification (DDS) Submission																		
A1814	Draft Hardware Function Design Specification for Computer system and Network system (HFD)																		
A1815	Draft Software Function Design Specification for Computer system and Network system (SFD)																		
A1820	Engineer's Review and Approval for Draft Detailed Design Specification (DDS)																		
A1823	Engineer's Review and Approval for Draft Hardware FDS for Computer system and Network system (HFD)																		
A1824	Engineer's Review and Approval for Draft Software FDS for Computer system and Network system (SFD)																		
A1829	Interface Requirements for CED (LBS, CED IT Server, Metro-Ethernet) and IMMD (AVCS)																		
A1830	Final DDS Submission (AVCSS,VTS,VDS)(Phase 1/Section 1)																		
A1831	Development of System Security Plan																		
A1840	Engineer's Review and Approval for Final DDS Submission including System Security Plan (AVCSS)(Phase 1/Section 1)																		
A1850	Final DDS Submission (AVCSS)(Phase 2/Section II&III)																		
A1860	Engineer's Review and Approval for DDS Submission (AVCSS)(Phase 2/Section II&III)																		
Construction Design and Management																			
A6920	Construction Health and Safety Plan Submission																		
A6930	Construction Health and Safety Plan reviewed by Engineer																		
Supply/Manufacture Mock-up Items																			
A4749	Preparation of Kiosk equipment Mock-up																		
A4750	Installation of Kiosk equipment Mock-up																		
Supply/Manufacture prototypes																			
A2900	Manufacture LED Display Prototype (VID, ODB and XDB)																		
A2910	Manufacture All-In-One Panel Prototype (AOP)																		
Software Design, Coding and Testing																			

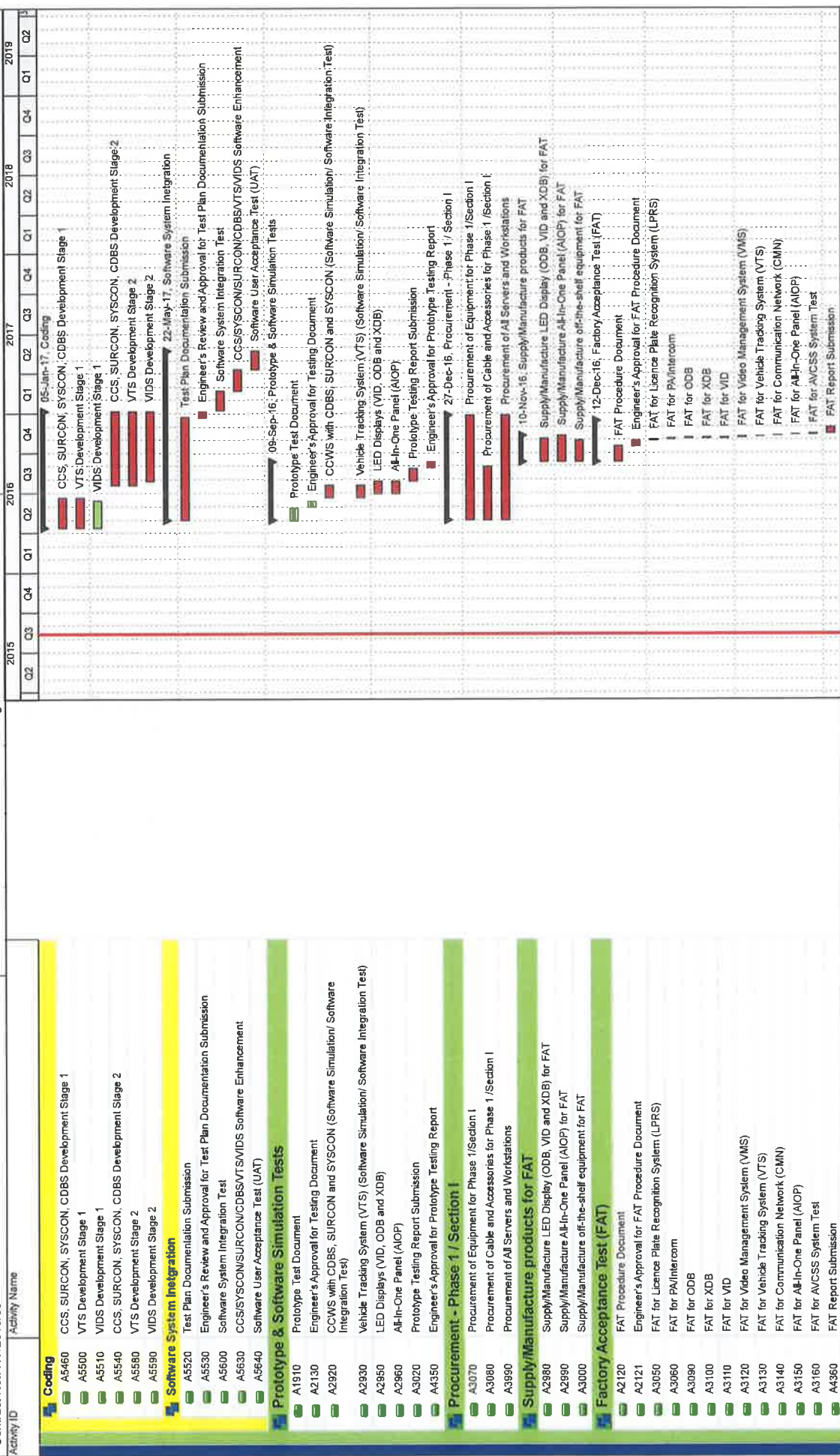
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- █ Actual Level of Effort
- █ Actual Work
- █ Remaining Work
- █ Critical Remaining Work
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		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A4370	Engineer's Approval for FAT Report Submission																		
Supply/Manufacture Equipment																			
A6830	Supply/Manufacture LED (ODB, VID and XDB) Display for installation																		
A6840	Supply/Manufacture AOP for installation																		
Delivery and Bench Acceptance Test for Phase 1/ Section 1																			
A6740	Material On-Site for Phase 1/Section 1																		
A6750	Material Bench Acceptance Test for Phase 1/Section 1																		
A6850	Cable On-Site for Phase 1/Section 1																		
A6960	AOP On-Site for Phase 1/Section 1																		
A6970	AOP Bench Acceptance Test for Phase 1/Section 1																		
A6980	LED (ODB, VID and XDB) On-Site for Phase 1/Section 1																		
A6990	LED (ODB, VID and XDB) Bench Acceptance Test for Phase 1/Section 1																		
Installation - Phase 1 / Section 1																			
Location 1 (PCB 001) Basement																			
A3081	Cable Laying and termination at Location 1 and Location 2																		
Location 1 (PCB 001) ELV Room (Grid Line E3)																			
A3101	Cable Laying and termination at Location 1 and Location 2																		
Location 2 (PCB 001) Ground Floor ELV Room (Grid Line E3)																			
A3121	Cable Laying and termination at Location 1 and Location 2																		
Location 2 (PCB 001) Ground Floor DOH Port Health Control Room (Grid Line BDI)																			
A2041	Cable Laying and termination at Location 1 and Location 2																		
A2042	Cable Testing																		
A2043	Intercom and PA system Installation																		
A2044	Intercom and PA system tuning																		
Location 2 (PCB 001) First Floor Main Server Room																			
A2001	Cable Laying and termination at Location 1 and Location 2																		
A2002	Cable Testing																		
A2003	AVCSS Network and Server Installation																		
A2004	AVCSS Network and Server Tuning																		
Location 3 (Inbd Cargo Exam Bldg 037) Inspector Offices 128, 129, 130, 131, 128, 12																			
A3241	Cable Laying and termination in Location 3 and Location 3a																		
A3242	AVCSS SURCON WS and 55" LCD Installation																		
A3243	VTS WS Installation																		
A3245	SURCON, WS Tuning																		
Location 3 (Inbd Cargo Exam Bldg 037) ELV Room																			
A3210	Cable Laying and termination between Location 3 and CUE																		
Location 3 (Inbd Cargo Exam Bldg 037) Platform Control Room																			
A2071	Cable Laying and termination in Location 3 and Location 3a																		
A2072	AVCSS SYSCON WS and 55" TV Wall Installation																		
A2074	AVCSS SYSCON WS Tuning																		
Location 3 (Inbd Cargo Exam Bldg 037) MDF Room																			
A3190	Cable Laying and termination between Location 3 and CUE																		
Location 3a (Inbd Cargo Exam Bldg 037) ROCARIS Room																			
A2091	Cable Laying and termination in Location 3 and Location 3a																		
A2092	AVCSS SYSCON, SURCON and Intercom Installation																		

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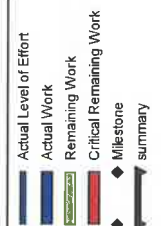
Hong Kong-Zhuhai-Macao Bridge
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Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A2093	VTS WS Installation																		
A2094	VID WS Installation																		
A2096	SURCON, SYSCON, WS Tuning																		
A3330	Location 3a(Inbd Cargo Exam Bldg Main Server Room)																		
A3340	AVCSS Server Installation																		
A3350	VTS Server Installation																		
A3360	Servers Tuning																		
A3410	Location 4(Outbd Cargo Exam Bldg (023) MDF Room)																		
A3370	Location 4 and 4a(Outbd Cargo Exam Bldg (023) ROCARS Room)																		
A3380	Cable Laying and termination in Location 4 and 4a																		
A3390	AVCSS SYSCON, SURCON and Intercom Installation																		
A3400	VTS WS Installation																		
A3400	SYSCON, SURCON, WS Tuning																		
A3430	Location 6(Common Utility Enclosure & Staff Subway)																		
A3440	Cable Laying between Location 5 and Location 7																		
A3440	Cable Laying between Location 5 and Location 6																		
A3480	ODB Switch Installation at EL Room 2-7																		
A3450	Location 6(Common Utility Enclosure & Staff Subway)																		
A3490	Cable Laying between Location 5 and Location 6																		
A3490	ODB Switch Installation at EL Room 8-9,11-12																		
A3470	Location 7(Common Utility Enclosure & Staff Subway)																		
A3470	Cable Laying between Location 5 and Location 7																		
A2452	Location 12(Inbd Private Car Kiosks (027,028,029))																		
A2452	Inbd Private Car Kiosks(027) - 3 nos (Phase 1)																		
A2452	Cable Containment in Kiosks																		
A2453	Cable Laying and termination																		
A2454	Cable Splicing, Testing and Labeling																		
A2460	AVCSS/DOH/MOM Kiosk Equipment Installation (9 nos)																		
A2470	ODB & XDB installation (9 nos)																		
A4380	Inbd Private Car Kiosk Installation Complete																		
A2532	Inbd Goods Vehicle Kiosks(028) - 5 nos (Phase 1)																		
A2532	Cable Containment in Kiosks																		
A2533	Cable Laying and termination																		
A2534	Cable Splicing, Testing and Labeling																		
A2540	AVCSS/DOH/MOM Kiosk Equipment Installation (5 nos)																		
A2550	AIOB Installation (5 nos)																		
A2560	ODB & XDB installation (5 nos)																		
A4390	Inbd Goods Vehicle Kiosk Installation Complete																		
A2572	Outbd Goods Vehicle Kiosks(029) - 5 nos (Phase 1)																		
A2572	Cable Containment in Kiosks																		
A2573	Cable Laying and termination																		
A2574	Cable Splicing, Testing and Labeling																		
A2580	AVCSS/DOH/MOM Kiosk Equipment Installation (5 nos)																		

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Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)



Date	Revision	Checked	Approved
14-Nov-16	Rev: 0	WC	LC

Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A2590	A1OP Installation (5 nos)																		
A2600	ODB & XDB installation (5 nos)																		
A4400	Outbd Goods Vehicle Kiosks Installation Complete																		
	Location 13(Outbd Private Car Kiosks (030)) - 9 nos (Phase 1)																		
A3582	Cable Containment in Kiosks																		
A3583	Cable Laying and termination																		
A3584	Cable Splicing, Testing and Labeling																		
A3590	AVCSS/DOH/MOM Kiosk Equipment Installation (9 nos)																		
A3600	ODB & XDB installation (9 nos)																		
A4410	Outbd Private Car Kiosks Installation Complete																		
	Location 14(Future-Outbd/Private Car Kiosks) - 6+6 nos																		
A2441	Cable Laying and termination at ELV Room in CUE																		
	Location 15(Inbd Traffic Control Kiosk (100))																		
A3651	Cable Laying and termination																		
A3652	AVCSS SYS/CON, SURCON Installation																		
A3660	VTS WS and 55" LCD Installation																		
A3670	SYS/CON, SURCON, WS Tuning																		
	Location 16(Outbd Traffic Control Kiosk (101))																		
A3701	Cable Laying and termination																		
A3702	AVCSS SYS/CON, SURCON Installation																		
A3710	VTS WS and 55" LCD Installation																		
	Location 17(Inbd Private Car Exam Bldg(033) Operational Office)																		
A3750	Cable Laying and termination																		
A3760	AVCSS SURCON and 55" LCD installation																		
A3770	SURCON Tuning																		
	Location 18 (Outbd Private Car Exam Bldg(024) Operational Office)																		
A3780	Cable Laying and termination																		
A3790	AVCSS SURCON and 55" LCD Installation																		
	Location 19 (DOH Cargo Clearance Bldg(043))																		
A2111	Cable Laying and termination between Location 19 and CUE																		
A2112	Cable Laying in Location 19																		
A2113	PA and Intercom Installation																		
A2123	PA and Intercom Tuning																		
	Inbd Vehicle Clearance Plaza - 8 nos VID, 7 nos VTS, 4 nos TLS																		
A4050	Inbound VID cabling from pillar box to VID field equipment																		
A4052	Inbound VTS cabling from pillar box to VTS field equipment																		
A4054	Inbound TLS cabling from pillar box to TLS field equipment																		
A4060	Inbound VID field equipment installation (8 VID)																		
A4062	Inbound VTS field equipment installation (4 RFID + 3 Cameras)																		
A4064	Inbound TLS field equipment installation (4 TLS)																		
A4066	Inbound VID, VTS and TLS field equipment tuning																		
	Outbd Vehicle Clearance Plaza - 8 nos VID, 6 nos VTS, 4 nos TLS																		
A4110	Outbound VID cabling from pillar box to VID field equipment																		
A4120	Outbound VTS cabling from pillar box to VTS field equipment																		
A4130	Outbound TLS cabling from pillar box to TLS field equipment																		

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Actual Level of Effort

- Actual Work
- Remaining Work
- Critical Remaining Work
- Milestone
- summary

Activity ID	Activity Name	2015				2016				2017				2018				2019				
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
A4140	Outbound VID field equipment installation (8 VID)																					
A4150	Outbound VTS field equipment installation (3 RFID + 3 Cameras)																					
A4170	Outbound TLS field equipment installation (4 TLS)																					
A4180	Outbound VID, VTS and TLS field equipment tuning																					
A3810	Underground Ducting between Inbd Cargo Exam Bldg (037) and CUE																					
A3830	Underground Ducting between Inbd Cargo Exam Bldg (037) and Inbd Vehicle Clea																					
A3850	Underground Ducting between CUE and Outbd Car Exam Bldg (023)																					
A3870	Underground Ducting Between Outbd Cargo Exam Bldg (023) and Outbd Vehicle I																					
A3880	Underground Ducting between CUE and Outbd Vehicle Clearance Plaza																					
A2150	On-Site Test and Commissioning (Phase 1 / Section I)																					
A2151	Engineer Approval for T&C Document																					
A2152	Joint Site Inspection for Permanent Power/Tele-communication for Initial on-site testing																					
A2153	Initial on-site Testing & Commissioning																					
A6601	Site Acceptance Test (Phase 1 / Section I)																					
A6602	Interface Readiness CED(LBS, CED IT, Metro-Ethernet) and IMMDD (AVS)																					
A6603	SAT for AVCSS																					
A6630	SAT for Location 18 (AVCSS SURCON and 55" LCD)																					
A6640	SAT Test Document Submission																					
A6800	Security Risk Assessment and Audit																					
A6810	Software Manual Documentations Submission																					
A6820	SRAA (Assessment)																					
A6820	Fix per SRAA Assessment																					
A6820	SRAA Audit																					
A5510	Operability Period Test (Phase 1 / Section I)																					
A5520	Joint Site Inspection for utilities, telecom connection and metro ethernet for OPT																					
A5550	Operability Period Test (OPT) Phase 1																					
A5550	Operability Period Test (OPT) Phase 2																					
A2230	Completion (Phase 1 / Section I)																					
A2231	AVCSS - Certificate of Completion (Phase 1/Section I)																					
A2180	Certificate of Completion Approval by Engineer																					
A2190	Training and Document (Phase 1 / Section I)																					
A2240	Training Materials & Documentation Submission																					
A2240	Operation and Maintenance Training																					
A2240	Site Operation (Phase 1/Section I)																					
A2240	Engineering Support for Phase 1 / Section I																					

Programme No.: HZMB-DWP
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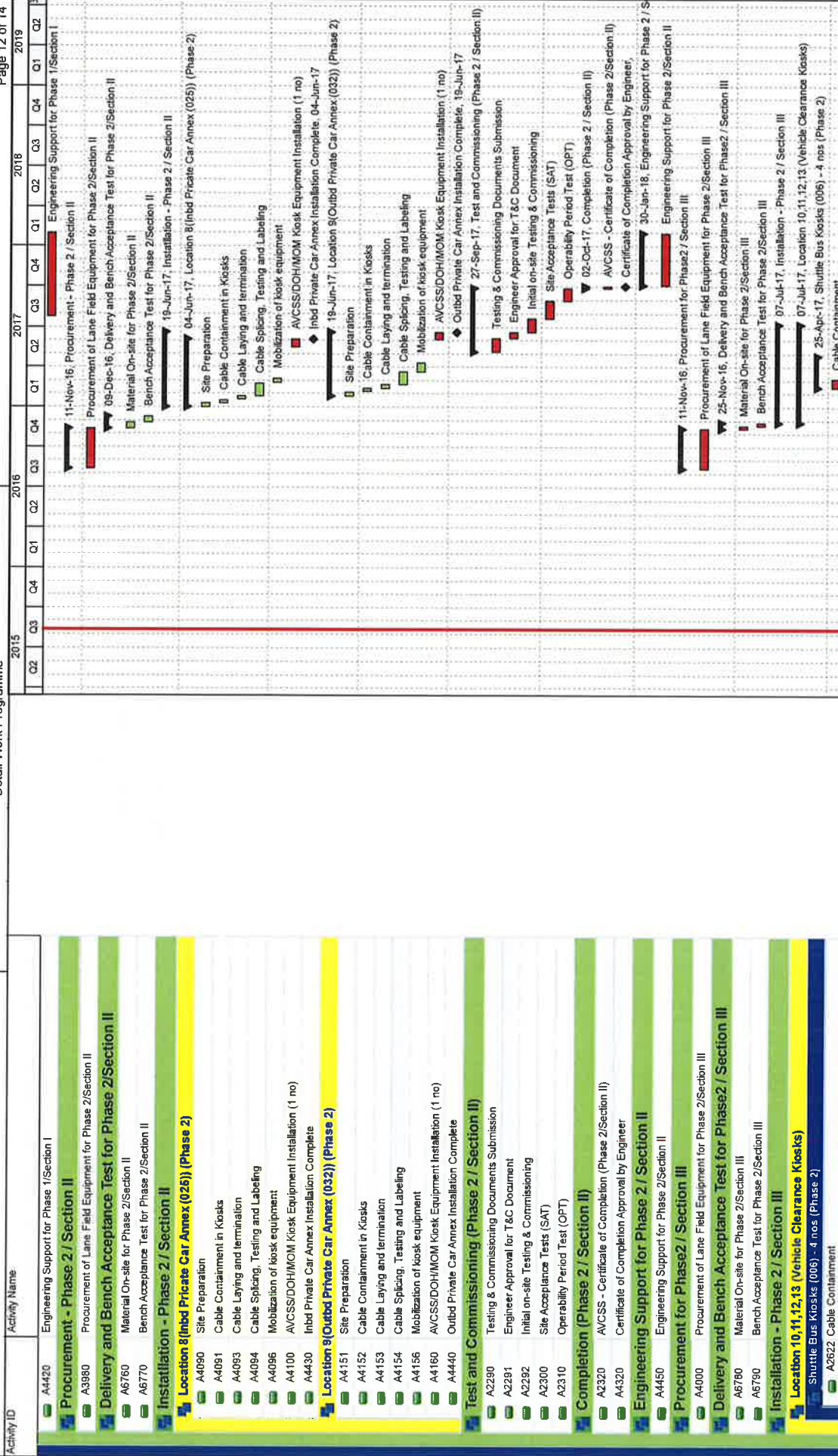
Date: 14-Nov-16
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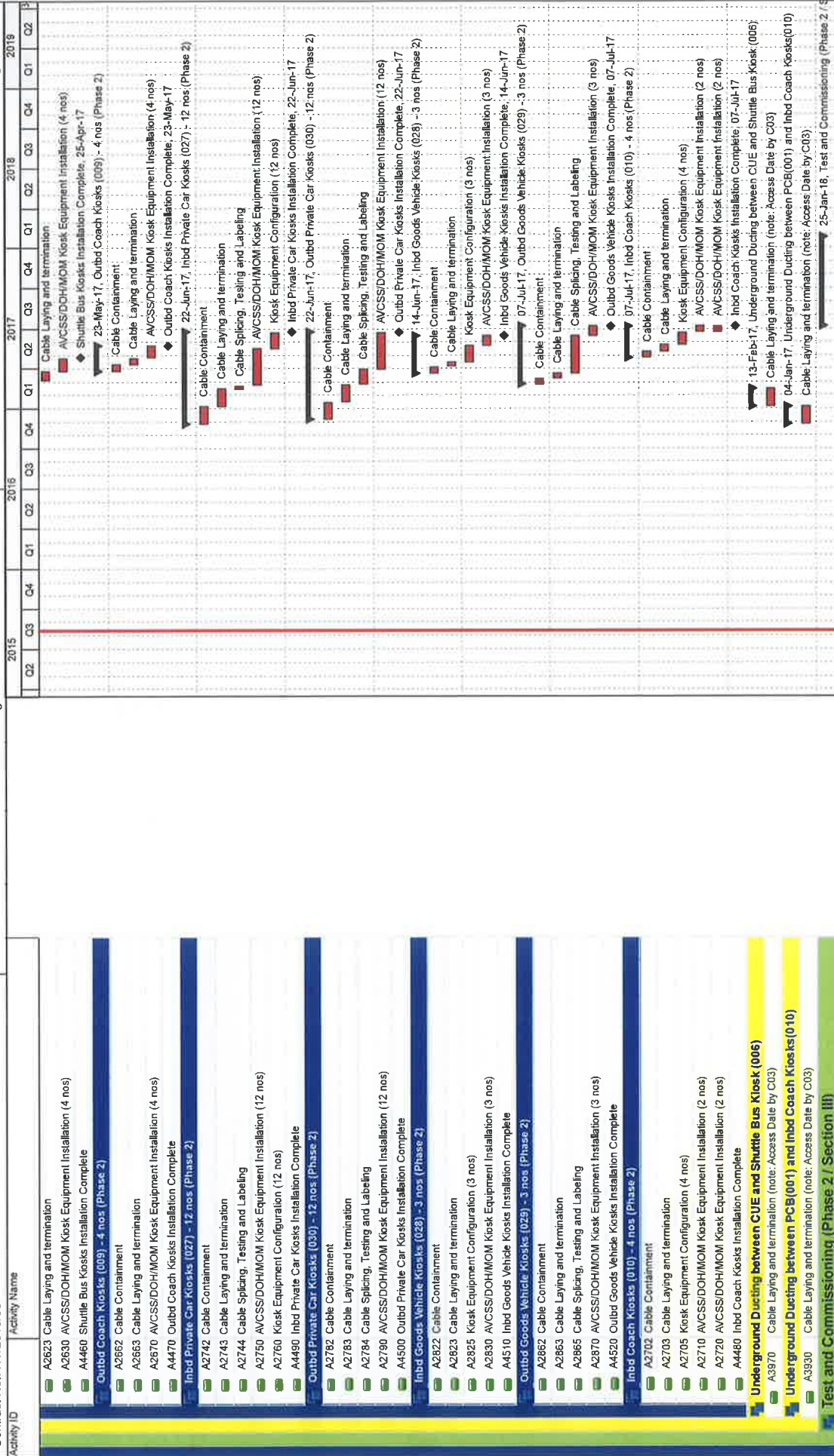
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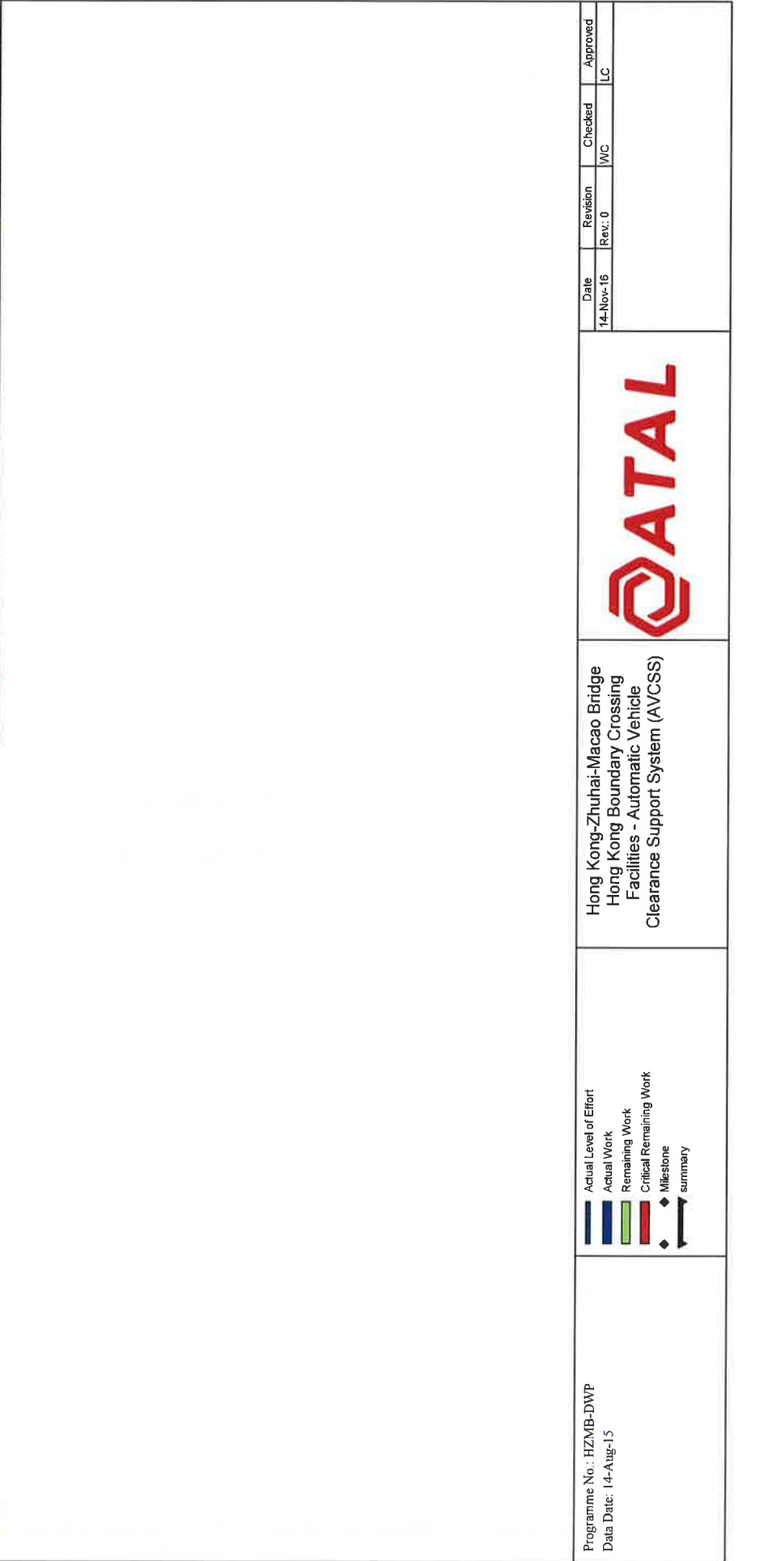
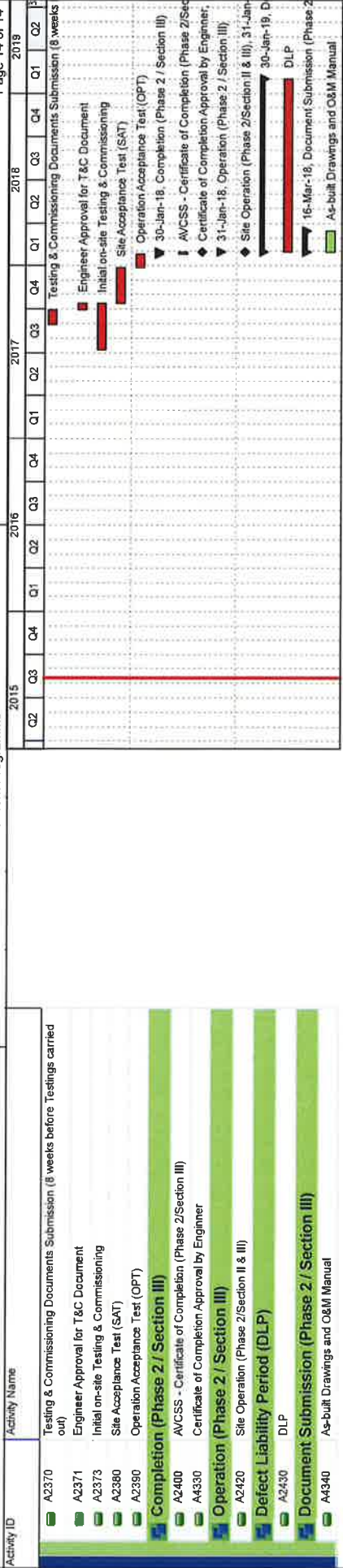
█ Actual Level of Effort
█ Actual Work
█ Remaining Work
█ Critical Remaining Work
◆ Milestone
▬ summary

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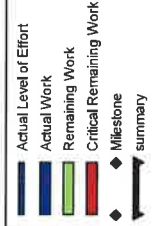
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13-Feb-17, Underground Ducting between CUE and Shuttle Bus Kiosk (006)
 Cable Laying and termination (note: Access Date by C03)
 04-Jan-17, Underground Ducting between PCB(001) and Inbd Coach Kiosks(010)
 Cable Laying and termination (note: Access Date by C03)
 25-Jan-16, Test and Commissioning (Phase 2 / Section III)



Programme No.: HZMB-DWP
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The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The text is centered between two thick, horizontal black bars.

Report No.: 0165/15/ED/0820

Appendix D

Event / Action Plan

Appendix D –

Event / Action Plan for Air Quality and Noise Monitoring and Water Quality Monitoring and Ecological Monitoring

Event / Action Plan for Air Quality

Event	Action			
	ET	IEC	ER	Contractor
Action Level				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.

Event	Action			
	ET	IEC	ER	Contractor
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

Event	Action			
	ET	IEC	ER	Contractor
Limit Level				
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.

Event	Action			
	ET	IEC	ER	Contractor
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedances abated.

Event / Action Plan for Construction Noise Monitoring

Event	Action			
	ET	IEC	ER	Contractor
Action Level	<ol style="list-style-type: none"> 1. Notify IEC and Contractor; 2. Identify source, investigate the causes of exceedance and propose remedial measures; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.

Event	Action			
	ET	IEC	ER	Contractor
Limit Level	<ol style="list-style-type: none"> 1. Inform IEC, ER, EPD and Contractor; 2. Identify source; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Event / Action Plan for Water Quality

Event	ET Leader	IEC	ER	Contractor
Action level being exceeded by one sampling day	<ol style="list-style-type: none"> 1. Repeat in situ measurement on next day of exceedance to confirm findings 2. Identify source(s) of impact 3. Inform IEC, contractor and ER 4. Check monitoring data, all plant, equipment and Contractor's working methods 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of noncompliance in writing 2. Notify Contractor 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of noncompliance in writing 2. Notify Contractor 	<ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the noncompliance in writing 2. Rectify unacceptable practice 3. Amend working methods if appropriate
Action level being exceeded by two or more consecutive sampling days	<ol style="list-style-type: none"> 1. Repeat in situ measurement to confirm findings 2. Identify source(s) of impact 3. Inform IEC, Contractor and ER 4. Check monitoring data, all plant, equipment and Contractor's working methods 5. Discuss mitigation measures with IEC, ER and Contractor 6. Ensure mitigation measures are implemented 7. Increase the monitoring frequency to daily until no exceedance of Action level 8. Repeat measurement on next day of exceedance to confirm findings 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method 2. Discuss with ET and Contractor on possible remedial actions 3. Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly 4. Assess the effectiveness of the implemented mitigation measures 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of noncompliance in writing 2. Discuss with IEC on the proposed mitigation measures 3. Make agreement on mitigation measures to be implemented 4. Ensure mitigation measures are properly implemented 5. Assess the effectiveness of the implemented mitigation measures 	<ol style="list-style-type: none"> 1. Inform the Engineer and confirm notification of the noncompliance in writing 2. Rectify unacceptable practice 3. Check all plant and equipment and consider changes of working methods 4. Discuss with ET and IEC on possible remedial actions and propose mitigation measures to IEC and ER within 3 working days of notification 5. Implement the agreed mitigation measures 6. Amend working methods if appropriate

Event	ET Leader	IEC	ER	Contractor
Limit level being exceeded by one sampling day	<ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings 2. Identify source(s) of impact 3. Inform IEC, Contractor, ER and EPD 4. Check monitoring data, all plant, equipment and Contractor's working methods 5. Discuss mitigation measures with IEC, ER and Contractor 6. Ensure mitigation measures are implemented 7. Increase the monitoring frequency to daily until no exceedance of Limit level 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method 2. Discuss with ET and Contractor on possible remedial actions 3. Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly 4. Assess the effectiveness of the implemented mitigation measures 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures 3. Request Contractor to critically review the working methods 4. Ensure mitigation measures are properly implemented 5. Assess the effectiveness of the implemented mitigation measures 	<ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the noncompliance in writing 2. Rectify unacceptable practice 3. Check all plant and equipment and consider changes of working methods 4. Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER 5. Implement the agreed mitigation measures 6. Amend working methods if appropriate
Limit level being exceeded by two or more consecutive sampling days	<ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings 2. Identify source(s) of impact 3. Inform IEC, contractor, ER and EPD 4. Check monitoring data, all plant, equipment and Contractor's working methods 5. Discuss mitigation measures with IEC, ER and Contractor 6. Ensure mitigation measures are implemented 7. Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method 2. Discuss with ET and Contractor on possible remedial actions 3. Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the ER accordingly 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures 3. Request Contractor to critically review the working methods 4. Make agreement on the mitigation measures to be implemented 5. Ensure mitigation measures are properly implemented 6. Assess the effectiveness of the implemented mitigation measures 7. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level 	<ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the noncompliance in writing 2. Take immediate action to avoid further exceedance 3. Rectify unacceptable practice 4. Check all plant and equipment and consider changes of working methods 5. Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER 6. Implement the agreed mitigation measures 7. Resubmit proposals of mitigation measures if problem still not under control 8. As directed by the engineer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level

Event / Action Plan for Ecological Monitoring

Event	ET Leader	IEC	ER	Contractor
Action Level	<ol style="list-style-type: none"> 1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor; 5. Check monitoring data. 6. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and finding with the ET and the Contractor. 	<ol style="list-style-type: none"> 1. Discuss monitoring with the IEC and any other measures proposed by the ET; 2. If ER/SOR is satisfied with the proposal of any other measures, ER/SOR to signify the agreement in writing on the measures to be implemented. 	<ol style="list-style-type: none"> 1. Inform the ER/SOR and confirm notification of the non-compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the ER/SOR; 3. Implement the agreed measures.

Event	ET Leader	IEC	ER	Contractor
Limit Level	<ol style="list-style-type: none"> 1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor of findings; 5. Check monitoring data; 6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 7. If ET proves that the source of impact is caused by any of the construction activity by the works contract, ET to arrange a meeting to discuss with IEC, ER/SOR and Contractor the necessity of additional dolphin monitoring and/or any other potential mitigation measures (e.g., consider to modify the perimeter silt curtain or consider to control/temporarily stop relevant construction activity etc.) and submit to IEC a proposal of additional dolphin monitoring and/or mitigation measures where necessary. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor; 3. Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. 4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise ER/SOR of the results and findings accordingly. 5. Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly. 	<ol style="list-style-type: none"> 1. Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. 2. If ER/SOR is satisfied with the proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, ER/SOR to signify the agreement in writing on such proposals and any other mitigation measures. 3. Supervise the implementation of additional monitoring and/or any other mitigation measures. 	<ol style="list-style-type: none"> 1. Inform the ER/SOR and confirm notification of the non-compliance in writing; 2. Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures. 3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary. 4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.

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The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The text is centered between two thick, horizontal black bars.

Report No.: 0165/15/ED/0820

Appendix E

Implementation Schedule for Environmental Mitigation Measures (EMIS)

Appendix E – Implementation Schedule of Environmental Mitigation Measures (EMIS)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
Air Quality				
S5.5.6.1	A1	1) The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	All construction sites	V
S5.5.6.2	A2	2) Proper watering of exposed spoil should be undertaken throughout the construction phase: <ul style="list-style-type: none"> • Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; • Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; • A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones. • The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; • Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; 	All construction sites	V
S5.5.6.2	A2	<ul style="list-style-type: none"> • When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; • The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials, • Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; • Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; • Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; • Any skip hoist for material transport should be totally enclosed by impervious sheeting; • Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top 	All construction sites	V
S5.5.6.2	A2	<ul style="list-style-type: none"> • Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; • Loading, unloading, transfer, handling or storage of bulk 	All construction sites	N/A

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<p>cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and</p> <ul style="list-style-type: none"> Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies 		
S5.5.6.3	A3	3) The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase.	All construction sites	V
S5.5.6.4	A4	4) Engineer to incorporate the controlled measures into the Particular Specification (PS) for the civil work. The PS should also draw the contractor's attention to the relevant latest Practice Notes issued by EPD.	All construction sites	V
S5.5.6.4	A5	5) Implement regular dust monitoring under EM&A programme during the construction stage.	Selected Representative dust monitoring station	V (Conducted by Contract No. HY/2010/02 and HY/2011/03)
S5.5.7.1	A6	<p>The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant;</p> <ul style="list-style-type: none"> Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system; All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP; Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system; The materials which may generate airborne dusty emissions should be wetted by water spray system; All receiving hoppers should be enclosed on three sides up to 3m above unloading point; All conveyor transfer points should be totally enclosed; All access and route roads within the premises should be paved and wetted; and Vehicle cleaning facilities should be provided and used by all concrete trucks before leaving the premises to wash off any dust on the wheels and/or body 	Selected Representative dust monitoring station	N/A
S5.5.2.7	A7	<p>The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point:</p> <ul style="list-style-type: none"> All road surface within the barging facilities will be paved; Dust enclosures will be provided for the loading ramp; Vehicles will be required to pass through designated wheels wash facilities; and Continuous water spray at the loading points 	All construction sites	V
Construction Noise (Air borne)				
S6.4.10	N1	<p>1) Use of good site practices to limit noise emissions by considering the following:</p> <ul style="list-style-type: none"> only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; 	All construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<ul style="list-style-type: none"> silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; mobile plant should be sited as far away from NSRs as possible and practicable; material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 		
S6.4.11	N2	2) Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	All construction sites	V
S6.4.12	N3	3) Install movable noise barriers (typically density@14kg/m acoustic mat or full enclosure close to noisy plants including compressor, generators, saw.	For plant items listed in Appendix 6D of the EIA report at all construction sites	N/A
S6.4.13	N4	4) Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.	For plant items listed in Appendix 6D of the EIA report at all construction site	V
S6.4.14	N5	5) Sequencing operation of construction plants where practicable	All construction sites where practicable	V
S5.1	N6	6) Implement a noise monitoring under EM&A programme.	Selected representative noise monitoring station	V (Conducted by Contract No. HY/2010/02)
Sediment				
S7.3	S1	1) The requirements as recommended in ETWB TC 34/2002 Management of Dredged/Excavated Sediment shall be included in the Particular Specification as appropriate.	All construction sites	V
Waste Management (Construction Waste)				
S8.3.8	WM1	<u>Construction and Demolition Material</u> The following mitigation measures should be implemented in handling the waste: <ul style="list-style-type: none"> Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; Carry out on-site sorting; Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and Implement an enhanced Waste Management Plan similar to E7WBTC (Works) No. 19/2005 - "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction. In addition, disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation 	All construction sites	V
S8.3.9-	WM2	C&D Waste	All construction	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
S8.3.11		<ul style="list-style-type: none"> • Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage. • The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage. 	sites	
S8.2.12-S8.3.15	WM3	<p><u>Chemical Waste</u></p> <ul style="list-style-type: none"> • Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. • Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation. • The storage area for chemical wastes should be clearly labeled and used solely for the storage of chemical waste; enclosed on at least 3 sides; have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20 % of the total volume of waste stored in that area, whichever is the greatest; have adequate ventilation; covered to prevent rainfall entering; and arranged so that incompatible materials are adequately separated. • Disposal of chemical waste should be via a licensed waste collector; be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers chemical waste collection service and can supply the necessary storage containers; or be to a reuser of the waste, under approval from the EPD. 	All construction sites	V
S8.3.16	WM4	<p><u>Sewage</u></p> <ul style="list-style-type: none"> • Adequate numbers of portable toilets should be provided for the workers. The portable toilets should be maintained in a state which will not deter the workers from utilizing these portable toilets. Night soil should be collected by licensed collectors regularly. 	All construction sites	V
S8.3.17	WM5	<p><u>General Refuse</u></p> <ul style="list-style-type: none"> • General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes. • A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law. 	All construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<ul style="list-style-type: none"> • Aluminium cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible. • Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor. • Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes. 		
Water Quality (Construction Phase)				
S9.11.1.7	W2	<p><u>Land Works</u></p> <p>General construction activities on land should also be governed by standard good working practice. Specific measures to be written into the works contracts should include:</p> <ul style="list-style-type: none"> • wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters; • sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided; • storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks; • silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm; • temporary access roads should be surfaced with crushed stone or gravel; • rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities; • measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system; • open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms; • manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers; • discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system; 	Land-based works area	V
S9.11.1.7	W2	<ul style="list-style-type: none"> • all vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit; • wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain; • the section of construction road between the wheel washing bay and the public road should be surfaced 	Land-based works area	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<ul style="list-style-type: none"> with crushed stone or coarse gravel; wastewater generated from concreting, plastering, Internal decoration, cleaning work and other similar activities, shall be screened to remove large objects; vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal; the contractors shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately; waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance; all fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank; and surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system. 		
S9.14	W3	Implement a water quality monitoring programme	Selected representative WQM stations	V (Conducted by Contract No. HY/2010/02)
Ecology (Construction Phase)				
S10.7	E4	<ul style="list-style-type: none"> Watering to reduce dust generation; prevention of siltation of freshwater habitats; Site runoff should be desilted, to reduce the potential for suspended sediments, organics and other contaminants to enter streams and standing freshwater 	Land-based works areas	V
S10.7	E5	<ul style="list-style-type: none"> Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time 	Land-based works areas	V
S10.7	E6	<ul style="list-style-type: none"> Dolphin Exclusion Zone Dolphin watching plan 	Marine works	V
S10.7	E7	<ul style="list-style-type: none"> Decouple compressors and other equipment on working vessels Proposal on design and implementation of acoustic decoupling measures applied during dredging and reclamation works Avoidance of percussive piling 	Marine works	V
S10.7	E8	<ul style="list-style-type: none"> Control vessel speed Skipper training Predefined and regular routes for working vessels; avoid Brother Islands. 	Marine Traffic	V
S10.10	E9	Vessel based dolphin monitoring	Northeast and Northwest Lantau	V (Conducted by Contract No. HY/2010/02)
Fisheries				
S11.7	F4	<ul style="list-style-type: none"> Maritime Oil Spill Response Plan (MOSRP); Contingency plan. 	HKBCF	V
Landscape & Visual (Detailed Design Phase)				
S14.3.3.1	LV1	<p>General design measures include:</p> <ul style="list-style-type: none"> Roadside planting and planting along the edge of the HKBCF Island is proposed; Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory 	HKBCF	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<p>hydro-seeding and planting;</p> <ul style="list-style-type: none"> • Protection measures for the trees to be retained during construction activities; • Optimizing the sizes and spacing of the bridge columns; • Fine-tuning the location of the bridge columns to avoid visually-sensitive locations; • Providing planting area around peripheral of HKBCF for tree planting screening effect; • Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline; • For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF; and • Fine-tuning the sizes of the structural members to minimize the bulkiness of buildings and adjustment of building arrangement to minimise disturbance to surrounding vegetation in the HKBCF. 		
Landscape & Visual (Construction Phase)				
S14.3.3.3	LV2	<p>Mitigate both Landscape and Visual Impacts</p> <p>G1. Grass-hydroseed bare soil surface and stock pile areas.</p> <p>G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge footbridge to screen bridge and traffic.</p> <p>G3. Not applicable as this is for HKLR.</p> <p>G4. For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF</p> <p>G5. Vegetation reinstatement and upgrading to disturbed areas</p> <p>G6. Maximizing new tree shrub and other vegetation planting to compensate tree felled and vegetation removed</p> <p>G7. Providing planting area around peripheral of HKBCF for tree planting screening effect;</p> <p>G8. Plant salt-tolerant native and shrubs etc along the planter strip at affected seawall.</p> <p>G9. Reserve of loose natural granite rocks for re-use, Provide new coastline to adopt "natural-look" by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enhance "natural-look" of the new coastline.</p>	HKBCF	N/A
S14.3.3.3	LV3	<p><u>Mitigate Visual Impacts</u></p> <p>V1. Minimize time for construction activities during construction period.</p> <p>V2. Provide screen hoarding at the portion of the project site / works areas / storage areas near VSRs who have close low-level views to the Project during HKBCF construction.</p>	HKBCF	N/A
EM&A				
S15.2.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual	All construction sites	V
S15.5 – S15.6	EM2	<p>1) An Environmental Team needs to be employed as per the EM&A Manual.</p> <p>2) Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation</p>	All construction sites	V

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Appendix F

Site Audit Findings and Corrective Actions

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Appendix F – Site Audit Findings and Corrective Actions

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. During the reporting period, 13 site inspections were carried out on 2, 9, 16, 24 and 30 March 2017, 5, 12, 20, and 28 April 2017 and 5, 11, 18 and 26 May 2017 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area).

Particular observations during the site inspections are described below.

For Contract No. HY/2013/03

24 February 2017

1. CHEC was reminded to provide drip tray for chemical containers. Subsequently, drip tray for chemical containers were provided. The observation was closed on 02 March 2017.
2. CHEC was reminded to provide maintenance for a generator in A8 Bridge which emitted smoke. Subsequently, the generator was removed. The observation was closed on 02 March 2017.
3. CHEC was reminded to remove stagnant water onsite. Subsequently, stagnant water was removed. The observation was closed on 02 March 2017.
4. CHEC was reminded to remove general refuse accumulated at Box Culvert B. Subsequently, general refuse accumulated at Box Culvert B was removed. The observation was closed on 02 March 2017.

02 March 2017

1. The Contractor was reminded to increase watering for dust suppression on site. Subsequently, watering for dust suppression was provided. The observation was closed on 09 March 2017.
2. The Contractor was reminded to remove food waste accumulated at Building 026 and 057. Subsequently, food waste accumulated at Building 026 and 057 were removed. The observation was closed on 09 March 2017.

09 March 2017

1. The Contractor was reminded to remove the general refuse accumulated at Building 054 and 037. Subsequently, general refuse accumulated at Building 054 and 037 was removed. The observation was closed on 16 March 2017.
2. The Contractor was reminded to remove stagnant water accumulated at drip tray for chemical containers at Building 054. Subsequently, stagnant water accumulated at drip tray for chemical containers at Building 054 was removed. The observation was closed on 16 March 2017.

16 March 2017

1. The Contractor was reminded to remove the food waste accumulated at Building 037 and 038. Subsequently, food waste accumulated at Building 037 and 038 were removed. The observation was closed on 24 March 2017.

24 March 2017

1. The Contractor was reminded to remove stagnant water accumulated at Building 037. Subsequently, stagnant water accumulated at Building 037 was removed. The observation was closed on 30 March 2017.

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2. The Contractor was reminded to remove the construction waste accumulated at Building 037.
Subsequently, construction waste accumulated at Building 037 were removed. The observation was closed on 30 March 2017.
3. The contractor was reminded to remove food waste accumulated at STP. Subsequently, food waste accumulated at STP were removed. The observation was closed on 30 March 2017.

30 March 2017

1. The Contractor was reminded to remove food waste accumulated at Building 033.
Subsequently, food waste was removed. The observation was closed on 05 April 2017.
2. The Contractor was reminded to remove the stagnant water accumulated at the drip tray of the chemical container of Building 033. Subsequently, stagnant water at the drip tray was removed. The observation was closed on 05 April 2017.

5 April 2017

1. The Contractor was reminded to increase watering for dust suppression on site.
Subsequently, watering was increased for dust suppression. The observation was closed on 12 April 2017.
2. The Contractor was reminded to remove stagnant water accumulated at Building 037.
Subsequently, stagnant water was removed. The observation was closed on 12 April 2017.
3. The Contractor was reminded to remove construction waste accumulated at Building 054, 041 and 042. Subsequently, construction waste was removed. The observation was closed on 12 April 2017.

12 April 2017

1. The Contractor was reminded to remove general waste accumulated at CUE works area.
Subsequently, general waste was removed. The observation was closed on 20 April 2017.
2. The Contractor was reminded to remove stagnant water accumulated at CUE works area.
Subsequently, stagnant water was removed. The observation was closed on 20 April 2017.

20 April 2017

1. The Contractor was reminded to provide drip tray for the chemical containers at Building 037. Subsequently, drip trays were provided. The observation was closed on 28 April 2017.
2. The Contractor was reminded to increase watering for dust suppression on site.
Subsequently, watering was increased for dust suppression. The observation was closed on 28 April 2017.

28 April 2017

1. The Contractor was reminded to remove stagnant water accumulated at drip trays at CUE works area. Subsequently, stagnant water at drip trays was removed. The observation was closed on 05 May 2017.
2. The Contractor was reminded to improve housekeeping at Bridge A7. The Contractor was reminded to improve housekeeping at Bridge A7. Subsequently, housekeeping was improved. The observation was closed on 05 May 2017.

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05 May 2017

1. The Contractor was reminded to provide drip trays for chemical containers at Building 037. Subsequently, drip trays were provided. The observation was closed on 11 May 2017.
2. The Contractor was reminded to remove general waste accumulated at Building 037. Subsequently, general waste was removed. The observation was closed on 11 May 2017.

11 May 2017

1. The Contractor was reminded to increase watering for dust suppression on site. Subsequently, watering was increased for dust suppression. The observation was closed on 18 May 2017.
2. The Contractor was reminded to remove stagnant water accumulated at Building 040. Subsequently, stagnant water was removed. The observation was closed on 18 May 2017.

18 May 2017

1. The Contractor was reminded to remove stagnant water accumulated at Building 041. Subsequently, stagnant water was removed. The observation was closed on 26 May 2017.
2. The Contractor was reminded to remove general waste accumulated at A9 Bridge. Subsequently, general waste was removed. The observation was closed on 26 May 2017.

26 May 2017

1. The Contractor was reminded to remove general and construction waste accumulated on site. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.
2. The Contractor was reminded to remove stagnant water accumulated on site. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

02 March 2017

1. Nil findings.

09 March 2017

1. Nil findings.

16 March 2017

1. Nil findings.

24 March 2017

1. Nil findings.

30 March 2017

1. Nil findings.

05 April 2017

1. Nil findings.

12 April 2017

1. Nil findings.

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20 April 2017

1. Nil findings.

28 April 2017

1. Nil findings.

05 May 2017

1. Nil findings.

11 May 2017

1. Nil findings.

18 May 2017

1. Nil findings.

26 May 2017

1. Nil findings.

The Contractor has rectified most of the observations as identified during environmental site inspections during the reporting period. Follow-up actions for outstanding observations will be inspected during the next site inspections.

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Appendix G

Waste Flow Table



Monthly Summary of Waste Flow Table for 2017 (year)

Name of Person completing the Record: Marko Chan

Month	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of Non-inert C&D Wastes Generated Monthly				
	Total Quantity Generated (in '000m ³)	Broken Concrete (see Note 1) (in '000m ³)	Reused in the Contract (in '000m ³)	Reused in other Projects (in '000m ³)	Disposed as Public Fill (in '000m ³)	Metals (in '000 Kg)	Paper/ cardboard packaging (in '000 Kg)	Plastics (see Note 2) (in '000 Kg)	Chemical Waste (in '000 Kg)	Others, e.g. general refuse (in '000m ³)
Jan	0.000	0	0	0	0.000	0	0	0	0	0.580
Feb	0.000	0	0	0	0.000	0	0	0	0	0.585
Mar	0.000	0	0	0	0.000	0	0	0	0	0.999
Apr	0.043	0	0	0	0.043	0	0	0	0	1.073
May	12.682	0	0	12.637	0.045	0	0	0	0	1.321
Jun										
Jul										
Aug										
Sept										
Oct										
Nov										
Dec										
Total	12.725	0.000	0.000	12.637	0.088	0.000	0.000	0.000	0.000	4.558

Notes:

- (1) Broken concrete for recycling into aggregates.
- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (3) In order to convert the quantities of inert C&D materials reused in other projects (29,065 tonnes) from tonnes to m³, a conversion factor is used and shown as follows:
 Volume (in m³) = Mass (in tonnes) / 2.3 (in tonnes/ m³)
 Where 2.3 (in tonnes/ m³) is the density of surplus filling materials provided by the Contractor

Monthly Summary of Excavated Marine Sediment for 2017 (year)

Month	Total Quantity of Excavated Marine Sediment Generated in '000m ³	Reused in this contract in '000m ³	Reused in other Projects in '000m ³	Disposed of at CMP in '000m ³
Jan	0.656	0.000	0.000	0.656
Feb	0.264	0.000	0.000	0.264
Mar	0.000	0.000	0.000	0.000
Apr	1.288	0.000	0.000	1.288
May	1.440	0.000	0.000	1.440
Jun				
Jul				
Aug				
Sep				
Oct				
Nov				
Dec				
Total	3.648	0.000	0.000	3.648



ATAL Technologies Ltd.
Contract No. HY/2013/06 HKBCF Automatic Vehicle Clearance Support System
Location: Artificial Island of HKIAP (C3 Area)

Monthly Summary Waste Flow Table for 2017

Month	Inert C&D Waste disposal / 廢性廢物 (in tonnes) (see Note 1)				Non-inert C&D Waste disposal 非廢性廢物 (in tonnes)				Waste to be recycled and returned / 可再循環利用或回收的廢物								Total Quantity Generated 總生產量		
	Reused in the Work Package (e.g. backfilling) 再用於工程 (如回填)		Reused in other Projects 再用於其他工程		Inert Waste (e.g. soil, broken concrete, rubble, fill material etc.) 廢性廢物 (如泥, 石, 磚, 料等)		Others (e.g. general refuse, broken formwork etc) 其他 (如垃圾, 廢板枋等)		Metals 金屬		Plastic 塑膠		Paper/cardboard packaging 廢紙/包裝紙類		Chemical Waste 化學廢物		Est. Qty. 估計數量	Act. Qty. 實際數量	
	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量			
January	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
February	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
March	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	
April	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.005	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.005	
May	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.020	0.020	0.020	0.000	0.000	0.000	0.000	0.000	0.020	0.020	0.020	
June																			
July																			
August																			
September																			
October																			
November																			
December																			
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.027	0.027	0.030	0.030	0.000	0.004	0.004	0.000	0.000	0.027	0.027	0.027	0.027

Notes: (1) The quantities of C&D Materials, in tonne, was calculated by multiply the estimated volume, in m3, with the density of the soil, which is 1.5 gcm⁻³.

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Appendix H

Environmental Licenses and Permits

Appendix H - Environmental Permit / Licences Summary for Contract No. HY/2013/03

Item	Permit/Licence Registration	Permit No.	Work Area	Application Date	Issue Date	Valid Date		Status	Remark
						From	To		
1	Environmental Permit Pursuant to Environmental Impact Assessment Ordinance	EP-353/2009/K	HKBCF	24-Mar-16	11-Apr-16	11-Apr-16	Nil	Valid	
2	Notification Pursuant to Section 3(1) of The Air Pollution Control (Construction Dust) Regulation	Ref No. 387703	Main Site Area	15-Apr-15	15-Apr-15	15-Apr-15	Nil	Valid	
3	Notification Pursuant to Section 3(1) of The Air Pollution Control (Construction Dust) Regulation	Ref No. 387735	Works Area WA3	15-Apr-15	15-Apr-15	15-Apr-15	Nil	Valid	
4	Billing A/C for Construction Waste Disposal Pursuant to Section 6 & 9 of the Waste Disposal (Charges for Disposal of Construction waste) Regulation	A/C No. 7022228	Main Site Area, WA3 & 4	15-Apr-15	06-May-15	06-May-15	Nil	Valid	
5	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	5213-951-C1186-28	Main Site Area	28-Apr-15	01-Jun-15	01-Jun-15	Nil	Valid	
6	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	5213-974-C3597-03	Works Area WA4	28-Apr-15	01-Jun-15	01-Jun-15	Nil	Valid	
7	Water Discharge License Pursuant to Water Pollution Control Ordinance (Cap 358)	WT00022180-2015	Works Area WA3	29-Apr-15	04-Aug-15	03-Aug-15	31-Aug-20	Valid	
8	Water Discharge License Pursuant to Water Pollution Control Ordinance (Cap 358)	WT00025384-2016	Main Site Area	09-Mar-16	10-Nov-16	10-Nov-16	30-Sep-20	Valid	
9	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	PP-RS0028-16	Portion A, G, H & N	15-Sep-16	29-Sep-16	03-Oct-16	02-Apr-17	Valid until 02-Apr-17	
10	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS1267-16	Main Site Area	02-Dec-16	16-Dec-16	19-Dec-16	18-Mar-17	Valid until 18-Mar-17	
11	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS1329-16	Main Site Area	09-Dec-16	23-Dec-16	01-Jan-17	30-Apr-17	Valid until 30-Apr-17	
12	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0205-17	Main Site Area	01-Mar-17	15-Mar-17	19-Mar-17	18-Jun-17	Valid from 19-Mar-17	
13	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	PP-RS0008-17	Box Culvert B	06-Apr-17	20-Apr-17	21-Apr-17	19-Jul-17	Valid from 21-Apr-17	
14	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0382-17	Main Site Area	10-Apr-17	25-Apr-17	27-Apr-17	24-Jul-17	Valid from 27-Apr-17	

15	Permit issued Under the Dumping at Sea Ordinance	EP/MD/17-170	East of Sha Chau (CMP Vd)	12-Jan-17	24-Jan-17	05-Feb-17	04-Mar-17	Valid until 04-Mar-17
16	Permit issued Under the Dumping at Sea Ordinance	EP/MD/17-190	East of Sha Chau (CMP Vd)	01-Mar-17	17-Mar-17	20-Mar-17	19-Apr-17	Valid from 20-Mar-17 to 19-Apr-17
17	Permit issued Under the Dumping at Sea Ordinance	EP/MD/18-005	East of Sha Chau (CMP Vd)	10-Apr-17	24-Apr-17	25-Apr-17	24-May-17	Valid from 25-Apr-17 to 24-May-17

Environmental Permit / Licences Summary for Contract No. HY/2013/06 within the HY/2013/03 site works area

Item	Permit/Licence Registration	Permit No.	Work Area	Application Date	Issue Date	Valid Date		Status	Remark
						From	To		
1	Environmental Permit Pursuant to Environmental Impact Assessment Ordinance	EP-353/2009/K	HKBCF	24-Mar-16	11-Apr-16	11-Apr-16	Nil	Valid	
2	Billing A/C for Construction Waste Disposal Pursuant to Section 6 & 9 of the Waste Disposal (Charges for Disposal of Construction waste) Regulation	A/C No. 7023015	Main Site Area	07-Aug-15	20-Aug-15	20-Aug-15	Nil	Valid	
3	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	#

The Contractor of Contract No. HY/2013/06 was advised to register as a chemical waste producer when chemical waste is expected to generate for the foreseeable future from the operations.

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Appendix I

Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions

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Appendix I –

Statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

For Contract No. HY/2013/03

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This reporting period	3	0	0
From commencement date of construction to end of reporting period	8	0	0

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This reporting period	0	0	0
From commencement date of construction to end of reporting month	0	0	0



5 July 2017

By Fax (3468 2076) and By Post

AECOM Asia Co. Ltd.
The PRE's Office
5 Ying Hei Road, Tung Chung, Lantau
Hong Kong

Attention: Mr. W.S. Ng

Dear Sir,

**Re: Agreement No. CE 48/2011 (EP)
Environmental Project Office for the
HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities,
and Tuen Mun-Chek Lap Kok Link – Investigation**

**Contract No. HY/2013/03 – HZMB HKBCF – Vehicle Clearance Plazas and
Ancillary Buildings and Facilities
Quarterly EM&A Report No.7 for March 2017 to May 2017**

Reference is made to the Environmental Team's submission of Quarterly Environmental Monitoring & Audit Report No.7 for March 2017 to May 2017 certified by the ET Leader (ET's ref.: "MCL/ED/0374/2017/C" dated 4 July 2017) and provided to us via e-mail on 4 July 2017.

We are pleased to inform you that we have no adverse comment on the captioned report. We write to verify the captioned submission in accordance with Section 16.4.1 of the Updated EM&A Manual (2011).

Thank you very much for your attention and please feel free to contact the undersigned should you require further information.

Yours faithfully,
For and on behalf of
Ramboll Environ Hong Kong Limited



Raymond Dai
Independent Environmental Checker

c.c.	HyD	Mr. Vico Cheung	(By Fax: 3188 6614)
	HyD	Mr. Ken Woo	(By Fax: 3188 6614)
	MCL	Mr. Arthur Cheng	(By Fax: 2450 8032)
	CHEC	Mr. Johnason Ko	(By Fax: 2887 3014)

Internal: DY, YH, ENPO Site

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Website : www.materialab-consultant.com

Date 04 July 2017
Our Ref. MCL/ED/0374/2017/C

Ramboll Environ Hong Kong Limited
(formerly ENVIRON Hong Kong Limited)
21/F, BEA Harbour View Centre
56 Gloucester Road, Wan Chai
Hong Kong

BY HAND

Attn.: Mr. Raymond Dai, IEC

Dear Sir,

**Quarterly EM&A Report for March 2017 to May 2017
Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities –
Vehicle Clearance Plazas and Ancillary Buildings and Facilities (Contract No. HY/2013/03)**

Pursuant to Section 16.4 of the updated EM&A Manual for Hong Kong Boundary Crossing Facilities (Version 1.0) covering the captioned contract, we are pleased to submit the certified Quarterly EM&A Report for March 2017 to May 2017 for your verification.

Should you require further information, please do not hesitate to contact our Miss Jamie Tam at 3565 4157 or the undersigned at 3565 4115.

Yours faithfully,
for and on behalf of
MATERIALAB CONSULTANTS LIMITED



Arthur Cheng
Environmental Team Leader

AC/jt

Encl.

c.c. AECOM – Mr. P.K. Lee, Mr. W.S. Ng, Mr. Dominic Mow
RAMBOLL ENVIRON – Mr. Ray Yan, Mr. Andy Wong
CHEC – Mr. Marko Chan

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Report No.: 0165/15/ED/0820

**QUARTERLY ENVIRONMENTAL MONITORING & AUDIT
REPORT**

March 2017 to May 2017

Client: China Harbour Engineering Co., Ltd.

Project: Contract No. HY/2013/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities -
Vehicle Clearance Plazas and
Ancillary Buildings and Facilities

Report No.: 0165/15/ED/0820

Prepared by: Jamie Tam

Reviewed by: Bong Yu

Certified by:


Arthur Cheng
Environmental Team Leader

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Report No.: 0165/15/ED/0820

EXECUTIVE SUMMARY

This Quarterly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2013/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities" (includes the construction works of Contract No. HY/2013/06 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System" within Contract No. HY/2013/03 works area) (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR). The Contract was awarded to China Harbour Engineering Co. Limited (construction works of Contract No. HY/2013/06 was awarded to ATAL Technologies Limited within Contract No. HY/2013/03 works area) (hereafter referred to as "the Contractor") and MaterialLab Consultants Limited (MCL) was appointed as the Environmental Team (ET) by the Contractor.

Contract No. HY/2013/03 (includes the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) is part of the "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities" (HZMB HKBCF) Project which is a "Designated Project" under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499) and for which an EIA Report (Register No. AEIAR-145/2009) was prepared and approved. The current Environmental Permit (EP) for HKBCF, namely No. EP-353/2009/K, was issued on 11 April 2016. These documents are available through the EIA Ordinance Register. Commencement of Contract No. HY/2013/03 took place on 10 April 2015 while the construction works and the EM&A programme of Contract No. HY/2013/03 commenced on 29 August 2015 (commencement of Contract No. HY/2013/06 took place on 14 August 2015 while the construction works and the EM&A programme of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area commenced on 13 September 2016).

MaterialLab Consultants Limited (MCL) has been appointed by the Contractor to implement the Environmental Monitoring & Audit (EM&A) programme for the Contract in accordance with the Updated EM&A Manual for HKBCF (Version 1.0) and will be providing environmental team services for the Contract. This is the 7th Quarterly EM&A Report for the Contract which summaries findings of the EM&A works during the reporting period from 01 March 2017 to 31 May 2017 (includes the findings of the EM&A programme of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area during the reporting period from 01 March 2017 to 31 May 2017) (the "reporting period").

Environmental Monitoring and Audit Progress

The EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKBCF (Version 1.0). It should be noted that the air quality and noise monitoring works for the Contract are covered by Contract No. HY/2010/02 "Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works" and Contract No. HY/2011/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF". The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7, noise monitoring at NMS2 and NMS3B, water quality monitoring at the locations shown in **Figure 3** and ecological monitoring as shown in **Figure 4** and **Figure 5** as part of EM&A programme if these monitoring stations are no longer covered under Contract Nos. HY/2010/02 and HY/2011/03. However, this is subject to ENPO's final decision on which ET should carry out the monitoring work at these stations.

The dates of site inspection for Contract No. HY/2013/03 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) during the reporting period are listed below:

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Environmental Site Inspection:

- 02, 09, 16, 24 and 30 March 2017
- 05, 12, 20 and 28 April 2017
- 05, 11, 18 and 26 May 2017

Breaches of Action and Limit Levels

Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 is reported in the monthly EM&A report prepared by Contract No. HY/2011/03.

There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

There was no Action and Limit Level exceedance for noise recorded at station NMS2 and station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

As silt curtain was installed on 11 May 2017 and therefore, water monitoring result is reported from May. There was no Action and Limit Level exceedance for water quality recorded at the monitoring stations shown at **Table 2.2** by the Environmental Team of Contract No. HY/2010/02 during May.

Ecological monitoring results at all transects are reported in the EM&A report prepared by Contract No. HY/2010/02.

Complaint Log

There were three complaints received in relation to the environmental impact during the reporting period.

Log No.	Environmental Complaint Ref. No.	Date of Complaint Receipt	Description
006	ENPO-C0110	21 March 2017	Water pollution
007	ENPO-C0113	28 March 2017	Noise and water pollution
008	ENPO-C0119	31 May 2017	Air pollution

After investigation, complaint no. 006 cannot be concluded that the captioned complaint was related to Contract No. HY/2013/03 due to lack of information. Complaint No. 007 and 008 were not related to Contract No. HY/2013/03.

Notifications of Summons and Successful Prosecutions

There were no notifications of summons or prosecutions received during this reporting period.

Reporting Changes

Changes on the EM&A programme were justified and verified by the ET Leader for Contract No. HY/2010/02 and the IEC respectively on 24 March 2017, and it was approved by EPD on 12 May 2017. The changes to the EM&A programme for the HKBCF project effective from 15 May 2017 are shown in the following:

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1. Water Quality Monitoring

Current and Alternative WQM Stations

WQM Station	Description	East	North
CS(Mf)3	Control Station	809989	821117
CS(Mf)3(N)	Control Station	808814	822355
SR5	Sensitive receiver (Artificial Reef in NE Airport)	811489	820455
SR5(N)	Sensitive receiver (Artificial Reef in NE Airport)	812569	821475
IS10	Impact Station (Close to HKBCF construction site)	812577	820670
IS10(N)	Impact Station (Close to HKBCF construction site)	812942	820881

Remarks: CS(Mf)3(N), SR5(N) and IS10(N) are alternative WQM Stations.

The locations of current and alternative WQM stations are shown in **Figure 3**.

2. Dolphin Monitoring

Co-ordinates of Vessel-based Transect Lines (changes are marked in red):

Line No.	Easting	Northing
2	Start Point	805476 820800
2	End Point	805476 826654
3	Start Point	806464 821150
3	End Point	806464 822911
4	Start Point	807518 821500
4	End Point	807518 829230
5	Start Point	808504 821850
5	End Point	808504 828602
6	Start Point	809490 822150
6	End Point	809490 825352
7	Start Point	810499 822000
7	End Point	810499 824613
24	Start Point	805476 815900
24	End Point	805476 819100

Remarks: Line No. 24 is a new vessel-based transect line for dolphin monitoring.

The original co-ordinates for the transect lines and layout map before the changes of the EM&A programme are shown in **Figure 4** and the new co-ordinates for the transect lines and layout map after the changes of the EM&A programme with effect from 15 May 2017 are shown in **Figure 5**.

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Report No.: 0165/15/ED/0820

1. INTRODUCTION

1.1 Basic Project Information

1.1.1 This Quarterly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2013/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities" (includes the construction works of Contract No. HY/2013/06 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System" within Contract No. HY/2013/03 works area) (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR). The Contract was awarded to China Harbour Engineering Co. Limited (construction works of Contract No. HY/2013/06 was awarded to ATAL Technologies Limited within Contract No. HY/2013/03 works area) (hereafter referred to as "the Contractor") and MaterialLab Consultants Limited (MCL) was appointed as the Environmental Team (ET) by the Contractor.

1.1.2 Contract No. HY/2013/03 (includes the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) is part of the "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities" (HZMB HKBCF) Project which is a "Designated Project" under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499) and for which an EIA Report (Register No. AEIAR-145/2009) was prepared and approved. The current Environmental Permit (EP) for HKBCF, namely No. EP-353/2009/K, was issued on 11 April 2016. These documents are available through the EIA Ordinance Register. Commencement of Contract No. HY/2013/03 took place on 10 April 2015 while the construction works and the EM&A programme of Contract No. HY/2013/03 commenced on 29 August 2015 (commencement of Contract No. HY/2013/06 took place on 14 August 2015 while the construction works and the EM&A programme of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area commenced on 13 September 2016). The works areas of the contract are shown in **Appendix A**.

1.1.3 This is the 7th Quarterly EM&A Report summarising the findings of EM&A activities conducted under Contract No. HY/2013/03 from 01 March 2017 to 31 May 2017 (from 01 March 2017 to 31 May 2017 for the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) (the "reporting period") and is submitted to fulfil Condition 16.4 of the Updated EM&A Manual for HKBCF.

1.2 Project Organisation

1.2.1 The organisation chart and lines of communication with respect to the on-site environmental management structure together with the contact information of the key personnel are shown in **Appendix B**. The key personnel contact names and numbers are summarized in **Table 1.1** and **Table 1.2**.

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Table 1.1 Contact Information of Key Personnel (for Contract No. HY/2013/03)

Party	Position	Contact Person	Telephone No.	Fax No.
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Mr. W. S. Ng	3958 7400	3902 8800
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Mr. Y. H. Hui	3547 2133	3465 2899
	Independent Environmental Checker (IEC)	Mr. Raymond Dai	3465 2888	3465 2899
	Environmental Site Supervisor	Mr. Ray Yan	5181 8165	3465 2899
Contractor (China Harbour Engineering Co. Ltd)	Site Agent	Mr. Paul Pui	9125 0700	2512 0427
	Environmental Officer	Mr. Marko Chan	9427 2879	2512 0427
Environmental Team (MaterialLab Consultants Limited)	Environmental Team Leader (ETL)	Mr. Arthur Cheng	3565 4115	2450 8032
24-hr Complaint Hotline	--	--	5236 7111	--

Table 1.2 Contact Information of Key Personnel (for Contract No. HY/2013/06 within Contract No. HY/2013/03 works area)

Party	Position	Contact Person	Telephone No.	Fax No.
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Mr. W. S. Ng	3958 7400	3902 8800
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Mr. Y. H. Hui	3547 2133	3465 2899
	Independent Environmental Checker (IEC)	Mr. Raymond Dai	3465 2888	3465 2899
	Environmental Site Supervisor	Mr. Ray Yan	5181 8165	3465 2899
Contractor (ATAL Technologies Limited)	Site Agent	Mr. Eric Yim	2565 3355	3162 5217
	Environmental Officer	Mr. W. Li	2565 3137	3162 5217
Environmental Team (MaterialLab Consultants Limited)	Environmental Team Leader (ETL)	Mr. Arthur Cheng	3565 4115	2450 8032
24-hr Complaint Hotline	--	--	6509 0375	--

1.3 Construction Programme

- 1.3.1 The construction programme for Contract No. HY/2013/03 (includes the construction works of HY/2013/06 within Contract No. HY/2013/03 works area) are provided in **Appendix C**.

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1.4 Construction Works undertaken during the Reporting Period

1.4.1 A summary of the construction activities undertaken during this reporting period is shown below:

For Contract No. HY/2013/03

March 2017

1. Building at Portion A1, B, G, N, J, STP & Pumping Stations;
2. Piling at Box Culvert B & Sign Gantry;
3. CUE Construction at Portion B, C & J;
4. Drainage & Sewerage Work, Water Main & Cable Duct at Portion B, H1, H2, J, P, G & A1;
5. Radiation Screen Wall at Portion B, E P, N,M,C;
6. Sign Gantry Footing at Portion B;
7. Sewerage Pumping Station, High Mast Lighting Foundation & Box Culvert C at Portion G;
8. Bridge Works at A1 to A9;
9. Site Foundation Works at Portion K;
10. Cover Walkway at Portion H1 & H2;
11. Box Culvert B at Portion N; Shuttle kiosk & Subway at Portion E; and
12. Marine sediment excavation activities from the land-based works and corresponding disposal at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee.

April 2017

1. Building at Portion A1, B, G, N, J, STP & Pumping Stations;
2. Piling at Box Culvert B & Sign Gantry;
3. CUE Construction at Portion B, C & J;
4. Drainage & Sewerage Work, Water Main & Cable Duct at Portion B, H1, H2, J, P, G & A1;
5. Radiation Screen Wall at Portion B, E P, N,M,C;
6. Sign Gantry Footing at Portion B;
7. Sewerage Pumping Station, High Mast Lighting Foundation & Box Culvert C at Portion G;
8. Bridge Works at A1 to A9;
9. Site Foundation Works at Portion K;
10. Cover Walkway at Portion H1 & H2;
11. Box Culvert B at Portion N; Shuttle kiosk & Subway at Portion E); and
12. Marine sediment excavation activities from the land-based works and corresponding disposal at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee.

May 2017

1. Building at Portion A1, B, G, N, J, STP & Pumping Stations;
2. Piling at Box Culvert B & Sign Gantry;
3. CUE Construction at Portion B, C & J;
4. Drainage & Sewerage Work, Water Main & Cable Duct at Portion B, H1, H2, J, P, G & A1;
5. Radiation Screen Wall at Portion B, E P, N,M,C;
6. Sign Gantry Footing at Portion B;

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7. Sewerage Pumping Station, High Mast Lighting Foundation & Box Culvert C at Portion G;
8. Bridge Works at A1 to A9;
9. Site Foundation Works at Portion K;
10. Cover Walkway at Portion H1 & H2;
11. Box Culvert B at Portion N; Shuttle kiosk & Subway at Portion E;
12. Marine sediment excavation activities from the land-based works and corresponding disposal at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee; and
13. Deployment, maintenance and inspection of silt curtain.

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

March 2017

1. Wiring and installation of services conduit at Building 037 and CUE works area.

April 2017

1. Conceal conduit & services conduit installation at Building 037 and CUE works area.

May 2017

1. Conduit & display panel installation at Building 037 and CUE works area.

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2. EM&A REQUIREMENTS

2.1 Summary of EM&A Requirements

2.1.1 The EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKBCF (Version 1.0). It should be noted that the air quality and noise monitoring works for the Contract are covered by Contract No. HY/2010/02 "Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works" and Contract No. HY/2011/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF". The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7 and noise monitoring at NMS2 and NMS3B, water quality monitoring at the locations shown in **Figure 3** and ecological monitoring as shown in **Figure 4** and **Figure 5** as part of EM&A programme if these monitoring stations are no longer covered under Contract Nos. HY/2010/02 and HY/2011/03. However, this is subject to ENPO's final decision on which ET should carry out the monitoring work at these stations.

The ET of the Contract or another ET of the HZMB project is required to conduct impact ecological monitoring at 24 transects as part of EM&A programme if these transects are no longer covered under Contract No. HY/2010/02. The impact ecological monitoring should adopt line-transect vessel survey method. The survey follows pre-set and fixed transect lines in the two areas defined by AFCD as: Northeast Lantau survey area and Northwest Lantau survey area. Changes of the EM&A programme were effective from 15 May 2017. **Figure 4** shows the original co-ordinates for the transect lines and layout map before the changes of the EM&A programme and **Figure 5** shows the new co-ordinates for the transect lines and layout map after the changes of the EM&A programme with effect from 15 May 2017.

2.1.2 A summary of air and noise monitoring locations are presented in **Table 2.1**. The location of air quality and noise monitoring stations are shown as in **Figure 1** and **Figure 2**, respectively.

Table 2.1 Air Quality and Noise Monitoring Locations

Environmental Monitoring	Identification No.	Location Description
Air Quality	AMS6(1)	Dragonair/CNAC (Group) Building (A80)
	AMS7(1)	Hong Kong SkyCity Marriott Hotel
Noise	NMS2(2)	Seaview Crescent
	NMS3B(2) (3)	Site Boundary of Site Office Area at WA2

Remarks:

- (1) The ET of this Contract should conduct impact air quality monitoring at the AMS listed in the table as part of EM&A programme according to latest notification from ENPO when the monitoring station(s) is/are no longer covered by another ET of the HZMB project.
- (2) The ET of this Contract should conduct impact noise monitoring at the NMS listed in the table as part of EM&A programme according to the latest notification from ENPO when the monitoring station(s) is/are no longer covered by another ET of the HZMB project.
- (3) The Action and Limit Levels for schools will be applied for this alternative monitoring location.

2.1.3 Changes on the EM&A programme were effective from 15 May 2017. A summary of the original and updated water quality monitoring stations are presented in **Table 2.2**. The location of water quality monitoring stations are shown as in **Figure 3**.

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Table 2.2 Water Quality Monitoring Stations

Station	Description	East	North
IS5	Impact Station (Close to HKBCF construction site)	811579	817106
IS(Mf)6	Impact Station (Close to HKBCF construction site)	812101	817873
IS7	Impact Station (Close to HKBCF construction site)	812244	818777
IS8	Impact Station (Close to HKBCF construction site)	814251	818412
IS(Mf)9	Impact Station (Close to HKBCF construction site)	813273	818850
IS10	Impact Station (Close to HKBCF construction site)	811489	820455
IS10(N) ⁽³⁾	Impact Station (Close to HKBCF construction site)	812569	821475
IS(Mf)11	Impact Station (Close to HKBCF construction site)	813562	820716
IS(Mf)16	Impact Station (Close to HKBCF construction site)	814328	819497
IS17	Impact Station (Close to HKBCF construction site)	814539	820391
SR3	Sensitive receivers (San Tau SSSI)	810525	816456
SR4(N)	Sensitive receivers (Tai Ho)	814705	817859
IS(Mf)11	Impact Station (Close to HKBCF construction site)	813562	820716
SR5(N) ⁽³⁾	Control Station	812569	821475
SR6	Sensitive receivers (Sha Chau and Lung Kwu Chau Marine Park)	805837	821818
SR7	Sensitive receivers (Tai Mo Do)	814293	821431
SR10A ⁽¹⁾	Sensitive receivers(Ma Wan FCZ) 1	823741	823495
SR10B(N) ⁽¹⁾	Sensitive receivers(Ma Wan FCZ) 2	823683	823187
CS(Mf)3	Control Station	809989	821117
CS(Mf)3(N) ⁽³⁾	Control Station	808814	822355
CS(Mf)5	Control Station	817990	821129
CS4	Control Station	810025	824004
CS6	Control Station	817028	823992
CSA ⁽²⁾	Control Station	818103	823064

Note:

⁽¹⁾ Additional monitoring station for Ma Wan FCZ

⁽²⁾ Additional control monitoring station for Ma Wan FCZ

⁽³⁾ CS(Mf)3(N), SR5(N) and IS10(N) are alternative WQM Stations which replaced current WQM Stations CS(Mf)3, SR5 and IS10 respectively from 15 May 2017

Remarks:

The ET of the Contract should conduct impact water quality monitoring at the WQMs listed in the table as part of EM&A programme according to latest notification from ENPO if water quality monitoring is no longer covered by another ET of the HZMB project. The ET of the Contract shall communicate and share the monitoring data to the ET(s) of the other contracts if the water quality monitoring station(s) is/are as part of EM&A programme.

2.2 Monitoring Requirements

2.2.1 The monitoring requirements, monitoring equipment, monitoring parameters, frequency and duration, monitoring methodology, monitoring schedule, meteorological information are detailed in the monthly EM&A Reports prepared for Contract Nos. HY/2010/02 and HY/2011/03.

2.3 Action and Limit Levels

2.3.1 The Action and Limit Levels for 1-hr TSP and 24-hr TSP are provided in Table 2.3 and Table 2.4 respectively.

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Table 2.3 Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AMS6	360	500
AMS7	370	

Table 2.4 Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AMS6	173	260
AMS7	183	

2.3.2 The Action and Limit Levels for construction noise are defined in **Table 2.5**.

Table 2.5 Action and Limit Level for Construction Noise

Monitoring Station	Action Level	Limit Level
For the Time Period 0700-1900 hrs. on Normal Weekdays		
NMS2	When one documented complaint is received	75.0 dB (A) Leq (30 min.)
NMS3B		70.0 dB (A) Leq (30 min.)*

Notes:

If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

* Reduce to 70 dB(A) for schools and 65 dB(A) during school examination period.

2.3.3 The Action and Limit Levels for Water Quality are provided in **Table 2.6**.

Table 2.6 Action and Limit Levels for Water Quality

Parameters	Action	Limit
DO in mg/L (Surface, Middle & Bottom)	Surface and Middle 5.0 Bottom 4.7	Surface and Middle = 4.2 (except 5 mg/L for FCZ) Bottom = 3.6
SS in mg/L (depth-averaged) at all monitoring stations and control stations	23.5 and 120% of upstream control station's SS at the same tide of the same day*	34.4 and 130% of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes*
Turbidity in NTU (depth-averaged)	27.5 and 120% of upstream control station's turbidity at the same tide of the same day*	47.0 and 130% of upstream control station's turbidity at the same tide of the same day*

* Remarks: Reference is made to EPD approval of adjustment of water quality assessment criteria issued and became effective on 18 February 2013.

- Notes:
- "depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
 - For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
 - For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
 - All the figures given in the table are used for reference only and the EPD may amend the figures whenever it is considered as necessary.
 - The 1%-ile of baseline data for dissolved oxygen (surface and middle) and dissolved oxygen (bottom) are 4.2mg/L and 3.6mg/L respectively.

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2.3.4 The Action and Limit Levels for Ecological Monitoring are provided in **Table 2.7** and **Table 2.8**.

Table 2.7 Action and Limit Levels for Ecological Monitoring - Approach to Define Action Level (AL) and Limit Level (LL)

	North Lantau Social Cluster	
	NEL	NWL
Action Level	(STG < 70% of baseline) & (ANI < 70% of baseline)	(STG < 70% of baseline) & (ANI < 70% of baseline)
Limit Level	[(STG < 40% of baseline) & (ANI < 40% of baseline)] AND [(STG < 40% of baseline) & (ANI < 40% of baseline)]	

For North Lantau Social Cluster, action level will be trigger if either NEL or NWL fall below the criteria; limit level will be triggered if both NEL and NWL fall below the criteria.

Table 2.8 Derived Value of Action Level (AL) and Limit Level (LL) for Ecological Monitoring

	North Lantau Social Cluster	
	NEL	NWL
Action Level	(STG < 4.2) & (ANI < 15.5)	(STG < 6.9) & (ANI < 31.3)
Limit Level	[(STG < 2.4) & (ANI < 8.9)] AND [(STG < 3.9) & (ANI < 17.9)]	

The ET of this Contract should conduct impact ecological monitoring as part of EM&A programme according to latest notification from ENPO when the monitoring transect(s) is/are no longer covered by another ET of the HZMB project.

2.3.5 If exceedance(s) at these transect(s) is/are recorded by the ET of the Contract or referred by the other ET under the HZMB project to the Contract, the ET of the Contract will carry out an investigation and findings will be reported in the quarterly EM&A Report.

2.4 Event and Action Plans

2.4.1 The event and action plans are provided in **Appendix D**.

2.5 Mitigation Measures

2.5.1 Environmental mitigation measures for the contract were recommended in the approved EIA Report. **Appendix E** lists the recommended mitigation measures and the implementation status.

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3. ENVIRONMENTAL MONITORING AND AUDIT

3.1 Air Quality Monitoring Results

- 3.1.1 The monitoring results for AMS6 and AMS7 are reported in the monthly EM&A Reports (for March 2017, April 2017 and May 2017) prepared for Contract Nos. HY/2011/03 and HY/2010/02 respectively.
- 3.1.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 is reported in the monthly EM&A Reports (for March 2017, April 2017 and May 2017) prepared by Contract No. HY/2011/03.
- 3.1.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

3.2 Noise Monitoring Results

- 3.2.1 The monitoring results for NMS2 and NMS3B are reported in the monthly EM&A Reports (for March 2017, April 2017 and May 2017) prepared for Contract No. HY/2010/02.
- 3.2.2 No noise exceedances were recorded at stations NMS2 and NMS3B by the ET of Contract No. HY/2010/02 during the reporting period.

3.3 Water Quality Monitoring Results

- 3.3.3 As silt curtain was installed on 11 May 2017 and therefore, monitoring result is reported from May 2017. The monitoring results for the monitoring stations shown in **Table 2.2** were reported in the monthly EM&A Report (for May 2017) prepared for Contract No. HY/2010/02. There was no Action and Limit Level exceedance recorded by the Environmental Team of Contract No. HY/2010/02 during May.

3.4 Ecology Monitoring Results

- 3.4.1 As silt curtain was installed on 11 May 2017 and therefore, monitoring result is reported from May 2017. The dolphin survey results for all transects were reported in the monthly EM&A Reports (for May 2017) prepared by Contract No. HY/2010/02. One limit level exceedance was recorded in the monitoring period (March 2017 to May 2017).
- 3.4.2 During this reporting period, silt curtain was installed by Contract No. HY/2013/03. After checking the Marine Travel Routes record provided by the Contractor, there were twenty-two and forty-four trips of barges recorded on April and May 2017 in the reporting period. All marine transportation recorded were restricted and followed the Regular Marine travel Route Plan. Training of marine travel route for marine vessels operator was given to relevant staff and all barges recorded during the reporting period were travelled in regular travel routes.
- 3.4.3 The exceedance is still under investigation by Contract No. HY/2010/02. The investigation report (including the causes of exceedance, action taken and recommendation for mitigation) for Action or Limit Level Non-compliance will be prepared by the ET of Contract No. HY/2010/02 and detailed in the quarterly EM&A Report prepared for Contract No. HY/2010/02. The implementation of Regular Marine Travel Route Plan for the above

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mentioned barges of marine transportation undertaken by Contract No. HY/2013/03 during the reporting period were checked by the ET. The Regular Marine Travel Route Plan were prepared and given to marine vessels operators to use in order to minimize the chance of vessel collision and the routes would not go through the dolphin hotspot in Brothers Islands.

3.5 Implementation of Environmental Measures

3.5.1 In response to the site audit findings, the Contractor carried out corrective actions. Details of site audit findings and the corrective actions during the reporting period are presented in **Appendix F**.

3.5.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix E**. All necessary mitigation measures at this stage of works were implemented properly.

3.5.3 Implementation status of Regular Marine Travel Route Plan (RMTRP) was checked by ET. Training of marine travel route for marine vessels operator was given to relevant staff and relevant records were kept properly. Marine traffic records which indicated the number of trips data for pelican barge, hopper barge, tug boat, floating concrete batching plant and derrick lighter on the implementation of RMTRP from March 2017 to May 2017 were checked by ET. Marine traffic records of March 2017, April 2017 and May 2017 were provided by Contractor to ER, IEC/ENPO for checking within the month of April 2017, May 2017 and June 2017 respectively. The implementation of marine traffic follows the Regular Marine Travel Route Plan with respect to ET's checking on the marine traffic records for the reporting period.

3.5.4 With respect to condition 3.26A of EP-353/2009/K approved by EPD on 11 April 2016, the numbers and operating periods of floating grout production facilities and floating concrete batching plants on-site to review on the compliance to this EP condition were checked. Under Contract No. HY/2013/03, one floating concrete batching plant was operated on-site during March 2017 and no floating concrete batching plant was operated on-site during April and May 2017.

3.5.5 As silt curtain was installed on 11 May 2017, Dolphin Watching Plan (DWP) should be implemented. Implementation status of DWP was checked by ET. Before the installation of silt curtain, ET conducted visual inspection of the presence of dolphins in the surrounding water. Besides, dolphin watching training was provided to the representatives of the Contractor during April 2017. The records of dolphin watching training, regular inspection of the silt curtains and visual inspection of waters surrounded by the silt curtain in May 2017 would be provided to ER, ETL, IEC/ENPO for checking within the month of June 2017.

3.6 Advice on the Solid and Liquid Waste Management Status

3.6.1 The Contractor of Contract No. HY/2013/03 registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.

3.6.2 No extracted marine sediment was treated using cement solidification/stabilisation (Cement S/S) techniques under Contract No. HY/2013/03 during this reporting period. The marine sediment extracted from this Contract was disposed to the Marine Fill Committee (MFC) allocated disposal sites directly without treatment during this reporting period. As a practical mean, the disposal operation is managed by one contractor who is also responsible for

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applying dumping permit and its subsequent extension applications from EPD. Contract No. HY/2013/03 has been assigned to coordinate and arrange for disposal of extracted marine sediment from all three Contracts (Contract Nos. HY/2013/02, HY/2013/03 and HY/2013/04).

- 3.6.3 The barge for disposal of marine sediment was morn at the temporary loading and unloading at the east shore of the HKBCF Island, which has been being used by reclamation contractor (Contract No. HY/2010/02) for reclamation activities. In terms of safety consideration and to avoid mixing of sediment between contracts, each dumping date was allocated to one Contract. The quantity of marine sediment disposed on each date was from one Contract.
- 3.6.4 During dumping, Contractor of Contract No. HY/2013/03 is responsible for transporting the marine sediment from the site area of Contract No. HY/2013/03 to the barge. The estimated quantity of marine sediment in each truck is confirmed by Resident Site Staff of Contract Nos. HY/2013/02, HY/2013/03 and HY/2013/04. The trip tickets for transportation and disposal of marine sediment are collected and checked. Contract No. HY/2013/03 as the dumping permit holder is responsible for reporting to EPD the quantity disposed of as the condition stipulated in the dumping permit. The disposal site allocated to this Project are the Mud Pit CMP Vd of the Confined Marine Sediment Disposal Facility to the East of Sha Chau (ESC) during this reporting period.
- 3.6.5 Marine sediment extracted from bored piling from this Contract was disposed to allocated dumping site during this reporting period. The summary of marine sediment disposed during this reporting period is shown in the following table:

Table 3.1 Summary of Marine Sediment Disposed to Dumping Site

Month/Year	Quantity disposed (in'000m ³)			Total
	HY/2013/02	HY/2013/03	HY/2013/04	
March 2017	0	0	0	0
April 2017	0.624	1.288	0	1.912
May 2017	0	1.440	0	1.440
Total	0.624	2.728	0	3.352

- 3.6.6 The summary of waste flow table for Contract No. HY/2013/03 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) is detailed in **Appendix G**.
- 3.6.7 Contract No. HY/2013/03 has been assigned to arrange for delivery of surplus filling materials from Contract No. HY/2013/03 to Tuen Mun - Chek Lap Kok Link (TM-CLKL) project of HZMB by marine access from May 2017. The estimated quantity of surplus filling materials is confirmed by Resident Site Staff of Contract No. HY/2013/03. The summary of surplus filling materials delivered to TM-CLKL project up to the end of May 2017 is shown in **Table 3.2**.

Table 3.2 Summary of Surplus Filling Materials Delivered to TM-CLKL Project

Month/Year	Quantity disposed (in '000m ³)
	HY/2013/03
May 2017	12.637
Total	12.637

Note:

The disposal quantity of surplus filling materials provided by Resident Site Staff is in tonnes (for Contract No. HY/2013/03: 29,065 tonnes). In order to convert the disposal quantity from tonnes to m³, a conversion factor is used and shown as follows:

Volume (in m³) = Mass (in tonnes) / 2.3 (in tonnes/ m³)

Where 2.3 (in tonnes/ m³) is the density of surplus filling materials provided by the Contractor

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3.6.8 Contractor of Contract No. HY/2013/03's site arrangement for disposal of bentonite slurry to Tseung Kwan O Area 137 Fill Bank was checked by ET and formal consent has been obtained from Tseung Kwan O Area 137 Fill Bank for receiving used bentonite slurry generated from Contract No. HY/2013/03.

3.7 Environmental Licences and Permits

3.7.1 The valid environmental licences and permits for Contract No. HY/2013/03 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) during the reporting period are summarized in **Appendix H**. The Contractor of Contract No. HY/2013/06 was advised to register as a chemical waste producer when chemical waste is expected to generate for the foreseeable future from the operations (For Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation).

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4. SUMMARY OF EXCEEDANCES, COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTION

4.1 Summary of Exceedance of the Environmental Quality Performance Limit

4.1.1 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 is reported in the monthly EM&A Reports (for March, April and May 2017) prepared by Contract No. HY/2011/03.

4.1.2 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

4.1.3 There was no Action and Limit Level exceedance for noise recorded at station NMS2 and station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

4.1.4 As silt curtain was installed on 11 May 2017 and therefore, water monitoring result is reported from May. There was no Action and Limit Level exceedance for water quality recorded at the monitoring stations shown at **Table 2.2** by the Environmental Team of Contract No. HY/2010/02 during May.

4.1.5 Ecological monitoring results at all transects are reported in the EM&A report (for May 2017) prepared by Contract No. HY/2010/02.

4.2 Summary of Complaints, Notification of Summons and Successful Prosecution

4.2.1 There were three complaints received in relation to the environmental impact during the reporting period. The summary of environmental complaints is presented in **Table 4.1**. The details of cumulative statistics of Environmental Complaints are provided in **Appendix I**.

Table 4.1 Summary of Environmental Complaints for the Reporting Period

Log No.	Environmental Complaint Ref. No.	Date of Complaint Receipt	Description
006	ENPO-C0110	21 March 2017	Water pollution
007	ENPO-C0113	28 March 2017	Noise and water pollution
008	ENPO-C0119	31 May 2017	Air pollution

(a) 21 March 2017 (Log No. 006)

The complaint was received by EPD from a member of the public on 21 March 2017. The complainant complained about the construction site at the east of HZMB artificial island in Tung Chung which was belonged to Dragages Hong Kong. The construction site discharged waste water into open water frequently in the evening causing ecological pollution.

Due to lack of information, The ET of Contract No. HY/2013/03 (including Contract No. HY/2013/06 within Contract No. HY/2013/03) cannot conclude that the captioned complaint is related to the construction activities of our contract. Nevertheless, the Contractor had been reminded to comply with the requirements stipulated in the Environmental Mitigation Implementation Schedule (EMIS) of the EM&A Manual, in particular:

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- Water Quality

- W2: Land Work

- Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters

(b) 28 March 2017 (Log No. 007)

The complaint was received by EPD from a member of the public who lived in Century Link on 27 March 2017. The complainant complained that starting from around 10pm to midnight on 27 March 2017, there were loud noise outside. By observation, the noise should come from the construction of artificial island of HZMB. Besides, in the morning on 28 March 2017, water pollution was observed in the sea outside which should result from HZMB project.

After investigation, The ET of Contract No. HY/2013/03 (including Contract No. HY/2013/06 within Contract No. HY/2013/03) concluded that the captioned complaint is not related to the construction activities of our contract. Nevertheless, the Contractor had been reminded to comply with the requirements stipulated in the Environmental Mitigation Implementation Schedule (EMIS) of the EM&A Manual, in particular:

Construction Noise (air borne):

N1: Use of good site practices to limit noise emissions: machines and plants (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; and

N5: sequencing operation of construction plants where practicable.

Water Quality

W1:

- Loading of barges and hoppers shall be controlled to prevent splashing of dredged material to the surrounding water. Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation;
- Any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes;
- The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site.

W2: Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters.

(c) 31 May 2017 (Log No. 008)

The complaint was received by EPD from a member of the public on 31 May 2017. The complainant complained that as there was no watering for dust suppression on the road next to Building 044 and 045 on the artificial island of HZMB, a lot of dust was raised when vehicles passed by causing serious nuisance.

After investigation, The ET of Contract No. HY/2013/03 (including Contract No. HY/2013/06 within Contract No. HY/2013/03) concluded that the captioned complaint is not related to the construction activities of Contract No. HY/2013/03. Nevertheless, the Contractor had been reminded to discuss and reach a written agreement with the Contractor of Buildings 044 and

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045 about the responsibility of maintaining the road next to Buildings 044 and 045. The Contractor had also been reminded to fulfil the conditions set out in the EP, in particular:

- Condition 3.23:

The Permit Holder shall undertake watering at least 8 times per day on all exposed soil within the Project site and associated work areas throughout the construction phase.

The Contractor had also been reminded to comply with the requirements stipulated in the Environmental Mitigation Implementation Schedule (EMIS) of the EM&A Manual, in particular:

- Air Quality:

A3: The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase. The complaint was still under investigation. Details will be reported in the coming reporting period.

4.2.2 No notification of summons or prosecutions was received during the reporting period.

4.2.3 Statistics on notifications of summons and successful prosecutions are summarized in **Appendix I**.

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5. COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

5.1 Comments

5.1.1 According to the environmental site inspections undertaken during the reporting period, the following recommendations were provided:

For Contract No. HY/2013/03

1. CHEC was reminded to remove stagnant water accumulated on site;
2. CHEC was reminded to remove general refuse accumulated on site;
3. CHEC was reminded to provide drip trays for chemical containers;
4. CHEC was reminded to increase watering for dust suppression on site;
5. CHEC was reminded to provide drip trays for generators and air compressors;
6. CHEC was reminded to remove food waste on site;
7. CHEC was reminded to improve housekeeping.

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

- No recommendation.

5.1.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix E**. All necessary mitigation measures at this stage of works were implemented properly.

5.2 Recommendations

5.2.1 With implementation of the recommended environmental mitigation measures, the contract's environmental impacts were considered environmentally acceptable. The weekly environmental site inspections ensured that all the environmental mitigation measures recommended were effectively implemented.

5.2.2 The recommended environmental mitigation measures, as included in the EM&A programme, effectively minimize the potential environmental impacts from the contract. Also, the EM&A programme effectively monitored the environmental impacts from the construction activities and ensure the proper implementation of mitigation measures. No particular recommendation was advised for the improvement of the programme.

5.3 Conclusions

5.3.1 Commencement of Contract No. HY/2013/03 took place on 10 April 2015 and the construction works of Contract No. HY/2013/03 commenced on 29 August 2015 (commencement of Contract No. HY/2013/06 took place on 14 August 2015 and the construction works of Contract No. HY/2013/06 commenced on 13 September 2016 within Contract No. HY/2013/03 works area). This is the 7th Quarterly EM&A Report summarising the findings of EM&A activities conducted under Contract No. HY/2013/03 from 01 March 2017 to 30 May 2017 (includes the findings of EM&A activities conducted under Contract No. HY/2013/06 within Contract No. HY/2013/03 works area from 01 March 2017 to 30 May 2017).

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- 5.3.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A Reports (for March, April and May 2017) prepared by Contract No. HY/2011/03.
- 5.3.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 5.3.4 There was no Action and Limit Level exceedance for noise recorded at station NMS2 and station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 5.3.5 As silt curtain was installed on 11 May 2017 and therefore, water monitoring result is reported from May. There was no Action and Limit Level exceedance for water quality recorded at the monitoring stations shown at **Table 2.2** by the Environmental Team of Contract No. HY/2010/02 during May.
- 5.3.6 Ecological monitoring results at all transects are reported in the EM&A report prepared by Contract No. HY/2010/02.
- 5.3.7 Environmental site inspection was carried out on 2, 9, 16, 24 and 30 March 2017, 5, 12, 20, and 28 April 2017 and 5, 11, 18 and 26 May 2017 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area). Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.
- 5.3.8 There were three complaints received in relation to the environmental impact during the reporting period. After investigation, one complaint cannot be concluded that the captioned complaint was related to Contract No. HY/2013/03 due to lack of information. The second and third complaints were not related to Contract No. HY/2013/03.
- 5.3.9 There were no notifications of summons or prosecutions received during the reporting period.

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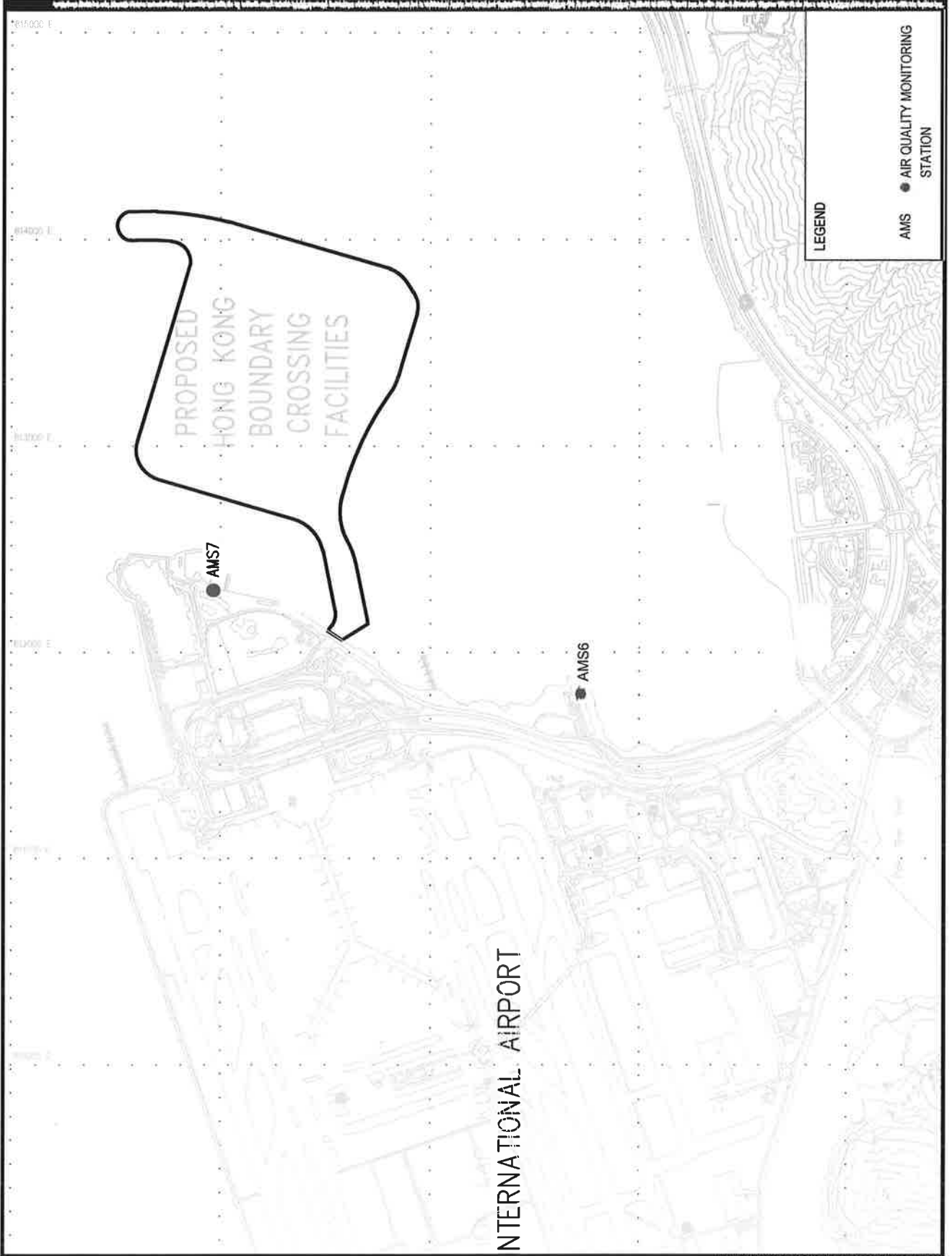
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Figure 1

Air Quality Monitoring Stations



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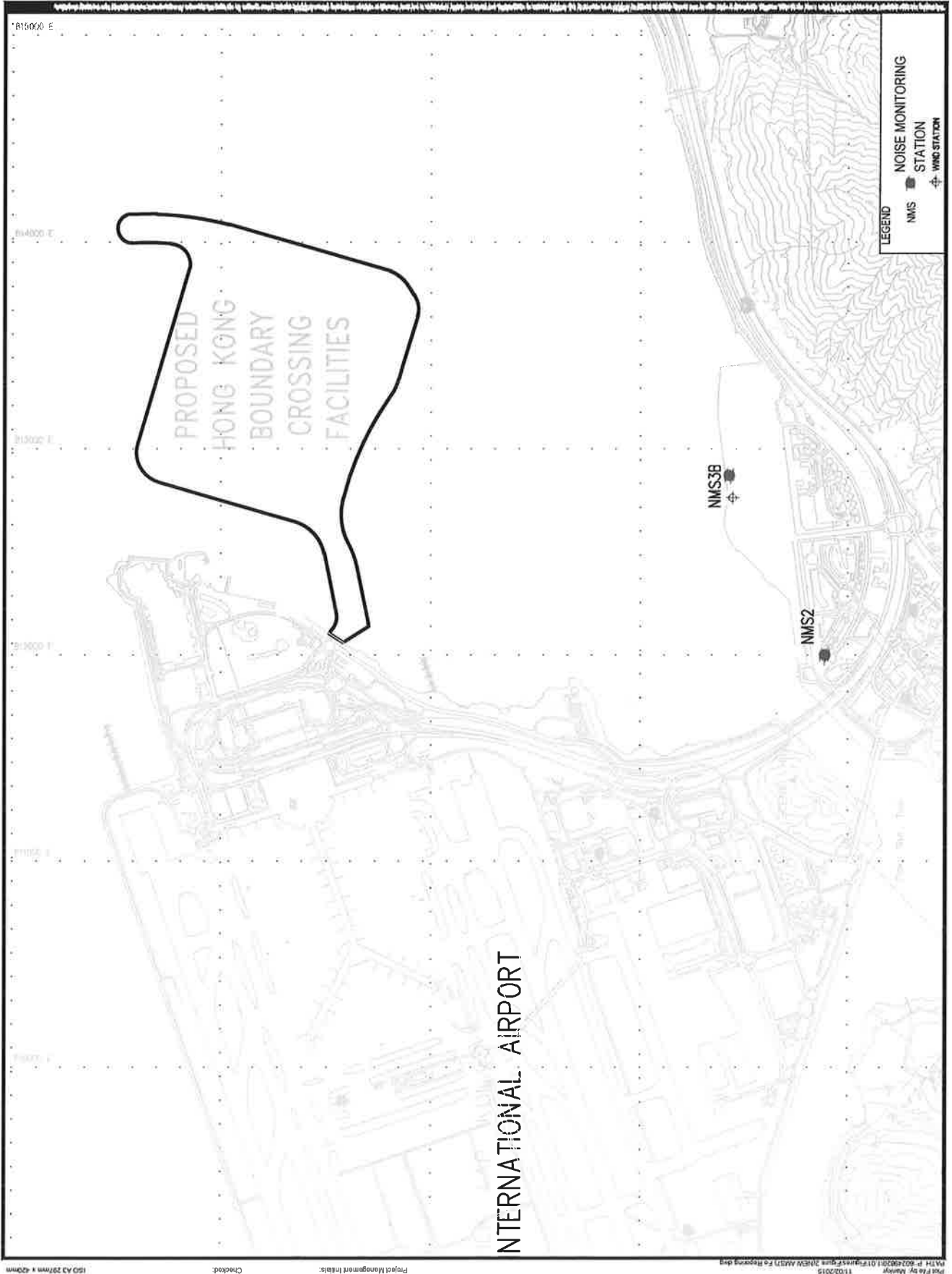
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Figure 2

Noise Monitoring Stations



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Figure 3

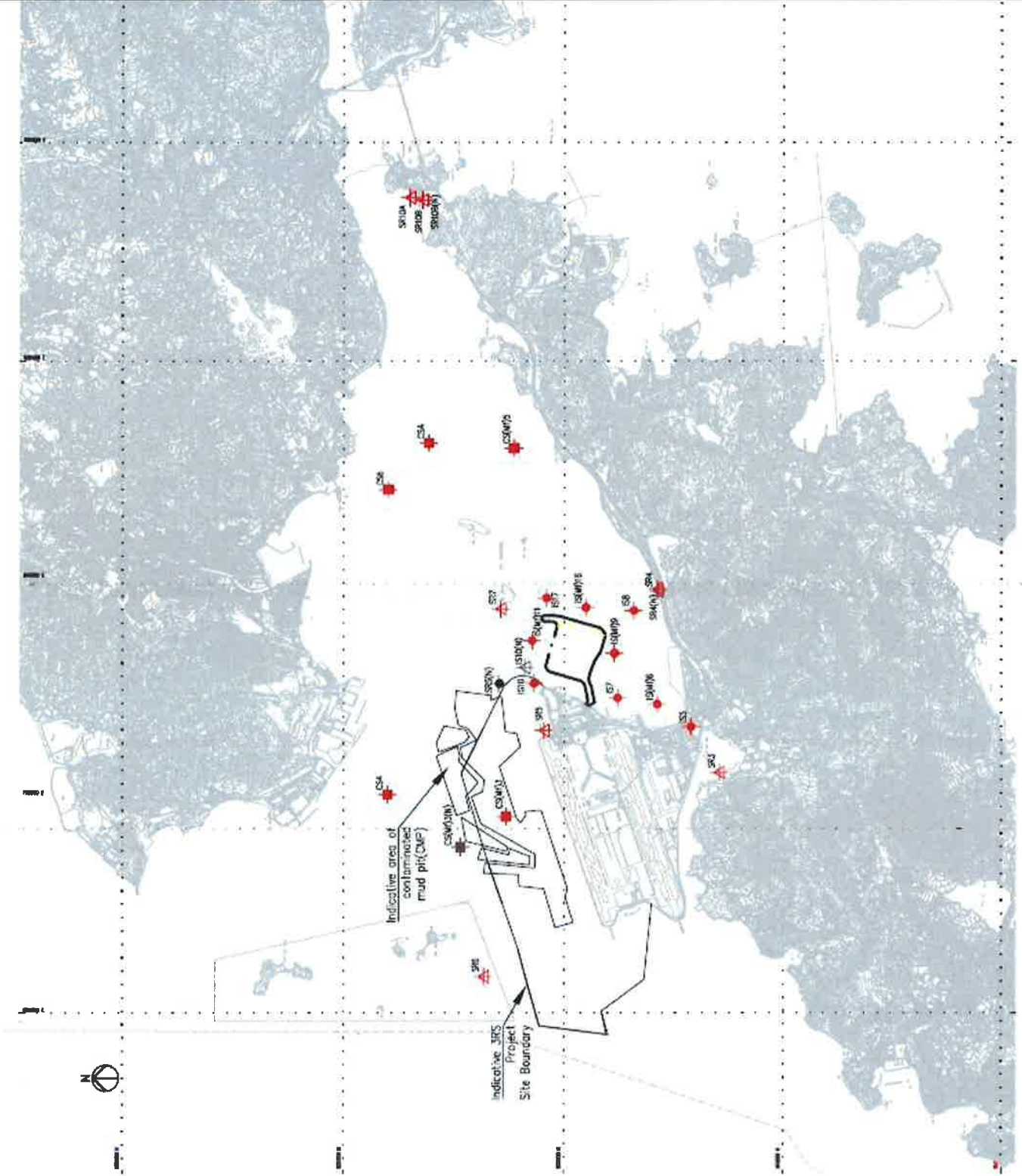
Water Quality Monitoring Stations

LEGEND

- IS IMPACT STATIONS
- CS CONTROL / FAR FIELD STATIONS
- SR SENSITIVE RECEIVERS STATIONS
- IS IMPACT STATIONS (RELOCATED)
- SR SENSITIVE RECEIVERS STATIONS (RELOCATED)
- CS CONTROL / FAR FIELD STATIONS (RELOCATED)

SETTING OUT SCHEDULE

MONITORING STATIONS	CO-ORDINATES	
	EASTING	NORTHING
IS3	811579	817066
ISM76	862108	817873
IS7	812244	818777
IS8	814251	818412
ISM78	813273	818850
SR5(N)	812580	824475
ISM71	813562	820716
ISM716	814328	818497
IS17	814638	820391
SR3	810525	816458
SR4(N)	814785	817859
IS10(N)	862542	828881
SR6	804037	821818
SR7	814293	821431
SR10A	823741	823485
SR10B(N)	823583	823887
CS(M)2(N)	808814	822355
CS(M)5	817990	821129
CS4	810025	824004
CS8	817028	823942
CSA	818103	823064
CS10	812577	820870
SR5	811488	820455
CS(M)13	809889	821117



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Figure 4

Original Ecological Monitoring Transect Line and Layout Map before the Changes of EM&A Programme



Remarks:

*Transect 10 is now 3.6km in length due to the HKBCF construction site.

^Coordinates for transect lines 1, 2, 7, 8, 9 and 11 have been updated in respect to the Proposal for Alteration of Transect Line for Dolphin Monitoring approved by EPD on 19 August 2015. The total transect length for both NEL and NWL combined is 108km.

Dolphin Monitoring Transect Line and Layout Map

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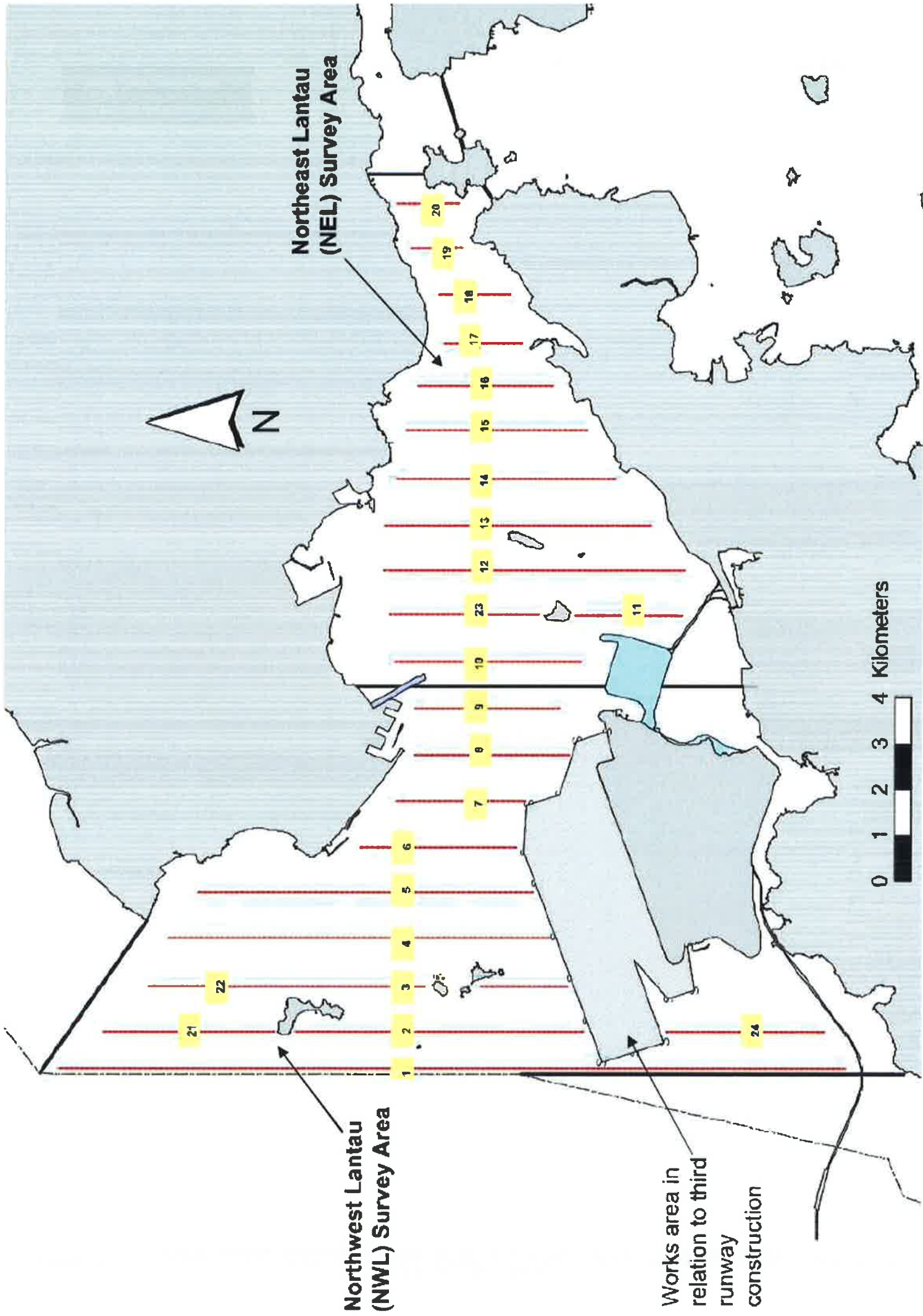
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Figure 5

New Ecological Monitoring Transect Line and Layout Map after the Changes of EM&A Programme



Northeast Lantau
(NEL) Survey Area



Northwest Lantau
(NWL) Survey Area

Works area in
relation to third
runway
construction

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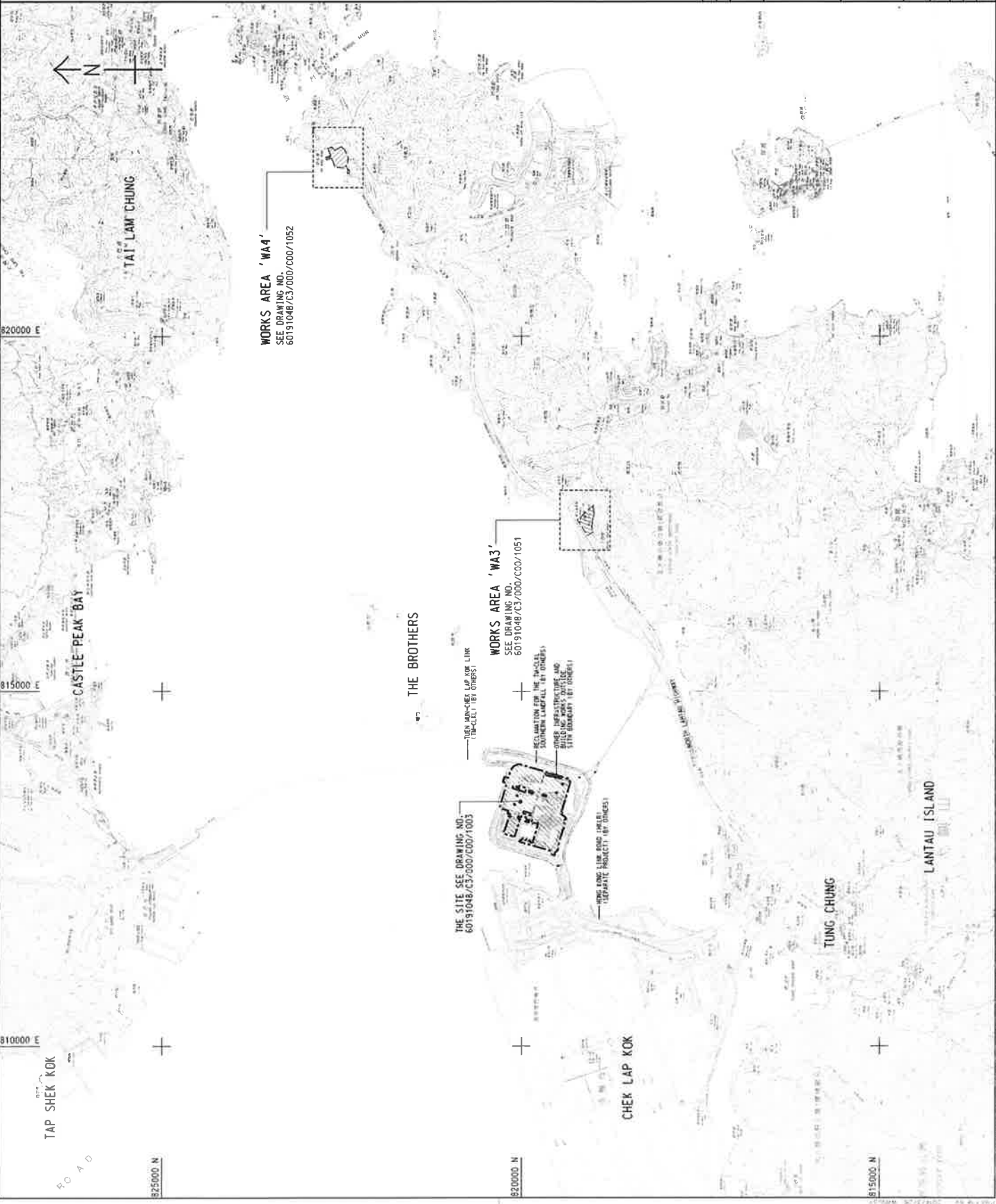
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Appendix A

Location of Works Areas



NOTES:

1. COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1950).
2. DIMENSIONS ARE IN MILLIMETER AND DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
3. THIS DRAWING IS A PRELIMINARY DESIGNATION ONLY DRAWING NO. 60191048/C3/000/C00/1052 TO 1053.

LEGEND:



NO.	REVISION	DATE	BY	CHECKED
1	ISSUED FOR TENDER DRAWING	20/11/14	WY	WY
2	REVISED	20/11/14	WY	WY
3	REVISED	20/11/14	WY	WY



WORKS AREA 'WA4' - SITE OF THE BRIDGE
 HONG KONG BOUNDARY CROSSING FACILITIES
 AND TUNNEL BUILDINGS AND FACILITIES

SITE LOCATION PLAN

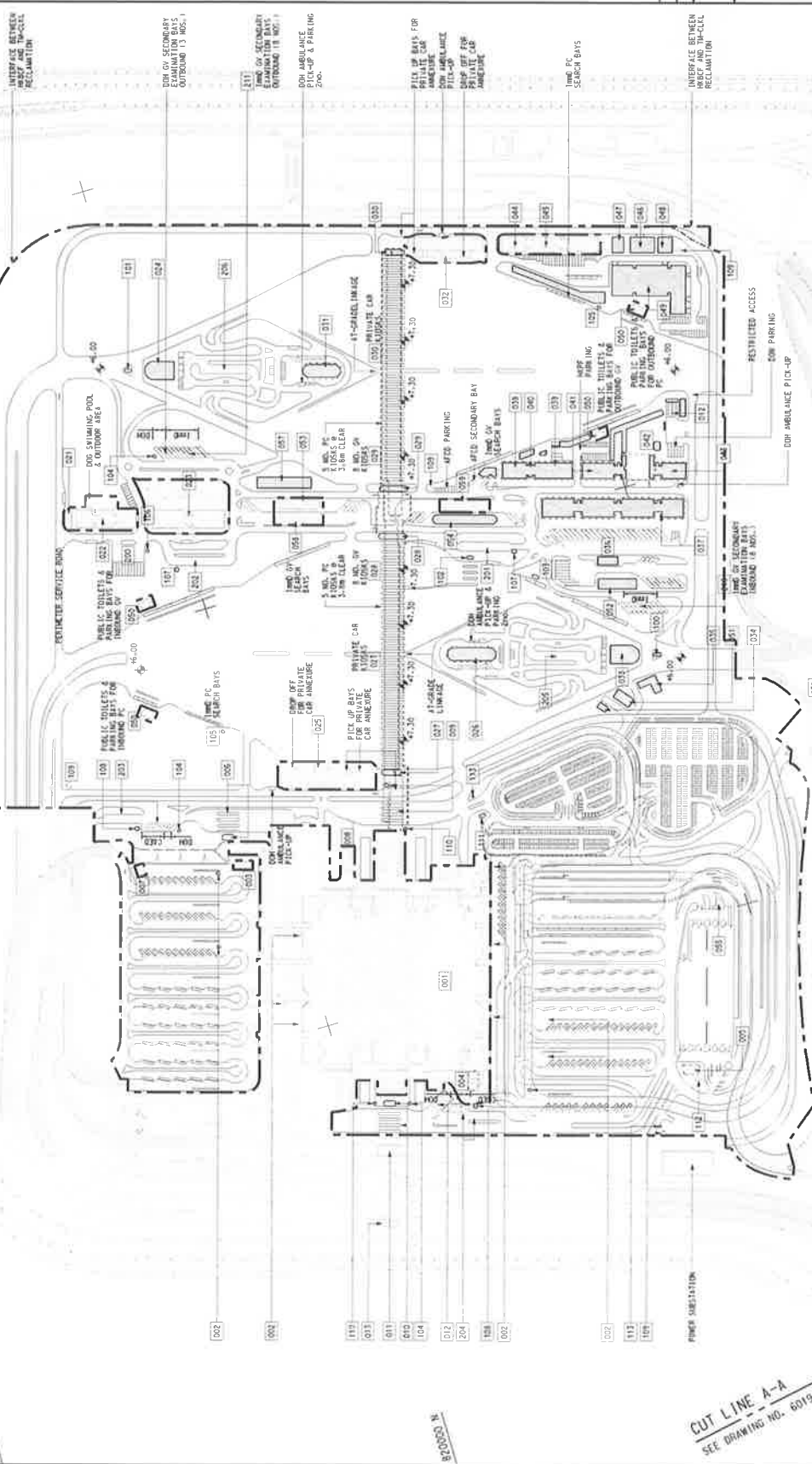
AECOM + **Aedas**
 Rogers Stirk Harbour + Partners
 BURO HAPPOLD + Atkins + ADI

PROJECT NO.	60191048/C3/000/C00/1000
DATE	14/11/14
SCALE	1:25000
PROJECT NAME	HONG KONG BOUNDARY CROSSING FACILITIES AND TUNNEL BUILDINGS AND FACILITIES
DESIGNER	AECOM + AEDAS
CHECKED	WY
DATE	20/11/14
BY	WY
DATE	20/11/14



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NOTE:
 1. THIS DRAWING TO BE READ IN CONJUNCTION WITH
 DRAWING NO. 60191048/C3/000/C00/1002.

LEGEND:
 --- SITE BOUNDARY
 --- YARDSET
 --- BUILDING/FACILITIES



TEPPER DRAWING
 PROJECT NO. 60191048/C3/000/C00/1002
 SHEET 1 OF 2



 Rogers Strick Harbour + Partners
 BURO HAPPOOLD ATKINS AOI

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 DRAWN BY: AIT + 2500
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 DATE: [blank]

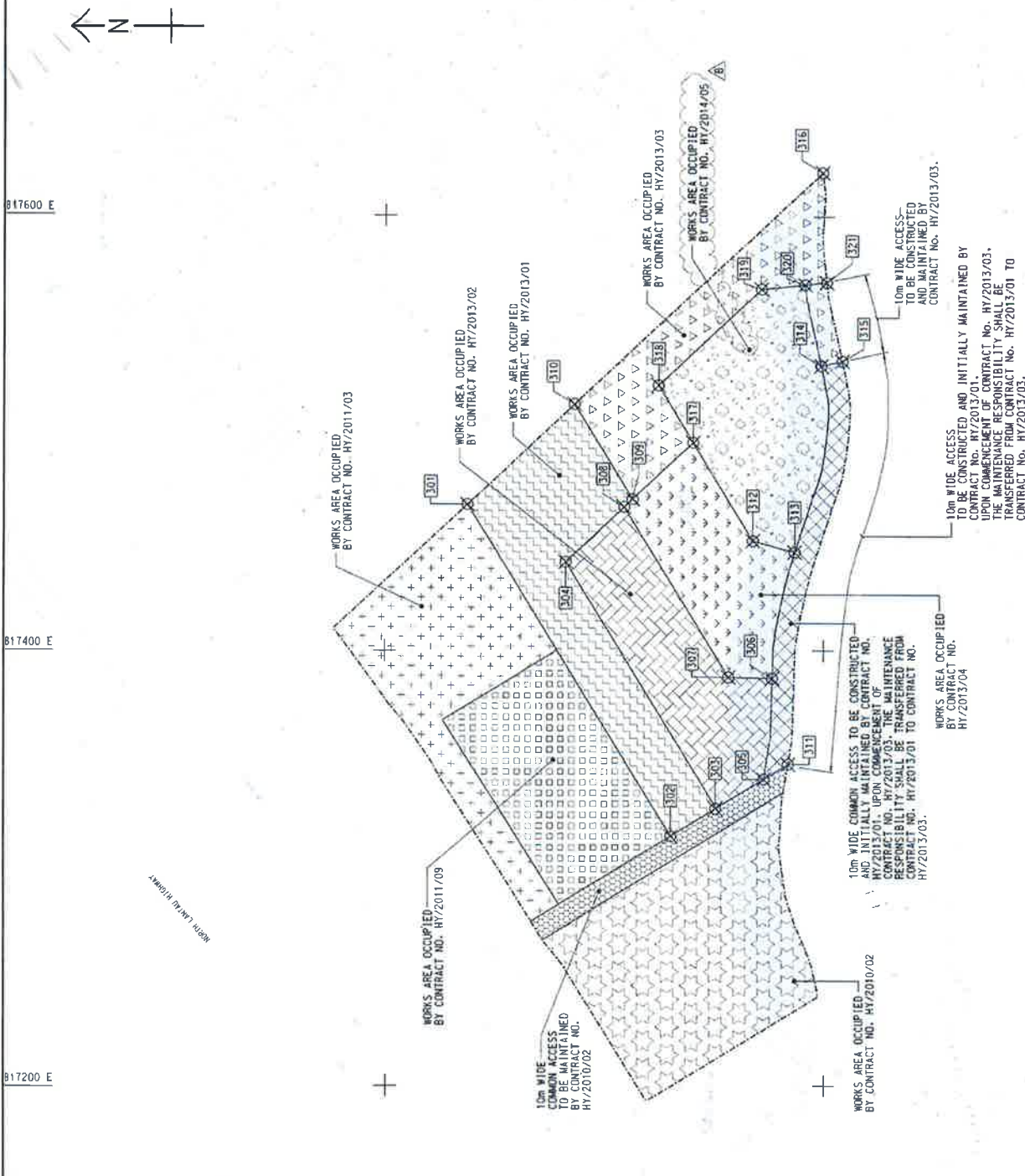
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CUT LINE A-A
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SETTING OUT POINT		
POINT	EASTING	NORTHING
309	817462.856	819162.483
308	817514.741	819054.638
307	817527.538	819054.285
306	817460.805	819117.811
305	817460.825	819077.214
304	817397.350	819077.425
303	817397.861	819083.386
302	817666.153	819081.007
301	817666.161	819087.181
300	817513.499	819133.754
299	817513.711	819106.082
298	817666.535	819012.307
297	817460.345	819013.187
296	817521.134	819001.065
295	817532.345	818911.208
294	817825.259	819000.620
293	817465.827	819079.576
292	817532.110	819075.398
291	817546.404	819024.472
290	817546.507	819006.528
289	817569.551	818994.621



LOCATION PLAN
SCALE 1 : 25000

WORKS AREA WA3
TUNG CHUNG

NOTES:
1. COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
2. DIMENSIONS ARE IN MILLIMETER AND CHAINAGE ARE IN METRES UNLESS OTHERWISE SHOWN.

LEGEND:

WORKS AREA BOUNDARY

- PORTION 3.1
- PORTION 3.2
- PORTION 3.3
- PORTION 3.4
- PORTION 3.5
- PORTION 3.6
- PORTION 3.7
- PORTION 3.8
- PORTION 3.9
- PORTION 3.10

NON-BUILDING AREA ROOM (TRUCKET)

FOR CONSTRUCTION

C	WORKING DRAWING	DATE	16/04/15
B	TECHNICAL APPROVAL NO. 2	DATE	16/04/15
A	TECHNICAL APPROVAL NO. 1	DATE	16/04/15
1	WORKS DRAWING	DATE	16/04/15
2	WORKS DRAWING	DATE	16/04/15
3	WORKS DRAWING	DATE	16/04/15
4	WORKS DRAWING	DATE	16/04/15
5	WORKS DRAWING	DATE	16/04/15
6	WORKS DRAWING	DATE	16/04/15
7	WORKS DRAWING	DATE	16/04/15
8	WORKS DRAWING	DATE	16/04/15
9	WORKS DRAWING	DATE	16/04/15
10	WORKS DRAWING	DATE	16/04/15

WORKS AREA WA3

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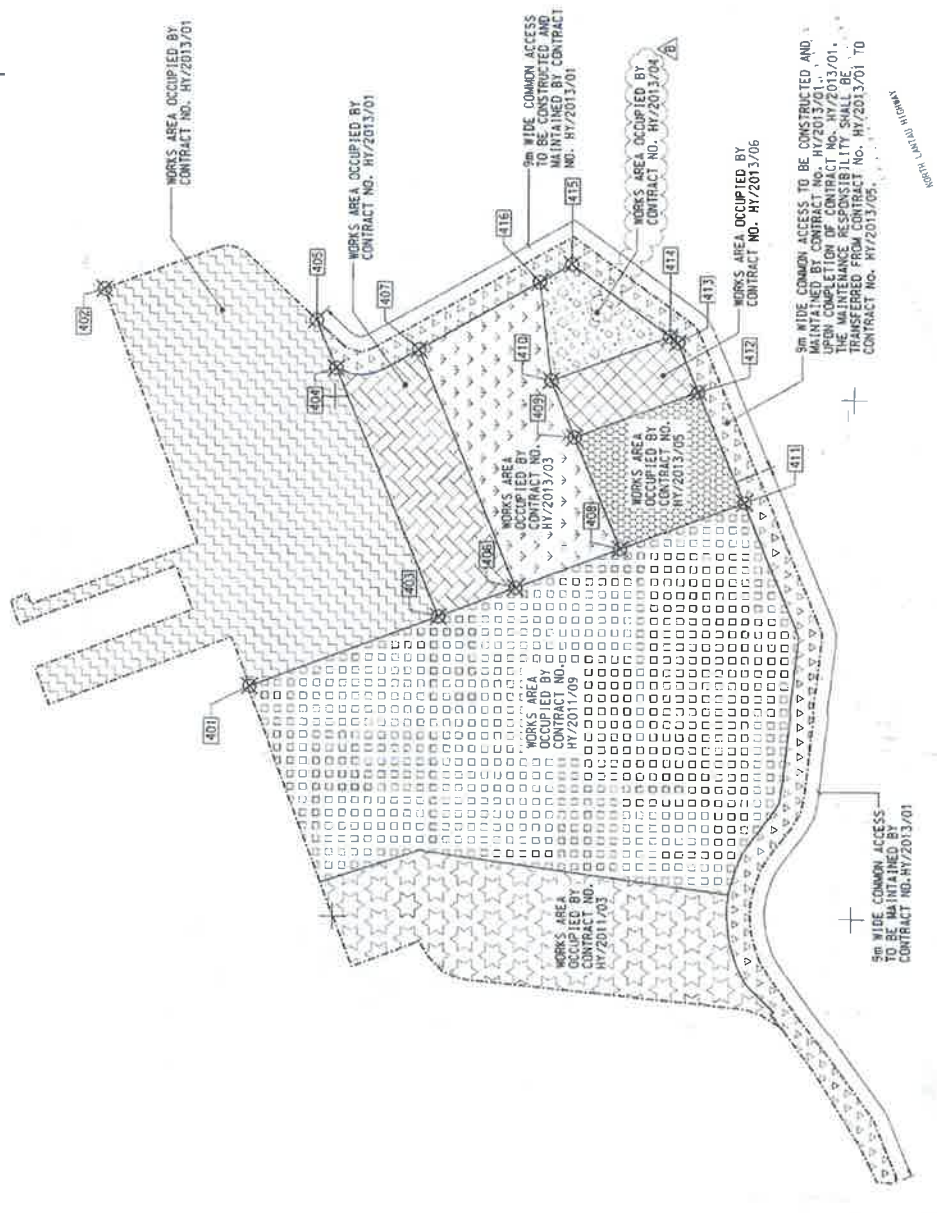
DATE 16/04/15
SCALE 1:25000
PROJECT NO. 60191048

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CONTROLLED DOCUMENT

POINT	EASTING	NORTHING
401	822488.151	822632.315
402	822640.591	822649.415
403	822515.608	822558.848
404	822610.340	822594.442
405	822478.628	822597.359
406	822526.988	822579.813
407	822188.248	822580.750
408	822182.232	821481.581
409	822284.983	822597.426
410	822506.846	822584.541
411	822560.278	822461.935
412	822602.349	822460.010
413	822481.914	822461.935
414	822624.120	822470.898
415	822651.725	822508.656
416	822644.758	822521.132

822400 E
822600 E



LOCATION PLAN
SCALE 1:2500

SUNNY BAY TSO WAN

WORKS AREA WA4

KAP SHUI MUN

NOTES:

- COORDINATES ARE RELATED TO HONG KONG METRIC
- PERCENTAGE AREAS ARE CALCULATED AND SHOWN IN METRES UNLESS OTHERWISE SHOWN

LEGEND:

WORKS AREA BOUNDARY

- PORTION 4.1
- PORTION 4.2
- PORTION 4.3
- PORTION 4.4
- PORTION 4.5
- PORTION 4.6
- PORTION 4.7
- PORTION 4.8
- PORTION 4.9

FOR CONSTRUCTION

NO.	REVISION	DATE	BY	CHKD
1	ISSUE FOR CONSTRUCTION	14/07/13	YIP	YIP
2	REVISION	14/07/14	YIP	YIP
3	REVISION	14/07/14	YIP	YIP
4	REVISION	14/07/14	YIP	YIP
5	REVISION	14/07/14	YIP	YIP

WORKING DRAWING

REVISIONS

WORKS AREA WA4

WORKS AREA WA4

AECOM
Aedas

Rogers Strick Harbour + Partners
Buro Happold Atkins ADI

PROJECT NO. 60191048/C3/000/C00/1052C

DATE: 14/07/13

SCALE: 1:2500

WORKING DRAWING

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Fax : (852)-24508032

Email : mcl@fugro.com

The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The text is white and is set against a black rectangular background that has a thin white border.

Report No.: 0165/15/ED/0820

Appendix B

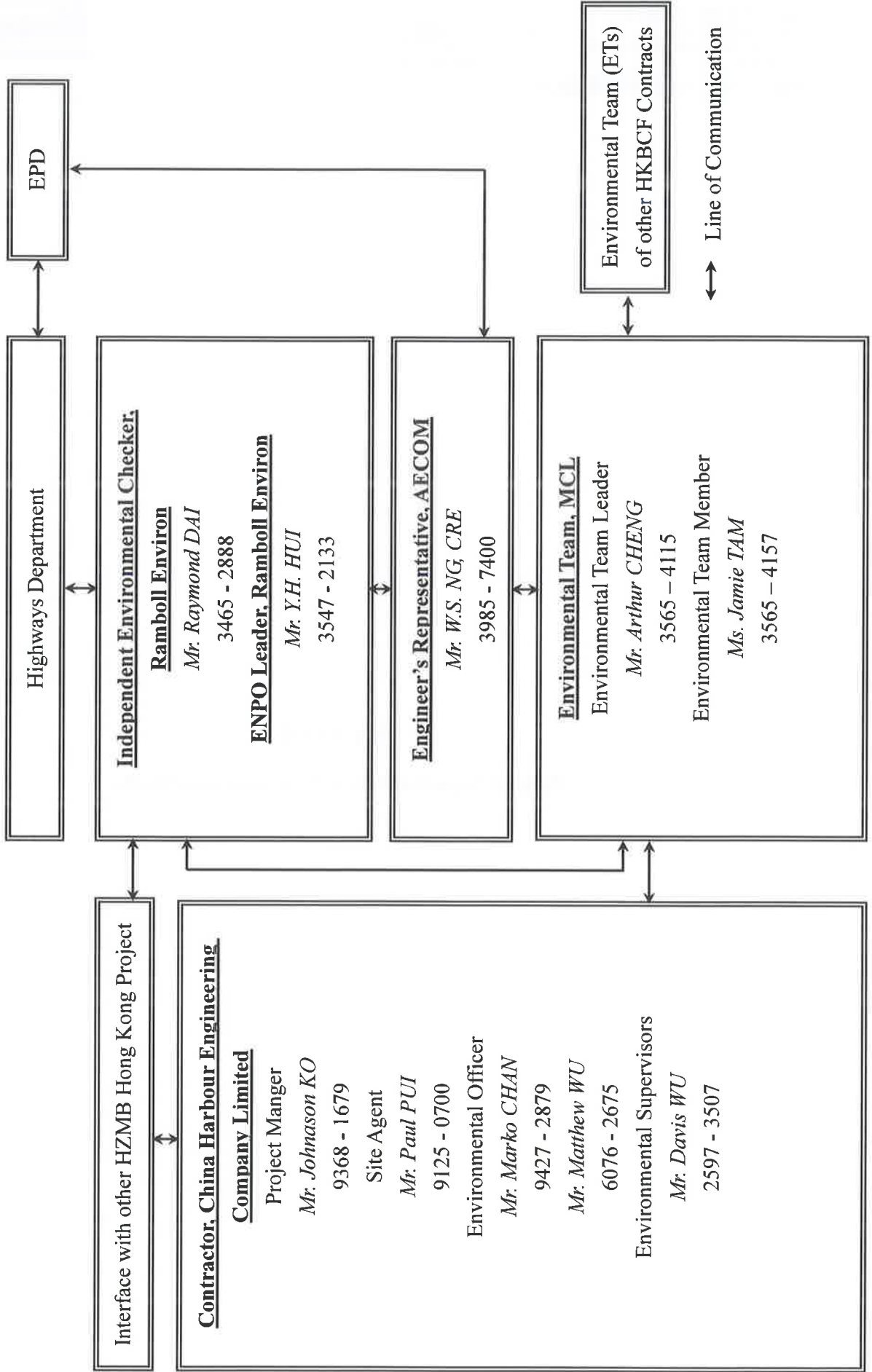
Project Organization for Environmental Works



CHINA HARBOUR ENGINEERING COMPANY LIMITED

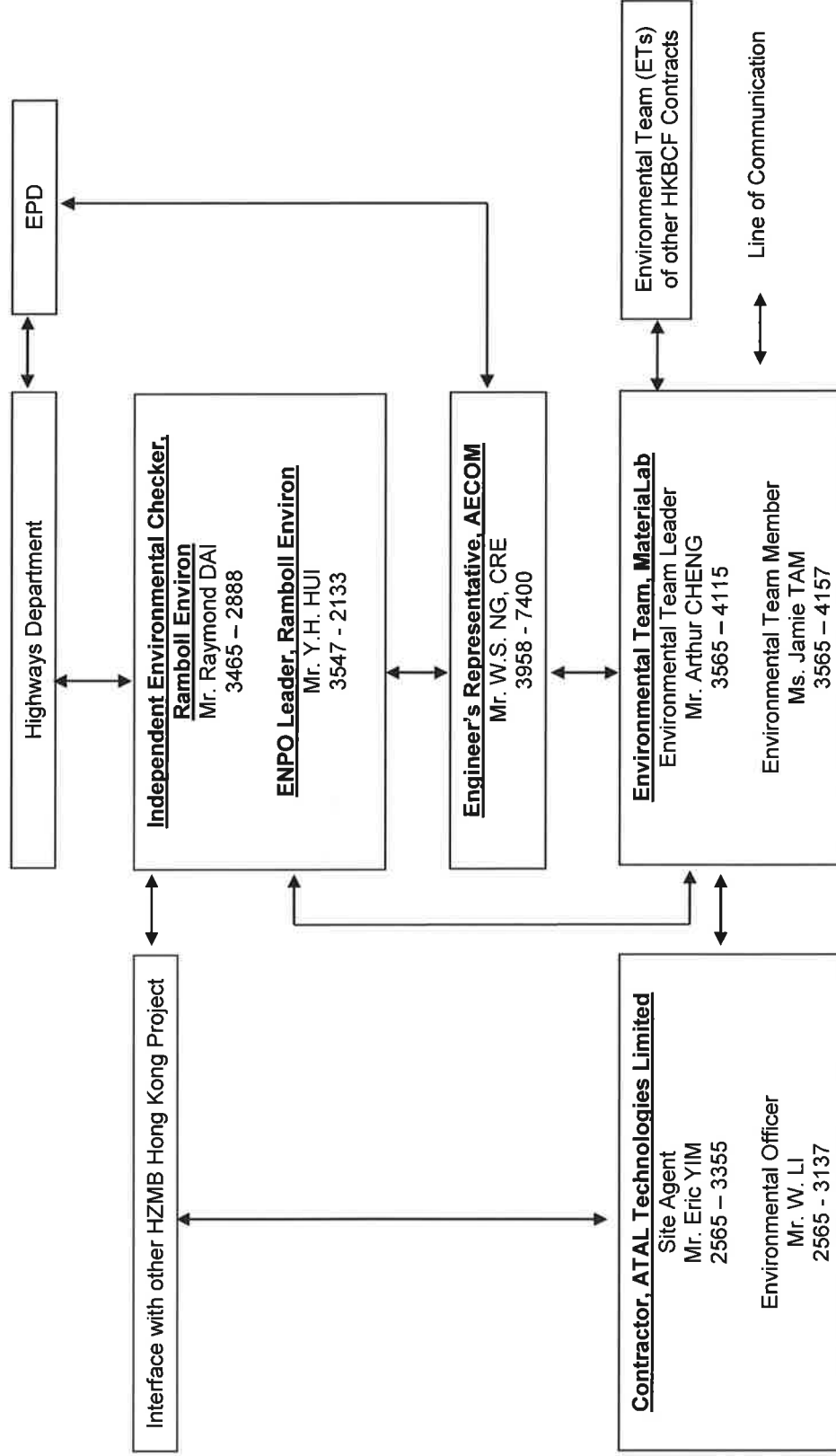
Contract No. HY/2013/03 Hong Kong-Zhuhai-Macao Bridge, Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Projects Organization for Environmental Works



Contract No. HY/2013/06 (within Contract No. HY/2013/03 works area)
 Hong Kong-Zhuhai-Macao Bridge, Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System

Projects Organization for Environmental Works



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MaterialLab

Report No.: 0165/15/ED/0820

Appendix C

Construction Programme

Activity ID	Activity Name	Mar	Apr	May	Jun	Jul
HKBCF - VCP & Ancillary Buildings and Facilities, DWP Rev. 3B, DD 31 Mar. 17						
CONTRACT DATES						
Key Dates						
A1020	KD2 Achievement of Stage 2 of the Works (460 days; 12 Jul. 16)					
A1070	KD7 Achievement of Stage 6 of the Works (500.5 days; 22 Aug. 16 EOT 1)					
A1080	KD8 Achievement of Stage 7 of the Works (520 days; 10 Sep. 16)					
Site Access & Possession						
Possession of Portion of Site						
A0040	Possession of Portion C (<=100 days)					
A0070	Possession of Portion F (<=220 days)					
A0110	Possession of Portion J (<=320 days)					
A0150	Possession of Portion N (<=345 days)					
A0160	Possession of Portion P (<=502 days)					
A0170	Possession of Portion Q (<=500 days)					
A0180	Possession of Portion R (<=610 days)					
Access to Locations of the Site						
A0210	Contract Date for Access to Location 1.1 (490 days)					
A0230	Contract Date for Access to Location 1.3 (488 days)					
A0240	Contract Date for Access to Location 1.4 (488 days)					
A0280	Contract Date for Access to Location 1.7A (610 days)					
A0290	Contract Date for Access to Location 1.7B (610 days)					
A0300	Contract Date for Access to Location 1.7C (610 days)					
A0310	Contract Date for Access to Location 1.8 PCB (Basement level up to ground floor slab) (395 days)					
A0330	Contract Date for Access to External Area for Contract HY/2013/01 for ELV System Installation (570 days)					
A0340	Contract Date for Access to External Area for Contract HY/2013/02 for ELV System Installation (560 days)					
A0350	Contract Date for Access to External Area for Contract HY/2013/04 ELV System Installation (560 days)					
PORTION A1						
Portion A1 Structures						
Bridge A9						
Pier & Abutment						
SA9330	Pier P903					
SA9340	Pier P902					
SA9350	Abutment A901					
Structure Deck						
SA9410	Deck on A905, P904 + Stressing					
SA9415	Falsework for Deck P904 - P903					
SA9420	Deck on P904, P903 + Stressing					
SA9430	Falsework for Deck P903 - P902					
SA9440	Deck on P903 & P902 + Stressing					
SA9450	Falsework for Deck P902 - A901					
SA9460	Deck on P902 & A901 + Stressing					
Retaining Wall W8-1						
SW8110	Construction of Retaining Wall W8-1 (U-shape, 4 bays)					
SW8120	Backfilling W8-1					
SW8130	Parapet W8-1 (16 pour) & E&M Works					
Retaining Wall W9-1						
Key Dates						
	KD7 Achievement of Stage 6 of the Works (500.5 days; 22 Aug. 16 EOT 1)					
	KD8 Achievement of Stage 7 of the Works (520 days; 10 Sep. 16)					
	KD2 Achievement of Stage 2 of the Works (460 days; 12 Jul. 16)					
	Possession of Portion C (<=100 days)					
	Possession of Portion F (<=220 days)					
	Possession of Portion J (<=320 days)					
	Possession of Portion N (<=345 days)					
	Possession of Portion P (<=502 days)					
	Possession of Portion Q (<=500 days)					
	Possession of Portion R (<=610 days)					
	Contract Date for Access to Location 1.1 (490 days)					
	Contract Date for Access to Location 1.3 (488 days)					
	Contract Date for Access to Location 1.4 (488 days)					
	Contract Date for Access to Location 1.7A (610 days)					
	Contract Date for Access to Location 1.7B (610 days)					
	Contract Date for Access to Location 1.7C (610 days)					
	Contract Date for Access to Location 1.8 PCB (Basement level up to ground floor slab) (395 days)					
	Contract Date for Access to External Area for Contract HY/2013/01 for ELV System Installation (570 days)					
	Contract Date for Access to External Area for Contract HY/2013/02 for ELV System Installation (560 days)					
	Contract Date for Access to External Area for Contract HY/2013/04 ELV System Installation (560 days)					

THREE MONTH ROLLING PROGRAMME

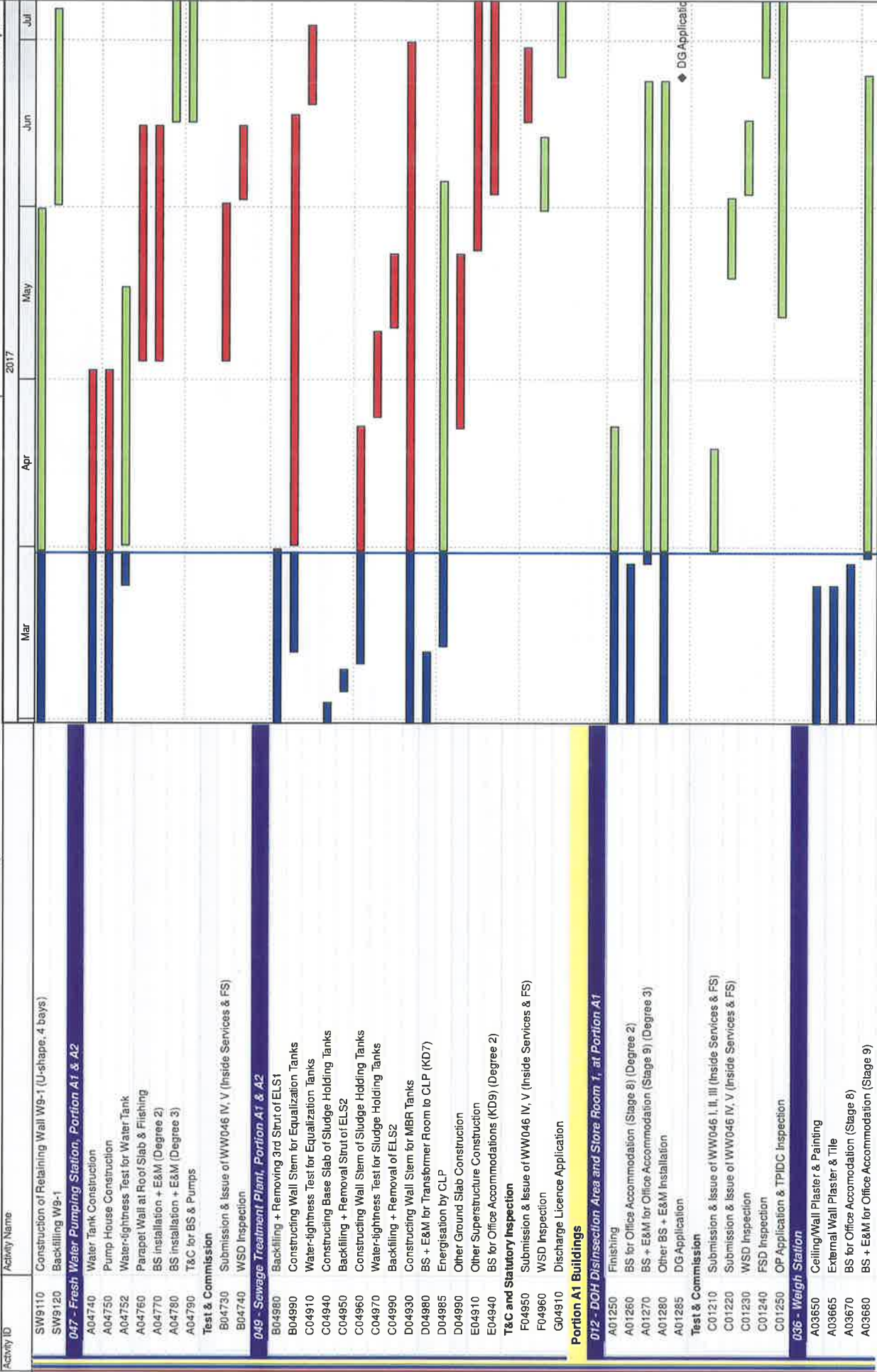
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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01-Feb-17	3MRP updated as of 31 Jan. 2017	ZJ	
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

03-Apr-17



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THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

03-Apr-17

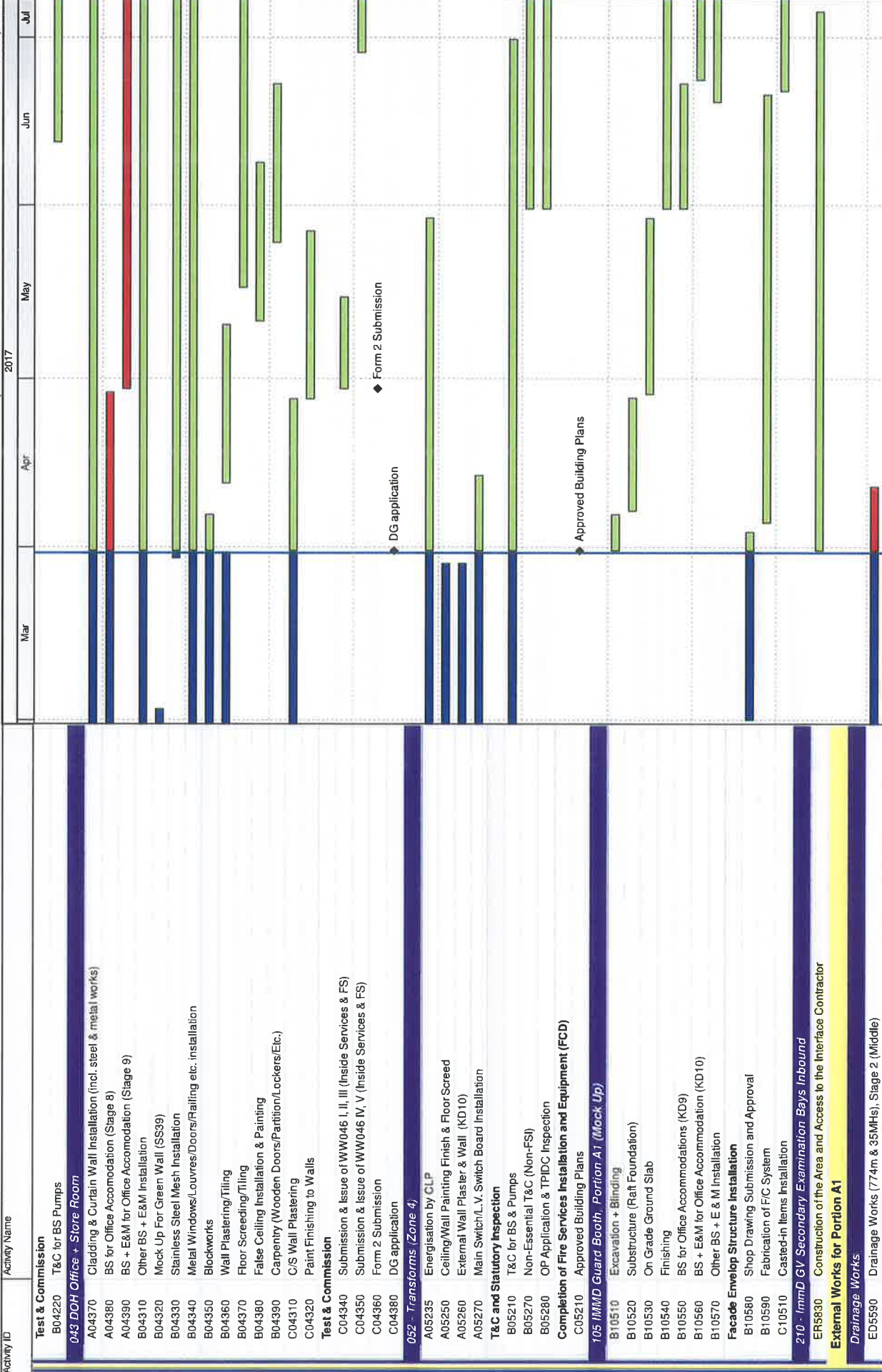
Activity ID	Activity Name	2017				
		Mar	Apr	May	Jun	Jul
A03690	Other BS + E&M Installation					
B03810	T&C for BS & Pumps					
Test & Commission						
B03630	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B03640	Form 314 & 501 submission					
B03650	WSD Inspection					
B03660	FSD Inspection					
B03670	BEEC Stage II & Accessor Certification Submission					
B03680	OP Application & TPIDC Inspection					
037 C&ED Tower Cum Inbound Cargo Examination Building (Portion A1 & B)						
A03740	Steel Frame Structure Installation					
A03742C	Mock-up Sample for Mesh Screen Wall (SS41) & Balustrade					
A03744	Curtain Wall/Metal Roof/Aluminium Cladding Installation					
A03748	Wall/Ceiling Plastering/Tiling					
A03752	Floor Screed/Tiling					
A03756	Window/Door Frame Installation					
A03758	Paint Finish					
A03760	BS + E&M for AVCSS Cabling (KD18A)					
A03770	BS + E&M for AVCSS Cabling (KD18B)					
A03780	BS for Office Accommodation (KD9)					
A03785	BS for Office Accommodation (KD10)					
A03790	Other BS + E&M Installation					
Test & Commission						
B03730	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B03740	Form LES Submission to EMSD					
B03760	Lift Inspection by EMSD					
B03770	WSD Inspection					
B03790	Beam Plus Monthly Submission & Issue					
041 Fire Station Cum Ambulance Depot						
A04126	Cladding & Curtain Wall Installation (incl. steel & metal works)					
A04132	Blockworks					
A04133	Wall Plastering/Wall Tiling					
A04134	Floor Screeding/Tiling/Vinyl Tiles					
A04135	Ceiling/Wall Painting					
A04137	False Ceiling Installation					
A04140	BS for Office Accommodation (Stage 8)					
A04150	BS + E&M for Office Accommodation (Stage 9)					
A04160	Other BS + E&M Installation					
A04170	External Finishing					
A04180	C/S Plastering/Tiling					
Test & Commission						
B04110	T&C for BS & Pumps					
B04120	Submission & Issue of WW046 I, II, III (inside services & FS)					
B04150	Form LES Submission to EMSD					
C04130	Beam Plus Monthly Submission & Issue					
042 Drill Tower						
A04260	Finishing					
A04270	BS for Office Accommodation (Stage 8)					
A04280	BS + E&M for Office Accommodation (Stage 9)					
A04290	Other BS + E&M Installation					

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		31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ					

VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

03-Apr-17



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THREE MONTH ROLLING PROGRAMME
 VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	2017	Mar	Apr	May	Jun	Jul
ED5600	Sewerage (300m & 9MHs), Stage 2 (Middle)						
ED5610	Drainage Works (773m & 34MHs), Stage 3 (Eastern)						
ED5620	Sewerage (269m & 7MHs), Stage 3 (Eastern)						
Waterpipe Laying							
EW5010	Fresh Water Main Laying (700 m), Stage 1 (Western)						
EW6010	Flushing Water Main Laying (322 m), Stage 1 (Western)						
EW6020	Fresh Water Main Laying (700 m), Stage 2 (Middle)						
EW6030	Flushing Water Main Laying (322 m), Stage 2 (Middle)						
EW6040	Fresh Water Main Laying (260 m), Stage 3 (Eastern)						
EW6050	Flushing Water Main Laying (323m), Stage 3 (Eastern)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5260	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
EU5270	Duct & Cable Laying for TCSS & Lighting						
Roadworks							
ER1520	Subbase (8500 ton), Stage 1 (Western)						
PORTION A2							
Portion A2 Structures							
046 - Refuse Collection Point, Portion A2							
A04610	Raft Foundation						
A04620	Superstructure w/2 water tank						
Test & Commission							
B04620	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
048 - Reclaimed Water Pumping Station, Portion A2							
A04857	Backfilling + Removal of ELS						
A04880	Backfilling						
B04810	Superstructure Construction						
B04820	BS for Office Accommodations (Stage 8) (KD9)						
B04830	BS + E&M for Office Accommodation (Stage 9) (KD10)						
B04840	Other BS + E&M Installation						
Test & Commission							
B04860	DG Application						
B04880	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
Retaining Wall W9-2							
SW9210	Construction of Retaining Wall W9-2 (U-shape, 6 bay)						
External Works for Portion A2							
Drainage Works							
ED5630	Drainage Works (228m & 15MHs)						
ED5640	Sewerage (322m & 9MHs)						
Waterpipe Laying							
EW6060	Fresh Water Main Laying (336m)						
EW6070	Flushing Water Main Laying (91m)						
PORTION B							
Portion B Structures							
Retaining Wall W7-2							
S70890	Retaining Wall W7-2 Backfilling						
S70910	C3-S6 Slopeworks						
S70970	Retaining Wall W7-2 Parapet (2 pour) & E&M Works						
Retaining Wall W6-1							
S62060	Retaining Wall W6-1 Backfilling						

Legend

- █ Actual Work
- █ Remaining Work
- █ Critical
- ◆ Milestone

THREE MONTH ROLLING PROGRAMME

VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

03-Apr-17

Activity ID	Activity Name	2017	Mar	Apr	May	Jun	Jul
S62070	Retaining Wall W6-1 Parapet (6 pour) & E&M Works						
S62080	Retaining Wall W6-1 Drainage System & Cable Laying						
Bay 25 - 29 of CUE Staff Subway							
C02930	Bay 25 - 29 Construction - Wall + Top Slab						
C02960	Internal Finishes & Cable Containment (KD1)						
C02970	BS + E&M Installation for AVCSS (KD1)						
C02980	Allow Access to C1 for Chilled Water Pipe (CUE) installation						
Portion B Buildings							
027 028 Inbound Kiosks & 029 Outbound Kiosks							
A02720	Superstructure						
A02730	Construction of Subway Entrance						
A02740	Construction of Subway Toilets						
A02750	Finishing						
A02760	BS for Office Accommodation (Stage 8)						
A02780	BS + E&M for AVCSS Works (KD18A)						
A02790	BS + E&M for AVCSS Cabling (KD18B)						
027 028 Inbound Kiosks & 029 Outbound Kiosks, Section IX, Subject to Excision							
B02740	Pre-fabrication for the Steel Kiosks						
B02760	BS + E&M for AVCSS Works (KD18C)						
B02770	BS + E&M for AVCSS Works (KD18D)						
026 Inbound IMMD and DOH Secondary Screening Building							
A02640	Finishing						
A02650	Contractor's Design Submission for SS Mesh Screen & Approval						
A02660	Contractor's Design Submission for Aluminium Cladding & Approval						
A02670	BS for Office Accommodation (Stage 8)						
A02680	BS + E&M for Office Accommodation (Stage 9)						
A02690	Other BS + E&M Installation						
Test & Commission							
B02630	Submission & Issue of WW046 IV, V (Inside Services & FS)						
B02650	TC for BS & Pumps						
B02680	Form LES Submission to EMSD						
B02690	Lift Inspection by EMSD						
054 Inbound Fixed X-ray Building							
A05460	Finishing						
A05467	Energisation by CLP						
A05470	BS for Office Accommodation (Stage 8)						
A05480	BS + E&M for Office Accommodation (Stage 9)						
A05490	Other BS + E&M Installation						
B05410	Lift Installation						
T&C and Statutory Inspection for Zone 4a							
B05420	T&C for BS & Pumps						
B05430	Form LE Submission to EMSD						
B05440	Lift Inspection by EMSD						
Waterworks Ordinance (WSD)							
G05410	Approval Letter and approved Drawings						
038 AFCD Office							
A03850	Finishing + Curtain Wall Installation						
A03870	BS for Office Accommodation (Stage 8)						
A03880	BS + E&M for Office Accommodation (Stage 9)						
A03890	Other BS + E&M Installation						

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THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES
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█ Actual Work
█ Remaining Work
█ Critical
◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	2017					03-Apr-17
		Mar	Apr	May	Jun	Jul	
Test & Commission							
B03810	T&C for BS & Pumps						
B03830	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
C03820	Form 2 Submission						
	039 Police Main Building						
A03940	Finishing + Curtain Wall Installation						
A03950	BS for Office Accommodation (Stage 8), & for TCSS works (KD14)						
A03960	BS + E&M for Office Accommodation (Stage 9)						
A03970	Other BS + E&M Installation						
	Test & Commission						
B03920	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
B03930	Submission & Issue of WW046 IV, V (Inside Services & FS)						
B03950	Beam Plus Monthly Submission & Issue						
C03950	Form 2 Submission						
C03970	T&C for BS & Pumps						
	040 Incident Control Tower						
A04040	Superstructure						
A04050	Finishing (KD9)						
A04060	BS for Office Accommodation (Stage 8), & for TCSS works (KD14)						
A04070	BS + E&M for Office Accommodation (Stage 9)						
	Facade Cladding System						
B04020	Fabrication of F/C System						
B04030	Casted-in Items Installation						
B04040	Steel Frame Installation						
	Glass Wall						
C04020	Fabrication of Glass Wall						
C04030	Casted-in Items Installation						
C04040	Steel Frame Installation						
	Test & Commission						
D04030	T&C for BS & Pumps						
D04040	Form 2 Submission						
	102 HKPF UVSS Monitor Room						
A10230	Finishing (False Ceiling) (KD9)						
A10240	BS for Office Accommodation (Stage 8)						
A10270	Other BS + E&M Installation						
C10210	WWO 46 Part I, II, III Submission (inside Service + FS)						
	Metal Canopy and Roof Installation						
B10212	Fabrication of MC/R						
B10220	Casted-in Items Installation						
B10230	Steel Frame Installation						
B10240	Glass panel, metal cladding panel installation						
	103 Police Inspection Post						
A10350	Finishing (False Ceiling) (KD9)						
A10360	BS for Office Accommodation (Stage 8)						
A10380	Other BS + E&M Installation						
C10320	WWO 46 Part I, II, III Submission (inside Service + FS)						
	HPL Composite Panel Cladding System						
B10310	Shop Drawing Submission and Approval						
B10320	Fabrication of HPL Cladding						
B10330	Casted-in Items Installation						

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- █ Actual Work
- █ Remaining Work
- █ Critical
- ◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

03-Apr-17

Activity ID	Activity Name	2017	Mar	Apr	May	Jun	Jul
B10340	Steel Frame Installation						
057 - Transformers (Zone 2)							
A05740	Finishing						
A05755	Energyisation by CLP						
A05760	BS for Office Accommodation (Stage 8)						
A05770	BS + E&M for Office Accommodation (Stage 9)						
A05780	Other BS + E&M Installation						
T&C and Statutory Inspection for Zone 2a & 2b							
C05700	T&C for BS & Pumps						
F05700	Essential T&C (FSI)						
F05710	Non-Essential T&C (Non-FSI)						
Completion of Fire Services Installation and Equipment (FCP)							
F05740	Provision of Approved Building Plans by the Engineer						
F05750	Application for FSI Inspection (FSI/501) c/w FSI Plan (FSI/314)						
DG License & EPD Generator Approval							
G05710	Approval Letter and approved Drawings						
107 - C&ED Mobile X-ray Operation Office (Cargo), Portion B							
C10730	Superstructure (Roof Slabs)						
C10740	Finishing						
C10750	BS for Office Accommodation (Stage 8)						
C10760	BS + E&M for Office Accommodation (Stage 9)						
C10770	Other BS + E&M Installation						
113 - Field Kiosk for Access Control, Portion B							
B11320	Raft Foundation						
B11330	Superstructure (Roof Beams & Slabs)						
B11340	Finishing						
B11350	BS for Office Accommodation (Stage 8)						
B11370	Other BS + E&M Installation						
201 - Inbound Cargo Mobile X-ray Operation Area							
ER5740	Radiation Screen Wall Construction						
ER5850	Construction of the Area and Access to the Interface Contractor						
205 - Inbound Private Car Mobile X-ray Operation Area							
ER5750	Radiation Screen Wall Construction						
ER5860	Construction of the Area and Access to the Interface Contractor						
External Works for Portion B							
Drainage Works							
ED5670	Drainage Works (1130m & 60MHs), Stage 3 (N/W)						
ED5680	Sewerage (300m & 8MHs), Stage 3 (N/W)						
ED5690	Drainage Works (1130m & 60MHs), Stage 4 (N/E)						
ED5700	Sewerage (300m & 82MHs), Stage 4 (N/E)						
Waterpipe Laying							
EW6080	Fresh Water Main Laying (500m), Stage 2 (S/E)						
EW6090	Flushing Water Main Laying (450m), Stage 2 (S/E)						
EW6100	Fresh Water Main Laying (500m), Stage 3 (N/W)						
EW6110	Flushing Water Main Laying (450m), Stage 3 (N/W)						
EW6190	Chilled Water Pipe Laying in Portion B (external)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5300	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
EU5310	Duct & Cable Laying for TCSS & Lighting						
EU5550	ELV Installation						

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THREE MONTH ROLLING PROGRAMME
 VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	2017	Mar	Apr	May	Jun	Jul
Roadworks							
ER1640	Subbase (10000 ton), Stage 1 (N/W)						
ER3590	Bitumen Pavement (14000 ton), Stage 1 (N/W)						
ER3600	Rigid Pavement (594 m3), Footpath & EVA, Stage 1 (N/W)						
ER5590	Subbase (11000 ton), Stage 2 (N/E)						
ER5600	Bitumen Pavement (15000 ton), Stage 2 (N/E)						
ER5610	Rigid Pavement (594 m3), Footpath & EVA, Stage 2 (N/E)						
ES5240	Sign Gantry ADS 306A & ADS 306B Fabrication & Delivery of Sign Gantrys to Site						
PORTION C							
Portion C Buildings							
010 - Inbound Coach Kiosk & Staff Subway Entrance							
A01010	Substructure and Staircase Construction						
009 - Staff Subway Entrance (Bay 0 - 3) & Shuttle Bus Kiosks							
A00940	Finishing						
A00950	BS + E&M for AVCSS works (KD 1)						
A00960	Allow Access to C1 for Chilled Water Pipe Installation (CUE)						
B00920	Kiosk superstructure						
B00930	BS + E&M for AVCSS works (KD18A)						
B00940	BS + E&M for AVCSS Cabling (KD18B)						
012 - DOH Disinsection Area and Store Room 1, at Portion C							
B01210	Excavation & Blinding						
B01220	Raft Foundation						
B01230	Superstructure						
B01240	Finishing						
B01270	BS for Office Accommodation (KD 9)						
104 - DOH Secondary Screening Station, at Portion C							
Facade Cladding System							
A10460	Shop Drawing Submission and Approval						
A10465	Fabrication of F/C System						
108 C&E Mobile X-ray Machine Operation Office, Portion C							
A10805	Excavation & Blinding						
A10810	Raft Foundation						
A10840	Superstructure (Roof Beams & Slabs)						
HPL Composite Panel Cladding System							
A10800	Shop Drawing Submission and Approval						
A10815	Fabrication of HPL Cladding						
110 IMM D Guard Booth (Type 2) East							
A11020	Excavation & Blinding						
A11030	Substructure						
A11080	Finishing						
A11090	BS for Office Accommodation (Stage 8)						
B11020	Other BS + E&M Installation						
Facade Envelop Structure Installation							
A11040	Shop Drawing Submission and Approval						
A11045	Fabrication of F/C System						
A11050	Casted-in Items Installation						
111 Field Kiosk for Carpark Operator							
A11120	Excavation & Blinding						

◆ Allow Access to C1 for Chilled Water Pipe Installation (CUE)

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Contract No.: HY2013/03

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

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Activity ID	Activity Name	2017				
		Mar	Apr	May	Jun	Jul
A11130	Raft Foundation					
A11140	Superstructure (Roof beams & Slabs)					
HPL Composite Panel Cladding System						
B11110	Shop Drawing Submission and Approval					
B11120	Fabrication of HPL Cladding					
B11130	Casted-in Items Installation					
113 - Field Kiosk for Access Control, Portion C						
C11310	Excavation & Blinding					
C11320	Raft Foundation					
C11330	Superstructure (Roof Beams & Slabs)					
204 - Inbound Coach Exam Area & Mobile X-ray Operation						
ER5760	Radiation Screen Wall Construction					
External Works for Portion C						
<i>Works in Location 1.2, 1.8 & 011 - Emergency Generator Building</i>						
BB1440	Works & T&C in Location 1.2					
BB1450	Works & T&C in Location 1.8					
BB1460	ELV System Installations and T&C for Contract HY2013/01					
BB1470	Provisioning of Civil Engineering Works for 011-Emergency Generator Building (KD18)					
Drainage Works						
B00040	Initial Survey					
SG2400	Drainage Works (400m & 18MHs), Stage 1 (Eastern)					
SG3610	Sewerage (90m & 2MHs), Stage 1 (Eastern)					
Waterpipe Laying						
SW2410	Fresh Water Main Laying (135m), Stage 1 (Eastern)					
SW2420	Flushing Water Main Laying (50m), Stage 1 (Eastern)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
SU5320	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
SU5330	Duct & Cable Laying for TCSS & Lighting					
Roadworks						
SR2500	Subbase (2100 ton), Stage 1 (Eastern)					
PORTION D						
Portion D Building						
<i>113 - Field Kiosk for Access Control, Portion D</i>						
C11360	Raft Foundation					
C11370	Superstructure (Roof Beams & Slabs)					
C11380	Finishing					
D11340	BS for Office Accommodation (Stage 8)					
External Works for Portion D						
Drainage Works						
SG3640	Drainage Works (361m & 14MHs)					
SG3760	Sewerage (121m & 6MHs)					
Waterpipe Laying						
SW3650	Fresh Water Main Laying (108m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
SU5340	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
SU5350	Duct & Cable Laying for TCSS & Lighting					
SU5640	Access data to Telephone Companies					
Roadworks						
SR3740	Subbase (261 ton)					

<p>Actual Work</p> <p>Remaining Work</p> <p>Critical</p> <p>Milestone</p>		<p>Access date to Telephone Companies</p>	
<p>THREE MONTH ROLLING PROGRAMME</p> <p>VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES</p> <p>Page 10 of 21</p>		<p>Date</p> <p>01-Feb-17</p> <p>28-Feb-17</p> <p>31-Mar-17</p>	<p>Revision</p> <p>3MRP updated as of 31 Jan. 2017</p> <p>3MRP updated as of 28 Feb. 2017</p> <p>3MRP updated as of 31 Mar. 2017</p>
Checked	Approved	ZJ	ZJ
		ZJ	ZJ

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Activity ID	Activity Name	2017	Mar	Apr	May	Jun	Jul
SR3770	Bitumen Pavement (619 ton)						
PORTION E							
006 - Shuttle Bus Kiosk & Staff Subway Entrance, at Portion E & M							
A00620	Constructing base of Subway						
A00630	Constructing wall stem + top slab of Subway						
A00640	Backfilling						
A00650	Constructing Ground Slab						
A00660	Constructing Kiosk (4 Nr)						
A00670	Constructing Subway Entrance						
External Works for Portion E							
Drainage Works							
SG3780	Drainage Works (89m & 5MHs)						
SG3900	Sewerage (38m & 1 MH)						
Waterpipe Laying							
SW3790	Fresh Water Main Laying (45m)						
SW3800	Flushing Water Main Laying (25m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
SU5360	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
SU5370	Duct & Cable Laying for TCSS & Lighting						
Roadworks							
SR3880	Subbase (1659 ton)						
SR3910	Bitumen Pavement (2105 ton)						
SR3920	Rigid Pavement (180 m ³)						
PORTION F							
External Works for Portion F							
Drainage Works							
B00070	Initial Survey						
SG3930	Drainage Works (122m & 9MHs)						
SG4050	Sewerage (70m & 3MHs)						
Waterpipe Laying							
SW3940	Fresh Water Main Laying (205m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
SU5380	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
SU5390	Duct & Cable Laying for TCSS & Lighting						
SU5420	ELV Installation						
Roadworks							
SR4030	Subbase (1534 ton)						
PORTION G, H1 & H2							
Portion G Structures							
Box Culvert Structure							
SC0310	Box C - Branch Construction						
SC0320	Box C - Branch Backfilling						
SC0380	Box C - Construction of Main Body						
SC0390	Box C - Back filling						
Bridge A1							
Structure Deck							
SA1450	Falsework for Deck P101, P102						

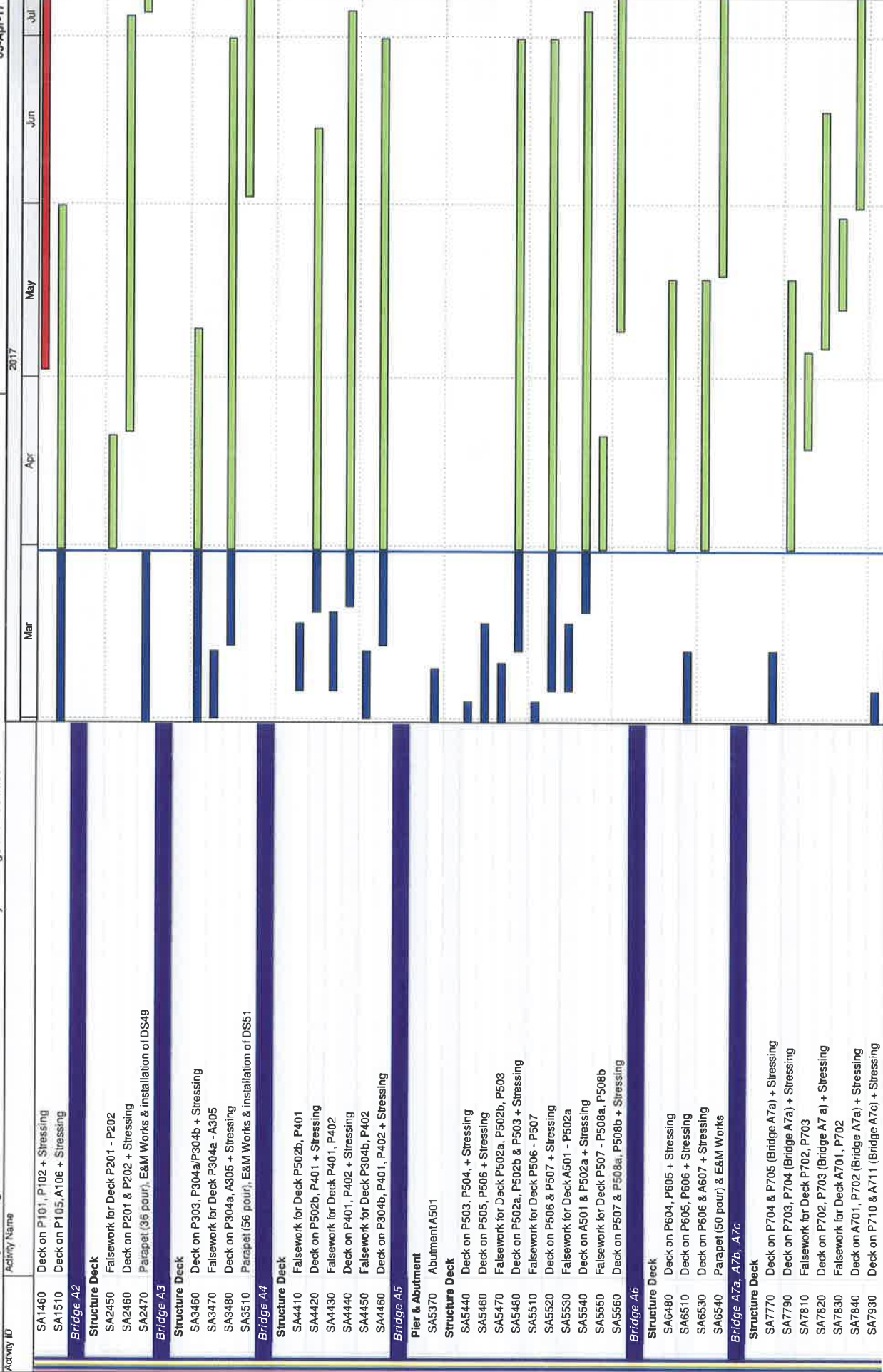
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- █ Actual Work
- █ Remaining Work
- █ Critical
- ◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

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Activity Name	Mar	Apr	May	Jun	Jul
SA1460 Deck on P101, P102 + Stressing	█				
SA1510 Deck on P105, A106 + Stressing	█				
SA2450 Falsework for Deck P201 - P202	█				
SA2460 Deck on P201 & P202 + Stressing	█				
SA2470 Parapet (36 pour), E&M Works & Installation of DS49	█				
SA3460 Deck on P303, P304a/P304b + Stressing	█				
SA3470 Falsework for Deck P304a - A305	█				
SA3480 Deck on P304a, A305 + Stressing	█				
SA3510 Parapet (56 pour), E&M Works & Installation of DS51	█				
SA4410 Falsework for Deck P502b, P401	█				
SA4420 Deck on P502b, P401 + Stressing	█				
SA4430 Falsework for Deck P401, P402	█				
SA4440 Deck on P401, P402 + Stressing	█				
SA4450 Falsework for Deck P304b, P402	█				
SA4460 Deck on P304b, P401, P402 + Stressing	█				
SA5370 Abutment A501	█				
SA5440 Deck on P503, P504, + Stressing	█				
SA5460 Deck on P505, P506 + Stressing	█				
SA5470 Falsework for Deck P502a, P502b, P503	█				
SA5480 Deck on P502a, P502b & P503 + Stressing	█				
SA5510 Falsework for Deck P506 - P507	█				
SA5520 Deck on P506 & P507 + Stressing	█				
SA5530 Falsework for Deck A501 - P502a	█				
SA5540 Deck on A501 & P502a + Stressing	█				
SA5550 Falsework for Deck P507 - P508a, P508b	█				
SA5560 Deck on P507 & P508a, P508b + Stressing	█				
SA6480 Deck on P604, P605 + Stressing	█				
SA6510 Deck on P605, P606 + Stressing	█				
SA6530 Deck on P606 & A607 + Stressing	█				
SA6540 Parapet (50 pour) & E&M Works	█				
SA7770 Deck on P704 & P705 (Bridge A7a) + Stressing	█				
SA7790 Deck on P703, P704 (Bridge A7a) + Stressing	█				
SA7810 Falsework for Deck P702, P703	█				
SA7820 Deck on P702, P703 (Bridge A7 a) + Stressing	█				
SA7830 Falsework for Deck A701, P702	█				
SA7840 Deck on A701, P702 (Bridge A7a) + Stressing	█				
SA7930 Deck on P710 & A711 (Bridge A7c) + Stressing	█				

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Activity ID	Activity Name	Mar	Apr	May	Jun	Jul
SA7940	Parapet for Bridge A7b (8 pour) & E&M Works					
SA7950	Parapet for Bridge A7c (38 pour) & E&M Works					
SA7960	Parapet for Bridge A7a (48 pour) & E&M Works					
SA7980	Bituminous Paving for A7c (400 ton)(K025)					
Bridge A8						
Structure Deck						
SA8440	Deck on P802, P803 + Stressing					
SA8450	Falsework for Deck P803, P804					
SA8460	Deck on P803, A804 + Stressing					
SA8470	Parapet (26 Pour) & E&M works					
Retaining Walls W1-1, W3-1, W5-1 & W7-1						
Retaining Wall W1-1						
SW1110	Construction of Retaining Wall W1-1 (L-shape, 4 bays)					
SW1120	Retaining Wall W1-1 Backfilling					
Retaining Wall W3-1						
SW3150	Construction of Retaining Wall W3-1 (U-shape, 4 bays)					
SW3160	Backfilling W3-1					
Retaining Wall W5-1						
SW5010	Construction of Retaining Wall W5-1 (L-shape, 5 bays)					
Retaining Wall W7-1						
SW7110	Construction of Retaining Wall W7-1 (U-shape, 4 bays)					
Portion G Buildings						
002 - C&ED Observation Guard Booth No. 1, Portion H1						
C00220	Excavation + Blinding					
C00230	Raft Foundation					
C00240	Superstructure					
002 - C&ED Observation Guard Booth No. 2, Portion H1						
E00210	Excavation + Blinding					
E00220	Raft Foundation					
E00230	Superstructure					
033 Inbound Private Car Exam Building						
A03330	Finishing					
A03360	External Works					
A03370	BS for Office Accommodation (Stage 8)					
A03380	BS + E&M for Office Accommodation (Stage 9)					
A03390	Other BS + E&M Installation					
C03310	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
Glass Canopy Installation						
B03305	Fabrication of Glass Canopy					
B03350	Casted-in Items Installation					
B03360	Steel Frame Installation					
Aluminium Metal Canopy						
B03315	Fabrication of FC System					
B03320	Casted-in Items Installation					
B03330	Steel Frame Installation					
B03340	Aluminium Cladding Installation					
034 Satellite RCP South						
A03450	Finishing					
A03460	BS for Office Accommodation (Stage 8)					
A03470	BS + E&M for Office Accommodation (Stage 9)					

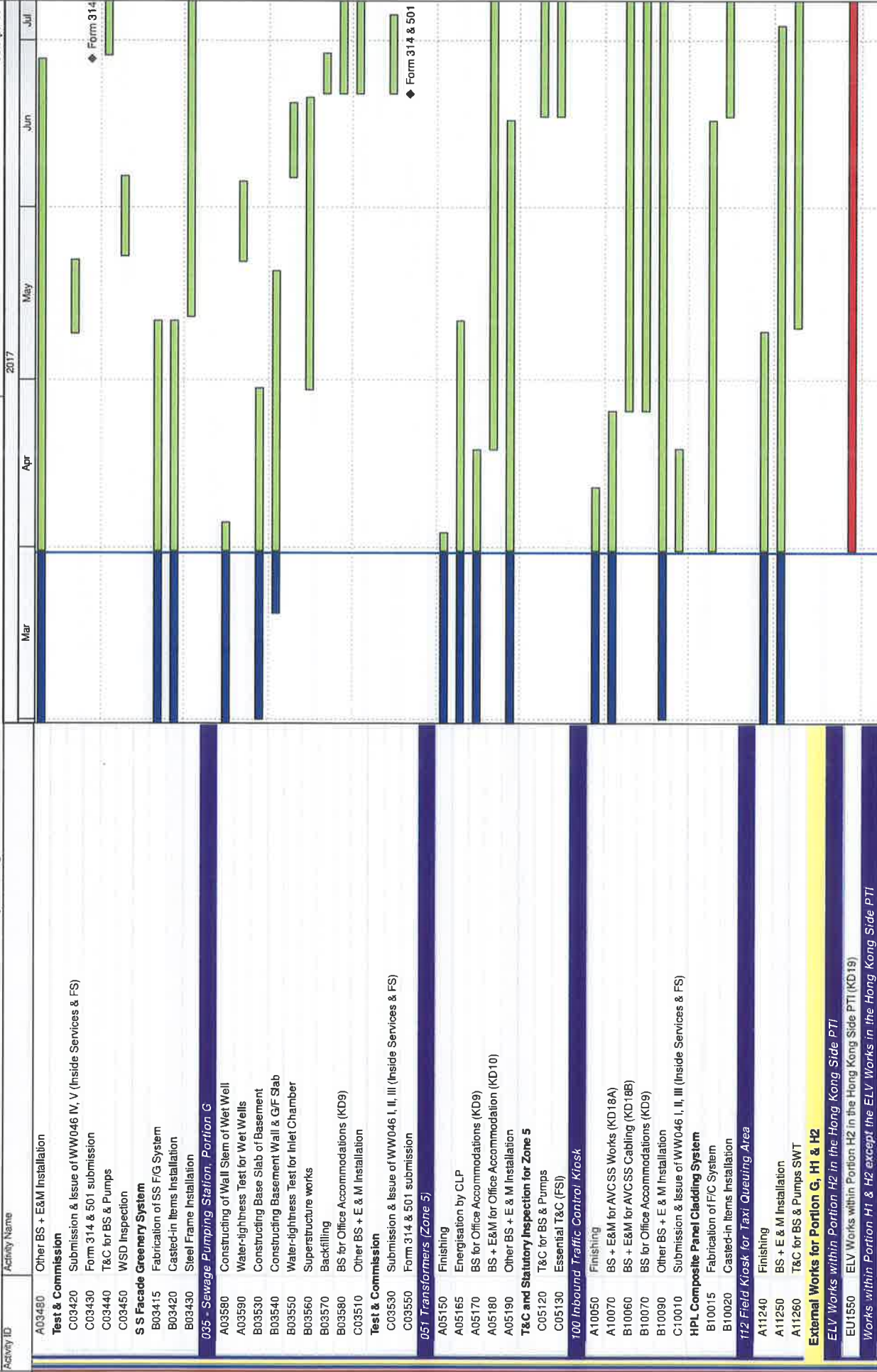
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Actual Work
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Activity ID	Activity Name	Mar	Apr	May	Jun	Jul
A03480	Other BS + E&M Installation					
Test & Commission						
C03420	Submission & Issue of WW046 IV, V (Inside Services & FS)					
C03430	Form 314 & 501 submission					
C03440	T&C for BS & Pumps					
C03450	WSD Inspection					
S S Facade Greenery System						
B03415	Fabrication of SS F/G System					
B03420	Casted-in Items Installation					
B03430	Steel Frame Installation					
005 - Sewage Pumping Station, Portion G						
A03580	Constructing of Wall Stem of Wet Well					
A03590	Water-tightness Test for Wet Wells					
B03530	Constructing Base Slab of Basement					
B03540	Constructing Basement Wall & C/F Slab					
B03550	Water-tightness Test for Inlet Chamber					
B03560	Superstructure works					
B03570	Backfilling					
B03580	BS for Office Accommodations (KD9)					
C03510	Other BS + E & M Installation					
Test & Commission						
C03530	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
C03550	Form 314 & 501 submission					
001 Transformers (Zone 5)						
A05150	Finishing					
A05165	Energisation by CLP					
A05170	BS for Office Accommodations (KD9)					
A05180	BS + E&M for Office Accommodation (KD10)					
A05190	Other BS + E & M Installation					
T&C and Statutory Inspection for Zone 5						
C05120	T&C for BS & Pumps					
C05130	Essential T&C (FSI)					
100 Inbound Traffic Control Kiosk						
A10050	Finishing					
A10070	BS + E&M for AVCSS Works (KD18A)					
B10060	BS + E&M for AVCSS Cabling (KD18B)					
B10070	BS for Office Accommodations (KD9)					
B10090	Other BS + E & M Installation					
C10010	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
HPL Composite Panel Cladding System						
B10015	Fabrication of F/C System					
B10020	Casted-in Items Installation					
112 Field Kiosk for Taxi Queuing Area						
A11240	Finishing					
A11250	BS + E & M Installation					
A11260	T&C for BS & Pumps SWT					
External Works for Portion G, H1 & H2						
<i>ELV Works within Portion H2 in the Hong Kong Side PTI</i>						
EU1550	ELV Works within Portion H2 in the Hong Kong Side PTI (KD19)					
<i>Works within Portion H1 & H2 except the ELV Works in the Hong Kong Side PTI</i>						

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Activity ID	Activity Name	2017					03-Apr-17
		Mar	Apr	May	Jun	Jul	
EU1560	Drainage & Sewerage Works within Portion H1 & H2 in the Hong Kong Side PTI (KD20)						
EU5520	Roadworks (- Footpath) & Canopy Erection within Portion H1 & H2 in the Hong Kong Side PTI (KD20)						
All Works within the Boundary defined in Drawing No. 60191048/C3/000/C00/1050							
BEU1570	Drainage & Sewerage Works (incl. CLP) within the Boundary defined in Drawing No. 60191048/C3/000/1050						
Drainage Works							
ED4070	Drainage Works (6954m & 393MHs)						
ED4190	Sewerage (437m & 12MHs)						
Waterpipe Laying							
EW4080	Fresh Water Main Laying (1689m)						
EW4090	Flushing Water Main Laying (411m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5400	Duct & Cable Laying for Utilities/telecom, CLP, BS & ELV						
EU5560	ELV Installation						
Roadworks							
ER4170	Subbase (17045 ton)						
ER4200	Bitumen Pavement (24549 ton)						
ER4210	Rigid Pavement (51.4 m3), Footpath & EVA						
Sign Gantry DS40, DS41 & DS75							
ES0080	Testing for Pre-bored H Piling						
ES0180	Fabrication & Delivery of Sign Gantries to Site						
Canopy and Covered Walkway							
CC1310	Shop drawing, Approved & Fabrication						
CC1320	Forming						
CC1330	Steel Frame Installation						
PORTION J							
Portion J Structure							
Bay 30 - 41 of CUE/Staff Subway (Portion J)							
B03230	Bay 34 - 39 Construction - Wall + Top Slab, Staircase						
B03250	Bay 40 - 41 Construction - Wall + Top Slab, Staircase						
B03260	Internal Finishes & Cable Containment (KD2)						
B03270	BS + E&M Installation for AVCSS (Stage 2) (KD2)						
030 Outbound Private Car & GV Kiosks							
A03020	Pre-fabrication for the Steel Kiosks						
A03030	Superstructure (Incl. Entrance & Toilet)						
A03090	Other BS + E & M Installation						
030 Outbound Kiosks, Section IX, Subject to Excision							
C03020	Pre-fabrication for the Steel Kiosks						
C03030	Superstructure						
Portion J Buildings							
024 Outbound Private Car Exam Building							
A02410	Raft Foundation						
A02420	Superstructure						
A02430	Finishing (KD9)						
A02440	BS for Office Accommodations (KD18F)						
A02450	BS + E&M for Office Accommodation (KD18G)						
A02460	Other BS + E & M Installation (KD31)						
Test & Commission							
D02410	Submission & Issue of WW046 I, II, III (Inside Services & FS)						

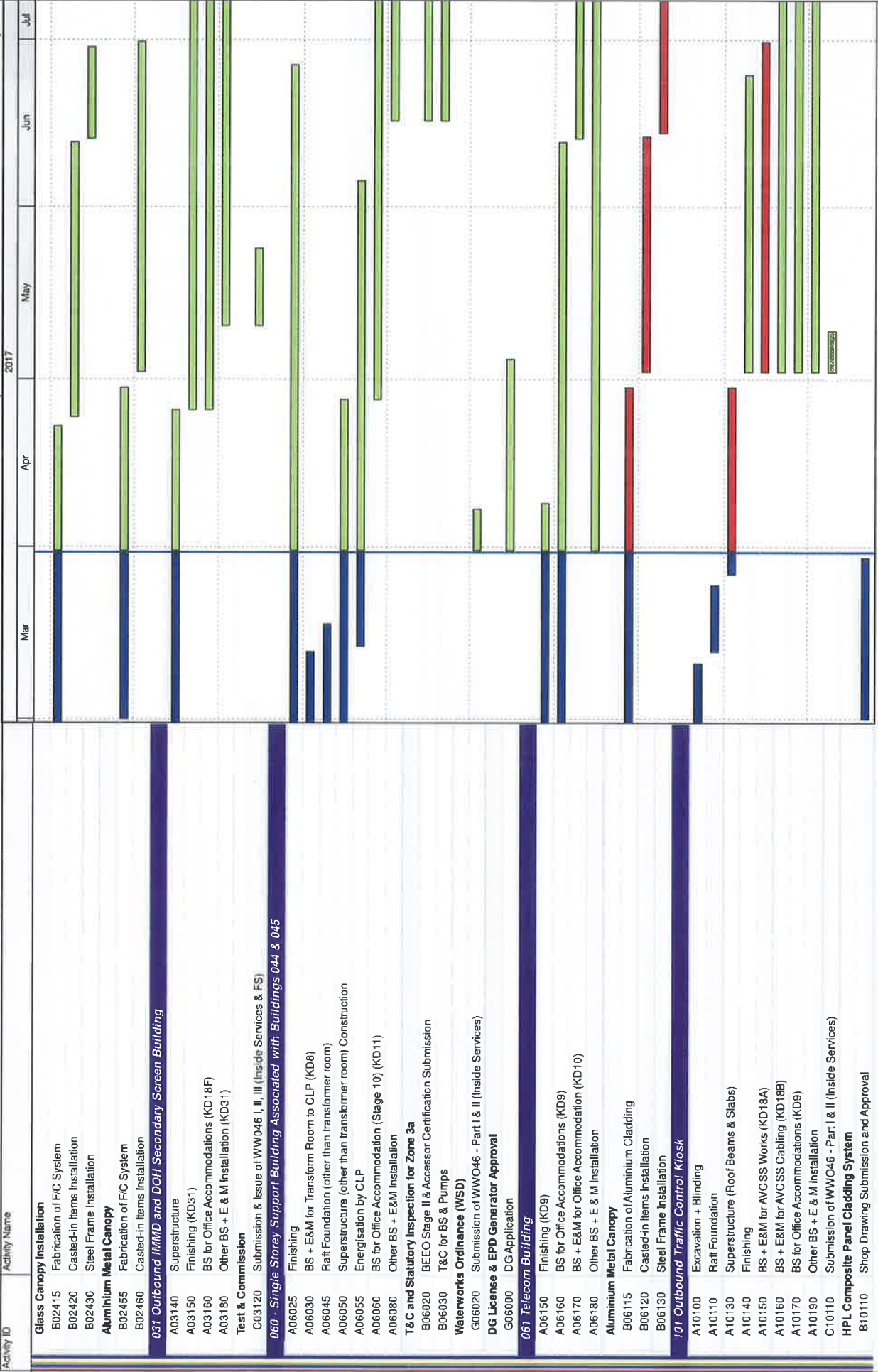
█ Actual Work
█ Remaining Work
█ Critical
◆ Milestone

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Actual Work	Remaining Work	Critical	Milestone
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Checked	Approved
ZJ	ZJ
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ZJ	ZJ

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID Activity Name 2017 Mar Apr May Jun Jul 03-Apr-17

Activity ID	Activity Name	2017	Mar	Apr	May	Jun	Jul
B10120	Fabrication of HPL Cladding						
B10130	Cased-in Items Installation						
205 - Outbound Private Car Mobile X-ray Operation Area							
ER5780	Radiation Screen Wall Construction						
External Works for Portion J							
Drainage Works							
ED4220	Drainage Works (1700m & 86MHs), Stage 1						
ED4340	Sewerage (425m & 11MHs), Stage 1						
ED5710	Drainage Works (1697m & 85MHs), Stage 2						
ED5720	Sewerage (425m & 12MHs), Stage 2						
Waterpipe Laying							
EW4230	Fresh Water Main Laying (770m), Stage 1 (Northern)						
EW4240	Flushing Water Main Laying (431m), Stage 1 (Northern)						
EW6140	Fresh Water Main Laying (771m), Stage 2 (Northern)						
EW6150	Flushing Water Main Laying (431m), Stage 2 (Southern)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5420	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
EU5430	Duct & Cable Laying for TCSS & Lighting						
Roadworks							
ER4320	Subbase (15400 ton), Stage 1 (Northern)						
ER4350	Bitumen Pavement (20000 ton), Stage 1 (Northern)						
ER4360	Rigid Pavement (173 m ³), Footpath & EVA, Stage 1 (Northern)						
Sign Gantry DS104							
ES0140	Sign Gantry DS104 P-bored Piling, 8 Nr.						
ES5130	Testing for P-bored Piles						
ES5150	Fabrication & Delivery of Sign Gantries to Site						
PORTION K, L, M, S & T							
Portion K Building							
002 - C&ED Observation Guard Booth No. 1, Portion K							
A00210	Excavation + Blinding						
A00220	Raft Foundation						
A00230	Superstructure						
002 - C&ED Observation Guard Booth No. 2, Portion K							
B00210	Excavation + Blinding						
B00220	Raft Foundation						
B00230	Superstructure						
Portion M Buildings							
108 - C&ED Mobile X-ray Operation Office, Portion M							
B10800	Excavation + Blinding						
B10810	Substructure (raft Foundation)						
B10840	Superstructure (Roof beams & Slabs)						
B10850	Finishing						
B10860	BS for Office Accommodations (KD9)						
HPL Composite Panel Cladding System							
C10820	Fabrication of HPL Cladding						
C10830	Cased-in Items Installation						
104 DOH Screening Station, at Portion M							
C10400	Excavation + Blinding						
C10430	Structure (Raft Foundation)						

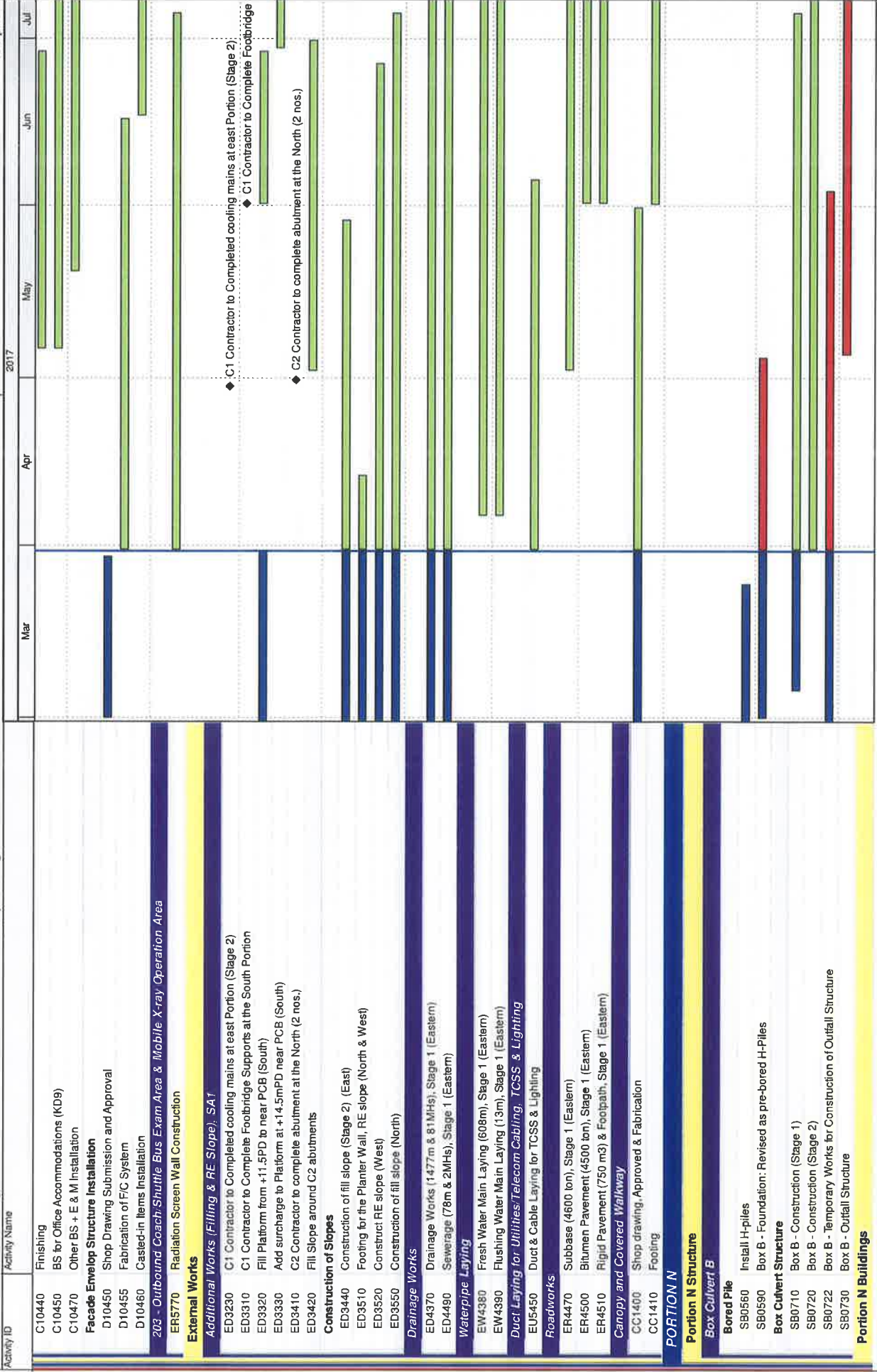
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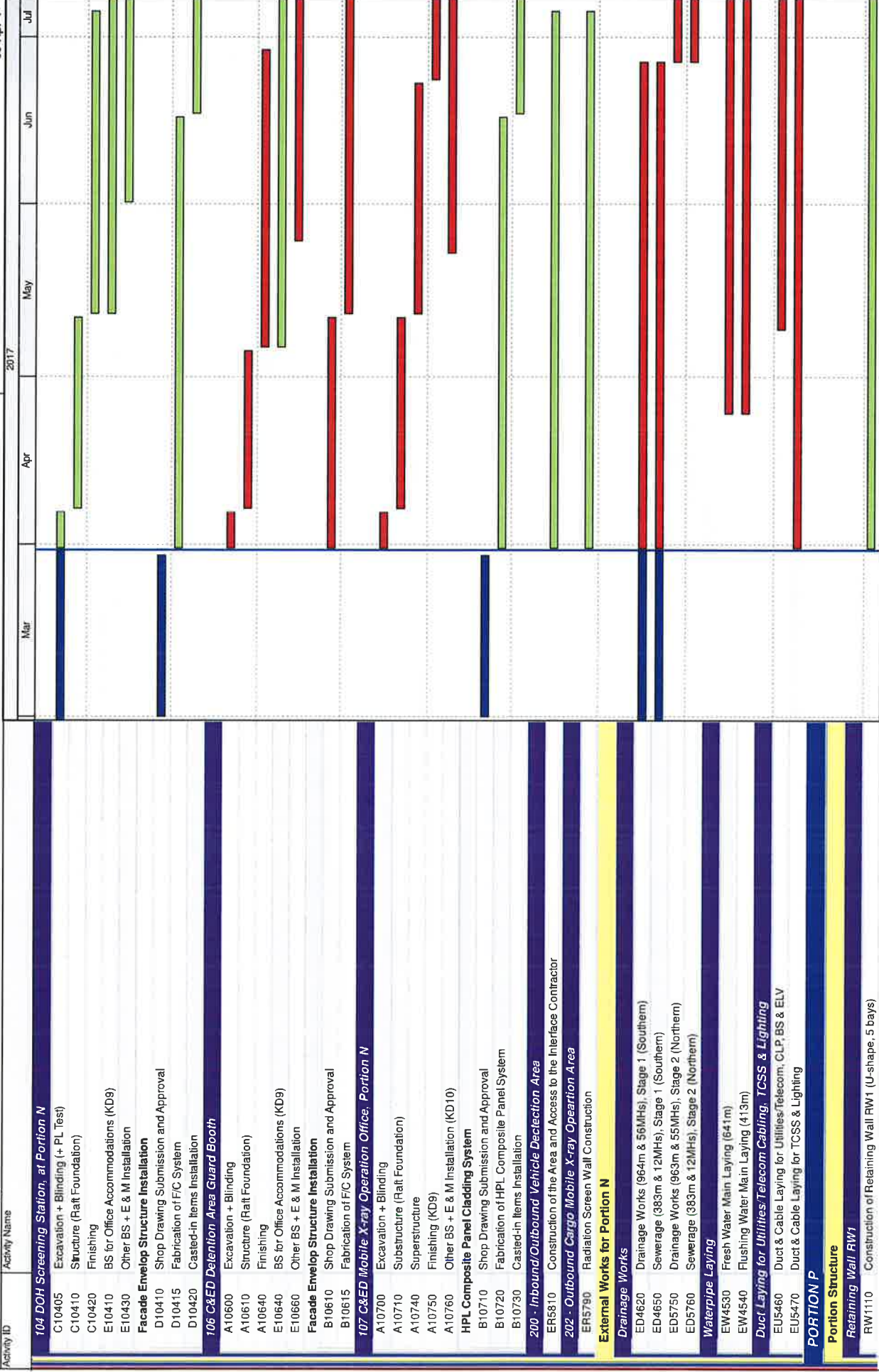


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█ Actual Work
█ Remaining Work
█ Critical
◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities



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Activity Name	2017				
	Mar	Apr	May	Jun	Jul
Portion P Buildings					
105 IMMID Guard Booth, Portion P					
A10510					
A10520					
A10530					
A10540					
E10500					
E10510					
E10520					
Facade Envelop Structure Installation					
A10560					
A10565					
A10570					
External Works for Portion P					
Drainage Works					
AS0160					
ED4670					
ED4790					
Waterpipe Laying					
EW4680					
EW4690					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting					
EU5640					
Roadworks					
ER4770					
ER4800					
ER4810					
PORTION Q					
External Works for Portion Q					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting					
ED5570					
ED5580					
EU1490					
Roadworks					
AS0170					
AS1810					
AS1820					
PORTION R					
Portion R Building					
002 - C&ED Observation Guard Booth, Portion R					
D00210					
D00220					
D00230					
External Works for Portion R					
Drainage Works					
AS0180					
ED4960					
ED5080					
Waterpipe Laying					

◆ Access date to Telephone Companies

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THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

	Actual Work
	Remaining Work
	Critical
	Milestone

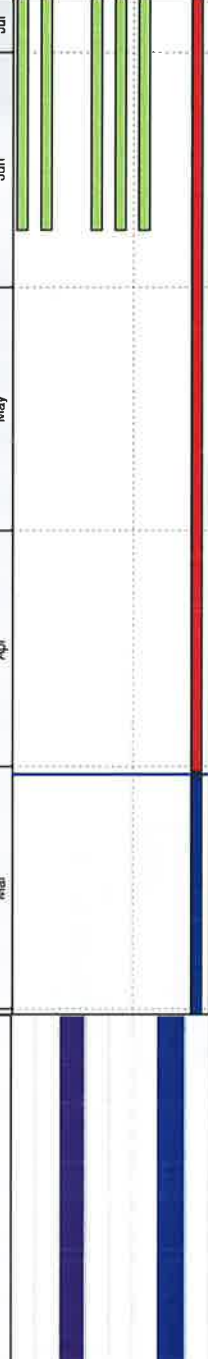
HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	2017					03-Apr-17
		Mar	Apr	May	Jun	Jul	

- EW4970 Fresh Water Main Laying (614m)
- EW4980 Flushing Water Main Laying (222m)
- Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting**
- EU5500 Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV
- EU5510 Duct & Cable Laying for TCSS & Lighting
- EU5610 ELV Installation

Landscape Works

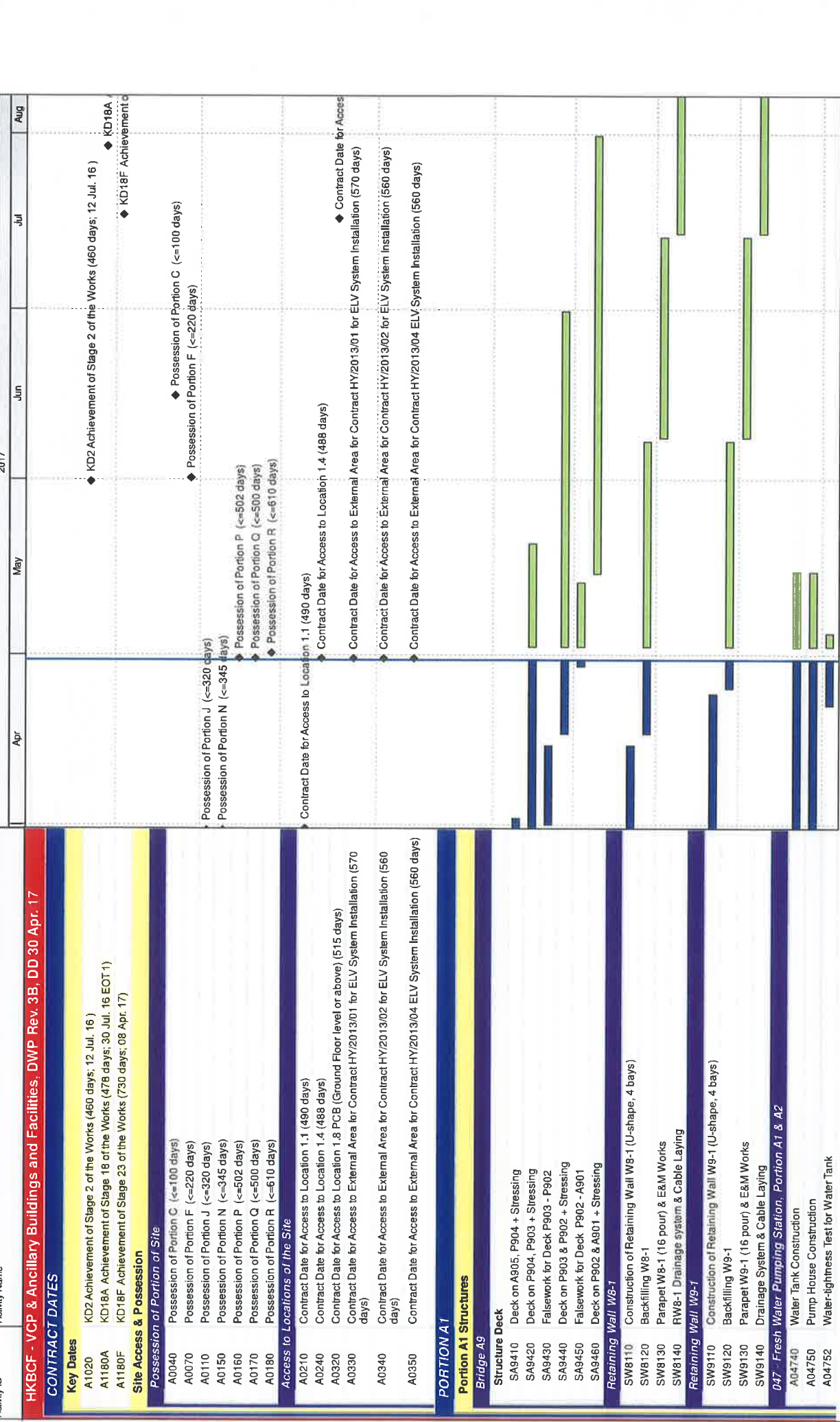
- A5170 Design and Procurement for Irrigation System



■ Actual Work
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Activity ID	Activity Name	Apr	May	2017	Jun	Jul	Aug
A04760	Parapet Wall at Roof Slab & Fishing						
A04770	BS Installation + E&M (Degree 2)						
A04780	BS Installation + E&M (Degree 3)						
A04790	T&C for BS & Pumps						
Test & Commission							
B04730	Submission & Issue of WW046 IV, V (Inside Services & FS)						
B04740	WSD Inspection						
049 - Sewage Treatment Plant, Portion A1 & A2							
B04990	Constructing Wall Stern for Equalization Tanks						
C04910	Water-tightness Test for Equalization Tanks						
D04985	Energyisation by CLP						
D04990	Other Ground Slab Construction						
E04910	Other Superstructure Construction						
E04940	BS for Office Accommodations (KD9) (Degree 2)						
T&C and Statutory Inspection							
F04910	Essential T&C (FS)						
F04950	Submission & Issue of WW046 IV, V (Inside Services & FS)						
F04960	WSD Inspection						
G04910	Discharge Licence Application						
Portion A1 Buildings							
012 - DOH Disinsection Area and Store Room 1, at Portion A1							
A01250	Finishing						
A01270	BS + E&M for Office Accommodation (Stage 9) (Degree 3)						
A01280	Other BS + E&M Installation						
A01285	DG Application						
Test & Commission							
C01210	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
C01220	Submission & Issue of WW046 IV, V (Inside Services & FS)						
C01250	OP Application & TPIDC Inspection						
036 - Weigh Station							
A03680	BS + E&M for Office Accommodation (Stage 9)						
A03690	Other BS + E&M Installation						
B03610	T&C for BS & Pumps						
Test & Commission							
B03630	Submission & Issue of WW046 IV, V (Inside Services & FS)						
B03640	Form 314 & 501 submission						
B03650	WSD Inspection						
B03660	FSD Inspection						
B03670	BEEC Stage II & Accessor Certification Submission						
B03680	OP Application & TPIDC Inspection						
037 C&ED Tower Cum Inbound Cargo Examination Building (Portion A1 & B)							
A03742C	Mock-up Sample for Mesh Screen Wall (SS41) & Balustrade						
A03744	Curtain Wall/Metal Roof/Aluminium Cladding Installation						
A03752	Floor Spread/Tiling						
A03756	Window/Door Frame Installation						
A03758	Paint Finish						
A03770	BS + E&M for AVCSS Cabling (KD18B)						
A03780	BS for Office Accommodation (KD9)						
A03785	BS for Office Accommodation (KD10)						
A03790	Other BS + E&M Installation						

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02-May-17

Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
Test & Commission						
B03710	T&C for BS & Pumps					
B03730	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B03750	Form 314 & 501 submission					◆ Form 314 &
B03760	Lit Inspection by EMSD					
B03770	WSD Inspection					
B03780	FSD Inspection					
B03790	Beam Plus Monthly Submission & Issue					
041 Fire Station Cum Ambulance Depot						
A04126	Cladding & Curtain Wall Installation (incl. steel & metal works)					
A04133	Wall Plastering/Wall Tiling					
A04134	Floor Screeding/Tiling/Mnyl Tiles					
A04135	Ceiling Wall Painting					
A04137	False Ceiling Installation					
A04140	BS for Office Accommodation (Stage 8)					
A04150	BS + E&M for Office Accommodation (Stage 9)					
A04160	Other BS + E&M Installation					
A04170	External Finishing					
A04180	C/S Plastering/Tiling					
Test & Commission						
B04110	T&C for BS & Pumps					
B04120	Submission & Issue of WW046 I, II, III (Inside services & FS)					
B04130	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B04140	Form 314 & 501 submission					◆ Form 314 & 501 submiss
B04150	Form LES Submission to EMSD					
C04130	Beam Plus Monthly Submission & Issue					
C04140	BEO Stage II & Accessor Certification Submission					
042 Drill Tower						
A04260	Finishing					
A04270	BS for Office Accommodation (Stage 8)					
A04280	BS + E&M for Office Accommodation (Stage 9)					
A04290	Other BS + E&M Installation					
Test & Commission						
B04210	BEO Stage II & Accessor Certification Submission					
B04220	T&C for BS Pumps					
B04230	WSD Inspection					
B04240	FSD Inspection					
B04250	OP Application & TPIDC Inspection					
043 DOH Office + Store Room						
A04370	Cladding & Curtain Wall Installation (incl. steel & metal works)					
A04380	BS for Office Accommodation (Stage 8)					
A04390	BS + E&M for Office Accommodation (Stage 9)					
B04310	Other BS + E&M Installation					
B04330	Stainless Steel Mesh Installation					
B04340	Metal Windows/Louvres/Doors/Railing etc. installation					
B04350	Blockworks					
B04360	Wall Plastering/Tiling					
B04370	Floor Screeding/Tiling					
B04380	False Ceiling Installation & Painting					
B04390	Carpentry (Wooden Doors/Partition/Lockers/Etc.)					

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Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
C04310	C/S Wall Plastering					
C04320	Paint Finishing to Walls					
Test & Commission						
C04330	T&C for BS & Pumps					
C04340	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
C04350	Submission & Issue of WW046 IV, V (Inside Services & FS)					
C04360	Form 2 Submission					
C04370	Form 314 & 501 submission					
C04380	DG application					
D04310	WSD Inspection					
D04350	BEE0 Stage II & Accessor Certification Submission					
052 - Transforms (Zone 4)						
A05235	Energisation by CLP					
A05270	Main Switch/L.V. Switch Board Installation					
T&C and Statutory Inspection						
B05210	T&C for BS & Pumps					
B05230	DG Inspection					
B05270	Non-Essential T&C (Non-FSI)					
B05280	OP Application & TPIDC Inspection					
Completion of Fire Services Installation and Equipment (FCD)						
C05210	Approved Building Plans					
105 - Immd Guard Booth, Portion A1 (Mock Up)						
B10510	Excavation + Blinding					
B10520	Substructure (Raft Foundation)					
B10530	On Grade Ground Slab					
B10540	Finishing					
B10550	BS for Office Accommodations (KD9)					
B10560	BS + E&M for Office Accommodation (KD10)					
B10570	Other BS + E & M Installation					
Facade Envelop Structure Installation						
B10580	Shop Drawing Submission and Approval					
B10590	Fabrication of FFC System					
C10510	Casted-in Items Installation					
C10520	Steel Frame Installation					
210 - Immd GV Secondary Examination Bays Inbound						
ER5830	Construction of the Area and Access to the Interface Contractor					
External Works for Portion A1						
Drainage Works						
ED5590	Drainage Works (774m & 35MHs), Stage 2 (Middle)					
ED5600	Sewerage (300m & 9MHs), Stage 2 (Middle)					
ED5610	Drainage Works (773m & 34MHs), Stage 3 (Eastern)					
ED5620	Sewerage (269m & 7MHs), Stage 3 (Eastern)					
Waterpipe Laying						
EW5010	Fresh Water Main Laying (700 m), Stage 1 (Western)					
EW6010	Flushing Water Main Laying (322 m), Stage 1 (Western)					
EW6020	Fresh Water Main Laying (700 m), Stage 2 (Middle)					
EW6030	Flushing Water Main Laying (322 m), Stage 2 (Middle)					
EW6040	Fresh Water Main Laying (260 m), Stage 3 (Eastern)					
EW6050	Flushing Water Main Laying (323m), Stage 3 (Eastern)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						

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Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
EU5260	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5270	Duct & Cable Laying for TCSS & Lighting					
Roadworks						
ER1520	Subbase (8500 ton), Stage 1 (Western)					
ER3540	Bitumen Pavement (10000 ton), Stage 1 (Western)					
ER3550	Rigid Pavement (900 m3), Footpath & EVA, Stage 1 (Western)					
Road Furniture						
ER0800	ELV Installation					
PORTION A2						
Portion A2 Structures						
046 - Refuse Collection Point, Portion A2						
A04610	Raft Foundation					
A04620	Superstructure w/2 water tank					
A04630	BS for Office Accommodations (Stage 8) (KD9)					
A04660	Other BS + E&M Installation					
Test & Commission						
B04620	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
B04630	Submission & Issue of WW046 IV, V (Inside Services & FS)					
048 - Reclaimed Water Pumping Station, Portion A2						
B04810	Superstructure Construction					
B04820	BS for Office Accommodations (Stage 8) (KD9)					
B04830	BS + E&M for Office Accommodation (Stage 9) (KD10)					
B04840	Other BS + E&M Installation					
Test & Commission						
B04850	T&C for BS & Pumps & SWT					
B04860	DG Application					
B04880	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
Retaining Wall W9-2						
SW9210	Construction of Retaining Wall W9-2 (U-shape, 6 bay)					
SW9220	Backfilling for Retaining Wall W9-2					
External Works for Portion A2						
Drainage Works						
ED5630	Drainage Works (228m & 15MHs)					
ED5640	Sewerage (322m & 9MHs)					
Waterpipe Laying						
EW6060	Fresh Water Main Laying (336m)					
EW6070	Flushing Water Main Laying (91m)					
Duct Laying for Utilities/Telecom, TCSS & Lighting						
EU5280	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5290	Duct & Cable Laying for TCSS & Lighting					
Road Furniture						
ER2340	ELV Installation					
PORTION B						
Portion B Structures						
Retaining Wall W7-2						
S70930	Retaining Wall W7-2 Backfilling					
S70910	C3-S6 Slopeworks					
S70970	Retaining Wall W7-2 Parapet (2 pour) & E&M Works					
S70980	Retaining Wall W7-2 Drainage System & Cable Laying					

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Activity ID	Activity Name	2017				02-May-17
		Apr	May	Jun	Jul	
Retaining Wall W6-1						
S62060	Retaining Wall W6-1 Backfilling					
S62070	Retaining Wall W6-1 Parapet (8 pour) & E&M Works					
S62080	Retaining Wall W6-1 Drainage System & Cable Laying					
S62210	Retaining Wall W6-1 Bituminous Paving (347 ton) (KD25)					
Bay 25 - 29 of CUE/Staff Subway						
C02960	Internal Finishes & Cable Containment (KD1)					
C02970	BS + E&M Installation for AVCSS (KD1)					
Portion B Buildings						
027 028 Inbound Kiosks & 029 Outbound Kiosks						
A02720	Superstructure					
A02730	Construction of Subway Entrance					
A02740	Construction of Subway Toilets					
A02750	Finishing					
A02760	BS for Office Accommodation (Stage 8)					
A02780	BS + E&M for AVCSS Works (KD18A)					
A02790	BS + E&M for AVCSS Cabling (KD18B)					
B02720	Other BS + E&M Installation					
Test & Commission						
B02830	Submission & Issue of WW046 IV, V (Inside Services & FS)					
027 028 Inbound Kiosks & 029 Outbound Kiosks, Section IX. Subject to Excision						
B02740	Pre-fabrication for the Steel Kiosks					
B02750	Superstructure					
B02760	BS + E&M for AVCSS Works (KD18C)					
B02770	BS + E&M for AVCSS Works (KD18D)					
B02780	BS + E&M for allowing users to move in furniture (KD18E)					
026 Inbound IIMM and DOH Secondary Screening Building						
A02640	Finishing					
A02650	Contractor's Design Submission for SS Mesh Screen & Approval					
A02660	Contractor's Design Submission for Aluminium Cladding & Approval					
A02670	BS for Office Accommodation (Stage 8)					
A02680	BS + E&M for Office Accommodation (Stage 9)					
A02690	Other BS + E&M Installation					
Test & Commission						
B02630	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B02650	TC for BS & Pumps					
B02690	Lift Inspection by EMSD					
054 Inbound Fixed X-ray Building						
A05460	Finishing					
A05467	Energisation by CLP					
A05470	BS for Office Accommodation (Stage 8)					
A05480	BS + E&M for Office Accommodation (Stage 9)					
A05490	Other BS + E&M Installation					
T&C and Statutory Inspection for Zone 4a						
B05420	T&C for BS & Pumps					
B05440	Lift Inspection by EMSD					
Waterworks Ordinance (WSD)						
G05410	Approval Letter and approved Drawings					
038 AFCD Office						
A03850	Finishing + Curtain Wall Installation					

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◆ Approval Letter and approved Drawings

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02-May-17

Activity ID	Activity Name	2017				
		Apr	May	Jun	Jul	Aug
A03870	BS for Office Accommodation (Stage 8)					
A03880	BS + E&M for Office Accommodation (Stage 9)					
A03890	Other BS + E&M Installation					
Test & Commission						
B03810	T&C for BS & Pumps					
B03830	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
C03820	Form 2 Submission					
C03860	BEE0 Stage II & Accessor Certification Submission					
039 Police Main Building						
A03940	Finishing + Curtain Wall Installation					
A03950	BS for Office Accommodation (Stage 8), & for TCSS works (KD14)					
A03960	BS + E&M for Office Accommodation (Stage 9)					
A03970	Other BS + E&M Installation					
Test & Commission						
B03920	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
B03930	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B03940	BEE0 Stage II & Accessor Certification Submission					
B03950	Beam Plus Monthly Submission & Issue					
C03950	Form 2 Submission					
C03970	T&C for BS & Pumps					
040 Incident Control Tower						
A04050	Finishing (KD9)					
A04060	BS for Office Accommodation (Stage 8), & for TCSS works (KD14)					
A04070	BS + E&M for Office Accommodation (Stage 9)					
Facade Cladding System						
B04020	Fabrication of F/C System					
B04030	Casted-in Items Installation					
B04040	Steel Frame Installation					
B04050	Cladding Panel Installation					
Glass Wall						
C04020	Fabrication of Glass Wall					
C04030	Casted-in Items Installation					
C04040	Steel Frame Installation					
Test & Commission						
D04030	T&C for BS & Pumps					
D04040	Form 2 Submission					
102 HKPF JVSS Monitor Room						
A10230	Finishing (False Ceiling) (KD9)					
A10240	BS for Office Accommodation (Stage 8)					
A10260	BS + E&M for Office Accommodation (Stage 9)					
A10270	Other BS + E&M Installation					
C10210	WWO 46 Part I, II, III Submission (inside Service + FS)					
C10240	FSI Form 314 & 501 Submission					
Metal Canopy and Roof Installation						
B10212	Fabrication of MC/R					
B10220	Casted-in Items Installation					
B10230	Steel Frame Installation					
B10240	Glass panel, metal cladding panel installation					
103 Police Inspection Post						
A10350	Finishing (False Ceiling) (KD9)					

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

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Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
A10360	BS for Office Accommodation (Stage 8)					
A10370	BS + E&M for Office Accommodation (Stage 9)					
A10380	Other BS + E&M Installation					
C10320	WVO 46 Part I, II, III Submission (inside Service + FS)					
HPL Composite Panel Cladding System						
B10320	Fabrication of HPL Cladding					
B10330	Casted-in Items Installation					
B10340	Steel Frame Installation					
057 Transformers (Zone 2)						
A05740	Finishing					
A05755	Engraving by CLP					
A05760	BS for Office Accommodation (Stage 8)					
A05770	BS + E&M for Office Accommodation (Stage 8)					
A05780	Other BS + E&M Installation					
T&C and Statutory Inspection for Zone 2a & 2b						
G05700	T&C for BS & Pumps					
F05700	Essential T&C (FSI)					
F05710	Non-Essential T&C (Non-FSI)					
Completion of Fire Services Installation and Equipment (FCP)						
F05740	Provision of Approved Building Plans by the Engineer					
F05750	Application for FSI Inspection (FSI/501) c/w FSI Plan (FSI/314)					
F05760	Provision of Direct Link for Fire Alarm System by Chubb					
F05770	FSI Inspection (2 Trials)					
DG License & EPD Generator Approval						
G05710	Approval Letter and approved Drawings					
G05730	DG Inspection					
107 - C&ED Mobile X-ray Operation Office (Cargo), Portion B						
C10740	Finishing					
C10750	BS for Office Accommodation (Stage 8)					
C10760	BS + E&M for Office Accommodation (Stage 9)					
C10770	Other BS + E&M Installation					
C10780	T&C for BS & Pumps					
113 - Field Kiosk for Access Control, Portion B						
B11330	Superstructure (Root Beams & Slabs)					
B11340	Finishing					
B11350	BS for Office Accommodation (Stage 8)					
B11370	Other BS + E&M Installation					
B11380	T&C for BS & Pumps					
201 - Inbound Cargo Mobile X-ray Operation Area						
ER5740	Radiation Screen Wall Construction					
ER5850	Construction of the Area and Access to the Interface Contractor					
205 - Inbound Private Car Mobile X-ray Operation Area						
ER5750	Radiation Screen Wall Construction					
ER5860	Construction of the Area and Access to the Interface Contractor					
External Works for Portion B						
Works in Location 1.7A						
BB1480	ELV Works & T&C in Location 1.7A					
Works in Location 1.7B						
BB1490	ELV Works & T&C in Location 1.7B					
Drainage Works						

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Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
ED5670	Drainage Works (1130m & 60MHs), Stage 3					
ED5680	Sewerage (300m & 6MHs), Stage 3					
ED5690	Drainage Works (1130m & 60MHs), Stage 4					
ED5700	Sewerage (300m & 6MHs), Stage 4					
Waterpipe Laying						
EW6080	Fresh Water Main Laying (500m), Stage 2					
EW6090	Flushing Water Main Laying (460m), Stage 2					
EW6100	Fresh Water Main Laying (1000m), Stage 3					
EW6110	Flushing Water Main Laying (931m), Stage 3					
EW6190	Chilled Water Pipe Laying in Portion B (external)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5300	Duct & Cable Laying for Utilities/Telecom, CLR, BS & ELV					
EU5310	Duct & Cable Laying for TCSS & Lighting					
EU5550	ELV Installation					
Roadworks						
ER1640	Subbase (10000 ton), Stage 1 (NW)					
ER3590	Bitumen Pavement (14000 ton), Stage 1 (NW)					
ER3600	Rigid Pavement (594 m3), Footpath & EVA, Stage 1 (NW)					
ER5590	Subbase (11000 ton), Stage 2 (N/E)					
ER5600	Bitumen Pavement (15000 ton), Stage 2 (N/E)					
ER5610	Rigid Pavement (594 m3), Footpath & EVA, Stage 2 (N/E)					
ER5620	Subbase (11000 ton), Stage 3 (SW)					
Road Furniture						
ER1620	Road Furniture					
Sign Gantry ADS 306A & ADS 306B						
ESS240	Fabrication & Delivery of Sign Gantrys to Site					
PORTION C						
Portion C Buildings						
010 - Inbound Coach Kiosk & Staff Subway Entrance						
A01010	Substructure and Staircase Construction					
009 - Staff Subway Entrance (Bay 0 - 3) & Shuttle Bus Kiosks						
B00920	Kiosk superstructure					
B00930	BS + E&M for AVCSS works (KD18A)					
B00940	BS + E&M for AVCSS Cabling (KD18B)					
012 - DOH Disinsection Area and Store Room 1, at Portion C						
B01210	Excavation & Blinding					
B01220	Raft Foundation					
B01230	Superstructure					
104 - DOH Secondary Screening Station, at Portion C						
Facade Cladding System						
A10460	Shop Drawing Submission and Approval					
A10465	Fabrication of FC System					
108 C&E Mobile X-ray Machine Operation Office, Portion C						
A10805	Excavation & Blinding					
A10810	Raft Foundation					
A10840	Superstructure (Roof Beams & Slabs)					
A10850	Finishing					
A10860	BS for Office Accommodation (Stage 8)					
A10890	Other BS + E&M Installation					

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- █ Remaining Work
- █ Critical
- ◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID Activity Name 2017 02-May-17

Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
HPL Composite Panel Cladding System						
A10800	Shop Drawing Submission and Approval					
A10815	Fabrication of HPL Cladding					
110 IMMED Guard Booth (Type 2) East						
A11020	Excavation & Blinding					
A11030	Substructure					
A11080	Finishing					
A11090	BS for Office Accommodation (Stage 8)					
B11020	Other BS + E&M Installation					
Facade Envelop Structure Installation						
A11040	Shop Drawing Submission and Approval					
A11045	Fabrication of F/C System					
A11050	Casted-in Items Installation					
111 Field Kiosk for Carpark Operator						
A11120	Excavation & Blinding					
A11130	Raft Foundation					
A11140	Superstructure (Roof beams & Slabs)					
HPL Composite Panel Cladding System						
B11110	Shop Drawing Submission and Approval					
B11120	Fabrication of HPL Cladding					
B11130	Casted-in Items Installation					
113 - Field Kiosk for Access Control, Portion C						
C11310	Excavation & Blinding					
C11320	Raft Foundation					
C11330	Superstructure (Roof Beams & Slabs)					
204 - Inbound Coach Exam Area & Mobile X-ray Operation						
ER5760	Radiation Screen Wall Construction					
ER5880	Construction of the Area and Access to the Interface Contractor					
External Works for Portion C						
Works in Location 1.2, 1.8 & 011 - Emergency Generator Building						
BB1440	Works & T&C in Location 1.2					
BB1460	ELV System Installations and T&C for Contract HY2013/01					
BB1470	Provisioning of Civil Engineering Works for 011 - Emergency Generator Building (KD18)					
Drainage Works						
B00040	Initial Survey					
SG2400	Drainage Works (400m & 18MHs), Stage 1 (Eastern)					
SG3610	Sewerage (90m & 2MHs), Stage 1 (Eastern)					
Waterpipe Laying						
SW2410	Fresh Water Main Laying (135m), Stage 1 (Eastern)					
SW2420	Flushing Water Main Laying (50m), Stage 1 (Eastern)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
SU5320	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
PORTION D						
Portion D Building						
114 - Field Kiosk for Access Control, Portion D						
C11360	Raft Foundation					
C11370	Superstructure (Roof Beams & Slabs)					
C11380	Finishing					
D11340	BS for Office Accommodation (Stage 8)					

<p>THREE MONTH ROLLING PROGRAMME</p> <p>VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES</p> <p>Page 10 of 21</p>		<p>Date</p> <p>28-Feb-17 3MRP updated as of 28 Feb. 2017</p> <p>31-Mar-17 3MRP updated as of 31 Mar. 2017</p> <p>30-Apr-17 3MRP updated as of 30 Apr. 2017</p>	<p>Revision</p> <p>ZJ</p> <p>ZJ</p> <p>ZJ</p>	<p>Checked</p> <p>ZJ</p> <p>ZJ</p> <p>ZJ</p>	<p>Approved</p>
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Activity ID	Activity Name	2017				02-May-17
		Apr	May	Jun	Jul	
D11360	Other BS + E&M Installation					
External Works for Portion D						
<i>Drainage Works</i>						
SG3640	Drainage Works (361m & 1.4MHs)					
SG3760	Sewerage (121m & 6MHs)					
<i>Waterpipe Laying</i>						
SW3650	Fresh Water Main Laying (108m)					
<i>Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting</i>						
SU5340	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
SU5350	Duct & Cable Laying for TCSS & Lighting					
SU5640	Access date to Telephone Companies					
<i>Roadworks</i>						
SR3740	Subbase (261 ton)					
SR3770	Bitumen Pavement (619 ton)					
PORTION E						
006 - Shuttle Bus Kiosk & Staff Subway Entrance, at Portion E & M						
A00630	Constructing wall stem + top slab of Subway					
A00640	Backfilling					
A00650	Constructing Ground Slab					
A00660	Constructing Kiosk (4 Nr)					
A00670	Constructing Subway Entrance					
A00690	BS + E&M for AVCSS works (KD188)					
B00640	Other BS + E&M Installation					
External Works for Portion E						
<i>Drainage Works</i>						
SG3780	Drainage Works (99m & 5MHs)					
SG3900	Sewerage (38m & 1 MH)					
<i>Waterpipe Laying</i>						
SW3790	Fresh Water Main Laying (45m)					
SW3800	Flushing Water Main Laying (25m)					
<i>Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting</i>						
SU5360	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
SU5370	Duct & Cable Laying for TCSS & Lighting					
<i>Roadworks</i>						
SR3880	Subbase (1659 ton)					
PORTION F						
External Works for Portion F						
<i>Drainage Works</i>						
B00070	Initial Survey					
SG3930	Drainage Works (122m & 9MHs)					
SG4050	Sewerage (70m & 3MHs)					
<i>Waterpipe Laying</i>						
SW3940	Fresh Water Main Laying (205m)					
<i>Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting</i>						
SU5380	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
SU5390	Duct & Cable Laying for TCSS & Lighting					
PORTION G, H1 & H2						
Portion G Structures						

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Activity Name	Apr	May	Jun	Jul	Aug
Box Culvert C					
Box Culvert Structure					
SC0310 Box C - Branch Construction					
SC0320 Box C - Branch Backfilling					
SC0380 Box C - Construction of Main Body					
SC0390 Box C - Back filling					
Bridge A1					
Structure Deck					
SA1450 Falsework for Deck P101, P102					
SA1460 Deck on P101, P102 + Stressing					
SA1510 Deck on P105, A106 + Stressing					
SA1520 Parapet (42 pour), E&M works & installation of DS38 & DS39					
Bridge A2					
Structure Deck					
SA2450 Falsework for Deck P201 - P202					
SA2460 Deck on P201 & P202 + Stressing					
SA2470 Parapet (36 pour), E&M Works & installation of DS49					
Bridge A3					
Structure Deck					
SA3460 Deck on P303, P304a/P304b + Stressing					
SA3480 Deck on P304a, A305 + Stressing					
SA3510 Parapet (56 pour), E&M Works & installation of DS51					
Bridge A4					
Structure Deck					
SA4420 Deck on P502b, P401 + Stressing					
SA4440 Deck on P401, P402 + Stressing					
SA4460 Deck on P304b, P401, P402 + Stressing					
SA4470 Parapet (35 pour), E&M Works					
Bridge A5					
Structure Deck					
SA5480 Deck on P502a, P502b & P503 + Stressing					
SA5520 Deck on P506 & P507 + Stressing					
SA5540 Deck on A501 & P502a + Stressing					
SA5550 Falsework for Deck P507 - P508a, P508b					
SA5560 Deck on P507 & P508a, P508b + Stressing					
SA5580 Parapet (65 pour), E&M Works installation of ADS 304A					
Bridge A6					
Structure Deck					
SA6480 Deck on P604, P605 + Stressing					
SA6530 Deck on P606 & A607 + Stressing					
SA6540 Parapet (50 pour) & E&M Works					
Bridge A7a, A7b, A7c					
Structure Deck					
SA7790 Deck on P703, P704 (Bridge A7a) + Stressing					
SA7820 Deck on P702, P703 (Bridge A7 a) + Stressing					
SA7830 Falsework for Deck A701, P702					
SA7840 Deck on A701, P702 (Bridge A7a) + Stressing					
SA7940 Parapet for Bridge A7b (8 pour) & E&M Works					
SA7950 Parapet for Bridge A7c (38 pour) & E&M Works					
SA7960 Parapet for Bridge A7a (48 pour) & E&M Works					

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

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Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
SA7980	Bituminous Paving for A7c (400 ton)(KD25)					
SA7980	Bituminous Paving for A7a (400 ton) (KD25)					
Bridge A8						
Structure Deck						
SA8460	Deck on P803, A804 + Stressing					
SA8470	Parapet (26 Pour) & E&M works					
Retaining Walls W1-1, W3-1, W5-1 & W7-1						
Retaining Wall W1-1						
SW1110	Construction of Retaining Wall W1-1 (L-shape, 4 bays)					
SW1120	Retaining Wall W1-1 Backfilling					
Retaining Wall W3-1						
SW3150	Construction of Retaining Wall W3-1 (U-shape, 4 bays)					
SW3160	Backfilling W3-1					
Retaining Wall W5-1						
SW5010	Construction of Retaining Wall W5-1 (L-shape, 5 bays)					
Retaining Wall W7-1						
SW7110	Construction of Retaining Wall W7-1 (U-shape, 4 bays)					
Portion G Buildings						
002 - C&ED Observation Guard Booth No. 1, Portion H1						
C00220	Excavation + Blinding					
C00230	Raft Foundation					
C00240	Superstructure					
002 - C&ED Observation Guard Booth No. 2, Portion H1						
E00210	Excavation + Blinding					
E00220	Raft Foundation					
E00230	Superstructure					
033 Inbound Private Car Exam Building						
A03330	Finishing					
A03360	External Works					
A03370	BS for Office Accommodation (Stage 8)					
A03380	BS + E&M for Office Accommodation (Stage 9)					
A03390	Other BS + E&M Installation					
C03310	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
Glass Canopy Installation						
B03305	Fabrication of Glass Canopy					
B03360	Steel Frame Installation					
Aluminium Metal Canopy						
B03315	Fabrication of F/C System					
B03320	Casted-in Items Installation					
B03330	Steel Frame Installation					
B03340	Aluminium Cladding Installation					
034 Satellite RCP South						
A03450	Finishing					
A03460	BS for Office Accommodation (Stage 8)					
A03470	BS + E&M for Office Accommodation (Stage 9)					
A03480	Other BS + E&M Installation					
Test & Commission						
C03420	Submission & Issue of WW046 IV, V (Inside Services & FS)					
C03430	Form 314 & 501 submission					
C03440	T&C for BS & Pumps					

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◆ Form 314 & 501 submission

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Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
C03450	WSD Inspection					
C03460	FSD Inspection					
C03470	OP Application & TP/DC Inspection					
S S Facade Greenery System						
B03415	Fabrication of SS F/G System					
B03420	Casted-in Items Installation					
B03430	Steel Frame Installation					
035 - Sewage Pumping Station, Portion G						
A03590	Water-tightness Test for Wet Wells					
B03540	Constructing Basement Wall & G/F Slab					
B03550	Water-tightness Test for Inlet Chamber					
B03560	Superstructure works					
B03570	Backfilling					
B03580	BS for Office Accommodations (KD9)					
B03590	BS + E&M for Office Accommodation (KD10)					
C03510	Other BS + E & M Installation					
Test & Commission						
C03530	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
C03550	Form 314 & 501 submission					
051 Transformers (Zone 5)						
A05150	Finishing					
A05165	Energisisation by CLP					
A05170	BS for Office Accommodations (KD9)					
A05180	BS + E&M for Office Accommodation (KD10)					
A05190	Other BS + E & M Installation					
T&C and Statutory Inspection for Zone 5						
C05120	T&C for BS & Pumps					
C05130	Essential T&C (FS)					
C05140	Non-Essential T&C (Non-FS)					
100 Inbound Traffic Control Kiosk						
A10050	Finishing					
A10070	BS + E&M for AVCS Works (KD18A)					
B10060	BS + E&M for AVCS Cabling (KD18B)					
B10070	BS for Office Accommodations (KD9)					
B10090	Other BS + E & M Installation					
C10010	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
C10030	Form 314 & 501 submission					
C10040	T&C for BS & Pumps SWT					
HPL Composite Panel Cladding System						
B10015	Fabrication of FC System					
B10020	Casted-in Items Installation					
112 Field Kiosk for Taxi Queuing Area						
A11240	Finishing					
A11250	BS + E & M Installation					
A11260	T&C for BS & Pumps SWT					
External Works for Portion G, H1 & H2						
ELV Works within Portion H2 in the Hong Kong Side PTI						
EU1550	ELV Works within Portion H2 in the Hong Kong Side PTI (KD19)					
Works within Portion H1 & H2 except the ELV Works in the Hong Kong Side PTI						
EU1560	Drainage & Sewerage Works within Portion H1 & H2 in the Hong Kong Side PTI (KD20)					

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Actual Work
 Remaining Work
 Critical
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Activity ID	Activity Name	2017				02-May-17
		Apr	May	Jun	Jul	
All Works within the Boundary defined in Drawing No. 60191048/C3/000/C00/1050						
BEU1570	Drainage & Sewerage Works (incl. CLP) within the Boundary defined in Drawing No. 60191048/C3/000/1050					
BEU1580	Roadworks within the Boundary defined in Drawing No. 60191048/C3/000/1050, excluding Portion H1 & H2 & Bridges (KD24)					
Waterpipe Laying						
EW4080	Fresh Water Main Laying (1689m)					
EW4090	Flushing Water Main Laying (411m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5410	Duct & Cable Laying for TCSS & Lighting					
EU5560	ELV Installation					
Roadworks						
ER4170	Subbase (17045 ton)					
ER4200	Bitumen Pavement (24549 ton)					
ER4210	Rigid Pavement (514 m ³), Footpath & EVA					
Road Furniture						
ER4150	Road Furniture					
Sign Gantry DS40, DS41 & DS75						
ES0080	Testing for Pre-bored H Piling					
ES0180	Fabrication & Delivery of Sign Gantries to Site					
Canopy and Covered Walkway						
CC1310	Shop drawing, Approved & Fabrication					
CC1320	Forming					
CC1330	Steel Frame Installation					
PORTION J						
Portion J Structure						
Bay 30 - 41 of CUE/Staff Subway (Portion J)						
B03260	Internal Finishes & Cable Containment (KD2)					
030 Outbound Private Car & GV Kiosks						
A03020	Pre-fabrication for the Steel Kiosks					
A03030	Superstructure (incl. Entrance & Toilet)					
A03050	Finishing					
A03060	BS + E&M for AVCSS Works (KD18E)					
A03070	BS for Office Accommodations (KD9)					
A03090	Other BS + E & M Installation					
Portion J Buildings						
024 Outbound Private Car Exam Building						
A02420	Superstructure					
A02430	Finishing (KD9)					
A02440	BS for Office Accommodations (KD18F)					
A02450	BS + E&M for Office Accommodation (KD18G)					
A02460	Other BS + E & M Installation (KD31)					
Test & Commission						
D02410	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
Glass Canopy Installation						
B02415	Fabrication of F/C System					
B02420	Casted-in Items Installation					
B02430	Steel Frame Installation					
B02440	Glass Panel Installation					

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

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Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
Aluminium Metal Canopy						
B02455	Fabrication of F/C System					
B02460	Casted-in Items Installation					
B02470	Steel Frame Installation					
B02480	Aluminium Cladding Installation (KD31)					
031 Outbound IMMB and DOH Secondary Screen Building						
A03140	Superstructure					
A03150	Finishing (KD31)					
A03160	BS for Office Accommodations (KD18F)					
A03170	BS + E&M for Office Accommodation (KD18G)					
A03180	Other BS + E & M Installation (KD31)					
Test & Commission						
C03120	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
C03170	T&C for BS & Pumps					
060 - Single Storey Support Building Associated with Buildings 044 & 045						
A06025	Finishing					
A06050	Superstructure (other than transformer room) Construction					
A06055	Energisation by CLP					
A06060	BS for Office Accommodation (Stage 10) (KD11)					
A06080	Other BS + E&M Installation					
T&C and Statutory Inspection for Zone 3a						
B06020	BEE0 Stage II & Accessory Certification Submission					
B06030	T&C for BS & Pumps					
B06060	Essential T&C (FSI)					
B06070	Non-Essential T&C (Non-FSI)					
B06080	OP Application & TP-IDC Inspection					
Waterworks Ordinance (WSD)						
G06020	Submission of WW046 - Part I & II (Inside Services)					
DG License & EPD Generator Approval						
G06000	DG Application					
061 Telecom Building						
A06150	Finishing (KD9)					
A06160	BS for Office Accommodations (KD9)					
A06170	BS + E&M for Office Accommodation (KD10)					
A06180	Other BS + E & M Installation					
Aluminium Metal Canopy						
B06115	Fabrication of Aluminium Cladding					
B06120	Casted-in Items Installation					
B06130	Steel Frame Installation					
B06140	Aluminium Cladding Installation					
101 Outbound Traffic Control Kiosk						
A10130	Superstructure (Roof Beams & Slabs)					
A10140	Finishing					
A10150	BS + E&M for AVCSS Works (KD18A)					
A10160	BS + E&M for AVCSS Cabling (KD18B)					
A10170	BS for Office Accommodations (KD9)					
A10180	BS + E&M for Office Accommodation (KD10)					
A10190	Other BS + E & M Installation					
C10110	Submission of WW046 - Part I & II (Inside Services)					
HPL Composite Panel Cladding System						

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	Actual Work
	Remaining Work
	Critical
	Milestone

Contract No.: HY2013/03

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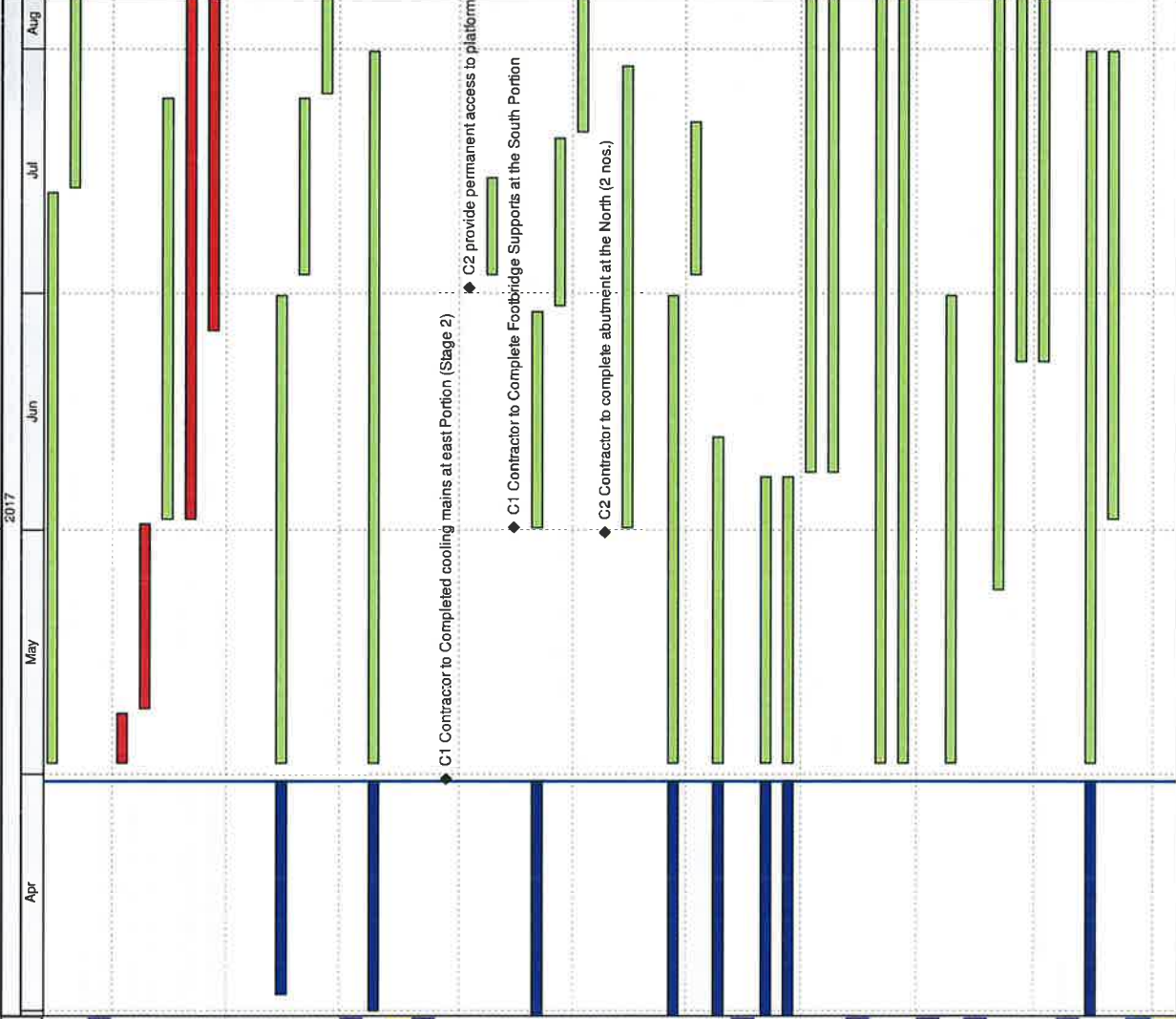
Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
B10110	Shop Drawing Submission and Approval					
B10120	Fabrication of HPL Cladding					
B10130	Casted-in Items Installation					
206 - Outbound Private Car Mobile X-ray Operation Area						
ER5780	Radiation Screen Wall Construction					
ER5800	Construction of the Area and Access to the Interface Contractor					
External Works for Portion J						
Works in Location 1.7B						
EU1500	ELV Works & T&C in Location 1.7B					
Works in Location 1.7C						
EU1530	ELV Works & T&C in Location 1.7C					
Drainage Works						
ED4220	Drainage Works (1700m & 86MHs), Stage 1					
ED4340	Sewerage (425m & 11MHs), Stage 1					
ED5710	Drainage Works (1697m & 85MHs), Stage 2					
ED5720	Sewerage (425m & 12MHs), Stage 2					
Waterpipe Laying						
EW4230	Fresh Water Main Laying (1541m)					
EW4240	Flushing Water Main Laying (862m)					
SW9280	Chilled Water Pipe Laying in Portion C (external)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5570	ELV Installation					
Roadworks						
ER4320	Subbase (15400 ton), Stage 1					
ER4350	Bitumen Pavement (20000 ton), Stage 1					
ER4360	Rigid Pavement (173 m3), Footpath & EVA, Stage 1					
Sign Gantry DS104						
ES0140	Sign Gantry DS104 P-bored Piling, 8 Nr.					
ES5130	Testing for P-bored Piles					
ES5150	Fabrication & Delivery of Sign Gantrys to Site					
PORTION K, L, M, S & T						
Portion K Building						
002 - C&ED Observation Guard Booth No. 1, Portion K						
A00210	Excavation + Blinding					
A00220	Raft Foundation					
A00230	Superstructure					
002 - C&ED Observation Guard Booth No. 2, Portion K						
B00210	Excavation + Blinding					
B00220	Raft Foundation					
B00230	Superstructure					
Portion M Buildings						
108 - C&ED Mobile X-ray Operation Office, Portion M						
B10800	Excavation + Blinding					
B10810	Substructure (raft Foundation)					
B10840	Superstructure (Roof beams & Slabs)					
B10850	Finishing					
B10860	BS for Office Accommodations (KD9)					
B10880	Other BS + E & M Installation					
HPL Composite Panel Cladding System						

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**THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

- █ Actual Work
- █ Remaining Work
- █ Critical
- ◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities



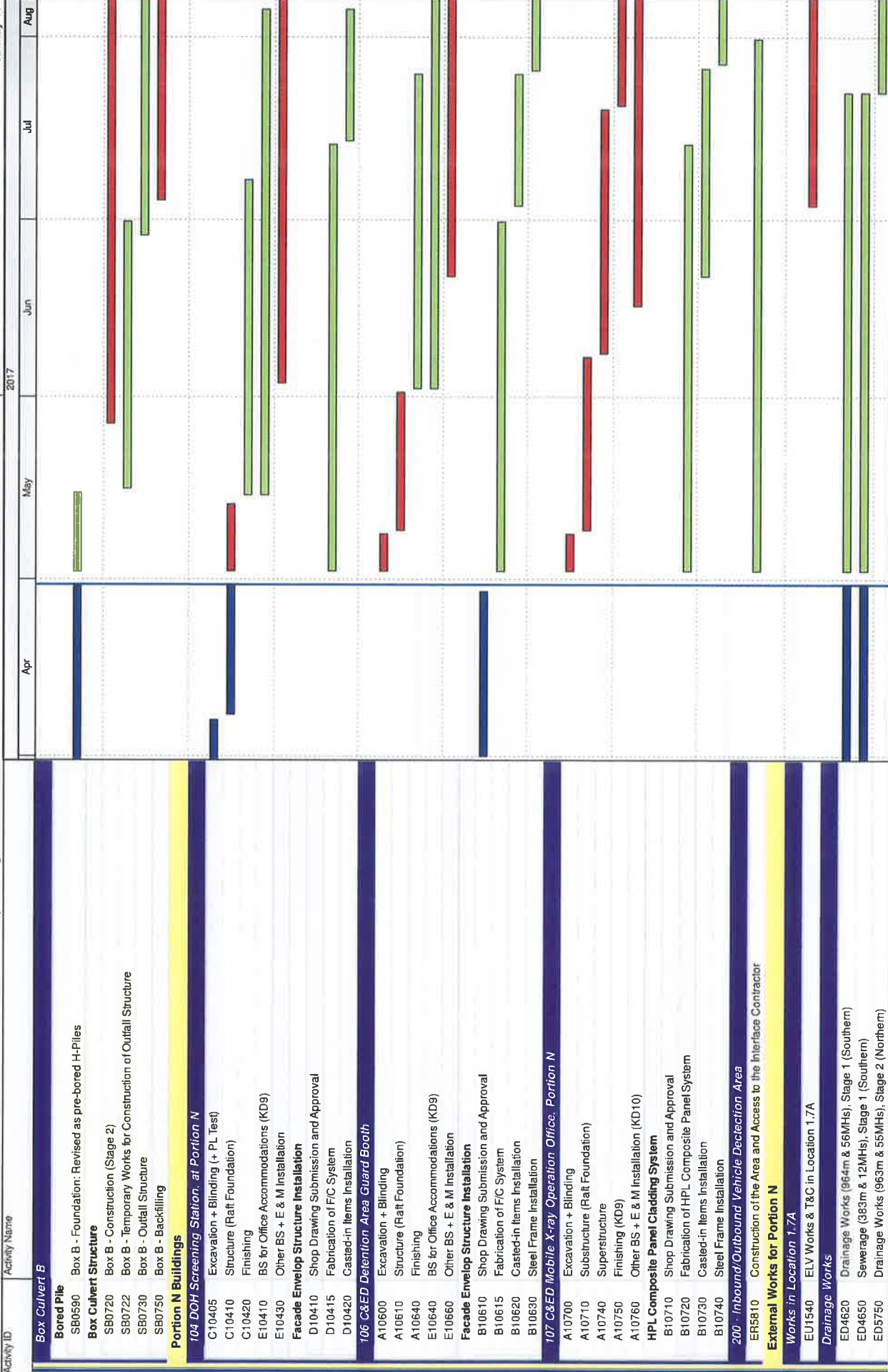
Activity Name
 Activity ID
 2017
 02-May-17

Date	Revision	Checked	Approved
28-Feb-17	3MRP updated as of 28 Feb. 2017	ZJ	
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THREE MONTH ROLLING PROGRAMME	
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES	
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

02-May-17



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THREE MONTH ROLLING PROGRAMME

VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

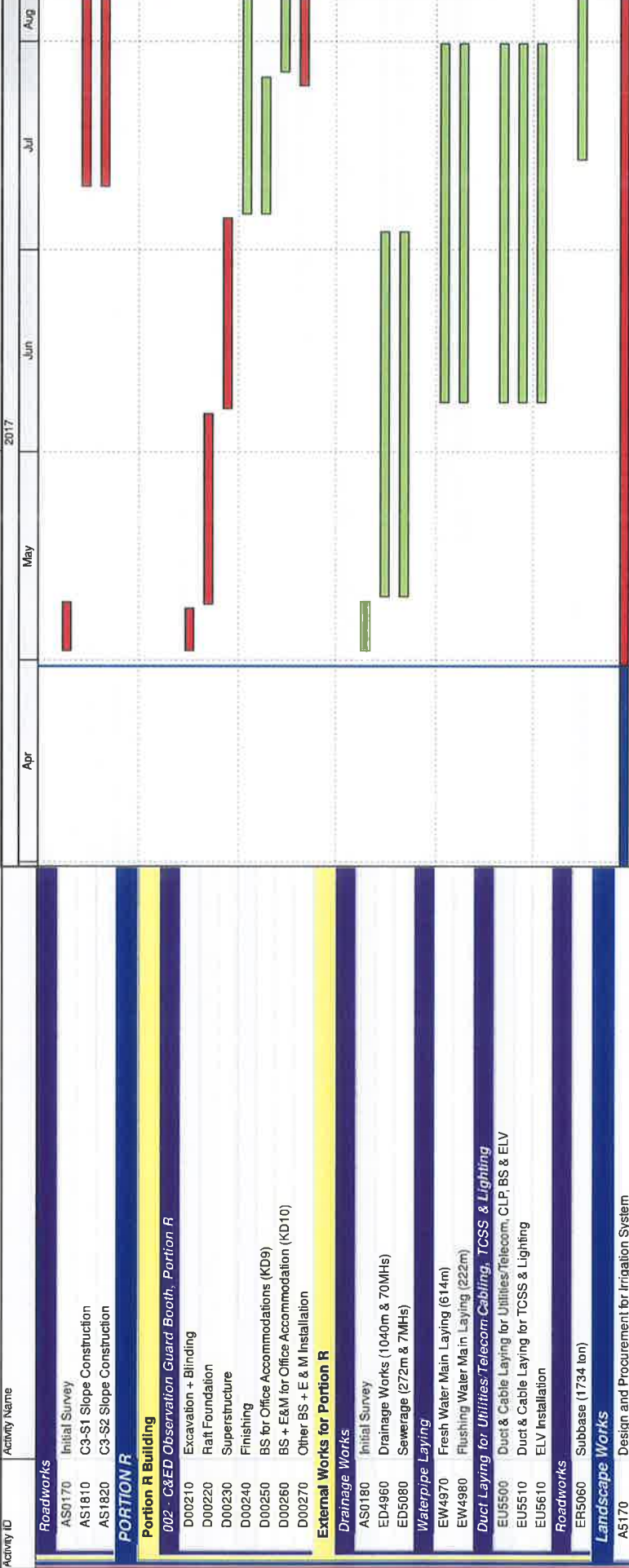
Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
ED5760	Sewerage (383m & 12MHs), Stage 2 (Northern)					
Waterpipe Laying						
EW4530	Fresh Water Main Laying (641m)					
EW4540	Flushing Water Main Laying (413m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5460	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5470	Duct & Cable Laying for TCSS & Lighting					
Roadworks						
ER4620	Subbase (6475 ton)					
ER4650	Bitumen Pavement (10144ton)					
ER4660	Rigid Pavement (183 m ³), Footpath & EVA					
PORTION P						
Portion Structure						
Retaining Wall RW1						
RW1110	Construction of Retaining Wall RW1 (U-shape, 5 bays)					
Portion P Buildings						
105 IMM/D Guard Booth, Portion P						
A10510	Excavation + Blinding					
A10520	Substructure (Rat Foundation)					
A10530	On Grade Ground Slab					
A10540	Finishing					
E10500	BS for Office Accommodatons (KD9)					
E10510	BS + E&M for Office Accommodation (KD10)					
E10520	Other BS + E & M Installation					
Facade Envelop Structure Installation						
A10560	Shop Drawing Submission and Approval					
A10565	Fabrication of F/C System					
A10570	Casted-in Items Installation					
A10580	Steel Frame Installation					
External Works for Portion P						
Drainage Works						
AS0160	Initial Survey					
ED4670	Drainage Works (2957m & 128MHs)					
ED4790	Sewerage (269m & 7MHs)					
Waterpipe Laying						
EW4680	Fresh Water Main Laying (1270m)					
EW4690	Flushing Water Main Laying (455m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5480	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
Roadworks						
ER4770	Subbase (16519 ton)					
ER4800	Bitumen Pavement (23956 ton)					
ER4810	Rigid Pavement (220 m ³), Footpath & EVA					
PORTION Q						
External Works for Portion Q						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
ED5570	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
ED5580	Duct & Cable Laying for TCSS & Lighting					
EU1490	ELV System Installation for Contract HY/2013/04					

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THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

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**THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

HKBCF - VCP & Ancillary Buildings and Facilities, DWP04 (+ DRMS 2), UD

CONTRACT DATES

Key Dates

A1020	KD2 Achievement of Stage 2 of the Works (460 days; 12 Jul. 16)	◆ KD16 Achievement of Stage 15
A1160	KD16 Achievement of Stage 15 of the Works (548 days; 08 Oct. 16)	◆ KD17 Achievement of Stage 16
A1170	KD17 Achievement of Stage 16 of the Works (548 days; 08 Oct. 16)	◆ KD18F Achievement of Stage 23 of the Works (730 days; 08 Apr. 17)
A1180F	KD18F Achievement of Stage 23 of the Works (730 days; 08 Apr. 17)	

Site Access & Possession

Possession of Portion of Site		
A0040	Possession of Portion C (<=100 days)	◆ Possession of Portion C (<=100 days)
A0070	Possession of Portion F (<=220 days)	◆ Possession of Portion F (<=220 days)
A0170	Possession of Portion Q (<=500 days)	◆ Possession of Portion Q (<=500 days)
A0180	Possession of Portion R (<=610 days)	◆ Possession of Portion R (<=610 days)

Access to Locations of the Site

A0230	Contract Date for Access to Location 1.3 (488 days)	◆ Contract Date for Access to Location 1.3 (488 days)
A0240	Contract Date for Access to Location 1.4 (488 days)	◆ Contract Date for Access to Location 1.4 (488 days)
A0280	Contract Date for Access to Location 1.7A (610 days)	◆ Contract Date for Access to Location 1.7A (610 days)
A0290	Contract Date for Access to Location 1.7B (610 days)	◆ Contract Date for Access to Location 1.7B (610 days)
A0300	Contract Date for Access to Location 1.7C (610 days)	◆ Contract Date for Access to Location 1.7C (610 days)
A0330	Contract Date for Access to External Area for Contract HY/2013/001 for ELV System Installation (570 days)	◆ Contract Date for Access to External Area for Contract HY/2013/001 for ELV System Installation (570 days)
A0340	Contract Date for Access to External Area for Contract HY/2013/002 for ELV System Installation (560 days)	◆ Contract Date for Access to External Area for Contract HY/2013/002 for ELV System Installation (560 days)
A0350	Contract Date for Access to External Area for Contract HY/2013/004 ELV System Installation (560 days)	◆ Contract Date for Access to External Area for Contract HY/2013/004 ELV System Installation (560 days)

PORTION A1

Portion A1 Structures

Bridge A9

Structure Deck		
SA9420	Deck on P904, P903 + Stressing	
SA9440	Deck on P903 & P902 + Stressing	
SA9450	Falsework for Deck P902 - A901	
SA9460	Deck on P902 & A901 + Stressing	
SA9470	Parapet (38 pour) & E&M Works	

Retaining Wall W8-1

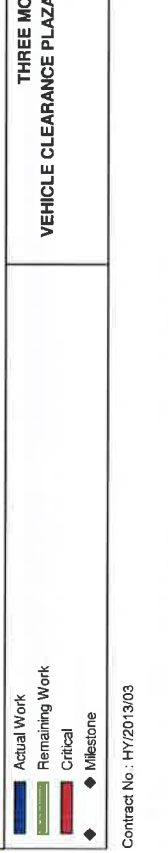
SW8120	Backfilling W8-1	
SW8130	Parapet W8-1 (16 pour) & E&M Works	
SW8140	RW8-1 Drainage system & Cable Laying	

Retaining Wall W9-1

SW9120	Backfilling W9-1	
SW9130	Parapet W9-1 (16 pour) & E&M Works	
SW9140	Drainage System & Cable Laying	

047 - Fresh Water Pumping Station, Portion A1 & A2

A04740	Water Tank Construction	
A04750	Pump House Construction	
A04752	Water-tightness Test for Water Tank	
A04760	Parapet Wall at Roof Slab	
A04770	BS installation + E&M (Degree 2)	
A04780	BS installation + E&M (Degree 3)	

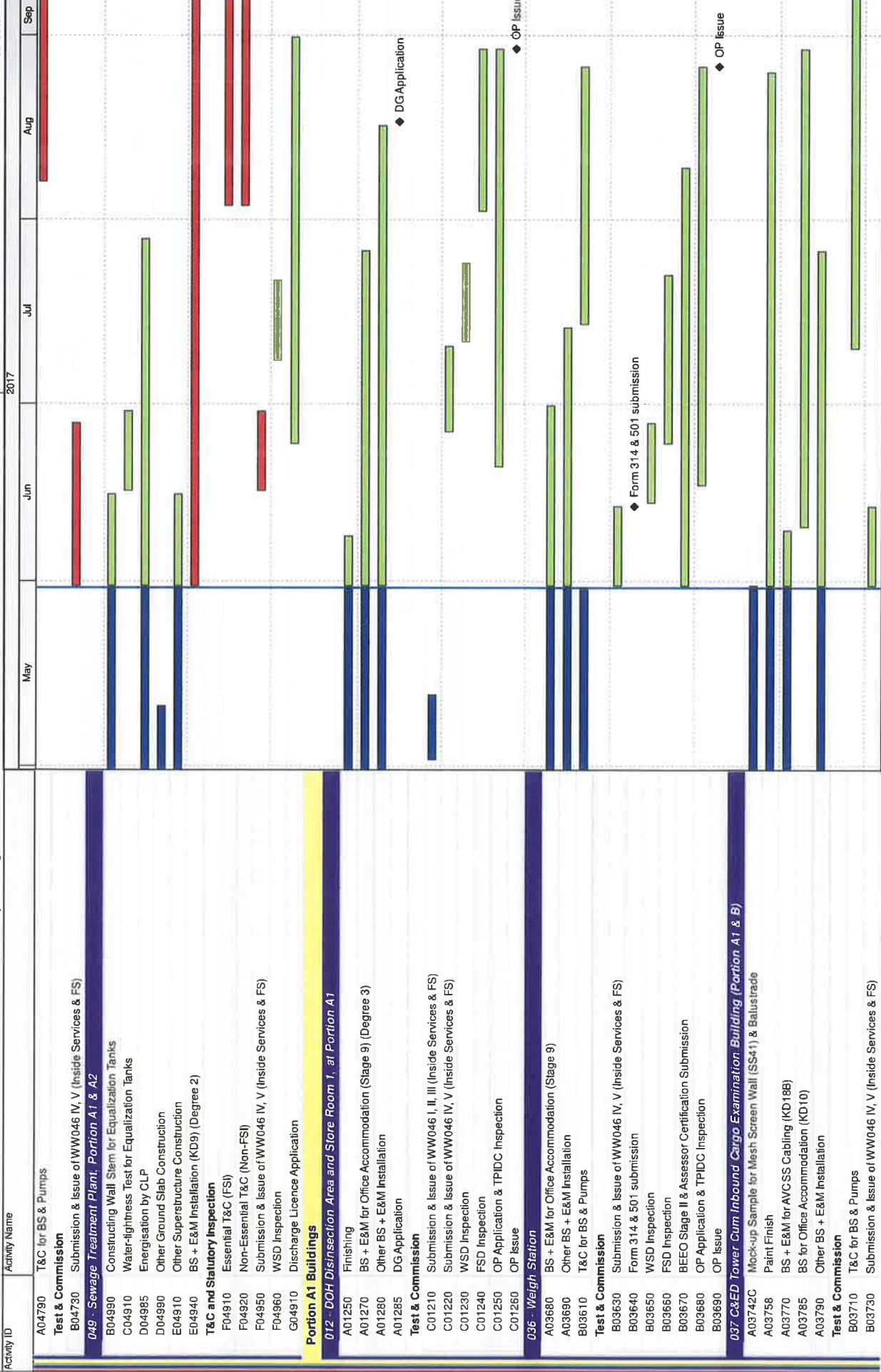


Actual Work	Remaining Work	Critical	Milestone
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THREE MONTH ROLLING PROGRAMME			
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES			
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

05-Jun-17



THREE MONTH ROLLING PROGRAMME		Revision			
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█	█	31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

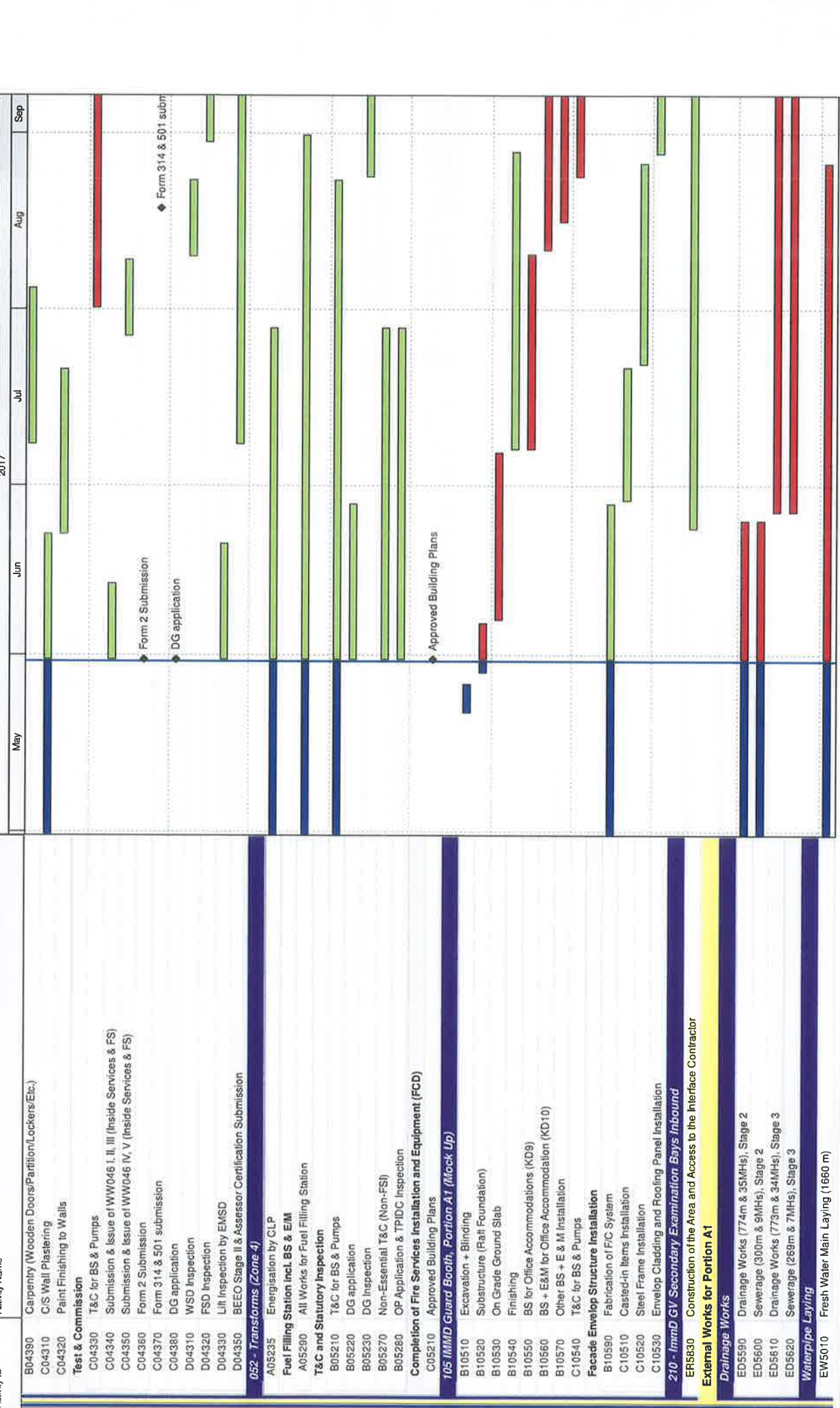
2017 05-Jun-17

Activity ID	Activity Name	May	Jun	Jul	Aug	Sep
B03740	Form LE5 Submission to EMSD				◆ Form LE5 Submission to EMSD	
B03750	Form 314 & 501 submission				◆ Form 314 & 501 submission	
B03760	Lift Inspection by EMSD					
B03770	WSD Inspection					
B03780	FSD Inspection					
B03790	Beam Plus Monthly Submission & Issue					
C03710	BEEC Stage II & Assessor Certification Submission					
C03720	OP Application & TPIDC Inspection					
041 Fire Station Cum Ambulance Depot						
A04133	Wall Plastering/Wall Tiling					
A04134	Floor Screeding/Tiling/Vinyl Tiles					
A04137	False Ceiling Installation					
A04140	BS for Office Accommodation (Stage 8), Degree 2					
A04150	BS + E&M for Office Accommodation (Stage 9), Degree 3					
A04160	Other BS + E&M Installation					
A04170	External Finishing					
A04180	C/S Plastering/Tiling					
A04190	Cater Equipment Installation					
Fuel Filling Station incl. BS & E/M						
B04100	All Works for Fuel Filling Station					
Test & Commission						
B04110	T&C for BS & Pumps					
B04120	Submission & Issue of WW046 I, II, III (Inside services & FS)					
B04130	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B04140	Form 314 & 501 submission				◆ Form 314 & 501 submission	
B04150	Form LE5 Submission to EMSD					
B04160	DG application					
B04170	WSD Inspection					
B04180	FSD Inspection					
C04130	Beam Plus Monthly Submission & Issue					
C04140	BEEC Stage II & Assessor Certification Submission					
042 Drill Tower						
A04260	Finishing					
A04280	BS + E&M for Office Accommodation (Stage 9)					
A04290	Other BS + E&M Installation					
Test & Commission						
B04210	BEEC Stage II & Assessor Certification Submission					
B04220	T&C for BS Pumps					
B04230	WSD Inspection					
B04240	FSD Inspection					
B04250	OP Application & TPIDC Inspection					
043 DOH Office + Store Room						
A04370	Cladding & Curtain Wall Installation (incl. steel & metal works)					
A04390	BS + E&M for Office Accommodation (Stage 9)					
B04310	Other BS + E&M Installation					
B04330	Stainless Steel Mesh Installation					
B04340	Metal Windows/Louvers/Doors/Railing etc. installation					
B04360	Wall Plastering/Tiling					
B04370	Floor Screeding/Tiling					
B04380	False Ceiling Installation & Painting					

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VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES
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Actual Work
 Remaining Work
 Critical
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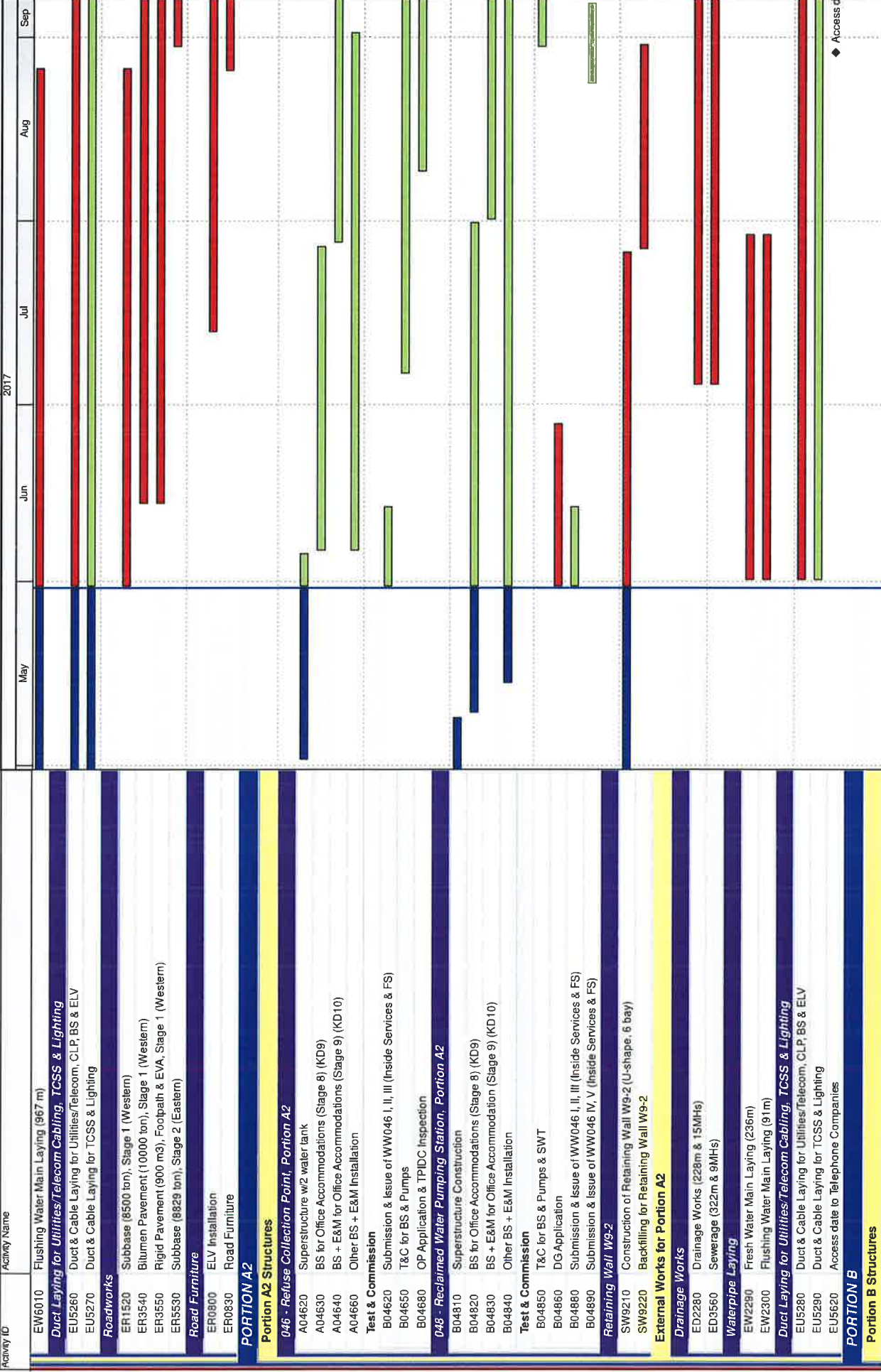
THREE MONTH ROLLING PROGRAMME

VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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Contract No.: HY/2013/03

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities



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THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

05-Jun-17

Activity ID	Activity Name	2017	May	Jun	Jul	Aug	Sep
Retaining Wall W7-2							
S70890	Retaining Wall W7-2 Backfilling						
S70910	C3-S6 Slopeworks						
S70970	Retaining Wall W7-2 Parapet (2 pour) & E&M Works						
S70980	Retaining Wall W7-2 Drainage System & Cable Laying						
Retaining Wall W6-1							
S62060	Retaining Wall W6-1 Backfilling						
S62070	Retaining Wall W6-1 Parapet (8 pour) & E&M Works						
S62080	Retaining Wall W6-1 Drainage System & Cable Laying						
S62210	Retaining Wall W6-1 Bituminous Paving (347 ton) (KD25)						
Bay 25 - 29 of CUE/Staff Subway							
C02960	Internal Finishes & Cable Containment						
C02970	BS + E&M Installation for AVCSS						
Portion B Buildings							
027.028 Inbound Kiosks & 029 Outbound Kiosks							
A02720	Superstructure						
A02730	Construction of Subway Entrance						
A02740	Construction of Subway Toilets						
A02750	Finishing						
A02760	BS for Office Accommodation						
A02780	BS + E&M for AVCSS Works (KD18A)						
A02790	BS + E&M for AVCSS Cabling (KD18B)						
B02720	Other BS + E&M Installation						
Test & Commission							
B02810	T&C for BS & Pumps						
B02830	Submission & Issue of WW046 IV, V (Inside Services & FS)						
027.028 Inbound Kiosks & 029 Outbound Kiosks, Section IX, Subject to Excision							
B02750	Superstructure						
B02760	BS + E&M for AVCSS Works (KD18C)						
B02770	BS + E&M for AVCSS Works (KD18D)						
B02780	BS + E&M for allowing users to move in furniture (KD18E)						
Test & Commission							
D02730	Submission & Issue of WW046 IV, V (Inside Services & FS)						
028 Inbound IMMD and DOH Secondary Screening Building							
A02640	Finishing						
A02670	BS for Office Accommodation (Stage 8)						
A02680	BS + E&M for Office Accommodation (Stage 9)						
A02690	Other BS + E&M Installation						
Test & Commission							
B02630	Submission & Issue of WW046 IV, V (Inside Services & FS)						
B02650	TC for BS & Pumps						
054 Inbound Fixed X-ray Building							
A05460	Finishing						
A05467	Energisation by CLP						
A05480	BS + E&M for Office Accommodation (Stage 9)						
A05490	Other BS + E&M Installation						
Fuel Filling Station incl. BS & E/M							
B05490	All Works for Fuel Filling Station						
T&C and Statutory Inspection for Zone 4a							
B05400	BEE0 Stage II & Assessor Certification Submission						

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

2017 05-Jun-17

Activity Name	May	Jun	Jul	Aug	Sep
B05420 T&C for BS & Pumps					
B05460 DG Inspection					
Completion of Fire Services Installation and Equipment (FCD)					
F05450 Application for FS Inspection (FSI501) c/w FSI Plan (FSI/314)					
Waterworks Ordinance (WSD)					
G05410 Approval Letter and approved Drawings					
G05430 Submission of WW046 - Part IV (Inside Services)					
038 AFCD Office					
A03850 Finishing + Curtain Wall Installation					
A03870 BS for Office Accommodation (Stage 8)					
A03880 BS + E&M for Office Accommodation (Stage 9)					
A03890 Other BS + E&M Installation					
Test & Commission					
B03810 T&C for BS & Pumps					
B03830 Submission & Issue of WW046 I, II, III (Inside Services & FS)					
B03880 Form 314 & 501 submission					
C03820 Form 2 Submission					
C03830 Lift Inspection by EMSD					
C03850 FSD Inspection					
C03860 BEEC Stage II & Assessor Certification Submission					
039 Police Main Building					
A03940 Finishing + Curtain Wall Installation					
A03950 BS for Office Accommodation (Stage 8), & for TCSS works (KD14)					
A03960 BS + E&M for Office Accommodation (Stage 9)					
Fuel Filling Station incl. BS & E/M					
B03910 All Works for Fuel Filling Station					
Test & Commission					
B03920 Submission & Issue of WW046 I, II, III (Inside Services & FS)					
B03930 Submission & Issue of WW046 IV, V (Inside Services & FS)					
B03940 BEEC Stage II & Assessor Certification Submission					
B03950 Beam Plus Monthly Submission & Issue					
C03920 DG Inspection					
C03950 Form 2 Submission					
C03970 T&C for BS & Pumps					
040 Incident Control Tower					
A04050 Finishing (KD9)					
A04060 BS for Office Accommodation (Stage 8), & for TCSS works (KD14)					
A04070 BS + E&M for Office Accommodation (Stage 9)					
Facade Cladding System					
B04040 Steel Frame Installation					
B04050 Cladding Panel Installation					
Glass Wall					
C04020 Fabrication of Glass Wall					
C04040 Steel Frame Installation					
Test & Commission					
D04010 Form 314 & 501 submission					
D04030 T&C for BS & Pumps					
D04040 Form 2 Submission					
D04050 Lift Inspection by EMSD					
102 HKPF UVSS Monitor Room					

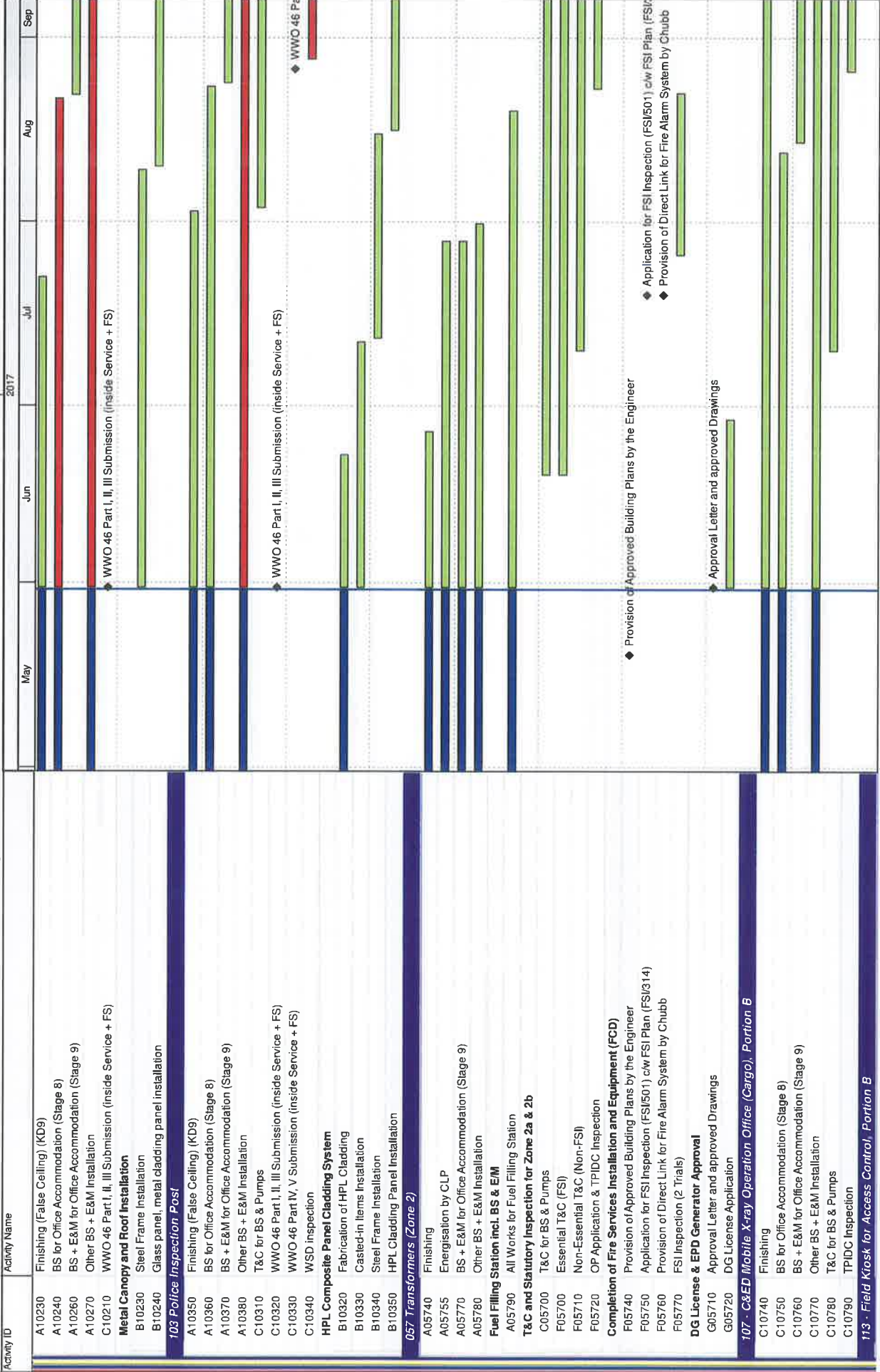
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VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

2017 05-Jun-17



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VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

2017 05-Jun-17

Activity Name	May	Jun	Jul	Aug	Sep
B11330 Superstructure (Roof Beams & Slabs)	█				
B11340 Finishing					
B11350 BS for Office Accommodation (Stage 8)					
B11360 BS + E&M for Office Accommodation (Stage 9)					
B11370 Other BS + E&M Installation					
B11380 T&C for BS & Pumps					
B11390 TPIDC Inspection					
201 - Inbound Cargo Mobile X-ray Operation Area					
ER5850 Construction of the Area and Access to the Interface Contractor					
205 - Inbound Private Car Mobile X-ray Operation Area					
ER5860 Construction of the Area and Access to the Interface Contractor					
External Works for Portion B					
Works in Location 1.7A					
BB1480 ELV Works & T&C in Location 1.7A					
Works in Location 1.7B					
BB1490 ELV Works & T&C in Location 1.7B					
Drainage Works					
ED5690 Drainage Works (1130m & 60MHs), Stage 4 (N/E)					
ED5700 Sewerage (300m & 82MHs), Stage 4 (N/E)					
Waterpipe Laying					
EW6100 Fresh Water Main Laying (1000m), Stage 3					
EW6110 Flushing Water Main Laying (931m), Stage 3					
EW6190 Chilled Water Pipe Laying in Portion B (external)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting					
EU5300 Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5310 Duct & Cable Laying for TCSS & Lighting					
EU5550 ELV Installation					
EU5630 Access date to Telephone Companies					
Roadworks					
ER1640 Subbase (21000 ton), Stage 1					
ER3590 Bitumen Pavement (30000 ton), Stage 1					
ER3600 Rigid Pavement (1188 m3), Footpath & EVA, Stage 1					
ER5590 Subbase (22152 ton), Stage 2					
ER5600 Bitumen Pavement (31126 ton), Stage 2					
ER5610 Rigid Pavement (1188 m3), Footpath & EVA, Stage 2					
Road Furniture					
ER1620 Road Furniture					
Sign Gantry, ADS 306A & ADS 306B					
ESS240 Fabrication & Delivery of Sign Gantries to Site					
PORTION C					
Portion C Buildings					
010 - Inbound Coach Kiosk & Staff Subway Entrance (Subway Deleted)					
A01020 Base Slab & Kiosk superstructure					
A01030 BS + E&M for AVCSS works (KD18A)					
009 - Staff Subway Entrance (Bay 0 - 3) & Shuttle Bus Kiosks					
B00920 Kiosk superstructure					
B00930 BS + E&M for AVCSS works (KD18A)					
B00940 BS + E&M for AVCSS Cabling (KD18B)					
B00970 BS + E&M for Office Accommodation (Stage 9) (KD10)					

Actual Work
 Remaining Work
 Critical
 Milestone

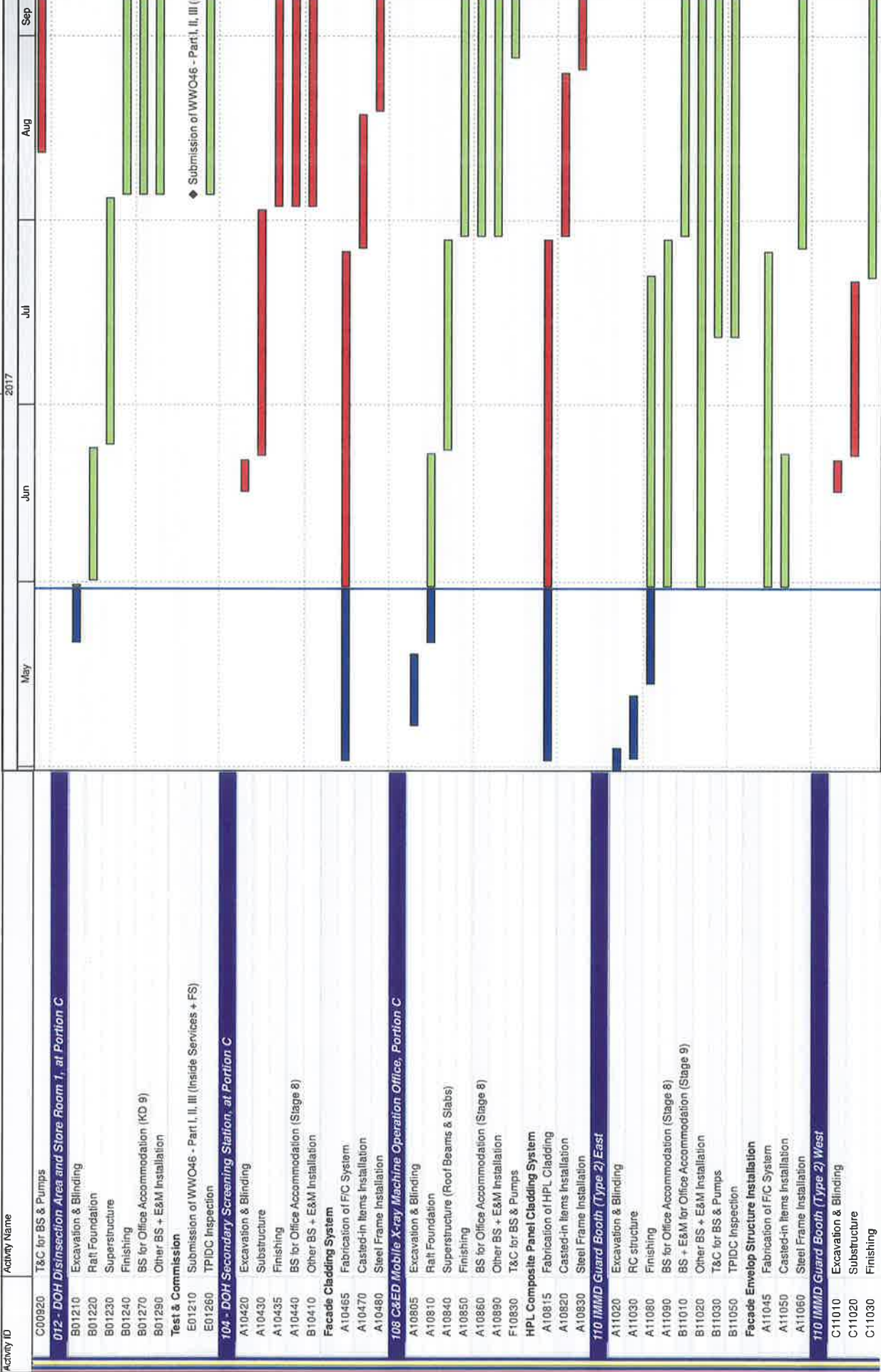
◆ Access date to Telephone Companies

THREE MONTH ROLLING PROGRAMME
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31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

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Activity ID	Activity Name	2017				
		May	Jun	Jul	Aug	Sep
C11040	BS for Office Accommodation					
C11060	Other BS + E&M Installation					
C11070	T&C for BS & Pumps					
Facade Envelop Structure Installation						
D11010	Casted-in Items Installation					
D11020	Steel Frame Installation					
111 Field Kiosk for Carpark Operator						
A11120	Excavation & Blinding					
A11130	Raft Foundation					
A11140	Superstructure (Roof beams & Slabs)					
A11150	Finishing					
A11160	BS for Office Accommodation (Stage 8)					
A11180	Other BS + E&M Installation					
HPL Composite Panel Cladding System						
B11120	Fabrication of HPL Cladding					
B11130	Casted-in Items Installation					
B11140	Steel Frame Installation					
113 - Field Kiosk for Access Control, Portion C						
C11310	Excavation & Blinding					
C11320	Raft Foundation					
C11330	Superstructure (Roof Beams & Slabs)					
F11310	T&C for BS & Pumps					
204 - Inbound Coach Exam Area & Mobile X-ray Operation						
ER5760	Radiation Screen Wall Construction					
ER5880	Construction of the Area and Access to the Interface Contractor					
External Works for Portion C						
Works in Location 1.2, 1.8 & 011 - Emergency Generator Building						
BB1440	Works & T&C in Location 1.2					
BB1450	Works & T&C in Location 1.8					
BB1460	ELV System Installations and T&C for Contract HY/2013/01					
BB1470	Provisioning of Civil Engineering Works for 011-Emergency Generator Building (KD18)					
Drainage Works						
B00040	Initial Survey					
SG2400	Drainage Works (797m & 36MHs)					
SG3610	Sewerage (186m & 4MHs)					
Waterpipe Laying						
SW2410	Fresh Water Main Laying (272m)					
SW2420	Flushing Water Main Laying (105m)					
SW9280	Chilled Water Pipe Laying in Portion C (external)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
SU5320	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
SU5330	Duct & Cable Laying for TCSS & Lighting					
SU5400	ELV Installation					
Roadworks						
SR2500	Subbase (4201 ton)					
Road Furniture						
SR2480	Road Furniture					
PORTION D						
Portion D Building						

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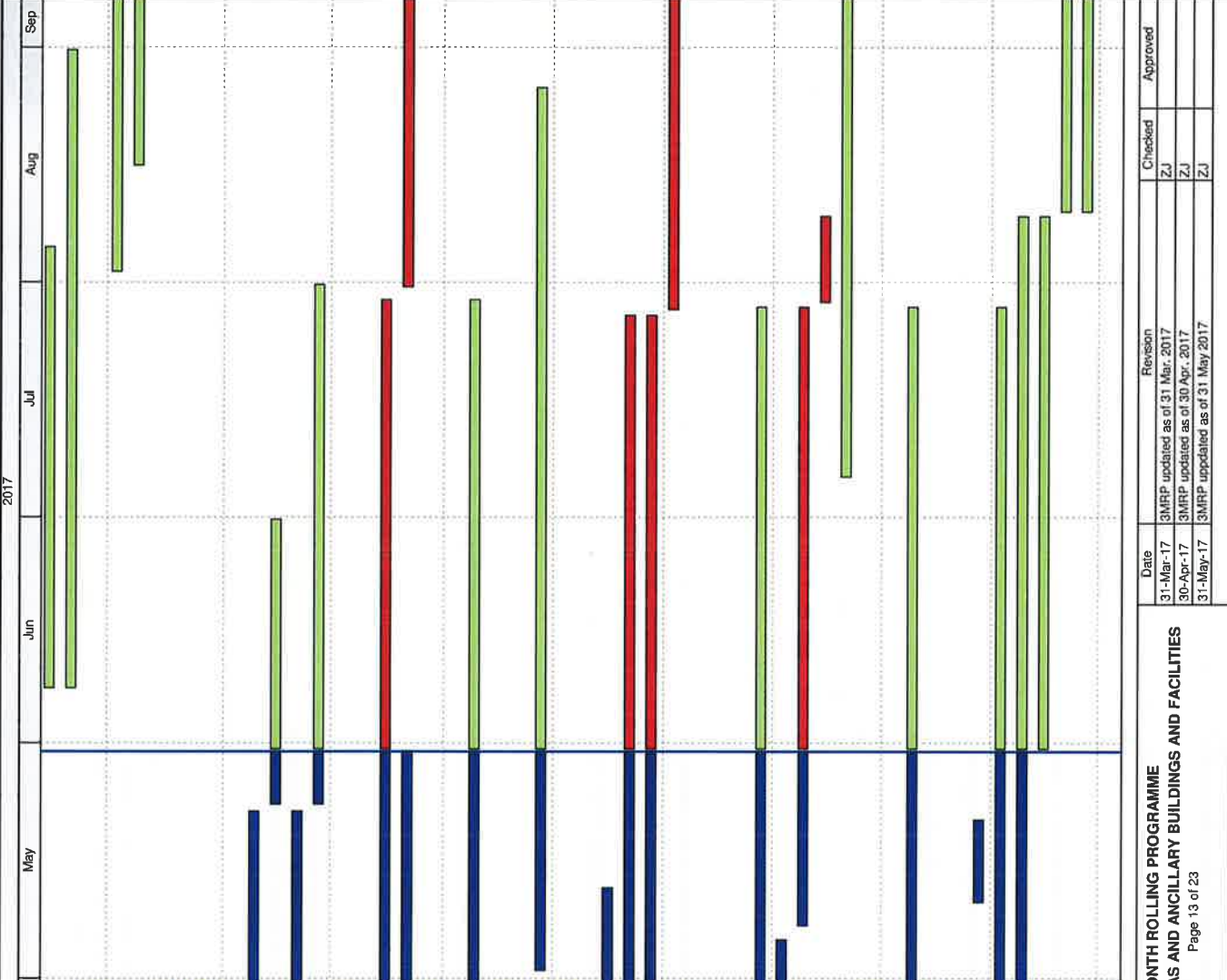
Activity ID	Activity Name	2017				
		May	Jun	Jul	Aug	Sep
114 - Field Kiosk for Access Control, Portion D						
C11360	Raft Foundation					
C11370	Superstructure (Roof Beams & Slabs)					
C11380	Finishing					
D11340	BS for Office Accommodation (Stage 8)					
D11350	BS + E&M for Office Accommodation (Stage 9)					
D11360	Other BS + E&M Installation					
F11350	T&C for BS & Pumps					
External Works for Portion D						
<i>Drainage Works</i>						
SG3640	Drainage Works (951m & 14MHs)					
SG3760	Sewerage (121m & 6MHs)					
<i>Waterpipe Laying</i>						
SW3650	Fresh Water Main Laying (108m)					
<i>Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting</i>						
B11480	ELV System Installation for Contract HY2013/02					
SU5350	Duct & Cable Laying for TCSS & Lighting					
SU5640	Access date to Telephone Companies					
<i>Roadworks</i>						
SR3740	Subbase (261 ton)					
SR3770	Bitumen Pavement (619 ton)					
PORTION E						
006 - Shuttle Bus Kiosk & Staff Subway Entrance, at Portion E & M						
A00630	Constructing wall stem + top slab of Subway					
A00640	Backfilling & Surcharge					
A00650	Constructing Ground Slab					
A00660	Constructing Kiosk (4 Nr.)					
A00670	Constructing Subway Entrance					
External Works for Portion E						
<i>Drainage Works</i>						
SG3780	Drainage Works (99m & 5MHs)					
SG3900	Sewerage (38m & 1 MH)					
<i>Waterpipe Laying</i>						
SW3790	Fresh Water Main Laying (45m)					
SW3800	Flushing Water Main Laying (25m)					
<i>Roadworks</i>						
SR3880	Subbase (1659 ton)					
SR3910	Bitumen Pavement (2105 ton)					
SR3920	Rigid Pavement (180 m3)					
PORTION F						
External Works for Portion F						
<i>Drainage Works</i>						
B00070	Initial Survey					
SG3930	Drainage Works (122m & 9MHs)					
SG4050	Sewerage (70m & 3MHs)					
<i>Waterpipe Laying</i>						
SW3940	Fresh Water Main Laying (205m)					
<i>Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting</i>						
SU5380	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					

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Activity ID Activity Name 2017 05-Jun-17

SU5390 Duct & Cable Laying for TCSS & Lighting
 SU5420 ELV Installation
Roadworks
 SR4030 Subbase (1534 ton)
 SR4060 Bitumen Pavement (1909 ton)
PORTION G, H1 & H2
Portion G Structures
Box Culvert C
Box Culvert Structure
 SC0310 Box C - Branch Construction
 SC0320 Box C - Branch Backfilling
 SC0380 Box C - Construction of Main Body
 SC0390 Box C - Back filling
Bridge A1
Structure Deck
 SA1460 Deck on P101, P102 + Stressing
 SA1520 Parapet (42 pour), E&M works & installation of DS38 & DS39
Bridge A2
Structure Deck
 SA2460 Deck on P201 & P202 + Stressing
Bridge A3
Structure Deck
 SA3510 Parapet (56 pour), E&M Works & installation of DS51
Bridge A4
Structure Deck
 SA4420 Deck on P502b, P401 + Stressing
 SA4440 Deck on P401, P402 + Stressing
 SA4460 Deck on P304b, P401, P402 + Stressing
 SA4470 Parapet (35 pour), E&M Works
Bridge A5
Structure Deck
 SA5480 Deck on P502a, P502b & P503 + Stressing
 SA5540 Deck on A501 & P502a + Stressing
 SA5550 Falsework for Deck P507 - P508a, P508b
 SA5560 Deck on P507 & P508a, P508b + Stressing
 SA5570 MJ Installation (KD16 & KD17)
 SA5580 Parapet (65 pour), E&M Works installation of ADS 304A
Bridge A6
Structure Deck
 SA6540 Parapet (50 pour) & E&M Works
Bridge A7a, A7b, A7c
Structure Deck
 SA7840 Deck on A701, P702 (Bridge A7a) + Stressing
 SA7940 Parapet for Bridge A7b (8 pour) & E&M Works
 SA7950 Parapet for Bridge A7c (38 pour) & E&M Works
 SA7960 Parapet for Bridge A7a (48 pour) & E&M Works
 SA7980 Bituminous Paving for A7c (400 ton)(KD25)
 SA7990 Bituminous Paving for A7a (400 ton) (KD25)
Bridge A8

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Structure Deck						
SA8470	Parapet (26 Pour) & E&M works					
Retaining Walls W1-1, W3-1, W5-1 & W7-1						
Retaining Wall W1-1						
SW1110	Construction of Retaining Wall W1-1 (L-shape, 4 bays)					
SW1120	Retaining Wall W1-1 Backfilling					
SW1122	Slope C3-S3 Construction					
Retaining Wall W3-1						
SW3150	Construction of Retaining Wall W3-1 (U-shape, 4 bays)					
SW3160	Backfilling W3-1					
SW3165	Slope C3-S4 Construction					
Retaining Wall W5-1						
SW5010	Construction of Retaining Wall W5-1 (L-shape, 5 bays)					
SW7110	Construction of Retaining Wall W7-1 (U-shape, 4 bays)					
Portion G Buildings						
002 - C&ED Observation Guard Booth No. 1, Portion H1						
C00220	Excavation + Blinding					
C00230	Raft Foundation					
C00240	Superstructure					
002 - C&ED Observation Guard Booth No. 2, Portion H1						
E00210	Excavation + Blinding					
E00220	Raft Foundation					
E00230	Superstructure					
003 Inbound Private Car Exam Building						
A00330	Finishing					
A00360	External Works					
A00370	BS for Office Accommodation (Stage 8)					
A00380	BS + E&M for Office Accommodation (Stage 9)					
A00390	Other BS + E&M Installation					
C00310	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
C00330	BEE0 Stage II & Assessor Certification Submission					
C00360	T&C for BS & Pumps					
C00390	OP Application & TPIDC Inspection					
Glass Canopy Installation						
B00305	Fabrication of Glass Canopy					
B00360	Steel Frame Installation					
B00370	Glass Panel Installation					
Aluminium Metal Canopy						
B00330	Steel Frame Installation					
B00340	Aluminium Cladding Installation					
004 Satellite RCP South						
A003450	Finishing					
A00470	BS + E&M for Office Accommodation (Stage 9)					
A00480	Other BS + E&M Installation					
Test & Commission						
C003420	Submission & Issue of WW046 IV, V (Inside Services & FS)					
C003430	Form 314 & 501 submission					
C003440	T&C for BS & Pumps					
C003450	WSD Inspection					

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Activity ID	Activity Name	2017				
		May	Jun	Jul	Aug	Sep
C03460	FSD Inspection					
C03470	OP Application & TPIDC Inspection					
SS Facade Greenery System						
B03415	Fabrication of SS F/G System					
B03430	Steel Frame Installation					
055 - Sewage Pumping Station, Portion G						
A03590	Water-tightness Test for Wet Wells					
B03550	Water-tightness Test for Inlet Chamber					
B03560	Superstructure works					
B03570	Backfilling					
B03580	BS for Office Accommodations (KD9)					
B03590	BS + E&M for Office Accommodation (KD10)					
C03510	Other BS + E & M Installation					
Test & Commission						
C03530	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
C03550	Form 314 & 501 submission					
C03560	T&C for BS & Pumps SWT					
C03590	OP Application & TPIDC Inspection					
051 Transformers (Zone 5)						
A05150	Finishing					
A05165	Energyisation by CLP					
A05180	BS + E&M for Office Accommodation (KD10)					
A05190	Other BS + E & M Installation					
T&C and Statutory Inspection for Zone 5						
C05120	T&C for BS & Pumps					
C05130	Essential T&C (FS)					
C05140	Non-Essential T&C (Non-FS)					
100 Inbound Traffic Control Kiosk						
A10050	Finishing					
A10070	BS + E&M for AVCSS Works (KD18A)					
B10060	BS + E&M for AVCSS Cabling (KD18B)					
B10070	BS for Office Accommodations (KD9)					
B10090	Other BS + E & M Installation					
C10010	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
C10030	Form 314 & 501 submission					
C10040	T&C for BS & Pumps SWT					
HPL Composite Panel Cladding System						
B10015	Fabrication of FC System					
B10020	Casted-in Items Installation					
B10030	Steel Frame Installation					
112 Field Kiosk for Taxi Queuing Area						
A11240	Finishing					
A11250	BS + E & M Installation					
A11260	T&C for BS & Pumps SWT					
External Works for Portion G, H1 & H2						
ELV Works within Portion H2 in the Hong Kong Side PTI						
EUI550	ELV Works within Portion H2 in the Hong Kong Side PTI (KD19)					
Works within Portion H1 & H2 except the ELV Works in the Hong Kong Side PTI						
EUI560	Drainage & Sewerage Works within Portion H1 & H2 in the Hong Kong Side PTI (KD20)					
All Works within the Boundary defined in Drawing No. 60191048 C3.000/C00/1050						

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Activity ID	Activity Name	2017	May	Jun	Jul	Aug	Sep
BEU1570	Drainage & Sewerage Works (incl. CLP) within the Boundary defined in Drawing No. 60191048/C3/000/1050						
BEU1580	Roadworks within the Boundary defined in Drawing No. 60191048/C3/000/1050, excluding Portion H1 & H2 & Bridges (KD24)						
Drainage Works							
ED4070	Drainage Works (6954m & 393MHs)						
ED4190	Sewerage (437m & 12MHs)						
Waterpipe Laying							
EW4080	Fresh Water Main Laying (1689m)						
EW4090	Flushing Water Main Laying (411m)						
Duct Laying for Utilities Telecom Cabling, TCSS & Lighting							
EU5410	Duct & Cable Laying for TCSS & Lighting						
EU5560	ELV Installation						
Roadworks							
ER4170	Subbase (17045 ton)						
ER4200	Bitumen Pavement (24549 ton)						
ER4210	Rigid Pavement (514 m3), Footpath & EVA						
Road Furniture							
ER4150	Road Furniture						
Sign Gantry DS40, DS41 & DS75							
ES0180	Fabrication & Delivery of Sign Gantries to Site						
ES0190	Erection of Sign Gantry						
Canopy and Covered Walkway							
CC1320	Footing						
CC1330	Steel Frame Installation						
PORTION J							
Portion J Structure							
Bay 30 - 41 of CUE/Staff Subway (Portion J)							
B03260	Internal Finishes & Cable Containment (KD2)						
B03270	BS + E&M Installation for AVCSS (Stage 2) (KD2)						
030 Outbound Private Car & GV Kiosks							
A03020	Pre-fabrication for the Steel Kiosks						
A03030	Superstructure (incl. Entrance & Toilet)						
A03050	Finishing						
A03060	BS + E&M for AVCSS Works (KD18B)						
A03070	BS for Office Accommodations (KD9)						
A03090	Other BS + E & M Installation						
030 Outbound Kiosks, Section IX, Subject to Excision							
C03020	Pre-fabrication for the Steel Kiosks						
C03030	Superstructure						
C03040	BS + E&M for AVCSS Works (KD18C) & Finishing						
Portion J Buildings							
024 Outbound Private Car Exam Building							
A02440	BS for Office Accommodations (KD18F)						
A02450	BS + E&M for Office Accommodation (KD18G)						
A02460	Other BS + E & M Installation (KD31)						
Test & Commission							
D02410	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
D02460	T&C for BS & Pumps						

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█ Critical
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Activity ID	Activity Name	2017	May	Jun	Jul	Aug	Sep
Glass Canopy Installation							
B02415	Fabrication of FC System						
B02430	Steel Frame Installation						
B02440	Glass Panel Installation						
Aluminium Metal Canopy							
B02455	Fabrication of FC System						
B02470	Steel Frame Installation						
B02480	Aluminium Cladding Installation (KD31)						
031 Outbound IIMD and DOH Secondary Screen Building							
A03160	BS for Office Accommodations (KD18F)						
A03170	BS + E&M for Office Accommodation (KD18G)						
A03180	Other BS + E & M Installation (KD31)						
Test & Commission							
C03120	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
C03170	T&C for BS & Pumps						
060 - Single Storey Support Building Associated with Buildings 044 & 045							
A06025	Finishing						
A06055	Energisation by CLP						
A06060	BS for Office Accommodation (Stage 10) (KD11)						
A06080	Other BS + E&M Installation						
Fuel Filling Station incl. BS & E/M							
A06090	All Works for Fuel Filling Station						
T&C and Statutory Inspection for Zone 3a							
B06020	BEO Stage II & Assessor Certification Submission						
B06030	T&C for BS & Pumps						
B06060	Essential T&C (FSI)						
B06070	Non-Essential T&C (Non-FSI)						
B06080	OP Application & TPIDC Inspection						
Completion of Fire Services Installation and Equipment (FCD)							
F06050	Application for FSI Inspection (FSI501) c/w FSI Plan (FSI0314)						
Waterworks Ordinance (WSD)							
G06020	Submission of WW046 - Part I & II (Inside Services)						
DG License & EPD Generator Approval							
G06000	DG Application						
061 Telecom Building							
A06150	Finishing (KD9)						
A06160	BS for Office Accommodations (KD9)						
A06170	BS + E&M for Office Accommodation (KD10)						
A06180	Other BS + E & M Installation						
A06190	T&C for BS						
Aluminium Metal Canopy							
B06130	Steel Frame Installation						
B06140	Aluminium Cladding Installation						
101 Outbound Traffic Control Kiosk							
A10140	Finishing						
A10150	BS + E&M for AVCSS Works (KD18A)						
A10160	BS + E&M for AVCSS Cabling (KD18B)						
A10170	BS for Office Accommodations (KD9)						
A10180	BS + E&M for Office Accommodation (KD10)						
A10190	Other BS + E & M Installation						

Actual Work	Remaining Work	Critical	Milestone
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Activity ID	Activity Name	2017	May	Jun	Jul	Aug	Sep
C10110	Submission of VWO46 - Part I & II (Inside Services)						
C10120	Submission of VWO46 - Part IV (Inside Services)						
HPL Composite Panel Cladding System							
B10120	Fabrication of HPL Cladding						
B10140	Steel Frame Installation						
206 - Outbound Private Car Mobile X-ray Operation Area							
ER5780	Radiation Screen Wall Construction						
ER5900	Construction of the Area and Access to the Interface Contractor						
External Works for Portion J							
Works in Location 1.7B							
EU1500	ELV Works & T&C in Location 1.7B						
Works in Location 1.7C							
EU1530	ELV Works & T&C in Location 1.7C						
Drainage Works							
ED4220	Drainage Works (1700m & 86MHs), Stage 1						
ED4340	Sewerage (425m & 11MHs), Stage 1						
ED5710	Drainage Works (1697m & 85MHs), Stage 2						
ED5720	Sewerage (425m & 12MHs), Stage 2						
Waterpipe Laying							
EW4230	Fresh Water Main Laying (1541m)						
EW4240	Flushing Water Main Laying (862m)						
SW9290	Chilled Water Pipe Laying in Portion J (external)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5420	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
EU5430	Duct & Cable Laying for TCSS & Lighting						
EU5570	ELV Installation						
Roadworks							
ER4320	Subbase (15400 ton), Stage 1 (Northern)						
ER4350	Bitumen Pavement (20000 ton), Stage 1 (Northern)						
ER4360	Rigid Pavement (173 m3), Footpath & EVA, Stage 1 (Northern)						
ER5680	Subbase (15409 ton), Stage 2 (Southern)						
Road Furniture							
ER4300	Road Furniture (KD25)						
Sign Gantry DS104							
ES5130	Testing for P-bored Piles						
ES5150	Fabrication & Delivery of Sign Gantries to Site						
ES5160	Erection of Sign Gantry						
PORTION K, L, M, S & T							
Portion K Building							
002 - C&ED Observation Guard Booth No. 1, Portion K							
A00210	Excavation + Blinding						
A00220	Raft Foundation						
A00230	Superstructure						
A00240	Finishing						
A00250	BS for Office Accommodations (Degree of Completion 2)						
A00270	Other BS + E & M Installation						
002 - C&ED Observation Guard Booth No. 2, Portion K							
B00210	Excavation + Blinding						
B00220	Raft Foundation						

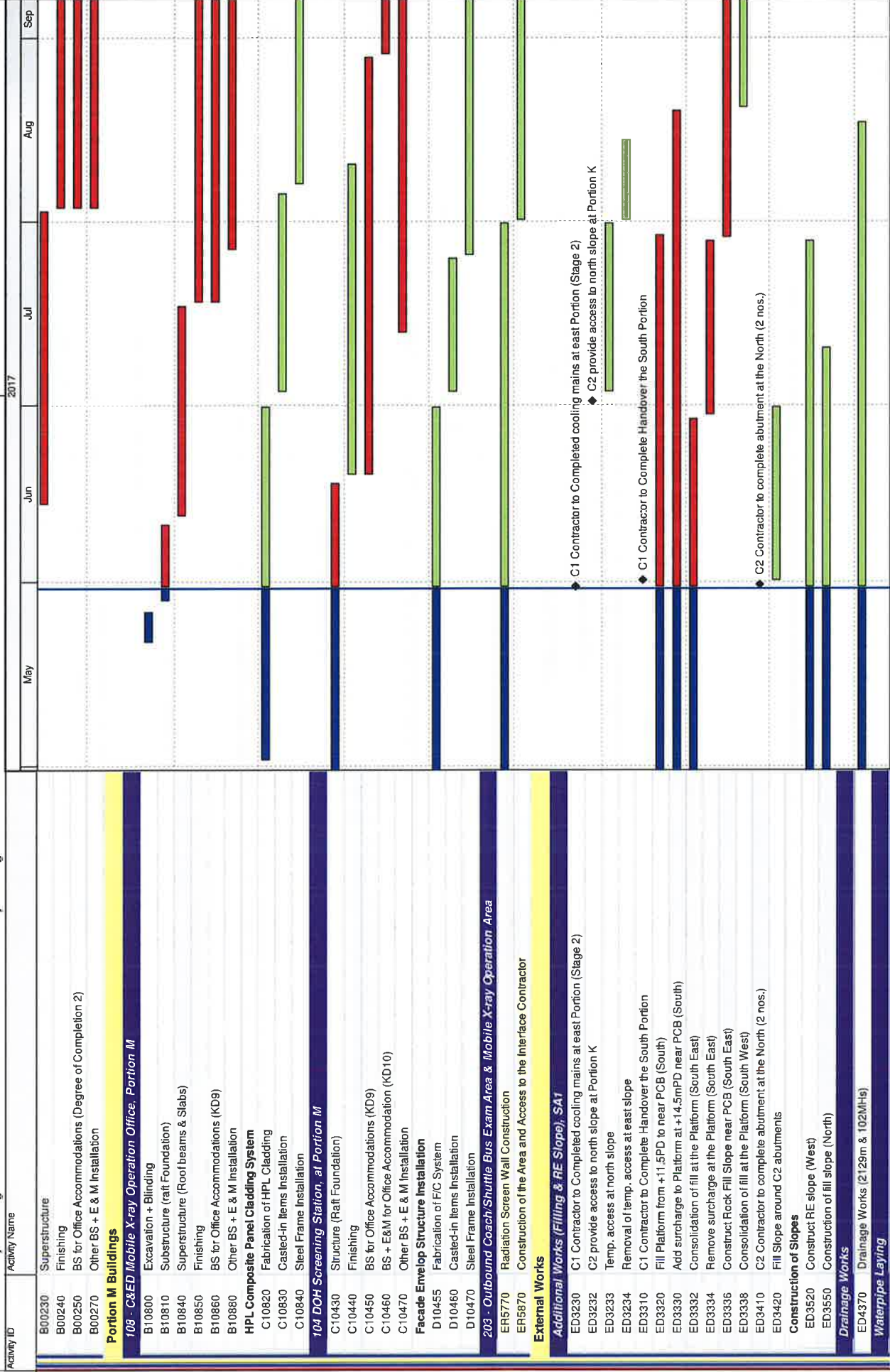
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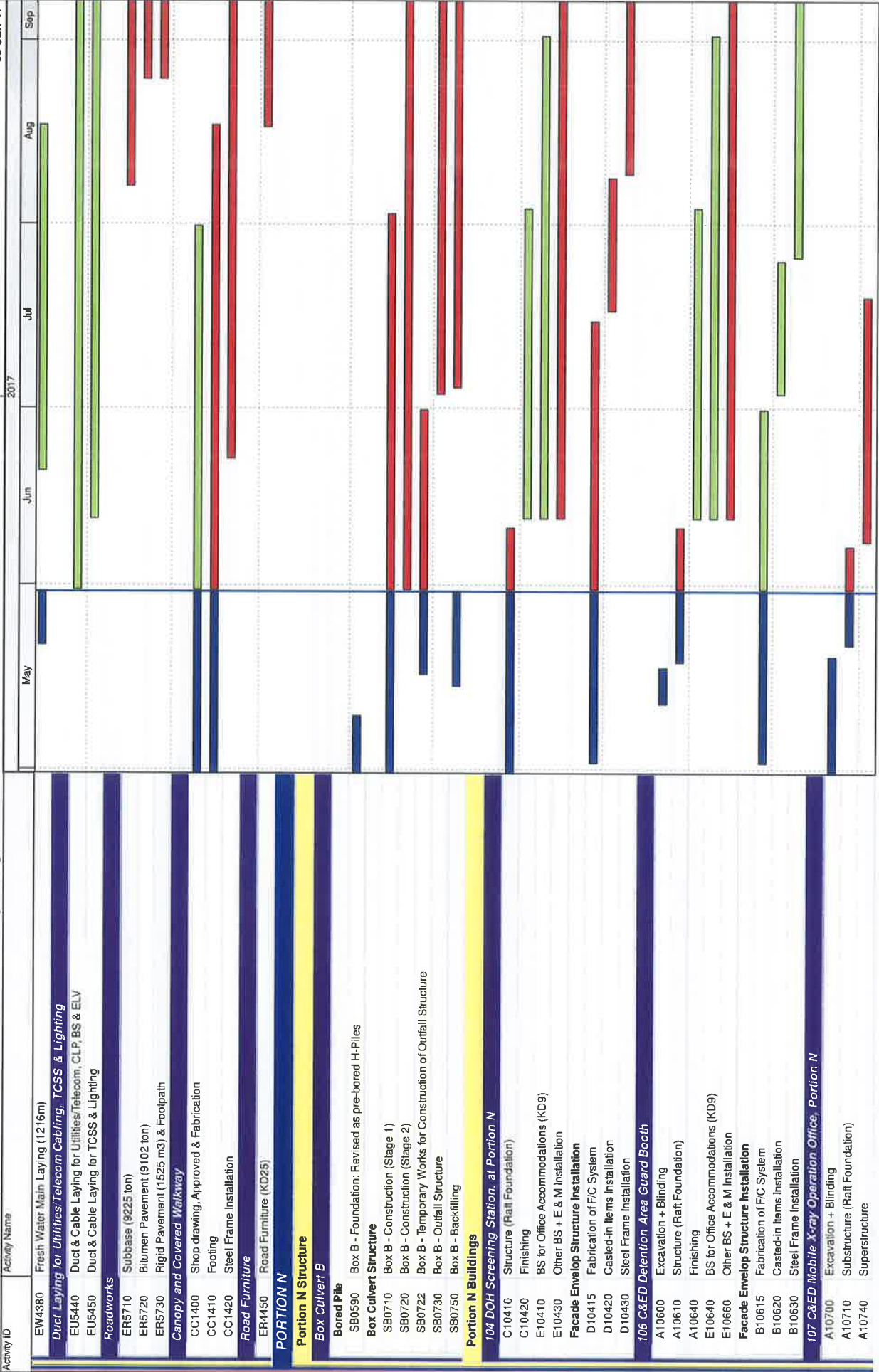
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Contract No. : HY2013/03

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities



THREE MONTH ROLLING PROGRAMME		Date	Revision	Checked	Approved
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES		31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	
Page 20 of 23		30-Apr-17	3MRP updated as of 30 Apr. 2017	ZJ	
		31-May-17	3MRP updated as of 31 May 2017	ZJ	

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

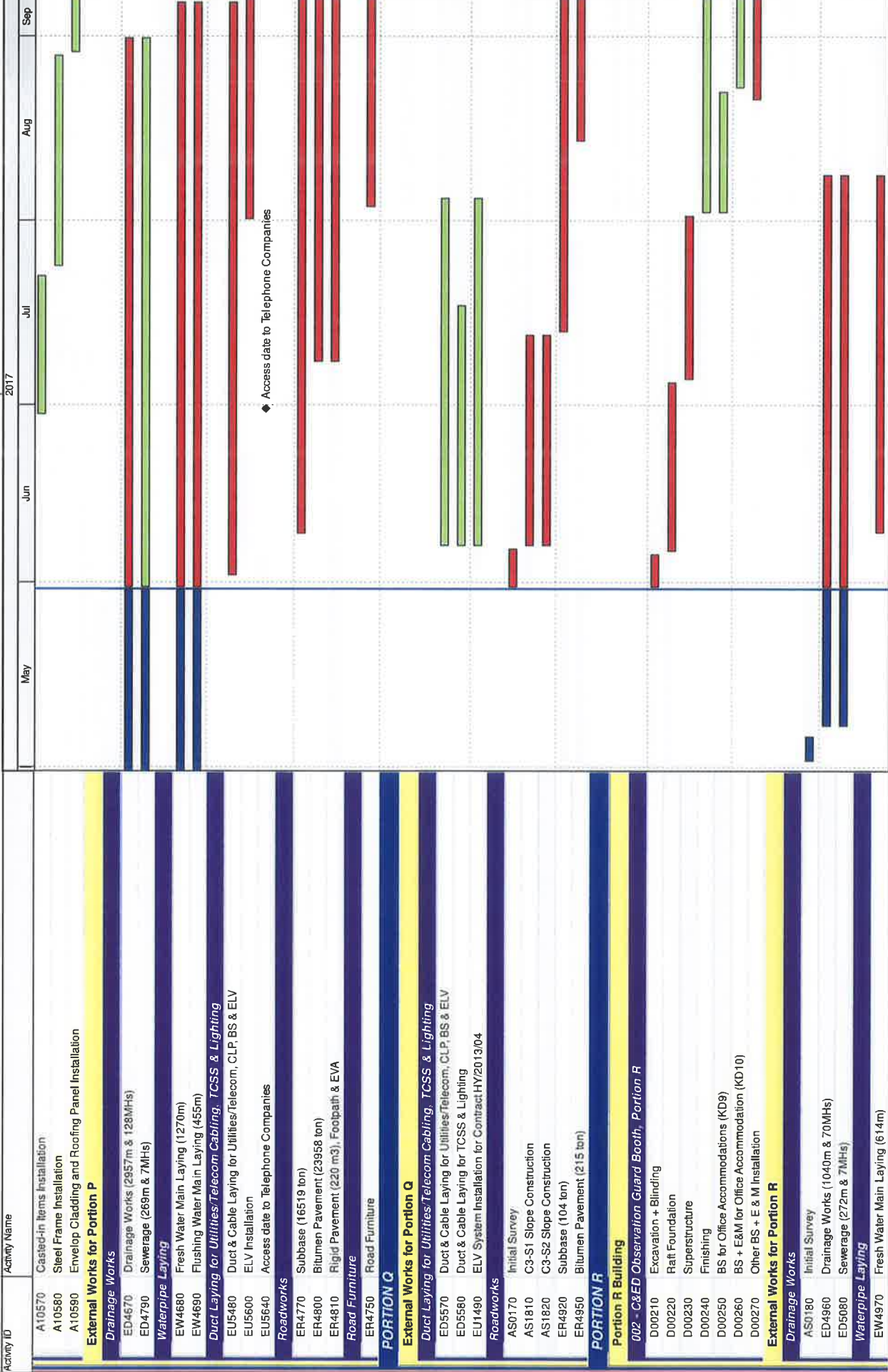
Activity ID	Activity Name	2017	May	Jun	Jul	Aug	Sep
A10750	Finishing (KD9)						
A10760	Other BS + E & M Installation (KD10)						
HPL Composite Panel Cladding System							
B10720	Fabrication of HPL Composite Panel System						
B10730	Casted-in Items Installation						
B10740	Steel Frame Installation						
200 - Inbound/Outbound Vehicle Deceleration Area							
ER5810	Construction of the Area and Access to the Interface Contractor						
202 - Outbound Cargo Mobile X-ray Operation Area							
ER5790	Radiation Screen Wall Construction						
ER5820	Construction of the Area and Access to the Interface Contractor						
211 - ImmD GV Secondary Examination Bays Outbound							
ER5940	Construction of the Bays and Access to the Interface Contractor						
External Works for Portion N							
Works in Location 1.7A							
EU1540	ELV Works & T&C in Location 1.7A						
Drainage Works							
ED4820	Drainage Works (964m & 56Mhs), Stage 1 (Southern)						
ED4650	Sewerage (383m & 12Mhs), Stage 1 (Southern)						
ED5750	Drainage Works (963m & 55Mhs), Stage 2 (Northern)						
ED5760	Sewerage (383m & 12Mhs), Stage 2 (Northern)						
Waterpipe Laying							
EW4530	Fresh Water Main Laying (641m)						
EW4540	Flushing Water Main Laying (413m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5460	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
EU5470	Duct & Cable Laying for TCSS & Lighting						
Roadworks							
ER4620	Subbase (6475 ton)						
ER4650	Bitumen Pavement (10144ton)						
ER4660	Rigid Pavement (183 m3), Footpath & EVA						
Road Furniture							
ER4600	Road Furniture (KD25)						
PORTION P							
Portion Structure							
Retaining Wall RW1							
RW1110	Construction of Retaining Wall RW1 (U-shape, 5 bays)						
RW1140	Backfilling RW1						
Portion P Buildings							
105 ImmD Guard Booth, Portion P							
A10510	Excavation + Blinding						
A10520	Substructure (Raft Foundation)						
A10530	On Grade Ground Slab						
A10540	Finishing						
E10500	BS for Office Accommodations (KD9)						
E10510	BS + E&M for Office Accommodation (KD10)						
E10520	Other BS + E & M Installation						
Facade Envelop Structure Installation							
A10560	Shop Drawing Submission and Approval						

Date	Revision	Checked	Approved
31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	
30-Apr-17	3MRP updated as of 30 Apr. 2017	ZJ	
31-May-17	3MRP updated as of 31 May 2017	ZJ	

THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

05-Jun-17



Date	Revision	Checked	Approved
31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	
30-Apr-17	3MRP updated as of 30 Apr. 2017	ZJ	
31-May-17	3MRP updated as of 31 May 2017	ZJ	

THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	2017					05-Jun-17
		May	Jun	Jul	Aug	Sep	
EW4960	Flushing Water Main Laying (222m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5500	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
EU5510	Duct & Cable Laying for TCSS & Lighting						
Readworks							
ER5060	Subbase (1734 ton)						
Landscape Works							
A5170	Design and Procurement for Irrigation System						
A5190	All landscape Soft & Hard Works						

■ Actual Work
■ Remaining Work
■ Critical
◆ Milestone

THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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Date	Revision	Checked	Approved
31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	
30-Apr-17	3MRP updated as of 30 Apr. 2017	ZJ	
31-May-17	3MRP updated as of 31 May 2017	ZJ	

Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
<p>Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossir</p> <p>Key Dates</p> <ul style="list-style-type: none"> A1000 Acceptance of Contract A1010 Commencement of Works A1020 Excision of Phase 2 (Section II & III) A1120 KD1 (Phase 1 / Section I) (28 Kiosks) A1470 KD2 (Phase 2 / Section II) (2 Kiosks) A1480 KD3 (Phase 2 / Section III) (42 Kiosks) <p>Interface Activities</p> <ul style="list-style-type: none"> A6660 Interface Management Plan Submission between C6 and C1 A6665 Interface Management Plan between C6 and C1 reviewed by Engineer A6670 Detailed Interface Document Submission between C6 and C1 A6675 Detailed Interface Document between C6 and C1 reviewed by Engineer A6680 Interface Management Plan Submission between C6 and C3 A6685 Interface Management Plan between C6 and C3 reviewed by Engineer A6690 Detailed Interface Document Submission between C6 and C3 A6695 Detailed Interface Document between C6 and C3 reviewed by Engineer A6900 Interface Management Plan Submission between C6 and C8 A6905 Interface Management Plan between C6 and C8 reviewed by Engineer A6910 Detailed Interface Document Submission between C6 and C8 A6915 Detailed Interface Document between C6 and C8 reviewed by Engineer <p>Site and Facility Inspection</p> <ul style="list-style-type: none"> A4730 Pre Site and Facility Inspection by Contractor at Location 1 - Deg1 A4740 Joint Site and Facility Inspection with Interface Contractor at Location 1 - Deg1 A4760 Pre Site and Facility Inspection by Contractor at Location 2 - Deg1 A4770 Joint Site and Facility Inspection with Interface Contractor at Location 2 - Deg1 A4772 Pre Site and Facility Inspection by Contractor at Location 2 - Deg2 A4774 Joint Site and Facility Inspection with Interface Contractor at Location 2 - Deg2 A4775 Joint Site and Facility Inspection with Interface Contractor at Location 2 for Server Installation A4780 Pre Site and Facility Inspection by Contractor at Location 3 - Deg1 A4790 Joint Site and Facility Inspection with Interface Contractor at Location 3 - Deg1 A4800 Pre Site and Facility Inspection by Contractor at Location 3 - Deg2 A4810 Joint Site and Facility Inspection with Interface Contractor at Location 3 - Deg2 A4820 Pre Site and Facility Inspection by Contractor at Location 3a - Deg1 A4830 Joint Site and Facility Inspection with Interface Contractor at Location 3a - Deg1 A4840 Pre Site and Facility Inspection by Contractor at Location 3a - Deg2 A4850 Joint Site and Facility Inspection with Interface Contractor at Location 3a - Deg2 A4851 Joint Site and Facility Inspection with Interface Contractor at Location 3a for Server Installation A4860 Pre Site and Facility Inspection by Contractor at Location 4 - Deg1 A4870 Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg1 A4880 Pre Site and Facility Inspection by Contractor at Location 4 - Deg2 A4890 Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg2 A4891 Pre Site and Facility Inspection by Contractor at Location 4a - Deg1 																			

Programme No.: HZMB-DWP
Data Date: 14-Aug-15

Actual Level of Effort

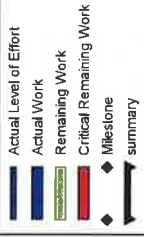
- Actual Work
- Remaining Work
- Critical Remaining Work
- Milestone
- summary

Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)

Date	Revision	Checked	Approved
14-Nov-15	Rev: 0	WC	LC

Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A4892	Joint Site and Facility Inspection with Interface Contractor at Location 4a - Deg1																		
A4900	Pre Site and Facility Inspection by Contractor at Location 4a - Deg2																		
A4910	Joint Site and Facility Inspection with Interface Contractor at Location 4a - Deg2																		
A4820	Pre Site and Facility Inspection by Contractor at Location 5 - Deg1																		
A4830	Joint Site and Facility Inspection with Interface Contractor at Location 5 - Deg1																		
A4840	Pre Site and Facility Inspection by Contractor at Location 5 - Deg2																		
A4850	Joint Site and Facility Inspection with Interface Contractor at Location 5 - Deg2																		
A4860	Pre Site and Facility Inspection by Contractor at Location 6 - Deg1																		
A4870	Joint Site and Facility Inspection with Interface Contractor at Location 6 - Deg1																		
A4880	Pre Site and Facility Inspection by Contractor at Location 6 - Deg2																		
A4890	Joint Site and Facility Inspection with Interface Contractor at Location 6 - Deg2																		
A5000	Pre Site and Facility Inspection by Contractor at Location 7 - Deg1																		
A5010	Joint Site and Facility Inspection with Interface Contractor at Location 7 - Deg1																		
A5020	Pre Site and Facility Inspection by Contractor at Location 8 - Deg1																		
A5030	Joint Site and Facility Inspection with Interface Contractor at Location 8 - Deg1																		
A5040	Pre Site and Facility Inspection by Contractor at Location 8 - Deg2																		
A5050	Joint Site and Facility Inspection with Interface Contractor at Location 8 - Deg2																		
A5060	Pre Site and Facility Inspection by Contractor at Location 9 - Deg1																		
A5070	Joint Site and Facility Inspection with Interface Contractor at Location 9 - Deg1																		
A5080	Pre Site and Facility Inspection by Contractor at Location 9 - Deg2																		
A5090	Joint Site and Facility Inspection with Interface Contractor at Location 9 - Deg2																		
A5100	Pre Site and Facility Inspection by Contractor at Location 10 - Deg1																		
A5110	Joint Site and Facility Inspection with Interface Contractor at Location 10 - Deg1																		
A5120	Pre Site and Facility Inspection by Contractor at Location 10 - Deg2																		
A5130	Joint Site and Facility Inspection with Interface Contractor at Location 10 - Deg2																		
A5140	Pre Site and Facility Inspection by Contractor at Location 11 - Deg1																		
A5150	Joint Site and Facility Inspection with Interface Contractor at Location 11 - Deg1																		
A5160	Pre Site and Facility Inspection by Contractor at Location 11 - Deg2																		
A5170	Joint Site and Facility Inspection with Interface Contractor at Location 11 - Deg2																		
A5180	Pre Site and Facility Inspection by Contractor at Location 12 - Deg1																		
A5190	Joint Site and Facility Inspection with Interface Contractor at Location 12 - Deg1																		
A5200	Pre Site and Facility Inspection by Contractor at Location 12 - Deg2																		
A5210	Joint Site and Facility Inspection with Interface Contractor at Location 12 - Deg2																		
A5220	Pre Site and Facility Inspection by Contractor at Location 13 - Deg1																		
A5230	Joint Site and Facility Inspection with Interface Contractor at Location 13 - Deg1																		
A5240	Pre Site and Facility Inspection by Contractor at Location 13 - Deg2																		
A5250	Joint Site and Facility Inspection with Interface Contractor at Location 13 - Deg2																		
A5260	Pre Site and Facility Inspection by Contractor at Location 14 - Deg1																		
A5270	Joint Site and Facility Inspection with Interface Contractor at Location 14 - Deg1																		
A5300	Pre Site and Facility Inspection by Contractor at Location 15 - Deg1																		
A5310	Joint Site and Facility Inspection with Interface Contractor at Location 15 - Deg1																		
A5320	Pre Site and Facility Inspection by Contractor at Location 15 - Deg2																		
A5330	Joint Site and Facility Inspection with Interface Contractor at Location 15 - Deg2																		
A5340	Pre Site and Facility Inspection by Contractor at Location 16 - Deg1																		
A5350	Joint Site and Facility Inspection with Interface Contractor at Location 16 - Deg1																		

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Data Date: 14-Aug-15



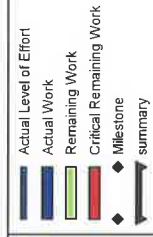
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)



Date	Revision	Checked	Approved
14-Nov-16	Rev. 0	WC	LC

Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
A5360	Pre Site and Facility Inspection by Contractor at Location 16 - Deg2																		
A5370	Joint Site and Facility Inspection with Interface Contractor at Location 16 - Deg2																		
A5375	Pre Site and Facility Inspection by Contractor at Location 17 - Deg1																		
A5378	Joint Site and Facility Inspection with Interface Contractor at Location 17 - Deg1																		
A5380	Pre Site and Facility Inspection by Contractor at Location 17 - Deg2																		
A5390	Joint Site and Facility Inspection with Interface Contractor at Location 17 - Deg2																		
A5395	Pre Site and Facility Inspection by Contractor at Location 18 - Deg1																		
A5396	Joint Site and Facility Inspection with Interface Contractor at Location 18 - Deg1																		
A5400	Pre Site and Facility Inspection by Contractor at Location 18 - Deg2																		
A5410	Joint Site and Facility Inspection with Interface Contractor at Location 18 - Deg2																		
A5420	Pre Site and Facility Inspection by Contractor at Location 19 - Deg1																		
A5430	Joint Site and Facility Inspection with Interface Contractor at Location 19 - Deg1																		
A5440	Pre Site and Facility Inspection by Contractor at Location 19 - Deg2																		
A5450	Joint Site and Facility Inspection with Interface Contractor at Location 19 - Deg2																		
A5470	Pre Site and Facility Inspection by Contractor at Inbound Vehicle Clearance Plaza																		
A5480	Joint Site and Facility Inspection with Interface Contractor at Inbound Vehicle Clearance Plaza																		
A5490	Pre Site and Facility Inspection by Contractor at Outbound Vehicle Clearance Plaza																		
A5550	Joint Site and Facility Inspection with Interface Contractor at Outbound Vehicle Clearance Plaza																		
Access Dates																			
A1070	Location 1(PCB (001) Basement)-Deg1 (270d)																		
A1081	Location 1(PCB (001) ELV Room (Grid Line E3))-Deg1 (270d)																		
A1090	Location 2(PCB (001) First Floor Main Server Room)-Deg1 (330d)																		
A1100	Location 2(PCB (001) First Floor Main Server Room)-Deg2 (380d)																		
A1101	Location 2(PCB (001) First Floor Main Server Room) - For Server Installation																		
A1102	Location 2(PCB (001) Ground Floor ELV Room (Grid Line E3)) - Deg1 (330d)																		
A1103	Location 2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line BD5)) - Deg1 (330d)																		
A1104	Location 2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line BD5)) - Deg2 (380d)																		
A1110	Location 3(Inbd Cargo Exam Bldg (037) MDF Room)-Deg1 (400d)																		
A1112	Location 3(Inbd Cargo Exam Bldg (037) ELV Room)-Deg1 (400d)																		
A1114	Location 3(Inbd Cargo Exam Bldg (037) Platform Control Room)-Deg1 (400d)																		
A1115	Location 3(Inbd Cargo Exam Bldg (037) Platform Control Room)-Deg2 (500d)																		
A1116	Location 3(Inbd Cargo Exam Bldg (037) Inspector Offices 128,129,130,131,128,129,140,141)-Deg1 (400d)																		
A1117	Location 3(Inbd Cargo Exam Bldg (037) Inspector Offices 128,129,130,131,128,129,140,141)-Deg2 (500d)																		
A1130	Location 3a(Inbd Cargo Exam Bldg ROCARS Room)-Deg1 (-)																		
A1131	Location 3a(Inbd Cargo Exam Bldg ROCARS Room)-Deg2 (480d)																		
A1140	Location 3a(Inbd Cargo Exam Bldg Main Server Room)-Deg1 (-)																		
A1141	Location 3a(Inbd Cargo Exam Bldg Main Server Room)-Deg2 (480d)																		
A1142	Location 3a(Inbd Cargo Exam Bldg Main Server Room) - For Server installation																		
A1150	Location 4(Outbd Cargo Exam Bldg (023))-Deg1 (530d)																		
A1160	Location 4(Outbd Cargo Exam Bldg (023))-Deg2 (680d)																		
A1161	Location 4a(Outbd Cargo Exam Bldg (023))-Deg1 (-)																		

Programme No.: HZMB-DWP
Data Date: 14-Aug-15



Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)



Date	Revision	Checked	Approved
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Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
A1162	Location 4a(Outbd Cargo Exam Bldg (023))-Deg2 (630d)																		
A1170	Location 5(Common Utility Enclosure & Staff Subway)-Deg1 (320d)																		
A1180	Location 5(Common Utility Enclosure & Staff Subway)-Deg2 (-)																		
A1190	Location 6(Common Utility Enclosure & Staff Subway)-Deg1 (400d)																		
A1200	Location 6(Common Utility Enclosure & Staff Subway)-Deg2 (-)																		
A1210	Location 7(Common Utility Enclosure & Staff Subway)-Deg1 (270d)																		
A1230	Location 8(Inbd Private Car Annex (025))-Deg1 (430d)																		
A1240	Location 8(Inbd Private Car Annex (025))-Deg2 (580d)																		
A1241	Location 8(Inbd Private Car Annex (025) Canopy)-Deg1 (430d)																		
A1242	Location 8(Inbd Private Car Annex (025) Canopy)-Deg2 (580d)																		
A1250	Location 9(Outbd Private Car Annex (032))-Deg1 (520d)																		
A1260	Location 9(Outbd Private Car Annex (032))-Deg2 (660d)																		
A1261	Location 9(Outbd Private Car Annex (032) Canopy)-Deg1 (520d)																		
A1262	Location 9(Outbd Private Car Annex (032) Canopy)-Deg2 (660d)																		
A1270	Location 10(Shuttle Bus Kiosks (006))-Deg1 (480d)																		
A1280	Location 10(Shuttle Bus Kiosks (006))-Deg2 (550d)																		
A1281	Location 10(Shuttle Bus Kiosks (006) Canopy)-Deg1 (480d)																		
A1282	Location 10(Shuttle Bus Kiosks (006) Canopy)-Deg2 (550d)																		
A1290	Location 11(Outbd Coach Kiosks (009))-Deg1 (400d)																		
A1300	Location 11(Outbd Coach Kiosks (009))-Deg2 (480d)																		
A1301	Location 11(Outbd Coach Kiosks (009) Canopy)-Deg1 (400d)																		
A1302	Location 11(Outbd Coach Kiosks (009) Canopy)-Deg2 (480d)																		
A1303	Location 11(Inbd Coach Kiosks (010))-Deg1 (400d)																		
A1304	Location 11(Inbd Coach Kiosks (010))-Deg2 (480d)																		
A1305	Location 11(Inbd Coach Kiosks (010) Canopy)-Deg1 (400d)																		
A1306	Location 11(Inbd Coach Kiosks (010) Canopy)-Deg2 (480d)																		
A1310	Location 12(Inbd Private Car Kiosks(027))-Deg1 (400d)																		
A1311	Location 12(Inbd Private Car Kiosks(027))-Deg2 (480d)																		
A1312	Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg1 (400d)																		
A1313	Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg2 (480d)																		
A1314	Location 12(Inbd GV Kiosks (028))-Deg1 (400d)																		
A1315	Location 12(Inbd GV Kiosks (028))-Deg2 (480d)																		
A1316	Location 12(Inbd GV Kiosks (028) Canopy)-Deg1 (400d)																		
A1317	Location 12(Inbd GV Kiosks (028) Canopy)-Deg2 (480d)																		
A1318	Location 12(Outbd GV Kiosks (029))-Deg1 (400d)																		
A1319	Location 12(Outbd GV Kiosks (029))-Deg2 (480d)																		
A1320	Location 12(Outbd GV Kiosks (029) Canopy)-Deg1 (400d)																		
A1321	Location 12(Outbd GV Kiosks (029) Canopy)-Deg2 (480d)																		
A1330	Location 13(Outbd Private Car Kiosks (030))-Deg1 (480d)																		
A1340	Location 13(Outbd Private Car Kiosks (030))-Deg2 (550d)																		
A1341	Location 13(Outbd Private Car Kiosks (030) Canopy)-Deg1 (480d)																		
A1342	Location 13(Outbd Private Car Kiosks (030) Canopy)-Deg2 (550d)																		
A1350	Location 14(Future-Outbd/Inbd Private Car Kiosks)-Deg1 (610d)																		
A1370	Location 15(Inbd Traffic Control Kiosk (100))-Deg1 (480d)																		
A1380	Location 15(Inbd Traffic Control Kiosk (100))-Deg2 (480d)																		

Programme No.: HZMB-DWP
Data Date: 14-Aug-15



Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)



Date	Revision	Checked	Approved
14-Nov-16	Rev. 0	WC	LC

Activity ID	Activity Name	2015			2016			2017			2018			2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A1390	Location 16(Outbd Traffic Control Kiosk (101))-Deg1 (480d)														
A1400	Location 16(Outbd Traffic Control Kiosk (101))-Deg2 (480d)														
A1410	Location 17(Inbd Private Car Exam Bldg(033))-Deg1 (-)														
A1420	Location 17(Inbd Private Car Exam Bldg(033))-Deg2 (550d)														
A1430	Location 18(Outbd Private Car Exam Bldg(024))-Deg1 (-)														
A1440	Location 18(Outbd Private Car Exam Bldg(024))-Deg2 (670d)														
A1450	Location 19(DOH Cargo Clearance Bldg(043))-Deg1 (-)														
A1460	Location 19(DOH Cargo Clearance Bldg(043))-Deg2 (550d)														
A1461	Underground Ducting between Inbd Cargo Exam Bldg (037) and DOH Cargo Clearance Bldg (043) and CUE														
A1462	Underground Ducting between Inbd Cargo Exam Bldg (037) and Inbd Vehicle Clearance Plaza														
A1463	Underground Ducting between CUE and Outbd Car Exam Bldg (023)														
A1464	Underground Ducting Between Outbd Cargo Exam Bldg (023) and Outbd Vehicle Clearance Plaza														
A1465	Underground Ducting between CUE and Outbd Vehicle Clearance Plaza														
A1466	Underground Ducting between CUE and Inbd P. Car Annex (025) and Shuttle Bus Kiosks (006)														
A1467	Underground Ducting between PCB(001) and Inbd Coach Kiosks(010)														
A1468	Underground Ducting between CUE and Outbd PCA (032)														
A1478	Inbound Vehicle Clearance Plaza (Assume same as Location 3)														
A1488	Outbound Vehicle Clearance Plaza (Assume same as Location 4 degree 1 + 51 day)														
Interfaces Provisions															
A7000	Inbound VID foundation and mounting structure (assume same as Access date of Inbound Vehicle Clearance Plaza)														
A7010	Inbound VTS foundation and mounting poles (assume same as Access date of Inbound Vehicle Clearance Plaza)														
A7020	Inbound TLS foundation and mounting poles (assume same as Access date of Inbound Vehicle Clearance Plaza)														
A7030	Outbound VID foundation and mounting structure (assume same as Access date of Outbound Vehicle Clearance Plaza)														
A7040	Outbound VTS foundation and mounting poles (assume same as Access date of Outbound Vehicle Clearance Plaza)														
A7050	Outbound TLS foundation and mounting poles (assume same as Access date of Outbound Vehicle Clearance Plaza)														
WA4 Site Erection & Servicing															
A1740	Possession of Site														
A1750	Method Statement & Drawing														
A1760	Place Order to prepare materials														
A1770	Review, revise and approve method statement														
A1780	Equipment mobilization and construction material delivered to the site														
A1790	Set up the alignment and level of the u-channel														
A1800	Trial pit excavation														
A1901	Excavation for chain-link fence footing														
A4540	Underground Utility detection														
A4550	Delivery of asphalt and fencing materials														
A4560	Trimming and leveling soil surface for paving asphalt material														
A4570	Remove the vegetation and loose material on the soil surface by backhoe														
A4580	Set out the alignment and level of the u-channel														

Programme No.: HZMB-DWP
Data Date: 14-Aug-15

Actual Level of Effort
 Actual Work
 Remaining Work
 Critical Remaining Work
 Milestone
 summary

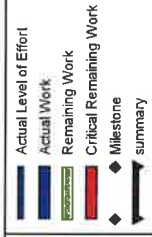
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)



Date	Revision	Checked	Approved
14-Nov-16	Rev: 0	W/C	LC

Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
A4590	Installation of fencing post along the site boundary																		
A4600	Excavation for underground drainage pipe																		
A4610	Evenly spread the asphalt scrap material by backhoe																		
A4620	Cast concrete for the u-channel and underground drainage pipe																		
A4630	Remove the u-channel framework																		
A4640	Installation of chain-link fencing along the site boundary																		
A4650	Installation of access doors																		
A4660	Excavation for drainage ditch																		
A4670	Cast concrete for the drainage ditch																		
A4680	Compact the asphalt scrap material																		
A4690	Land surveying																		
A4700	Inspection of chain-link fencing and access doors																		
A4710	Testing of drains																		
A4720	Completion of the works																		
	Detailed Design Specification																		
A1808	Preliminary System Proposal Submission																		
A1809	Engineer's agreement with preliminary system proposal																		
A1810	Draft Detailed Design Specification (DDS) Submission																		
A1814	Draft Hardware Function Design Specification for Computer system and Network system (HFD)																		
A1815	Draft Software Function Design Specification for Computer system and Network system (SFD)																		
A1820	Engineer's Review and Approval for Draft Detailed Design Specification (DDS)																		
A1823	Engineer's Review and Approval for Draft Hardware FDS for Computer system and Network system (HFD)																		
A1824	Engineer's Review and Approval for Draft Software FDS for Computer system and Network system (SFD)																		
A1829	Interface Requirements for CED (LBS, CED IT Server, Metro-Ethernet) and IMMID (AVCS)																		
A1830	Final DDS Submission (AVCSS,VTS,VDS)(Phase 1/Section I)																		
A1831	Development of System Security Plan																		
A1840	Engineer's Review and Approval for Final DDS Submission including System Security Plan (AVCSS)(Phase 1/Section I)																		
A1850	Final DDS Submission (AVCSS)(Phase 2/Section II&III)																		
A1860	Engineer's Review and Approval for DDS Submission (AVCSS)(Phase 2/Section II&III)																		
	Construction Design and Management																		
A6920	Construction Health and Safety Plan Submission																		
A6930	Construction Health and Safety Plan reviewed by Engineer																		
	Supply/Manufacture Mock-up items																		
A4748	Preparation of Kiosk equipment Mock-up																		
A4750	Installation of Kiosk equipment Mock-up																		
	Supply/Manufacture prototypes																		
A2900	Manufacture LED Display Prototype (VID, ODB and XDB)																		
A2910	Manufacture All-In-One Panel Prototype (AIOF)																		
	Software Design, Coding and Testing																		

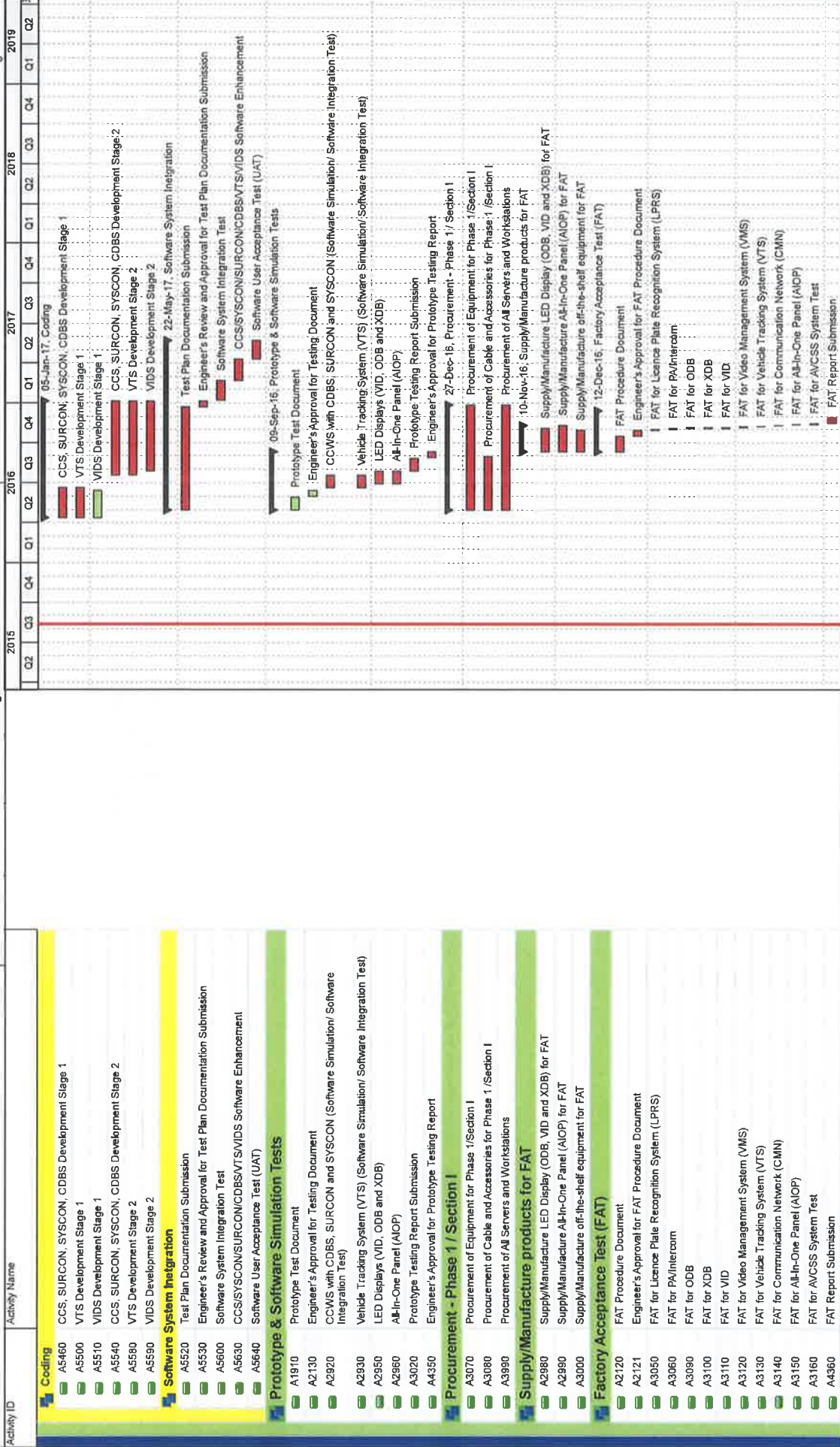
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Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)



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Hong Kong-Zhuhai-Macao Bridge
 Hong Kong Boundary Crossing
 Facilities - Automatic Vehicle
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Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A4370	Engineer's Approval for FAT Report Submission																		
Supply/Manufacture Equipment																			
A6830	Supply/Manufacture LED (ODB, VID and XDB) Display for installation																		
A6840	Supply/Manufacture AOP for installation																		
Delivery and Bench Acceptance Test for Phase 1/Section 1																			
A6740	Material On-Site for Phase 1/Section 1																		
A6750	Material Bench Acceptance Test for Phase 1/Section 1																		
A6850	Cable On-Site for Phase 1/Section 1																		
A6860	AOP On-Site for Phase 1/Section 1																		
A6970	AOP Bench Acceptance Test for Phase 1/Section 1																		
A6980	LED (ODB, VID and XDB) On-Site for Phase 1/Section 1																		
A6990	LED (ODB, VID and XDB) Bench Acceptance Test for Phase 1/Section 1																		
Installation - Phase 1/Section 1																			
Location 1(PCB 001) Basement																			
A3081	Cable Laying and termination at Location 1 and Location 2																		
Location 1(PCB 001) ELV Room (Grid Line E3)																			
A3101	Cable Laying and termination at Location 1 and Location 2																		
Location 2(PCB 001) Ground Floor ELV Room (Grid Line E3)																			
A3121	Cable Laying and termination at Location 1 and Location 2																		
Location 2(PCB 001) Ground Floor DOH Port Health Control Room (Grid Line BDI)																			
A2041	Cable Laying and termination at Location 1 and Location 2																		
A2042	Cable Testing																		
A2043	Intercom and PA system Installation																		
A2044	Intercom and PA system tuning																		
Location 2(PCB 001) First Floor Main Server Room																			
A2001	Cable Laying and termination at Location 1 and Location 2																		
A2002	Cable Testing																		
A2003	AVCSS Network and Server Installation																		
A2004	AVCSS Network and Server Tuning																		
Location 3(Inbd Cargo Exam Bldg 037) Inspector Offices 128,129,130,131,128,12																			
A3241	Cable Laying and termination in Location 3 and Location 3a																		
A3242	AVCSS SURCON WS and 55" LCD Installation																		
A3243	VTS WS Installation																		
A3245	SURCON, WS Tuning																		
Location 3(Inbd Cargo Exam Bldg 037) ELV Room																			
A3210	Cable Laying and termination between Location 3 and CUE																		
Location 3(Inbd Cargo Exam Bldg 037) Platform Control Room																			
A2071	Cable Laying and termination in Location 3 and Location 3a																		
A2072	AVCSS SYSCON WS and 55" TV Wall Installation																		
A2074	AVCSS SYSCON WS Tuning																		
Location 3(Inbd Cargo Exam Bldg 037) MDF Room																			
A3190	Cable Laying and termination between Location 3 and CUE																		
Location 3a(Inbd Cargo Exam Bldg 037) ROCARS Room																			
A2091	Cable Laying and termination in Location 3 and Location 3a																		
A2092	AVCSS SYSCON,SURCON and Intercom Installation																		

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█ Actual Level of Effort
█ Actual Work
 Remaining Work
█ Critical Remaining Work
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Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A2093	VTS WS Installation																		
A2094	VID WS Installation																		
A2096	SURCON, SYSCON, WS Tuning																		
Location 3a(Inbd Cargo Exam Bldg Main Server Room)																			
A3330	Cable Laying and termination in Location 3 and Location 3a																		
A3340	AVCSS Server Installation																		
A3350	VTS Server Installation																		
A3360	Servers Tuning																		
Location 4(Outbd Cargo Exam Bldg (023) MDF Room)																			
A3410	Cable Laying and termination between CUE and Location 4																		
Location 4 and 4a(Outbd Cargo Exam Bldg (023) ROCARS Room)																			
A3370	Cable Laying and termination in Location 4 and 4a																		
A3380	AVCSS SYSCON, SURCON and Intercom Installation																		
A3390	VTS WS Installation																		
A3400	SYSCON, SURCON, WS Tuning																		
Location 6(Common Utility Enclosure & Staff Subway)																			
A3430	Cable Laying between Location 5 and Location 7																		
A3440	Cable Laying between Location 5 and Location 6																		
A3480	ODB Switch Installation at EL Room 2-7																		
A3450	Cable Laying between Location 5 and Location 6																		
A3490	ODB Switch Installation at EL Room 8-9, 11-12																		
Location 7(Common Utility Enclosure & Staff Subway)																			
A3470	Cable Laying between Location 5 and Location 7																		
Location 12(Inbd Private Car Kiosks (GV Kiosks) (027,028,029))																			
Inbd Private Car Kiosks(027) - 9 nos (Phase 1)																			
A2452	Cable Containment in Kiosks																		
A2453	Cable Laying and termination																		
A2454	Cable Splicing, Testing and Labeling																		
A2460	AVCSS/DOH/MOM Kiosk Equipment Installation (9 nos)																		
A2470	ODB & XDB Installation (9 nos)																		
A4380	Inbd Private Car Kiosk Installation Complete																		
Inbd Goods Vehicle Kiosks(028) - 5 nos (Phase 1)																			
A2532	Cable Containment in Kiosks																		
A2533	Cable Laying and termination																		
A2534	Cable Splicing, Testing and Labeling																		
A2540	AVCSS/DOH/MOM Kiosk Equipment Installation (5 nos)																		
A2550	AOP Installation (5 nos)																		
A2560	ODB & XDB installation (5 nos)																		
A4390	Inbd Goods Vehicle Kiosks Installation Complete																		
Outbd Goods Vehicle Kiosks(029) - 5 nos (Phase 1)																			
A2572	Cable Containment in Kiosks																		
A2573	Cable Laying and termination																		
A2574	Cable Splicing, Testing and Labeling																		
A2580	AVCSS/DOH/MOM Kiosk Equipment Installation (5 nos)																		

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- Actual Work
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Activity ID	Activity Name	2015			2016			2017			2018			2019		
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
A2590	AICP Installation (5 nos)															
A2600	ODB & XDB Installation (5 nos)															
A4400	Outbd Goods Vehicle Kiosks Installation Complete															
Location 13(Outbd Private Car Kiosks (030)) - 9 nos (Phase 1)																
A3582	Cable Containment in Kiosks															
A3583	Cable Laying and termination															
A3584	Cable Splicing, Testing and Labeling															
A3590	AVCSS/DOH/MOM Kiosk Equipment Installation (9 nos)															
A3600	ODB & XDB Installation (9 nos)															
A4410	Outbd Private Car Kiosks Installation Complete															
Location 14(Future-Outbd/Private Car Kiosks) - 6+6 nos																
A2441	Cable Laying and termination at ELV Room in CUE															
Location 15(Inbd Traffic Control Kiosk (100))																
A3651	Cable Laying and termination															
A3652	AVCSS SYSCON, SURCON Installation															
A3660	VTS WS and 55" LCD Installation															
A3670	SYSCON, SURCON, WS Tuning															
Location 16(Outbd Traffic Control Kiosk (101))																
A3701	Cable Laying and termination															
A3702	AVCSS SYSCON, SURCON Installation															
A3710	VTS WS and 55" LCD Installation															
Location 17(Inbd Private Car Exam Bldg(033) Operational Office)																
A3750	Cable Laying and termination															
A3760	AVCSS SURCON and 55" LCD Installation															
A3770	SURCON Tuning															
Location 18 (Outbd Private Car Exam Bldg(024) Operational Office)																
A3780	Cable Laying and termination															
A3790	AVCSS SURCON and 55" LCD Installation															
Location 19 (DOH Cargo Clearance Bldg(043))																
A2111	Cable Laying and termination between Location 19 and CUE															
A2112	Cable Laying in Location 19															
A2113	PA and Intercom Installation															
A2123	PA and Intercom Tuning															
Inbd Vehicle Clearance Plaza - 8 nos VID, 7 nos VTS, 4 nos TLS																
A4050	Inbound VID cabling from pillar box to VID field equipment															
A4052	Inbound VTS cabling from pillar box to VTS field equipment															
A4054	Inbound TLS cabling from pillar box to TLS field equipment															
A4060	Inbound VID field equipment installation (8 VID)															
A4062	Inbound VTS field equipment installation (4 RFID + 3 Cameras)															
A4064	Inbound TLS field equipment installation (4 TLS)															
A4066	Inbound VID, VTS and TLS field equipment tuning															
Outbd Vehicle Clearance Plaza - 8 nos VID, 6 nos VTS, 4 nos TLS																
A4110	Outbound VID cabling from pillar box to VID field equipment															
A4120	Outbound VTS cabling from pillar box to VTS field equipment															
A4130	Outbound TLS cabling from pillar box to TLS field equipment															

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Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A4140	Outbound VID field equipment installation (8 VID)																		
A4150	Outbound VTS field equipment installation (3 RFID + 3 Cameras)																		
A4170	Outbound TLS field equipment installation (4 TLS)																		
A4180	Outbound VID, VTS and TLS field equipment tuning																		
A3810	Underground Ducting between Inbd Cargo Exam Bldg (037) and CUE																		
A3810	Cable Laying and termination (note: Access Date by C03)																		
A3830	Underground Ducting between Inbd Cargo Exam Bldg (037) and Inbd Vehicle Clea																		
A3830	Cable Laying and termination (note: Access Date by C03)																		
A3850	Underground Ducting between CUE and Outbd Car Exam Bldg (023)																		
A3850	Cable Laying and termination (note: Access Date by C03)																		
A3870	Underground Ducting Between Outbd Cargo Exam Bldg (023) and Outbd Vehicle I																		
A3870	Cable Laying and termination (note: Access Date by C03)																		
A3890	Underground Ducting between CUE and Outbd Vehicle Clearance Plaza																		
A3890	Cable Laying and termination (note: Access Date by C03)																		
A2150	On-Site Test and Commissioning (Phase 1 / Section I)																		
A2150	Testing & Commissioning Documents Submission (8 weeks before Testings carried out)																		
A2151	Engineer Approval for T&C Document																		
A2152	Joint Site Inspection for Permanent Power/Tele-communication for Initial on-site testing																		
A2153	Initial on-site Testing & Commissioning																		
A6601	Site Acceptance Test (Phase 1 / Section I)																		
A6601	Interface Readiness CED(LBS, CED IT, Metro-Ethernet) and IMMID (AVS)																		
A6603	SAT for AVCSS																		
A6603	SAT for Location 18 (AVCSS SURCON and 55" LCD)																		
A6630	SAT Test Document Submission																		
A6640	Software Manual Documentations Submission																		
A6600	Security Risk Assessment and Audit																		
A6800	SRAA (Assessment)																		
A6810	Fix per SRAA Assessment																		
A6820	SRAA Audit																		
A5610	Operability Period Test (Phase 1 / Section I)																		
A5610	Joint Site Inspection for utilities, telecom connection and metro ethernet for OPT																		
A5620	Operability Period Test (OPT) Phase 1																		
A5650	Operability Period Test (OPT) Phase 2																		
A2230	Completion (Phase 1 / Section I)																		
A2230	AVCSS - Certificate of Completion (Phase 1/Section I)																		
A2231	Certificate of Completion Approval by Engineer																		
A2180	Training and Document (Phase 1 / Section I)																		
A2180	Training Materials & Documentation Submission																		
A2190	Operation and Maintenance Training																		
A2240	Operation (Phase 1 / Section I)																		
A2240	Site Operation (Phase 1/Section I)																		
A2240	Engineering Support for Phase 1 / Section I																		
A2240	30-Jan-18, Engineering Support for Phase 1 / S																		

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Facilities - Automatic Vehicle
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Actual Level of Effort

Actual Work

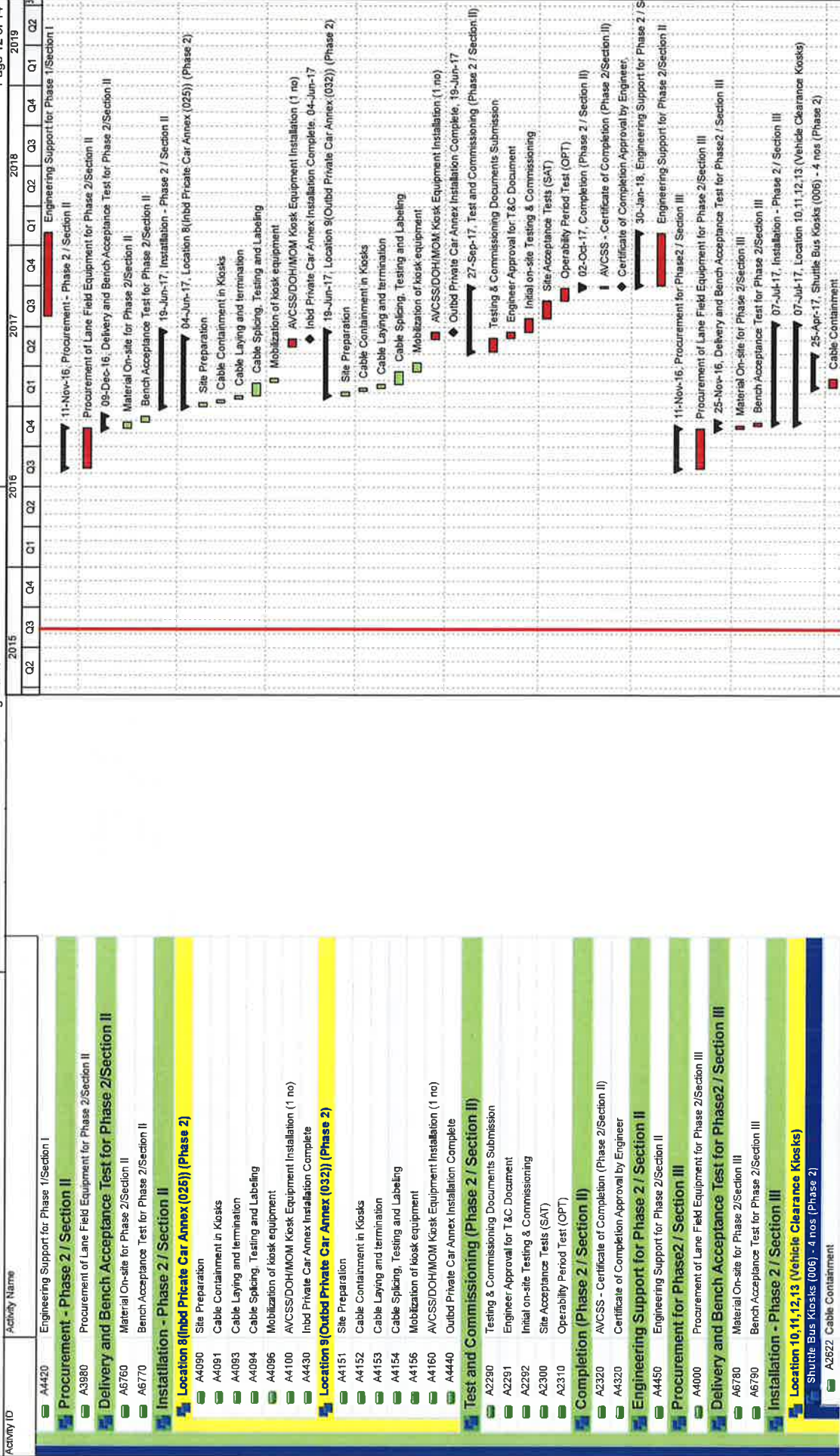
Remaining Work

Critical Remaining Work

Milestone summary

Legend:

- Actual Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
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		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A2623	Cable Laying and termination																		
A2630	AVCSS/DOH/MOM Kiosk Equipment Installation (4 nos)																		
A4460	Shuttle Bus Kiosks Installation Complete																		
	Outbd Coach Kiosks (009) - 4 nos (Phase 2)																		
A2662	Cable Containment																		
A2663	Cable Laying and termination																		
A2670	AVCSS/DOH/MOM Kiosk Equipment Installation (4 nos)																		
A4470	Outbd Coach Kiosks Installation Complete																		
	Inbd Private Car Kiosks (027) - 12 nos (Phase 2)																		
A2742	Cable Containment																		
A2743	Cable Laying and termination																		
A2744	Cable Splicing, Testing and Labeling																		
A2750	AVCSS/DOH/MOM Kiosk Equipment Installation (12 nos)																		
A2760	Kiosk Equipment Configuration (12 nos)																		
A4480	Inbd Private Car Kiosks Installation Complete																		
	Outbd Private Car Kiosks (030) - 12 nos (Phase 2)																		
A2782	Cable Containment																		
A2783	Cable Laying and termination																		
A2784	Cable Splicing, Testing and Labeling																		
A2790	AVCSS/DOH/MOM Kiosk Equipment Installation (12 nos)																		
A4500	Outbd Private Car Kiosks Installation Complete																		
	Inbd Goods Vehicle Kiosks (029) - 3 nos (Phase 2)																		
A2822	Cable Containment																		
A2823	Cable Laying and termination																		
A2825	Kiosk Equipment Configuration (3 nos)																		
A2830	AVCSS/DOH/MOM Kiosk Equipment Installation (3 nos)																		
A4510	Inbd Goods Vehicle Kiosks Installation Complete																		
	Outbd Goods Vehicle Kiosks (029) - 3 nos (Phase 2)																		
A2852	Cable Containment																		
A2853	Cable Laying and termination																		
A2855	Cable Splicing, Testing and Labeling																		
A2870	AVCSS/DOH/MOM Kiosk Equipment Installation (3 nos)																		
A4520	Outbd Goods Vehicle Kiosks Installation Complete																		
	Inbd Coach Kiosks (010) - 4 nos (Phase 2)																		
A2702	Cable Containment																		
A2703	Cable Laying and termination																		
A2705	Kiosk Equipment Configuration (4 nos)																		
A2710	AVCSS/DOH/MOM Kiosk Equipment Installation (2 nos)																		
A2720	AVCSS/DOH/MOM Kiosk Equipment Installation (2 nos)																		
A4480	Inbd Coach Kiosks Installation Complete																		
	Underground Ducting between CUE and Shuttle Bus Kiosk (006)																		
A3970	Cable Laying and termination (note: Access Date by C03)																		
	Underground Ducting between PCB(001) and Inbd Coach Kiosks(010)																		
A3930	Cable Laying and termination (note: Access Date by C03)																		
	Test and Commissioning (Phase 2 / Section III)																		

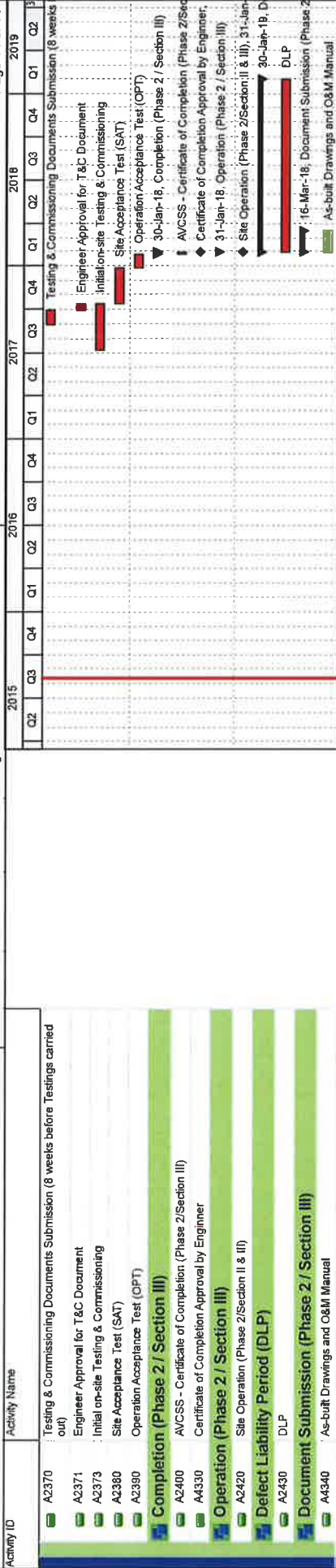
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Actual Level of Effort
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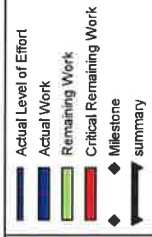
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The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The text is centered between two thick, horizontal black bars.

Report No.: 0165/15/ED/0820

Appendix D

Event / Action Plan

Appendix D –

Event / Action Plan for Air Quality and Noise Monitoring and Water Quality Monitoring and Ecological Monitoring

Event / Action Plan for Air Quality

Event	Action			
	ET	IEC	ER	Contractor
Action Level				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.

Event	Action			
	ET	IEC	ER	Contractor
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

Event	Action			
	ET	IEC	ER	Contractor
Limit Level				
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.

Event	Action			
	ET	IEC	ER	Contractor
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedances abated.

Event / Action Plan for Construction Noise Monitoring

Event	Action			
	ET	IEC	ER	Contractor
Action Level	<ol style="list-style-type: none"> 1. Notify IEC and Contractor; 2. Identify source, investigate the causes of exceedance and propose remedial measures; 3. Report the results of investigation to the IEC,ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.

Event	Action			
	ET	IEC	ER	Contractor
Limit Level	<ol style="list-style-type: none"> 1. Inform IEC, ER, EPD and Contractor; 2. Identify source; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Event / Action Plan for Water Quality

Event	ET Leader	IEC	ER	Contractor
Action level being exceeded by one sampling day	<ol style="list-style-type: none"> 1. Repeat in situ measurement on next day of exceedance to confirm findings 2. Identify source(s) of impact 3. Inform IEC, contractor and ER 4. Check monitoring data, all plant, equipment and Contractor's working methods 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of noncompliance in writing 2. Notify Contractor 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of noncompliance in writing 2. Notify Contractor 	<ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the noncompliance in writing 2. Rectify unacceptable practice 3. Amend working methods if appropriate
Action level being exceeded by two or more consecutive sampling days	<ol style="list-style-type: none"> 1. Repeat in situ measurement to confirm findings 2. Identify source(s) of impact 3. Inform IEC, Contractor and ER 4. Check monitoring data, all plant, equipment and Contractor's working methods 5. Discuss mitigation measures with IEC, ER and Contractor 6. Ensure mitigation measures are implemented 7. Increase the monitoring frequency to daily until no exceedance of Action level 8. Repeat measurement on next day of exceedance to confirm findings 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method 2. Discuss with ET and Contractor on possible remedial actions 3. Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly 4. Assess the effectiveness of the implemented mitigation measures 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of noncompliance in writing 2. Discuss with IEC on the proposed mitigation measures 3. Make agreement on mitigation measures to be implemented 4. Ensure mitigation measures are properly implemented 5. Assess the effectiveness of the implemented mitigation measures 	<ol style="list-style-type: none"> 1. Inform the Engineer and confirm notification of the noncompliance in writing 2. Rectify unacceptable practice 3. Check all plant and equipment and consider changes of working methods 4. Discuss with ET and IEC on possible remedial actions and propose mitigation measures to IEC and ER within 3 working days of notification 5. Implement the agreed mitigation measures 6. Amend working methods if appropriate

Event	ET Leader	IEC	ER	Contractor
Limit level being exceeded by one sampling day	<ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings 2. Identify source(s) of impact 3. Inform IEC, Contractor, ER and EPD 4. Check monitoring data, all plant, equipment and Contractor's working methods 5. Discuss mitigation measures with IEC, ER and Contractor 6. Ensure mitigation measures are implemented 7. Increase the monitoring frequency to daily until no exceedance of Limit level 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method 2. Discuss with ET and Contractor on possible remedial actions 3. Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly 4. Assess the effectiveness of the implemented mitigation measures 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures 3. Request Contractor to critically review the working methods 4. Ensure mitigation measures are properly implemented 5. Assess the effectiveness of the implemented mitigation measures 	<ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the noncompliance in writing 2. Rectify unacceptable practice 3. Check all plant and equipment and consider changes of working methods 4. Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER 5. Implement the agreed mitigation measures 6. Amend working methods if appropriate
Limit level being exceeded by two or more consecutive sampling days	<ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings 2. Identify source(s) of impact 3. Inform IEC, contractor, ER and EPD 4. Check monitoring data, all plant, equipment and Contractor's working methods 5. Discuss mitigation measures with IEC, ER and Contractor 6. Ensure mitigation measures are implemented 7. Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method 2. Discuss with ET and Contractor on possible remedial actions 3. Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the ER accordingly 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures 3. Request Contractor to critically review the working methods 4. Make agreement on the mitigation measures to be implemented 5. Ensure mitigation measures are properly implemented 6. Assess the effectiveness of the implemented mitigation measures 7. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level 	<ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the noncompliance in writing 2. Take immediate action to avoid further exceedance 3. Rectify unacceptable practice 4. Check all plant and equipment and consider changes of working methods 5. Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER 6. Implement the agreed mitigation measures 7. Resubmit proposals of mitigation measures if problem still not under control 8. As directed by the engineer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level

Event / Action Plan for Ecological Monitoring

Event	ET Leader	IEC	ER	Contractor
Action Level	<ol style="list-style-type: none"> 1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor; 5. Check monitoring data. 6. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and finding with the ET and the Contractor. 	<ol style="list-style-type: none"> 1. Discuss monitoring with the IEC and any other measures proposed by the ET; 2. If ER/SOR is satisfied with the proposal of any other measures, ER/SOR to signify the agreement in writing on the measures to be implemented. 	<ol style="list-style-type: none"> 1. Inform the ER/SOR and confirm notification of the non-compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the ER/SOR; 3. Implement the agreed measures.

Event	ET Leader	IEC	ER	Contractor
Limit Level	<ol style="list-style-type: none"> 1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor of findings; 5. Check monitoring data; 6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 7. If ET proves that the source of impact is caused by any of the construction activity by the works contract, ET to arrange a meeting to discuss with IEC, ER/SOR and Contractor the necessity of additional dolphin monitoring and/or any other potential mitigation measures (e.g., consider to modify the perimeter silt curtain or consider to control/temporarily stop relevant construction activity etc.) and submit to IEC a proposal of additional dolphin monitoring and/or mitigation measures where necessary. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor; 3. Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. 4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise ER/SOR of the results and findings accordingly. 5. Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly. 	<ol style="list-style-type: none"> 1. Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. 2. If ER/SOR is satisfied with the proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, ER/SOR to signify the agreement in writing on such proposals and any other mitigation measures. 3. Supervise the implementation of additional monitoring and/or any other mitigation measures. 	<ol style="list-style-type: none"> 1. Inform the ER/SOR and confirm notification of the non-compliance in writing; 2. Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures. 3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary. 4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.

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The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The text is white and is set against a black rectangular background that has a thin white border.

Report No.: 0165/15/ED/0820

Appendix E

Implementation Schedule for Environmental Mitigation Measures (EMIS)

Appendix E – Implementation Schedule of Environmental Mitigation Measures (EMIS)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
Air Quality				
S5.5.6.1	A1	1) The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	All construction sites	V
S5.5.6.2	A2	2) Proper watering of exposed spoil should be undertaken throughout the construction phase: <ul style="list-style-type: none"> • Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; • Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; • A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones. • The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; • Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; 	All construction sites	V
S5.5.6.2	A2	<ul style="list-style-type: none"> • When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; • The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials, • Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; • Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; • Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; • Any skip hoist for material transport should be totally enclosed by impervious sheeting; • Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top 	All construction sites	V
S5.5.6.2	A2	<ul style="list-style-type: none"> • Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; • Loading, unloading, transfer, handling or storage of bulk 	All construction sites	N/A

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<p>cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and</p> <ul style="list-style-type: none"> Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies 		
S5.5.6.3	A3	3) The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase.	All construction sites	V
S5.5.6.4	A4	4) Engineer to incorporate the controlled measures into the Particular Specification (PS) for the civil work. The PS should also draw the contractor's attention to the relevant latest Practice Notes issued by EPD.	All construction sites	V
S5.5.6.4	A5	5) Implement regular dust monitoring under EM&A programme during the construction stage.	Selected Representative dust monitoring station	V (Conducted by Contract No. HY/2010/02 and HY/2011/03)
S5.5.7.1	A6	<p>The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant;</p> <ul style="list-style-type: none"> Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system; All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP; Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system; The materials which may generate airborne dusty emissions should be wetted by water spray system; All receiving hoppers should be enclosed on three sides up to 3m above unloading point; All conveyor transfer points should be totally enclosed; All access and route roads within the premises should be paved and wetted; and Vehicle cleaning facilities should be provided and used by all concrete trucks before leaving the premises to wash off any dust on the wheels and/or body 	Selected Representative dust monitoring station	N/A
S5.5.2.7	A7	<p>The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point:</p> <ul style="list-style-type: none"> All road surface within the barging facilities will be paved; Dust enclosures will be provided for the loading ramp; Vehicles will be required to pass through designated wheels wash facilities; and Continuous water spray at the loading points 	All construction sites	V
Construction Noise (Air borne)				
S6.4.10	N1	<p>1) Use of good site practices to limit noise emissions by considering the following:</p> <ul style="list-style-type: none"> only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; 	All construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<ul style="list-style-type: none"> silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; mobile plant should be sited as far away from NSRs as possible and practicable; material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 		
S6.4.11	N2	2) Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	All construction sites	V
S6.4.12	N3	3) Install movable noise barriers (typically density@14kg/m acoustic mat or full enclosure close to noisy plants including compressor, generators, saw.	For plant items listed in Appendix 6D of the EIA report at all construction sites	N/A
S6.4.13	N4	4) Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.	For plant items listed in Appendix 6D of the EIA report at all construction site	V
S6.4.14	N5	5) Sequencing operation of construction plants where practicable	All construction sites where practicable	V
S5.1	N6	6) Implement a noise monitoring under EM&A programme.	Selected representative noise monitoring station	V (Conducted by Contract No. HY/2010/02)
Sediment				
S7.3	S1	1) The requirements as recommended in ETWB TC 34/2002 Management of Dredged/Excavated Sediment shall be included in the Particular Specification as appropriate.	All construction sites	V
Waste Management (Construction Waste)				
S8.3.8	WM1	<p>Construction and Demolition Material</p> <p>The following mitigation measures should be implemented in handling the waste:</p> <ul style="list-style-type: none"> Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; Carry out on-site sorting; Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and Implement an enhanced Waste Management Plan similar to E7WBTC (Works) No. 19/2005 - "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction. In addition, disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation 	All construction sites	V
S8.3.9-	WM2	C&D Waste	All construction	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
S8.3.11		<ul style="list-style-type: none"> • Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage. • The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage. 	sites	
S8.2.12- S8.3.15	WM3	<p><u>Chemical Waste</u></p> <ul style="list-style-type: none"> • Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. • Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation. • The storage area for chemical wastes should be clearly labeled and used solely for the storage of chemical waste; enclosed on at least 3 sides; have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20 % of the total volume of waste stored in that area, whichever is the greatest; have adequate ventilation; covered to prevent rainfall entering; and arranged so that incompatible materials are adequately separated. • Disposal of chemical waste should be via a licensed waste collector; be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers chemical waste collection service and can supply the necessary storage containers; or be to a reuser of the waste, under approval from the EPD. 	All construction sites	V
S8.3.16	WM4	<p><u>Sewage</u></p> <ul style="list-style-type: none"> • Adequate numbers of portable toilets should be provided for the workers. The portable toilets should be maintained in a state which will not deter the workers from utilizing these portable toilets. Night soil should be collected by licensed collectors regularly. 	All construction sites	V
S8.3.17	WM5	<p><u>General Refuse</u></p> <ul style="list-style-type: none"> • General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes. • A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law. 	All construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<ul style="list-style-type: none"> • Aluminium cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible. • Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor. • Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes. 		
Water Quality (Construction Phase)				
S9.11.1.7	W2	<p><u>Land Works</u> General construction activities on land should also be governed by standard good working practice. Specific measures to be written into the works contracts should include:</p> <ul style="list-style-type: none"> • wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters; • sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided; • storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks; • silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm; • temporary access roads should be surfaced with crushed stone or gravel; • rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities; • measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system; • open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms; • manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers; • discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system; 	Land-based works area	V
S9.11.1.7	W2	<ul style="list-style-type: none"> • all vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit; • wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain; • the section of construction road between the wheel washing bay and the public road should be surfaced 	Land-based works area	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<ul style="list-style-type: none"> • with crushed stone or coarse gravel; • wastewater generated from concreting, plastering, Internal decoration, cleaning work and other similar activities, shall be screened to remove large objects; • vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal; • the contractors shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately; • waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance; • all fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank; and • surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system. 		
S9.14	W3	Implement a water quality monitoring programme	Selected representative WQM stations	V (Conducted by Contract No. HY/2010/02)
Ecology (Construction Phase)				
S10.7	E4	<ul style="list-style-type: none"> • Watering to reduce dust generation; prevention of siltation of freshwater habitats; Site runoff should be desilted, to reduce the potential for suspended sediments, organics and other contaminants to enter streams and standing freshwater 	Land-based works areas	V
S10.7	E5	<ul style="list-style-type: none"> • Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time 	Land-based works areas	V
S10.7	E6	<ul style="list-style-type: none"> • Dolphin Exclusion Zone • Dolphin watching plan 	Marine works	V
S10.7	E7	<ul style="list-style-type: none"> • Decouple compressors and other equipment on working vessels • Proposal on design and implementation of acoustic decoupling measures applied during dredging and reclamation works • Avoidance of percussive piling 	Marine works	V
S10.7	E8	<ul style="list-style-type: none"> • Control vessel speed • Skipper training • Predefined and regular routes for working vessels; avoid Brother Islands. 	Marine Traffic	V
S10.10	E9	Vessel based dolphin monitoring	Northeast and Northwest Lantau	V (Conducted by Contract No. HY/2010/02)
Fisheries				
S11.7	F4	<ul style="list-style-type: none"> • Maritime Oil Spill Response Plan (MOSRP); • Contingency plan. 	HKBCF	V
Landscape & Visual (Detailed Design Phase)				
S14.3.3.1	LV1	<p>General design measures include:</p> <ul style="list-style-type: none"> • Roadside planting and planting along the edge of the HKBCF Island is proposed; • Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory 	HKBCF	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<p>hydro-seeding and planting;</p> <ul style="list-style-type: none"> • Protection measures for the trees to be retained during construction activities; • Optimizing the sizes and spacing of the bridge columns; • Fine-tuning the location of the bridge columns to avoid visually-sensitive locations; • Providing planting area around peripheral of HKBCF for tree planting screening effect; • Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline; • For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF; and • Fine-tuning the sizes of the structural members to minimize the bulkiness of buildings and adjustment of building arrangement to minimise disturbance to surrounding vegetation in the HKBCF. 		
Landscape & Visual (Construction Phase)				
S14.3.3.3	LV2	<p>Mitigate both Landscape and Visual Impacts</p> <p>G1. Grass-hydroseed bare soil surface and stock pile areas.</p> <p>G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge footbridge to screen bridge and traffic.</p> <p>G3. Not applicable as this is for HKLR.</p> <p>G4. For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF</p> <p>G5. Vegetation reinstatement and upgrading to disturbed areas</p> <p>G6. Maximizing new tree shrub and other vegetation planting to compensate tree felled and vegetation removed</p> <p>G7. Providing planting area around peripheral of HKBCF for tree planting screening effect;</p> <p>G8. Plant salt-tolerant native and shrubs etc along the planter strip at affected seawall.</p> <p>G9. Reserve of loose natural granite rocks for re-use. Provide new coastline to adopt "natural-look" by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enhance "natural-look" of the new coastline.</p>	HKBCF	N/A
S14.3.3.3	LV3	<p><u>Mitigate Visual Impacts</u></p> <p>V1. Minimize time for construction activities during construction period.</p> <p>V2. Provide screen hoarding at the portion of the project site / works areas / storage areas near VSRs who have close low-level views to the Project during HKBCF construction.</p>	HKBCF	N/A
EM&A				
S15.2.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual	All construction sites	V
S15.5 – S15.6	EM2	<p>1) An Environmental Team needs to be employed as per the EM&A Manual.</p> <p>2) Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation</p>	All construction sites	V

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Appendix F

Site Audit Findings and Corrective Actions

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Appendix F – Site Audit Findings and Corrective Actions

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. During the reporting period, 13 site inspections were carried out on 2, 9, 16, 24 and 30 March 2017, 5, 12, 20, and 28 April 2017 and 5, 11, 18 and 26 May 2017 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area).

Particular observations during the site inspections are described below.

For Contract No. HY/2013/03

24 February 2017

1. CHEC was reminded to provide drip tray for chemical containers. Subsequently, drip tray for chemical containers were provided. The observation was closed on 02 March 2017.
2. CHEC was reminded to provide maintenance for a generator in A8 Bridge which emitted smoke. Subsequently, the generator was removed. The observation was closed on 02 March 2017.
3. CHEC was reminded to remove stagnant water onsite. Subsequently, stagnant water was removed. The observation was closed on 02 March 2017.
4. CHEC was reminded to remove general refuse accumulated at Box Culvert B. Subsequently, general refuse accumulated at Box Culvert B was removed. The observation was closed on 02 March 2017.

02 March 2017

1. The Contractor was reminded to increase watering for dust suppression on site. Subsequently, watering for dust suppression was provided. The observation was closed on 09 March 2017.
2. The Contractor was reminded to remove food waste accumulated at Building 026 and 057. Subsequently, food waste accumulated at Building 026 and 057 were removed. The observation was closed on 09 March 2017.

09 March 2017

1. The Contractor was reminded to remove the general refuse accumulated at Building 054 and 037. Subsequently, general refuse accumulated at Building 054 and 037 was removed. The observation was closed on 16 March 2017.
2. The Contractor was reminded to remove stagnant water accumulated at drip tray for chemical containers at Building 054. Subsequently, stagnant water accumulated at drip tray for chemical containers at Building 054 was removed. The observation was closed on 16 March 2017.

16 March 2017

1. The Contractor was reminded to remove the food waste accumulated at Building 037 and 038. Subsequently, food waste accumulated at Building 037 and 038 were removed. The observation was closed on 24 March 2017.

24 March 2017

1. The Contractor was reminded to remove stagnant water accumulated at Building 037. Subsequently, stagnant water accumulated at Building 037 was removed. The observation was closed on 30 March 2017.

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2. The Contractor was reminded to remove the construction waste accumulated at Building 037.
Subsequently, construction waste accumulated at Building 037 were removed. The observation was closed on 30 March 2017.
3. The contractor was reminded to remove food waste accumulated at STP. Subsequently, food waste accumulated at STP were removed. The observation was closed on 30 March 2017.

30 March 2017

1. The Contractor was reminded to remove food waste accumulated at Building 033. Subsequently, food waste was removed. The observation was closed on 05 April 2017.
2. The Contractor was reminded to remove the stagnant water accumulated at the drip tray of the chemical container of Building 033. Subsequently, stagnant water at the drip tray was removed. The observation was closed on 05 April 2017.

5 April 2017

1. The Contractor was reminded to increase watering for dust suppression on site. Subsequently, watering was increased for dust suppression. The observation was closed on 12 April 2017.
2. The Contractor was reminded to remove stagnant water accumulated at Building 037. Subsequently, stagnant water was removed. The observation was closed on 12 April 2017.
3. The Contractor was reminded to remove construction waste accumulated at Building 054, 041 and 042. Subsequently, construction waste was removed. The observation was closed on 12 April 2017.

12 April 2017

1. The Contractor was reminded to remove general waste accumulated at CUE works area. Subsequently, general waste was removed. The observation was closed on 20 April 2017.
2. The Contractor was reminded to remove stagnant water accumulated at CUE works area. Subsequently, stagnant water was removed. The observation was closed on 20 April 2017.

20 April 2017

1. The Contractor was reminded to provide drip tray for the chemical containers at Building 037. Subsequently, drip trays were provided. The observation was closed on 28 April 2017.
2. The Contractor was reminded to increase watering for dust suppression on site. Subsequently, watering was increased for dust suppression. The observation was closed on 28 April 2017.

28 April 2017

1. The Contractor was reminded to remove stagnant water accumulated at drip trays at CUE works area. Subsequently, stagnant water at drip trays was removed. The observation was closed on 05 May 2017.
2. The Contractor was reminded to improve housekeeping at Bridge A7. The Contractor was reminded to improve housekeeping at Bridge A7. Subsequently, housekeeping was improved. The observation was closed on 05 May 2017.

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05 May 2017

1. The Contractor was reminded to provide drip trays for chemical containers at Building 037. Subsequently, drip trays were provided. The observation was closed on 11 May 2017.
2. The Contractor was reminded to remove general waste accumulated at Building 037. Subsequently, general waste was removed. The observation was closed on 11 May 2017.

11 May 2017

1. The Contractor was reminded to increase watering for dust suppression on site. Subsequently, watering was increased for dust suppression. The observation was closed on 18 May 2017.
2. The Contractor was reminded to remove stagnant water accumulated at Building 040. Subsequently, stagnant water was removed. The observation was closed on 18 May 2017.

18 May 2017

1. The Contractor was reminded to remove stagnant water accumulated at Building 041. Subsequently, stagnant water was removed. The observation was closed on 26 May 2017.
2. The Contractor was reminded to remove general waste accumulated at A9 Bridge. Subsequently, general waste was removed. The observation was closed on 26 May 2017.

26 May 2017

1. The Contractor was reminded to remove general and construction waste accumulated on site. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.
2. The Contractor was reminded to remove stagnant water accumulated on site. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

02 March 2017

1. Nil findings.

09 March 2017

1. Nil findings.

16 March 2017

1. Nil findings.

24 March 2017

1. Nil findings.

30 March 2017

1. Nil findings.

05 April 2017

1. Nil findings.

12 April 2017

1. Nil findings.

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20 April 2017

1. Nil findings.

28 April 2017

1. Nil findings.

05 May 2017

1. Nil findings.

11 May 2017

1. Nil findings.

18 May 2017

1. Nil findings.

26 May 2017

1. Nil findings.

The Contractor has rectified most of the observations as identified during environmental site inspections during the reporting period. Follow-up actions for outstanding observations will be inspected during the next site inspections.

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Appendix G

Waste Flow Table



Monthly Summary of Waste Flow Table for 2017 (year)

Name of Person completing the Record: Marko Chan

Month	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of Non-inert C&D Wastes Generated Monthly					
	Total Quantity Generated (in '000m ³)	Broken Concrete (see Note 1) (in '000m ³)	Reused in the Contract (in '000m ³)	Reused in other Projects (in '000m ³)	Disposed as Public Fill (in '000m ³)	Metals (in '000 Kg)	Paper/ cardboard packaging (in '000 Kg)	Plastics (see Note 2) (in '000 Kg)	Chemical Waste (in '000 Kg)	Others, e.g. general refuse (in '000m ³)	
Jan	0.000	0	0	0	0.000	0	0	0	0	0.580	
Feb	0.000	0	0	0	0.000	0	0	0	0	0.585	
Mar	0.000	0	0	0	0.000	0	0	0	0	0.999	
Apr	0.043	0	0	0	0.043	0	0	0	0	1.073	
May	12.682	0	0	12.637	0.045	0	0	0	0	1.321	
Jun											
Jul											
Aug											
Sept											
Oct											
Nov											
Dec											
Total	12.725	0.000	0.000	12.637	0.088	0.000	0.000	0.000	0.000	4.558	

Notes:

- (1) Broken concrete for recycling into aggregates.
- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (3) In order to convert the quantities of inert C&D materials reused in other projects (29,065 tonnes) from tonnes to m³, a conversion factor is used and shown as follows:
 Volume (in m³) = Mass (in tonnes) / 2.3 (in tonnes/ m³)
 Where 2.3 (in tonnes/ m³) is the density of surplus filling materials provided by the Contractor

Monthly Summary of Excavated Marine Sediment for 2017 (year)

Month	Total Quantity of Excavated Marine Sediment Generated in '000m ³	Reused in this contract in '000m ³	Reused in other Projects in '000m ³	Disposed of at CMP in '000m ³
Jan	0.656	0.000	0.000	0.656
Feb	0.264	0.000	0.000	0.264
Mar	0.000	0.000	0.000	0.000
Apr	1.288	0.000	0.000	1.288
May	1.440	0.000	0.000	1.440
Jun				
Jul				
Aug				
Sep				
Oct				
Nov				
Dec				
Total	3.648	0.000	0.000	3.648



ATAL Technologies Ltd.

Contract No. HY/2013/06 HKBCF Automatic Vehicle Clearance Support System

Location: Artificial Island of HKIAP (C3 Area)

Ver: 1st
Date: Jan 2017

Monthly Summary Waste Flow Table for 2017

Month	Inert C&D Waste disposal / 廢性廢物 (in tonnes) (see Note 1)				Non-inert C&D Waste disposal 非廢性廢物 (in tonnes)				Waste to be recycled and returned / 可再循環利用或回收的廢物								Total Quantity Generated 總生產量	
	Reused in the Work Package (e.g. backfilling) 再用於工程 (如回填)		Reused in other Projects 再用於其他工程		Inert Waste (e.g. soil, broken concrete, rubble, fill material etc.) 廢性廢物 (如泥, 石, 磚, 瓦, 填料等)		Others (e.g. general refuse, broken formwork etc) 其他 (如垃圾, 廢板枋等)		Metals 金屬		Plastic 塑膠		Paper/cardboard packaging 廢紙/包裝紙類		Chemical Waste 化學廢物		Est. Qty. 估計數量	Act. Qty. 實際數量
	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量		
January	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
February	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
March	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.002	0.002	
April	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.005	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.005	0.005	
May	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.020	0.020	0.020	0.000	0.000	0.000	0.000	0.000	0.020	0.020	
June																		
July																		
August																		
September																		
October																		
November																		
December																		
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.027	0.027	0.030	0.030	0.000	0.000	0.004	0.004	0.000	0.027	0.027	

Notes: (1) The quantities of C&D Materials, in tonne, was calculated by multiply the estimated volume, in m³, with the density of the soil, which is 1.5 gcm⁻³.

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Appendix H

Environmental Licenses and Permits

Appendix H - Environmental Permit / Licences Summary for Contract No. HY/2013/03

Item	Permit/Licence Registration	Permit No.	Work Area	Application Date	Issue Date	Valid Date		Status	Remark
						From	To		
1	Environmental Permit Pursuant to Environmental Impact Assessment Ordinance Notification	EP-353/2009/K	HKBCF	24-Mar-16	11-Apr-16	11-Apr-16	Nil	Valid	
2	Pursuant to Section 3(1) of The Air Pollution Control (Construction Dust) Regulation Notification	Ref No. 387703	Main Site Area	15-Apr-15	15-Apr-15	15-Apr-15	Nil	Valid	
3	Pursuant to Section 3(1) of The Air Pollution Control (Construction Dust) Regulation Notification	Ref No. 387735	Works Area WA3	15-Apr-15	15-Apr-15	15-Apr-15	Nil	Valid	
4	Billing A/C for Construction Waste Disposal Pursuant to Section 6 & 9 of the Waste Disposal (Charges for Disposal of Construction waste) Regulation	A/C No. 7022228	Main Site Area, WA3 & 4	15-Apr-15	06-May-15	06-May-15	Nil	Valid	
5	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	5213-951-C1186-28	Main Site Area	28-Apr-15	01-Jun-15	01-Jun-15	Nil	Valid	
6	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	5213-974-C3597-03	Works Area WA4	28-Apr-15	01-Jun-15	01-Jun-15	Nil	Valid	
7	Water Discharge License Pursuant to Water Pollution Control Ordinance (Cap 358)	WT00022180-2015	Works Area WA3	29-Apr-15	04-Aug-15	03-Aug-15	31-Aug-20	Valid	
8	Water Discharge License Pursuant to Water Pollution Control Ordinance (Cap 358)	WT00025384-2016	Main Site Area	09-Mar-16	10-Nov-16	10-Nov-16	30-Sep-20	Valid	
9	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	PP-RS0028-16	Portion A, G, H & N	15-Sep-16	29-Sep-16	03-Oct-16	02-Apr-17	Valid until 02-Apr-17	
10	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS1267-16	Main Site Area	02-Dec-16	16-Dec-16	19-Dec-16	18-Mar-17	Valid until 18-Mar-17	
11	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS1329-16	Main Site Area	09-Dec-16	23-Dec-16	01-Jan-17	30-Apr-17	Valid until 30-Apr-17	
12	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0205-17	Main Site Area	01-Mar-17	15-Mar-17	19-Mar-17	18-Jun-17	Valid from 19-Mar-17	
13	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	PP-RS0008-17	Box Culvert B	06-Apr-17	20-Apr-17	21-Apr-17	19-Jul-17	Valid from 21-Apr-17	
14	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0382-17	Main Site Area	10-Apr-17	25-Apr-17	27-Apr-17	24-Jul-17	Valid from 27-Apr-17	

15	Permit issued Under the Dumping at Sea Ordinance	EP/MD/17-170	East of Sha Chau (CMP Vd)	12-Jan-17	24-Jan-17	05-Feb-17	04-Mar-17	Valid until 04-Mar-17	
16	Permit issued Under the Dumping at Sea Ordinance	EP/MD/17-190	East of Sha Chau (CMP Vd)	01-Mar-17	17-Mar-17	20-Mar-17	19-Apr-17	Valid from 20-Mar-17 to 19-Apr-17	
17	Permit issued Under the Dumping at Sea Ordinance	EP/MD/18-005	East of Sha Chau (CMP Vd)	10-Apr-17	24-Apr-17	25-Apr-17	24-May-17	Valid from 25-Apr-17 to 24-May-17	

Environmental Permit / Licences Summary for Contract No. HY/2013/06 within the HY/2013/03 site works area

Item	Permit/Licence Registration	Permit No.	Work Area	Application Date	Issue Date	Valid Date		Status	Remark
						From	To		
1	Environmental Permit Pursuant to Environmental Impact Assessment Ordinance	EP-353/2009/K	HKBCF	24-Mar-16	11-Apr-16	11-Apr-16	Nil	Valid	
2	Billing A/C for Construction Waste Disposal Pursuant to Section 6 & 9 of the Waste Disposal (Charges for Disposal of Construction waste) Regulation	A/C No. 7023015	Main Site Area	07-Aug-15	20-Aug-15	20-Aug-15	Nil	Valid	
3	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	#

The Contractor of Contract No. HY/2013/06 was advised to register as a chemical waste producer when chemical waste is expected to generate for the foreseeable future from the operations.

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Appendix I

Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions

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Appendix I –

Statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

For Contract No. HY/2013/03

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This reporting period	3	0	0
From commencement date of construction to end of reporting period	8	0	0

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This reporting period	0	0	0
From commencement date of construction to end of reporting month	0	0	0

5 July 2017

By Fax (3468 2076) and By Post

AECOM Asia Co. Ltd.
The PRE's Office
5 Ying Hei Road, Tung Chung, Lantau
Hong Kong

Attention: Mr. W.S. Ng

Dear Sir,

**Re: Agreement No. CE 48/2011 (EP)
Environmental Project Office for the
HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities,
and Tuen Mun-Chek Lap Kok Link – Investigation**

**Contract No. HY/2013/03 – HZMB HKBCF – Vehicle Clearance Plazas and
Ancillary Buildings and Facilities
Quarterly EM&A Report No.7 for March 2017 to May 2017**

Reference is made to the Environmental Team's submission of Quarterly Environmental Monitoring & Audit Report No.7 for March 2017 to May 2017 certified by the ET Leader (ET's ref.: "MCL/ED/0374/2017/C" dated 4 July 2017) and provided to us via e-mail on 4 July 2017.

We are pleased to inform you that we have no adverse comment on the captioned report. We write to verify the captioned submission in accordance with Section 16.4.1 of the Updated EM&A Manual (2011).

Thank you very much for your attention and please feel free to contact the undersigned should you require further information.

Yours faithfully,
For and on behalf of
Ramboll Environ Hong Kong Limited



Raymond Dai
Independent Environmental Checker

c.c.	HyD	Mr. Vico Cheung	(By Fax: 3188 6614)
	HyD	Mr. Ken Woo	(By Fax: 3188 6614)
	MCL	Mr. Arthur Cheng	(By Fax: 2450 8032)
	CHEC	Mr. Johnason Ko	(By Fax: 2887 3014)

Internal: DY, YH, ENPO Site

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Date 04 July 2017
Our Ref. MCL/ED/0374/2017/C

Ramboll Environ Hong Kong Limited
(formerly ENVIRON Hong Kong Limited)
21/F, BEA Harbour View Centre
56 Gloucester Road, Wan Chai
Hong Kong

BY HAND

Attn.: Mr. Raymond Dai, IEC

Dear Sir,

**Quarterly EM&A Report for March 2017 to May 2017
Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities –
Vehicle Clearance Plazas and Ancillary Buildings and Facilities (Contract No. HY/2013/03)**

Pursuant to Section 16.4 of the updated EM&A Manual for Hong Kong Boundary Crossing Facilities (Version 1.0) covering the captioned contract, we are pleased to submit the certified Quarterly EM&A Report for March 2017 to May 2017 for your verification.

Should you require further information, please do not hesitate to contact our Miss Jamie Tam at 3565 4157 or the undersigned at 3565 4115.

Yours faithfully,
for and on behalf of
MATERIALAB CONSULTANTS LIMITED



Arthur Cheng
Environmental Team Leader

AC/jt

Encl.

c.c. AECOM – Mr. P.K. Lee, Mr. W.S. Ng, Mr. Dominic Mow
RAMBOLL ENVIRON – Mr. Ray Yan, Mr. Andy Wong
CHEC – Mr. Marko Chan

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Report No.: 0165/15/ED/0820

**QUARTERLY ENVIRONMENTAL MONITORING & AUDIT
REPORT**

March 2017 to May 2017

Client: China Harbour Engineering Co., Ltd.

Project: Contract No. HY/2013/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities -
Vehicle Clearance Plazas and
Ancillary Buildings and Facilities

Report No.: 0165/15/ED/0820

Prepared by: Jamie Tam

Reviewed by: Bong Yu

Certified by:


Arthur Cheng
Environmental Team Leader

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EXECUTIVE SUMMARY

This Quarterly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2013/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities" (includes the construction works of Contract No. HY/2013/06 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System" within Contract No. HY/2013/03 works area) (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR). The Contract was awarded to China Harbour Engineering Co. Limited (construction works of Contract No. HY/2013/06 was awarded to ATAL Technologies Limited within Contract No. HY/2013/03 works area) (hereafter referred to as "the Contractor") and MaterialLab Consultants Limited (MCL) was appointed as the Environmental Team (ET) by the Contractor.

Contract No. HY/2013/03 (includes the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) is part of the "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities" (HZMB HKBCF) Project which is a "Designated Project" under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499) and for which an EIA Report (Register No. AEIAR-145/2009) was prepared and approved. The current Environmental Permit (EP) for HKBCF, namely No. EP-353/2009/K, was issued on 11 April 2016. These documents are available through the EIA Ordinance Register. Commencement of Contract No. HY/2013/03 took place on 10 April 2015 while the construction works and the EM&A programme of Contract No. HY/2013/03 commenced on 29 August 2015 (commencement of Contract No. HY/2013/06 took place on 14 August 2015 while the construction works and the EM&A programme of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area commenced on 13 September 2016).

MaterialLab Consultants Limited (MCL) has been appointed by the Contractor to implement the Environmental Monitoring & Audit (EM&A) programme for the Contract in accordance with the Updated EM&A Manual for HKBCF (Version 1.0) and will be providing environmental team services for the Contract. This is the 7th Quarterly EM&A Report for the Contract which summaries findings of the EM&A works during the reporting period from 01 March 2017 to 31 May 2017 (includes the findings of the EM&A programme of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area during the reporting period from 01 March 2017 to 31 May 2017) (the "reporting period").

Environmental Monitoring and Audit Progress

The EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKBCF (Version 1.0). It should be noted that the air quality and noise monitoring works for the Contract are covered by Contract No. HY/2010/02 "Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works" and Contract No. HY/2011/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF". The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7, noise monitoring at NMS2 and NMS3B, water quality monitoring at the locations shown in **Figure 3** and ecological monitoring as shown in **Figure 4** and **Figure 5** as part of EM&A programme if these monitoring stations are no longer covered under Contract Nos. HY/2010/02 and HY/2011/03. However, this is subject to ENPO's final decision on which ET should carry out the monitoring work at these stations.

The dates of site inspection for Contract No. HY/2013/03 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) during the reporting period are listed below:

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Environmental Site Inspection:

- 02, 09, 16, 24 and 30 March 2017
- 05, 12, 20 and 28 April 2017
- 05, 11, 18 and 26 May 2017

Breaches of Action and Limit Levels

Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 is reported in the monthly EM&A report prepared by Contract No. HY/2011/03.

There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

There was no Action and Limit Level exceedance for noise recorded at station NMS2 and station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

As silt curtain was installed on 11 May 2017 and therefore, water monitoring result is reported from May. There was no Action and Limit Level exceedance for water quality recorded at the monitoring stations shown at **Table 2.2** by the Environmental Team of Contract No. HY/2010/02 during May.

Ecological monitoring results at all transects are reported in the EM&A report prepared by Contract No. HY/2010/02.

Complaint Log

There were three complaints received in relation to the environmental impact during the reporting period.

Log No.	Environmental Complaint Ref. No.	Date of Complaint Receipt	Description
006	ENPO-C0110	21 March 2017	Water pollution
007	ENPO-C0113	28 March 2017	Noise and water pollution
008	ENPO-C0119	31 May 2017	Air pollution

After investigation, complaint no. 006 cannot be concluded that the captioned complaint was related to Contract No. HY/2013/03 due to lack of information. Complaint No. 007 and 008 were not related to Contract No. HY/2013/03.

Notifications of Summons and Successful Prosecutions

There were no notifications of summons or prosecutions received during this reporting period.

Reporting Changes

Changes on the EM&A programme were justified and verified by the ET Leader for Contract No. HY/2010/02 and the IEC respectively on 24 March 2017, and it was approved by EPD on 12 May 2017. The changes to the EM&A programme for the HKBCF project effective from 15 May 2017 are shown in the following:

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1. Water Quality Monitoring

Current and Alternative WQM Stations

WQM Station	Description	East	North
CS(Mf)3	Control Station	809989	821117
CS(Mf)3(N)	Control Station	808814	822355
SR5	Sensitive receiver (Artificial Reef in NE Airport)	811489	820455
SR5(N)	Sensitive receiver (Artificial Reef in NE Airport)	812569	821475
IS10	Impact Station (Close to HKBCF construction site)	812577	820670
IS10(N)	Impact Station (Close to HKBCF construction site)	812942	820881

Remarks: CS(Mf)3(N), SR5(N) and IS10(N) are alternative WQM Stations.

The locations of current and alternative WQM stations are shown in **Figure 3**.

2. Dolphin Monitoring

Co-ordinates of Vessel-based Transect Lines (changes are marked in red):

Line No.		Easting	Northing
2	Start Point	805476	820800
2	End Point	805476	826654
3	Start Point	806464	821150
3	End Point	806464	822911
4	Start Point	807518	821500
4	End Point	807518	829230
5	Start Point	808504	821850
5	End Point	808504	828602
6	Start Point	809490	822150
6	End Point	809490	825352
7	Start Point	810499	822000
7	End Point	810499	824613
24	Start Point	805476	815900
24	End Point	805476	819100

Remarks: Line No. 24 is a new vessel-based transect line for dolphin monitoring.

The original co-ordinates for the transect lines and layout map before the changes of the EM&A programme are shown in **Figure 4** and the new co-ordinates for the transect lines and layout map after the changes of the EM&A programme with effect from 15 May 2017 are shown in **Figure 5**.

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1. INTRODUCTION

1.1 Basic Project Information

1.1.1 This Quarterly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2013/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities" (includes the construction works of Contract No. HY/2013/06 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System" within Contract No. HY/2013/03 works area) (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR). The Contract was awarded to China Harbour Engineering Co. Limited (construction works of Contract No. HY/2013/06 was awarded to ATAL Technologies Limited within Contract No. HY/2013/03 works area) (hereafter referred to as "the Contractor") and Materialab Consultants Limited (MCL) was appointed as the Environmental Team (ET) by the Contractor.

1.1.2 Contract No. HY/2013/03 (includes the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) is part of the "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities" (HZMB HKBCF) Project which is a "Designated Project" under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499) and for which an EIA Report (Register No. AEIAR-145/2009) was prepared and approved. The current Environmental Permit (EP) for HKBCF, namely No. EP-353/2009/K, was issued on 11 April 2016. These documents are available through the EIA Ordinance Register. Commencement of Contract No. HY/2013/03 took place on 10 April 2015 while the construction works and the EM&A programme of Contract No. HY/2013/03 commenced on 29 August 2015 (commencement of Contract No. HY/2013/06 took place on 14 August 2015 while the construction works and the EM&A programme of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area commenced on 13 September 2016). The works areas of the contract are shown in **Appendix A**.

1.1.3 This is the 7th Quarterly EM&A Report summarising the findings of EM&A activities conducted under Contract No. HY/2013/03 from 01 March 2017 to 31 May 2017 (from 01 March 2017 to 31 May 2017 for the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) (the "reporting period") and is submitted to fulfil Condition 16.4 of the Updated EM&A Manual for HKBCF.

1.2 Project Organisation

1.2.1 The organisation chart and lines of communication with respect to the on-site environmental management structure together with the contact information of the key personnel are shown in **Appendix B**. The key personnel contact names and numbers are summarized in **Table 1.1** and **Table 1.2**.

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Table 1.1 Contact Information of Key Personnel (for Contract No. HY/2013/03)

Party	Position	Contact Person	Telephone No.	Fax No.
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Mr. W. S. Ng	3958 7400	3902 8800
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Mr. Y. H. Hui	3547 2133	3465 2899
	Independent Environmental Checker (IEC)	Mr. Raymond Dai	3465 2888	3465 2899
	Environmental Site Supervisor	Mr. Ray Yan	5181 8165	3465 2899
Contractor (China Harbour Engineering Co. Ltd)	Site Agent	Mr. Paul Pui	9125 0700	2512 0427
	Environmental Officer	Mr. Marko Chan	9427 2879	2512 0427
Environmental Team (MaterialLab Consultants Limited)	Environmental Team Leader (ETL)	Mr. Arthur Cheng	3565 4115	2450 8032
24-hr Complaint Hotline	--	--	5236 7111	--

Table 1.2 Contact Information of Key Personnel (for Contract No. HY/2013/06 within Contract No. HY/2013/03 works area)

Party	Position	Contact Person	Telephone No.	Fax No.
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Mr. W. S. Ng	3958 7400	3902 8800
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Mr. Y. H. Hui	3547 2133	3465 2899
	Independent Environmental Checker (IEC)	Mr. Raymond Dai	3465 2888	3465 2899
	Environmental Site Supervisor	Mr. Ray Yan	5181 8165	3465 2899
Contractor (ATAL Technologies Limited)	Site Agent	Mr. Eric Yim	2565 3355	3162 5217
	Environmental Officer	Mr. W. Li	2565 3137	3162 5217
Environmental Team (MaterialLab Consultants Limited)	Environmental Team Leader (ETL)	Mr. Arthur Cheng	3565 4115	2450 8032
24-hr Complaint Hotline	--	--	6509 0375	--

1.3 Construction Programme

- 1.3.1 The construction programme for Contract No. HY/2013/03 (includes the construction works of HY/2013/06 within Contract No. HY/2013/03 works area) are provided in **Appendix C**.

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1.4 Construction Works undertaken during the Reporting Period

1.4.1 A summary of the construction activities undertaken during this reporting period is shown below:

For Contract No. HY/2013/03

March 2017

1. Building at Portion A1, B, G, N, J, STP & Pumping Stations;
2. Piling at Box Culvert B & Sign Gantry;
3. CUE Construction at Portion B, C & J;
4. Drainage & Sewerage Work, Water Main & Cable Duct at Portion B, H1, H2, J, P, G & A1;
5. Radiation Screen Wall at Portion B, E P, N,M,C;
6. Sign Gantry Footing at Portion B;
7. Sewerage Pumping Station, High Mast Lighting Foundation & Box Culvert C at Portion G;
8. Bridge Works at A1 to A9;
9. Site Foundation Works at Portion K;
10. Cover Walkway at Portion H1 & H2;
11. Box Culvert B at Portion N; Shuttle kiosk & Subway at Portion E; and
12. Marine sediment excavation activities from the land-based works and corresponding disposal at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee.

April 2017

1. Building at Portion A1, B, G, N, J, STP & Pumping Stations;
2. Piling at Box Culvert B & Sign Gantry;
3. CUE Construction at Portion B, C & J;
4. Drainage & Sewerage Work, Water Main & Cable Duct at Portion B, H1, H2, J, P, G & A1;
5. Radiation Screen Wall at Portion B, E P, N,M,C;
6. Sign Gantry Footing at Portion B;
7. Sewerage Pumping Station, High Mast Lighting Foundation & Box Culvert C at Portion G;
8. Bridge Works at A1 to A9;
9. Site Foundation Works at Portion K;
10. Cover Walkway at Portion H1 & H2;
11. Box Culvert B at Portion N; Shuttle kiosk & Subway at Portion E); and
12. Marine sediment excavation activities from the land-based works and corresponding disposal at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee.

May 2017

1. Building at Portion A1, B, G, N, J, STP & Pumping Stations;
2. Piling at Box Culvert B & Sign Gantry;
3. CUE Construction at Portion B, C & J;
4. Drainage & Sewerage Work, Water Main & Cable Duct at Portion B, H1, H2, J, P, G & A1;
5. Radiation Screen Wall at Portion B, E P, N,M,C;
6. Sign Gantry Footing at Portion B;

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7. Sewerage Pumping Station, High Mast Lighting Foundation & Box Culvert C at Portion G;
8. Bridge Works at A1 to A9;
9. Site Foundation Works at Portion K;
10. Cover Walkway at Portion H1 & H2;
11. Box Culvert B at Portion N; Shuttle kiosk & Subway at Portion E;
12. Marine sediment excavation activities from the land-based works and corresponding disposal at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee; and
13. Deployment, maintenance and inspection of silt curtain.

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

March 2017

1. Wiring and installation of services conduit at Building 037 and CUE works area.

April 2017

1. Conceal conduit & services conduit installation at Building 037 and CUE works area.

May 2017

1. Conduit & display panel installation at Building 037 and CUE works area.

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2. EM&A REQUIREMENTS

2.1 Summary of EM&A Requirements

2.1.1 The EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKBCF (Version 1.0). It should be noted that the air quality and noise monitoring works for the Contract are covered by Contract No. HY/2010/02 "Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works" and Contract No. HY/2011/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF". The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7 and noise monitoring at NMS2 and NMS3B, water quality monitoring at the locations shown in **Figure 3** and ecological monitoring as shown in **Figure 4** and **Figure 5** as part of EM&A programme if these monitoring stations are no longer covered under Contract Nos. HY/2010/02 and HY/2011/03. However, this is subject to ENPO's final decision on which ET should carry out the monitoring work at these stations.

The ET of the Contract or another ET of the HZMB project is required to conduct impact ecological monitoring at 24 transects as part of EM&A programme if these transects are no longer covered under Contract No. HY/2010/02. The impact ecological monitoring should adopt line-transect vessel survey method. The survey follows pre-set and fixed transect lines in the two areas defined by AFCD as: Northeast Lantau survey area and Northwest Lantau survey area. Changes of the EM&A programme were effective from 15 May 2017. **Figure 4** shows the original co-ordinates for the transect lines and layout map before the changes of the EM&A programme and **Figure 5** shows the new co-ordinates for the transect lines and layout map after the changes of the EM&A programme with effect from 15 May 2017.

2.1.2 A summary of air and noise monitoring locations are presented in **Table 2.1**. The location of air quality and noise monitoring stations are shown as in **Figure 1** and **Figure 2**, respectively.

Table 2.1 Air Quality and Noise Monitoring Locations

Environmental Monitoring	Identification No.	Location Description
Air Quality	AMS6(1)	Dragonair/CNAC (Group) Building (A80)
	AMS7(1)	Hong Kong SkyCity Marriott Hotel
Noise	NMS2(2)	Seaview Crescent
	NMS3B(2) (3)	Site Boundary of Site Office Area at WA2

Remarks:

- (1) The ET of this Contract should conduct impact air quality monitoring at the AMS listed in the table as part of EM&A programme according to latest notification from ENPO when the monitoring station(s) is/are no longer covered by another ET of the HZMB project.
- (2) The ET of this Contract should conduct impact noise monitoring at the NMS listed in the table as part of EM&A programme according to the latest notification from ENPO when the monitoring station(s) is/are no longer covered by another ET of the HZMB project.
- (3) The Action and Limit Levels for schools will be applied for this alternative monitoring location.

2.1.3 Changes on the EM&A programme were effective from 15 May 2017. A summary of the original and updated water quality monitoring stations are presented in **Table 2.2**. The location of water quality monitoring stations are shown as in **Figure 3**.

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Table 2.2 Water Quality Monitoring Stations

Station	Description	East	North
IS5	Impact Station (Close to HKBCF construction site)	811579	817106
IS(Mf)6	Impact Station (Close to HKBCF construction site)	812101	817873
IS7	Impact Station (Close to HKBCF construction site)	812244	818777
IS8	Impact Station (Close to HKBCF construction site)	814251	818412
IS(Mf)9	Impact Station (Close to HKBCF construction site)	813273	818850
IS10	Impact Station (Close to HKBCF construction site)	811489	820455
IS10(N) ⁽³⁾	Impact Station (Close to HKBCF construction site)	812569	821475
IS(Mf)11	Impact Station (Close to HKBCF construction site)	813562	820716
IS(Mf)16	Impact Station (Close to HKBCF construction site)	814328	819497
IS17	Impact Station (Close to HKBCF construction site)	814539	820391
SR3	Sensitive receivers (San Tau SSSI)	810525	816456
SR4(N)	Sensitive receivers (Tai Ho)	814705	817859
IS(Mf)11	Impact Station (Close to HKBCF construction site)	813562	820716
SR5(N) ⁽³⁾	Control Station	812569	821475
SR6	Sensitive receivers (Sha Chau and Lung Kwu Chau Marine Park)	805837	821818
SR7	Sensitive receivers (Tai Mo Do)	814293	821431
SR10A ⁽¹⁾	Sensitive receivers(Ma Wan FCZ) 1	823741	823495
SR10B(N) ⁽¹⁾	Sensitive receivers(Ma Wan FCZ) 2	823683	823187
CS(Mf)3	Control Station	809989	821117
CS(Mf)3(N) ⁽³⁾	Control Station	808814	822355
CS(Mf)5	Control Station	817990	821129
CS4	Control Station	810025	824004
CS6	Control Station	817028	823992
CSA ⁽²⁾	Control Station	818103	823064

Note:

⁽¹⁾ Additional monitoring station for Ma Wan FCZ

⁽²⁾ Additional control monitoring station for Ma Wan FCZ

⁽³⁾ CS(Mf)3(N), SR5(N) and IS10(N) are alternative WQM Stations which replaced current WQM Stations CS(Mf)3, SR5 and IS10 respectively from 15 May 2017

Remarks:

The ET of the Contract should conduct impact water quality monitoring at the WQMs listed in the table as part of EM&A programme according to latest notification from ENPO if water quality monitoring is no longer covered by another ET of the HZMB project. The ET of the Contract shall communicate and share the monitoring data to the ET(s) of the other contracts if the water quality monitoring station(s) is/are as part of EM&A programme.

2.2 Monitoring Requirements

2.2.1 The monitoring requirements, monitoring equipment, monitoring parameters, frequency and duration, monitoring methodology, monitoring schedule, meteorological information are detailed in the monthly EM&A Reports prepared for Contract Nos. HY/2010/02 and HY/2011/03.

2.3 Action and Limit Levels

2.3.1 The Action and Limit Levels for 1-hr TSP and 24-hr TSP are provided in Table 2.3 and Table 2.4 respectively.

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Table 2.3 Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AMS6	360	500
AMS7	370	

Table 2.4 Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AMS6	173	260
AMS7	183	

2.3.2 The Action and Limit Levels for construction noise are defined in **Table 2.5**.

Table 2.5 Action and Limit Level for Construction Noise

Monitoring Station	Action Level	Limit Level
For the Time Period 0700-1900 hrs. on Normal Weekdays		
NMS2	When one documented complaint is received	75.0 dB (A) Leq (30 min.)
NMS3B		70.0 dB (A) Leq (30 min.)*

Notes:

If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

* Reduce to 70 dB(A) for schools and 65 dB(A) during school examination period.

2.3.3 The Action and Limit Levels for Water Quality are provided in **Table 2.6**.

Table 2.6 Action and Limit Levels for Water Quality

Parameters	Action	Limit
DO in mg/L (Surface, Middle & Bottom)	Surface and Middle 5.0 Bottom 4.7	Surface and Middle = 4.2 (except 5 mg/L for FCZ) Bottom = 3.6
SS in mg/L (depth-averaged) at all monitoring stations and control stations	23.5 and 120% of upstream control station's SS at the same tide of the same day*	34.4 and 130% of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes*
Turbidity in NTU (depth-averaged)	27.5 and 120% of upstream control station's turbidity at the same tide of the same day*	47.0 and 130% of upstream control station's turbidity at the same tide of the same day*

* Remarks: Reference is made to EPD approval of adjustment of water quality assessment criteria issued and became effective on 18 February 2013.

- Notes:
- "depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
 - For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
 - For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
 - All the figures given in the table are used for reference only and the EPD may amend the figures whenever it is considered as necessary.
 - The 1%-ile of baseline data for dissolved oxygen (surface and middle) and dissolved oxygen (bottom) are 4.2mg/L and 3.6mg/L respectively.

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2.3.4 The Action and Limit Levels for Ecological Monitoring are provided in **Table 2.7** and **Table 2.8**.

Table 2.7 Action and Limit Levels for Ecological Monitoring - Approach to Define Action Level (AL) and Limit Level (LL)

	North Lantau Social Cluster	
	NEL	NWL
Action Level	(STG < 70% of baseline) & (ANI < 70% of baseline)	(STG < 70% of baseline) & (ANI < 70% of baseline)
Limit Level	[(STG < 40% of baseline) & (ANI < 40% of baseline)] AND [(STG < 40% of baseline) & (ANI < 40% of baseline)]	

For North Lantau Social Cluster, action level will be trigger if either NEL or NWL fall below the criteria; limit level will be triggered if both NEL and NWL fall below the criteria.

Table 2.8 Derived Value of Action Level (AL) and Limit Level (LL) for Ecological Monitoring

	North Lantau Social Cluster	
	NEL	NWL
Action Level	(STG < 4.2) & (ANI < 15.5)	(STG < 6.9) & (ANI < 31.3)
Limit Level	[(STG < 2.4) & (ANI < 8.9)] AND [(STG < 3.9) & (ANI < 17.9)]	

The ET of this Contract should conduct impact ecological monitoring as part of EM&A programme according to latest notification from ENPO when the monitoring transect(s) is/are no longer covered by another ET of the HZMB project.

2.3.5 If exceedance(s) at these transect(s) is/are recorded by the ET of the Contract or referred by the other ET under the HZMB project to the Contract, the ET of the Contract will carry out an investigation and findings will be reported in the quarterly EM&A Report.

2.4 Event and Action Plans

2.4.1 The event and action plans are provided in **Appendix D**.

2.5 Mitigation Measures

2.5.1 Environmental mitigation measures for the contract were recommended in the approved EIA Report. **Appendix E** lists the recommended mitigation measures and the implementation status.

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3. ENVIRONMENTAL MONITORING AND AUDIT

3.1 Air Quality Monitoring Results

- 3.1.1 The monitoring results for AMS6 and AMS7 are reported in the monthly EM&A Reports (for March 2017, April 2017 and May 2017) prepared for Contract Nos. HY/2011/03 and HY/2010/02 respectively.
- 3.1.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 is reported in the monthly EM&A Reports (for March 2017, April 2017 and May 2017) prepared by Contract No. HY/2011/03.
- 3.1.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

3.2 Noise Monitoring Results

- 3.2.1 The monitoring results for NMS2 and NMS3B are reported in the monthly EM&A Reports (for March 2017, April 2017 and May 2017) prepared for Contract No. HY/2010/02.
- 3.2.2 No noise exceedances were recorded at stations NMS2 and NMS3B by the ET of Contract No. HY/2010/02 during the reporting period.

3.3 Water Quality Monitoring Results

- 3.3.3 As silt curtain was installed on 11 May 2017 and therefore, monitoring result is reported from May 2017. The monitoring results for the monitoring stations shown in **Table 2.2** were reported in the monthly EM&A Report (for May 2017) prepared for Contract No. HY/2010/02. There was no Action and Limit Level exceedance recorded by the Environmental Team of Contract No. HY/2010/02 during May.

3.4 Ecology Monitoring Results

- 3.4.1 As silt curtain was installed on 11 May 2017 and therefore, monitoring result is reported from May 2017. The dolphin survey results for all transects were reported in the monthly EM&A Reports (for May 2017) prepared by Contract No. HY/2010/02. One limit level exceedance was recorded in the monitoring period (March 2017 to May 2017).
- 3.4.2 During this reporting period, silt curtain was installed by Contract No. HY/2013/03. After checking the Marine Travel Routes record provided by the Contractor, there were twenty-two and forty-four trips of barges recorded on April and May 2017 in the reporting period. All marine transportation recorded were restricted and followed the Regular Marine travel Route Plan. Training of marine travel route for marine vessels operator was given to relevant staff and all barges recorded during the reporting period were travelled in regular travel routes.
- 3.4.3 The exceedance is still under investigation by Contract No. HY/2010/02. The investigation report (including the causes of exceedance, action taken and recommendation for mitigation) for Action or Limit Level Non-compliance will be prepared by the ET of Contract No. HY/2010/02 and detailed in the quarterly EM&A Report prepared for Contract No. HY/2010/02. The implementation of Regular Marine Travel Route Plan for the above

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mentioned barges of marine transportation undertaken by Contract No. HY/2013/03 during the reporting period were checked by the ET. The Regular Marine Travel Route Plan were prepared and given to marine vessels operators to use in order to minimize the chance of vessel collision and the routes would not go through the dolphin hotspot in Brothers Islands.

3.5 Implementation of Environmental Measures

- 3.5.1 In response to the site audit findings, the Contractor carried out corrective actions. Details of site audit findings and the corrective actions during the reporting period are presented in **Appendix F**.
- 3.5.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix E**. All necessary mitigation measures at this stage of works were implemented properly.
- 3.5.3 Implementation status of Regular Marine Travel Route Plan (RMTRP) was checked by ET. Training of marine travel route for marine vessels operator was given to relevant staff and relevant records were kept properly. Marine traffic records which indicated the number of trips data for pelican barge, hopper barge, tug boat, floating concrete batching plant and derrick lighter on the implementation of RMTRP from March 2017 to May 2017 were checked by ET. Marine traffic records of March 2017, April 2017 and May 2017 were provided by Contractor to ER, IEC/ENPO for checking within the month of April 2017, May 2017 and June 2017 respectively. The implementation of marine traffic follows the Regular Marine Travel Route Plan with respect to ET's checking on the marine traffic records for the reporting period.
- 3.5.4 With respect to condition 3.26A of EP-353/2009/K approved by EPD on 11 April 2016, the numbers and operating periods of floating grout production facilities and floating concrete batching plants on-site to review on the compliance to this EP condition were checked. Under Contract No. HY/2013/03, one floating concrete batching plant was operated on-site during March 2017 and no floating concrete batching plant was operated on-site during April and May 2017.
- 3.5.5 As silt curtain was installed on 11 May 2017, Dolphin Watching Plan (DWP) should be implemented. Implementation status of DWP was checked by ET. Before the installation of silt curtain, ET conducted visual inspection of the presence of dolphins in the surrounding water. Besides, dolphin watching training was provided to the representatives of the Contractor during April 2017. The records of dolphin watching training, regular inspection of the silt curtains and visual inspection of waters surrounded by the silt curtain in May 2017 would be provided to ER, ETL, IEC/ENPO for checking within the month of June 2017.

3.6 Advice on the Solid and Liquid Waste Management Status

- 3.6.1 The Contractor of Contract No. HY/2013/03 registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 3.6.2 No extracted marine sediment was treated using cement solidification/stabilisation (Cement S/S) techniques under Contract No. HY/2013/03 during this reporting period. The marine sediment extracted from this Contract was disposed to the Marine Fill Committee (MFC) allocated disposal sites directly without treatment during this reporting period. As a practical mean, the disposal operation is managed by one contractor who is also responsible for

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applying dumping permit and its subsequent extension applications from EPD. Contract No. HY/2013/03 has been assigned to coordinate and arrange for disposal of extracted marine sediment from all three Contracts (Contract Nos. HY/2013/02, HY/2013/03 and HY/2013/04).

- 3.6.3 The barge for disposal of marine sediment was morn at the temporary loading and unloading at the east shore of the HKBCF Island, which has been being used by reclamation contractor (Contract No. HY/2010/02) for reclamation activities. In terms of safety consideration and to avoid mixing of sediment between contracts, each dumping date was allocated to one Contract. The quantity of marine sediment disposed on each date was from one Contract.
- 3.6.4 During dumping, Contractor of Contract No. HY/2013/03 is responsible for transporting the marine sediment from the site area of Contract No. HY/2013/03 to the barge. The estimated quantity of marine sediment in each truck is confirmed by Resident Site Staff of Contract Nos. HY/2013/02, HY/2013/03 and HY/2013/04. The trip tickets for transportation and disposal of marine sediment are collected and checked. Contract No. HY/2013/03 as the dumping permit holder is responsible for reporting to EPD the quantity disposed of as the condition stipulated in the dumping permit. The disposal site allocated to this Project are the Mud Pit CMP Vd of the Confined Marine Sediment Disposal Facility to the East of Sha Chau (ESC) during this reporting period.
- 3.6.5 Marine sediment extracted from bored piling from this Contract was disposed to allocated dumping site during this reporting period. The summary of marine sediment disposed during this reporting period is shown in the following table:

Table 3.1 Summary of Marine Sediment Disposed to Dumping Site

Month/Year	Quantity disposed (in'000m ³)			
	HY/2013/02	HY/2013/03	HY/2013/04	Total
March 2017	0	0	0	0
April 2017	0.624	1.288	0	1.912
May 2017	0	1.440	0	1.440
Total	0.624	2.728	0	3.352

- 3.6.6 The summary of waste flow table for Contract No. HY/2013/03 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) is detailed in **Appendix G**.
- 3.6.7 Contract No. HY/2013/03 has been assigned to arrange for delivery of surplus filling materials from Contract No. HY/2013/03 to Tuen Mun - Chek Lap Kok Link (TM-CLKL) project of HZMB by marine access from May 2017. The estimated quantity of surplus filling materials is confirmed by Resident Site Staff of Contract No. HY/2013/03. The summary of surplus filling materials delivered to TM-CLKL project up to the end of May 2017 is shown in **Table 3.2**.

Table 3.2 Summary of Surplus Filling Materials Delivered to TM-CLKL Project

Month/Year	Quantity disposed (in '000m ³)
	HY/2013/03
May 2017	12.637
Total	12.637

Note:

The disposal quantity of surplus filling materials provided by Resident Site Staff is in tonnes (for Contract No. HY/2013/03: 29,065 tonnes). In order to convert the disposal quantity from tonnes to m³, a conversion factor is used and shown as follows:

Volume (in m³) = Mass (in tonnes) / 2.3 (in tonnes/ m³)

Where 2.3 (in tonnes/ m³) is the density of surplus filling materials provided by the Contractor

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3.6.8 Contractor of Contract No. HY/2013/03's site arrangement for disposal of bentonite slurry to Tseung Kwan O Area 137 Fill Bank was checked by ET and formal consent has been obtained from Tseung Kwan O Area 137 Fill Bank for receiving used bentonite slurry generated from Contract No. HY/2013/03.

3.7 Environmental Licences and Permits

3.7.1 The valid environmental licences and permits for Contract No. HY/2013/03 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) during the reporting period are summarized in **Appendix H**. The Contractor of Contract No. HY/2013/06 was advised to register as a chemical waste producer when chemical waste is expected to generate for the foreseeable future from the operations (For Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation).

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4. SUMMARY OF EXCEEDANCES, COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTION

4.1 Summary of Exceedance of the Environmental Quality Performance Limit

- 4.1.1 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 is reported in the monthly EM&A Reports (for March, April and May 2017) prepared by Contract No. HY/2011/03.
- 4.1.2 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 4.1.3 There was no Action and Limit Level exceedance for noise recorded at station NMS2 and station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 4.1.4 As silt curtain was installed on 11 May 2017 and therefore, water monitoring result is reported from May. There was no Action and Limit Level exceedance for water quality recorded at the monitoring stations shown at **Table 2.2** by the Environmental Team of Contract No. HY/2010/02 during May.
- 4.1.5 Ecological monitoring results at all transects are reported in the EM&A report (for May 2017) prepared by Contract No. HY/2010/02.

4.2 Summary of Complaints, Notification of Summons and Successful Prosecution

- 4.2.1 There were three complaints received in relation to the environmental impact during the reporting period. The summary of environmental complaints is presented in **Table 4.1**. The details of cumulative statistics of Environmental Complaints are provided in **Appendix I**.

Table 4.1 Summary of Environmental Complaints for the Reporting Period

Log No.	Environmental Complaint Ref. No.	Date of Complaint Receipt	Description
006	ENPO-C0110	21 March 2017	Water pollution
007	ENPO-C0113	28 March 2017	Noise and water pollution
008	ENPO-C0119	31 May 2017	Air pollution

(a) 21 March 2017 (Log No. 006)

The complaint was received by EPD from a member of the public on 21 March 2017. The complainant complained about the construction site at the east of HZMB artificial island in Tung Chung which was belonged to Dragages Hong Kong. The construction site discharged waste water into open water frequently in the evening causing ecological pollution.

Due to lack of information, The ET of Contract No. HY/2013/03 (including Contract No. HY/2013/06 within Contract No. HY/2013/03) cannot conclude that the captioned complaint is related to the construction activities of our contract. Nevertheless, the Contractor had been reminded to comply with the requirements stipulated in the Environmental Mitigation Implementation Schedule (EMIS) of the EM&A Manual, in particular:

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- Water Quality

- W2: Land Work

- Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters

(b) 28 March 2017 (Log No. 007)

The complaint was received by EPD from a member of the public who lived in Century Link on 27 March 2017. The complainant complained that starting from around 10pm to midnight on 27 March 2017, there were loud noise outside. By observation, the noise should come from the construction of artificial island of HZMB. Besides, in the morning on 28 March 2017, water pollution was observed in the sea outside which should result from HZMB project.

After investigation, The ET of Contract No. HY/2013/03 (including Contract No. HY/2013/06 within Contract No. HY/2013/03) concluded that the captioned complaint is not related to the construction activities of our contract. Nevertheless, the Contractor had been reminded to comply with the requirements stipulated in the Environmental Mitigation Implementation Schedule (EMIS) of the EM&A Manual, in particular:

Construction Noise (air borne):

N1: Use of good site practices to limit noise emissions: machines and plants (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; and
N5: sequencing operation of construction plants where practicable.

Water Quality

W1:

- Loading of barges and hoppers shall be controlled to prevent splashing of dredged material to the surrounding water. Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation;
- Any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes;
- The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site.

W2: Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters.

(c) 31 May 2017 (Log No. 008)

The complaint was received by EPD from a member of the public on 31 May 2017. The complainant complained that as there was no watering for dust suppression on the road next to Building 044 and 045 on the artificial island of HZMB, a lot of dust was raised when vehicles passed by causing serious nuisance.

After investigation, The ET of Contract No. HY/2013/03 (including Contract No. HY/2013/06 within Contract No. HY/2013/03) concluded that the captioned complaint is not related to the construction activities of Contract No. HY/2013/03. Nevertheless, the Contractor had been reminded to discuss and reach a written agreement with the Contractor of Buildings 044 and

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045 about the responsibility of maintaining the road next to Buildings 044 and 045. The Contractor had also been reminded to fulfil the conditions set out in the EP, in particular:

- Condition 3.23:

The Permit Holder shall undertake watering at least 8 times per day on all exposed soil within the Project site and associated work areas throughout the construction phase.

The Contractor had also been reminded to comply with the requirements stipulated in the Environmental Mitigation Implementation Schedule (EMIS) of the EM&A Manual, in particular:

- Air Quality:

A3: The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase. The complaint was still under investigation. Details will be reported in the coming reporting period.

4.2.2 No notification of summons or prosecutions was received during the reporting period.

4.2.3 Statistics on notifications of summons and successful prosecutions are summarized in **Appendix I**.

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5. COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

5.1 Comments

- 5.1.1 According to the environmental site inspections undertaken during the reporting period, the following recommendations were provided:

For Contract No. HY/2013/03

1. CHEC was reminded to remove stagnant water accumulated on site;
2. CHEC was reminded to remove general refuse accumulated on site;
3. CHEC was reminded to provide drip trays for chemical containers;
4. CHEC was reminded to increase watering for dust suppression on site;
5. CHEC was reminded to provide drip trays for generators and air compressors;
6. CHEC was reminded to remove food waste on site;
7. CHEC was reminded to improve housekeeping.

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

- No recommendation.

- 5.1.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix E**. All necessary mitigation measures at this stage of works were implemented properly.

5.2 Recommendations

- 5.2.1 With implementation of the recommended environmental mitigation measures, the contract's environmental impacts were considered environmentally acceptable. The weekly environmental site inspections ensured that all the environmental mitigation measures recommended were effectively implemented.

- 5.2.2 The recommended environmental mitigation measures, as included in the EM&A programme, effectively minimize the potential environmental impacts from the contract. Also, the EM&A programme effectively monitored the environmental impacts from the construction activities and ensure the proper implementation of mitigation measures. No particular recommendation was advised for the improvement of the programme.

5.3 Conclusions

- 5.3.1 Commencement of Contract No. HY/2013/03 took place on 10 April 2015 and the construction works of Contract No. HY/2013/03 commenced on 29 August 2015 (commencement of Contract No. HY/2013/06 took place on 14 August 2015 and the construction works of Contract No. HY/2013/06 commenced on 13 September 2016 within Contract No. HY/2013/03 works area). This is the 7th Quarterly EM&A Report summarising the findings of EM&A activities conducted under Contract No. HY/2013/03 from 01 March 2017 to 30 May 2017 (includes the findings of EM&A activities conducted under Contract No. HY/2013/06 within Contract No. HY/2013/03 works area from 01 March 2017 to 30 May 2017).

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- 5.3.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A Reports (for March, April and May 2017) prepared by Contract No. HY/2011/03.
- 5.3.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 5.3.4 There was no Action and Limit Level exceedance for noise recorded at station NMS2 and station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 5.3.5 As silt curtain was installed on 11 May 2017 and therefore, water monitoring result is reported from May. There was no Action and Limit Level exceedance for water quality recorded at the monitoring stations shown at **Table 2.2** by the Environmental Team of Contract No. HY/2010/02 during May.
- 5.3.6 Ecological monitoring results at all transects are reported in the EM&A report prepared by Contract No. HY/2010/02.
- 5.3.7 Environmental site inspection was carried out on 2, 9, 16, 24 and 30 March 2017, 5, 12, 20, and 28 April 2017 and 5, 11, 18 and 26 May 2017 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area). Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.
- 5.3.8 There were three complaints received in relation to the environmental impact during the reporting period. After investigation, one complaint cannot be concluded that the captioned complaint was related to Contract No. HY/2013/03 due to lack of information. The second and third complaints were not related to Contract No. HY/2013/03.
- 5.3.9 There were no notifications of summons or prosecutions received during the reporting period.

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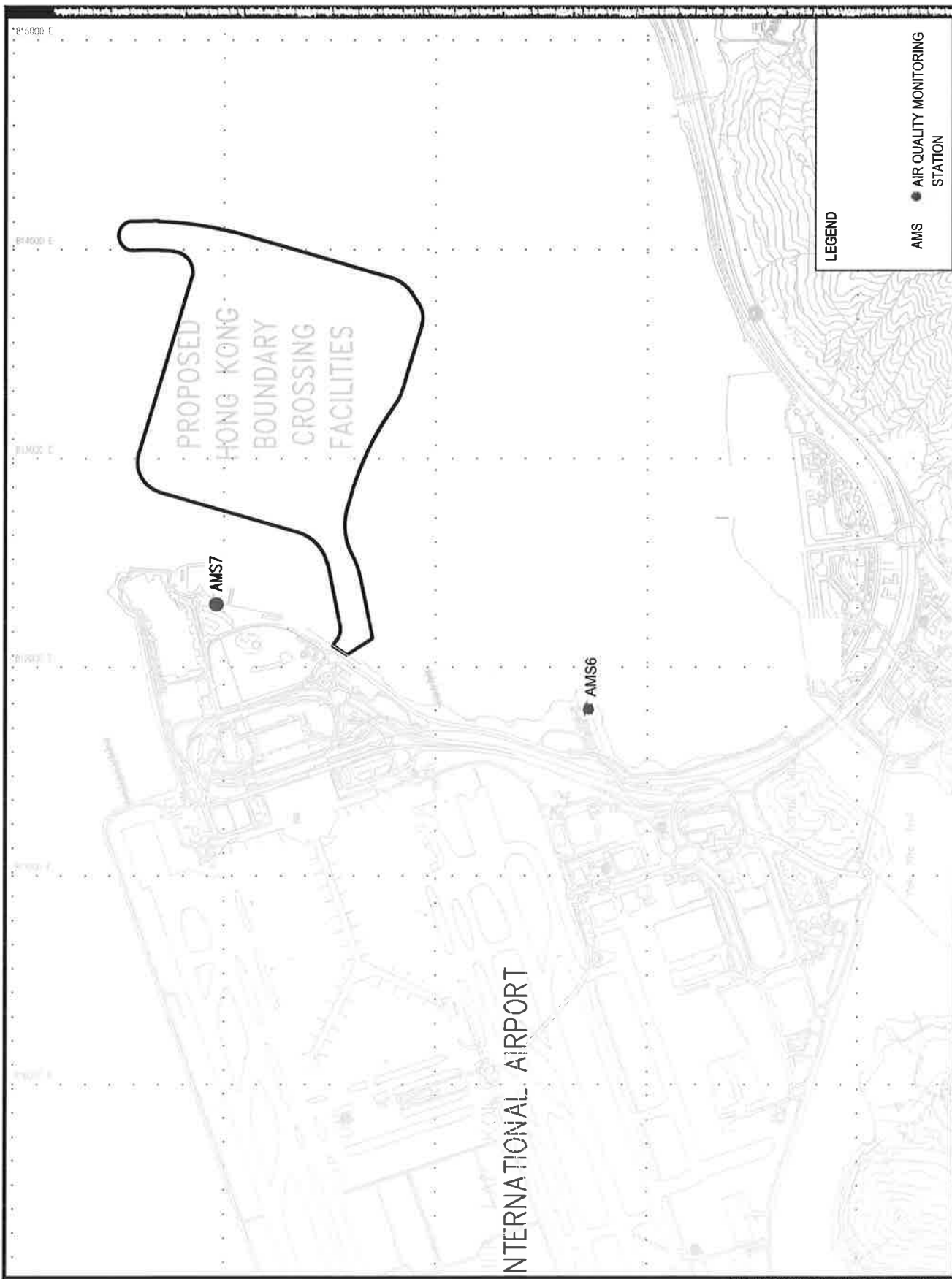
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Figure 1

Air Quality Monitoring Stations



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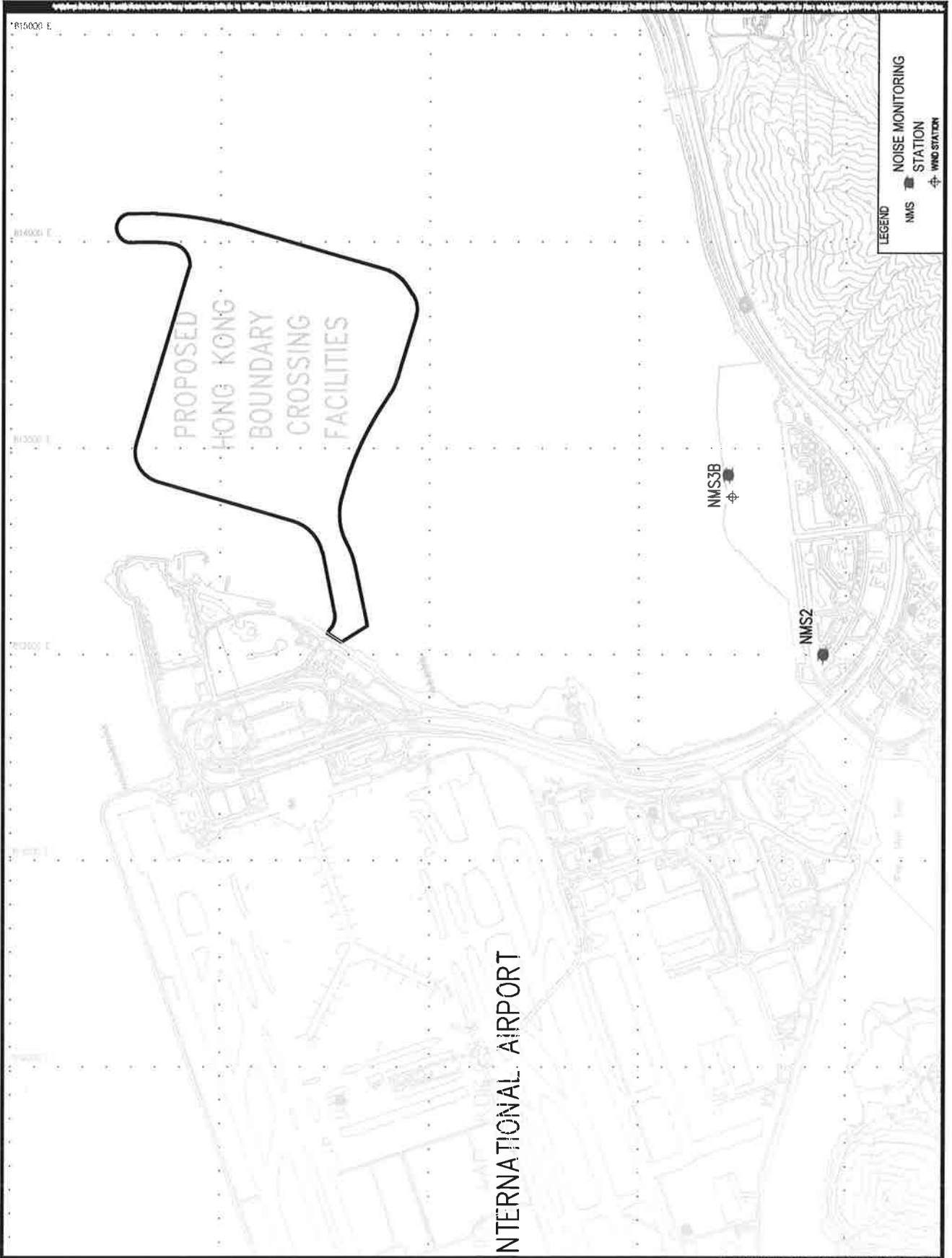
Tel : (852)-24508238
Fax : (852)-24508032
Email : mcl@fugro.com

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Report No.: 0165/15/ED/0820

Figure 2

Noise Monitoring Stations



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Profit Industrial Building,
1-15 Kwai Fung Crescent, Kwai Fong,
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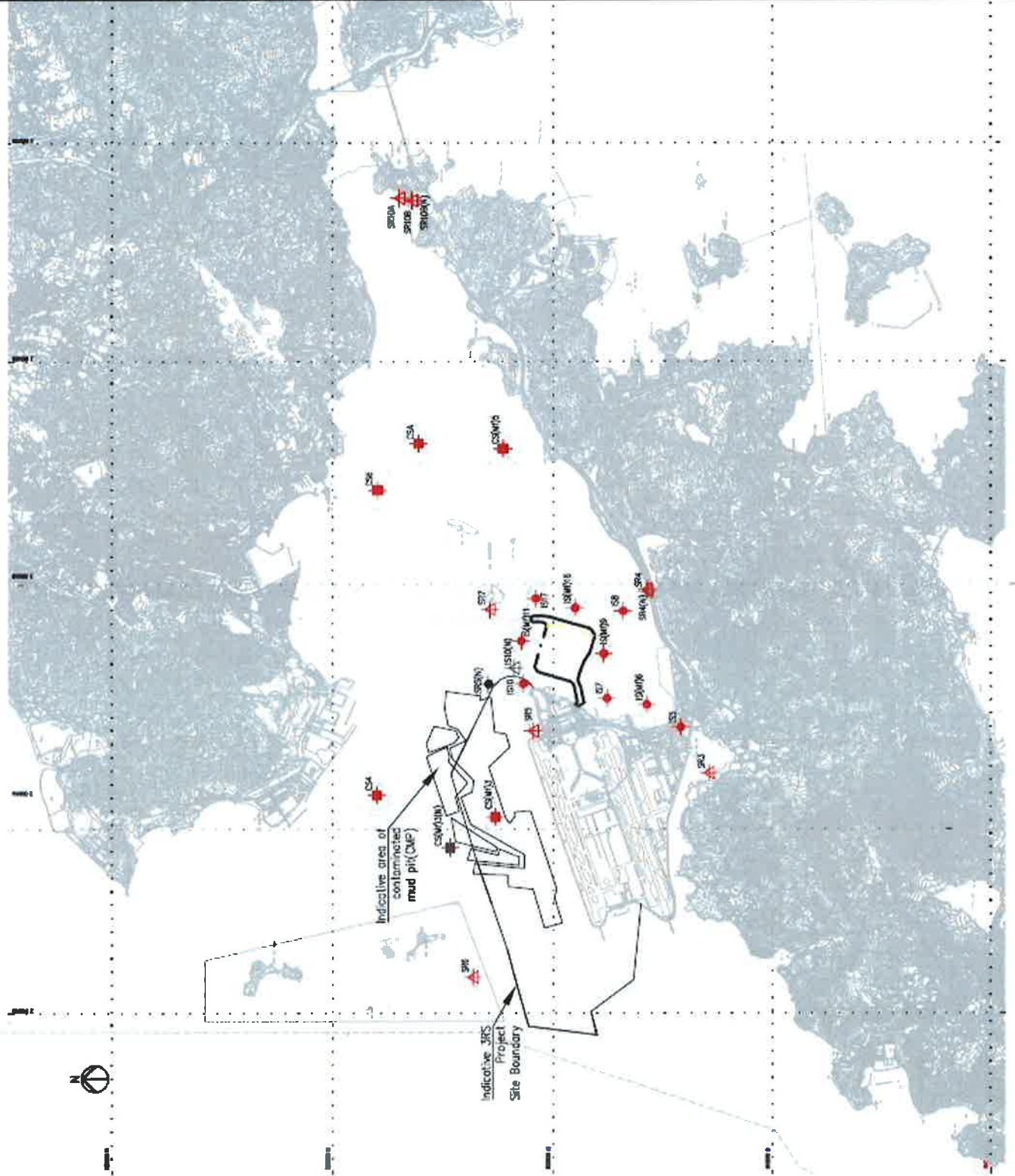
Figure 3

Water Quality Monitoring Stations

- LEGEND**
- IS IMPACT STATIONS
 - CS CONTROL / FAR FIELD STATIONS
 - SR SENSITIVE RECEIVER STATIONS
 - IS IMPACT STATIONS (RELOCATED)
 - SR SENSITIVE RECEIVER STATIONS (RELOCATED)
 - CS CONTROL / FAR FIELD STATIONS (RELOCATED)

SETTING OUT SCHEDULE

MONITORING STATIONS	CO-ORDINATES	
	EASTING	NORTHING
IS3	011579	017006
IS(M)6	002100	017673
IS7	012204	018777
IS8	014251	018412
IS(M)9	013273	018650
SR2(M)	012550	024175
IS(M)11	013382	020718
IS(M)16	014320	019497
IS17	014338	020381
SR3	010025	016406
SR4(M)	014705	017658
IS10(M)	012842	020861
SR6	015037	027018
SR7	014283	021431
SR10A	003741	023465
SR10(B)	023583	023307
CS(M)12(M)	008614	023305
CS(M)13	017950	021129
CS4	010025	024004
CS9	017020	023902
CSA	010103	023064
IS10	002537	020570
SR5	011400	020465
CS(M)13	000000	024117



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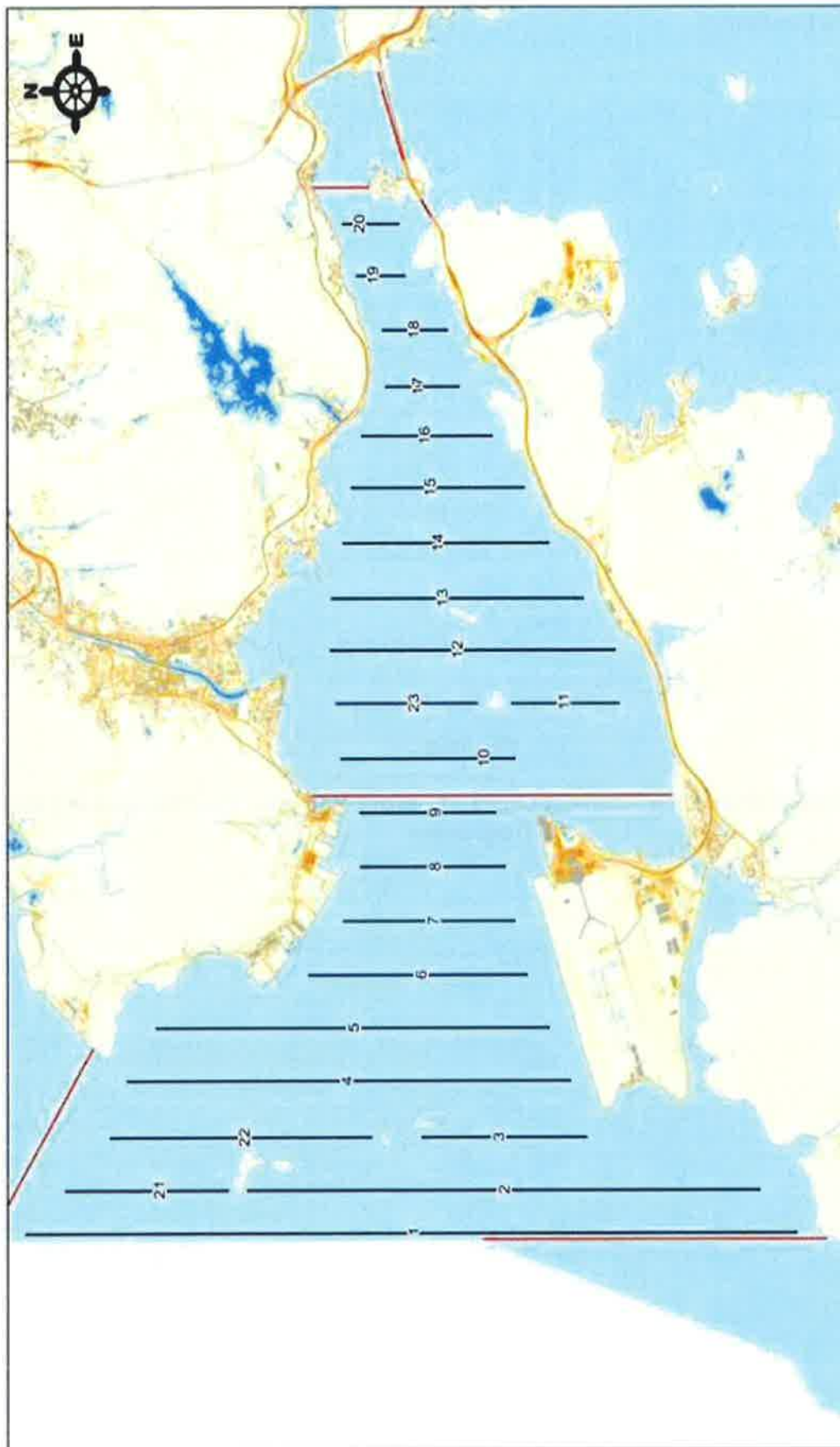
Tel : (852)-24508238
Fax : (852)-24508032
Email : mcl@fugro.com

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Figure 4

Original Ecological Monitoring Transect Line and Layout Map before the Changes of EM&A Programme



Remarks:

*Transect 10 is now 3.6km in length due to the HKBCF construction site.

^Coordinates for transect lines 1, 2, 7, 8, 9 and 11 have been updated in respect to the Proposal for Alteration of Transect Line for Dolphin Monitoring approved by EPD on 19 August 2015. The total transect length for both NEL and NWL combined is 198km.

Dolphin Monitoring Transect Line and Layout Map

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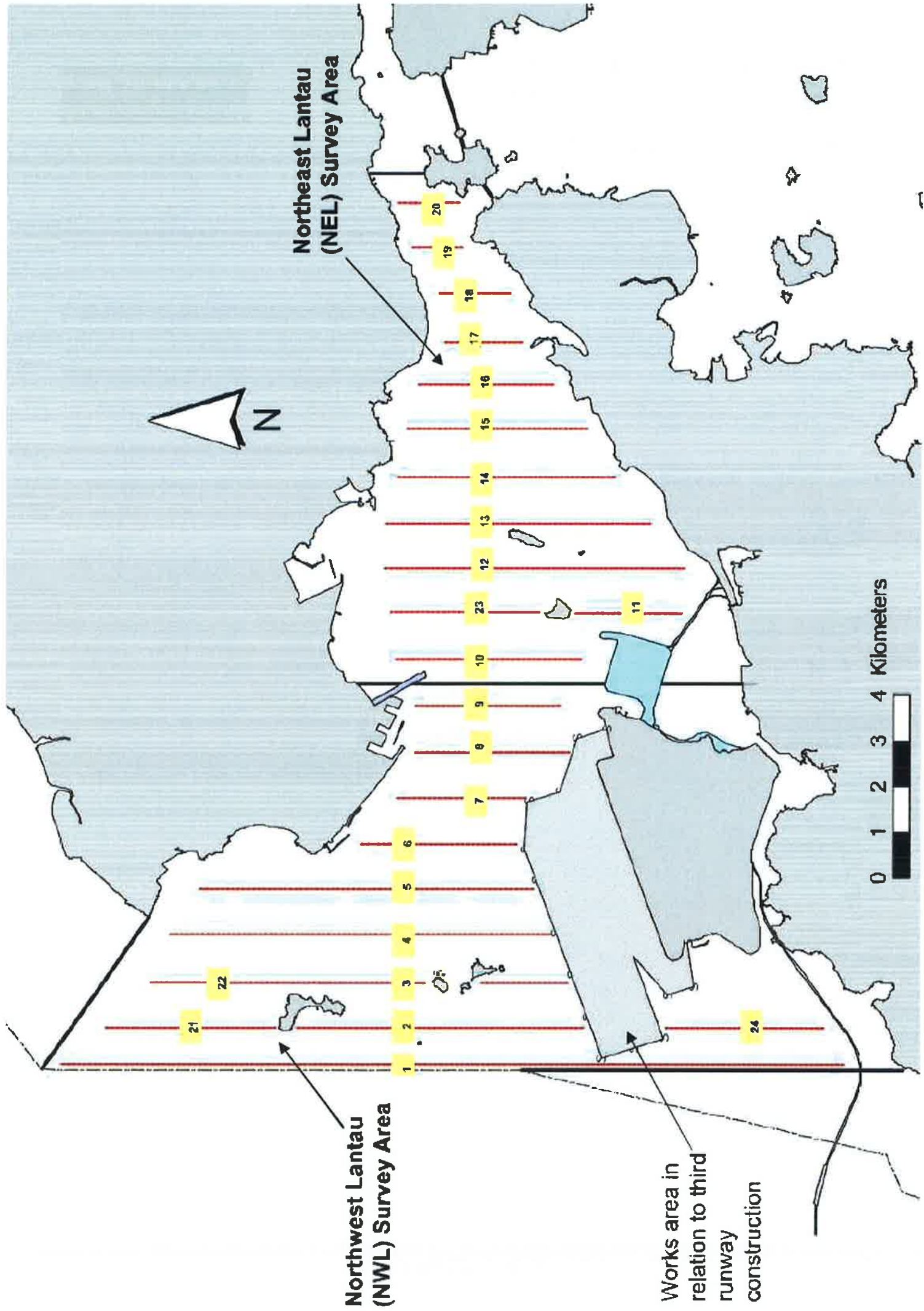
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Figure 5

New Ecological Monitoring Transect Line and Layout Map after the Changes of EM&A Programme



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Hong Kong.

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Fax : (852)-24508032
Email : mcl@fugro.com

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Report No.: 0165/15/ED/0820

Appendix A

Location of Works Areas

NOTES:

1. COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
2. DIMENSIONS ARE IN MILLIMETER AND CHANGE ARE IN METERS UNLESS OTHERWISE SHOWN.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NOS. 60191048/C3/000/1001 TO 1005.

LEGEND:

- [---] SITE BOUNDARY
- [Hatched Box] WORKS AREA

TEMPERATURE DRAWING

NO.	REVISION	DATE	BY	CHECKED BY	SCALE	NO.	REVISION	DATE	BY	CHECKED BY

MTR RAILWAYS DEPARTMENT
 香港鐵路有限公司
 HONG KONG RAILWAYS CORPORATION
 HONG KONG BOUNDARY CROSSING FACILITIES
 - VEHICLE CLEARANCE PLAZA AND
 ADJUTANT BUILDINGS AND FACILITIES

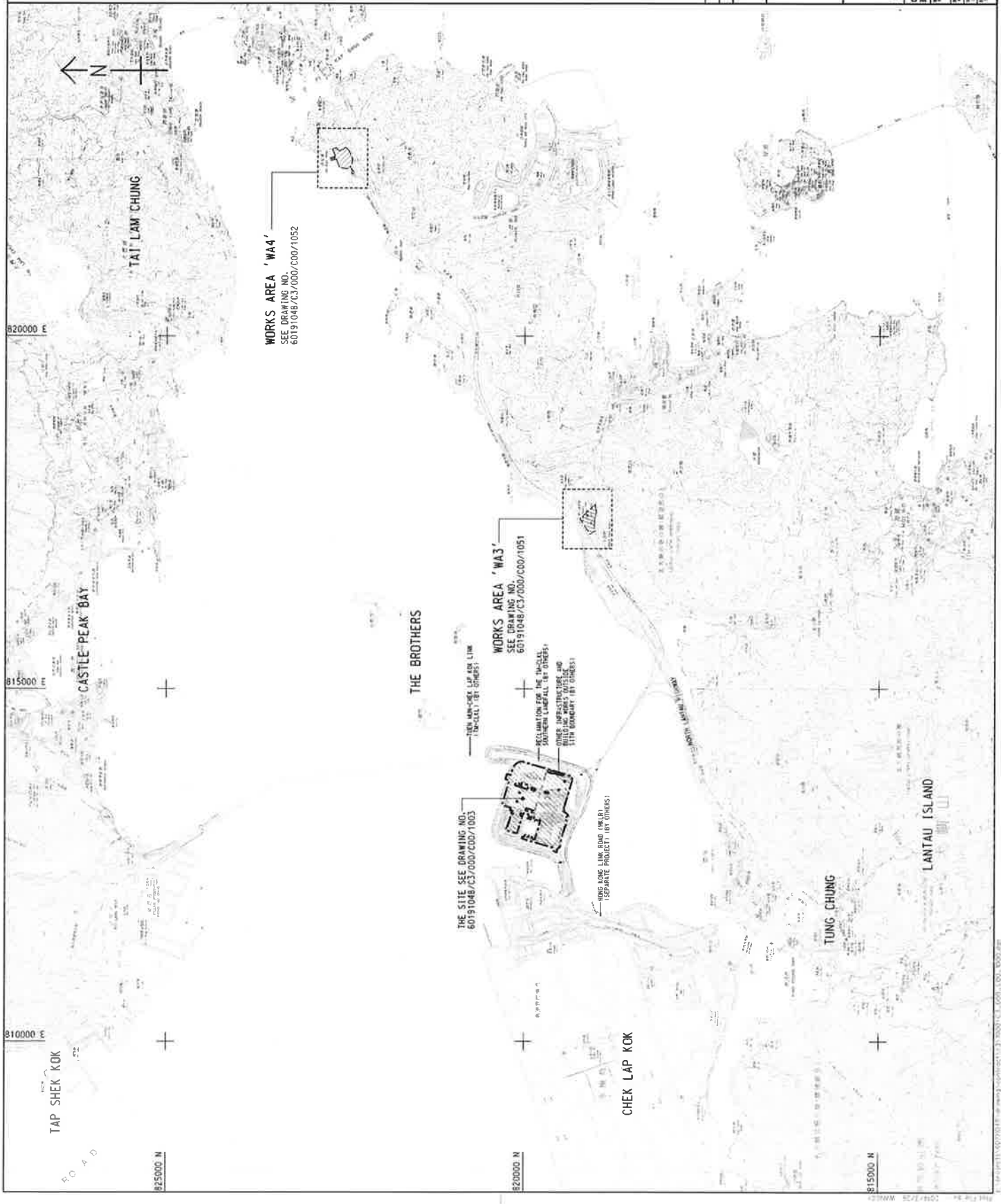
SITE LOCATION PLAN

AECOM + **Aedas**
 Rogers Stirk Harbour + Partners
 BIRD HAPPOLD ATRINS ADI

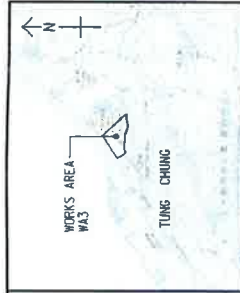
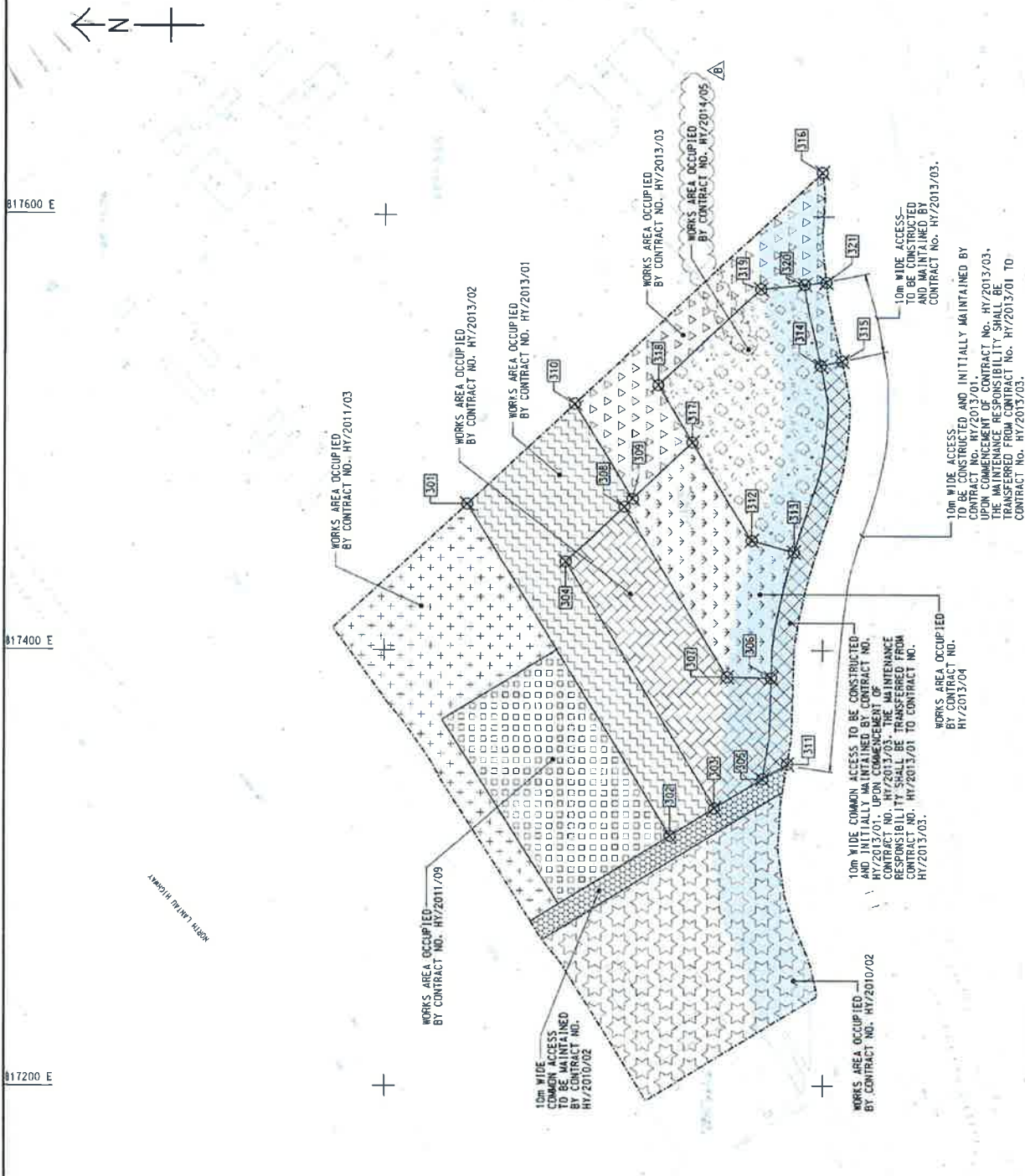
DRAWING NO. 60191048/C3/000/C00/1000

DATE	1/11/2000
SCALE	AS SHOWN
PROJECT	HONG KONG BOUNDARY CROSSING FACILITIES
SHEET NO.	1000
TOTAL SHEETS	1005

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SETTING OUT POINT		
POINT	EASTING	NORTHING
300	817467.265	819162.683
302	817314.741	819653.828
303	817322.298	819658.206
304	817466.808	819117.811
305	817346.325	819031.314
306	817391.350	819223.403
307	817307.661	819642.336
308	817465.133	819061.047
309	817465.783	819071.181
310	817513.449	819113.704
311	817247.717	819518.082
312	817465.595	819052.307
313	817465.565	819033.157
314	817511.154	819001.665
315	817511.345	818991.206
316	817522.249	819000.420
317	817465.827	819054.596
318	817522.110	819025.388
319	817544.494	819034.472
320	817544.507	819004.526
321	817540.511	819194.621



LOCATION PLAN
SCALE 1 : 25000

NOTES:

- COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
- DIMENSIONS ARE IN MILLIMETER AND CHAINAGE ARE IN METRES UNLESS OTHERWISE SHOWN.

LEGEND:

WORKS AREA BOUNDARY

- PORTION 3-1
- PORTION 3-2
- PORTION 3-3
- PORTION 3-4
- PORTION 3-5
- PORTION 3-6
- PORTION 3-7
- PORTION 3-8
- PORTION 3-9
- PORTION 3-10

NON-BUILDING AREA (REAR WHEELS)

FOR CONSTRUCTION

C	WORKING DRAWING	DATE: 14 MAR 13
B	TENDER ADDENDUM NO. 2	DATE: 21 MAR 14
A	TENDER ADDENDUM NO. 1	DATE: 21 APR 14
-	TENDER DRAWING	DATE: 22 APR 14
1	WORKING DRAWING	DATE: 22 APR 14
2	WORKING DRAWING	DATE: 22 APR 14

HA HONG KONG AIRPORT AUTHORITY
 HONG KONG AIRPORT AUTHORITY
 HONG KONG AIRPORT
 AIRPORT BUILDINGS AND FACILITIES

WORKS AREA WA3

AECOM + **Aedas**
 Rogers Sivik Harbour + Partners
 BURO HAPPOLD ATYING ADI +

DRGNO 60191048/C3/000/C00/1051C

DATE: 14 MAR 13
 SCALE: 1:25000
 SHEET NO: 1/1
 PROJECT NO: HY/2013/03
 DRAWING TITLE: WORKING DRAWING
 DRAWING NO: 60191048/C3/000/C00/1051C

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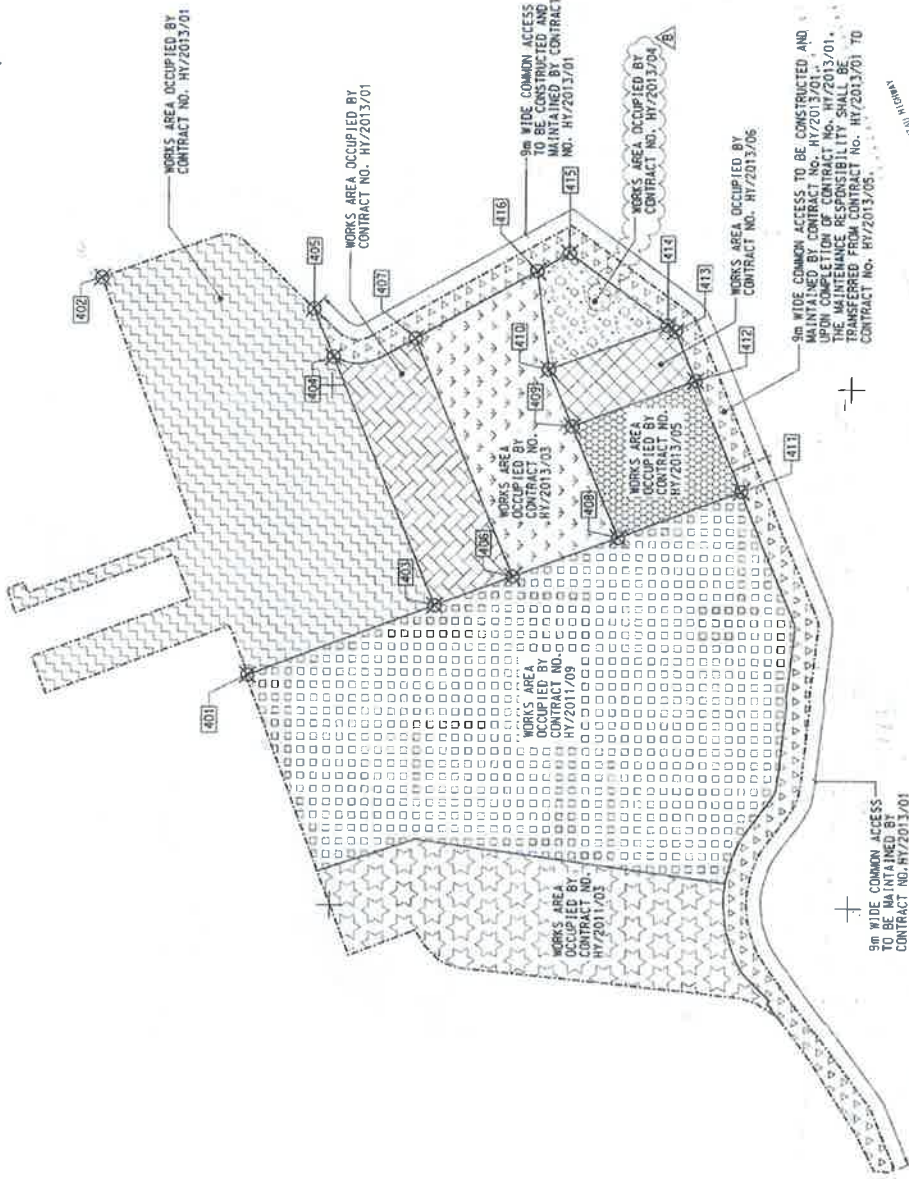
POINT	Easting	NORTHING
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403	822515.608	822558.848
404	822510.940	822593.842
405	822628.428	822601.325
406	822526.888	822528.813
407	822616.348	822567.950
408	822542.232	822488.581
409	822584.983	822502.432
410	822606.444	822516.943
411	822620.728	822481.956
412	822602.849	822469.010
413	822621.914	822481.828
414	822624.120	822470.938
415	822601.725	822508.855
416	822644.258	822321.192

822600 N

822400 N

822600 E

822400 E



LOCATION PLAN
SCALE 1:125000

NOTES:
1. COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
2. DIMENSIONS ARE IN MILLIMETER AND DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LEGEND:

	WORKS AREA BOUNDARY
	PORTION 4.1
	PORTION 4.2
	PORTION 4.3
	PORTION 4.4
	PORTION 4.5
	PORTION 4.6
	PORTION 4.7
	PORTION 4.8
	PORTION 4.9

FOR CONSTRUCTION

C	WORKING DRAWING	2013/01	HY/13
B	TENDER ADDENDUM NO. 2	2013/01	HY/14
A	TENDER ADDENDUM NO. 1	2013/01	HY/14
-	TENDER DRAWING	2013/01	HY/14
-		2013/01	HY/14
-		2013/01	HY/14
-		2013/01	HY/14
-		2013/01	HY/14

HAAS HOUMATS DEPARTMENT
HONG KONG SPECIAL ADMINISTRATIVE REGION
HONG KONG POLICE FORCE
POLICE HEADQUARTERS
POLICE HEADQUARTERS BUILDINGS AND FACILITIES

WORKS AREA WA4

AECOM
Rogers Stirk Harbour + Partners
BUNO HANPHOLD
ATKINS
ADI

PROJ. NO. 60191048/C3/000/C00/1052C
DRAWING NO. HY/2013/01
SCALE: 1:1000
DATE: 11/11/2013
DRAWN BY: [Name]
CHECKED BY: [Name]
APPROVED BY: [Name]

WORKING DRAWING
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Report No.: 0165/15/ED/0820

Appendix B

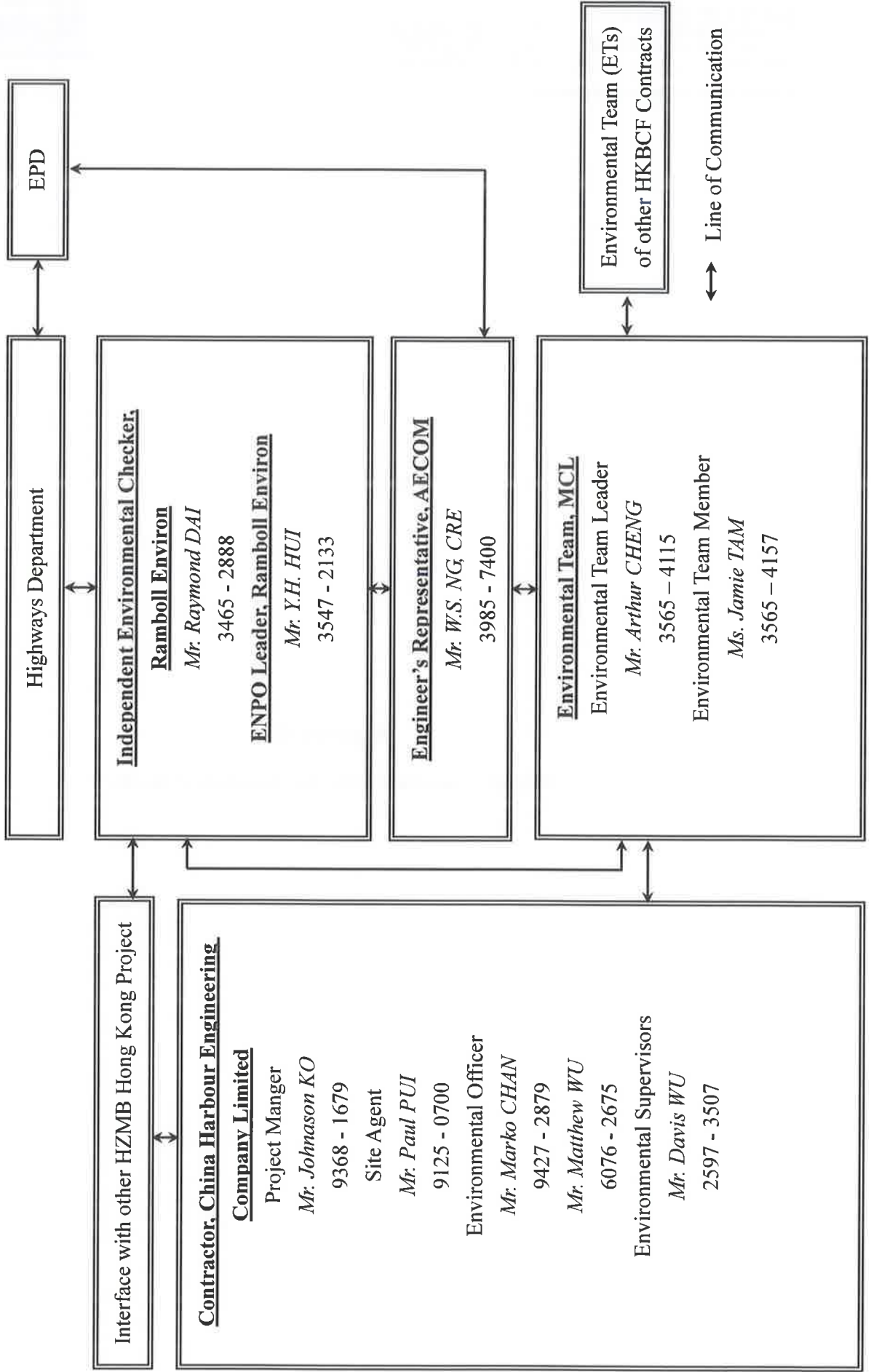
Project Organization for Environmental Works



CHINA HARBOUR ENGINEERING COMPANY LIMITED

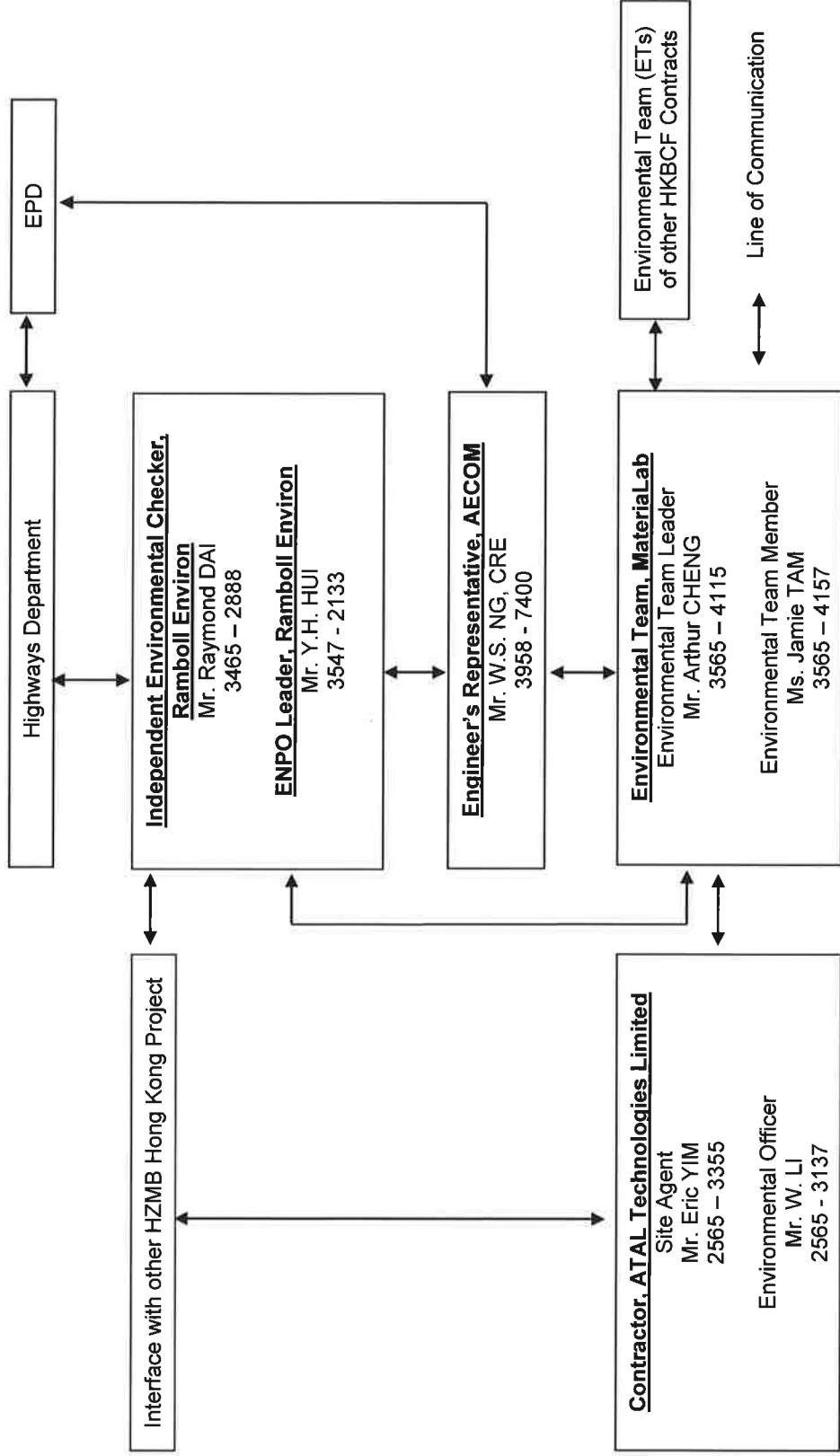
Contract No. HY/2013/03 Hong Kong-Zhuhai-Macao Bridge, Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Projects Organization for Environmental Works



Contract No. HY/2013/06 (within Contract No. HY/2013/03 works area)
 Hong Kong-Zhuhai-Macao Bridge, Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System

Projects Organization for Environmental Works



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Report No.: 0165/15/ED/0820

Appendix C

Construction Programme

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	2017	Mar	Apr	May	Jun	Jul
A1020	KD2 Achievement of Stage 2 of the Works (460 days; 12 Jul. '16)						
A1070	KD7 Achievement of Stage 6 of the Works (500.5 days; 22 Aug. '16 EOT 1)						
A1080	KD8 Achievement of Stage 7 of the Works (520 days; 10 Sep. '16)						
Site Access & Possession							
Possession of Portion of Site							
A0040	Possession of Portion C (<=100 days)						
A0070	Possession of Portion F (<=220 days)						
A0110	Possession of Portion J (<=320 days)						
A0150	Possession of Portion N (<=345 days)						
A0160	Possession of Portion P (<=502 days)						
A0170	Possession of Portion Q (<=500 days)						
A0180	Possession of Portion R (<=610 days)						
Access to Locations of the Site							
A0210	Contract Date for Access to Location 1.1 (490 days)						
A0230	Contract Date for Access to Location 1.3 (488 days)						
A0240	Contract Date for Access to Location 1.4 (488 days)						
A0280	Contract Date for Access to Location 1.7A (610 days)						
A0290	Contract Date for Access to Location 1.7B (610 days)						
A0300	Contract Date for Access to Location 1.7C (610 days)						
A0310	Contract Date for Access to Location 1.8 PCB (Basement level up to ground floor slab) (395 days)						
A0330	Contract Date for Access to External Area for Contract HY/2013/01 for ELV System Installation (570 days)						
A0340	Contract Date for Access to External Area for Contract HY/2013/02 for ELV System Installation (560 days)						
A0350	Contract Date for Access to External Area for Contract HY/2013/04 ELV System Installation (560 days)						
PORTION A1							
Portion A1 Structures							
Bridge A9							
Pier & Abutment							
SA9330	Pier P903						
SA9340	Pier P902						
SA9350	Abutment A901						
Structure Deck							
SA9410	Deck on A905, P904 + Stressing						
SA9415	Falsework for Deck P904 - P903						
SA9420	Deck on P904, P903 + Stressing						
SA9430	Falsework for Deck P903 - P902						
SA9440	Deck on P903 & P902 + Stressing						
SA9450	Falsework for Deck P902 - A901						
SA9460	Deck on P902 & A901 + Stressing						
Retaining Wall WB-1							
SW8110	Construction of Retaining Wall WB-1 (U-shape, 4 bays)						
SW8120	Backfilling WB-1						
SW8130	Parapet WB-1 (16 pour) & E&M Works						
Retaining Wall WB-2							

03-Apr-17

◆ KD7 Achievement of Stage 6 of the Works (500.5 days; 22 Aug. '16 EOT 1)
 ◆ KD8 Achievement of Stage 7 of the Works (520 days; 10 Sep. '16)
 ◆ KD2 Achievement of Stage 2 of the Works (460 days; 12 Jul. '16)

◆ Possession of Portion C (<=100 days)
 ◆ Possession of Portion F (<=220 days)
 ◆ Possession of Portion J (<=320 days)
 ◆ Possession of Portion N (<=345 days)
 ◆ Possession of Portion P (<=502 days)
 ◆ Possession of Portion Q (<=500 days)
 ◆ Possession of Portion R (<=610 days)

◆ Contract Date for Access to Location 1.1 (490 days)
 ◆ Contract Date for Access to Location 1.3 (488 days)
 ◆ Contract Date for Access to Location 1.4 (488 days)
 ◆ Contract Date for Access to Location 1.7A (610 days)
 ◆ Contract Date for Access to Location 1.7B (610 days)
 ◆ Contract Date for Access to Location 1.7C (610 days)
 ◆ Contract Date for Access to Location 1.8 PCB (Basement level up to ground floor slab) (395 days)
 ◆ Contract Date for Access to External Area for Contract HY/2013/01 for ELV System Installation (570 days)
 ◆ Contract Date for Access to External Area for Contract HY/2013/02 for ELV System Installation (560 days)
 ◆ Contract Date for Access to External Area for Contract HY/2013/04 ELV System Installation (560 days)

Date	Revision	Checked	Approved
01-Feb-17	3MRP updated as of 31 Jan. 2017	ZJ	
28-Feb-17	3MRP updated as of 28 Feb. 2017	ZJ	
31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	

THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

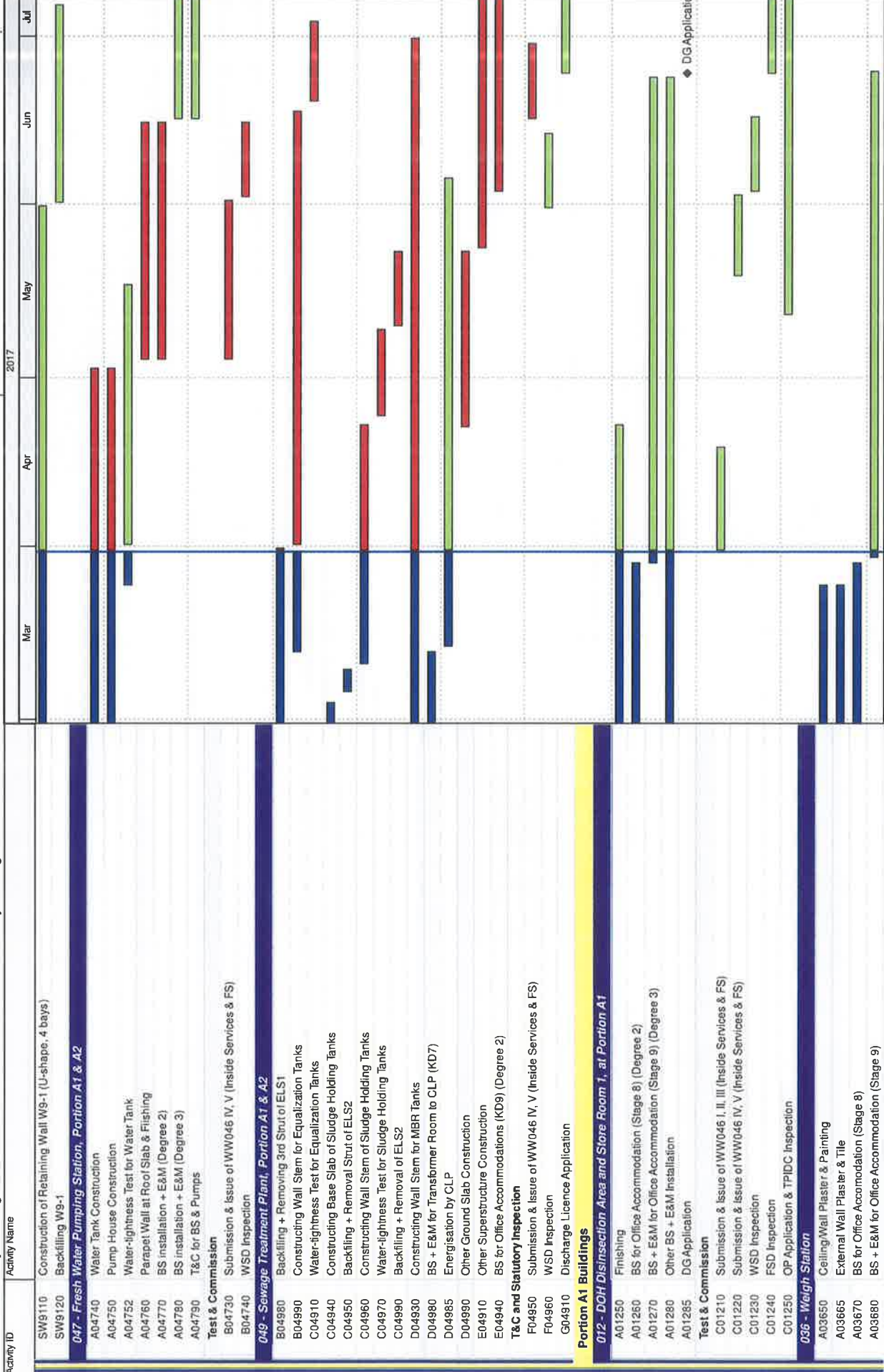
Page 1 of 21

Contract No.: HY/2013/03

Actual Work
 Remaining Work
 Critical
 Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

03-Apr-17



Date	Revision	Checked	Approved
01-Feb-17	3MRP updated as of 31 Jan. 2017	ZJ	
28-Feb-17	3MRP updated as of 28 Feb. 2017	ZJ	
31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	

**THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

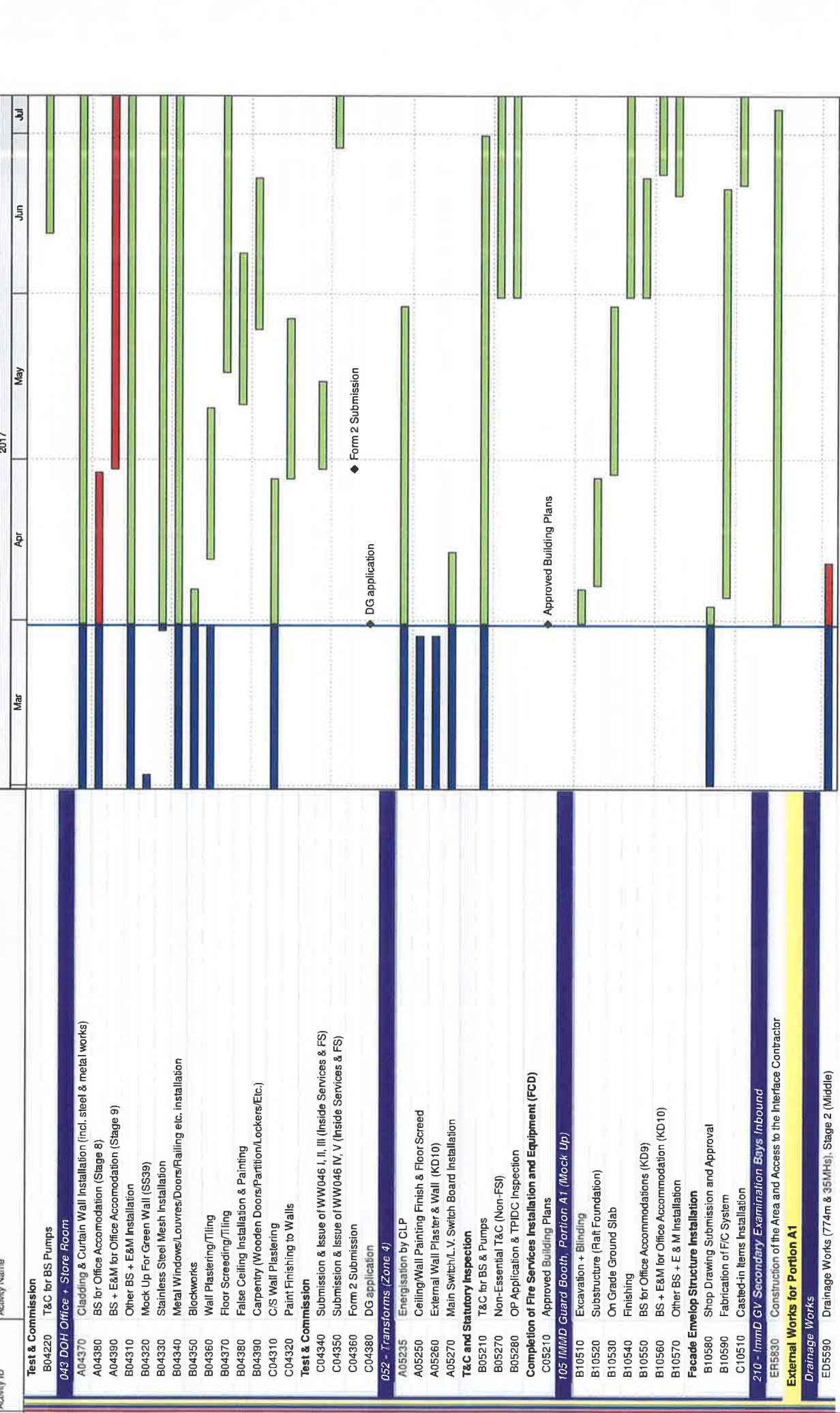
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		Mar	Apr	May	Jun	Jul	
A03690	Other BS + E&M Installation						
B03610	T&C for BS & Pumps						
Test & Commission							
B03630	Submission & Issue of WW046 IV, V (Inside Services & FS)						
B03640	Form 314 & 501 submission						◆ Form 314 & 501 submission
B03650	WSD Inspection						
B03660	FSD Inspection						
B03670	BEEC Stage II & Accessor Certification Submission						
B03680	OP Application & TPIDC Inspection						
037 C&E D Tower Cum Inbound Cargo Examination Building (Portion A1 & B)							
A03740	Steel Frame Structure Installation						
A03742C	Mock-up Sample for Mesh Screen Wall (SS41) & Balustrade						
A03744	Curtain Wall/Metal Roof/Aluminium Cladding Installation						
A03748	Wall/Ceiling Plastering/Tiling						
A03752	Floor Screed/Tiling						
A03756	Window/Door Frame Installation						
A03758	Paint Finish						
A03760	BS + E&M for AVCSS Cabling (KD18A)						
A03770	BS + E&M for AVCSS Cabling (KD18B)						
A03780	BS for Office Accommodation (KD9)						
A03785	BS for Office Accommodation (KD10)						
A03790	Other BS + E&M Installation						
Test & Commission							
B03730	Submission & Issue of WW046 IV, V (Inside Services & FS)						
B03740	Form LE5 Submission to EMSD						◆ Form LE5 Submission to EMSD
B03760	Lift Inspection by EMSD						
B03770	WSD Inspection						
B03790	Beam Plus Monthly Submission & Issue						
041 Fire Station Cum Ambulance Depot							
A04126	Cladding & Curtain Wall Installation (incl. steel & metal works)						
A04132	Blockworks						
A04133	Wall Plastering/Wall Tiling						
A04134	Floor Screeding/Tiling/Myl Tiles						
A04135	Ceiling/Wall Painting						
A04137	False Ceiling Installation						
A04140	BS for Office Accommodation (Stage 8)						
A04150	BS + E&M for Office Accommodation (Stage 9)						
A04160	Other BS + E&M Installation						
A04170	External Finishing						
A04180	C/S Plastering/Tiling						
Test & Commission							
B04110	T&C for BS & Pumps						
B04120	Submission & Issue of WW046 I, II, III (Inside services & FS)						
B04150	Form LE5 Submission to EMSD						◆ Form LE5 Submission to EMSD
C04130	Beam Plus Monthly Submission & Issue						
042 Drift Tower							
A04260	Finishing						
A04270	BS for Office Accommodation (Stage 8)						
A04280	BS + E&M for Office Accommodation (Stage 9)						
A04290	Other BS + E&M Installation						

THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

Date	Revision	Checked	Approved
01-Feb-17	3MRP updated as of 31 Jan. 2017	ZJ	
28-Feb-17	3MRP updated as of 28 Feb. 2017	ZJ	
31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities



THREE MONTH ROLLING PROGRAMME

VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

Page 4 of 21

Date	Revision	Checked	Approved
01-Feb-17	3MRP updated as of 31-Jan-2017	ZJ	
28-Feb-17	3MRP updated as of 28-Feb-2017	ZJ	
31-Mar-17	3MRP updated as of 31-Mar-2017	ZJ	

█ Actual Work
█ Remaining Work
█ Critical
◆ Milestone

Contract No.: HY2013/03

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity Name 2017 03-Apr-17

Activity ID	Activity Name	Mar	Apr	May	Jun	Jul
ED5600	Sewerage (300m & 9MHs), Stage 2 (Middle)					
ED5610	Drainage Works (773m & 34MHs), Stage 3 (Eastern)					
ED5620	Sewerage (269m & 7MHs), Stage 3 (Eastern)					
Waterpipe Laying						
EW5010	Fresh Water Main Laying (700 m), Stage 1 (Western)					
EW6010	Flushing Water Main Laying (322 m), Stage 1 (Western)					
EW6020	Fresh Water Main Laying (700 m), Stage 2 (Middle)					
EW6030	Flushing Water Main Laying (322 m), Stage 2 (Middle)					
EW6040	Fresh Water Main Laying (260 m), Stage 3 (Eastern)					
EW6050	Flushing Water Main Laying (323m), Stage 3 (Eastern)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5260	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5270	Duct & Cable Laying for TCSS & Lighting					
Roadworks						
ER1520	Subbase (6500 ton), Stage 1 (Western)					
PORTION A2						
Portion A2 Structures						
A04610	Raft Foundation					
A04620	Superstructure w/2 water tank					
Test & Commission						
B04620	Submission & Issue of WW046 I, II, III (inside Services & FS)					
048 - Reclaimed Water Pumping Station, Portion A2						
A04867	Backfilling + Removal of ELS					
A04890	Backfilling					
B04810	Superstructure Construction					
B04820	BS for Office Accommodations (Stage 8) (KD9)					
B04830	BS + E&M for Office Accommodation (Stage 9) (KD10)					
B04840	Other BS + E&M Installation					
Test & Commission						
B04860	DG Application					
B04880	Submission & Issue of WW046 I, II, III (inside Services & FS)					
Retaining Wall W9-2						
SW9210	Construction of Retaining Wall W9-2 (U-shape, 6 bay)					
External Works for Portion A2						
Drainage Works						
ED5630	Drainage Works (228m & 15MHs)					
ED5640	Sewerage (322m & 9MHs)					
Waterpipe Laying						
EW6060	Fresh Water Main Laying (336m)					
EW6070	Flushing Water Main Laying (91m)					
PORTION B						
Portion B Structures						
Retaining Wall W7-2						
S70890	Retaining Wall W7-2 Backfilling					
S70910	C3-S6 Slopeworks					
S70970	Retaining Wall W7-2 Parapet (2 pour) & E&M Works					
Retaining Wall W6-1						
S62060	Retaining Wall W6-1 Backfilling					

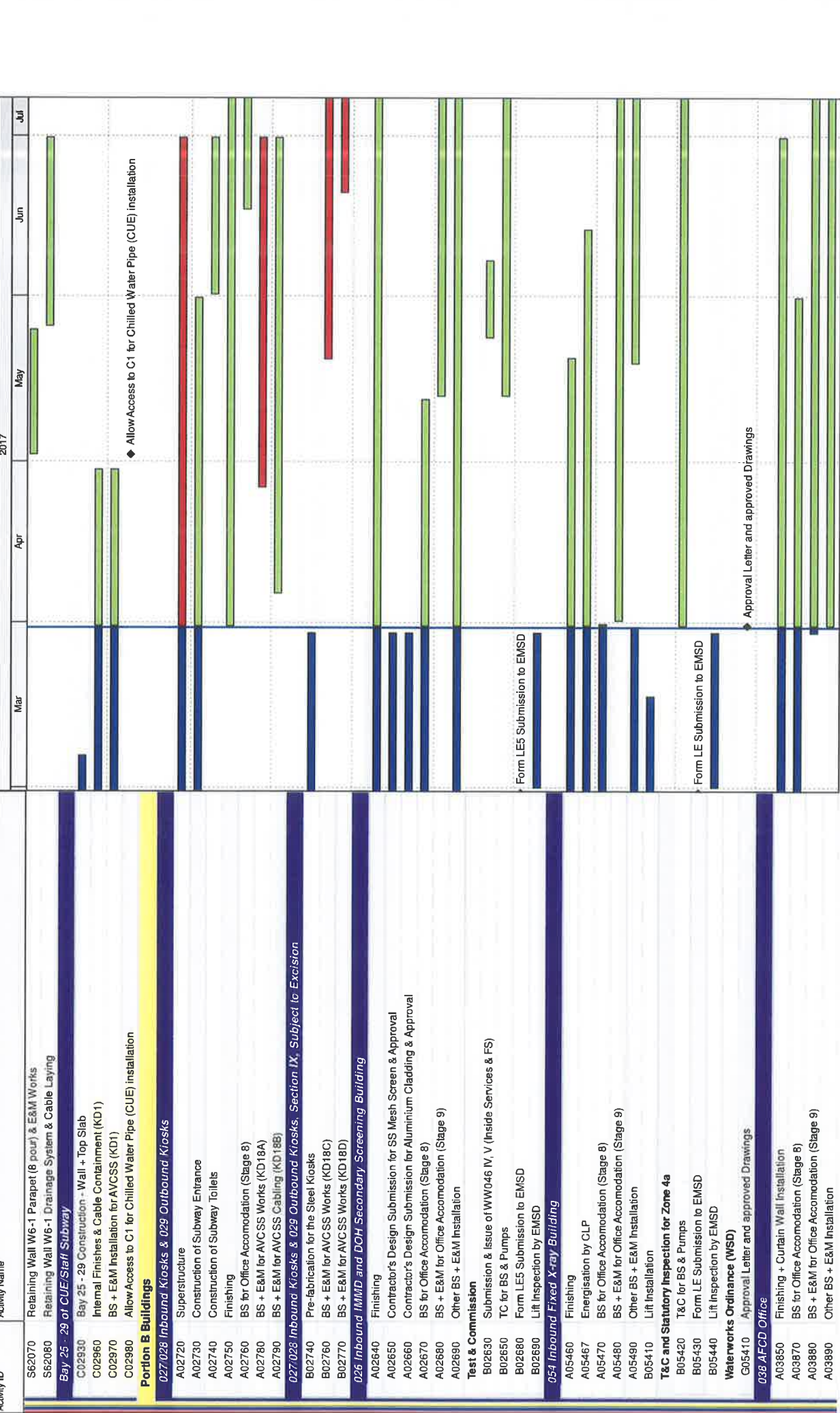
THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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Date	Revision	Checked	Approved
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█ Actual Work
█ Remaining Work
█ Critical
◆ Milestone

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█ Remaining Work
█ Critical
◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity Name: 2017 Apr May Jun Jul 03-Apr-17

Activity ID	Activity Name	Mar	Apr	May	Jun	Jul
Test & Commission						
B03810	T&C for BS & Pumps					
B03830	Submission & Issue of WWO46 I, II, III (Inside Services & FS)					
C03820	Form 2 Submission		Form 2 Submission			
039 Police Main Building						
A03940	Finishing + Curtain Wall Installation					
A03950	BS for Office Accommodation (Stage 8), & for TCSS works (KD14)					
A03960	BS + E&M for Office Accommodation (Stage 9)					
A03970	Other BS + E&M Installation					
Test & Commission						
B03920	Submission & Issue of WWO46 I, II, III (Inside Services & FS)					
B03930	Submission & Issue of WWO46 IV, V (Inside Services & FS)					
B03950	Beam Plus Monthly Submission & Issue					
C03950	Form 2 Submission					
C03970	T&C for BS & Pumps		Form 2 Submission			
040 Incident Control Tower						
A04040	Superstructure					
A04050	Finishing (KD9)					
A04060	BS for Office Accommodation (Stage 8), & for TCSS works (KD14)					
A04070	BS + E&M for Office Accommodation (Stage 9)					
Facade Cladding System						
B04020	Fabrication of F/C System					
B04030	Casted-in Items Installation					
B04040	Steel Frame Installation					
Glass Wall						
C04020	Fabrication of Glass Wall					
C04030	Casted-in Items Installation					
C04040	Steel Frame Installation					
Test & Commission						
D04030	T&C for BS & Pumps					
D04040	Form 2 Submission					Form 2 Submission
102 HKPF UVSS Monitor Room						
A10230	Finishing (False Ceiling) (KD9)					
A10240	BS for Office Accommodation (Stage 8)					
A10270	Other BS + E&M Installation					
C10210	WWO 46 Part I, II, III Submission (Inside Service + FS)					
Metal Canopy and Roof Installation						
B10212	Fabrication of MC/R					
B10220	Casted-in Items Installation					
B10230	Steel Frame Installation					
B10240	Glass panel, metal cladding panel installation					
103 Police Inspection Post						
A10350	Finishing (False Ceiling) (KD9)					
A10360	BS for Office Accommodation (Stage 8)					
A10380	Other BS + E&M Installation					
C10320	WWO 46 Part I, II, III Submission (Inside Service + FS)					
HPL Composite Panel Cladding System						
B10310	Shop Drawing Submission and Approval					
B10320	Fabrication of HPL Cladding					
B10330	Casted-in Items Installation					

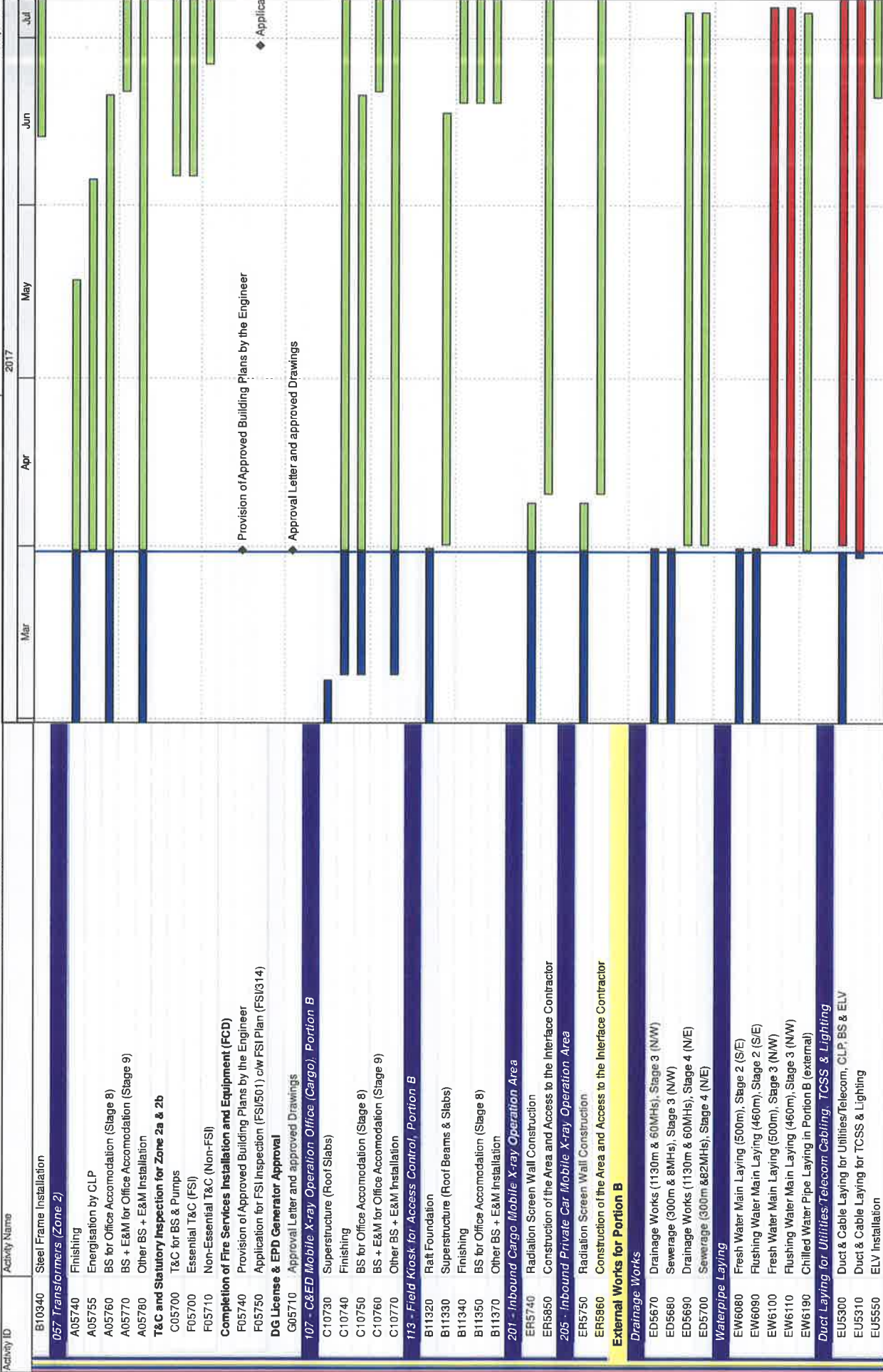
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03-Apr-17



Activity ID	Activity Name	Mar	Apr	May	Jun	Jul
B10340	Steel Frame Installation					
A05740	Finishing					
A05755	Energisation by CLP					
A05760	BS for Office Accommodation (Stage 8)					
A05770	BS + E&M for Office Accommodation (Stage 9)					
A05780	Other BS + E&M Installation					
C05700	T&C for BS & Pumps					
F05700	Essential T&C (FSI)					
F05710	Non-Essential T&C (Non-FSI)					
F05740	Provision of Approved Building Plans by the Engineer					
F05750	Application for FSI Inspection (FSI/501) c/w FSI Plan (FSI/314)					
G05710	Approval Letter and approved Drawings					
C10730	Superstructure (Roof Slabs)					
C10740	Finishing					
C10750	BS for Office Accommodation (Stage 8)					
C10760	BS + E&M for Office Accommodation (Stage 9)					
C10770	Other BS + E&M Installation					
B11320	Raft Foundation					
B11330	Superstructure (Roof Beams & Slabs)					
B11340	Finishing					
B11350	BS for Office Accommodation (Stage 8)					
B11370	Other BS + E&M Installation					
ER5740	Radiation Screen Wall Construction					
ER5850	Construction of the Area and Access to the Interface Contractor					
ER5750	Radiation Screen Wall Construction					
ER5960	Construction of the Area and Access to the Interface Contractor					
ED5670	Drainage Works (1130m & 60MHs), Stage 3 (N/W)					
ED5680	Sewerage (300m & 8MH-s), Stage 3 (N/W)					
ED5690	Drainage Works (1130m & 60MHs), Stage 4 (N/E)					
ED5700	Sewerage (300m & 82MHs), Stage 4 (N/E)					
EW6080	Fresh Water Main Laying (500m), Stage 2 (S/E)					
EW6090	Flushing Water Main Laying (460m), Stage 2 (S/E)					
EW6100	Fresh Water Main Laying (500m), Stage 3 (N/W)					
EW6110	Flushing Water Main Laying (460m), Stage 3 (N/W)					
EW6190	Chilled Water Pipe Laying in Portion B (external)					
EU5300	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5310	Duct & Cable Laying for TCSS & Lighting					
EU5550	ELV Installation					

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Activity ID	Activity Name	2017					03-Apr-17
		Mar	Apr	May	Jun	Jul	
Readworks							
ER1640	Subbase (10000 ton), Stage 1 (N/W)						
ER3590	Bitumen Pavement (14000 ton), Stage 1 (N/W)						
ER3600	Rigid Pavement (594 m3), Footpath & EVA, Stage 1 (N/W)						
ER5590	Subbase (11000 ton), Stage 2 (N/E)						
ER5600	Bitumen Pavement (15000 ton), Stage 2 (N/E)						
ER5610	Rigid Pavement (594 m3), Footpath & EVA, Stage 2 (N/E)						
Sign Gantry ADS 306A & ADS 306B							
ES240	Fabrication & Delivery of Sign Gantrys to Site						
PORTION C							
Portion C Buildings							
010 - Inbound Coach Kiosk & Staff Subway Entrance							
A01010	Substructure and Staircase Construction						
009 - Staff Subway Entrance (Bay 0 - 3) & Shuttle Bus Kiosks							
A00940	Finishing						
A00950	BS + E&M for AVCSS works (KD 1)						
A00960	Allow Access to C1 for Chilled Water Pipe Installation (CUE)						
B00920	Kiosk superstructure						
B00930	BS + E&M for AVCSS works (KD18A)						
B00940	BS + E&M for AVCSS Cabling (KD18B)						
012 - DOH Disinsection Area and Store Room 1, at Portion C							
B01210	Excavation & Blinding						
B01220	Raft Foundation						
B01230	Superstructure						
B01240	Finishing						
B01270	BS for Office Accommodation (KD 9)						
104 - DOH Secondary Screening Station, at Portion C							
Facade Cladding System							
A10460	Shop Drawing Submission and Approval						
A10465	Fabrication of F/C System						
108 C&E Mobile X-ray Machine Operation Office, Portion C							
A10805	Excavation & Blinding						
A10810	Raft Foundation						
A10840	Superstructure (Roof Beams & Slabs)						
HPL Composite Panel Cladding System							
A10800	Shop Drawing Submission and Approval						
A10815	Fabrication of HPL Cladding						
110 IMM D Guard Booth (Type 2) East							
A11020	Excavation & Blinding						
A11030	Substructure						
A11080	Finishing						
A11090	BS for Office Accommodation (Stage 8)						
B11020	Other BS + E&M Installation						
Facade Envelop Structure Installation							
A11040	Shop Drawing Submission and Approval						
A11045	Fabrication of F/C System						
A11050	Casted-in Items Installation						
111 Field Kiosk for Carpark Operator							
A11120	Excavation & Blinding						

◆ Allow Access to C1 for Chilled Water Pipe Installation (CUE) :

Legend

- Actual Work
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Activity ID	Activity Name	2017	Mar	Apr	May	Jun	Jul
A11130	Raft Foundation						
A11140	Superstructure (Roof beams & Slabs)						
HPL Composite Panel Cladding System							
B11110	Shop Drawing Submission and Approval						
B11120	Fabrication of HPL Cladding						
B11130	Casted-in Items Installation						
1/3 - Field Kiosk for Access Control, Portion C							
C11310	Excavation & Blinding						
C11320	Raft Foundation						
C11330	Superstructure (Roof Beams & Slabs)						
204 - Inbound Coach Exam Area & Mobile X-ray Operation							
ER5760	Radiation Screen Wall Construction						
External Works for Portion C							
<i>Works in Location 1.2, 1.8 & 011 - Emergency Generator Building</i>							
BB1440	Works & T&C in Location 1.2						
BB1450	Works & T&C in Location 1.8						
BB1460	ELV System Installations and T&C for Contract HY/2013/01						
BB1470	Provisioning of Civil Engineering Works for 011-Emergency Generator Building (KD18)						
Drainage Works							
B00040	Initial Survey						
SG2400	Drainage Works (400m & 18MHs), Stage 1 (Eastern)						
SG3610	Sewerage (90m & 2MHs), Stage 1 (Eastern)						
Waterpipe Laying							
SW2410	Fresh Water Main Laying (135m), Stage 1 (Eastern)						
SW2420	Flushing Water Main Laying (50m), Stage 1 (Eastern)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
SU5320	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
SU5330	Duct & Cable Laying for TCSS & Lighting						
Roadworks							
SR2500	Subbase (2100 ton), Stage 1 (Eastern)						
PORTION D							
Portion D Building							
<i>1/3 - Field Kiosk for Access Control, Portion D</i>							
C11360	Raft Foundation						
C11370	Superstructure (Roof Beams & Slabs)						
C11380	Finishing						
D11340	BS for Office Accommodation (Stage 8)						
External Works for Portion D							
Drainage Works							
SG3640	Drainage Works (361m & 14MHs)						
SG3760	Sewerage (121m & 6MHs)						
Waterpipe Laying							
SW3650	Fresh Water Main Laying (108m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
SU5340	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
SU5350	Duct & Cable Laying for TCSS & Lighting						
SU5640	Access date to Telephone Companies						
Roadworks							
SR3740	Subbase (261 ton)						

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2017

Activity ID	Activity Name	Mar	Apr	May	Jun	Jul
SR3770	Bitumen Pavement (619 ton)					
PORTIONE						
006 - Shuttle Bus Kiosk & Staff Subway Entrance, at Portion E & M						
A00620	Constructing base of Subway					
A00630	Constructing wall stem + top slab of Subway					
A00640	Backfilling					
A00650	Constructing Ground Slab					
A00660	Constructing Kiosk (4 Nr)					
A00670	Constructing Subway Entrance					
External Works for Portion E						
Drainage Works						
SG3780	Drainage Works (69m & 5MHs)					
SG3900	Sewerage (36m & 1 MH)					
Waterpipe Laying						
SW3790	Fresh Water Main Laying (45m)					
SW3800	Flushing Water Main Laying (25m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
SU5360	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
SU5370	Duct & Cable Laying for TCSS & Lighting					
Roadworks						
SR3880	Subbase (1659 ton)					
SR3910	Bitumen Pavement (2105 ton)					
SR3920	Rigid Pavement (180 m3)					
PORTION F						
External Works for Portion F						
Drainage Works						
B00070	Initial Survey					
SG3930	Drainage Works (122m & 9MHs)					
SG4050	Sewerage (70m & 3MHs)					
Waterpipe Laying						
SW3940	Fresh Water Main Laying (205m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
SU5380	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
SU5390	Duct & Cable Laying for TCSS & Lighting					
SU5420	ELV Installation					
Roadworks						
SR4030	Subbase (1534 ton)					
PORTION G, H1 & H2						
Portion G Structures						
Box Culvert C						
Box Culvert Structure						
SC0310	Box C - Branch Construction					
SC0320	Box C - Branch Backfilling					
SC0380	Box C - Construction of Main Body					
SC0390	Box C - Back filling					
Bridge A1						
Structure Deck						
SA1450	Falsework for Deck P101, P102					

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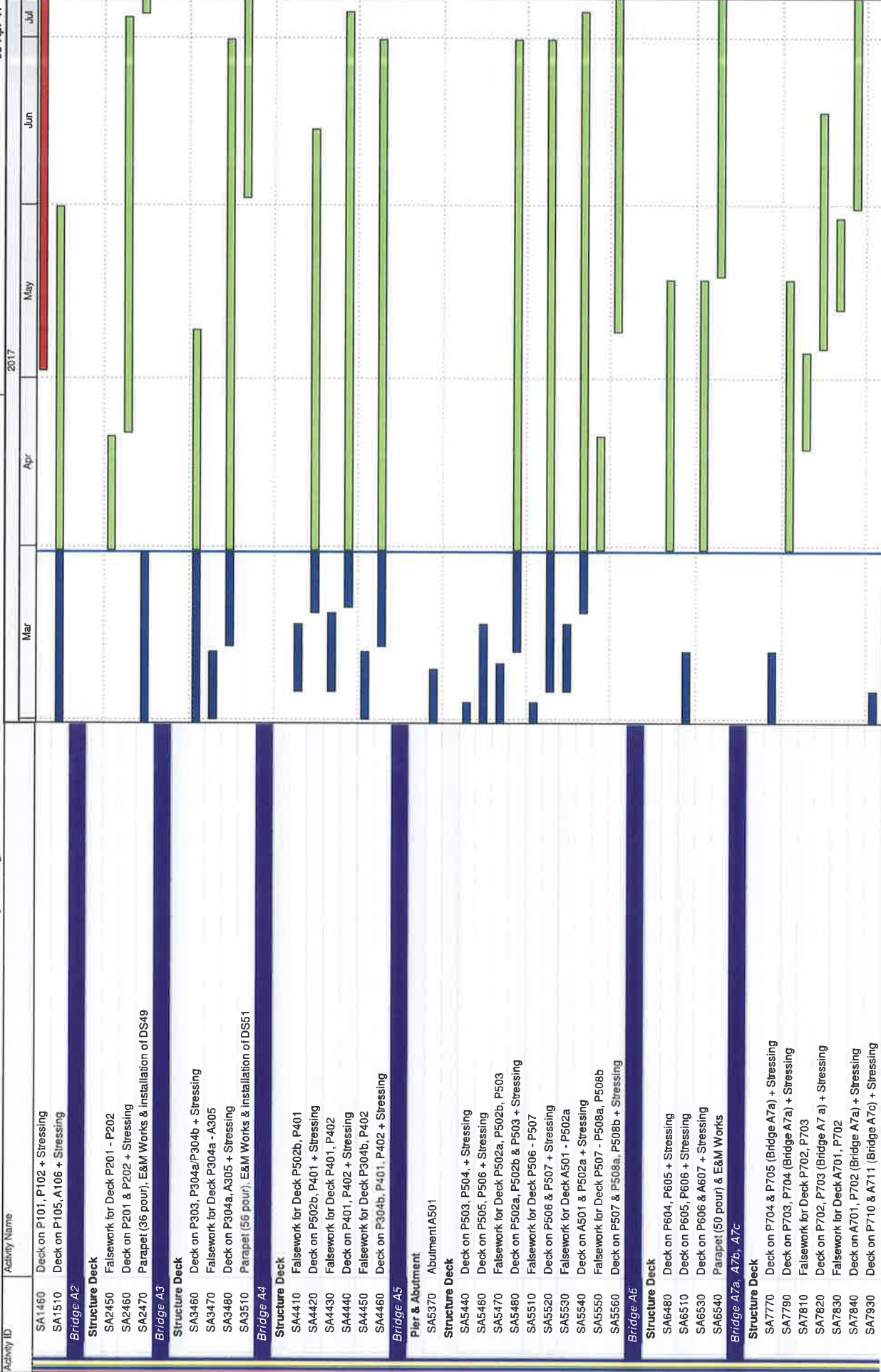
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- █ Actual Work
- █ Remaining Work
- █ Critical
- ◆ Milestone

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Activity ID	Activity Name	Mar	Apr	May	Jun	Jul
SA7940	Parapet for Bridge A7b (8 pour) & E&M Works					
SA7950	Parapet for Bridge A7c (38 pour) & E&M Works					
SA7960	Parapet for Bridge A7a (48 pour) & E&M Works					
SA7980	Bituminous Paving for A7c (400 ton)(KD25)					
Bridge A8						
Structure Deck						
SA8440	Deck on P802, P803 + Stressing					
SA8450	Falsework for Deck P803, P804					
SA8460	Deck on P803, A804 + Stressing					
SA8470	Parapet (26 Pour) & E&M works					
Retaining Walls W1-1, W3-1, W5-1 & W7-1						
Retaining Wall W1-1						
SW1110	Construction of Retaining Wall W1-1 (L-shape, 4 bays)					
SW1120	Retaining Wall W1-1 Backfilling					
Retaining Wall W3-1						
SW3150	Construction of Retaining Wall W3-1 (U-shape, 4 bays)					
SW3160	Backfilling W3-1					
Retaining Wall W5-1						
SW5010	Construction of Retaining Wall W5-1 (L-shape, 5 bays)					
Retaining Wall W7-1						
SW7110	Construction of Retaining Wall W7-1 (U-shape, 4 bays)					
Portion G Buildings						
002 - C&ED Observation Guard Booth No. 1, Portion H1						
C00220	Excavation + Blinding					
C00230	Raft Foundation					
C00240	Superstructure					
002 - C&ED Observation Guard Booth No. 2, Portion H1						
E00210	Excavation + Blinding					
E00220	Raft Foundation					
E00230	Superstructure					
033 Inbound Private Car Exam Building						
A03330	Finishing					
A03360	External Works					
A03370	BS for Office Accommodation (Stage 8)					
A03380	BS + E&M for Office Accommodation (Stage 9)					
A03390	Other BS + E&M Installation					
C03310	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
Glass Canopy Installation						
B03305	Fabrication of Glass Canopy					
B03350	Casted-in Items Installation					
B03360	Steel Frame Installation					
Aluminium Metal Canopy						
B03315	Fabrication of FC System					
B03320	Casted-in Items Installation					
B03330	Steel Frame Installation					
B03340	Aluminium Cladding Installation					
034 Satellite RCP South						
A03450	Finishing					
A03460	BS for Office Accommodation (Stage 8)					
A03470	BS + E&M for Office Accommodation (Stage 9)					

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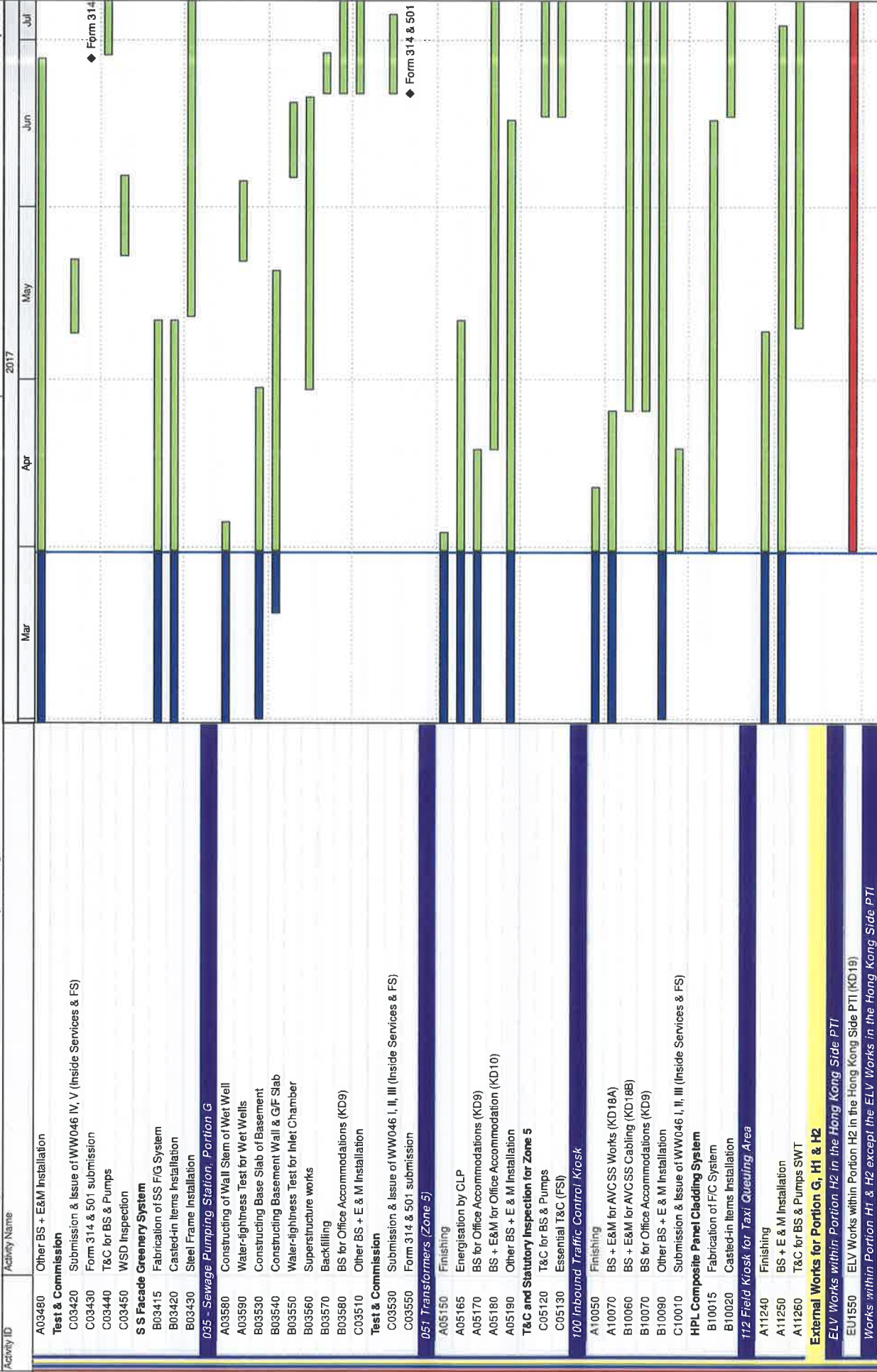
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Activity ID	Activity Name	2017					03-Apr-17
		Mar	Apr	May	Jun	Jul	
EU1560	Drainage & Sewerage Works within Portion H1 & H2 in the Hong Kong Side PTI (KD20)						
EU5520	Roadworks (+ Footpath) & Canopy Erection within Portion H1 & H2 in the Hong Kong Side PTI (KD20)						
All Works within the Boundary defined in Drawing No. 60191048/C3/000/C00/1050							
BEU1570	Drainage & Sewerage Works (incl. CLP) within the Boundary defined in Drawing No. 60191048/C3/000/1050						
Drainage Works							
ED4070	Drainage Works (6954m & 393MHs)						
ED4190	Sewerage (437m & 12MHs)						
Waterpipe Laying							
EW4080	Fresh Water Main Laying (1689m)						
EW4090	Flushing Water Main Laying (411m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5400	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
EU5560	ELV Installation						
Roadworks							
ER4170	Subbase (17045 ton)						
ER4200	Bitumen Pavement (24549 ton)						
ER4210	Rigid Pavement (51.4 m ³), Footpath & EVA						
Sign Gantry DS40, DS41 & DS75							
ES0080	Testing for Pre-bored H Piling						
ES0180	Fabrication & Delivery of Sign Gantys to Site						
Canopy and Covered Walkway							
CC1310	Shop drawing Approved & Fabrication						
CC1320	Footing						
CC1330	Steel Frame Installation						
PORTION J							
Portion J Structure							
Bay 30 - 41 of CUE/Staff Subway (Portion J)							
B03230	Bay 34 - 39 Construction - Wall + Top Slab, Staircase						
B03250	Bay 40 - 41 Construction - Wall + Top Slab, Staircase						
B03260	Internal Finishes & Cable Containment (KD2)						
B03270	BS + E&M Installation for AVCSS (Stage 2) (KD2)						
030 Outbound Private Car & GV Kiosks							
A03020	Pre-fabrication for the Steel Kiosks						
A03030	Superstructure (Incl. Entrance & Toilet)						
A03090	Other BS + E & M Installation						
030 Outbound Kiosks, Section IX, Subject to Excision							
C03020	Pre-fabrication for the Steel Kiosks						
C03030	Superstructure						
Portion J Buildings							
024 Outbound Private Car Exam Building							
A02410	Raft Foundation						
A02420	Superstructure						
A02430	Finishing (KD9)						
A02440	BS for Office Accommodations (KD18F)						
A02450	BS + E&M for Office Accommodation (KD18G)						
A02460	Other BS + E & M Installation (KD31)						
Test & Commission							
D02410	Submission & Issue of WW046 I, II, III (Inside Services & FS)						

█ Actual Work
█ Remaining Work
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◆ Milestone

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Activity ID	Activity Name	2017	Mar	Apr	May	Jun	Jul
Glass Canopy Installation							
B02415	Fabrication of F/C System						
B02420	Casted-in Items Installation						
B02430	Steel Frame Installation						
Aluminium Metal Canopy							
B02455	Fabrication of F/C System						
B02460	Casted-in Items Installation						
031 Outbound IMMD and DoH Secondary Screen Building							
A03140	Superstructure						
A03150	Finishing (KD31)						
A03160	BS for Office Accommodations (KD18F)						
A03180	Other BS + E & M Installation (KD31)						
Test & Commission							
C03120	Submission & Issue of WWQ46 I, II (Inside Services & FS)						
060 - Single Storey Support Building Associated with Buildings 044 & 045							
A06025	Finishing						
A06030	BS + E&M for Transform Room to CLP (KD8)						
A06045	Raft Foundation (other than transformer room)						
A06050	Superstructure (other than transformer room) Construction						
A06055	Energisation by CLP						
A06060	BS for Office Accommodation (Stage 10) (KD11)						
A06080	Other BS + E&M Installation						
T&C and Statutory Inspection for Zone 3a							
B06020	BEEQ Stage II & Accessor Certification Submission						
B06030	T&C for BS & Pumps						
Waterworks Ordinance (WSD)							
G06020	Submission of WWQ46 - Part I & II (Inside Services)						
DG License & EPD Generator Approval							
G06000	DG Application						
061 Telecom Building							
A06150	Finishing (KD9)						
A06160	BS for Office Accommodations (KD9)						
A06170	BS + E&M for Office Accommodation (KD10)						
A06180	Other BS + E & M Installation						
Aluminium Metal Canopy							
B06115	Fabrication of Aluminium Cladding						
B06120	Casted-in Items Installation						
B06130	Steel Frame Installation						
101 Outbound Traffic Control Kiosk							
A10100	Excavation + Blinding						
A10110	Raft Foundation						
A10130	Superstructure (Roof Beams & Slabs)						
A10140	Finishing						
A10150	BS + E&M for AVCSS Works (KD18A)						
A10160	BS + E&M for AVCSS Cabling (KD18B)						
A10170	BS for Office Accommodations (KD9)						
A10190	Other BS + E & M Installation						
C10110	Submission of WWQ46 - Part I & II (Inside Services)						
HPL Composite Panel Cladding System							
B10110	Shop Drawing Submission and Approval						

THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

Date	Revision	Checked	Approved
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Actual Work
Remaining Work
Critical
Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	2017					03-Apr-17
		Mar	Apr	May	Jun	Jul	
B10120	Fabrication of HPL Cladding						
B10130	Casted-in Items Installation						
206 - Outbound Private Car Mobile X-ray Operation Area							
ER5780	Radiation Screen Wall Construction						
External Works for Portion J							
Drainage Works							
ED4220	Drainage Works (1700m & 86MHs), Stage 1						
ED4340	Sewerage (425m & 11MHs), Stage 1						
ED5710	Drainage Works (1697m & 85MHs), Stage 2						
ED5720	Sewerage (425m & 12MHs), Stage 2						
Waterpipe Laying							
EW4230	Fresh Water Main Laying (770m), Stage 1 (Northern)						
EW4240	Flushing Water Main Laying (431m), Stage 1 (Northern)						
EW6140	Fresh Water Main Laying (771m), Stage 2 (Southern)						
EW6150	Flushing Water Main Laying (431m), Stage 2 (Southern)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5420	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
EU5430	Duct & Cable Laying for TCSS & Lighting						
Roadworks							
ER4320	Subbase (15400 ton), Stage 1 (Northern)						
ER4350	Bitumen Pavement (20000 ton), Stage 1 (Northern)						
ER4360	Rigid Pavement (173 m3), Footpath & EVA, Stage 1 (Northern)						
Sign Gantry DS104							
ES0140	Sign Gantry DS104 P-bored Piling, 8 Nr.						
ES5130	Testing for P-bored Piles						
ES5150	Fabrication & Delivery of Sign Gantrys to Site						
PORTION K, L, M, S & T							
Portion K Building							
002 - C&ED Observation Guard Booth No. 1, Portion K							
A00210	Excavation + Blinding						
A00220	Raft Foundation						
A00230	Superstructure						
002 - C&ED Observation Guard Booth No. 2, Portion K							
B00210	Excavation + Blinding						
B00220	Raft Foundation						
B00230	Superstructure						
Portion M Buildings							
108 - C&ED Mobile X-ray Operation Office, Portion M							
B10800	Excavation + Blinding						
B10810	Substructure (Raft Foundation)						
B10840	Superstructure (Roof beams & Slabs)						
B10850	Finishing						
B10860	BS for Office Accommodations (KD9)						
HPL Composite Panel Cladding System							
C10820	Fabrication of HPL Cladding						
C10830	Casted-in Items Installation						
104 DOH Screening Station, at Portion M							
C10400	Excavation + Blinding						
C10430	Structure (Raft Foundation)						

Legend

- █ Actual Work
- █ Remaining Work
- █ Critical
- ◆ Milestone

THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

2017 03-Apr-17

Activity ID	Activity Name	Mar	Apr	May	Jun	Jul
C10440	Finishing					
C10450	BS for Office Accommodations (KD9)					
C10470	Other BS + E & M Installation					
Facade Envelop Structure Installation						
D10450	Shop Drawing Submission and Approval					
D10455	Fabrication of F/C System					
D10460	Casted-in Items Installation					
203 - Outbound Coach Shuttle Bus Exam Area & Mobile X-ray Operation Area						
ER5770	Radiation Screen Wall Construction					
External Works						
Additional Works (Filling & RE Slope), SA1						
ED3230	C1 Contractor to Completed cooling mains at east Portion (Stage 2)					
ED3310	C1 Contractor to Complete Footbridge Supports at the South Portion					
ED3320	Fill Platform from +11.5PD to near PCB (South)					
ED3330	Add surcharge to Platform at +14.5mPD near PCB (South)					
ED3410	C2 Contractor to complete abutment at the North (2 nos.)					
ED3420	Fill Slope around C2 abutments					
Construction of Slopes						
ED3440	Construction of fill slope (Stage 2) (East)					
ED3510	Footing for the Planter Wall, RE slope (North & West)					
ED3520	Construct RE slope (West)					
ED3550	Construction of fill slope (North)					
Drainage Works						
ED4370	Drainage Works (1477m & 81MHs), Stage 1 (Eastern)					
ED4490	Sewerage (78m & 2MHs), Stage 1 (Eastern)					
Waterpipe Laying						
EW4380	Fresh Water Main Laying (608m), Stage 1 (Eastern)					
EW4390	Flushing Water Main Laying (13m), Stage 1 (Eastern)					
Duct Laying for Utilities: Telecom Cabling, TCSS & Lighting						
EU4500	Duct & Cable Laying for TCSS & Lighting					
Roadworks						
ER4470	Subbase (4600 ton), Stage 1 (Eastern)					
ER4500	Bitumen Pavement (4500 ton), Stage 1 (Eastern)					
ER4510	Rigid Pavement (750 m ³) & Footpath, Stage 1 (Eastern)					
Canopy and Covered Walkway						
CC1400	Shop drawing, Approved & Fabrication					
CC1410	Footing					
PORTION N						
Portion N Structure						
Box Culvert B						
Bored Pile						
SB0560	Install H-piles					
SB0590	Box B - Foundation: Revised as pre-bored H-Piles					
Box Culvert Structure						
SB0710	Box B - Construction (Stage 1)					
SB0720	Box B - Construction (Stage 2)					
SB0722	Box B - Temporary Works for Construction of Outfall Structure					
SB0730	Box B - Outfall Structure					
Portion N Buildings						

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Actual Work
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Activity ID	Activity Name	2017					03-Apr-17
		Mar	Apr	May	Jun	Jul	
104 DOH Screening Station, at Portion N							
C10405	Excavation + Blinding (+ PL Test)						
C10410	Structure (Raft Foundation)						
C10420	Finishing						
E10410	BS for Office Accommodations (KD9)						
E10430	Other BS + E & M Installation						
Facade Envelop Structure Installation							
D10410	Shop Drawing Submission and Approval						
D10415	Fabrication of F/C System						
D10420	Casted-in Items Installation						
106 C&ED Detention Area Guard Booth							
A10600	Excavation + Blinding						
A10610	Structure (Raft Foundation)						
A10640	Finishing						
E10640	BS for Office Accommodations (KD9)						
E10660	Other BS + E & M Installation						
Facade Envelop Structure Installation							
B10610	Shop Drawing Submission and Approval						
B10615	Fabrication of F/C System						
107 C&ED Mobile X-ray Operation Office, Portion N							
A10700	Excavation + Blinding						
A10710	Substructure (Raft Foundation)						
A10740	Superstructure						
A10750	Finishing (KD9)						
A10760	Other BS + E & M Installation (KD10)						
HPL Composite Panel Cladding System							
B10710	Shop Drawing Submission and Approval						
B10720	Fabrication of HPL Composite Panel System						
B10730	Casted-in Items Installation						
200 - Inbound/Outbound Vehicle Detection Area							
ERS610	Construction of the Area and Access to the Interface Contractor						
202 - Outbound Cargo Mobile X-ray Operation Area							
ERS790	Radiation Screen Wall Construction						
External Works for Portion N							
Drainage Works							
ED4620	Drainage Works (964m & 56M(Hs), Stage 1 (Southern))						
ED4650	Sewerage (383m & 12M(Hs), Stage 1 (Southern))						
ED5750	Drainage Works (963m & 55M(Hs), Stage 2 (Northern))						
ED5760	Sewerage (383m & 12M(Hs), Stage 2 (Northern))						
Waterpipe Laying							
EW4530	Fresh Water Main Laying (641m)						
EW4540	Flushing Water Main Laying (413m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5460	Duct & Cable Laying for Utilities/telecom, CLP, BS & ELV						
EU5470	Duct & Cable Laying for TCSS & Lighting						
PORTION P							
Portion Structure							
Retaining Wall RW1							
RW1110	Construction of Retaining Wall RW1 (U-shape, 3 bays)						

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Activity ID	Activity Name	2017				
		Mar	Apr	May	Jun	Jul
Portion P Buildings						
105 IMM/D Guard Booth, Portion P						
A10510	Excavation + Blinding					
A10520	Substructure (Raft Foundation)					
A10530	On Grade Ground Slab					
A10540	Finishing					
E10500	BS for Office Accommodations (KD9)					
E10510	BS + E&M for Office Accommodation (KD10)					
E10520	Other BS + E & M Installation					
Facade Envelop Structure Installation						
A10560	Shop Drawing Submission and Approval					
A10565	Fabrication of F/C System					
A10570	Casted-in Items Installation					
External Works for Portion P						
Drainage Works						
AS0160	Initial Survey					
ED4670	Drainage Works (2957m & 128MHs)					
ED4790	Sewerage (269m & 7MHs)					
Waterpipe Laying						
EW4680	Fresh Water Main Laying (1270m)					
EW4690	Flushing Water Main Laying (455m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5640	Access date to Telephone Companies					
Roadworks						
ER4770	Subbase (16519 ton)					
ER4800	Bitumen Pavement (23958 ton)					
ER4810	Rigid Pavement (220 m3), Footpath & EVA					
PORTION Q						
External Works for Portion Q						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
ED5570	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
ED5580	Duct & Cable Laying for TCSS & Lighting					
EU1490	ELV System Installation for Contract HY/2013/04					
Roadworks						
AS0170	Initial Survey					
AS1810	C3-S1 Slope Construction					
AS1820	C3-S2 Slope Construction					
PORTION R						
Portion R Building						
002 - C&ED Observation Guard Booth, Portion R						
D00210	Excavation + Blinding					
D00220	Raft Foundation					
D00230	Superstructure					
External Works for Portion R						
Drainage Works						
AS0180	Initial Survey					
ED4960	Drainage Works (1040m & 70MHs)					
ED5080	Sewerage (272m & 7MHs)					
Waterpipe Laying						

◆ Access date to Telephone Companies

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Actual Work
 Remaining Work
 Critical
 Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

03-Apr-17

Activity ID	Activity Name	2017				
		Mar	Apr	May	Jun	Jul
EW4970	Fresh Water Main Laying (614m)					
EW4980	Flushing Water Main Laying (222m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5500	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5510	Duct & Cable Laying for TCSS & Lighting					
EU5610	ELV Installation					
Landscaped Works						
AS170	Design and Procurement for Irrigation System					

■ Actual Work
■ Remaining Work
■ Critical
◆ Milestone

THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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Activity ID	Activity Name	2017			
		Apr	May	Jun	Jul
CONTRACT DATES		KD2 Achievement of Stage 2 of the Works (460 days; 12 Jul. 16) KD18A Achievement of Stage 18 of the Works (478 days; 30 Jul. 16 EOT1) KD18F Achievement of Stage 23 of the Works (730 days; 08 Apr. 17) KD18A Achievement of Stage 2 of the Works (460 days; 12 Jul. 16) KD18F Achievement of Stage 23 of the Works (730 days; 08 Apr. 17)			
Key Dates		KD2 Achievement of Stage 2 of the Works (460 days; 12 Jul. 16) KD18A Achievement of Stage 18 of the Works (478 days; 30 Jul. 16 EOT1) KD18F Achievement of Stage 23 of the Works (730 days; 08 Apr. 17)			
Site Access & Possession		Possession of Portion C (<=100 days) Possession of Portion F (<=220 days) Possession of Portion J (<=320 days) Possession of Portion N (<=345 days) Possession of Portion P (<=502 days) Possession of Portion Q (<=500 days) Possession of Portion R (<=610 days)			
Access to Locations of the Site		Contract Date for Access to Location 1.1 (490 days) Contract Date for Access to Location 1.4 (488 days) Contract Date for Access to Location 1.8 PCB (Ground Floor level or above) (515 days) Contract Date for Access to External Area for Contract HY/2013/01 for ELV System Installation (570 days) Contract Date for Access to External Area for Contract HY/2013/02 for ELV System Installation (560 days) Contract Date for Access to External Area for Contract HY/2013/04 ELV System Installation (560 days)			
PORTION A1					
Portion A1 Structures					
Bridge A9					
Structure Deck					
SA9410	Deck on A905, P904 + Stressing				
SA9420	Deck on P904, P903 + Stressing				
SA9430	Falsework for Deck P903 - P902				
SA9440	Deck on P903 & P902 + Stressing				
SA9450	Falsework for Deck P902 - A901				
SA9460	Deck on P902 & A901 + Stressing				
Retaining Wall W8-1					
SW8110	Construction of Retaining Wall W8-1 (U-shape, 4 bays)				
SW8120	Backfilling W8-1				
SW8130	Parapet W8-1 (16 pour) & E&M Works				
SW8140	RW8-1 Drainage system & Cable Laying				
Retaining Wall W9-1					
SW9110	Construction of Retaining Wall W9-1 (U-shape, 4 bays)				
SW9120	Backfilling W9-1				
SW9130	Parapet W9-1 (16 pour) & E&M Works				
SW9140	Drainage System & Cable Laying				
047 - Fresh Water Pumping Station, Portion A1 & A2					
A04740	Water Tank Construction				
A04750	Pump House Construction				
A04752	Water-tightness Test for Water Tank				

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VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

- █ Actual Work
- █ Remaining Work
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- ◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	2017				02-May-17
		Apr	May	Jun	Jul	
A04760	Parapet Wall at Roof Slab & Fishing					
A04770	BS Installation + E&M (Degree 2)					
A04780	BS Installation + E&M (Degree 3)					
A04790	T&C for BS & Pumps					
Test & Commission						
B04730	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B04740	WSD Inspection					
049 - Sewage Treatment Plant, Portion A1 & A2						
B04990	Constructing Wall Stem for Equalization Tanks					
C04910	Water-tightness Test for Equalization Tanks					
D04985	Energisation by CLP					
D04990	Other Ground Slab Construction					
E04910	Other Superstructure Construction					
E04940	BS for Office Accommodations (KD9) (Degree 2)					
T&C and Statutory Inspection						
F04910	Essential T&C (FSI)					
F04950	Submission & Issue of WW046 IV, V (Inside Services & FS)					
F04960	WSD Inspection					
G04910	Discharge Licence Application					
Portion A1 Buildings						
012 - DOH Disinsection Area and Store Room 1, at Portion A1						
A01250	Finishing					
A01270	BS + E&M for Office Accommodation (Stage 9) (Degree 3)					
A01280	Other BS + E&M Installation					
A01285	DG Application					
Test & Commission						
C01210	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
C01220	Submission & Issue of WW046 IV, V (Inside Services & FS)					
C01250	OP Application & TPIDC Inspection					
036 - Weigh Station						
A03680	BS + E&M for Office Accommodation (Stage 9)					
A03690	Other BS + E&M Installation					
B03610	T&C for BS & Pumps					
Test & Commission						
B03630	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B03640	Form 314 & 501 submission					
B03650	WSD Inspection					
B03660	FSD Inspection					
B03670	BEE0 Stage II & Accessor Certification Submission					
B03680	OP Application & TPIDC Inspection					
037 C&ED Tower Cum Inbound Cargo Examination Building (Portion A1 & B)						
A03742C	Mock-up Sample for Mesh Screen Wall (SS41) & Balustrade					
A03744	Curtain Wall/Metal Roof/Aluminium Cladding Installation					
A03752	Floor Screenshot/Tiling					
A03756	Window/Door Frame Installation					
A03758	Paint Finish					
A03770	BS + E&M for AVCSS Cabling (KD18B)					
A03780	BS for Office Accommodation (KD9)					
A03785	BS for Office Accommodation (KD10)					
A03790	Other BS + E&M Installation					

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

02-May-17

Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
Test & Commission						
B03710	T&C for BS & Pumps					
B03730	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B03750	Form 314 & 501 submission					
B03760	Lit Inspection by EMSD					
B03770	WSD Inspection					
B03780	FSD Inspection					
B03790	Beam Plus Monthly Submission & Issue					
041 Fire Station Cum Ambulance Depot						
A04126	Cladding & Curtain Wall Installation (incl. steel & metal works)					
A04133	Wall Plastering/Wall Tiling					
A04134	Floor Screeding/Tiling/Vinyl Tiles					
A04135	Ceiling/Wall Painting					
A04137	False Ceiling Installation					
A04140	BS for Office Accommodation (Stage 8)					
A04150	BS + E&M for Office Accommodation (Stage 9)					
A04160	Other BS + E&M Installation					
A04170	External Finishing					
A04180	C/S Plastering/Tiling					
Test & Commission						
B04110	T&C for BS & Pumps					
B04120	Submission & Issue of WW046 I, II, III (Inside services & FS)					
B04130	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B04140	Form 314 & 501 submission					
B04150	Form LES Submission to EMSD					
C04130	Beam Plus Monthly Submission & Issue					
C04140	BEE0 Stage II & Accessor Certification Submission					
042 Drill Tower						
A04260	Finishing					
A04270	BS for Office Accommodation (Stage 8)					
A04280	BS + E&M for Office Accommodation (Stage 9)					
A04290	Other BS + E&M Installation					
Test & Commission						
B04210	BEE0 Stage II & Accessor Certification Submission					
B04220	T&C for BS Pumps					
B04230	WSD Inspection					
B04240	FSD Inspection					
B04250	OP Application & TPIDC Inspection					
043 DOH Office + Store Room						
A04370	Gladding & Curtain Wall Installation (incl. steel & metal works)					
A04380	BS for Office Accommodation (Stage 8)					
A04390	BS + E&M for Office Accommodation (Stage 9)					
B04310	Other BS + E&M Installation					
B04330	Stainless Steel Mesh Installation					
B04340	Metal Windows/Louvers/Doors/Railing etc. installation					
B04350	Blockworks					
B04360	Wall Plastering/Tiling					
B04370	Floor Screeding/Tiling					
B04380	False Ceiling Installation & Painting					
B04390	Carpentry (Wooden Doors/Partition/Lockers/Etc.)					

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Actual Work
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	2017					02-May-17
		Apr	May	Jun	Jul	Aug	
C04310	C/S Wall Plastering						
C04320	Paint Finishing to Walls						
Test & Commission							
C04330	T&C for BS & Pumps						
C04340	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
C04350	Submission & Issue of WW046 IV, V (Inside Services & FS)						
C04360	Form 2 Submission						
C04370	Form 314 & 501 submission						
C04380	DG application						
D04310	WSD Inspection						
D04350	BEEC Stage II & Accessor Certification Submission						
052 - Transforms (Zone 4)							
A05235	Engraisation by CLP						
A05270	Main Switch/L.V. Switch Board Installation						
T&C and Statutory Inspection							
B05210	T&C for BS & Pumps						
B05230	DG Inspection						
B05270	Non-Essential T&C (Non-FSI)						
B05280	OP Application & TPIDC Inspection						
Completion of Fire Services Installation and Equipment (FCD)							
C05210	Approved Building Plans						
105 IMMED Guard Booth, Portion A1 (Mock Up)							
B10510	Excavation + Blinding						
B10520	Substructure (Raft Foundation)						
B10530	On Grade Ground Slab						
B10540	Finishing						
B10550	BS for Office Accommodations (KD9)						
B10560	BS + E&M for Office Accommodation (KD10)						
B10570	Other BS + E & M Installation						
Facade Envelop Structure Installation							
B10580	Shop Drawing Submission and Approval						
B10590	Fabrication of/F/C System						
C10510	Casted-in Items Installation						
C10520	Steel Frame Installation						
210 - Immed GV Secondary Examination Bays Inbound							
ER5830	Construction of the Area and Access to the Interface Contractor						
External Works for Portion A1							
Drainage Works							
ED5590	Drainage Works (774m & 35MHs), Stage 2 (Middle)						
ED5600	Sewerage (300m & 9MHs), Stage 2 (Middle)						
ED5610	Drainage Works (773m & 34MHs), Stage 3 (Eastern)						
ED5620	Sewerage (269m & 7MHs), Stage 3 (Eastern)						
Waterpipe Laying							
EW5010	Fresh Water Main Laying (700 m), Stage 1 (Western)						
EW6010	Flushing Water Main Laying (322 m), Stage 1 (Western)						
EW6020	Fresh Water Main Laying (700 m), Stage 2 (Middle)						
EW6030	Flushing Water Main Laying (322 m), Stage 2 (Middle)						
EW6040	Fresh Water Main Laying (260 m), Stage 3 (Eastern)						
EW6050	Flushing Water Main Laying (323m), Stage 3 (Eastern)						
Duct Laying for Utilities/Telecom Cabling, ICSS & Lighting							

█ Actual Work
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█ Critical
◆ Milestone

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Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
EUS260	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EUS270	Duct & Cable Laying for TCSS & Lighting					
Roadworks						
ER1520	Subbase (8500 ton), Stage 1 (Western)					
ER3540	Bitumen Pavement (10000 ton), Stage 1 (Western)					
ER3550	Rigid Pavement (900 m3), Footpath & EVA, Stage 1 (Western)					
Road Furniture						
ER0800	ELV Installation					
PORTION A2						
Portion A2 Structures						
046 - Refuse Collection Point, Portion A2						
A04610	Raft Foundation					
A04620	Superstructure w/2 water tank					
A04630	BS for Office Accommodations (Stage 8) (KD9)					
A04660	Other BS + E&M Installation					
Test & Commission						
B04620	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
B04630	Submission & Issue of WW046 IV, V (Inside Services & FS)					
048 - Reclaimed Water Pumping Station, Portion A2						
B04810	Superstructure Construction					
B04820	BS for Office Accommodations (Stage 8) (KD9)					
B04830	BS + E&M for Office Accommodation (Stage 9) (KD10)					
B04840	Other BS + E&M Installation					
Test & Commission						
B04850	T&C for BS & Pumps & SWT					
B04860	DG Application					
B04880	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
Retaining Wall W9-2						
SW9210	Construction of Retaining Wall W9-2 (U-shape, 6 bay)					
SW9220	Backfilling for Retaining Wall W9-2					
External Works for Portion A2						
Drainage Works						
ED5630	Drainage Works (228m & 15MHs)					
ED5640	Sewerage (322m & 9MHs)					
Waterpipe Laying						
EW6060	Fresh Water Main Laying (336m)					
EW6070	Flushing Water Main Laying (91m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EUS280	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EUS290	Duct & Cable Laying for TCSS & Lighting					
Road Furniture						
ER2340	ELV Installation					
PORTION B						
Portion B Structures						
Retaining Wall W7-2						
S70890	Retaining Wall W7-2 Backfilling					
S70910	C3-S6 Slopeworks					
S70970	Retaining Wall W7-2 Parapet (2 pour) & E&M Works					
S70980	Retaining Wall W7-2 Drainage System & Cable Laying					

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Activity Name	Apr	May	Jun	Jul	Aug
Retaining Wall W6-1					
S62060 Retaining Wall W6-1 Backfilling					
S62070 Retaining Wall W6-1 Parapet (8 pour) & E&M Works					
S62080 Retaining Wall W6-1 Drainage System & Cable Laying					
S62210 Retaining Wall W6-1 Bituminous Paving (347 ton) (KD25)					
Bay 25 - 29 of CQE/Staff Subway					
C02960 Internal Finishes & Cable Containment (KD1)					
C02970 BS + E&M Installation for AVCSS (KD1)					
Portion B Buildings					
027-028 Inbound Kiosks & 029 Outbound Kiosks					
A02720 Superstructure					
A02730 Construction of Subway Entrance					
A02740 Construction of Subway Toilets					
A02750 Finishing					
A02760 BS for Office Accommodation (Stage 8)					
A02780 BS + E&M for AVCSS Works (KD18A)					
A02790 BS + E&M for AVCSS Cabling (KD18B)					
A02720 Other BS + E&M Installation					
Test & Commission					
B02830 Submission & issue of WW046 IV, V (Inside Services & FS)					
027-028 Inbound Kiosks & 029 Outbound Kiosks, Section IX, Subject to Excision					
B02740 Pre-fabrication for the Steel Kiosks					
B02750 Superstructure					
B02760 BS + E&M for AVCSS Works (KD18C)					
B02770 BS + E&M for AVCSS Works (KD18D)					
B02780 BS + E&M for allowing users to move in furniture (KD18E)					
026 Inbound IMMD and DOH Secondary Screening Building					
A02640 Finishing					
A02650 Contractor's Design Submission for SS Mesh Screen & Approval					
A02660 Contractor's Design Submission for Aluminium Cladding & Approval					
A02670 BS for Office Accommodation (Stage 8)					
A02680 BS + E&M for Office Accommodation (Stage 9)					
A02690 Other BS + E&M Installation					
Test & Commission					
B02630 Submission & issue of WW046 IV, V (Inside Services & FS)					
B02650 TC for BS & Pumps					
B02690 Lift Inspection by EMSD					
054 Inbound Fixed X-ray Building					
A05460 Finishing					
A05467 Energisation by CLP					
A05470 BS for Office Accommodation (Stage 8)					
A05480 BS + E&M for Office Accommodation (Stage 9)					
A05490 Other BS + E&M Installation					
T&C and Statutory Inspection for Zone 4a					
B05420 T&C for BS & Pumps					
B05440 Lift Inspection by EMSD					
Waterworks Ordinance (WSD)					
G05410 Approval Letter and approved Drawings					
038 AFCD Office					
A03850 Finishing + Curtain Wall Installation					

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◆ Approval Letter and approved Drawings

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Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
A03870	BS for Office Accommodation (Stage 8)					
A03880	BS + E&M for Office Accommodation (Stage 9)					
A03890	Other BS + E&M Installation					
Test & Commission						
B03810	T&C for BS & Pumps					
B03830	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
C03820	Form 2 Submission					
C03860	BEE0 Stage II & Accessor Certification Submission					
039 Police Main Building						
A03940	Finishing + Curtain Wall Installation					
A03950	BS for Office Accommodation (Stage 8), & for TCOSS works (KD14)					
A03960	BS + E&M for Office Accommodation (Stage 9)					
A03970	Other BS + E&M Installation					
Test & Commission						
B03920	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
B03930	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B03940	BEE0 Stage II & Accessor Certification Submission					
B03950	Bearm Plus Monthly Submission & Issue					
C03950	Form 2 Submission					
C03970	T&C for BS & Pumps					
040 Incident Control Tower						
A04050	Finishing (KD9)					
A04060	BS for Office Accommodation (Stage 8), & for TCOSS works (KD14)					
A04070	BS + E&M for Office Accommodation (Stage 9)					
Facade Cladding System						
B04020	Fabrication of F/C System					
B04030	Casted-in Items Installation					
B04040	Steel Frame Installation					
B04050	Cladding Panel Installation					
Glass Wall						
C04020	Fabrication of Glass Wall					
C04030	Casted-in Items Installation					
C04040	Steel Frame Installation					
Test & Commission						
D04030	T&C for BS & Pumps					
D04040	Form 2 Submission					
102 HKPF UVSS Monitor Room						
A10230	Finishing (False Ceiling) (KD9)					
A10240	BS for Office Accommodation (Stage 8)					
A10260	BS + E&M for Office Accommodation (Stage 9)					
A10270	Other BS + E&M Installation					
C10210	WWO 46 Part I, II, III Submission (Inside Service + FS)					
C10240	FSI Form 314 & 501 Submission					
Metal Canopy and Roof Installation						
B10212	Fabrication of MC/R					
B10220	Casted-in Items Installation					
B10230	Steel Frame Installation					
B10240	Glass panel, metal cladding panel installation					
103 Police Inspection Post						
A10350	Finishing (False Ceiling) (KD9)					

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Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
A10360	BS for Office Accommodation (Stage 8)					
A10370	BS + E&M for Office Accommodation (Stage 9)					
A10380	Other BS + E&M Installation					
C10320	WVO 46 Part I, II, III Submission (inside Service + FS)					
B10320	HPL Composite Panel Cladding System					
B10330	Fabrication of HPL Cladding					
B10340	Cashed-in Items Installation					
B10340	Steel Frame Installation					
057 Transformers (Zone 2)						
A05740	Finishing					
A05755	Energisation by CLP					
A05760	BS for Office Accommodation (Stage 8)					
A05770	BS + E&M for Office Accommodation (Stage 9)					
A05780	Other BS + E&M Installation					
T&C and Statutory Inspection for Zone 2a & 2b						
C05700	T&C for BS & Pumps					
F05700	Essential T&C (FSI)					
F05710	Non-Essential T&C (Non-FSI)					
Completion of Fire Services Installation and Equipment (FCD)						
F05740	Provision of Approved Building Plans by the Engineer					
F05750	Application for FSI Inspection (FSI501) c/w FSI Plan (FSI314)					
F05760	Provision of Direct Link for Fire Alarm System by Chubb					
F05770	FSI Inspection (2 Trials)					
DG License & EPD Generator Approval						
G05710	Approval Letter and approved Drawings					
G05730	DG Inspection					
107 - C&ED Mobile X-ray Operation Office (Cargo), Portion B						
C10740	Finishing					
C10750	BS for Office Accommodation (Stage 8)					
C10760	BS + E&M for Office Accommodation (Stage 9)					
C10770	Other BS + E&M Installation					
C10780	T&C for BS & Pumps					
113 - Field Kiosk for Access Control, Portion B						
B11330	Superstructure (Root Beams & Slabs)					
B11340	Finishing					
B11350	BS for Office Accommodation (Stage 8)					
B11370	Other BS + E&M Installation					
B11380	T&C for BS & Pumps					
201 - Inbound Cargo Mobile X-ray Operation Area						
ER5740	Radiation Screen Wall Construction					
ER5850	Construction of the Area and Access to the Interface Contractor					
205 - Inbound Private Car Mobile X-ray Operation Area						
ER5750	Radiation Screen Wall Construction					
ER5860	Construction of the Area and Access to the Interface Contractor					
External Works for Portion B						
Works in Location 1.7A						
BB1480	ELV Works & T&C in Location 1.7A					
Works in Location 1.7B						
BB1490	ELV Works & T&C in Location 1.7B					
Drainage Works						

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Activity ID	Activity Name	2017					02-May-17
		Apr	May	Jun	Jul	Aug	
ED5670	Drainage Works (1130m & 60MHs), Stage 3						
ED5680	Sewerage (300m & 6MHs), Stage 3						
ED5690	Drainage Works (1130m & 60MHs), Stage 4						
ED5700	Sewerage (300m & 62MHs), Stage 4						
Waterpipe Laying							
EW6080	Fresh Water Main Laying (500m), Stage 2						
EW6090	Flushing Water Main Laying (460m), Stage 2						
EW6100	Fresh Water Main Laying (1000m), Stage 3						
EW6110	Flushing Water Main Laying (931m), Stage 3						
EW6190	Chilled Water Pipe Laying in Portion B (external)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5300	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
EU5310	Duct & Cable Laying for TCSS & Lighting						
EU5550	ELV Installation						
Roadworks							
ER1640	Subbase (10000 ton), Stage 1 (NW)						
ER3590	Bitumen Pavement (14000 ton), Stage 1 (NW)						
ER3600	Rigid Pavement (594 m3), Footpath & EVA, Stage 1 (NW)						
ER5590	Subbase (11000 ton), Stage 2 (N/E)						
ER5600	Bitumen Pavement (15000 ton), Stage 2 (N/E)						
ER5610	Rigid Pavement (594 m3), Footpath & EVA, Stage 2 (N/E)						
ER5620	Subbase (11000 ton), Stage 3 (S/W)						
Road Furniture							
ER1620	Road Furniture						
Sign Gantry ADS 306A & ADS 306B							
ES5240	Fabrication & Delivery of Sign Gantries to Site						
PORTION C							
Portion C Buildings							
010 - Inbound Coach Kiosk & Staff Subway Entrance							
A01010	Substructure and Staircase Construction						
009 - Staff Subway Entrance (Bay 0 - 3) & Shuttle Bus Kiosks							
B00920	Kiosk superstructure						
B00930	BS + E&M for AVCSS works (KD18A)						
B00940	BS + E&M for AVCSS Cabling (KD18B)						
012 - DOH Disinsection Area and Store Room 1, at Portion C							
B01210	Excavation & Blinding						
B01220	Raft Foundation						
B01230	Superstructure						
104 - DOH Secondary Screening Station, at Portion C							
Facade Cladding System							
A10460	Shop Drawing Submission and Approval						
A10465	Fabrication of FC System						
108 C&E Mobile X-ray Machine Operation Office, Portion C							
A10805	Excavation & Blinding						
A10810	Raft Foundation						
A10840	Superstructure (Roof Beams & Slabs)						
A10850	Finishing						
A10860	BS for Office Accommodation (Stage 8)						
A10890	Other BS + E&M Installation						

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█ Remaining Work
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Contract No.: HY2013/03

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Activity ID	Activity Name	2017				02-May-17
		Apr	May	Jun	Jul	
HPL Composite Panel Cladding System						
A10800	Shop Drawing Submission and Approval					
A10815	Fabrication of HPL Cladding					
110 IMMD Guard Booth (Type 2) East						
A11020	Excavation & Blinding					
A11030	Substructure					
A11080	Finishing					
A11090	BS for Office Accommodation (Stage 8)					
B11020	Other BS + E&M Installation					
Facade Envelop Structure Installation						
A11040	Shop Drawing Submission and Approval					
A11045	Fabrication of FC System					
A11050	Casted-in Items Installation					
111 Field Kiosk for Carpark Operator						
A11120	Excavation & Blinding					
A11130	Raft Foundation					
A11140	Superstructure (Roof beams & Slabs)					
HPL Composite Panel Cladding System						
B11110	Shop Drawing Submission and Approval					
B11120	Fabrication of HPL Cladding					
B11130	Casted-in Items Installation					
113 - Field Kiosk for Access Control, Portion C						
C11310	Excavation & Blinding					
C11320	Raft Foundation					
C11330	Superstructure (Roof Beams & Slabs)					
204 - Inbound Coach Exam Area & Mobile X-ray Operation						
ER5760	Radiation Screen Wall Construction					
ER5980	Construction of the Area and Access to the Interface Contractor					
External Works for Portion C						
Works in Location 1.2, 1.3 & 011 - Emergency Generator Building						
BB1440	Works & T&C in Location 1.2					
BB1460	ELV System Installations and T&C for Contract HY2013/01					
BB1470	Provisioning of Civil Engineering Works for 011-Emergency Generator Building (KD18)					
Drainage Works						
B00040	Initial Survey					
SG2400	Drainage Works (400m & 18MHs), Stage 1 (Eastern)					
SG3610	Sewerage (90m & 2MHs), Stage 1 (Eastern)					
Waterpipe Laying						
SW2410	Fresh Water Main Laying (135m), Stage 1 (Eastern)					
SW2420	Flushing Water Main Laying (50m), Stage 1 (Eastern)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
SU5320	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
PORTION D						
Portion D Building						
114 - Field Kiosk for Access Control, Portion D						
C11360	Raft Foundation					
C11370	Superstructure (Roof Beams & Slabs)					
C11380	Finishing					
D11340	BS for Office Accommodation (Stage 8)					

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Activity Name	Apr	May	Jun	Jul	Aug
D11360 Other BS + E&M Installation					
External Works for Portion D					
Drainage Works					
SG3640 Drainage Works (361m & 14MHs)					
SG3760 Sewerage (121m & 6MHs)					
Waterpipe Laying					
SW3650 Fresh Water Main Laying (108m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting					
SU5340 Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
SU5350 Duct & Cable Laying for TCSS & Lighting					
SU5640 Access date to Telephone Companies					
Roadworks					
SR3740 Subbase (261 ton)					
SR3770 Bitumen Pavement (619 ton)					
PORTION E					
006 - Shuttle Bus Kiosk & Staff Subway Entrance, at Portion E & M					
A00630 Constructing wall stem + top slab of Subway					
A00640 Backfilling					
A00650 Constructing Ground Slab					
A00660 Constructing Kiosk (4 Nr)					
A00670 Constructing Subway Entrance					
A00690 BS + E&M for AVCSS works (KD188)					
B00640 Other BS + E&M Installation					
External Works for Portion E					
Drainage Works					
SG3780 Drainage Works (99m & 5MHs)					
SG3900 Sewerage (38m & 1 MH)					
Waterpipe Laying					
SW3790 Fresh Water Main Laying (45m)					
SW3800 Flushing Water Main Laying (25m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting					
SU5360 Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
SU5370 Duct & Cable Laying for TCSS & Lighting					
Roadworks					
SR3980 Subbase (1659 ton)					
PORTION F					
External Works for Portion F					
Drainage Works					
B00070 Initial Survey					
SG3930 Drainage Works (122m & 9MHs)					
SG4050 Sewerage (70m & 3MHs)					
Waterpipe Laying					
SW3940 Fresh Water Main Laying (205m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting					
SU5380 Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
SU5390 Duct & Cable Laying for TCSS & Lighting					
PORTION G, H1 & H2					
Portion G Structures					

◆ Access date to Telephone Companies

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Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
Box Culvert C						
SC0310	Box C - Branch Construction					
SC0320	Box C - Branch Backfilling					
SC0380	Box C - Construction of Main Body					
SC0390	Box C - Back filling					
Bridge A1						
Structure Deck						
SA1450	Falsework for Deck P101, P102					
SA1460	Deck on P101, P102 + Stressing					
SA1510	Deck on P105, A106 + Stressing					
SA1520	Parapet (42 pour), E&M works & installation of DS38 & DS39					
Bridge A2						
Structure Deck						
SA2450	Falsework for Deck P201 - P202					
SA2460	Deck on P201 & P202 + Stressing					
SA2470	Parapet (36 pour), E&M Works & Installation of DS49					
Bridge A3						
Structure Deck						
SA3460	Deck on P303, P304a/P304b + Stressing					
SA3480	Deck on P304a, A305 + Stressing					
SA3510	Parapet (56 pour), E&M Works & installation of DS51					
Bridge A4						
Structure Deck						
SA4420	Deck on P502b, P401 + Stressing					
SA4440	Deck on P401, P402 + Stressing					
SA4460	Deck on P304b, P401, P402 + Stressing					
SA4470	Parapet (35 pour), E&M Works					
Bridge A5						
Structure Deck						
SA5480	Deck on P502a, P502b & P503 + Stressing					
SA5520	Deck on P506 & P507 + Stressing					
SA5540	Deck on A501 & P502a + Stressing					
SA5550	Falsework for Deck P507 - P508a, P508b					
SA5560	Deck on P507 & P508a, P508b + Stressing					
SA5580	Parapet (65 pour), E&M Works installation of ADS 304A					
Bridge A6						
Structure Deck						
SA6480	Deck on P604, P605 + Stressing					
SA6530	Deck on P606 & A607 + Stressing					
SA6540	Parapet (50 pour) & E&M Works					
Bridge A7a, A7b, A7c						
Structure Deck						
SA7790	Deck on P703, P704 (Bridge A7a) + Stressing					
SA7820	Deck on P702, P703 (Bridge A7 a) + Stressing					
SA7830	Falsework for Deck A701, P702					
SA7840	Deck on A701, P702 (Bridge A7a) + Stressing					
SA7940	Parapet for Bridge A7b (8 pour) & E&M Works					
SA7950	Parapet for Bridge A7c (38 pour) & E&M Works					
SA7960	Parapet for Bridge A7a (48 pour) & E&M Works					

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SA7980	Bituminous Paving for A7c (400 ton)(KD25)					
SA7990	Bituminous Paving for A7a (400 ton) (KD25)					
Bridge A8						
Structure Deck						
SA8460	Deck on P803, A804 + Stressing					
SA8470	Parapet (26 Pour) & E&M works					
Retaining Walls W1-1, W3-1, W5-1 & W7-1						
Retaining Wall W1-1						
SW1110	Construction of Retaining Wall W1-1 (L-shape, 4 bays)					
SW1120	Retaining Wall W1-1 Backfilling					
Retaining Wall W3-1						
SW3150	Construction of Retaining Wall W3-1 (U-shape, 4 bays)					
SW3160	Backfilling W3-1					
Retaining Wall W5-1						
SW5010	Construction of Retaining Wall W5-1 (L-shape, 5 bays)					
Retaining Wall W7-1						
SW7110	Construction of Retaining Wall W7-1 (U-shape, 4 bays)					
Portion G Buildings						
002 - C&ED Observation Guard Booth No. 1, Portion H1						
C00220	Excavation + Blinding					
C00230	Raft Foundation					
C00240	Superstructure					
002 - C&ED Observation Guard Booth No. 2, Portion H1						
E00210	Excavation + Blinding					
E00220	Raft Foundation					
E00230	Superstructure					
003 Inbound Private Car Exam Building						
A00330	Finishing					
A00360	External Works					
A00370	BS for Office Accommodation (Stage 8)					
A00380	BS + E&M for Office Accommodation (Stage 9)					
A00390	Other BS + E&M Installation					
C00310	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
Glass Canopy Installation						
B00305	Fabrication of Glass Canopy					
B00360	Steel Frame Installation					
Aluminium Metal Canopy						
B00315	Fabrication of F/C System					
B00320	Casted-in Items Installation					
B00330	Steel Frame Installation					
B00340	Aluminium Cladding Installation					
004 Satellite RCP South						
A003450	Finishing					
A003460	BS for Office Accommodation (Stage 8)					
A003470	BS + E&M for Office Accommodation (Stage 9)					
A003480	Other BS + E&M Installation					
Test & Commission						
C003420	Submission & Issue of WW046 IV, V (Inside Services & FS)					
C003430	Form 314 & 501 submission					
C003440	T&C for BS & Pumps					

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◆ Form 314 & 501 submission

█ Actual Work
█ Remaining Work
█ Critical
◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

2017
02-May-17

Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
C03450	WSD Inspection					
C03460	FSD Inspection					
C03470	OP Application & TPIDC Inspection					
S S Facade Greenery System						
B03415	Fabrication of SS F/G System					
B03420	Casted-in Items Installation					
B03430	Steel Frame Installation					
005 - Sewage Pumping Station, Portion G						
A03590	Water-tightness Test for Wet Wells					
B03540	Constructing Basement Wall & G/F Slab					
B03550	Water-tightness Test for Inlet Chamber					
B03560	Superstructure works					
B03570	Backfilling					
B03580	BS for Office Accommodations (KD9)					
B03590	BS + E&M for Office Accommodation (KD10)					
B03510	Other BS + E & M Installation					
Test & Commission						
C03530	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
C03550	Form 314 & 501 submission					
051 Transformers (Zone 5)						
A05150	Finishing					
A05165	Energisation by CLP					
A05170	BS for Office Accommodations (KD9)					
A05180	BS + E&M for Office Accommodation (KD10)					
A05190	Other BS + E & M Installation					
T&C and Statutory Inspection for Zone 5						
C05120	T&C for BS & Pumps					
C05130	Essential T&C (FSI)					
C05140	Non-Essential T&C (Non-FSI)					
100 Inbound Traffic Control Kiosk						
A10050	Finishing					
A10070	BS + E&M for AVCSS Works (KD18A)					
B10060	BS + E&M for AVCSS Cabling (KD18B)					
B10070	BS for Office Accommodations (KD9)					
B10090	Other BS + E & M Installation					
C10010	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
C10030	Form 314 & 501 submission					
C10040	T&C for BS & Pumps SWT					
HPL Composite Panel Cladding System						
B10015	Fabrication of F/C System					
B10020	Casted-in Items Installation					
112 Field Kiosk for Taxi Queuing Area						
A11240	Finishing					
A11250	BS + E & M Installation					
A11260	T&C for BS & Pumps SWT					
External Works for Portion G, H1 & H2						
ELV Works within Portion H2 in the Hong Kong Side PTI						
EU1550	ELV Works within Portion H2 in the Hong Kong Side PTI (KD19)					
Works within Portion H1 & H2 except the ELV Works in the Hong Kong Side PTI						
EU1560	Drainage & Sewerage Works within Portion H1 & H2 in the Hong Kong Side PTI (KD20)					

<p>THREE MONTH ROLLING PROGRAMME</p> <p>VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES</p> <p>Page 14 of 21</p>		<p>Date</p> <p>28-Feb-17</p> <p>31-Mar-17</p> <p>30-Apr-17</p>	<p>Revision</p> <p>3MRP updated as of 28 Feb. 2017</p> <p>3MRP updated as of 31 Mar. 2017</p> <p>3MRP updated as of 30 Apr. 2017</p>	<p>Checked</p> <p>ZJ</p> <p>ZJ</p> <p>ZJ</p>	<p>Approved</p>
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

02-May-17

Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
All Works within the Boundary defined in Drawing No. 60191048/C3/000/1050						
BEU1570	Drainage & Sewerage Works (incl. CLP) within the Boundary defined in Drawing No. 60191048/C3/000/1050					
BEU1580	Roadworks within the Boundary defined in Drawing No. 60191048/C3/000/1050, excluding Portion H1 & H2, & Bridges (KD24)					
Waterpipe Laying						
EW4080	Fresh Water Main Laying (1689m)					
EW4090	Flushing Water Main Laying (411m)					
Duct Laying for Utilities Telecom Cabling, TCSS & Lighting						
EU5410	Duct & Cable Laying for TCSS & Lighting					
EU5560	ELV Installation					
Roadworks						
ER4170	Subbase (17045 ton)					
ER4200	Bitumen Pavement (24549 ton)					
ER4210	Rigid Pavement (514 m ³), Footpath & EVA					
Road Furniture						
ER4150	Road Furniture					
Sign Gantry DS40, DS41 & DS75						
ES0080	Testing for Pre-bored H Piling					
ES0180	Fabrication & Delivery of Sign Gantys to Site					
Canopy and Covered Walkway						
CC1310	Shop drawing, Approved & Fabrication					
CC1320	Footing					
CC1330	Steel Frame Installation					
PORTION J						
Portion J Structure						
Bay 30 - 41 of CUE/Staff Subway (Portion J)						
B03260	Internal Finishes & Cable Containment (KD2)					
030 Outbound Private Car & GV Kiosks						
A03020	Pre-fabrication for the Steel Kiosks					
A03030	Superstructure (Incl. Entrance & Toilet)					
A03050	Finishing					
A03060	BS + E&M for AVCSS Works (KD18B)					
A03070	BS for Office Accommodations (KD9)					
A03090	Other BS + E & M Installation					
Portion J Buildings						
024 Outbound Private Car Exam Building						
A02420	Superstructure					
A02430	Finishing (KD9)					
A02440	BS for Office Accommodations (KD18F)					
A02450	BS + E&M for Office Accommodation (KD18G)					
A02460	Other BS + E & M Installation (KD31)					
Test & Commission						
D02410	Submission & Issue of IWW046 I, II, III (Inside Services & FS)					
Glass Canopy Installation						
B02415	Fabrication of F/C System					
B02420	Casted-in Items Installation					
B02430	Steel Frame Installation					
B02440	Glass Panel Installation					

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█ Actual Work
█ Remaining Work
█ Critical
◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

2017 02-May-17

Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
Aluminium Metal Canopy						
B02455	Fabrication of F/C System					
B02460	Casted-in Items Installation					
B02470	Steel Frame Installation					
B02480	Aluminium Cladding Installation (KD31)					
031 Outbound IMMD and DOH Secondary Screen Building						
A03140	Superstructure					
A03150	Finishing (KD31)					
A03160	BS for Office Accommodations (KD18F)					
A03170	BS + E&M for Office Accommodation (KD18G)					
A03180	Other BS + E & M Installation (KD31)					
Test & Commission						
C03120	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
C03170	T&C for BS & Pumps					
060 - Single Storey Support Building Associated with Buildings 044 & 045						
A06025	Finishing					
A06050	Superstructure (other than transformer room) Construction					
A06055	Energisation by CLP					
A06060	BS for Office Accommodation (Stage 10) (KD11)					
A06080	Other BS + E&M Installation					
T&C and Statutory Inspection for Zone 3a						
B06020	BEE0 Stage II & Accessory Certification Submission					
B06030	T&C for BS & Pumps					
B06060	Essential T&C (FSI)					
B06070	Non-Essential T&C (Non-FSI)					
B06080	OP Application & TP/IDC Inspection					
Waterworks Ordinance (WSD)						
G06020	Submission of WW046 - Part I & II (Inside Services)					
DG License & EPD Generator Approval						
G06000	DG Application					
061 Telecom Building						
A06150	Finishing (KD9)					
A06160	BS for Office Accommodations (KD9)					
A06170	BS + E&M for Office Accommodation (KD10)					
A06180	Other BS + E & M Installation					
Aluminium Metal Canopy						
B06115	Fabrication of Aluminium Cladding					
B06120	Casted-in Items Installation					
B06130	Steel Frame Installation					
B06140	Aluminium Cladding Installation					
101 Outbound Traffic Control Kiosk						
A10130	Superstructure (Roof Beams & Slabs)					
A10140	Finishing					
A10150	BS + E&M for AVCSS Works (KD18A)					
A10160	BS + E&M for AVCSS Cabling (KD18B)					
A10170	BS for Office Accommodations (KD9)					
A10180	BS + E&M for Office Accommodation (KD10)					
A10190	Other BS + E & M Installation					
C10110	Submission of WW046 - Part I & II (Inside Services)					
HPL Composite Panel Cladding System						

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█ Actual Work
█ Remaining Work
█ Critical
◆ Milestone

Contract No.: HY2013/03

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

02-May-17

Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
B10110	Shop Drawing Submission and Approval					
B10120	Fabrication of HPL Cladding					
B10130	Casted-in Items Installation					
205 - Outbound Private Car Mobile X-ray Operation Area						
ER5780	Radiation Screen Wall Construction					
ER5800	Construction of the Area and Access to the Interface Contractor					
External Works for Portion J						
<i>Works in Location 1.7B</i>						
EU1500	ELV Works & T&C in Location 1.7B					
<i>Works in Location 1.7C</i>						
EU1530	ELV Works & T&C in Location 1.7C					
Drainage Works						
ED4220	Drainage Works (1700m & 86MHs), Stage 1					
ED4340	Sewerage (425m & 11MHs), Stage 1					
ED5710	Drainage Works (1697m & 85MHs), Stage 2					
ED5720	Sewerage (425m & 12MHs), Stage 2					
Waterpipe Laying						
EW4230	Fresh Water Main Laying (1541m)					
EW4240	Flushing Water Main Laying (862m)					
SW9290	Chilled Water Pipe Laying in Portion C (external)					
Duct Laying for Utilities: Telecom Cabling, TCSS & Lighting						
EU5570	ELV Installation					
Roadworks						
ER4320	Subbase (15400 ton), Stage 1					
ER4350	Bitumen Pavement (20000 ton), Stage 1					
ER4360	Rigid Pavement (173 m ³), Footpath & EVA, Stage 1					
Sign Gantry DS104						
ES0140	Sign Gantry DS104 P-bored Piling, 8 Nr.					
ES5130	Testing for P-bored Piles					
ES5150	Fabrication & Delivery of Sign Gantrys to Site					
PORTION K, L, M, S & T						
Portion K Building						
002 - C&ED Observation Guard Booth No. 1, Portion K						
A00210	Excavation + Blinding					
A00220	Raft Foundation					
A00230	Superstructure					
002 - C&ED Observation Guard Booth No. 2, Portion K						
B00210	Excavation + Blinding					
B00220	Raft Foundation					
B00230	Superstructure					
Portion M Buildings						
108 - C&ED Mobile X-ray Operation Office, Portion M						
B10800	Excavation + Blinding					
B10810	Substructure (raft Foundation)					
B10840	Superstructure (Roof beams & Slabs)					
B10850	Finishing					
B10860	BS for Office Accommodations (KD9)					
B10880	Other BS + E & M Installation					
HPL Composite Panel Cladding System						

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VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

- █ Actual Work
- █ Remaining Work
- █ Critical
- ◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
C10820	Fabrication of HPL Cladding					
C10830	Casted-in Items Installation					
104 DOH Screening Station - at Portion M						
C10400	Excavation + Blinding					
C10430	Structure (Raft Foundation)					
C10440	Finishing					
C10450	BS for Office Accommodations (KD9)					
C10470	Other BS + E & M Installation					
Facade Envelop Structure Installation						
D10450	Shop Drawing Submission and Approval					
D10455	Fabrication of F/C System					
D10460	Casted-in Items Installation					
D10470	Steel Frame Installation					
203 - Outbound Coach/Shuttle Bus Exam Area & Mobile X-ray Operation Area						
ER5770	Radiation Screen Wall Construction					
External Works						
Additional Works (Filling & RE Slope), SA1						
ED3230	C1 Contractor to Completed cooling mains at east Portion (Stage 2)					
ED3232	C2 provide permanent access to platform at Portion K					
ED3234	Removal of temp. access					
ED3310	C1 Contractor to Complete Footbridge Supports at the South Portion					
ED3320	Fill Platform from +1.5PD to near PCB (South)					
ED3330	Add surcharge to Platform at +14.5mPD near PCB (South)					
ED3340	Consolidation of fill at the Platform (South)					
ED3410	C2 Contractor to complete abutment at the North (2 nos.)					
ED3420	Fill Slope around C2 abutments					
Construction of Slopes						
ED3520	Construct RE slope (West)					
ED3540	Complete planter wall					
ED3550	Construction of fill slope (North)					
Drainage Works						
ED4370	Drainage Works (1477m & 81MHs), Stage 1 (Eastern)					
ED4490	Sewerage (78m & 2MHs), Stage 1 (Eastern)					
ED5730	Drainage Works (1477m & 80MHs), Stage 2 (Western)					
ED5740	Sewerage (78m & 3MHs), Stage 2 (Western)					
Waterpipe Laying						
EW4380	Fresh Water Main Laying (608m), Stage 1 (Eastern)					
EW4390	Flushing Water Main Laying (13m), Stage 1 (Eastern)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5450	Duct & Cable Laying for TCSS & Lighting					
Roadworks						
ER4470	Subbase (4600 ton), Stage 1 (Eastern)					
ER4500	Bitumen Pavement (4500 ton), Stage 1 (Eastern)					
ER4510	Rigid Pavement (750 m3) & Footpath, Stage 1 (Eastern)					
Canopy and Covered Walkway						
CC1400	Shop drawing, Approved & Fabrication					
CC1410	Footing					
PORTION N						
Portion N Structure						

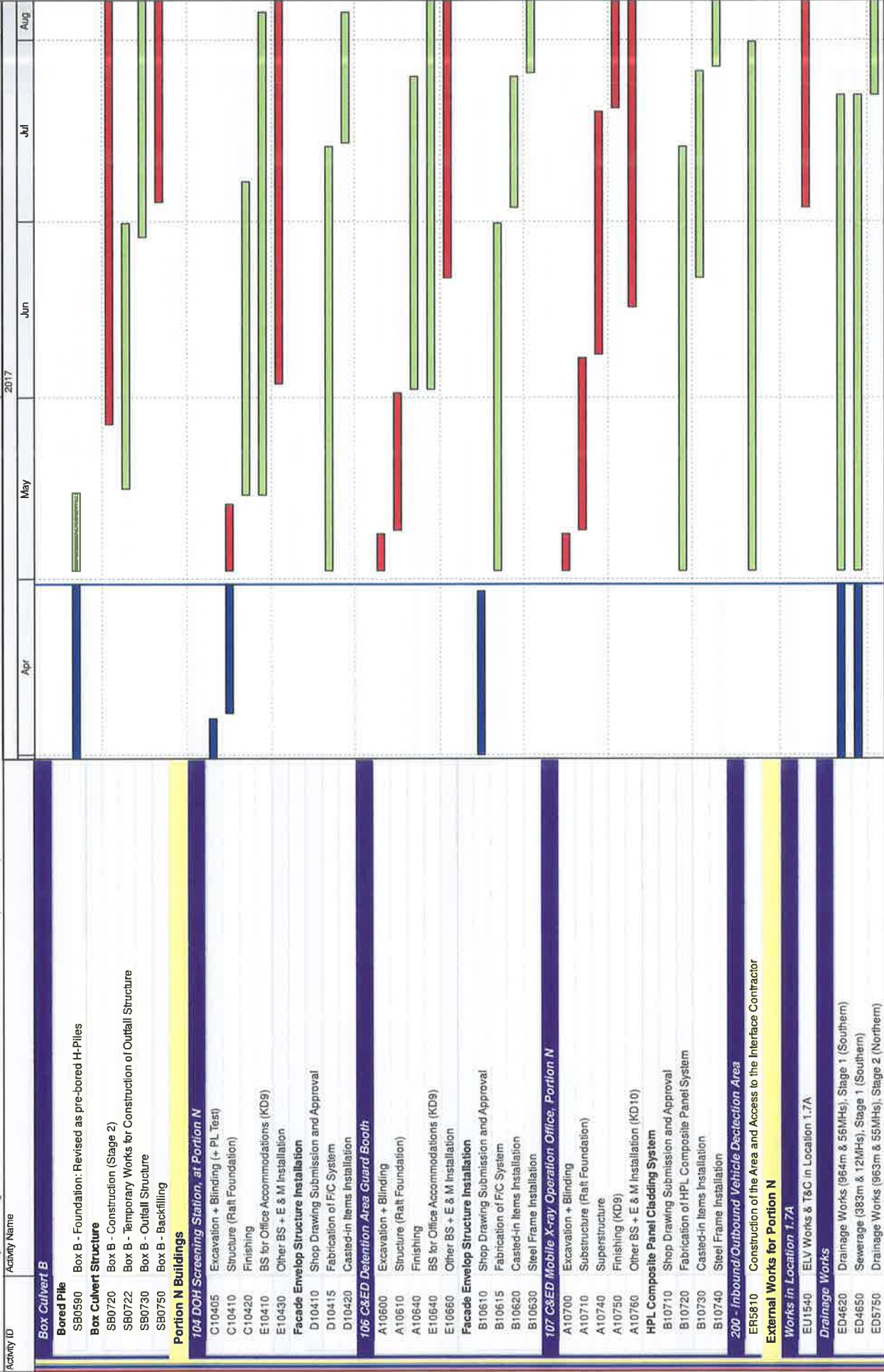
<p>Actual Work</p> <p>Remaining Work</p> <p>Critical</p> <p>Milestone</p>	<p>28-Feb-17</p> <p>31-Mar-17</p> <p>30-Apr-17</p>	<p>3MRP updated as of 28 Feb. 2017</p> <p>3MRP updated as of 31 Mar. 2017</p> <p>3MRP updated as of 30 Apr. 2017</p>	<p>Revision</p> <p>ZJ</p> <p>ZJ</p> <p>ZJ</p>	<p>Checked</p> <p>ZJ</p> <p>ZJ</p> <p>ZJ</p>	<p>Approved</p>
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VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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Activity ID	Activity Name	2017	Apr	May	Jun	Jul	Aug
Box Culvert B							
SB0590	Box B - Foundation: Revised as pre-bored H-Piles						
Box Culvert Structure							
SB0720	Box B - Construction (Stage 2)						
SB0722	Box B - Temporary Works for Construction of Outfall Structure						
SB0730	Box B - Outfall Structure						
SB0750	Box B - Backfilling						
Portion N Buildings							
104 DOH Screening Station, at Portion N							
C10405	Excavation + Blinding (+ PL Test)						
C10410	Structure (Raft Foundation)						
C10420	Finishing						
E10410	BS for Office Accommodations (KD9)						
E10430	Other BS + E & M Installation						
Facade Envelop Structure Installation							
D10410	Shop Drawing Submission and Approval						
D10415	Fabrication of FC System						
D10420	Casted-in Items Installation						
106 C&ED Detention Area Guard Booth							
A10600	Excavation + Blinding						
A10610	Structure (Raft Foundation)						
A10640	Finishing						
E10640	BS for Office Accommodations (KD9)						
E10660	Other BS + E & M Installation						
Facade Envelop Structure Installation							
B10610	Shop Drawing Submission and Approval						
B10615	Fabrication of FC System						
B10620	Casted-in Items Installation						
B10630	Steel Frame Installation						
107 C&ED Mobile X-ray Operation Office, Portion N							
A10700	Excavation + Blinding						
A10710	Substructure (Raft Foundation)						
A10740	Superstructure						
A10750	Finishing (KD9)						
A10760	Other BS + E & M Installation (KD10)						
HPL Composite Panel Cladding System							
B10710	Shop Drawing Submission and Approval						
B10720	Fabrication of HPL Composite Panel System						
B10730	Casted-in Items Installation						
B10740	Steel Frame Installation						
200 - Inbound/Outbound Vehicle Detection Area							
ER5810	Construction of the Area and Access to the Interface Contractor						
External Works for Portion N							
Works in Location 1.7A							
EU1540	ELV Works & T&C in Location 1.7A						
Drainage Works							
ED4620	Drainage Works (964m & 55MHs), Stage 1 (Southern)						
ED4650	Sewerage (383m & 12MHs), Stage 1 (Southern)						
ED5750	Drainage Works (963m & 55MHs), Stage 2 (Northern)						

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Activity ID	Activity Name	Apr	May	Jun	Jul	Aug
ED5760	Sewerage (383m & 12MHs), Stage 2 (Northern)					
Waterpipe Laying						
EW4530	Fresh Water Main Laying (641m)					
EW4540	Flushing Water Main Laying (413m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5460	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5470	Duct & Cable Laying for TCSS & Lighting					
Roadworks						
ER4620	Subbase (6475 ton)					
ER4650	Bitumen Pavement (10144ton)					
ER4660	Rigid Pavement (183 m3), Footpath & EVA					
PORTION P						
Portion Structure						
Retaining Wall RW1						
RW1110	Construction of Retaining Wall RW1 (U-shape, 5 bays)					
Portion P Buildings						
165 IMMD Guard Booth, Portion P						
A10510	Excavation + Blinding					
A10520	Substructure (Raft Foundation)					
A10530	On Grade Ground Slab					
A10540	Finishing					
E10500	BS for Office Accommodations (KD9)					
E10510	BS + E&M for Office Accommodation (KD10)					
E10520	Other BS + E & M Installation					
Facade Envelop Structure Installation						
A10560	Shop Drawing Submission and Approval					
A10565	Fabrication of F/C System					
A10570	Cased-in Items Installation					
A10580	Steel Frame Installation					
External Works for Portion P						
Drainage Works						
AS0160	Initial Survey					
ED4670	Drainage Works (2957m & 128MHs)					
ED4790	Sewerage (259m & 7MHs)					
Waterpipe Laying						
EW4680	Fresh Water Main Laying (1270m)					
EW4690	Flushing Water Main Laying (455m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5480	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
Roadworks						
ER4770	Subbase (16519 ton)					
ER4800	Bitumen Pavement (23958 ton)					
ER4810	Rigid Pavement (220 m3), Footpath & EVA					
PORTION Q						
External Works for Portion Q						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
ED5570	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
ED5580	Duct & Cable Laying for TCSS & Lighting					
EU1490	ELV System Installation for Contract HY/2013/04					

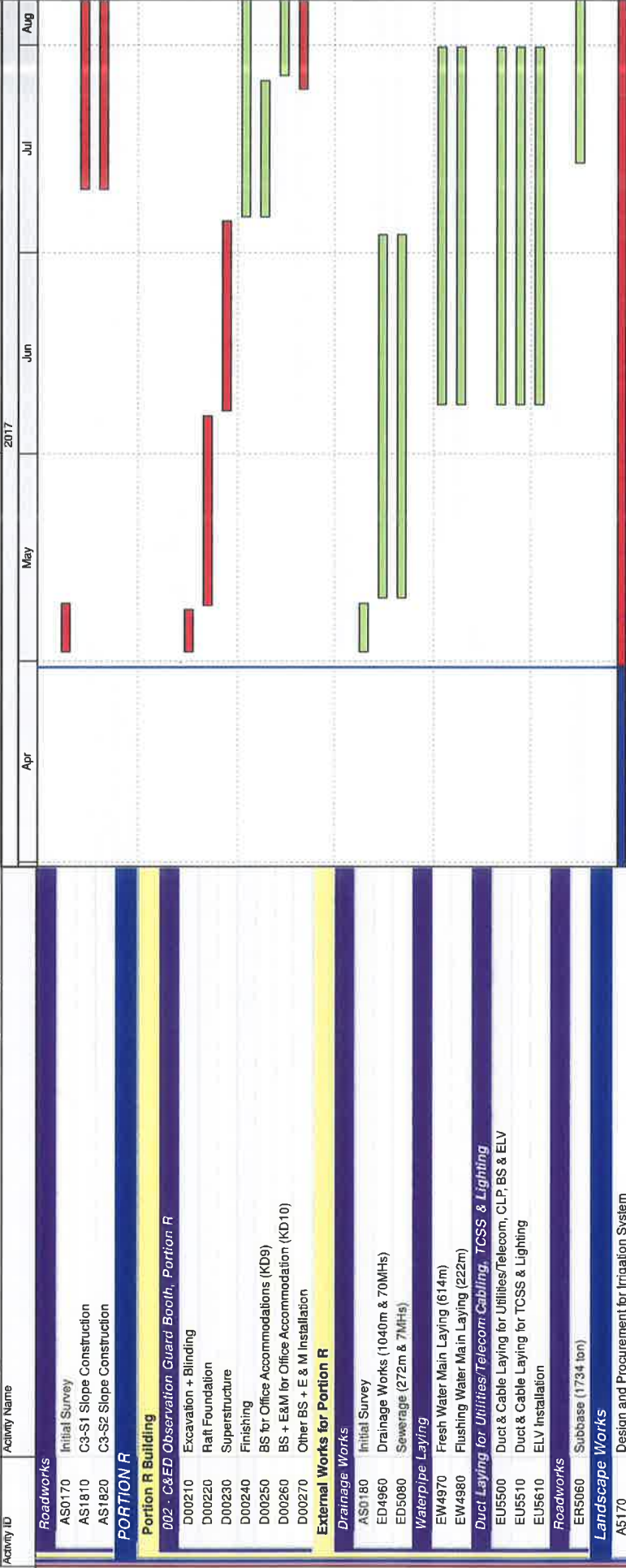
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VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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- Critical
- Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

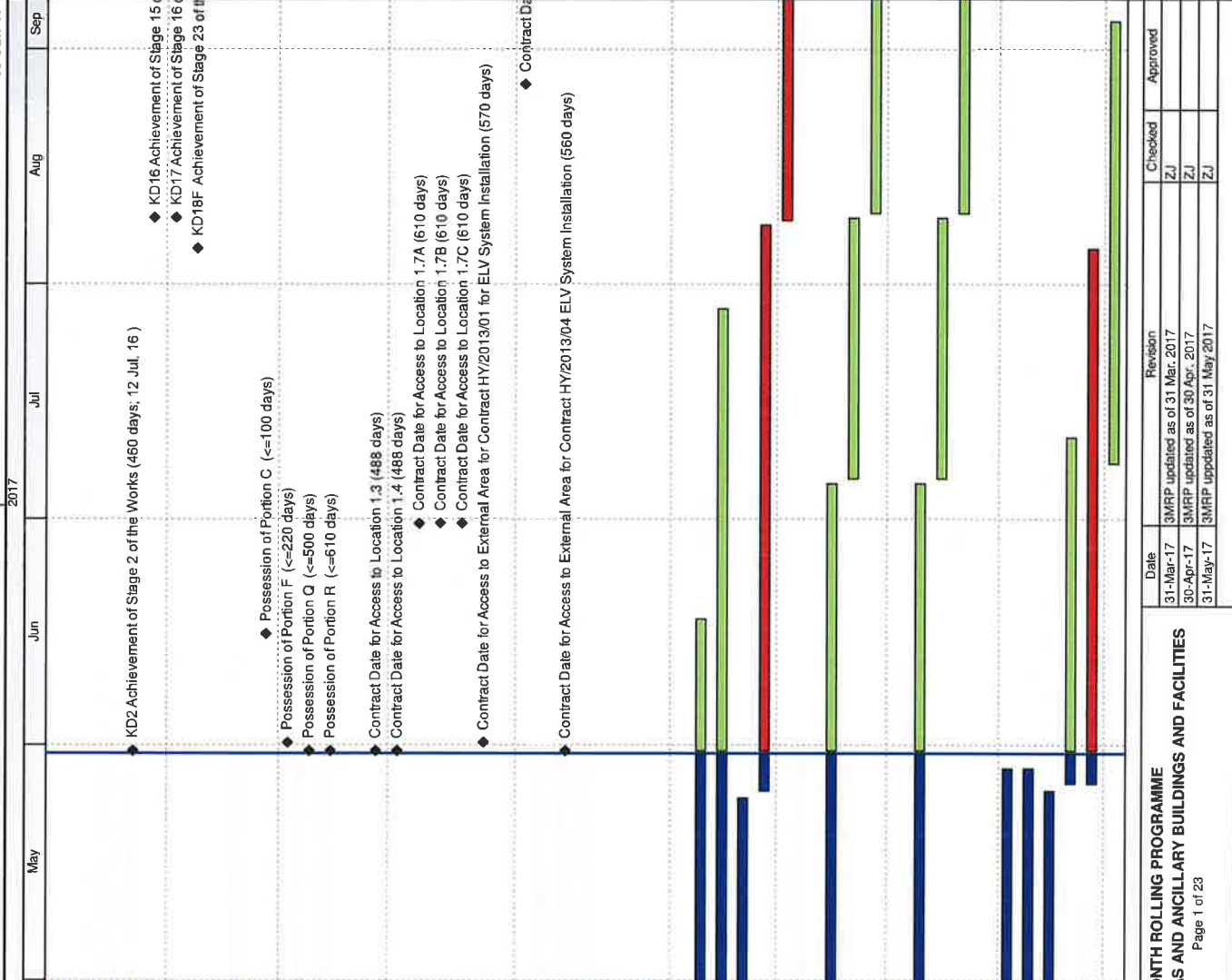
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Activity Name	Date	Revision	Checked	Approved
AS170	28-Feb-17	3MRP updated as of 28 Feb. 2017	ZJ	
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities



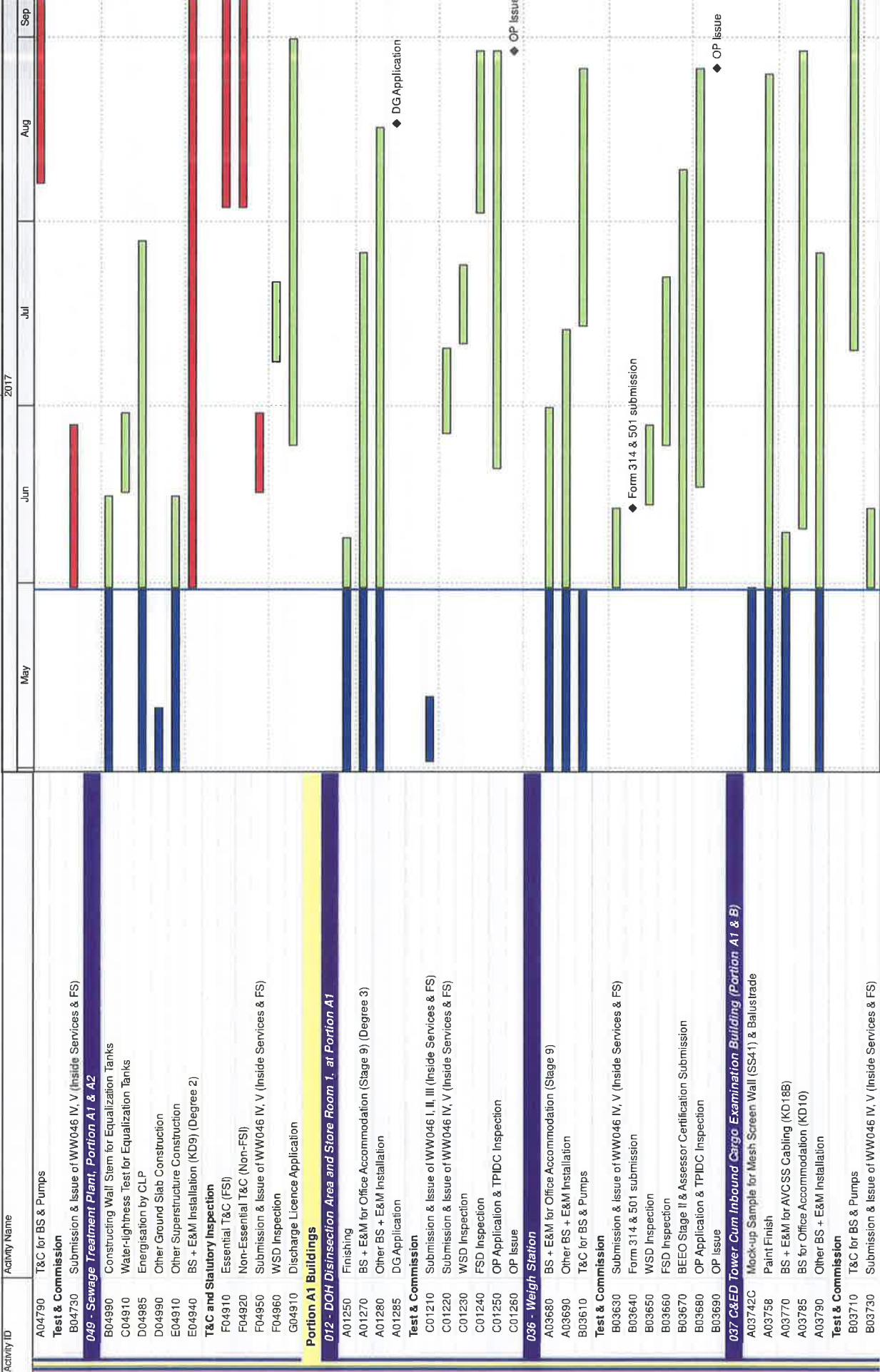
Activity Name	May	Jun	Jul	Aug	Sep
CONTRACT DATES					
Key Dates					
A1020	KD2 Achievement of Stage 2 of the Works (460 days; 12 Jul. 16)				
A1160	KD16 Achievement of Stage 15 of the Works (548 days; 08 Oct. 16)				
A1170	KD17 Achievement of Stage 16 of the Works (548 days; 08 Oct. 16)				
A1180F	KD18F Achievement of Stage 23 of the Works (730 days; 08 Apr. 17)				
Site Access & Possession					
Possession of Portion of Site					
A0040	Possession of Portion C (<=100 days)				
A0070	Possession of Portion F (<=220 days)				
A0170	Possession of Portion Q (<=500 days)				
A0180	Possession of Portion R (<=610 days)				
Access to Locations of the Site					
A0230	Contract Date for Access to Location 1.3 (488 days)				
A0240	Contract Date for Access to Location 1.4 (488 days)				
A0280	Contract Date for Access to Location 1.7A (610 days)				
A0290	Contract Date for Access to Location 1.7B (610 days)				
A0300	Contract Date for Access to Location 1.7C (610 days)				
A0330	Contract Date for Access to External Area for Contract HY/2013/01 for ELV System Installation (570 days)				
A0340	Contract Date for Access to External Area for Contract HY/2013/02 for ELV System Installation (560 days)				
A0350	Contract Date for Access to External Area for Contract HY/2013/04 ELV System Installation (560 days)				
PORTION A1					
Portion A1 Structures					
Bridge A9					
Structure Deck					
SA9420	Deck on P904, P903 + Stressing				
SA9440	Deck on P903 & P902 + Stressing				
SA9450	Falsework for Deck P902 - A901				
SA9460	Deck on P902 & A901 + Stressing				
SA9470	Parapet (38 pour) & E&M Works				
Retaining Wall W8-1					
SW8120	Backfilling W8-1				
SW8130	Parapet W8-1 (16 pour) & E&M Works				
SW8140	RW8-1 Drainage system & Cable Laying				
Retaining Wall W9-1					
SW9120	Backfilling W9-1				
SW9130	Parapet W9-1 (16 pour) & E&M Works				
SW9140	Drainage System & Cable Laying				
047 - Fresh Water Pumping Station, Portion A1 & A2					
A04740	Water Tank Construction				
A04750	Pump House Construction				
A04752	Water-tightness Test for Water Tank				
A04760	Parapet Wall at Roof Slab				
A04770	BS installation + E&M (Degree 2)				
A04780	BS installation + E&M (Degree 3)				

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VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

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31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	
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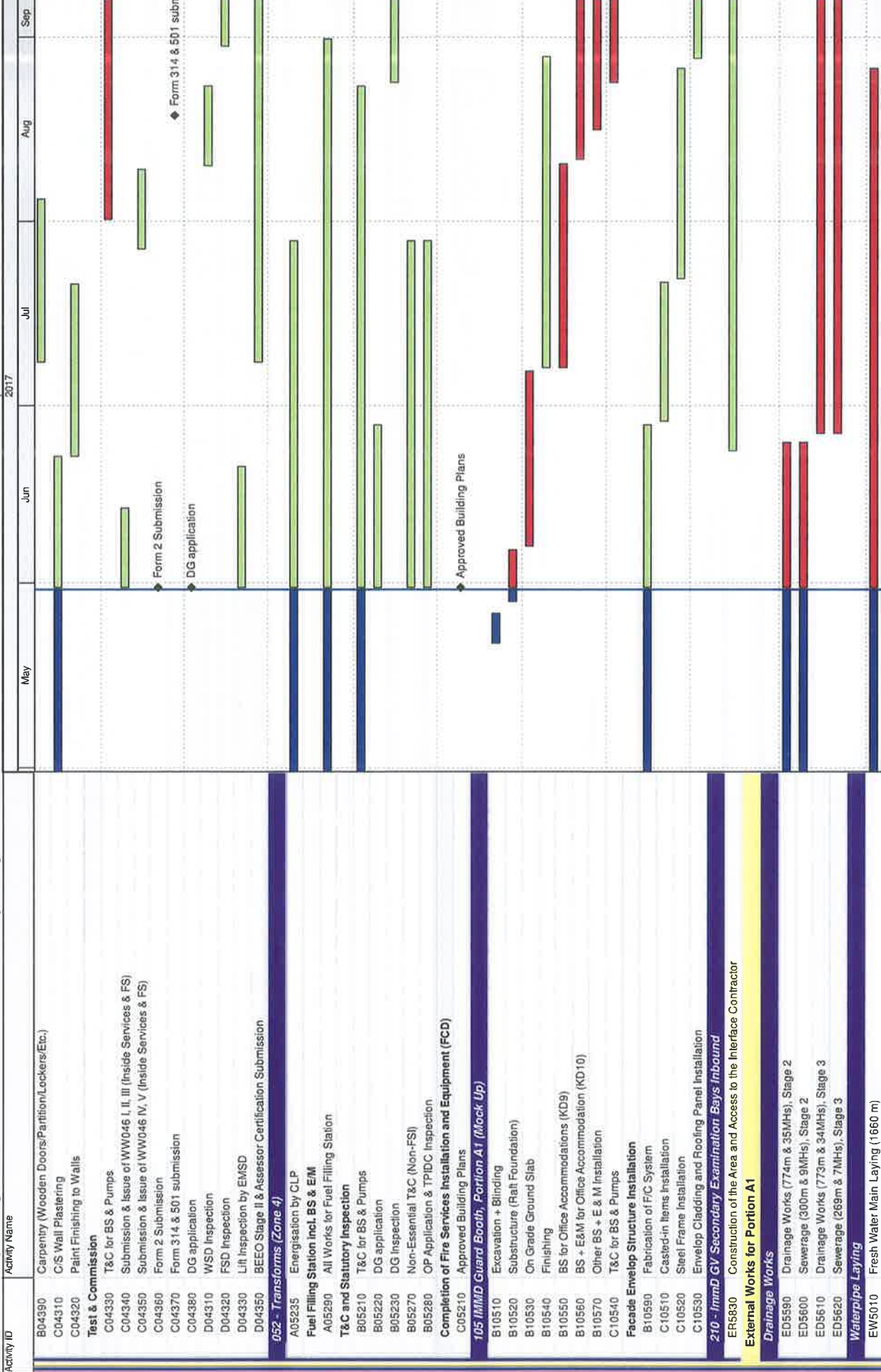
Activity ID	Activity Name	May	Jun	Jul	Aug	Sep
B03740	Form LE5 Submission to EMSD					
B03750	Form 314 & 501 submission				◆ Form LE5 Submission to EMSD	
B03760	Lift Inspection by EMSD				◆ Form 314 & 501 submission	
B03770	WSD Inspection					
B03780	FSD Inspection					
B03790	Beam Plus Monthly Submission & Issue					
C03710	BEEO Stage II & Assessor Certification Submission					
C03720	OP Application & TPIDC Inspection					
041 Fire Station Cum Ambulance Depot						
A04133	Wall Plastering/Wall Tiling					
A04134	Floor Screeding/Tiling/Vinyl Tiles					
A04137	False Ceiling Installation					
A04140	BS for Office Accommodation (Stage 8), Degree 2					
A04150	BS + E&M for Office Accommodation (Stage 9), Degree 3					
A04160	Other BS + E&M Installation					
A04170	External Finishing					
A04180	C/S Plastering/Tiling					
A04190	Cater Equipment Installation					
Fuel Filling Station incl. BS & E/M						
B04100	All Works for Fuel Filling Station					
Test & Commission						
B04110	T&C for BS & Pumps					
B04120	Submission & Issue of WW046 I, II, III (Inside services & FS)					
B04130	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B04140	Form 314 & 501 submission					
B04150	Form LE5 Submission to EMSD					
B04160	DG application					
B04170	WSD Inspection					
B04180	FSD Inspection					
C04130	Beam Plus Monthly Submission & Issue					
C04140	BEEO Stage II & Assessor Certification Submission					
042 Drill Tower						
A04260	Finishing					
A04280	BS + E&M for Office Accommodation (Stage 9)					
A04290	Other BS + E&M Installation					
Test & Commission						
B04210	BEEO Stage II & Assessor Certification Submission					
B04220	T&C for BS Pumps					
B04230	WSD Inspection					
B04240	FSD Inspection					
B04250	OP Application & TPIDC Inspection					
043 DOH Office + Store Room						
A04370	Gladding & Curtain Wall Installation (incl. steel & metal works)					
A04390	BS + E&M for Office Accommodation (Stage 9)					
B04310	Other BS + E&M Installation					
B04330	Stainless Steel Mesh Installation					
B04340	Metal Windows/Louvers/Doors/Railing etc. installation					
B04360	Wall Plastering/Tiling					
B04370	Floor Screeding/Tiling					
B04380	False Ceiling Installation & Painting					

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█ Actual Work
█ Remaining Work
█ Critical
◆ Milestone

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Activity Name

Activity ID	Activity Name	2017	May	Jun	Jul	Aug	Sep
EW6010	Flushing Water Main Laying (967 m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5260	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
EU5270	Duct & Cable Laying for TCSS & Lighting						
Roadworks							
ER1520	Subbase (8500 ton), Stage 1 (Western)						
ER3540	Bitumen Pavement (10000 ton), Stage 1 (Western)						
ER3550	Rigid Pavement (900 m3), Footpath & EVA, Stage 1 (Western)						
ER5530	Subbase (8829 ton), Stage 2 (Eastern)						
Road Furniture							
ER0800	ELV Installation						
ER0830	Road Furniture						
PORTION A2							
Portion A2 Structures							
046 - Refuse Collection Point, Portion A2							
A04620	Superstructure w/2 water tank						
A04630	BS for Office Accommodations (Stage 8) (KD9)						
A04640	BS + E&M for Office Accommodations (Stage 9) (KD10)						
A04660	Other BS + E&M Installation						
Test & Commission							
B04620	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
B04650	T&C for BS & Pumps						
B04680	OP Application & TPIDC Inspection						
048 - Reclaimed Water Pumping Station, Portion A2							
B04810	Superstructure Construction						
B04820	BS for Office Accommodations (Stage 8) (KD9)						
B04830	BS + E&M for Office Accommodation (Stage 9) (KD10)						
B04840	Other BS + E&M Installation						
Test & Commission							
B04850	T&C for BS & Pumps & SWT						
B04860	DG Application						
B04880	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
B04890	Submission & Issue of WW046 IV, V (Inside Services & FS)						
Retaining Wall W9-2							
SW9210	Construction of Retaining Wall W9-2 (U-shape, 6 bay)						
SW9220	Backfilling for Retaining Wall W9-2						
External Works for Portion A2							
Drainage Works							
ED2280	Drainage Works (228m & 15MHs)						
ED3560	Sewerage (322m & 9MHs)						
Waterpipe Laying							
EW2290	Fresh Water Main Laying (236m)						
EW2300	Flushing Water Main Laying (91m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5280	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
EU5290	Duct & Cable Laying for TCSS & Lighting						
EU5620	Access date to Telephone Companies						
PORTION B							
Portion B Structures							

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Activity ID	Activity Name	2017	May	Jun	Jul	Aug	Sep
Retaining Wall W7-2							
S70890	Retaining Wall W7-2 Backfilling						
S70910	C3-S6 Slopeworks						
S70970	Retaining Wall W7-2 Parapet (2 pour) & E&M Works						
S70980	Retaining Wall W7-2 Drainage System & Cable Laying						
Retaining Wall W6-1							
S62060	Retaining Wall W6-1 Backfilling						
S62070	Retaining Wall W6-1 Parapet (8 pour) & E&M Works						
S62080	Retaining Wall W6-1 Drainage System & Cable Laying						
S62210	Retaining Wall W6-1 Bituminous Paving (347 ton) (KD25)						
Bay 25 - 29 of CUE/Staff Subway							
C02960	Internal Finishes & Cable Containment						
C02970	BS + E&M Installation for AVCSS						
Portion B Buildings							
027/028 Inbound Kiosks & 029 Outbound Kiosks							
A02720	Superstructure						
A02730	Construction of Subway Entrance						
A02740	Construction of Subway Toilets						
A02750	Finishing						
A02760	BS for Office Accommodation						
A02780	BS + E&M for AVCSS Works (KD18A)						
A02790	BS + E&M for AVCSS Cabling (KD18B)						
B02720	Other BS + E&M Installation						
Test & Commission							
B02810	T&C for BS & Pumps						
B02830	Submission & Issue of WW046 IV, V (Inside Services & FS)						
027/028 Inbound Kiosks & 029 Outbound Kiosks, Section IX, Subject to Excision							
B02750	Superstructure						
B02760	BS + E&M for AVCSS Works (KD18C)						
B02770	BS + E&M for AVCSS Works (KD18D)						
B02780	BS + E&M for allowing users to move in furniture (KD18E)						
Test & Commission							
D02730	Submission & Issue of WW046 IV, V (Inside Services & FS)						
026 Inbound MMD and DOH Secondary Screening Building							
A02640	Finishing						
A02670	BS for Office Accommodation (Stage 8)						
A02680	BS + E&M for Office Accommodation (Stage 9)						
A02690	Other BS + E&M Installation						
Test & Commission							
B02630	Submission & Issue of WW046 IV, V (Inside Services & FS)						
B02650	TC for BS & Pumps						
054 Inbound Fixed X-ray Building							
A05460	Finishing						
A05467	Energisisation by CLP						
A05480	BS + E&M for Office Accommodation (Stage 9)						
A05490	Other BS + E&M Installation						
Fuel Filling Station Incl. BS & E/M							
B05490	All Works for Fuel Filling Station						
T&C and Statutory Inspection for Zone 4a							
B05400	BEEC Stage II & Assessor Certification Submission						

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THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

- █ Actual Work
- █ Remaining Work
- █ Critical
- ◆ Milestone

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Activity ID	Activity Name	May	Jun	Jul	Aug	Sep
B05420	T&C for BS & Pumps					
B05460	DG Inspection					
Completion of Fire Services Installation and Equipment (FCD)						
F05450	Application for FSI Inspection (FSI/501) c/w FSI Plan (FSI/314)					
Waterworks Ordinance (WSD)						
G05410	Approval Letter and approved Drawings					
G05430	Submission of WWO46 - Part IV (Inside Services)					
038 AFCD Office						
A03850	Finishing + Curtain Wall Installation					
A03870	BS for Office Accommodation (Stage 8)					
A03880	BS + E&M for Office Accommodation (Stage 9)					
A03890	Other BS + E&M Installation					
Test & Commission						
B03810	T&C for BS & Pumps					
B03830	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
B03880	Form 314 & 501 submission					
C03820	Form 2 Submission					
C03830	Lift Inspection by EMSD					
C03850	FSD Inspection					
C03860	BEE0 Stage II & Assessor Certification Submission					
039 Police Main Building						
A03940	Finishing + Curtain Wall Installation					
A03950	BS for Office Accommodation (Stage 8), & for TCSS works (KD14)					
A03960	BS + E&M for Office Accommodation (Stage 9)					
Fuel Filling Station incl. BS & E/M						
B03910	All Works for Fuel Filling Station					
Test & Commission						
B03920	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
B03930	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B03940	BEE0 Stage II & Assessor Certification Submission					
B03950	Beam Plus Monthly Submission & Issue					
C03920	DG Inspection					
C03950	Form 2 Submission					
C03970	T&C for BS & Pumps					
040 Incident Control Tower						
A04050	Finishing (KD9)					
A04060	BS for Office Accommodation (Stage 8), & for TCSS works (KD14)					
A04070	BS + E&M for Office Accommodation (Stage 9)					
Facade Cladding System						
B04040	Steel Frame Installation					
B04050	Cladding Panel Installation					
Glass Wall						
C04020	Fabrication of Glass Wall					
C04040	Steel Frame Installation					
Test & Commission						
D04010	Form 314 & 501 submission					
D04030	T&C for BS & Pumps					
D04040	Form 2 Submission					
D04050	Lift Inspection by EMSD					
102 HKPF UVSS Monitor Room						

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Activity ID	Activity Name	May	Jun	Jul	Aug	Sep
A10230	Finishing (False Ceiling) (KDS)					
A10240	BS for Office Accommodation (Stage 8)					
A10260	BS + E&M for Office Accommodation (Stage 9)					
A10270	Other BS + E&M Installation					
C10210	WVO 46 Part I, II, III Submission (inside Service + FS)					
Metal Canopy and Roof Installation						
B10230	Steel Frame Installation					
B10240	Glass panel, metal cladding panel installation					
103 Police Inspection Post						
A10350	Finishing (False Ceiling) (KDS)					
A10360	BS for Office Accommodation (Stage 8)					
A10370	BS + E&M for Office Accommodation (Stage 9)					
A10380	Other BS + E&M Installation					
C10310	T&C for BS & Pumps					
C10320	WVO 46 Part I, II, III Submission (inside Service + FS)					
C10330	WVO 46 Part IV, V Submission (inside Service + FS)					
C10340	WSD inspection					
HPL Composite Panel Cladding System						
B10320	Fabrication of HPL Cladding					
B10330	Casted-in Items Installation					
B10340	Steel Frame Installation					
B10350	HPL Cladding Panel Installation					
057 Transformers (Zone 2)						
A05740	Finishing					
A05755	Energisation by CLP					
A05770	BS + E&M for Office Accommodation (Stage 9)					
A05780	Other BS + E&M Installation					
Fuel Filling Station incl. BS & E/M						
A05790	All Works for Fuel Filling Station					
T&C and Statutory Inspection for Zone 2a & 2b						
C05700	T&C for BS & Pumps					
F05700	Essential T&C (FSI)					
F05710	Non-Essential T&C (Non-FSI)					
F05720	OP Application & TPIDC Inspection					
Completion of Fire Services Installation and Equipment (FCD)						
F05740	Provision of Approved Building Plans by the Engineer					
F05750	Application for FSI Inspection (FSI/501) c/w FSI Plan (FSI/314)					
F05760	Provision of Direct Link for Fire Alarm System by Chubb					
F05770	FSI Inspection (2 Trials)					
DG License & EPD Generator Approval						
G05710	Approval Letter and approved Drawings					
G05720	DG License Application					
107 - C&ED Mobile X-ray Operation Office (Cargo), Portion B						
C10740	Finishing					
C10750	BS for Office Accommodation (Stage 8)					
C10760	BS + E&M for Office Accommodation (Stage 9)					
C10770	Other BS + E&M Installation					
C10780	T&C for BS & Pumps					
C10790	TPIDC Inspection					
113 - Field Kiosk for Access Control, Portion B						

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Actual Work
 Remaining Work
 Critical
 Milestone

Contract No : HY20103/03

◆ Provision of Approved Building Plans by the Engineer
 ◆ Application for FSI Inspection (FSI/501) c/w FSI Plan (FSI/314)
 ◆ Provision of Direct Link for Fire Alarm System by Chubb

◆ Approval Letter and approved Drawings

◆ WVO 46 Part I, II, III Submission (inside Service + FS)

◆ WVO 46 Part IV, V Submission (inside Service + FS)

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Activity ID	Activity Name	2017	May	Jun	Jul	Aug	Sep
B11330	Superstructure (Roof Beams & Slabs)						
B11340	Finishing						
B11350	BS for Office Accommodation (Stage 8)						
B11360	BS + E&M for Office Accommodation (Stage 9)						
B11370	Other BS + E&M Installation						
B11380	T&C for BS & Pumps						
B11390	TPIDC Inspection						
201 - Inbound Cargo Mobile X-ray Operation Area							
ER5850	Construction of the Area and Access to the Interface Contractor						
205 - Inbound Private Car Mobile X-ray Operation Area							
ER5860	Construction of the Area and Access to the Interface Contractor						
External Works for Portion B							
Works in Location 1.7A							
BB1480	ELV Works & T&C in Location 1.7A						
Works in Location 1.7B							
BB1490	ELV Works & T&C in Location 1.7B						
Drainage Works							
ED5680	Drainage Works (1130m & 60MHs), Stage 4 (NE)						
ED5700	Sewerage (300m & 82MHs), Stage 4 (NE)						
Waterpipe Laying							
EW6100	Fresh Water Main Laying (1000m), Stage 3						
EW6110	Flushing Water Main Laying (931m), Stage 3						
EW6190	Chilled Water Pipe Laying in Portion B (external)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5300	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
EU5310	Duct & Cable Laying for TCSS & Lighting						
EU5550	ELV Installation						
EU5630	Access date to Telephone Companies						
Roadworks							
ER1640	Subbase (21000 ton), Stage 1						
ER3590	Bitumen Pavement (30000 ton), Stage 1						
ER3600	Rigid Pavement (1188 m3), Footpath & EVA, Stage 1						
ER5590	Subbase (22152 ton), Stage 2						
ER5600	Bitumen Pavement (31126 ton), Stage 2						
ER5610	Rigid Pavement (1188 m3), Footpath & EVA, Stage 2						
Road Furniture							
ER1620	Road Furniture						
ES5240	Sign Gantry ADS 306A & ADS 306B						
Fabrication & Delivery of Sign Gantries to Site							
PORTION C							
Portion C Buildings							
010 - Inbound Coach Kiosk & Staff Subway Entrance (Subway Deleted)							
A01020	Base Slab & Kiosk superstructure						
A01030	BS + E&M forAVCSS works (KD18A)						
B00920	Kiosk superstructure						
B00930	BS + E&M forAVCSS works (KD18A)						
B00940	BS + E&M forAVCSS Cabling (KD18B)						
B00970	BS + E&M for Office Accommodation (Stage 9) (KD10)						

◆ Access date to Telephone Companies

Actual Work	Remaining Work	Critical	Milestone
Actual Work	Remaining Work	Critical	Milestone

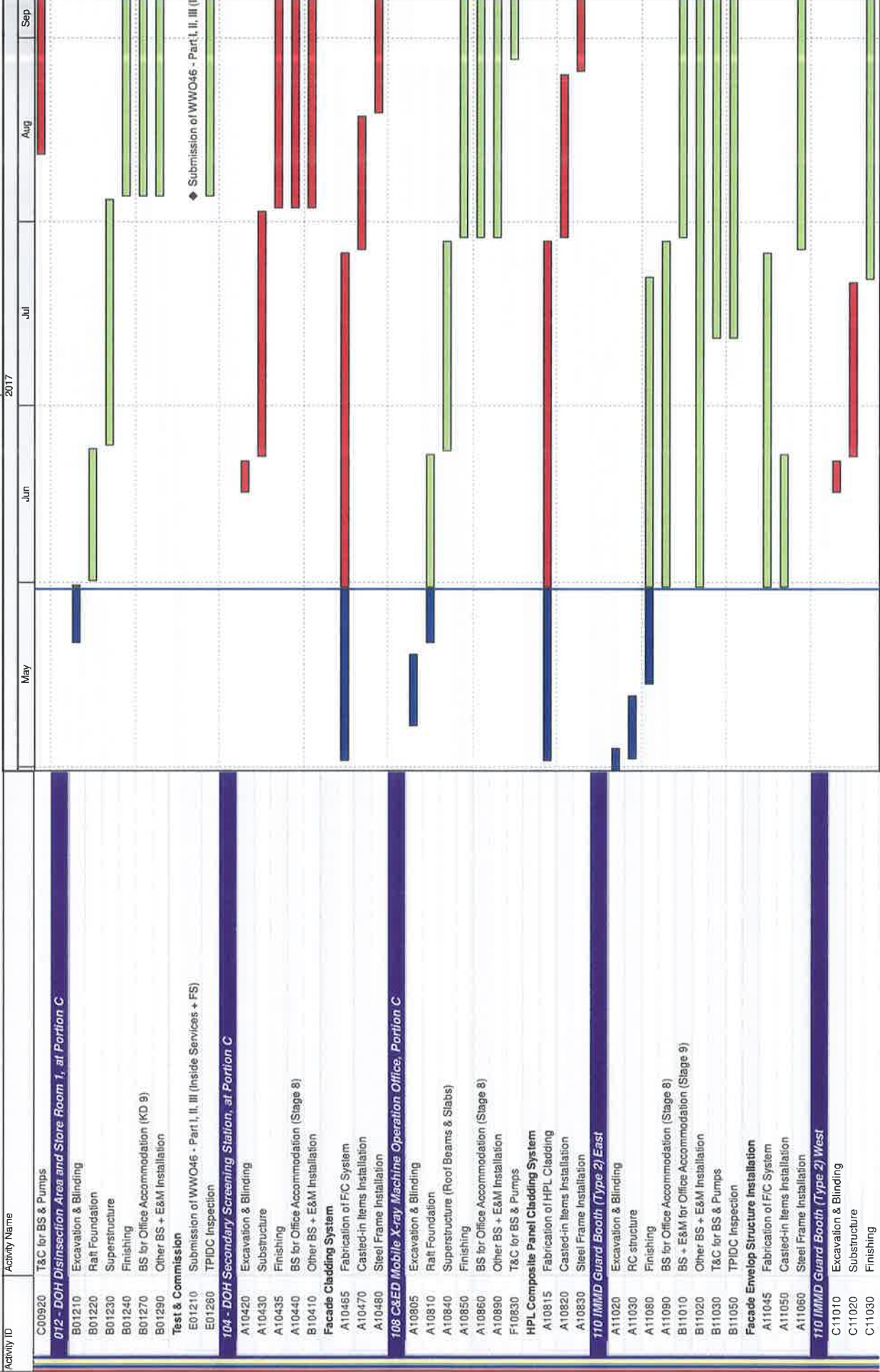
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Activity Name	May	Jun	Jul	Aug	Sep
C11040 BS for Office Accommodation					
C11060 Other BS + E&M Installation					
C11070 T&C for BS & Pumps					
Facade Envelop Structure Installation					
D11010 Casted-in Items Installation					
D11020 Steel Frame Installation					
111 Field Kiosk for Carpark Operator					
A11120 Excavation & Blinding					
A11130 Raft Foundation					
A11140 Superstructure (Roof beams & Slabs)					
A11150 Finishing					
A11160 BS for Office Accommodation (Stage 8)					
A11180 Other BS + E&M Installation					
HPL Composite Panel Cladding System					
B11120 Fabrication of HPL Cladding					
B11130 Casted-in Items Installation					
B11140 Steel Frame Installation					
113 - Field Kiosk for Access Control, Portion C					
C11310 Excavation & Blinding					
C11320 Raft Foundation					
C11330 Superstructure (Roof Beams & Slabs)					
F11310 T&C for BS & Pumps					
204 - Inbound Coach Exam Area & Mobile X-ray Operation					
ER5760 Radiation Screen Wall Construction					
ER5880 Construction of the Area and Access to the Interface Contractor					
External Works for Portion C					
Works in Location 1.2, 1.8 & 011 - Emergency Generator Building					
BB1440 Works & T&C in Location 1.2					
BB1450 Works & T&C in Location 1.8					
BB1460 ELV System Installations and T&C for Contract HY2013/01					
BB1470 Provisioning of Civil Engineering Works for 011-Emergency Generator Building (KD18)					
Drainage Works					
B00040 Initial Survey					
SG2400 Drainage Works (797m & 36MHs)					
SG3610 Sewerage (186m & 4MHs)					
Waterpipe Laying					
SW2410 Fresh Water Main Laying (272m)					
SW2420 Flushing Water Main Laying (105m)					
SW9280 Chilled Water Pipe Laying in Portion C (external)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting					
SUS320 Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
SUS330 Duct & Cable Laying for TCSS & Lighting					
SUS400 ELV Installation					
Roadworks					
SR2500 Subbase (4201 ton)					
Road Furniture					
SR2480 Road Furniture					
PORTION D					
Portion D Building					

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- █ Actual Work
- █ Remaining Work
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Activity ID	Activity Name	2017	May	Jun	Jul	Aug	Sep
114 - Field Kiosk for Access Control, Portion D							
C11360	Raft Foundation						
C11370	Superstructure (Roof Beams & Slabs)						
C11380	Finishing						
D11340	BS for Office Accommodation (Stage 8)						
D11350	BS + E&M for Office Accommodation (Stage 9)						
D11360	Other BS + E&M Installation						
F11350	T&C for BS & Pumps						
External Works for Portion D							
Drainage Works							
SG3640	Drainage Works (361m & 14MHs)						
SG3760	Sewerage (121m & 6MHs)						
Waterpipe Laying							
SW3650	Fresh Water Main Laying (108m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
B11480	ELV System Installation for Contract HY2013/02						
SUS530	Duct & Cable Laying for TCSS & Lighting						
SUS560	Access date to Telephone Companies						
Roadworks							
SR3740	Subbase (261 ton)						
SR3770	Bitumen Pavement (619 ton)						
PORTION E							
006 - Shuttle Bus Kiosk & Staff Subway Entrance, at Portion E & M							
A00630	Constructing wall stem + top slab of Subway						
A00640	Backfilling & Surcharge						
A00650	Constructing Ground Slab						
A00660	Constructing Kiosk (4 Nr.)						
A00670	Constructing Subway Entrance						
External Works for Portion E							
Drainage Works							
SG3780	Drainage Works (99m & 5MHs)						
SG3900	Sewerage (38m & 1 MH)						
Waterpipe Laying							
SW3790	Fresh Water Main Laying (45m)						
SW3800	Flushing Water Main Laying (25m)						
Roadworks							
SR3880	Subbase (1659 ton)						
SR3910	Bitumen Pavement (2105 ton)						
SR3920	Rigid Pavement (180 m3)						
PORTION F							
External Works for Portion F							
Drainage Works							
B00070	Initial Survey						
SG3930	Drainage Works (122m & 9MHs)						
SG4050	Sewerage (70m & 3MHs)						
Waterpipe Laying							
SW3940	Fresh Water Main Laying (205m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
SUS380	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						

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- █ Actual Work
- █ Remaining Work
- █ Critical
- ◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	2017					05-Jun-17
		May	Jun	Jul	Aug	Sep	
SU5390	Duct & Cable Laying for TCSS & Lighting						
SU5420	ELV Installation						
Roadworks							
SR4030	Subbase (1534 ton)						
SR4060	Bitumen Pavement (1909 ton)						
PORTION G, H1 & H2							
Portion G Structures							
Box Culvert C							
Box Culvert Structure							
SC0310	Box C - Branch Construction						
SC0320	Box C - Branch Backfilling						
SC0360	Box C - Construction of Main Body						
SC0390	Box C - Back filling						
Bridge A1							
Structure Deck							
SA1460	Deck on P101, P102 + Stressing						
SA1520	Parapet (42 pour), E&M works & installation of DS38 & DS39						
Bridge A2							
Structure Deck							
SA2460	Deck on P201 & P202 + Stressing						
Bridge A3							
Structure Deck							
SA3510	Parapet (56 pour), E&M Works & installation of DS51						
Bridge A4							
Structure Deck							
SA4420	Deck on P502b, P401 + Stressing						
SA4440	Deck on P401, P402 + Stressing						
SA4460	Deck on P304b, P401, P402 + Stressing						
SA4470	Parapet (35 pour), E&M Works						
Bridge A5							
Structure Deck							
SA5480	Deck on P502a, P502b & P503 + Stressing						
SA5540	Deck on A501 & P502a + Stressing						
SA5550	Falsework for Deck P507 - P508a, P508b						
SA5560	Deck on P507 & P508a, P508b + Stressing						
SA5570	MJ Installation (KD16 & KD17)						
SA5580	Parapet (65 pour), E&M Works installation of ADS 304A						
Bridge A6							
Structure Deck							
SA6540	Parapet (50 pour) & E&M Works						
Bridge A7a, A7b, A7c							
Structure Deck							
SA7840	Deck on A701, P702 (Bridge A7a) + Stressing						
SA7940	Parapet for Bridge A7b (8 pour) & E&M Works						
SA7950	Parapet for Bridge A7c (38 pour) & E&M Works						
SA7960	Parapet for Bridge A7a (48 pour) & E&M Works						
SA7980	Bituminous Paving for A7c (400 ton)(KD25)						
SA7990	Bituminous Paving for A7a (400 ton) (KD25)						
Bridge A8							

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Activity ID	Activity Name	2017	May	Jun	Jul	Aug	Sep
Structure Deck							
SA8470	Parapet (25 Pour) & E&M works						
Retaining Walls W1-1, W3-1, W5-1 & W7-1							
Retaining Wall W1-1							
SW1110	Construction of Retaining Wall W1-1 (L-shape, 4 bays)						
SW1120	Retaining Wall W1-1 Backfilling						
SW1122	Slope C3-S3 Construction						
Retaining Wall W3-1							
SW3150	Construction of Retaining Wall W3-1 (U-shape, 4 bays)						
SW3160	Backfilling W3-1						
SW3165	Slope C3-S4 Construction						
Retaining Wall W5-1							
SW5010	Construction of Retaining Wall W5-1 (L-shape, 3 bays)						
Retaining Wall W7-1							
SW7110	Construction of Retaining Wall W7-1 (U-shape, 4 bays)						
Portion G Buildings							
002 - C&ED Observation Guard Booth No. 1, Portion H1							
C00220	Excavation + Blinding						
C00230	Raft Foundation						
C00240	Superstructure						
002 - C&ED Observation Guard Booth No. 2, Portion H1							
E00210	Excavation + Blinding						
E00220	Raft Foundation						
E00230	Superstructure						
033 Inbound Private Car Exam Building							
A03330	Finishing						
A03360	External Works						
A03370	BS for Office Accommodation (Stage 8)						
A03380	BS + E&M for Office Accommodation (Stage 9)						
A03390	Other BS + E&M Installation						
C03310	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
C03330	BEE0 Stage II & Assessor Certification Submission						
C03360	T&C for BS & Pumps						
C03390	OP Application & TPIDC Inspection						
Glass Canopy Installation							
B03305	Fabrication of Glass Canopy						
B03360	Steel Frame Installation						
B03370	Glass Panel Installation						
Aluminium Metal Canopy							
B03330	Steel Frame Installation						
B03340	Aluminium Cladding Installation						
034 Satellite RCP South							
A03450	Finishing						
A03470	BS + E&M for Office Accommodation (Stage 9)						
A03480	Other BS + E&M Installation						
Test & Commission							
C03420	Submission & Issue of WW046 IV, V (Inside Services & FS)						
C03430	Form 314 & 501 submission						
C03440	T&C for BS & Pumps						
C03450	WSD Inspection						

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Activity ID	Activity Name	2017				05-Jun-17
		May	Jun	Jul	Aug	
C03460	FSD Inspection					
C03470	OP Application & TPIDC Inspection					
SS Facade Greenery System						
B03415	Fabrication of SS F/G System					
B03430	Steel Frame Installation					
035 - Sewage Pumping Station, Portion G						
A03590	Water-tightness Test for Wet Wells					
B03550	Water-tightness Test for Inlet Chamber					
B03560	Superstructure works					
B03570	Backfilling					
B03580	BS for Office Accommodations (KD9)					
B03590	BS + E&M for Office Accommodation (KD10)					
C03510	Other BS + E & M Installation					
Test & Commission						
C03530	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
C03550	Form 314 & 501 submission					
C03560	T&C for BS & Pumps SWT					
C03590	OP Application & TPIDC Inspection					
051 Transformers (Zone 5)						
A05150	Finishing					
A05165	Energyisation by CLP					
A05180	BS + E&M for Office Accommodation (KD10)					
A05190	Other BS + E & M Installation					
T&C and Statutory Inspection for Zone 5						
C05120	T&C for BS & Pumps					
C05130	Essential T&C (FSI)					
C05140	Non-Essential T&C (Non-FSI)					
100 Inbound Traffic Control Kiosk						
A10050	Finishing					
A10070	BS + E&M for AVCSS Works (KD18A)					
B10060	BS + E&M for AVCSS Cabling (KD18B)					
B10070	BS for Office Accommodations (KD9)					
B10090	Other BS + E & M Installation					
C10010	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
C10030	Form 314 & 501 submission					
C10040	T&C for BS & Pumps SWT					
HPL Composite Panel Cladding System						
B10015	Fabrication of FC System					
B10020	Casted-in Items Installation					
B10030	Steel Frame Installation					
112 Field Kiosk for Taxi Queuing Area						
A11240	Finishing					
A11250	BS + E & M Installation					
A11260	T&C for BS & Pumps SWT					
External Works for Portion G, H1 & H2						
ELV Works within Portion H2 in the Hong Kong Side PTI						
EUI550	ELV Works within Portion H2 in the Hong Kong Side PTI (KD19)					
Works within Portion H1 & H2 except the ELV Works in the Hong Kong Side PTI						
EUI560	Drainage & Sewerage Works within Portion H1 & H2 in the Hong Kong Side PTI (KD20)					
All Works within the Boundary defined in Drawing No. 60191048 C3.000.C00.1050						

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█ Remaining Work
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◆ Milestone

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Activity ID	Activity Name	2017				
		May	Jun	Jul	Aug	Sep
BEU1570	Drainage & Sewerage Works (incl. CLP) within the Boundary defined in Drawing No. 60191048/C3/000/1050					
BEU1580	Roadworks within the Boundary defined in Drawing No. 60191048/C3/000/1050, excluding Portion H1 & H2 & Bridges (KD24)					
Drainage Works						
ED4070	Drainage Works (6954m & 393MHs)					
ED4190	Sewerage (437m & 12MHs)					
Waterpipe Laying						
EW4080	Fresh Water Main Laying (1689m)					
EW4090	Flushing Water Main Laying (411m)					
Duct Laying for Utilities: Telecom Cabling, TCSS & Lighting						
EU5410	Duct & Cable Laying for TCSS & Lighting					
EU5560	ELV Installation					
Roadworks						
ER4170	Subbase (17045 ton)					
ER4200	Bitumen Pavement (24549 ton)					
ER4210	Rigid Pavement (514 m3), Footpath & EVA					
Road Furniture						
ER4150	Road Furniture					
Sign Gantry DS40, DS41 & DS75						
ES0180	Fabrication & Delivery of Sign Gantries to Site					
ES0190	Erection of Sign Gantry					
Canopy and Covered Walkway						
CC1320	Footing					
CC1330	Steel Frame Installation					
PORTION J						
Portion J Structure						
Bay 30 - 41 of CUE/Staff Subway (Portion J)						
B03260	Internal Finishes & Cable Containment (KD2)					
B03270	BS + E&M Installation for AVCSS (Stage 2) (KD2)					
030 Outbound Private Car & GV Kiosks						
A03020	Pre-fabrication for the Steel Kiosks					
A03030	Superstructure (Incl. Entrance & Toilet)					
A03050	Finishing					
A03060	BS + E&M for AVCSS Works (KD18B)					
A03070	BS for Office Accommodations (KD9)					
A03090	Other BS + E & M Installation					
030 Outbound Kiosks, Section IX, Subject to Excision						
C03020	Pre-fabrication for the Steel Kiosks					
C03030	Superstructure					
C03040	BS + E&M for AVCSS Works (KD18C) & Finishing					
Portion J Buildings						
024 Outbound Private Car Exam Building						
A02440	BS for Office Accommodations (KD18F)					
A02450	BS + E&M for Office Accommodation (KD18G)					
A02460	Other BS + E & M Installation (KD31)					
Test & Commission						
D02410	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
D02460	T&C for BS & Pumps					

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Activity ID	Activity Name	2017					05-Jun-17
		May	Jun	Jul	Aug	Sep	
Glass Canopy Installation							
B02415	Fabrication of FC System						
B02430	Steel Frame Installation						
B02440	Glass Panel Installation						
Aluminium Metal Canopy							
B02455	Fabrication of FC System						
B02470	Steel Frame Installation						
B02480	Aluminium Cladding Installation (KD31)						
031 Outbound IIMD and DOH Secondary Screen Building							
A03160	BS for Office Accommodations (KD18F)						
A03170	BS + E&M for Office Accommodation (KD18G)						
A03180	Other BS + E & M Installation (KD31)						
Test & Commission							
C03120	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
C03170	T&C for BS & Pumps						
060 - Single Storey Support Building Associated with Buildings 044 & 045							
A06025	Finishing						
A06055	Energisation by CLP						
A06060	BS for Office Accommodation (Stage 10) (KD11)						
A06080	Other BS + E&M Installation						
Fuel Filling Station incl. BS & E/M							
A06090	All Works for Fuel Filling Station						
T&C and Statutory Inspection for Zone 3a							
B06020	BEE0 Stage II & Assessor Certification Submission						
B06030	T&C for BS & Pumps						
B06060	Essential T&C (FSI)						
B06070	Non-Essential T&C (Non-FSI)						
B06080	OP Application & TPIDC Inspection						
Completion of Fire Services Installation and Equipment (FCD)							
F06050	Application for FSI Inspection (FSI/501) c/w FSI Plan (FSI/314)						
Waterworks Ordinance (WSD)							
G06020	Submission of WW046 - Part I & II (Inside Services)						
DG License & EPD Generator Approval							
G06000	DG Application						
061 Telecom Building							
A06150	Finishing (KD9)						
A06160	BS for Office Accommodations (KD9)						
A06170	BS + E&M for Office Accommodation (KD10)						
A06180	Other BS + E & M Installation						
A06190	T&C for BS						
Aluminium Metal Canopy							
B06130	Steel Frame Installation						
B06140	Aluminium Cladding Installation						
101 Outbound Traffic Control Kiosk							
A10140	Finishing						
A10150	BS + E&M for AVCSS Works (KD18A)						
A10160	BS + E&M for AVCSS Cabling (KD18B)						
A10170	BS for Office Accommodations (KD9)						
A10180	BS + E&M for Office Accommodation (KD10)						
A10190	Other BS + E & M Installation						

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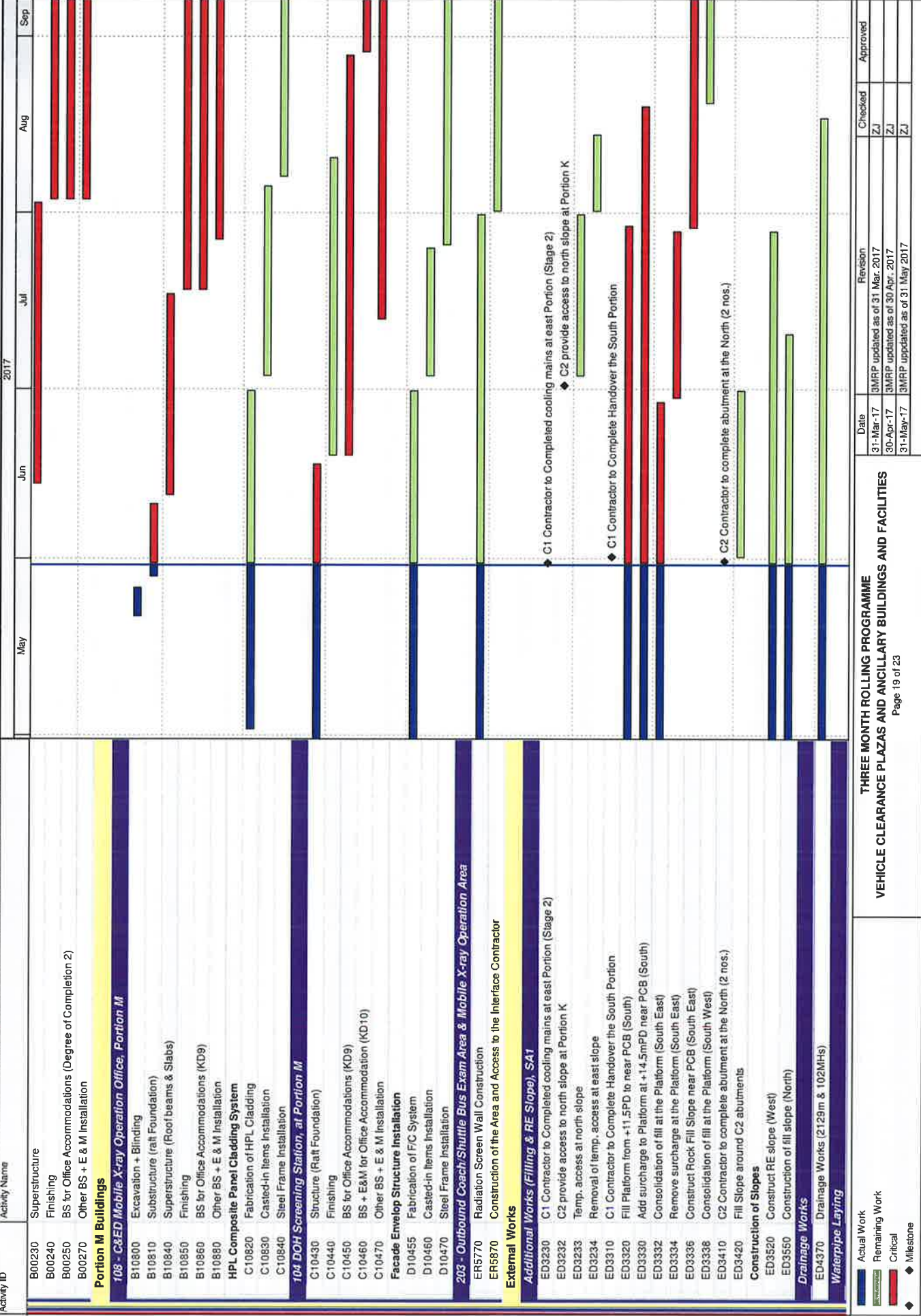
Activity ID	Activity Name	2017	May	Jun	Jul	Aug	Sep
C10110	Submission of WWO46 - Part I & II (Inside Services)						
C10120	Submission of WWO46 - Part IV (Inside Services)						
HPL Composite Panel Cladding System							
B10120	Fabrication of HPL Cladding						
B10140	Steel Frame Installation						
206 - Outbound Private Car Mobile X-ray Operation Area							
ER5780	Radiation Screen Wall Construction						
ER5800	Construction of the Area and Access to the Interface Contractor						
External Works for Portion J							
Works in Location 1.7B							
EU1500	ELV Works & T&C in Location 1.7B						
Works in Location 1.7C							
EU1530	ELV Works & T&C in Location 1.7C						
Drainage Works							
ED4220	Drainage Works (1700m & 66MHs), Stage 1						
ED4340	Sewerage (425m & 11MHs), Stage 1						
ED5710	Drainage Works (1697m & 65MHs), Stage 2						
ED5720	Sewerage (425m & 12MHs), Stage 2						
Waterpipe Laying							
EW4230	Fresh Water Main Laying (1541m)						
EW4240	Flushing Water Main Laying (662m)						
SW9290	Chilled Water Pipe Laying in Portion J (external)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5420	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
EU5430	Duct & Cable Laying for TCSS & Lighting						
EU5570	ELV Installation						
Roadworks							
ER4320	Subbase (15400 ton), Stage 1 (Northern)						
ER4350	Bitumen Pavement (20000 ton), Stage 1 (Northern)						
ER4360	Rigid Pavement (173 m3), Footpath & EVA, Stage 1 (Northern)						
ER5680	Subbase (15409 ton), Stage 2 (Southern)						
Road Furniture							
ER4300	Road Furniture (KD25)						
Sign Gantry DS104							
ES5130	Testing for P-bored Piles						
ES5150	Fabrication & Delivery of Sign Gantries to Site						
ES5160	Erection of Sign Gantry						
PORTION K, L, M, S & T							
Portion K Building							
002 - C&ED Observation Guard Booth No. 1, Portion K							
A00210	Excavation + Blinding						
A00220	Raft Foundation						
A00230	Superstructure						
A00240	Finishing						
A00250	BS for Office Accommodations (Degree of Completion 2)						
A00270	Other BS + E & M Installation						
002 - C&ED Observation Guard Booth No. 2, Portion K							
B00210	Excavation + Blinding						
B00220	Raft Foundation						

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

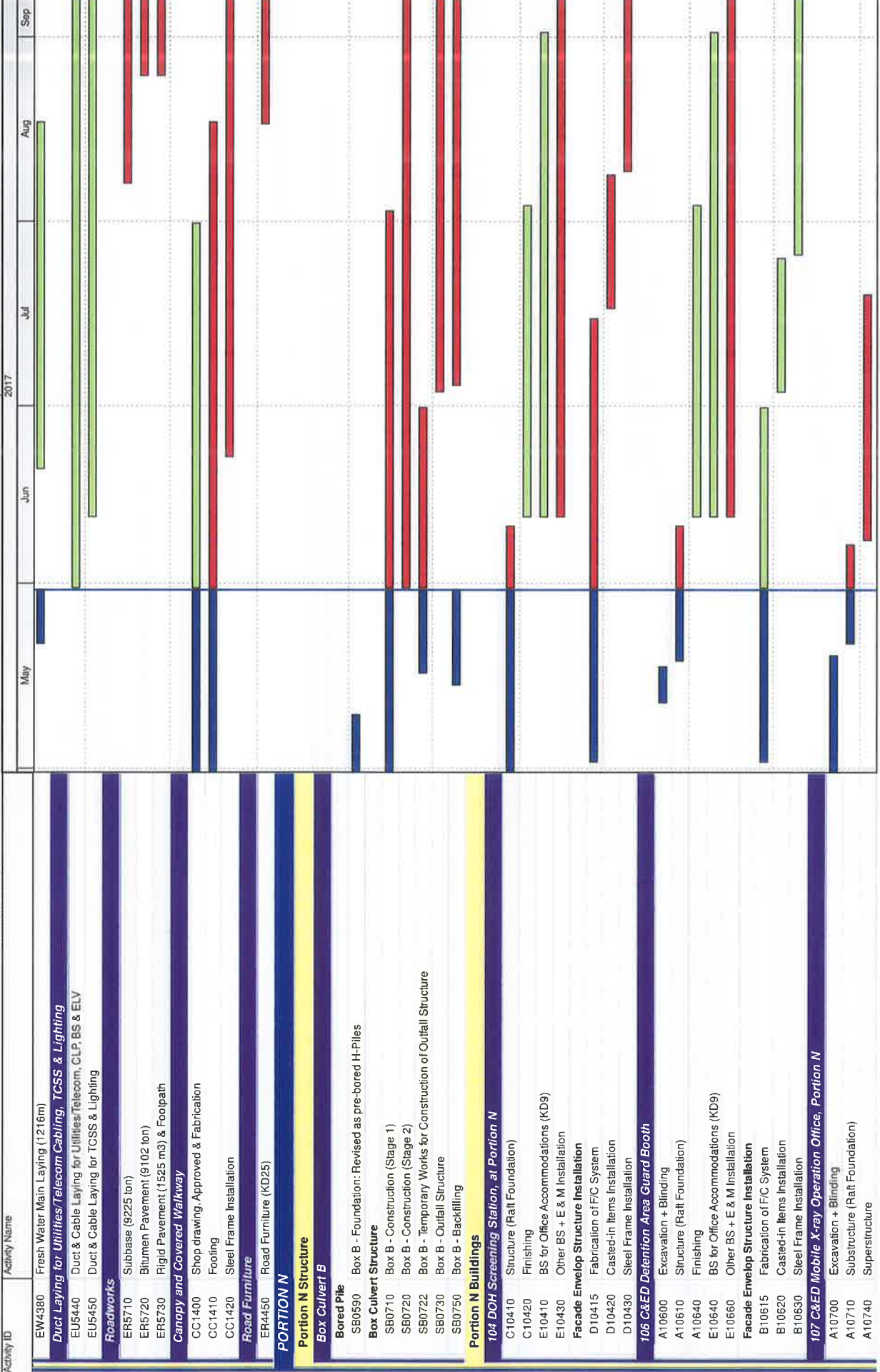


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Activity ID Activity Name 2017 05-Jun-17

Activity ID	Activity Name	May	Jun	Jul	Aug	Sep
A10750	Finishing (KD9)					
A10760	Other BS + E & M Installation (KD10)					
HPL Composite Panel Cladding System						
B10720	Fabrication of HPL Composite Panel System					
B10730	Casted-in Items Installation					
B10740	Steel Frame Installation					
200 - Inbound/Outbound Vehicle Detection Area						
ER5810	Construction of the Area and Access to the Interface Contractor					
202 - Outbound Cargo Mobile X-ray Operation Area						
ER5790	Radiation Screen Wall Construction					
ER5820	Construction of the Area and Access to the Interface Contractor					
211 - ImmD GV Secondary Examination Bays Outbound						
ER5840	Construction of the Bays and Access to the Interface Contractor					
External Works for Portion N						
Works in Location 1.7A						
EU1540	ELV Works & T&C in Location 1.7A					
Drainage Works						
ED4620	Drainage Works (964m & 56M(Hs), Stage 1 (Southern))					
ED4650	Sewerage (383m & 12M(Hs), Stage 1 (Southern))					
ED5750	Drainage Works (963m & 55M(Hs), Stage 2 (Northern))					
ED5760	Sewerage (383m & 12M(Hs), Stage 2 (Northern))					
Waterpipe Laying						
EW4530	Fresh Water Main Laying (641m)					
EW4540	Flushing Water Main Laying (413m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5460	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5470	Duct & Cable Laying for TCSS & Lighting					
Roadworks						
ER4620	Subbase (6475 ton)					
ER4650	Bitumen Pavement (1,014,440m ²)					
ER4660	Rigid Pavement (183 m ³), Footpath & EVA					
Road Furniture						
ER4600	Road Furniture (KD25)					
PORTION P						
Portion Structure						
Retaining Wall RW1						
RW1110	Construction of Retaining Wall RW1 (U-shape, 5 bays)					
RW1140	Backfilling RW1					
Portion P Buildings						
105 IMM D Guard Booth, Portion P						
A10510	Excavation + Blinding					
A10520	Substructure (Raft Foundation)					
A10530	On Grade Ground Slab					
A10540	Finishing					
A10500	BS for Office Accommodations (KD9)					
E10510	BS + E&M for Office Accommodation (KD10)					
E10520	Other BS + E & M Installation					
Facade Envelop Structure Installation						
A10560	Shop Drawing Submission and Approval					

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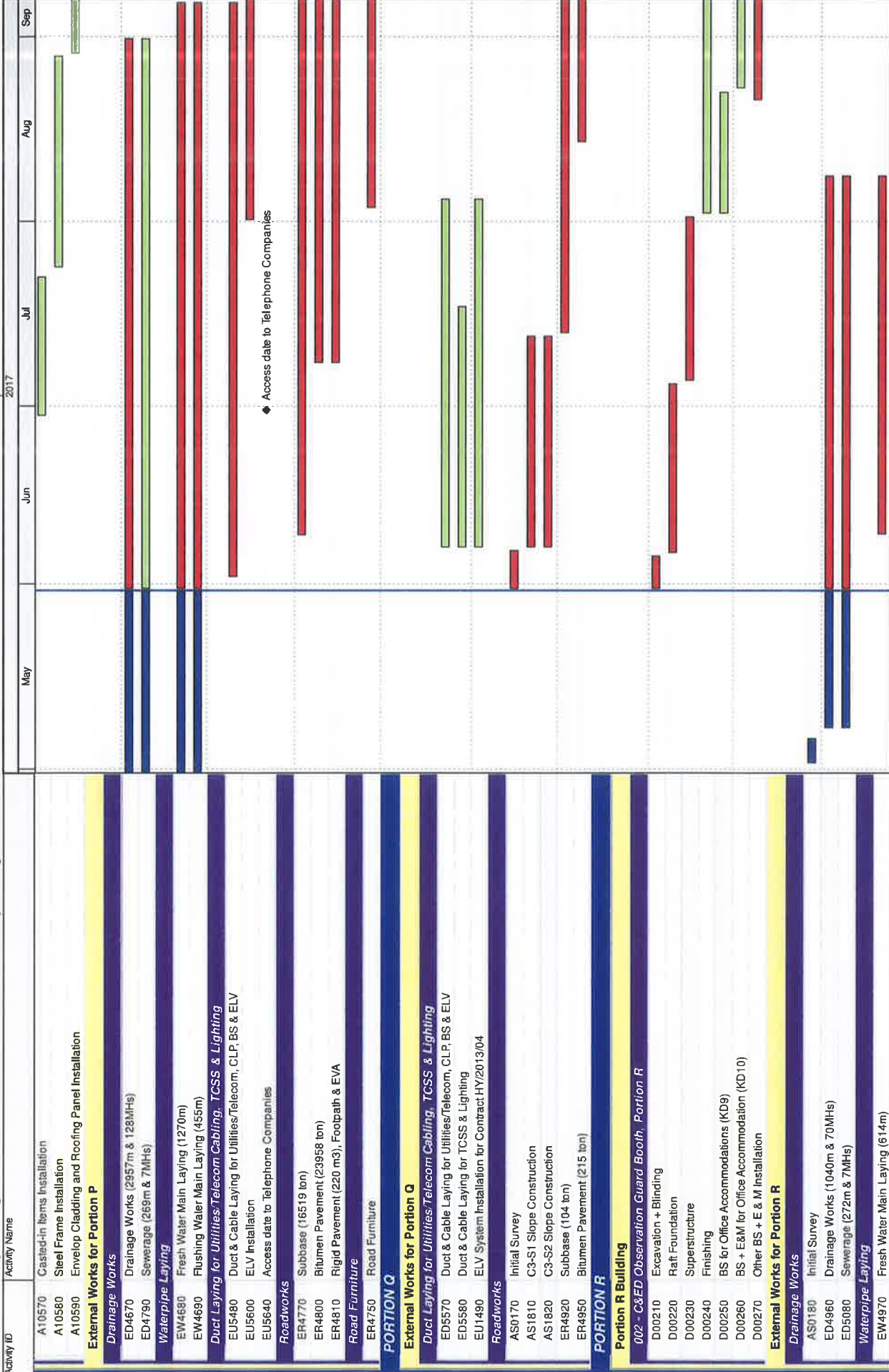
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30-Apr-17	3MRP updated as of 30 Apr. 2017	ZJ	
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THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	2017				05-Jun-17
		May	Jun	Jul	Aug	
EW4980	Flushing Water Main Laying (222m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5500	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5510	Duct & Cable Laying for TCSS & Lighting					
Roadworks						
ER5060	Subbase (1734 ton)					
Landscape Works						
A5170	Design and Procurement for Irrigation System					
A5190	All landscape Soft & Hard Works					

■ Actual Work
■ Remaining Work
■ Critical
◆ Milestone

THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	
30-Apr-17	3MRP updated as of 30 Apr. 2017	ZJ	
31-May-17	3MRP updated as of 31 May 2017	ZJ	

Activity ID	Activity Name	2015			2016			2017			2018			2019		
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Key Dates																
A1000	Acceptance of Contract															
A1010	Commencement of Works															
A1020	Exclusion of Phase 2 (Section II & III)															
A1120	KD1 (Phase 1 / Section I) (28 Kiosks)															
A1470	KD2 (Phase 2 / Section II) (2 Kiosks)															
A1480	KD3 (Phase 2 / Section III) (42 Kiosks)															
Interface Activities																
A6860	Interface Management Plan Submission between C6 and C1															
A6865	Interface Management Plan between C6 and C1 reviewed by Engineer															
A6870	Detailed Interface Document Submission between C6 and C1															
A6875	Detailed Interface Document between C6 and C1 reviewed by Engineer															
A6880	Interface Management Plan Submission between C6 and C3															
A6885	Interface Management Plan between C6 and C3 reviewed by Engineer															
A6890	Detailed Interface Document Submission between C6 and C3															
A6895	Detailed Interface Document between C6 and C3 reviewed by Engineer															
A6900	Interface Management Plan Submission between C6 and C8															
A6905	Interface Management Plan between C6 and C8 reviewed by Engineer															
A6910	Detailed Interface Document Submission between C6 and C8															
A6915	Detailed Interface Document between C6 and C8 reviewed by Engineer															
Site and Facility Inspection																
A4730	Pre Site and Facility Inspection by Contractor at Location 1 - Deg1															
A4740	Joint Site and Facility Inspection with Interface Contractor at Location 1 - Deg1															
A4760	Pre Site and Facility Inspection by Contractor at Location 2 - Deg1															
A4770	Joint Site and Facility Inspection with Interface Contractor at Location 2 - Deg1															
A4772	Pre Site and Facility Inspection by Contractor at Location 2 - Deg2															
A4774	Joint Site and Facility Inspection with Interface Contractor at Location 2 - Deg2															
A4775	Joint Site and Facility Inspection with Interface Contractor at Location 2 for Server Installation															
A4780	Pre Site and Facility Inspection by Contractor at Location 3 - Deg1															
A4790	Joint Site and Facility Inspection with Interface Contractor at Location 3 - Deg1															
A4800	Pre Site and Facility Inspection by Contractor at Location 3 - Deg2															
A4810	Joint Site and Facility Inspection with Interface Contractor at Location 3 - Deg2															
A4820	Pre Site and Facility Inspection by Contractor at Location 3a - Deg1															
A4830	Joint Site and Facility Inspection with Interface Contractor at Location 3a - Deg1															
A4840	Pre Site and Facility Inspection by Contractor at Location 3a - Deg2															
A4850	Joint Site and Facility Inspection with Interface Contractor at Location 3a - Deg2															
A4851	Joint Site and Facility Inspection with Interface Contractor at Location 3a for Server Installation															
A4860	Pre Site and Facility Inspection by Contractor at Location 4 - Deg1															
A4870	Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg1															
A4880	Pre Site and Facility Inspection by Contractor at Location 4 - Deg2															
A4890	Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg2															
A4891	Pre Site and Facility Inspection by Contractor at Location 4a - Deg1															

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Actual Level of Effort
 Actual Work
 Remaining Work
 Critical Remaining Work
 Milestone
 summary

Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)

Date	Revision	Checked	Approved
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Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing

Key Dates

- A1000 Acceptance of Contract
- A1010 Commencement of Works
- A1020 Exclusion of Phase 2 (Section II & III)
- A1120 KD1 (Phase 1 / Section I) (28 Kiosks)
- A1470 KD2 (Phase 2 / Section II) (2 Kiosks)
- A1480 KD3 (Phase 2 / Section III) (42 Kiosks)

Interface Activities

- A6860 Interface Management Plan Submission between C6 and C1
- A6865 Interface Management Plan between C6 and C1 reviewed by Engineer
- A6870 Detailed Interface Document Submission between C6 and C1
- A6875 Detailed Interface Document between C6 and C1 reviewed by Engineer
- A6880 Interface Management Plan Submission between C6 and C3
- A6885 Interface Management Plan between C6 and C3 reviewed by Engineer
- A6890 Detailed Interface Document Submission between C6 and C3
- A6895 Detailed Interface Document between C6 and C3 reviewed by Engineer
- A6900 Interface Management Plan Submission between C6 and C8
- A6905 Interface Management Plan between C6 and C8 reviewed by Engineer
- A6910 Detailed Interface Document Submission between C6 and C8
- A6915 Detailed Interface Document between C6 and C8 reviewed by Engineer

Site and Facility Inspection

- A4730 Pre Site and Facility Inspection by Contractor at Location 1 - Deg1
- A4740 Joint Site and Facility Inspection with Interface Contractor at Location 1 - Deg1
- A4760 Pre Site and Facility Inspection by Contractor at Location 2 - Deg1
- A4770 Joint Site and Facility Inspection with Interface Contractor at Location 2 - Deg1
- A4772 Pre Site and Facility Inspection by Contractor at Location 2 - Deg2
- A4774 Joint Site and Facility Inspection with Interface Contractor at Location 2 - Deg2
- A4775 Joint Site and Facility Inspection with Interface Contractor at Location 2 for Server Installation
- A4780 Pre Site and Facility Inspection by Contractor at Location 3 - Deg1
- A4790 Joint Site and Facility Inspection with Interface Contractor at Location 3 - Deg1
- A4800 Pre Site and Facility Inspection by Contractor at Location 3 - Deg2
- A4810 Joint Site and Facility Inspection with Interface Contractor at Location 3 - Deg2
- A4820 Pre Site and Facility Inspection by Contractor at Location 3a - Deg1
- A4830 Joint Site and Facility Inspection with Interface Contractor at Location 3a - Deg1
- A4840 Pre Site and Facility Inspection by Contractor at Location 3a - Deg2
- A4850 Joint Site and Facility Inspection with Interface Contractor at Location 3a - Deg2
- A4851 Joint Site and Facility Inspection with Interface Contractor at Location 3a for Server Installation
- A4860 Pre Site and Facility Inspection by Contractor at Location 4 - Deg1
- A4870 Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg1
- A4880 Pre Site and Facility Inspection by Contractor at Location 4 - Deg2
- A4890 Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg2
- A4891 Pre Site and Facility Inspection by Contractor at Location 4a - Deg1

Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
A4892	Joint Site and Facility Inspection with Interface Contractor at Location 4a - Deg1																		
A4900	Pre Site and Facility Inspection by Contractor at Location 4a - Deg2																		
A4910	Joint Site and Facility Inspection with Interface Contractor at Location 4a - Deg2																		
A4920	Pre Site and Facility Inspection by Contractor at Location 5 - Deg1																		
A4930	Joint Site and Facility Inspection with Interface Contractor at Location 5 - Deg1																		
A4940	Pre Site and Facility Inspection by Contractor at Location 5 - Deg2																		
A4950	Joint Site and Facility Inspection with Interface Contractor at Location 5 - Deg2																		
A4960	Pre Site and Facility Inspection by Contractor at Location 6 - Deg1																		
A4970	Joint Site and Facility Inspection with Interface Contractor at Location 6 - Deg1																		
A4980	Pre Site and Facility Inspection by Contractor at Location 6 - Deg2																		
A4990	Joint Site and Facility Inspection with Interface Contractor at Location 6 - Deg2																		
A5000	Pre Site and Facility Inspection by Contractor at Location 7 - Deg1																		
A5010	Joint Site and Facility Inspection with Interface Contractor at Location 7 - Deg1																		
A5020	Pre Site and Facility Inspection by Contractor at Location 8 - Deg1																		
A5030	Joint Site and Facility Inspection with Interface Contractor at Location 8 - Deg1																		
A5040	Pre Site and Facility Inspection by Contractor at Location 8 - Deg2																		
A5050	Joint Site and Facility Inspection with Interface Contractor at Location 8 - Deg2																		
A5060	Pre Site and Facility Inspection by Contractor at Location 9 - Deg1																		
A5070	Joint Site and Facility Inspection with Interface Contractor at Location 9 - Deg1																		
A5080	Pre Site and Facility Inspection by Contractor at Location 9 - Deg2																		
A5090	Joint Site and Facility Inspection with Interface Contractor at Location 9 - Deg2																		
A5100	Pre Site and Facility Inspection by Contractor at Location 10 - Deg1																		
A5110	Joint Site and Facility Inspection with Interface Contractor at Location 10 - Deg1																		
A5120	Pre Site and Facility Inspection by Contractor at Location 10 - Deg2																		
A5130	Joint Site and Facility Inspection with Interface Contractor at Location 10 - Deg2																		
A5140	Pre Site and Facility Inspection by Contractor at Location 11 - Deg1																		
A5150	Joint Site and Facility Inspection with Interface Contractor at Location 11 - Deg1																		
A5160	Pre Site and Facility Inspection by Contractor at Location 11 - Deg2																		
A5170	Joint Site and Facility Inspection with Interface Contractor at Location 11 - Deg2																		
A5180	Pre Site and Facility Inspection by Contractor at Location 12 - Deg1																		
A5190	Joint Site and Facility Inspection with Interface Contractor at Location 12 - Deg1																		
A5200	Pre Site and Facility Inspection by Contractor at Location 12 - Deg2																		
A5210	Joint Site and Facility Inspection with Interface Contractor at Location 12 - Deg2																		
A5220	Pre Site and Facility Inspection by Contractor at Location 13 - Deg1																		
A5230	Joint Site and Facility Inspection with Interface Contractor at Location 13 - Deg1																		
A5240	Pre Site and Facility Inspection by Contractor at Location 13 - Deg2																		
A5250	Joint Site and Facility Inspection with Interface Contractor at Location 13 - Deg2																		
A5260	Pre Site and Facility Inspection by Contractor at Location 14 - Deg1																		
A5270	Joint Site and Facility Inspection with Interface Contractor at Location 14 - Deg1																		
A5300	Pre Site and Facility Inspection by Contractor at Location 15 - Deg1																		
A5310	Joint Site and Facility Inspection with Interface Contractor at Location 15 - Deg1																		
A5320	Pre Site and Facility Inspection by Contractor at Location 15 - Deg2																		
A5330	Joint Site and Facility Inspection with Interface Contractor at Location 15 - Deg2																		
A5340	Pre Site and Facility Inspection by Contractor at Location 16 - Deg1																		
A5350	Joint Site and Facility Inspection with Interface Contractor at Location 16 - Deg1																		

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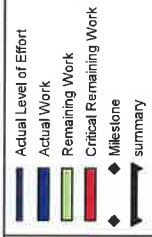
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)



Date	Revision	Checked	Approved
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Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
A1162	Location 4a(Outbd Cargo Exam Bldg (023))-Deg2 (630d)																		
A1170	Location 5(Common Utility Enclosure & Staff Subway)-Deg1 (320d)																		
A1180	Location 5(Common Utility Enclosure & Staff Subway)-Deg2 (-)																		
A1190	Location 6(Common Utility Enclosure & Staff Subway)-Deg1 (400d)																		
A1200	Location 6(Common Utility Enclosure & Staff Subway)-Deg2 (-)																		
A1210	Location 7(Common Utility Enclosure & Staff Subway)-Deg1 (270d)																		
A1230	Location 8(Inbd Private Car Annex (025))-Deg1 (430d)																		
A1240	Location 8(Inbd Private Car Annex (025))-Deg2 (580d)																		
A1241	Location 8(Inbd Private Car Annex (025) Canopy)-Deg1 (430d)																		
A1242	Location 8(Inbd Private Car Annex (025) Canopy)-Deg2 (580d)																		
A1250	Location 9(Outbd Private Car Annex (032))-Deg1 (520d)																		
A1260	Location 9(Outbd Private Car Annex (032))-Deg2 (660d)																		
A1261	Location 9(Outbd Private Car Annex (032) Canopy)-Deg1 (520d)																		
A1262	Location 9(Outbd Private Car Annex (032) Canopy)-Deg2 (660d)																		
A1270	Location 10(Shuttle Bus Kiosks (006))-Deg1 (480d)																		
A1280	Location 10(Shuttle Bus Kiosks (006))-Deg2 (550d)																		
A1281	Location 10(Shuttle Bus Kiosks (006) Canopy)-Deg1 (480d)																		
A1282	Location 10(Shuttle Bus Kiosks (006) Canopy)-Deg2 (550d)																		
A1290	Location 11(Outbd Coach Kiosks (009))-Deg1 (400d)																		
A1300	Location 11(Outbd Coach Kiosks (009))-Deg2 (480d)																		
A1301	Location 11(Outbd Coach Kiosks (009) Canopy)-Deg1 (400d)																		
A1302	Location 11(Outbd Coach Kiosks (009) Canopy)-Deg2 (480d)																		
A1303	Location 11(Inbd Coach Kiosks (010))-Deg1 (400d)																		
A1304	Location 11(Inbd Coach Kiosks (010))-Deg2 (480d)																		
A1305	Location 11(Inbd Coach Kiosks (010) Canopy)-Deg1 (400d)																		
A1306	Location 11(Inbd Coach Kiosks (010) Canopy)-Deg2 (480d)																		
A1310	Location 12(Inbd Private Car Kiosks(027))-Deg1 (400d)																		
A1311	Location 12(Inbd Private Car Kiosks(027))-Deg2 (480d)																		
A1312	Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg1 (400d)																		
A1313	Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg2 (480d)																		
A1314	Location 12(Inbd GV Kiosks (028))-Deg1 (400d)																		
A1315	Location 12(Inbd GV Kiosks (028))-Deg2 (480d)																		
A1316	Location 12(Inbd GV Kiosks (028) Canopy)-Deg1 (400d)																		
A1317	Location 12(Inbd GV Kiosks (028) Canopy)-Deg2 (480d)																		
A1318	Location 12(Outbd GV Kiosks (029))-Deg1 (400d)																		
A1319	Location 12(Outbd GV Kiosks (029))-Deg2 (480d)																		
A1320	Location 12(Outbd GV Kiosks (029) Canopy)-Deg1 (400d)																		
A1321	Location 12(Outbd GV Kiosks (029) Canopy)-Deg2 (480d)																		
A1330	Location 13(Outbd Private Car Kiosks (030))-Deg1 (480d)																		
A1340	Location 13(Outbd Private Car Kiosks (030))-Deg2 (550d)																		
A1341	Location 13(Outbd Private Car Kiosks (030) Canopy)-Deg1 (480d)																		
A1342	Location 13(Outbd Private Car Kiosks (030) Canopy)-Deg2 (550d)																		
A1350	Location 14(Future-Outbd/Private Car Kiosks)-Deg1 (610d)																		
A1370	Location 15(Inbd Traffic Control Kiosk (100))-Deg1 (400d)																		
A1380	Location 15(Inbd Traffic Control Kiosk (100))-Deg2 (480d)																		

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Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)



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Activity ID	Activity Name	2015			2016			2017			2018			2019		
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
A1390	Location 16(Outbd Traffic Control Kiosk (101))-Deg1 (400d)															
A1400	Location 16(Outbd Traffic Control Kiosk (101))-Deg2 (480d)															
A1410	Location 17(Inbd Private Car Exam Bldg(033))-Deg1 (-)															
A1420	Location 17(Inbd Private Car Exam Bldg(033))-Deg2 (550d)															
A1430	Location 18(Outbd Private Car Exam Bldg(024))-Deg1 (-)															
A1440	Location 18(Outbd Private Car Exam Bldg(024))-Deg2 (670d)															
A1450	Location 19(DOH Cargo Clearance Bldg(043))-Deg1 (-)															
A1460	Location 19(DOH Cargo Clearance Bldg(043))-Deg2 (550d)															
A1461	Underground Ducting between Inbd Cargo Exam Bldg (037) and DOH Cargo Clearance Bldg (043) and CUE															
A1462	Underground Ducting between Inbd Cargo Exam Bldg (037) and Inbd Vehicle Clearance Plaza															
A1463	Underground Ducting between CUE and Outbd Car Exam Bldg (023)															
A1464	Underground Ducting Between Outbd Cargo Exam Bldg (023) and Outbd Vehicle Clearance Plaza															
A1465	Underground Ducting between CUE and Outbd Vehicle Clearance Plaza															
A1466	Underground Ducting between CUE and Inbd P. Car Annex (025) and Shuttle Bus Kiosks (006)															
A1467	Underground Ducting between PCB(001) and Inbd Coach Kiosks(010)															
A1468	Underground Ducting between CUE and Outbd PCA (032)															
A1478	Inbound Vehicle Clearance Plaza (Assume same as Location 3)															
A1488	Outbound Vehicle Clearance Plaza (Assume same as Location 4 degree 1 + 51 day)															
Interfaces Provisions																
A7000	Inbound VID foundation and mounting structure (assume same as Access date of Inbound Vehicle Clearance Plaza)															
A7010	Inbound VTS foundation and mounting poles (assume same as Access date of Inbound Vehicle Clearance Plaza)															
A7020	Inbound TLS foundation and mounting poles (assume same as Access date of Inbound Vehicle Clearance Plaza)															
A7030	Outbound VID foundation and mounting structure (assume same as Access date of Outbound Vehicle Clearance Plaza)															
A7040	Outbound VTS foundation and mounting poles (assume same as Access date of Outbound Vehicle Clearance Plaza)															
A7050	Outbound TLS foundation and mounting poles (assume same as Access date of Outbound Vehicle Clearance Plaza)															
WA4 Site Erection & Servicing																
A1740	Possession of Site															
A1750	Method Statement & Drawing															
A1760	Place Order to prepare materials															
A1770	Review, revise and approve method statement															
A1780	Equipment mobilization and construction material delivered to the site															
A1790	Set up the alignment and level of the u-channel															
A1800	Trial pit excavation															
A1801	Excavation for chain-link fence footing															
A4540	Underground Utility detection															
A4550	Delivery of asphalt and fencing materials															
A4560	Trimming and leveling soil surface for paving asphalt material															
A4570	Remove the vegetation and loss material on the soil surface by backhoe															
A4580	Set out the alignment and level of the u-channel															

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Actual Level of Effort
 Actual Work
 Remaining Work
 Critical Remaining Work
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Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
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Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
A4590	Installation of fencing post along the site boundary																		
A4600	Excavation for underground drainage pipe																		
A4610	Evenly spread the asphalt scrap material by backhoe																		
A4620	Cast concrete for the u-channel and underground drainage pipe																		
A4630	Remove the u-channel framework																		
A4640	Installation of chain-link fencing along the site boundary																		
A4650	Installation of access doors																		
A4660	Excavation for drainage ditch																		
A4670	Cast concrete for the drainage ditch																		
A4680	Compact the asphalt scrap material																		
A4690	Land surveying																		
A4700	Inspection of chain-link fencing and access doors																		
A4710	Testing of drains																		
A4720	Completion of the works																		
Detailed Design Specification																			
A1808	Preliminary System Proposal Submission																		
A1809	Engineer's agreement with preliminary system proposal																		
A1810	Draft Detailed Design Specification (DDS) Submission																		
A1814	Draft Hardware Function Design Specification for Computer system and Network system (HFD)																		
A1815	Draft Software Function Design Specification for Computer system and Network system (SFD)																		
A1820	Engineer's Review and Approval for Draft Detailed Design Specification (DDS)																		
A1823	Engineer's Review and Approval for Draft Hardware FDS for Computer system and Network system (HFD)																		
A1824	Engineer's Review and Approval for Draft Software FDS for Computer system and Network system (SFD)																		
A1829	Interface Requirements for CED (LBS, CED IT Server, Metro-Ethernet) and IMMID (AVCS)																		
A1830	Final DDS Submission (AVCSS,VTS,VIDS)(Phase 1/Section 1)																		
A1831	Development of System Security Plan																		
A1840	Engineer's Review and Approval for Final DDS Submission including System Security Plan (AVCSS)(Phase 1/Section 1)																		
A1850	Final DDS Submission (AVCSS)(Phase 2/Section II&II)																		
A1860	Engineer's Review and Approval for DDS Submission (AVCSS)(Phase 2/Section II&II)																		
Construction Design and Management																			
A6920	Construction Health and Safety Plan Submission																		
A6930	Construction Health and Safety Plan reviewed by Engineer																		
Supply/Manufacture Mock-up items																			
A4748	Preparation of Kiosk equipment Mock-up																		
A4750	Installation of Kiosk equipment Mock-up																		
Supply/Manufacture prototypes																			
A2300	Manufacture LED Display Prototype (VID, ODB and XDB)																		
A2310	Manufacture All-in-One Panel Prototype (AIOF)																		
Software Design, Coding and Testing																			
		22-May-17, Software Design, Coding and Testing																	

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Hong Kong-Zhuhai-Macao Bridge
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Facilities - Automatic Vehicle
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Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
Coding																			
A5460	CCS, SURCON, SYSICON, CDBS Development Stage 1																		
A5500	VTS Development Stage 1																		
A5510	VIDS Development Stage 1																		
A5540	CCS, SURCON, SYSICON, CDBS Development Stage 2																		
A5580	VTS Development Stage 2																		
A5590	VIDS Development Stage 2																		
Software System Integration																			
A5520	Test Plan Documentation Submission																		
A5530	Engineer's Review and Approval for Test Plan Documentation Submission																		
A5600	Software System Integration Test																		
A5630	CCS/SURCON/SURCON/CDBS/VTS/VIDS Software Enhancement																		
A5640	Software User Acceptance Test (UAT)																		
Prototype & Software Simulation Tests																			
A1910	Prototype Test Document																		
A2130	Engineer's Approval for Testing Document																		
A2920	CCWS with CDBS, SURCON and SYSICON (Software Simulation/ Software Integration Test)																		
A2930	Vehicle Tracking System (VTS) (Software Simulation/ Software Integration Test)																		
A2950	LED Displays (VID, ODB and XDB)																		
A2960	All-In-One Panel (AIOP)																		
A3020	Prototype Testing Report Submission																		
A4350	Engineer's Approval for Prototype Testing Report																		
Procurement - Phase 1 / Section I																			
A3070	Procurement of Equipment for Phase 1/Section I																		
A3080	Procurement of Cable and Accessories for Phase 1/Section I																		
A3990	Procurement of All Servers and Workstations																		
Supply/Manufacture products for FAT																			
A2980	Supply/Manufacture LED Display (ODB, VID and XDB) for FAT																		
A2990	Supply/Manufacture All-In-One Panel (AIOP) for FAT																		
A3000	Supply/Manufacture off-the-shelf equipment for FAT																		
Factory Acceptance Test (FAT)																			
A2120	FAT Procedure Document																		
A2121	Engineer's Approval for FAT Procedure Document																		
A3050	FAT for Licence Plate Recognition System (LPRS)																		
A3060	FAT for PA/Intercom																		
A3080	FAT for ODB																		
A3100	FAT for XDB																		
A3110	FAT for VID																		
A3120	FAT for Video Management System (VMS)																		
A3130	FAT for Vehicle Tracking System (VTS)																		
A3140	FAT for Communication Network (CMN)																		
A3150	FAT for All-In-One Panel (AIOP)																		
A3160	FAT for AVCSS System Test																		
A4360	FAT Report Submission																		

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- Actual Level of Effort
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Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)



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Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A4370	Engineer's Approval for FAT Report Submission																		
Supply/Manufacture Equipment																			
A6830	Supply/Manufacture LED (ODB, VID and XDB) Display for installation																		
A6840	Supply/Manufacture AIOF for installation																		
Delivery and Bench Acceptance Test for Phase 1/ Section 1																			
A6740	Material On-Site for Phase 1/Section 1																		
A6750	Material Bench Acceptance Test for Phase 1/Section 1																		
A6850	Cable On-Site for Phase 1/Section 1																		
A6960	AIOF On-Site for Phase 1/Section 1																		
A6970	AIOF Bench Acceptance Test for Phase 1/Section 1																		
A6980	LED (ODB, VID and XDB) On-Site for Phase 1/Section 1																		
A6990	LED (ODB, VID and XDB) Bench Acceptance Test for Phase 1/Section 1																		
Installation - Phase 1 / Section 1																			
Location 1 (PCB 001) Basement																			
A3081	Cable Laying and termination at Location 1 and Location 2																		
Location 1 (PCB 001) ELV Room (Grid Line E3)																			
A3101	Cable Laying and termination at Location 1 and Location 2																		
Location 2 (PCB 001) Ground Floor ELV Room (Grid Line E3)																			
A3121	Cable Laying and termination at Location 1 and Location 2																		
Location 2 (PCB 001) Ground Floor DOH Port Health Control Room (Grid Line BDI)																			
A2041	Cable Laying and termination at Location 1 and Location 2																		
A2042	Cable Testing																		
A2043	Intercom and PA system installation																		
A2044	Intercom and PA system tuning																		
Location 2 (PCB 001) First Floor Main Server Room																			
A2001	Cable Laying and termination at Location 1 and Location 2																		
A2002	Cable Testing																		
A2003	AVCSS Network and Server Installation																		
A2004	AVCSS Network and Server Tuning																		
Location 3 (Inbd Cargo Exam Bldg (037) Inspector Offices 128,129,130,131,128,12,12)																			
A3241	Cable Laying and termination in Location 3 and Location 3a																		
A3242	AVCSS SURCON WS and 55" LCD Installation																		
A3243	VTS WS Installation																		
A3245	SURCON, WS Tuning																		
Location 3 (Inbd Cargo Exam Bldg (037) ELV Room)																			
A3210	Cable Laying and termination between Location 3 and CUE																		
Location 3 (Inbd Cargo Exam Bldg (037) Platform Control Room)																			
A2071	Cable Laying and termination in Location 3 and Location 3a																		
A2072	AVCSS SYSCON WS and 55" TV Wall Installation																		
A2074	AVCSS SYSCON WS Tuning																		
Location 3 (Inbd Cargo Exam Bldg (037) MDF Room)																			
A3180	Cable Laying and termination between Location 3 and CUE																		
Location 3a (Inbd Cargo Exam Bldg (037) ROCARS Room)																			
A2091	Cable Laying and termination in Location 3 and Location 3a																		
A2092	AVCSS SYSCON, SURCON and Intercom Installation																		

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		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A2093	VTS WS Installation																		
A2094	VID WS Installation																		
A2096	SURCON, SYSCON, WS Tuning																		
Location 3a(Inbd Cargo Exam Bldg Main Server Room)																			
A3330	Cable Laying and termination in Location 3 and Location 3a																		
A3340	AVCSS Server Installation																		
A3350	VTS Server Installation																		
A3360	Servers Tuning																		
Location 4(Outbd Cargo Exam Bldg (023) MDF Room)																			
A3410	Cable Laying and termination between CUE and Location 4																		
Location 4 and 4a(Outbd Cargo Exam Bldg (023) ROCARS Room)																			
A3370	Cable Laying and termination in Location 4 and 4a																		
A3380	AVCSS SYSCON, SURCON and Intercom Installation																		
A3390	VTS WS Installation																		
A3400	SYSCON, SURCON, WS Tuning																		
Location 5(Common Utility Enclosure & Staff Subway)																			
A3430	Cable Laying between Location 5 and Location 7																		
A3440	Cable Laying between Location 5 and Location 6																		
A3480	ODB Switch Installation at EL Room 2-7																		
A3460	Cable Laying between Location 5 and Location 6																		
A3490	ODB Switch Installation at EL Room 8-9 11-12																		
Location 7(Common Utility Enclosure & Staff Subway)																			
A3470	Cable Laying between Location 5 and Location 7																		
Location 12(Inbd Private Car Kiosks (027, 028, 029))																			
Inbd Private Car Kiosks(027) - 9 nos (Phase 1)																			
A2452	Cable Containment in Kiosks																		
A2453	Cable Laying and termination																		
A2454	Cable Splicing, Testing and Labeling																		
A2460	AVCSS/DOH/MOM Kiosk Equipment Installation (9 nos)																		
A2470	ODB & XDB Installation (9 nos)																		
A4380	Inbd Private Car Kiosk Installation Complete																		
Inbd Goods Vehicle Kiosks(028) - 5 nos (Phase 1)																			
A2532	Cable Containment in Kiosks																		
A2533	Cable Laying and termination																		
A2534	Cable Splicing, Testing and Labeling																		
A2540	AVCSS/DOH/MOM Kiosk Equipment Installation (5 nos)																		
A2550	AIDP Installation (5 nos)																		
A2560	ODB & XDB Installation (5 nos)																		
A4390	Inbd Goods Vehicle Kiosks Installation Complete																		
Outbd Goods Vehicle Kiosks(029) - 5 nos (Phase 1)																			
A2572	Cable Containment in Kiosks																		
A2573	Cable Laying and termination																		
A2574	Cable Splicing, Testing and Labeling																		
A2580	AVCSS/DOH/MOM Kiosk Equipment Installation (5 nos)																		

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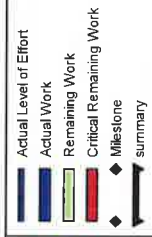
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		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
A2590	A/OP Installation (5 nos)															
A2600	ODB & XDB Installation (5 nos)															
A4400	Outbd Goods Vehicle Kiosks Installation Complete															
	Location 13(Outbd Private Car Kiosks (030)) - 9 nos (Phase 1)															
A3582	Cable Containment in Kiosks															
A3583	Cable Laying and termination															
A3584	Cable Splicing, Testing and Labeling															
A3590	AVCSS/DOH/MOM Kiosk Equipment Installation (9 nos)															
A3600	ODB & XDB Installation (9 nos)															
A4410	Outbd Private Car Kiosks Installation Complete															
	Location 14(Future-Outbd/Private Car Kiosks) - 6+6 nos															
A2441	Cable Laying and termination at ELV Room in CUE															
	Location 15(Inbd Traffic Control Kiosk (100))															
A3651	Cable Laying and termination															
A3652	AVCSS SYSCON, SURCON Installation															
A3660	VTS WS and 55" LCD Installation															
A3670	SYSCON, SURCON, WS Tuning															
	Location 16(Outbd Traffic Control Kiosk (101))															
A3701	Cable Laying and termination															
A3702	AVCSS SYSCON, SURCON Installation															
A3710	VTS WS and 55" LCD Installation															
	Location 17(Inbd Private Car Exam Bldg(033) Operational Office)															
A3750	Cable Laying and termination															
A3760	AVCSS SURCON and 55" LCD Installation															
A3770	SURCON Tuning															
	Location 18 (Outbd Private Car Exam Bldg(024) Operational Office)															
A3780	Cable Laying and termination															
A3790	AVCSS SURCON and 55" LCD Installation															
	Location 19 (DOH Cargo Clearance Bldg(043))															
A2111	Cable Laying and termination between Location 19 and CUE															
A2112	Cable Laying in Location 19															
A2113	PA and Intercom Installation															
A2123	PA and Intercom Tuning															
	Inbd Vehicle Clearance Plaza - 8 nos VID, 7 nos VTS, 4 nos TLS															
A4050	Inbound VID cabling from pillar box to VID field equipment															
A4052	Inbound VTS cabling from pillar box to VTS field equipment															
A4054	Inbound TLS cabling from pillar box to TLS field equipment															
A4060	Inbound VID field equipment installation (8 VID)															
A4062	Inbound VTS field equipment installation (4 RFID + 3 Cameras)															
A4064	Inbound TLS field equipment installation (4 TLS)															
A4066	Inbound VID, VTS and TLS field equipment tuning															
	Outbd Vehicle Clearance Plaza - 8 nos VID, 6 nos VTS, 4 nos TLS															
A4110	Outbound VID cabling from pillar box to VID field equipment															
A4120	Outbound VTS cabling from pillar box to VTS field equipment															
A4130	Outbound TLS cabling from pillar box to TLS field equipment															

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		Q2	Q3	Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
A4140	Outbound VID field equipment installation (8 VID)																		
A4150	Outbound VTS field equipment installation (3 RFID + 3 Cameras)																		
A4170	Outbound TLS field equipment installation (4 TLS)																		
A4180	Outbound VID, VTS and TLS field equipment tuning																		
A3810	Underground Ducting between Inbd Cargo Exam Bldg (037) and CUE																		
A3810	Cable Laying and termination (note: Access Date by C03)																		
A3830	Underground Ducting between Inbd Cargo Exam Bldg (037) and Inbd Vehicle Clea																		
A3830	Cable Laying and termination (note: Access Date by C03)																		
A3850	Underground Ducting between CUE and Outbd Car Exam Bldg (023)																		
A3850	Cable Laying and termination (note: Access Date by C03)																		
A3870	Underground Ducting Between Outbd Cargo Exam Bldg (023) and Outbd Vehicle I																		
A3870	Cable Laying and termination (note: Access Date by C03)																		
A3890	Underground Ducting between CUE and Outbd Vehicle Clearance Plaza																		
A3890	Cable Laying and termination (note: Access Date by C03)																		
A2150	On-Site Test and Commissioning (Phase 1 / Section I)																		
A2150	Testing & Commissioning Documents Submission (8 weeks before Testings carried out)																		
A2151	Engineer Approval for T&C Document																		
A2152	Joint Site Inspection for Permanent Power/Tele-communication for Initial on-site testing																		
A2153	Initial on-site Testing & Commissioning																		
A6601	Site Acceptance Test (Phase 1 / Section I)																		
A6601	Interface Readiness CED(LBS, CED IT, Metro-Ethernet) and IMMDD (AVS)																		
A6602	SAT for AVCSS																		
A6603	SAT for Location 18 (AVCSS SURCON and 55" LCD)																		
A6630	SAT Test Document Submission																		
A6640	Software Manual Documentations Submission																		
A6800	Security Risk Assessment and Audit																		
A6800	SRAA (Assessment)																		
A6810	Fix per SRAA Assessment																		
A6820	SRAA Audit																		
A5510	Operability Period Test (Phase 1 / Section I)																		
A5510	Joint Site Inspection for utilities, telecom connection and metro ethernet for OPT																		
A5520	Operability Period Test (OPT) Phase 1																		
A5550	Operability Period Test (OPT) Phase 2																		
A2230	Completion (Phase 1 / Section I)																		
A2230	AVCSS - Certificate of Completion (Phase 1/Section I)																		
A2231	Certificate of Completion Approval by Engineer																		
A2180	Training and Document (Phase 1 / Section I)																		
A2180	Training Materials & Documentation Submission																		
A2190	Operation and Maintenance Training																		
A2240	Operation (Phase 1 / Section I)																		
A2240	Site Operation (Phase 1/Section I)																		
A2240	Engineering Support for Phase 1 / Section I																		

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		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A2623	Cable Laying and termination																		
A2630	AVCSS/DOH/MOM Kiosk Equipment Installation (4 nos)																		
A4460	Shuttle Bus Kiosks Installation Complete																		
A4460	Outbd Coach Kiosks (009) - 4 nos (Phase 2)																		
A2662	Cable Containment																		
A2663	Cable Laying and termination																		
A2670	AVCSS/DOH/MOM Kiosk Equipment Installation (4 nos)																		
A4470	Outbd Coach Kiosks Installation Complete																		
A2742	Cable Containment																		
A2743	Cable Laying and termination																		
A2744	Cable Splicing, Testing and Labeling																		
A2750	AVCSS/DOH/MOM Kiosk Equipment Installation (12 nos)																		
A2760	Kiosk Equipment Configuration (12 nos)																		
A4480	Inbd Private Car Kiosks Installation Complete																		
A2782	Cable Containment																		
A2783	Cable Laying and termination																		
A2784	Cable Splicing, Testing and Labeling																		
A2790	AVCSS/DOH/MOM Kiosk Equipment Installation (12 nos)																		
A4500	Outbd Private Car Kiosks Installation Complete																		
A2822	Cable Containment																		
A2823	Cable Laying and termination																		
A2825	Kiosk Equipment Configuration (3 nos)																		
A2830	AVCSS/DOH/MOM Kiosk Equipment Installation (3 nos)																		
A4510	Inbd Goods Vehicle Kiosks Installation Complete																		
A2852	Cable Containment																		
A2853	Cable Laying and termination																		
A2865	Cable Splicing, Testing and Labeling																		
A2870	AVCSS/DOH/MOM Kiosk Equipment Installation (3 nos)																		
A4520	Outbd Goods Vehicle Kiosks Installation Complete																		
A2702	Cable Containment																		
A2703	Cable Laying and termination																		
A2705	Kiosk Equipment Configuration (4 nos)																		
A2710	AVCSS/DOH/MOM Kiosk Equipment Installation (2 nos)																		
A2720	AVCSS/DOH/MOM Kiosk Equipment Installation (2 nos)																		
A4480	Inbd Coach Kiosks Installation Complete																		
A3970	Cable Laying and termination (note: Access Date by C03)																		
A3930	Cable Laying and termination (note: Access Date by C03)																		
Test and Commissioning (Phase 2 / Section III)																			

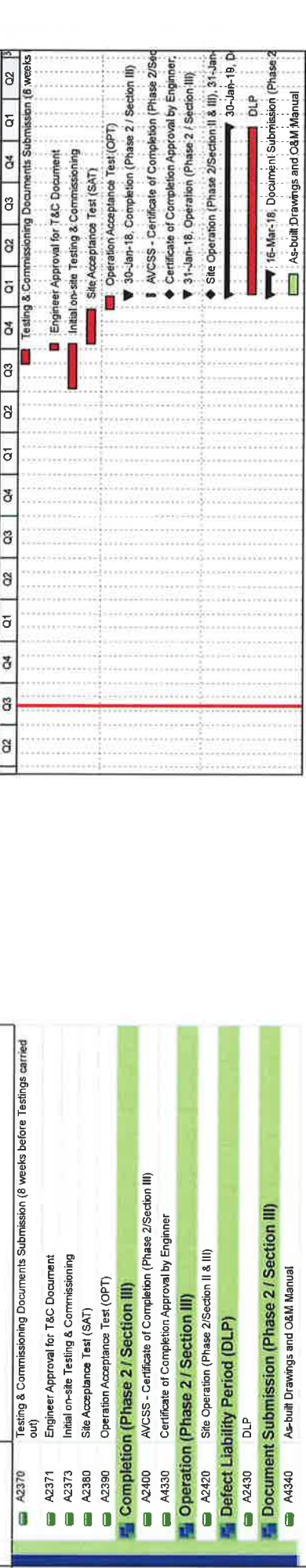
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The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The text is contained within a rectangular frame consisting of two horizontal lines above and below the text, and two vertical lines on the left and right sides.

Report No.: 0165/15/ED/0820

Appendix D

Event / Action Plan

Appendix D –

Event / Action Plan for Air Quality and Noise Monitoring and Water Quality Monitoring and Ecological Monitoring

Event / Action Plan for Air Quality

Event	Action			
	ET	IEC	ER	Contractor
Action Level				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.

Event	Action			
	ET	IEC	ER	Contractor
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

Event	Action			
	ET	IEC	ER	Contractor
Limit Level				
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.

Event	Action			
	ET	IEC	ER	Contractor
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedances abated.

Event / Action Plan for Construction Noise Monitoring

Event	Action			
	ET	IEC	ER	Contractor
Action Level	<ol style="list-style-type: none"> 1. Notify IEC and Contractor; 2. Identify source, investigate the causes of exceedance and propose remedial measures; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.

Event	Action			
	ET	IEC	ER	Contractor
Limit Level	<ol style="list-style-type: none"> 1. Inform IEC, ER, EPD and Contractor; 2. Identify source; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Event / Action Plan for Water Quality

Event	ET Leader	IEC	ER	Contractor
Action level being exceeded by one sampling day	<ol style="list-style-type: none"> 1. Repeat in situ measurement on next day of exceedance to confirm findings 2. Identify source(s) of impact 3. Inform IEC, contractor and ER 4. Check monitoring data, all plant, equipment and Contractor's working methods 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of noncompliance in writing 2. Notify Contractor 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of noncompliance in writing 2. Notify Contractor 	<ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the noncompliance in writing 2. Rectify unacceptable practice 3. Amend working methods if appropriate
Action level being exceeded by two or more consecutive sampling days	<ol style="list-style-type: none"> 1. Repeat in situ measurement to confirm findings 2. Identify source(s) of impact 3. Inform IEC, Contractor and ER 4. Check monitoring data, all plant, equipment and Contractor's working methods 5. Discuss mitigation measures with IEC, ER and Contractor 6. Ensure mitigation measures are implemented 7. Increase the monitoring frequency to daily until no exceedance of Action level 8. Repeat measurement on next day of exceedance to confirm findings 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method 2. Discuss with ET and Contractor on possible remedial actions 3. Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly 4. Assess the effectiveness of the implemented mitigation measures 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of noncompliance in writing 2. Discuss with IEC on the proposed mitigation measures 3. Make agreement on mitigation measures to be implemented 4. Ensure mitigation measures are properly implemented 5. Assess the effectiveness of the implemented mitigation measures 	<ol style="list-style-type: none"> 1. Inform the Engineer and confirm notification of the noncompliance in writing 2. Rectify unacceptable practice 3. Check all plant and equipment and consider changes of working methods 4. Discuss with ET and IEC on possible remedial actions and propose mitigation measures to IEC and ER within 3 working days of notification 5. Implement the agreed mitigation measures 6. Amend working methods if appropriate

Event	ET Leader	IEC	ER	Contractor
Limit level being exceeded by one sampling day	<ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings 2. Identify source(s) of impact 3. Inform IEC, Contractor, ER and EPD 4. Check monitoring data, all plant, equipment and Contractor's working methods 5. Discuss mitigation measures with IEC, ER and Contractor 6. Ensure mitigation measures are implemented 7. Increase the monitoring frequency to daily until no exceedance of Limit level 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method 2. Discuss with ET and Contractor on possible remedial actions 3. Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly 4. Assess the effectiveness of the implemented mitigation measures 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures 3. Request Contractor to critically review the working methods 4. Ensure mitigation measures are properly implemented 5. Assess the effectiveness of the implemented mitigation measures 	<ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the noncompliance in writing 2. Rectify unacceptable practice 3. Check all plant and equipment and consider changes of working methods 4. Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER 5. Implement the agreed mitigation measures 6. Amend working methods if appropriate
Limit level being exceeded by two or more consecutive sampling days	<ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings 2. Identify source(s) of impact 3. Inform IEC, contractor, ER and EPD 4. Check monitoring data, all plant, equipment and Contractor's working methods 5. Discuss mitigation measures with IEC, ER and Contractor 6. Ensure mitigation measures are implemented 7. Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method 2. Discuss with ET and Contractor on possible remedial actions 3. Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the ER accordingly 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures 3. Request Contractor to critically review the working methods 4. Make agreement on the mitigation measures to be implemented 5. Ensure mitigation measures are properly implemented 6. Assess the effectiveness of the implemented mitigation measures 7. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level 	<ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the noncompliance in writing 2. Take immediate action to avoid further exceedance 3. Rectify unacceptable practice 4. Check all plant and equipment and consider changes of working methods 5. Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER 6. Implement the agreed mitigation measures 7. Resubmit proposals of mitigation measures if problem still not under control 8. As directed by the engineer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level

Event / Action Plan for Ecological Monitoring

Event	ET Leader	IEC	ER	Contractor
Action Level	<ol style="list-style-type: none"> 1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor; 5. Check monitoring data. 6. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and finding with the ET and the Contractor. 	<ol style="list-style-type: none"> 1. Discuss monitoring with the IEC and any other measures proposed by the ET; 2. If ER/SOR is satisfied with the proposal of any other measures, ER/SOR to signify the agreement in writing on the measures to be implemented. 	<ol style="list-style-type: none"> 1. Inform the ER/SOR and confirm notification of the non-compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the ER/SOR; 3. Implement the agreed measures.

Event	ET Leader	IEC	ER	Contractor
Limit Level	<ol style="list-style-type: none"> 1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor of findings; 5. Check monitoring data; 6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 7. If ET proves that the source of impact is caused by any of the construction activity by the works contract, ET to arrange a meeting to discuss with IEC, ER/SOR and Contractor the necessity of additional dolphin monitoring and/or any other potential mitigation measures (e.g., consider to modify the perimeter silt curtain or consider to control/temporarily stop relevant construction activity etc.) and submit to IEC a proposal of additional dolphin monitoring and/or mitigation measures where necessary. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor; 3. Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. 4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise ER/SOR of the results and findings accordingly. 5. Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly. 	<ol style="list-style-type: none"> 1. Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. 2. If ER/SOR is satisfied with the proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, ER/SOR to signify the agreement in writing on such proposals and any other mitigation measures. 3. Supervise the implementation of additional monitoring and/or any other mitigation measures. 	<ol style="list-style-type: none"> 1. Inform the ER/SOR and confirm notification of the non-compliance in writing; 2. Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures. 3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary. 4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.

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Report No.: 0165/15/ED/0820

Appendix E

Implementation Schedule for Environmental Mitigation Measures (EMIS)

Appendix E – Implementation Schedule of Environmental Mitigation Measures (EMIS)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
Air Quality				
S5.5.6.1	A1	1) The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	All construction sites	V
S5.5.6.2	A2	2) Proper watering of exposed spoil should be undertaken throughout the construction phase: <ul style="list-style-type: none"> • Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; • Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; • A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones. • The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; • Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; 	All construction sites	V
S5.5.6.2	A2	<ul style="list-style-type: none"> • When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; • The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials, • Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; • Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; • Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; • Any skip hoist for material transport should be totally enclosed by impervious sheeting; • Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top 	All construction sites	V
S5.5.6.2	A2	<ul style="list-style-type: none"> • Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; • Loading, unloading, transfer, handling or storage of bulk 	All construction sites	N/A

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<p>cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and</p> <ul style="list-style-type: none"> Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies 		
S5.5.6.3	A3	3) The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase.	All construction sites	V
S5.5.6.4	A4	4) Engineer to incorporate the controlled measures into the Particular Specification (PS) for the civil work. The PS should also draw the contractor's attention to the relevant latest Practice Notes issued by EPD.	All construction sites	V
S5.5.6.4	A5	5) Implement regular dust monitoring under EM&A programme during the construction stage.	Selected Representative dust monitoring station	V (Conducted by Contract No. HY/2010/02 and HY/2011/03)
S5.5.7.1	A6	<p>The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant;</p> <ul style="list-style-type: none"> Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system; All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP; Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system; The materials which may generate airborne dusty emissions should be wetted by water spray system; All receiving hoppers should be enclosed on three sides up to 3m above unloading point; All conveyor transfer points should be totally enclosed; All access and route roads within the premises should be paved and wetted; and Vehicle cleaning facilities should be provided and used by all concrete trucks before leaving the premises to wash off any dust on the wheels and/or body 	Selected Representative dust monitoring station	N/A
S5.5.2.7	A7	<p>The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point:</p> <ul style="list-style-type: none"> All road surface within the barging facilities will be paved; Dust enclosures will be provided for the loading ramp; Vehicles will be required to pass through designated wheels wash facilities; and Continuous water spray at the loading points 	All construction sites	V
Construction Noise (Air borne)				
S6.4.10	N1	<p>1) Use of good site practices to limit noise emissions by considering the following:</p> <ul style="list-style-type: none"> only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; 	All construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<ul style="list-style-type: none"> • silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; • mobile plant should be sited as far away from NSRs as possible and practicable; • material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 		
S6.4.11	N2	2) Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	All construction sites	V
S6.4.12	N3	3) Install movable noise barriers (typically density@14kg/m acoustic mat or full enclosure close to noisy plants including compressor, generators, saw.	For plant items listed in Appendix 6D of the EIA report at all construction sites	N/A
S6.4.13	N4	4) Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.	For plant items listed in Appendix 6D of the EIA report at all construction site	V
S6.4.14	N5	5) Sequencing operation of construction plants where practicable	All construction sites where practicable	V
S5.1	N6	6) Implement a noise monitoring under EM&A programme.	Selected representative noise monitoring station	V (Conducted by Contract No. HY/2010/02)
Sediment				
S7.3	S1	1) The requirements as recommended in ETWB TC 34/2002 Management of Dredged/Excavated Sediment shall be included in the Particular Specification as appropriate.	All construction sites	V
Waste Management (Construction Waste)				
S8.3.8	WM1	<p>Construction and Demolition Material</p> <p>The following mitigation measures should be implemented in handling the waste:</p> <ul style="list-style-type: none"> • Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; • Carry out on-site sorting; • Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; • Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and • Implement an enhanced Waste Management Plan similar to E7WBTC (Works) No. 19/2005 - "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction. • In addition, disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation 	All construction sites	V
S8.3.9-	WM2	C&D Waste	All construction	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
S8.3.11		<ul style="list-style-type: none"> • Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage. • The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage. 	sites	
S8.2.12-S8.3.15	WM3	<p><u>Chemical Waste</u></p> <ul style="list-style-type: none"> • Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. • Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation. • The storage area for chemical wastes should be clearly labeled and used solely for the storage of chemical waste; enclosed on at least 3 sides; have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20 % of the total volume of waste stored in that area, whichever is the greatest; have adequate ventilation; covered to prevent rainfall entering; and arranged so that incompatible materials are adequately separated. • Disposal of chemical waste should be via a licensed waste collector; be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers chemical waste collection service and can supply the necessary storage containers; or be to a reuser of the waste, under approval from the EPD. 	All construction sites	V
S8.3.16	WM4	<p><u>Sewage</u></p> <ul style="list-style-type: none"> • Adequate numbers of portable toilets should be provided for the workers. The portable toilets should be maintained in a state which will not deter the workers from utilizing these portable toilets. Night soil should be collected by licensed collectors regularly. 	All construction sites	V
S8.3.17	WM5	<p><u>General Refuse</u></p> <ul style="list-style-type: none"> • General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes. • A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law. 	All construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<ul style="list-style-type: none"> • Aluminium cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible. • Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor. • Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes. 		
Water Quality (Construction Phase)				
S9.11.1.7	W2	<p><u>Land Works</u> General construction activities on land should also be governed by standard good working practice. Specific measures to be written into the works contracts should include:</p> <ul style="list-style-type: none"> • wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters; • sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided; • storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks; • silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm; • temporary access roads should be surfaced with crushed stone or gravel; • rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities; • measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system; • open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms; • manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers; • discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system; 	Land-based works area	V
S9.11.1.7	W2	<ul style="list-style-type: none"> • all vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit; • wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain; • the section of construction road between the wheel washing bay and the public road should be surfaced 	Land-based works area	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<ul style="list-style-type: none"> with crushed stone or coarse gravel; wastewater generated from concreting, plastering, Internal decoration, cleaning work and other similar activities, shall be screened to remove large objects; vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal; the contractors shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately; waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance; all fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank; and surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system. 		
S9.14	W3	Implement a water quality monitoring programme	Selected representative WQM stations	V (Conducted by Contract No. HY/2010/02)
Ecology (Construction Phase)				
S10.7	E4	<ul style="list-style-type: none"> Watering to reduce dust generation; prevention of siltation of freshwater habitats; Site runoff should be desilted, to reduce the potential for suspended sediments, organics and other contaminants to enter streams and standing freshwater 	Land-based works areas	V
S10.7	E5	<ul style="list-style-type: none"> Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time 	Land-based works areas	V
S10.7	E6	<ul style="list-style-type: none"> Dolphin Exclusion Zone Dolphin watching plan 	Marine works	V
S10.7	E7	<ul style="list-style-type: none"> Decouple compressors and other equipment on working vessels Proposal on design and implementation of acoustic decoupling measures applied during dredging and reclamation works Avoidance of percussive piling 	Marine works	V
S10.7	E8	<ul style="list-style-type: none"> Control vessel speed Skipper training Predefined and regular routes for working vessels; avoid Brother Islands. 	Marine Traffic	V
S10.10	E9	Vessel based dolphin monitoring	Northeast and Northwest Lantau	V (Conducted by Contract No. HY/2010/02)
Fisheries				
S11.7	F4	<ul style="list-style-type: none"> Maritime Oil Spill Response Plan (MOSRP); Contingency plan. 	HKBCF	V
Landscape & Visual (Detailed Design Phase)				
S14.3.3.1	LV1	<p>General design measures include:</p> <ul style="list-style-type: none"> Roadside planting and planting along the edge of the HKBCF Island is proposed; Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory 	HKBCF	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<p>hydro-seeding and planting;</p> <ul style="list-style-type: none"> • Protection measures for the trees to be retained during construction activities; • Optimizing the sizes and spacing of the bridge columns; • Fine-tuning the location of the bridge columns to avoid visually-sensitive locations; • Providing planting area around peripheral of HKBCF for tree planting screening effect; • Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline; • For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF; and • Fine-tuning the sizes of the structural members to minimize the bulkiness of buildings and adjustment of building arrangement to minimise disturbance to surrounding vegetation in the HKBCF. 		
Landscape & Visual (Construction Phase)				
S14.3.3.3	LV2	<p>Mitigate both Landscape and Visual Impacts</p> <p>G1. Grass-hydroseed bare soil surface and stock pile areas.</p> <p>G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge footbridge to screen bridge and traffic.</p> <p>G3. Not applicable as this is for HKLR.</p> <p>G4. For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF</p> <p>G5. Vegetation reinstatement and upgrading to disturbed areas</p> <p>G6. Maximizing new tree shrub and other vegetation planting to compensate tree felled and vegetation removed</p> <p>G7. Providing planting area around peripheral of HKBCF for tree planting screening effect;</p> <p>G8. Plant salt-tolerant native and shrubs etc along the planter strip at affected seawall.</p> <p>G9. Reserve of loose natural granite rocks for re-use, Provide new coastline to adopt "natural-look" by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enhance "natural-look" of the new coastline.</p>	HKBCF	N/A
S14.3.3.3	LV3	<p><u>Mitigate Visual Impacts</u></p> <p>V1. Minimize time for construction activities during construction period.</p> <p>V2. Provide screen hoarding at the portion of the project site / works areas / storage areas near VSRs who have close low-level views to the Project during HKBCF construction.</p>	HKBCF	N/A
EM&A				
S15.2.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual	All construction sites	V
S15.5 – S15.6	EM2	<p>1) An Environmental Team needs to be employed as per the EM&A Manual.</p> <p>2) Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation</p>	All construction sites	V

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Appendix F

Site Audit Findings and Corrective Actions

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Appendix F – Site Audit Findings and Corrective Actions

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. During the reporting period, 13 site inspections were carried out on 2, 9, 16, 24 and 30 March 2017, 5, 12, 20, and 28 April 2017 and 5, 11, 18 and 26 May 2017 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area).

Particular observations during the site inspections are described below.

For Contract No. HY/2013/03

24 February 2017

1. CHEC was reminded to provide drip tray for chemical containers. Subsequently, drip tray for chemical containers were provided. The observation was closed on 02 March 2017.
2. CHEC was reminded to provide maintenance for a generator in A8 Bridge which emitted smoke. Subsequently, the generator was removed. The observation was closed on 02 March 2017.
3. CHEC was reminded to remove stagnant water onsite. Subsequently, stagnant water was removed. The observation was closed on 02 March 2017.
4. CHEC was reminded to remove general refuse accumulated at Box Culvert B. Subsequently, general refuse accumulated at Box Culvert B was removed. The observation was closed on 02 March 2017.

02 March 2017

1. The Contractor was reminded to increase watering for dust suppression on site. Subsequently, watering for dust suppression was provided. The observation was closed on 09 March 2017.
2. The Contractor was reminded to remove food waste accumulated at Building 026 and 057. Subsequently, food waste accumulated at Building 026 and 057 were removed. The observation was closed on 09 March 2017.

09 March 2017

1. The Contractor was reminded to remove the general refuse accumulated at Building 054 and 037. Subsequently, general refuse accumulated at Building 054 and 037 was removed. The observation was closed on 16 March 2017.
2. The Contractor was reminded to remove stagnant water accumulated at drip tray for chemical containers at Building 054. Subsequently, stagnant water accumulated at drip tray for chemical containers at Building 054 was removed. The observation was closed on 16 March 2017.

16 March 2017

1. The Contractor was reminded to remove the food waste accumulated at Building 037 and 038. Subsequently, food waste accumulated at Building 037 and 038 were removed. The observation was closed on 24 March 2017.

24 March 2017

1. The Contractor was reminded to remove stagnant water accumulated at Building 037. Subsequently, stagnant water accumulated at Building 037 was removed. The observation was closed on 30 March 2017.

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2. The Contractor was reminded to remove the construction waste accumulated at Building 037.
Subsequently, construction waste accumulated at Building 037 were removed. The observation was closed on 30 March 2017.
3. The contractor was reminded to remove food waste accumulated at STP. Subsequently, food waste accumulated at STP were removed. The observation was closed on 30 March 2017.

30 March 2017

1. The Contractor was reminded to remove food waste accumulated at Building 033. Subsequently, food waste was removed. The observation was closed on 05 April 2017.
2. The Contractor was reminded to remove the stagnant water accumulated at the drip tray of the chemical container of Building 033. Subsequently, stagnant water at the drip tray was removed. The observation was closed on 05 April 2017.

5 April 2017

1. The Contractor was reminded to increase watering for dust suppression on site. Subsequently, watering was increased for dust suppression. The observation was closed on 12 April 2017.
2. The Contractor was reminded to remove stagnant water accumulated at Building 037. Subsequently, stagnant water was removed. The observation was closed on 12 April 2017.
3. The Contractor was reminded to remove construction waste accumulated at Building 054, 041 and 042. Subsequently, construction waste was removed. The observation was closed on 12 April 2017.

12 April 2017

1. The Contractor was reminded to remove general waste accumulated at CUE works area. Subsequently, general waste was removed. The observation was closed on 20 April 2017.
2. The Contractor was reminded to remove stagnant water accumulated at CUE works area. Subsequently, stagnant water was removed. The observation was closed on 20 April 2017.

20 April 2017

1. The Contractor was reminded to provide drip tray for the chemical containers at Building 037. Subsequently, drip trays were provided. The observation was closed on 28 April 2017.
2. The Contractor was reminded to increase watering for dust suppression on site. Subsequently, watering was increased for dust suppression. The observation was closed on 28 April 2017.

28 April 2017

1. The Contractor was reminded to remove stagnant water accumulated at drip trays at CUE works area. Subsequently, stagnant water at drip trays was removed. The observation was closed on 05 May 2017.
2. The Contractor was reminded to improve housekeeping at Bridge A7. The Contractor was reminded to improve housekeeping at Bridge A7. Subsequently, housekeeping was improved. The observation was closed on 05 May 2017.

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05 May 2017

1. The Contractor was reminded to provide drip trays for chemical containers at Building 037. Subsequently, drip trays were provided. The observation was closed on 11 May 2017.
2. The Contractor was reminded to remove general waste accumulated at Building 037. Subsequently, general waste was removed. The observation was closed on 11 May 2017.

11 May 2017

1. The Contractor was reminded to increase watering for dust suppression on site. Subsequently, watering was increased for dust suppression. The observation was closed on 18 May 2017.
2. The Contractor was reminded to remove stagnant water accumulated at Building 040. Subsequently, stagnant water was removed. The observation was closed on 18 May 2017.

18 May 2017

1. The Contractor was reminded to remove stagnant water accumulated at Building 041. Subsequently, stagnant water was removed. The observation was closed on 26 May 2017.
2. The Contractor was reminded to remove general waste accumulated at A9 Bridge. Subsequently, general waste was removed. The observation was closed on 26 May 2017.

26 May 2017

1. The Contractor was reminded to remove general and construction waste accumulated on site. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.
2. The Contractor was reminded to remove stagnant water accumulated on site. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

02 March 2017

1. Nil findings.

09 March 2017

1. Nil findings.

16 March 2017

1. Nil findings.

24 March 2017

1. Nil findings.

30 March 2017

1. Nil findings.

05 April 2017

1. Nil findings.

12 April 2017

1. Nil findings.

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20 April 2017

1. Nil findings.

28 April 2017

1. Nil findings.

05 May 2017

1. Nil findings.

11 May 2017

1. Nil findings.

18 May 2017

1. Nil findings.

26 May 2017

1. Nil findings.

The Contractor has rectified most of the observations as identified during environmental site inspections during the reporting period. Follow-up actions for outstanding observations will be inspected during the next site inspections.

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Appendix G

Waste Flow Table



Monthly Summary of Waste Flow Table for 2017 (year)

Name of Person completing the Record: Marko Chan

Month	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of Non-inert C&D Wastes Generated Monthly				
	Total Quantity Generated (in '000m ³)	Broken Concrete (see Note 1) (in '000m ³)	Reused in the Contract (in '000m ³)	Reused in other Projects (in '000m ³)	Disposed as Public Fill (in '000m ³)	Metals (in '000 Kg)	Paper/ cardboard packaging (in '000 Kg)	Plastics (see Note 2) (in '000 Kg)	Chemical Waste (in '000 Kg)	Others, e.g. general refuse (in '000m ³)
Jan	0.000	0	0	0	0.000	0	0	0	0	0.580
Feb	0.000	0	0	0	0.000	0	0	0	0	0.585
Mar	0.000	0	0	0	0.000	0	0	0	0	0.999
Apr	0.043	0	0	0	0.043	0	0	0	0	1.073
May	12.682	0	0	12.637	0.045	0	0	0	0	1.321
Jun										
Jul										
Aug										
Sept										
Oct										
Nov										
Dec										
Total	12.725	0.000	0.000	12.637	0.088	0.000	0.000	0.000	0.000	4.558

Notes:

- (1) Broken concrete for recycling into aggregates.
- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (3) In order to convert the quantities of inert C&D materials reused in other projects (29,065 tonnes) from tonnes to m³, a conversion factor is used and shown as follows:
 $Volume (in m^3) = Mass (in tonnes) / 2.3 (in tonnes/ m^3)$
 Where 2.3 (in tonnes/ m³) is the density of surplus filling materials provided by the Contractor

Monthly Summary of Excavated Marine Sediment for 2017 (year)

Month	Total Quantity of Excavated Marine Sediment Generated in '000m ³	Reused in this contract in '000m ³	Reused in other Projects in '000m ³	Disposed of at CMP in '000m ³
Jan	0.656	0.000	0.000	0.656
Feb	0.264	0.000	0.000	0.264
Mar	0.000	0.000	0.000	0.000
Apr	1.288	0.000	0.000	1.288
May	1.440	0.000	0.000	1.440
Jun				
Jul				
Aug				
Sep				
Oct				
Nov				
Dec				
Total	3.648	0.000	0.000	3.648



ATAL Technologies Ltd.
 Contract No. HY/2013/06 HKBCF Automatic Vehicle Clearance Support System
 Location: Artificial Island of HKIAP (C3 Area)

Ver. 1st
 Date: Jan 2017

Monthly Summary Waste Flow Table for 2017

Month	Inert C&D Waste disposal / 廢性廢物 (in tonnes) (see Note 1)				Non-inert C&D Waste disposal 非廢性廢物 (in tonnes)				Waste to be recycled and returned / 可再循環利用或回收的廢物								Total Quantity Generated 總生產量	
	Reused in the Work Package (e.g. backfilling) 再用於工程 (如回填)		Reused in other Projects 再用於其他工程		Inert Waste (e.g. soil, broken concrete, rubble, fill material etc.) 廢性廢物 (如泥, 石失頭, 石, 填料等)		Others (e.g. general refuse, broken formwork etc) 其他 (如垃圾, 廢板枋等)		Metals 金屬		Plastic 塑膠		Paper/cardboard packaging 廢紙/包裝紙類		Chemical Waste 化學廢物		Est. Qty. 估計數量	Act. Qty. 實際數量
	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量		
January	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	
February	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	
March	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.002	0.002	
April	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.005	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.005	0.005	
May	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.020	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.020	
June																		
July																		
August																		
September																		
October																		
November																		
December																		
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.027	0.027	0.030	0.000	0.000	0.004	0.004	0.000	0.000	0.027	0.027	

Notes: (1) The quantities of C&D Materials, in tonne, was calculated by multiply the estimated volume, in m3, with the density of the soil, which is 1.5 gcm⁻³.

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Appendix H

Environmental Licenses and Permits

Appendix H - Environmental Permit / Licences Summary for Contract No. HY/2013/03

Item	Permit/Licence Registration	Permit No.	Work Area	Application Date	Issue Date	Valid Date		Status	Remark
						From	To		
1	Environmental Permit Pursuant to Environmental Impact Assessment Ordinance Notification	EP-353/2009/K	HKBCF	24-Mar-16	11-Apr-16	11-Apr-16	Nil	Valid	
2	Pursuant to Section 3(1) of The Air Pollution Control (Construction Dust) Regulation Notification	RefNo. 387703	Main Site Area	15-Apr-15	15-Apr-15	15-Apr-15	Nil	Valid	
3	Pursuant to Section 3(1) of The Air Pollution Control (Construction Dust) Regulation Notification	RefNo. 387735	Works Area WA3	15-Apr-15	15-Apr-15	15-Apr-15	Nil	Valid	
4	Billing A/C for Construction Waste Disposal Pursuant to Section 6 & 9 of the Waste Disposal (Charges for Disposal of Construction waste) Regulation	A/C No. 7022228	Main Site Area, WA3 & 4	15-Apr-15	06-May-15	06-May-15	Nil	Valid	
5	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	5213-951-C1186-28	Main Site Area	28-Apr-15	01-Jun-15	01-Jun-15	Nil	Valid	
6	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	5213-974-C3597-03	Works Area WA4	28-Apr-15	01-Jun-15	01-Jun-15	Nil	Valid	
7	Water Discharge License Pursuant to Water Pollution Control Ordinance (Cap 358)	WT00022180-2015	Works Area WA3	29-Apr-15	04-Aug-15	03-Aug-15	31-Aug-20	Valid	
8	Water Discharge License Pursuant to Water Pollution Control Ordinance (Cap 358)	WT00025384-2016	Main Site Area	09-Mar-16	10-Nov-16	10-Nov-16	30-Sep-20	Valid	
9	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	PP-RS0028-16	Portion A, G, H & N	15-Sep-16	29-Sep-16	03-Oct-16	02-Apr-17	Valid until 02-Apr-17	
10	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS1267-16	Main Site Area	02-Dec-16	16-Dec-16	19-Dec-16	18-Mar-17	Valid until 18-Mar-17	
11	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS1329-16	Main Site Area	09-Dec-16	23-Dec-16	01-Jan-17	30-Apr-17	Valid until 30-Apr-17	
12	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0205-17	Main Site Area	01-Mar-17	15-Mar-17	19-Mar-17	18-Jun-17	Valid from 19-Mar-17	
13	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	PP-RS0008-17	Box Culvert B	06-Apr-17	20-Apr-17	21-Apr-17	19-Jul-17	Valid from 21-Apr-17	
14	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0382-17	Main Site Area	10-Apr-17	25-Apr-17	27-Apr-17	24-Jul-17	Valid from 27-Apr-17	

15	Permit issued Under the Dumping at Sea Ordinance	EP/MD/17-170	East of Sha Chau (CMP Vd)	12-Jan-17	24-Jan-17	05-Feb-17	04-Mar-17	Valid until 04-Mar-17	
16	Permit issued Under the Dumping at Sea Ordinance	EP/MD/17-190	East of Sha Chau (CMP Vd)	01-Mar-17	17-Mar-17	20-Mar-17	19-Apr-17	Valid from 20-Mar-17 to 19-Apr-17	
17	Permit issued Under the Dumping at Sea Ordinance	EP/MD/18-005	East of Sha Chau (CMP Vd)	10-Apr-17	24-Apr-17	25-Apr-17	24-May-17	Valid from 25-Apr-17 to 24-May-17	

Environmental Permit / Licences Summary for Contract No. HY/2013/06 within the HY/2013/03 site works area

Item	Permit/Licence Registration	Permit No.	Work Area	Application Date	Issue Date	Valid Date		Status	Remark
						From	To		
1	Environmental Permit Pursuant to Environmental Impact Assessment Ordinance	EP-353/2009/K	HKBCF	24-Mar-16	11-Apr-16	11-Apr-16	Nil	Valid	
2	Billing A/C for Construction Waste Disposal Pursuant to Section 6 & 9 of the Waste Disposal (Charges for Disposal of Construction waste) Regulation	A/C No. 7023015	Main Site Area	07-Aug-15	20-Aug-15	20-Aug-15	Nil	Valid	
3	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	#

The Contractor of Contract No. HY/2013/06 was advised to register as a chemical waste producer when chemical waste is expected to generate for the foreseeable future from the operations.

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Appendix I

Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions

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Appendix I –

Statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

For Contract No. HY/2013/03

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This reporting period	3	0	0
From commencement date of construction to end of reporting period	8	0	0

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This reporting period	0	0	0
From commencement date of construction to end of reporting month	0	0	0

