

Ref.: HYDHZMBEEM00_0_5901L.17

17 October 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. Malcolm Sage

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/2014/05 – HZMB HKBCF – Remaining Ancillary Buildings and Facilities

Monthly Environmental Monitoring & Audit Report for September 2017

Reference is made to the Environmental Team's submission of Monthly Environmental Monitoring & Audit Report for September 2017 (Rev. 2) certified by the ET Leader (ET's ref.: "5140819/18.30/OC040/KC/RL" dated 17 October 2017) and provided to us via e-mail on 17 October 2017.

We are pleased to inform you that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 5.4 of the Environmental Permit No. EP-353/2009/K.

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

Rongent

Raymond Dai Independent Environmental Checker

c.c.

HyD HyD Atkins

Mr. Vico Cheung Mr. Ken Woo Mr. Keith Chau Mr. Iain Hubert (By Fax: 3188 6614) (By Fax: 3188 6614) (By Fax: 2890 6343) (By Fax: 3621 0180)

Internal: DY, YH, PSC, ENPO Site

LCWJV

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Your ref. 5140819/18.30/OC040/KC/RL

Date: 17 October 2017

By Post and e-mail (Stephen.Tsang@lcwjv.com)

Leighton – Chun Wo Joint Venture 39/F Sun Hung Kai Centre 30 Harbour Road Hong Kong

Attn: Mr. Stephen Tsang

Dear Mr. Tsang,

Contract No. HY/2014/05 Hong Kong – Zhuhai – Macao Bridge Hong Kong Boundary Crossing Facilities – Remaining Ancillary Buildings and Facilities Certification of Monthly EM&A Report No. 19

Atkins China Limited certifies, in the capacity of Environmental Team Leader, that the Monthly EM&A Report No. 19 for September 2017 (Revision 2) conforms the requirements provided in Condition 5.4 of the Environmental Permit No. EP-353/2009/K.

Yours faithfully, for and on behalf of Atkins China Limited

Keith Chau Environmental Team Leader

cc.

- 1. AECOM Mr. Malcolm Sage (By Fax.: 3468 2076)
- 2. IEC/ENPO Mr. Raymond Dai & Mr. Y.H. Hui (By Fax.: 3465 2899)



Contract No. HY/2014/05

Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Remaining Ancillary Buildings and Facilities

Monthly EM&A Report No. 19 (Covering the Period from 1 September 2017 to 30 September 2017)

16 October 2017

Revision 2

Main Contractor



Leighton - Chun Wo Joint Venture **Environmental Team**





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Executive Summary

This Monthly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2014/05 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HZMB HKBCF) – Remaining 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 and Contract No. HY/2014/04 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System and Contract No. HY/2014/04 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Gantry Type X-ray Vehicle Inspection System within Contract No. HY/2014/05 works area) (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR). Contract No. HY/2013/06 was awarded to Leighton – Chun Wo Joint Venture (construction works of Contract No. HY/2013/06 was awarded to ATAL Technologies Limited and Contract No. HY/2014/04 was awarded to Rapiscan Systems Pte Ltd within Contract No. HY/2014/05 works area) (hereafter referred to as "the Contractor") and Atkins China Limited was appointed as the Environmental Team (ET) by the Contractor.

Contract No. HY/2014/05 (includes the construction works of Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area) is part of HZMB HKBCF Project which is a "Designated Project" under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap 499) and Environmental Impact Assessment (EIA) Report (Register No. AEIAR-145/2009) was prepared for the Project. The current Environmental Permit (EP) No. EP-353/2009/K for HKBCF was issued on 11 April 2016. These documents are available through the EIA Ordinance Register. The construction works of the Contract No. HY/2014/05 commenced on 29 February 2016 while the construction works of the Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area commenced on 3 January 2017 and 13 February 2017 respectively.

Atkins China Limited 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 to the Contract.

This is the nineteenth monthly EM&A Report for the Contract No. HY/2014/05 which summarizes findings of the EM&A works during the reporting period from 1 to 30 September 2017 (includes the construction works of Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area).

Environmental Monitoring and Audit Progress

The monthly EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKBCF (Version 1.0). It should be noted that air quality and noise monitoring works for the Contract are covered by Contract No. HY/2013/01 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HZMB HKBCF) – Passenger Clearance Building 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 as part of EM&A programme if these monitoring stations are no longer covered under Contract Nos. HY/2013/01 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 the Contract No. HY/2014/05 (includes the construction works of Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area) during the reporting period are listed below:

Environmental Site Inspection:

4, 13, 18 and 25 September 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 shall be referred to 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 AMS7 by the Environmental Team of Contract No. HY/2013/01 during the reporting period.

There was no Action and Limit Level exceedance for noise recorded at NMS2 and NMS3B by the Environmental Team of Contract No. HY/2013/01 during the reporting period.





Complaint Log

There was no complaint received in relation to the environmental impact during the reporting period.

Notifications of Summons and Successful Prosecutions

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

Reporting Change

Implementation of environmental monitoring at noise monitoring station (i.e.NMS2, NMS3B) and at air monitoring station (i.e.AMS7) have been conducted by the ET of Contract No. HY/2013/01 of which noise monitoring station-NMS3B and the meteorological station have been slightly re-located to AECOM PRE's Office without re-branding since 1 September 2017.



Future Key Issues

The future key issues to be undertaken in the upcoming month include:

For Contract No. HY/2014/05

- Architectural Builder's Work and Finishes (ABWF) & Mechanical, Electrical and Plumbing works (MEP) - Internal work of Buildings 021, 022, 023, 025, 032, 044, 045, 050H1, 050H2, 050A1, 050A2, 053, 058 & 059
- Utilities and Drainage installation of Building 022, 023, 025, 032, 044, 045, 053, 058, 059, 050H1, 050A1 & 050A2.
- Installation of Lift of Building 023, 044, 053
- Photovoltaic (PV) Installation and Steel Canopy of Building 023
- Construction of Planter Box and Ramp of Building 023
- Construction of Dog Swimming Pool of Building 022

For Contract No. HY/2013/06 within Contract No. HY/2014/05 works area

• Conceal Conduit Installation at Buildings 023, 025 and 032

For Contract No. HY/2014/04 within Contract No. HY/2014/05 works area

- Furniture Delivery at Buildings 053 and 054
- Cabling Works at Buildings 058 and 059





Introduction

1.1 Basic Project Information

- 1.1.1 This Monthly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2014/05 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HZMB HKBCF) – Remaining 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 and Contract No. HY/2014/04 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Gantry Type X-ray Vehicle Inspection System within Contract No. HY/2014/05 works area) (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR). Contract No. HY/2014/05 was awarded to Leighton – Chun Wo Joint Venture (construction works of Contract No. HY/2013/06 was awarded to ATAL Technologies Limited and Contract No. HY/2014/04 was awarded to Rapiscan Systems Pte Ltd within Contract No. HY/2014/05 works area) (hereafter referred to as "the Contract No. HY/2014/05 works area) (hereafter referred to as "the Contractor") and Atkins China Limited was appointed as the Environmental Team (ET) by the Contractor.
- 1.1.2 Contract No. HY/2014/05 (includes the construction works of Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area) is part of HZMB HKBCF which is a "Designated Project" under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap 499). An Environmental Impact Assessment (EIA) Report (Register No. AEIAR-145/2009) was prepared for the Project. The current Environmental Permit (EP) No. EP-353/2009/K for HKBCF was issued on 11 April 2016. These documents are available through the EIA Ordinance Register. The construction works of the Contract No. HY/2014/05 commenced on 29 February 2016 while the construction works of the Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area commenced on 3 January 2017 and 13 February 2017 respectively. The works areas of the Contract are shown in **Appendix A**.
- 1.1.3 The proposed works under this Contract comprise the following:

For Contract No. HY/2014/05

- (i) Construction of the following ancillary buildings and facilities including architectural and builder works, structural steel canopy, reinforced concrete frames, foundations, curtain wall facade, building services and electrical and mechanical works:
 - Public Toilets at Vehicle Clearance Plaza (VCP);
 - Customs and Excise Department (C&ED) Dangerous Good Store (Building 021);
 - Customs Detective Dog Base Building (Building 022);
 - C&ED Outbound Cargo Examination Building and Examination Platform (Building 023);
 - Inbound Private Car Annexure (Building 025);
 - Outbound Private Car Annexure (Building 032);
 - E&M maintenance Building (Building 044);
 - Highways Depot & Administration Building (Building 045);
 - Outbound X-ray Building (Building 053);
 - Outbound X-ray Scan Tunnel (Building 058); and
 - Inbound X-ray Scan Tunnel (Building 059).
- (ii) Construction of civil provisions, cable containment and power supply for the following systems:
 - Automatic Vehicle Clearance Support System (AVCSS) installed by Contract No. HY/2013/06; and





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- Gantry Type X-ray Vehicle Inspection System installed by Contract No. HY/2014/04.
- (iii) Supply and installation of Mobile X-ray Vehicle Inspection System and other standalone equipment;
- (iv) Construction of minor civil engineering works at the periphery of buildings;
- (v) Construction of minor Landscape hardworks and softworks; and
- (vi) Other works which are shown on Drawings or specified in the Specification or which may be ordered in accordance with the Contract.

For Contract No. HY/2013/06 within Contract No. HY/2014/05 works area

- (i) The Automatic Vehicle Clearance Support System amid to increasing traffic flow for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities;
- (ii) Responsible for designs and develops a set of tailor-made computer monitoring and control systems to for daily security operation; and
- (iii) The Clearance Workstations at 72 vehicle clearance kiosks, Customs and Excise's inbound and outbound traffic control centers as well as a Vehicle Tracking System.

For Contract No. HY/2014/04 within Contract No. HY/2014/05 works area

- (i) The Gantry Type X-ray Vehicle Inspection System (GXRVIS) aims to provide an integrated, innovative, efficient and effective vehicle inspection system at the inbound and outbound boundary control points of Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) for supporting the operations of Customs & Excise Department (C&ED);
- (ii) Design, supply, deliver to HKBCF, installation, test and commissioning and maintenance of two sets of Gantry Type X-ray Vehicle Inspection System and all related components necessary for the complete operation of the system; and
- (iii) Design, supply, install, test, commission and maintain of the Radioactive Threat Detection Systems integrated into the Gantry Type X-ray Vehicle Inspection Systems.
- 1.1.4 This is the nineteenth Monthly EM&A Report for the Contract No. HY/2014/05 which summarizes the findings of the EM&A programme during the reporting period from 1 to 30 September 2017. (includes the construction works of Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area).

1.2 **Project Organisation**

1.2.1 The project organization structure and lines of communication with respect to the on-site environmental management structure is shown in **Appendix B**. The key personnel contact names and numbers are summarized in **Table 1-1**.

Party	Position	Name	Telephone	Fax
For Contract No. HY/2014/05				
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Registered Architect	Malcolm Sage	3958 7330	3468 2076
Environmental Project Office / Independent Environmental Checker	Environmental Project Office Leader	Y. H. Hui	3465 2888	3465 2899

 Table 1-1
 Contact Information of Key Personnel





Party	Position	Name	Telephone	Fax
(Ramboll Environ Hong Kong Limited)	Independent Environmental Checker	Raymond Dai	3465 2888	3465 2899
Contractor	Site Agent	Albert Chan	3973 0514	3621 0180
(Leighton – Chun Wo Joint Venture)	Environmental Officer	Stephen Tsang	3973 1806	3621 0180
Environmental Team (Atkins China Limited)	Environmental Team Leader	Keith Chau	2972 1721	2890 6343
24 hours complaint hotline			3958 7300	
For Contract No. HY/2013/	06 within Contract No	. HY/2014/05 works	<u>s area</u>	
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Registered Architect	Malcolm Sage	3958 7330	3468 2076
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong	Environmental Project Office Leader	Y. H. Hui	3465 2888	3465 2899
Kong Limited)	Independent Environmental Checker	Raymond Dai	3465 2888	3465 2899
Contractor	Site Agent	Mr. Eric Yim	2565 3355	3162 5217
(ATAL Technologies Limited)	Environmental Officer	Mr. W. Li	2565 3137	3162 5217
Environmental Team (Atkins China Limited)	Environmental Team Leader	Keith Chau	2972 1721	2890 6343
24 hours complaint hotline			6509 0375	
For Contract No. HY/2014/	04 within Contract No	. HY/2014/05 works	area	<u></u>
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Registered Architect	Malcolm Sage	3958 7330	3468 2076
Environmental Project Office / Independent Environmental Checker	Environmental Project Office Leader	Y. H. Hui	3465 2888	3465 2899
(Ramboll Environ Hong Kong Limited)	Independent Environmental Checker	Raymond Dai	3465 2888	3465 2899
Contractor	Site Agent	Ringo Yau	9833 1402	2707 0816
(Rapiscan Systems Pte Ltd)	Environmental Officer	Clarie Tsang	6371 1362	
Environmental Team (Atkins China Limited)	Environmental Team Leader	Keith Chau	2972 1721	2890 6343





	Party	Position	Name	Telephone	Fax
-	24 hours complaint hotline			9833 1420	

1.3 Construction Programme

- 1.3.1 A copy of the Contractor's construction programme is provided in **Appendix C**.
- 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: <u>For Contract No. HY/2014/05</u>

- ABWF & MEP works (Internal) of Buildings 021, 022, 023, 025, 032, 044, 045, 050H1, 050H2, 050A1, 050A2, 053, 058 & 059
- Utilities and Drainage installation of Building 022, 023, 025, 032, 044, 045, 053, 058, 059, 050H1, 050A1 & 050A2
- Installation of Lift of Building 023, 044, 053
- PV Installation and Steel Canopy of Building 023
- Construction of Planter Box and Ramp of Building 023
- Dog Swimming Pool of Building 022

For Contract No. HY/2013/06 within Contract No. HY/2014/05 works area

• No works were undertaken at Building 023, 025 and 032

For Contract No. HY/2014/04 within Contract No. HY/2014/05 works area

- Furniture Delivery at Buildings 053 and 054
- Cabling works at Buildings 058 and 059





2 Air Quality Monitoring

2.1 Monitoring Locations

- 2.1.1 The air quality monitoring works for the Contract are covered by Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road Section between Scenic Hill and HKBCF and Contract No. HY/2013/01 HZMB HKBCF Passenger Clearance Building.
- 2.1.2 The ET of the Contract or another ET of the HZMB project is required to conduct air quality monitoring at AMS6 and AMS7 as part of EM&A programme if these air quality monitoring stations are no longer covered under Contract Nos. HY/2011/03 and HY/2013/01. **Figure 2.1** shows the locations of the air monitoring stations.

Table 2-1	Construction	Dust Monitoring	Locations
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ID	Location Description
AMS 6 ⁽¹⁾	Dragonair/CNAC (Group) Building
AMS 7 ⁽¹⁾	Hong Kong SkyCity Marriott Hotel

Remark:

(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 the latest notification from ENPO when the monitoring station(s) is/are no longer covered by another ET of the HZMB project.

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/2011/03 and HY/2013/01.
- 2.2.2 The Action and Limit Levels for 1-hr TSP and 24-hr TSP are provided in **Table 2-2** and **Table 2-3**, respectively.

Table 2-2 Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level, µg/m ³	Limit Level, µg/m³
AMS 6 – Dragonair / CNAC (Group) Building (HKIA)	360	500
AMS 7 - Hong Kong SkyCity Marriott Hotel	370	500

Table 2-3 Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level, µg/m ³	Limit Level, µg/m³
AMS 6 – Dragonair / CNAC (Group) Building (HKIA)	173	260
AMS 7 - Hong Kong SkyCity Marriott Hotel	183	260

- 2.2.3 The event and action plan is provided in **Appendix D**.
- 2.2.4 If exceedance(s) at these station(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 monthly EM&A Report.





2.3 Monitoring Results

- 2.3.1 The monitoring results for AMS6 and AMS7 are reported in the monthly EM&A Reports prepared for Contract Nos. HY/2011/03 and HY/2013/01, respectively.
- 2.3.2 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 Report prepared by Contract No. HY/2011/03.
- 2.3.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at AMS7 recorded by the ET of Contract No. HY/2013/01 during the reporting period.





3 Noise Monitoring

3.1 Monitoring Locations

3.1.1 The noise monitoring works for the Contract are covered by Contract No. HY/2013/01 HZMB HKBCF – Passenger Clearance Building. The ET of the Contract or another ET of the HZMB project is required to conduct impact noise monitoring at NMS2 and NMS3B as part of EM&A programme if these noise monitoring stations are no longer covered under Contract No. HY/2013/01. **Figure 3.1** shows the locations of noise monitoring stations.

Table 3-1	Construction	Noise	Monitoring	Locations
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ID	Location Description
NMS2 ⁽¹⁾	Seaview Crescent
NMS3B ⁽¹⁾⁽²⁾	Site Boundary of Site Office Area at Works Area WA2

Remarks:

- (1) 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.
- (2) The Action and Limit Levels for schools will be applied for this alternative monitoring location.

3.2 Monitoring Requirements

- 3.2.1 The monitoring requirements, monitoring equipment, monitoring parameters, frequency and duration, monitoring methodology and monitoring schedule are detailed in the monthly EM&A Reports prepared for Contract Nos. HY/2013/01.
- 3.2.2 The Action and Limit Levels for construction noise are defined in Table 3-2.

Table 3-2 Action and Limit Level for Construction Noise

Parameter	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received	75 dB(A)*

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.

* Limit level is 70 dB(A) for schools and 65 dB(A) during school examination period.

- 3.2.3 The event and action plan is provided in **Appendix D**.
- 3.2.4 If exceedance(s) at these station(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 monthly EM&A Report.

3.3 Monitoring Results

3.3.1 The monitoring results for NMS2 and NMS3B are reported in the monthly EM&A Reports prepared for Contract No. HY/2013/01. No noise exceedances were recorded at stations NMS2 and NMS3B by the ET of Contract No. HY/2013/01 during the reporting period.





Environmental Site Inspection and Audit

4.1 Site Inspection

- 4.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Contract No. HY/2014/05 (includes the construction works of Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area). During the reporting period, site inspections were carried out on 4, 13, 18 and 25 September 2017.
- 4.1.2 Particular observations for Contract No. HY/2014/05 and Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area during the site inspections and corrective actions undertaken by the Contractor are described in **Tables 4-1, 4-2 and 4-3**.

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
28 August 2017	 General refuse and stagnant water were observed at Building 023. No drip tray was provided for chemical containers outside Building 023. 	stagnant water was cleared at Building 023.	4 September 2017
4 September 2017	 A stock of more than 20 bags of cement were not covered at Building 023. No drip tray was provided for a chemical container outside Building 023. 	bags of cement at Building 023 was removed.	13 September 2017
13 September 2017	1. Stagnant water was accumulated inside a drip tray for the chemical container outside Building 025.	1. The stagnant water accumulated inside the drip tray for the chemical container outside Building 025 was cleared.	18 September 2017
18 September 2017	 A stock of more than 20 bags of cement was not covered properly outside Building 025. No proper chemical labels and drip tray were provided for chemical containers outside Building 044. 		25 September 2017
25 September 2017	 The opened cement bags were not covered at Building 022. The cement packages were scattered around the room at Building 022. No proper label and drip tray were provided for a chemical container outside Building 022. 	reminded to cover the opened cement bags properly at Building 022. 2. The Contractor was	Follow-up action undertaken by the Contractor will be inspected during the site inspection to be undertaken in October 2017.

 Table 4-1
 Summary of Environmental Site Inspections for Contract No. HY/2014/05





Table 4-2 Summary of Environmental Site Inspections for Contract No. HY/2013/06 within Contract No. HY/2014/05 works area

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
4 September 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
13 September 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
18 September 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
25 September 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.

Table 4-3 Summary of Environmental Site Inspections for Contract No. HY/2014/04 within Contract No. HY/2014/05 works area

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
4 September 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
13 September 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
18 September 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
25 September 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.

- 4.1.1 The Contractor has rectified most of the observations as identified during environmental site inspections during this reporting month. Follow-up actions for outstanding observations will be inspected in October 2017.
- 4.2 Advice on the Solid and Liquid Waste Management Status
- 4.2.1 The Contractor of Contract No. HY/2014/05 registered as a chemical waste producer. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 4.2.2 The Contractor of Contract No. HY/2014/05 was reminded that chemical waste should be properly treated and stored temporarily in designated chemical waste storage areas on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.





4.2.3 The monthly summary of waste flow table for Contract No. HY/2014/05 (includes the construction works of Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area) are detailed in **Appendix E**.

4.3 Environmental Licenses and Permits

- 4.3.1 The valid environmental licenses and permits for Contract No. HY/2014/05 during the reporting period (includes the construction works of Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area) are summarized in **Appendix F**.
- 4.3.2 The Contractors of Contract No. HY/2013/06 and Contract No. HY/2014/04 were advised to register as a chemical waste producer when chemical waste will be expected to generate for the foreseeable future from the operations (For Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation).
- 4.4 Implementation Status of Environmental Mitigation Measures
- 4.4.1 In response to the site audit findings, the Contractors carried out corrective actions.
- 4.4.2 The Contractor conducts watering on all exposed soil within the Contract site and associated works areas 8 times per day when construction activities are being undertaken.
- 4.4.3 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix G**. Most of the necessary mitigation measures were implemented properly.

4.5 Summary of Exceedance of the Environmental Quality Performance Limit

- 4.5.1 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 report prepared by Contract No. HY/2011/03.
- 4.5.2 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at AMS7 by the Environmental Team of Contract No. HY/2013/01 during the reporting period.
- 4.5.3 There was no Action and Limit Level exceedance for noise recorded at NMS2 and NMS3B by the Environmental Team of Contract No. HY/2013/01 during the reporting period.

4.6 Summary of Complaints, Notification of Summons and Successful Prosecution

- 4.6.1 There was no complaint received in relation to the environmental impact during the reporting period. The details of cumulative statistics of Environmental Complaints are provided in **Appendix H**.
- 4.6.2 Statistics on environmental complaints, notifications of summons and successful prosecutions are summarized in **Appendix H**.





5 Future Key Issues

5.1 Construction Programme for the Coming Months

5.1.1 As informed by the Contractor, the major construction activities for October 2017 are summarized in **Table 5-1**.

Table 5-1 Construction Activities for October 2017

Site Area	Description of Activities
For Contract No. HY/2014/05	
Buildings 021, 022, 023, 025, 032, 044, 045, 050H1, 050H2, 050A1, 050A2, 053, 058 & 059	ABWF & MEP works (Internal)
Buildings 022, 023, 025, 032, 044, 045, 053, 058, 059, 050H1, 050A1 & 050A2	Utilities and Drainage Installation
Building 023	Construction of Planter Box and Ramp
Building 023	PV Installation and Steel Canopy
Buildings 023, 044 and 053	Installation of Lift
Building 022	Dog Swimming Pool Construction
For Contract No. HY/2013/06 within Contract N	lo. HY/2014/05 works area
Buildings 023, 025 and 032	Conceal Conduit Installation
For Contract No. HY/2014/04 within Contract N	lo. HY/2014/05 works area
Buildings 058 and 059	Cabling Works
Buildings 053 and 054	Furniture Delivery

5.2 Environmental Site Inspection Schedule for the Coming Month

5.2.1 The tentative schedule for weekly site inspections for October 2017 is provided in **Appendix I**.





6 Conclusions

6.1 Conclusions

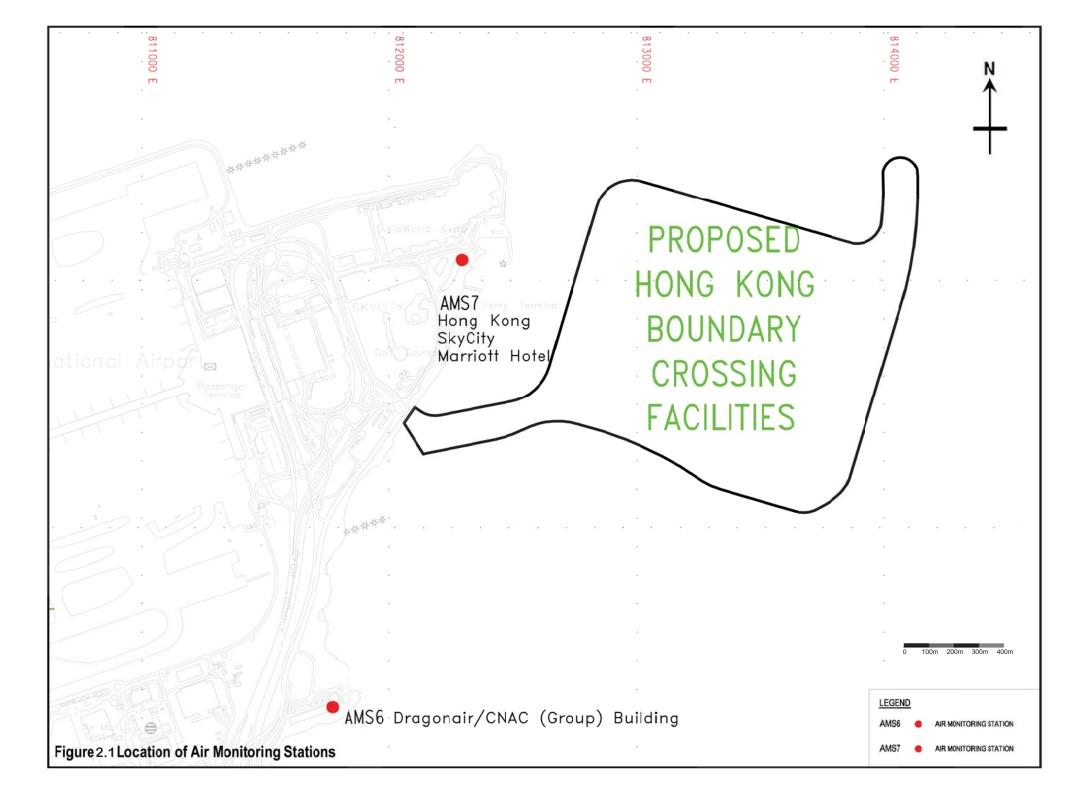
- 6.1.1 The construction works of the Contract No. HY/2014/05 commenced on 29 February 2016. while the construction works of the Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area commenced on 3 January 2017 and 13 February 2017 respectively. The nineteenth Monthly EM&A Report for Contract No. HY/2014/05 summarizes findings of the EM&A works during the reporting period from 1 to 30 September 2017 (includes the construction works of Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area).
- 6.1.2 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 Report prepared by Contract No. HY/2011/03.
- 6.1.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at AMS7 by the Environmental Team of Contract No. HY/2013/01 during the reporting period.
- 6.1.4 There was no Action and Limit Level exceedance for noise recorded at NMS2 and NMS3B by the Environmental Team of Contract No. HY/2013/01 during the reporting period.
- 6.1.5 Environmental site inspections were carried out on 4, 13, 18 and 25 September 2017 for the Contract No. HY/2014/05 (includes the construction works of Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area). Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.
- 6.1.6 There was no complaint received in relation to the environmental impact during the reporting period.
- 6.1.7 No notification of summons and successful prosecution was received during the reporting period.

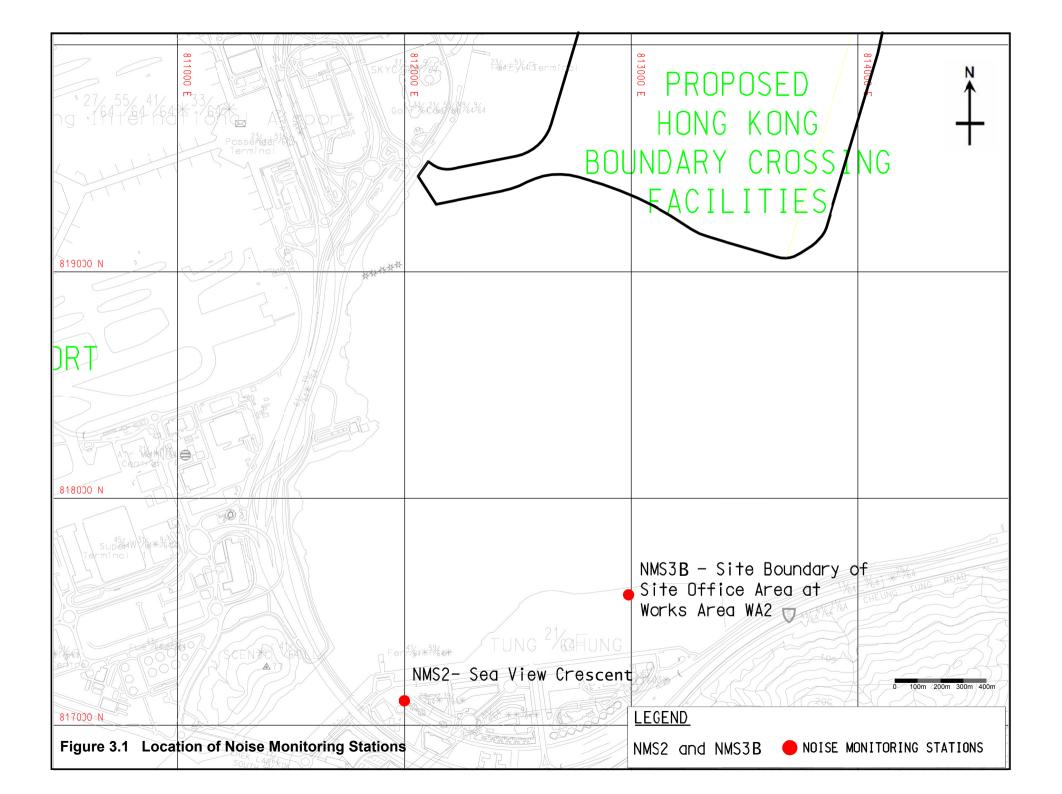




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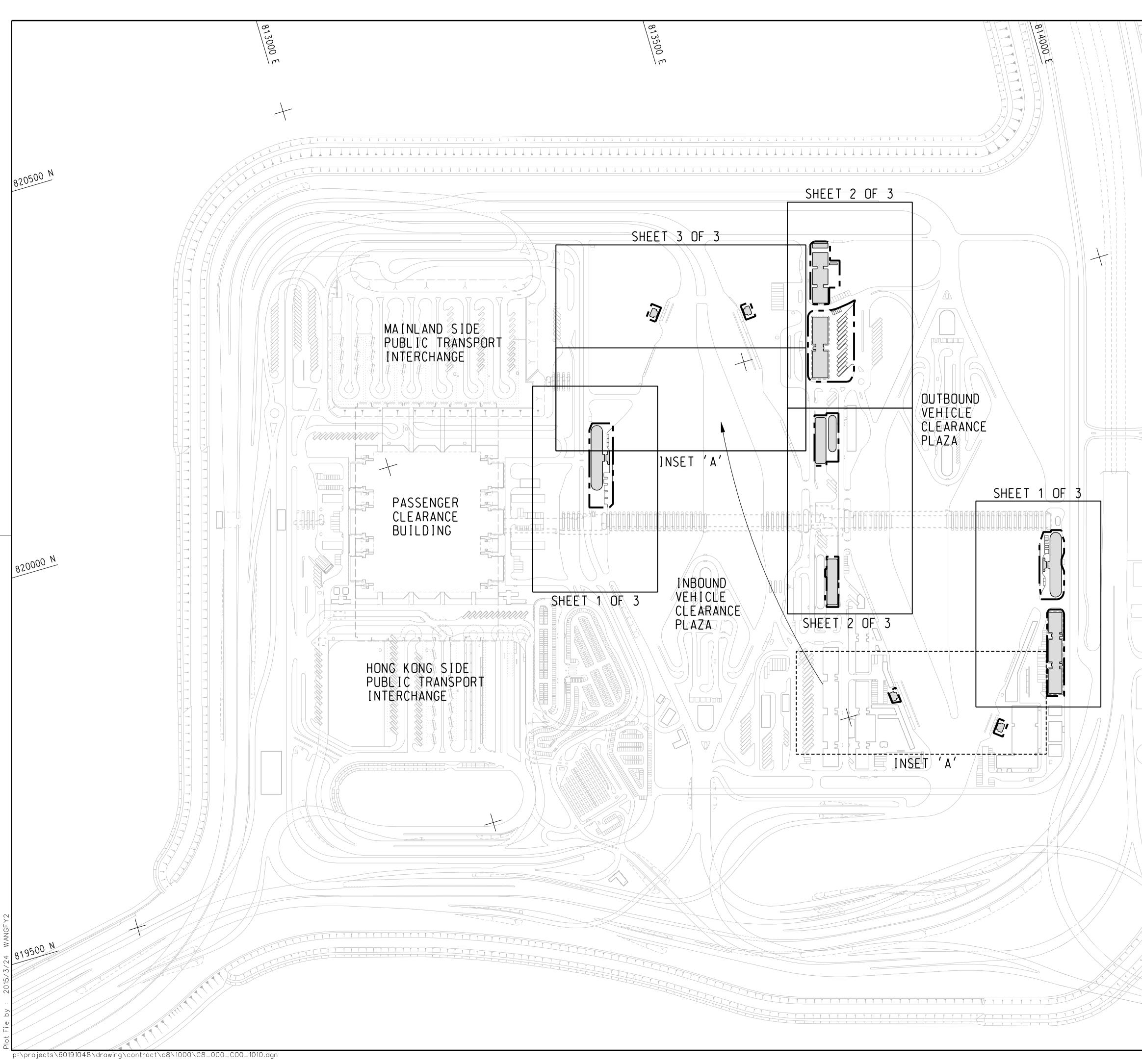




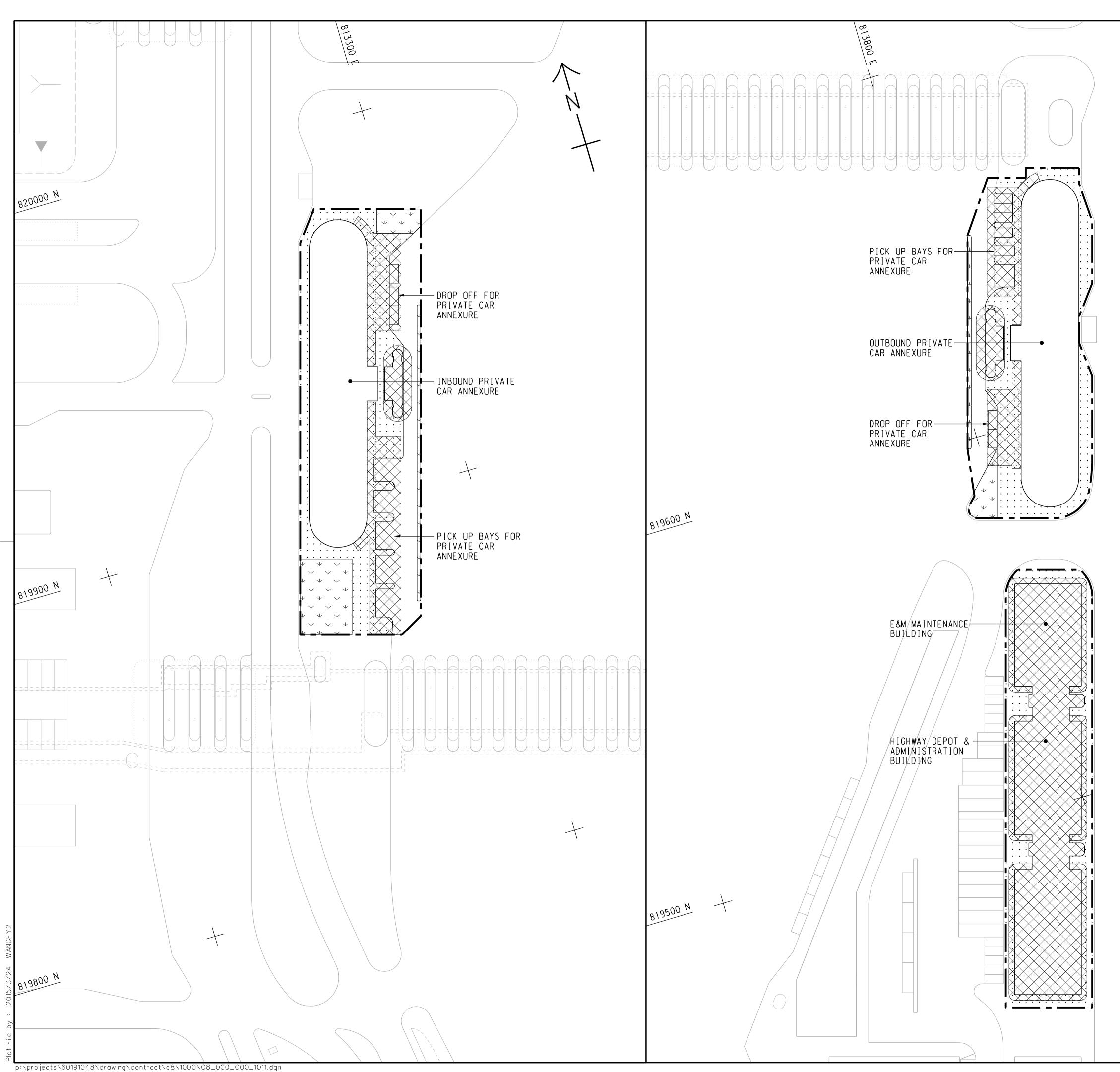


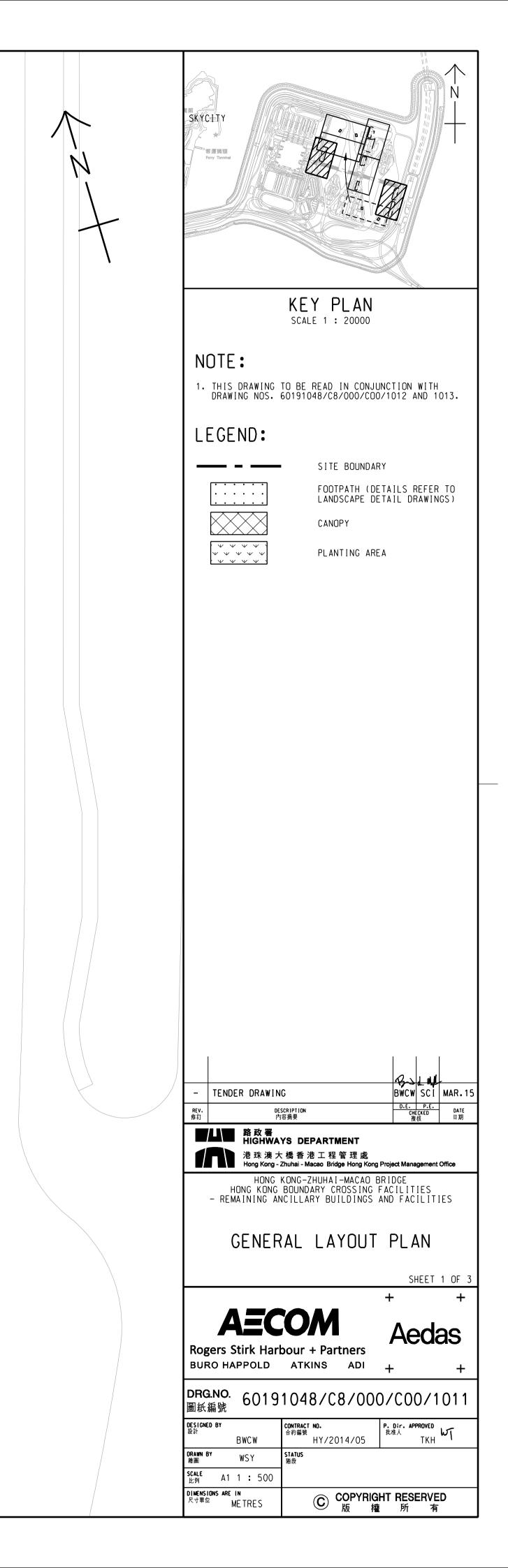
Location of Works Areas

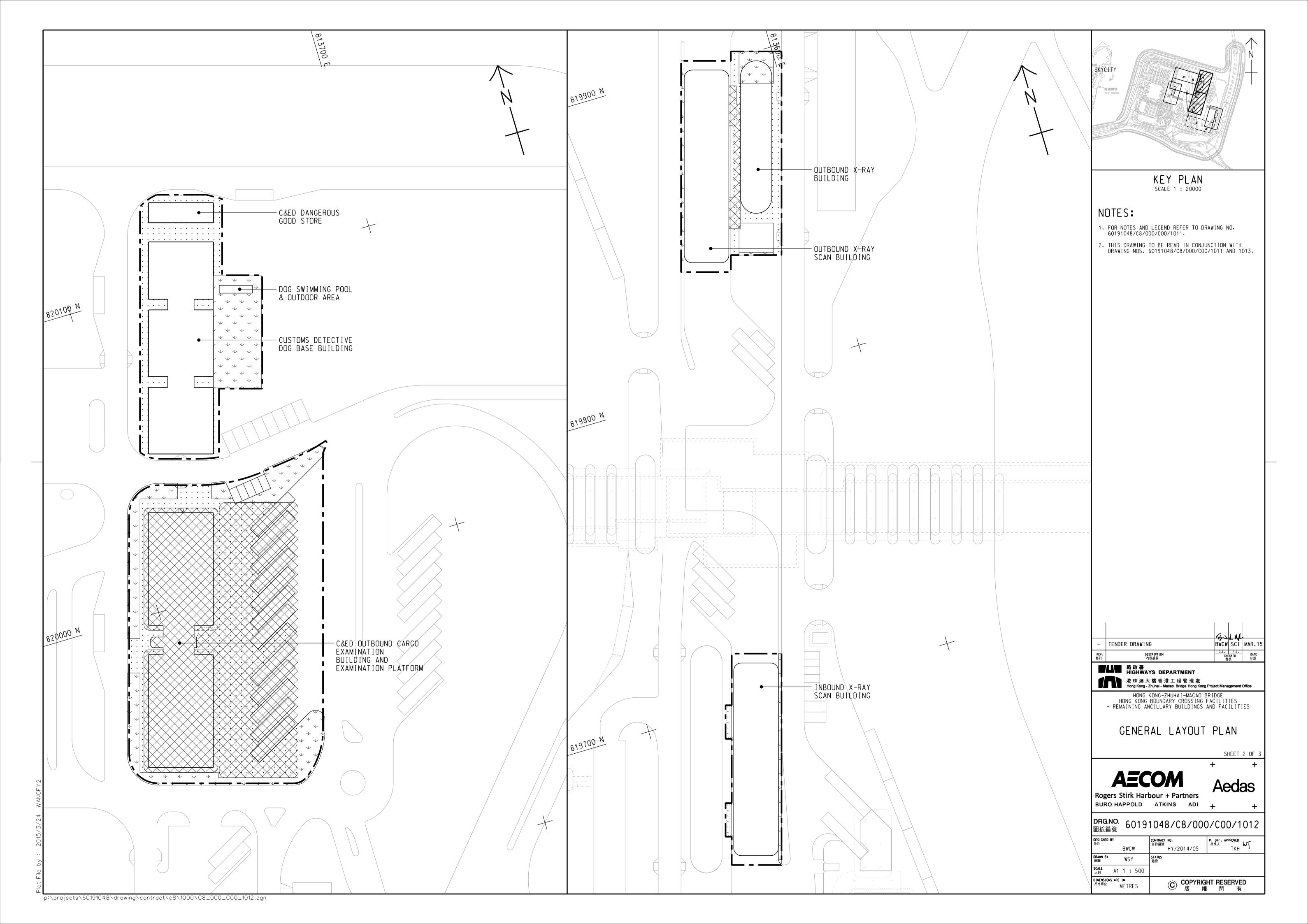


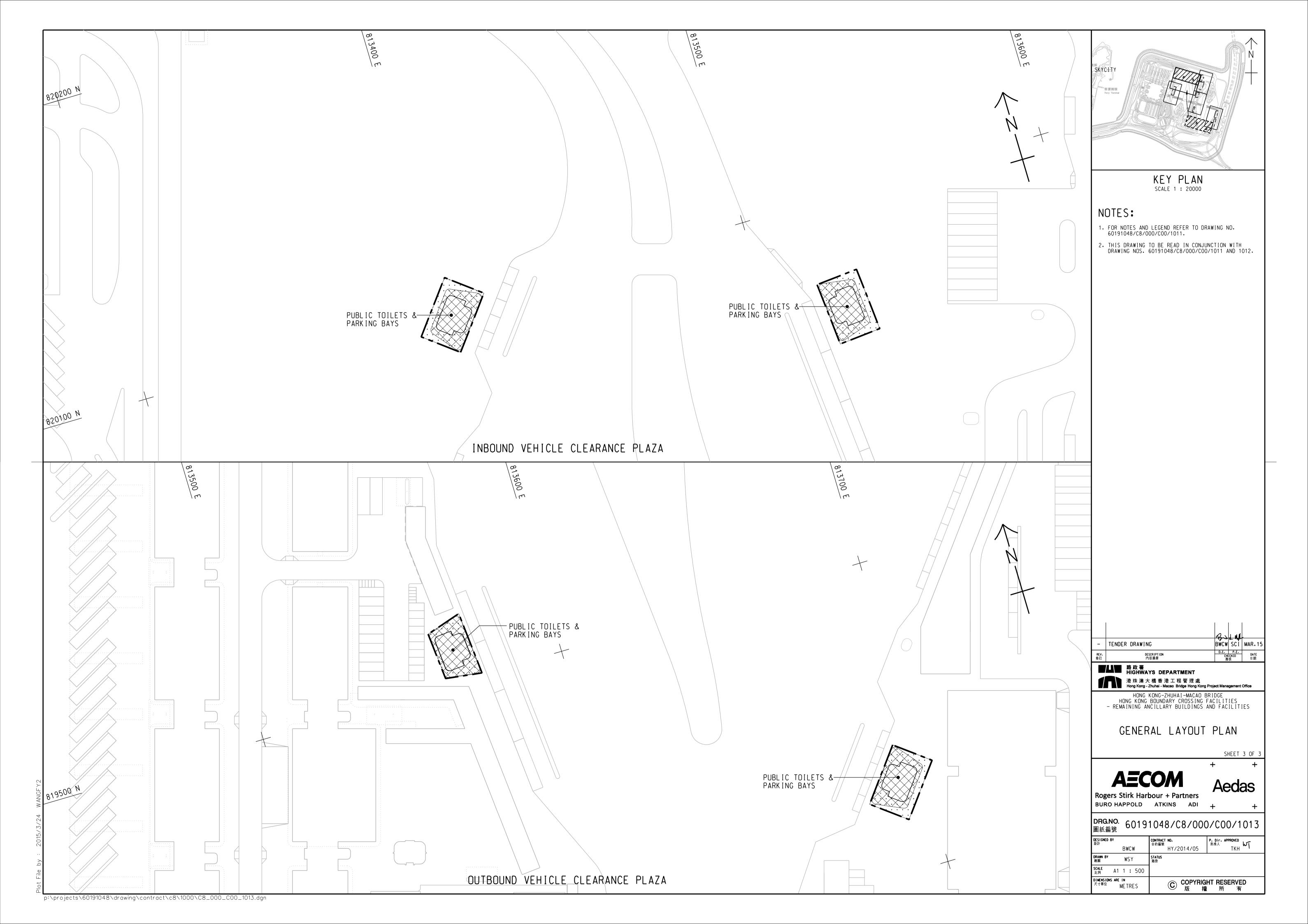


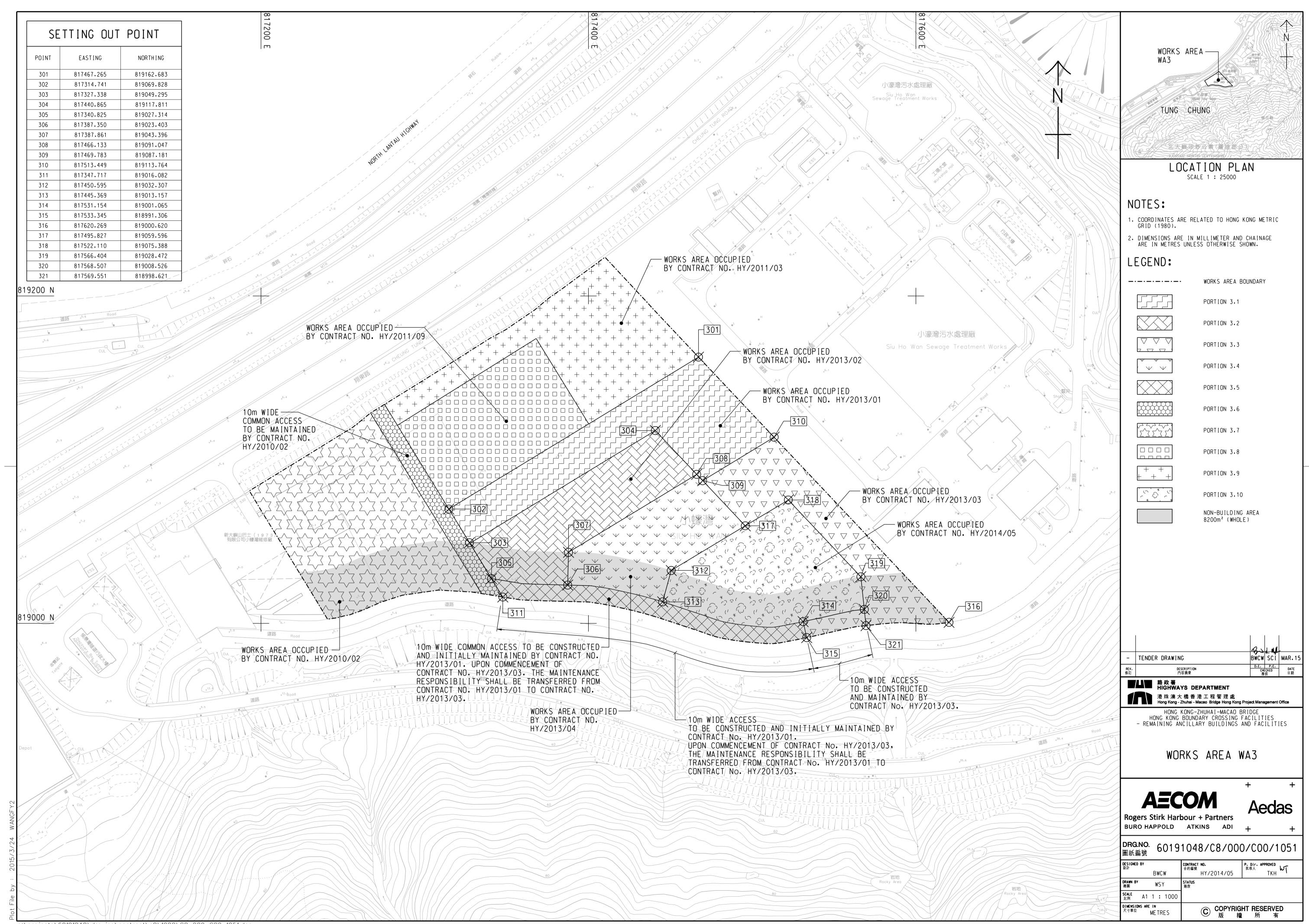
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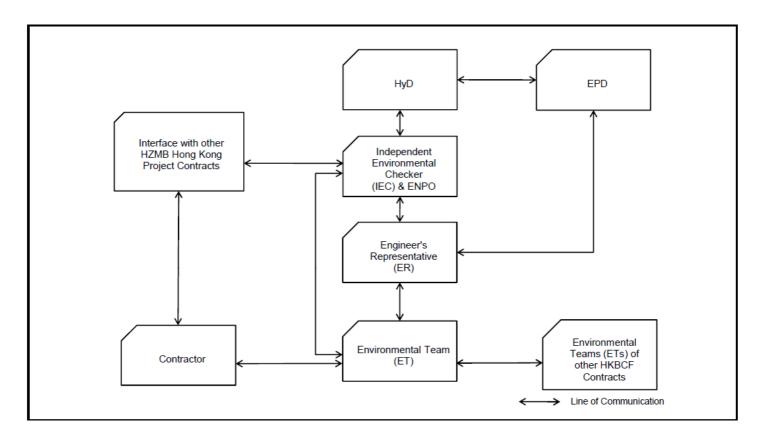


APPENDIX B

Project Organization for Environmental Works











Construction Programme



	y ID	Activity Name			August 201	7			Senter	mber 2017			Octo	ober 2017		
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RAB-TC21-1000 021 - T&C (HVAC, FS, P&D, OTHERS) Statutory Submissions & Approvals (Day 670 Completion) BBEO RAB-BEE-0100 021 - Registered Energy Assessor Inspection & Certification RAB-BEE-0110 021 - Submit REA Certification to EDMS RAB-BEE-0120 021 - EDMS Issue of Cert of Compliance Registration (COCR) Dangerous Goods Licence RAB-21-0350 021 - DG Licence Iprocessing & Inspection RAB-21-0360 021 - Issue DG Licence												1				
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BBEO RAB-BEE-0100 021 - Registered Energy Assessor Inspection & Certification RAB-BEE-0110 021 - Submit REA Certification to EDMS RAB-BEE-0120 021 - EDMS Issue of Cert of Compliance Registration (COCR) Dangerous Goods Licence RAB-21-0350 021 - DG Licence Iprocessing & Inspection RAB-21-0360 021 - Issue DG Licence																
RAB-BEE-0100 021 - Registered Energy Assessor Inspection & Certification RAB-BEE-0110 021 - Submit REA Certification to EDMS RAB-BEE-0120 021 - EDMS Issue of Cert of Compliance Registration (COCR) Dangerous Goods Licence RAB-21-0350 021 - DG Licence Iprocessing & Inspection RAB-21-0360 021 - Issue DG Licence		ons & Approvals (Day 670 Completion)														
RAB-BEE-0110 021 - Submit REA Certification to EDMS RAB-BEE-0120 021 - EDMS Issue of Cert of Compliance Registration (COCR) Dangerous Goods Licence RAB-21-0350 021 - DG Licence Iprocessing & Inspection RAB-21-0360 021 - Issue DG Licence		021 - Registered Energy Assessor Inspection & Certification										1				
RAB-BEE-0120 021 - EDMS Issue of Cert of Compliance Registration (COCR) Dangerous Goods Licence RAB-21-0350 RAB-21-0360 021 - DG Licence Iprocessing & Inspection RAB-21-0360 021 - Issue DG Licence												•				
Dangerous Goods Licence RAB-21-0350 021 - DG Licence Iprocessing & Inspection RAB-21-0360 021 - Issue DG Licence	RAB-BEE-0120															
RAB-21-0350 021 - DG Licence Iprocessing & Inspection RAB-21-0360 021 - Issue DG Licence																
Fire Servives Department (VAC)	RAB-21-0360	021 - Issue DG Licence										1				
	Fire Servives Depa	rtment (VAC)										1 1 1				

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RAB-FSD-820	021 - Submit Form 501 to FSD				1								_		
RAB-FSD-300	021 - FSD Inspection Period														
RAB-FSD-310	021 - Fire Certificate Obtained (Form 172) Handover														4
Engineer (AECOM	1)														
RAB-21-2190	021 - Submit As-Built Drawings to the Engineer									\bullet					
RAB-21-2200	021 - Engineer Inspection Period														
Building 022 - Cus	toms Detective Dog Base Building														
Excavation															
Raft Foundations															
Structure															
Walls & Columns															
_Roof Slab															
North Structure															
Cure and Strip															
Middle Structure											- 8 8				
Cure and Strip South Structure															
Cure and Strip															
ABWF/E&M															
Internal Finishes															
North											1				
Degree 1															
RAB-22-8215	022 - Plastering/Rendering														
RAB-22-8665	022 - Screeding														
RAB-22-8285	022 - Undercoat														
Degree 2															
RAB-22-0885	022 - Door Frame & Louvers							<u> </u>							
RAB-22-0910	022 - Power On														
RAB-22-0855	022 - Frame for Wall Panel & Cladding														
Degree 3															
RAB-22-8255	022 - Ceiling Finish Compl.														
RAB-22-8535	022 - Floor Tiling + Floor Finishes (for Early Handover Rooms)														
RAB-22-0865	022- Ceiling Frame														
RAB-22-8395	022 - Wall Tiling & Painting														
RAB-22-8275	022 - MEP Final Fix														
RAB-22-8365	022 - Floor Finish Other Than Act. No. RAB-22-8535														
RAB-22-8545	022 - Early Handover Rooms Ready for End Users***														
RAB-22-8245	022 - Glazing														
RAB-22-0870	022 - MEP Balance of Works														
RAB-22-8295	022 - Snagging and Remedials (Bldg. Internal)														
RAB-22-8265	022 - Door Panel & Ironmongery														
RAB-22-0203	022 - End Users and MOM Handover Inspection														
RAB-22-0950	022 - ABWF and MEP works to Degree 3 (KD5C)												~		
External Finishe													•		
Facade															
RAB-22-0470	022 - External Painting, Tiling & Cladding														
RAB-22-0710	Snag Listing - Bldg. External & External Works														
At Grade															
RAB-22-2100	022 - Prepare Sub Grade														_
RAB-22-2100 RAB-22-2170	022 - Landscaping for Outdoor Excise Lawn														
	022 - Landscaping for Outdoor Excise Lawn 022 - Laying Geo Textile														
RAB-22-2110															
RAB-22-2120	022 - Lay Granular Sub-Base														

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' ID	Activity Name			August 20	17			Septem	ber 2017			Octo	ober 2017		
		30	06	13	20	27	03	10	17	24	01	08	15	22	Т
RAB-22-2130	022 - Laying Course														-
Roof Finishes -	North														
RAB-22-0530	022 - Install Railing														
RAB-22-0540	022 - Install Cat Ladder and Roof Hatch														
RAB-22-0720	022 - Make good external surfaces										_				
Specialist Installat															
RAB-22-0990	022 - Kennels Installation (42No)														
RAB-22-0550	022 - Small Glass Canopy South Entrance														
Window Wall															
RAB-22-7030	022 - Install Primary Steelwork for Window Wall												1		
RAB-22-7040	022 - Install Secondary Steelwork for Window Wall														
RAB-22-7050	022 - Glazing to Window Wall														
Dog Swimming P															
RAB-22-0480	022 - Waterproofing														
RAB-22-0600	022 - Tiling to Dog Swimming Pool														
RAB-22-0490	022 - Backfill to ground level at Dog Swimming Pool						I								
RAB-22-0640	022 - Plumbing and filtration systems														
RAB-22-0630	022 - Metalworks and Railings														
RAB-22-0700	022 - Snagging and Remedials - Dog Pool														
Utilities and Draina	ge														
RAB-22-8095	022 - Construct Permanent Drainage and Manholes														
RAB-22-8135	022 - Install FS Water main														
RAB-22-8115	022 - Install Flushing Water Mains														
RAB-22-8105	022 - Install Fresh Water Mains														
RAB-22-8125	022 - Utiltites and Common Telecom Ducting											1			
Testing & Commiss	sioning														
RAB-TC22-1000	022 - T&C (HVAC, FS, P&D, OTHERS)														
Statutory Submissi	ons & Approvals (Day 670 Completion)														
BBEO															
RAB-BEE-120	022 - Registered Energy Assessor Inspection & Certification														
RAB-BEE-130	022 - Submit REA Certification to EDMS														
RAB-BEE-140	022 - EDMS Issue of Cert of Compliance Registration (COC	R)													
Water Supplies De															
Commencement															
Completion															
RAB-WSD-804	022 - Submit WWO 46 Pt. IV														
RAB-WSD-254	022 - WSD's Processing/Inspection/Meter Connection	a #1 8 10/a													
RAB-WSD-264	022 - Permanent Water ON/WSD Issue WWO 46 Part V C	ert & vva													
Fire Servives Depa RAB-FSD-860															
	022 - Submit Form 501												•		
Fire Services Wate															
Commencement Completion															
RAB-FSD-895	022 - Submit WWO 46 Pt. IV, FS														
RAB-FSD-984	022 - Submit WWO 46 Pt. V, FS						-					•			
RAB-FSD-320	022 - Submit Form 501, FS											•	•		
RAB-FSD-994	022 - Submit Form 314												▼		
RAB-FSD-330	022 - FSD Inspection Period, FS												•		
Engineer (AECOM															
RAB-22-2220	022 - Submit Building 022 As Built Drawings to Engineer														
	D Outbound Cargo Examination Building and Examin	ation Pl													
sulluing U23 - C&E	D outbound Cargo Examination Building and EXAMIN														
	el of Effort Actual Work Critical Re	1						Update				1			

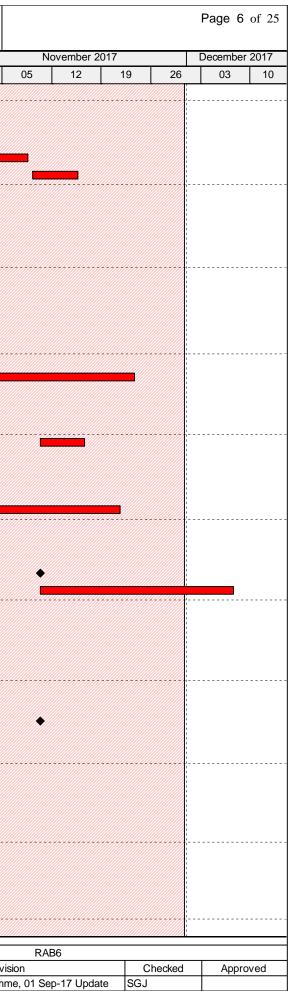
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/ ID	Activity Name		August 201	7			Septemb	er 2017			0	ctober 201	17			Novemb	per 2017		Decem	nber 2
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Excavation		_																		
	Inspection Platform																			
Raft Foundations -	Main Building															,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Structure																				
Ground Floor Planters																				
RAB-23-6140	023 - Construct North Planter Box and Ramp	_																		
RAB-23-6230	023 - Construct South Planter Box and Ramp	-																		
	nd Columns to +12.85mPD				<i></i>														 	
First Floor		-																		
Cure and Strip																				
	nd Columns to +17.1mPD																			
Roof																				
Cure and Strip																				
	nd Columns to +19.1mPD																			
Lift Doghouse																				
Cure and Strip																				
ABWF/E&M																				
Internal Finishes																				
Ground Floor																				
Degree 1																				
RAB-23-5420	023 - Construct Blockwork Walls to G/F																			
RAB-23-5430	023 - Plastering & Undercoat, G/F									1										
023 -23-5430	023 - Screeding, G/F																			
Degree 2																				
RAB-23-5860	023 - MEP 2nd Fix, G/F																			
RAB-23-5610	023 - Frame for Wall Panel & Cladding + Louver, G/F																			
RAB-23-5670	023 - Access to C3, C6 & C7 For Equip. Installation***, G/F	_																		
RAB-23-5790	023 - ABWF and MEP works to Degree 2 for others (KD3B) G/F								$\overset{}{\leftarrow}$										*	
Degree 3																				
RAB-23-6320	023 - Ceiling Paint Finish, G/F																			
RAB-23-5930	023 - Wall Finish - Paint & Tile, G/F																			
RAB-23-6220	023 - Floor Finish Other Than Carpet, G/F	-																		
RAB-23-5760	023 - Ceiling Frame, G/F					77 <u>7777777777</u>														
RAB-23-6380	023 - MEP Final Fix, G/F										-									
RAB-23-6080	023 - Glazing, G/F	_									-									
RAB-23-6410	023 - Ceiling Plaster Board, G/F	-																		
RAB-23-5660	023 - Door Frame/Panel & Ironmongery, G/F	_												_						
		+																	<u> </u>	
RAB-23-6180	023 - Floor Carpet Finish, G/F	_																		
RAB-23-6190	023 - Access to End Users, KD3C' - C3, C6 & C7											•								
First Floor																				
Degree 1 RAB-23-8055	023 - Construct Blockwork Walls, G/F - 1/F North (932m ³), 1/F																			
RAB-23-8055										¦										
	023 - Plastering & Undercoat, 1/F	_																		
RAB-23-8215	023 - Screeding, 1/F																			
Degree 2																				
RAB-23-8125	023 - MEP 2nd Fix, 1/F	-																		
RAB-23-8085	023 - Frame for Wall Panel & Cladding + Louver, 1/F															<i>44444</i> 444	<i></i>		<u>.</u>	
RAB-23-8235	023 - Power On	_																		
RAB-23-8115	023 - Access for C3 for Equip. Instln***, 1/F, KD3D Target to Achieve																			
Degree 3																				
RAB-23-8135	023 - Ceiling Paint Finish, 1/F																<u>/////////////////////////////////////</u>			
Remaining Leve		1									1					RAB6				
	I of Effort Actual Work Critical Remaining		B-Month					~ ~ ~ ~	004	-						INADU				

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ity ID	Activity Name		August 201	17		Se	eptember 20)17		С	ctober 2017			l N	ovember 201	7	Dec	ember 20
		30 06	13	20	27	03	10	17 24	01	08	15	22	29	05	12	19 :	26	03
RAB-23-8175	023 - Wall Finish - Paint & Tile, 1/F								////		<u></u>							
RAB-23-8205	023 - Floor Finish Other Than Carpet, 1/F	_																
RAB-23-8165	023 - MEP Final Fix, 1/F	_							/////									
RAB-23-8145	023 - Glazing, 1/F	_																
RAB-23-8105	023 - Ceiling Frame, 1/F	_																
RAB-23-8195	023 - Floor Carpet Finish, 1/F																	
RAB-23-8185	023 - Ceiling Plaster Board, 1/F																	
RAB-23-8155	023 - Door Panel/Ironmongery & Glass Baluster, 1/F																	
RAB-23-8265	023 - MEP Balance of Works																	
RAB-23-5970	023 - ABWF and MEP works to Degree 3 (KD3E)										•							
RAB-23-2290	023 - Snag Listing & Remedial Works - Building Internal																	
RAB-23-6040	023 - End Users and MOM Handover Inspection												•					
RAB-23-8225	023 - Handover Rooms Ready to End Users***, KD3C Target to Ach												•					
RAB-23-8255	023 - ABWF and MEP works to Degree 3 - Remaining Area- 1/F												•					
Roof Level Dog Ho	buse																	
RAB-23-6150	023 - ABWF and MEP works to Degree 1 R/F																	
RAB-23-6280	023 - ABWF and MEP works to Degree 2 R/F	1							////h									
RAB-23-6340	023 - ABWF and MEP works to Degree 3 R/F	-																
External Finishes																		
Facade																		
RAB-23-5560	023 - External Render																	
RAB-23-5590	023 - External Tiling					<u> </u>	<u>/////////////////////////////////////</u>											
RAB-23-5650	023 - External Painting	-																
RAB-23-5990	023 - Dismantle Scaffolding	-																
At Grade										_								
RAB-23-5740	023 - Prepare Sub Grade	4																
RAB-23-5820	023 - Laying Geo Textile																	
RAB-23-5910	023 - Lay Granular Sub-Base	_																
RAB-23-5940	023 - Laying Course	-											-					
RAB-23-6050	023 - Concrete Block Paving	-																
Window Wall																		
East									·///									
RAB-23-6810	023 - Install Primary Steelwork for Window Wall - E	4																
RAB-23-6820	023 - Install Secondary Steelwork for Window Wall - E	-																
RAB-23-6830	023 - Glazing to Window Wall - E	-																
West RAB-23-6840	023 - Install Primary Steelwork for Window Wall - W	4							////									
RAB-23-6850	023 - Install Secondary Steelwork for Window Wall - W	-																
RAB-23-6860	023 - Glazing to Window Wall - W	-																
Roof Finishes	023 - Waterproof membrane																	
RAB-23-5620	023 - Top Screed	-																
RAB-23-5640	023 - Roof Tiling	_																
RAB-23-5920	023 - Install Railing																	
Green Roof		4										_						
RAB-23-5720	023 - Install green Roof Irrigation Systems								////			_					//	
RAB-23-5900	023 - Complete Green Roofing Works																	
Specialist Installat		4																
RAB-23-6270	023 - Install Lift (1 nos)	_																
RAB-23-6010	023 - Installation of Roller Shutter Header Boxes (x 3)								/////									
Remaining Leve	el of Effort Actual Work Critical Remaining		3-Month	Rolling	Program	melle	date 0'	1 Sen 20	17					RA	B6			
Actual Level of I		,	J-INIOTILIT	Noning	riogram	me op	uale, U	i Sep. 20	11		Date		Re	vision		Check	ed	Approv
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		30	06	13	20	27	03	10	17	24	01	08	15	22	
RAB-23-7310	023 - Install Glazed Entrace Canopy														
RAB-23-6250	023 - Installation of Roller Shutter Curtain (x3)											_			
PV Installation															
RAB-23-6350	023 - Install Supporting Frame and PV panel														I
RAB-23-6360	023 - Cable containment and grid cable wiring														
RAB-23-6390	023 - Sub-array junction box installation & Connection														
Steel Canopy															
RAB-23-6240	023 - Install Secondary Steelwork														
RAB-23-6290	023 - Install Metal Cladding Panels										i				
RAB-23-6310	023 - Install Misc Metalworks										. –				
Utilities and Draina											; ; ;				
RAB-23-7975	023 - Construct Permanent Drainage, Manholes & Draw Pits										:				
RAB-23-7985	023 - Utiltites and Common Telecom Ducting														
RAB-23-7995	023 - Install Flushing Water Mains														
RAB-23-8005	023 - Install Fresh Water Mains														
RAB-23-8015	023 - Install FS Water Mains										¦				
Testing & Commiss															
RAB-TC23-1000	023 - T&C (HVAC, FS, P&D, OTHERS)														
RAB-TC23-1010	023 - T&C (Lift)													l	
	ons & Approvals (Day 610 Completion)														
BBEO											¦				
RAB-BEE-150	023 - Registered Energy Assessor Inspection & Certification														
EMSD - Building 02											l				
RAB-FSD-170	023 - Submit EMSD Form 3 (Commencement of Lift Installati	on)												•	
RAB-FSD-180	023 - Submit EMSD Form 5 (Completion of Lift Installation)													•	
RAB-FSD-190	023 - EMSD Lift Inspection														
Water Supplies De Commencement	partment (WSD)														
Completion															
RAB-WSD-774	023 - Submit WWO 46 Pt. IV for Building 023														
RAB-WSD-107	023 - WSD Inspection/Meter Connection														
Fire Servives Depa	•										; ;				
RAB-FSD-890	023 - Submit Form 314										l				
RAB-FSD-900	023 - Submit Form 501												•		
Fire Services Depa															
Commencement															
Completion															
RAB-FSD-108	023 - Submit WWO 46 Pt. IV for Building 023														
RAB-FSD-112	023 -Issue WWO 46 Part V														
Engineer (AECOM)															
RAB-23-2250	023 - Submit Building 023 As Built Drawings to Engineer														
Building 025 - Inbou	und Private Car Annexure										i				
Excavation															
Raft Foundations											i				
Structure															
Walls & Columns															
Roof Slab															
Cure and Strip ABWF/E&M INTERN															
INTERNAL FINISH															
Degree 1															
	025 - MEP 1st Fix										[
RAB-25-7400															



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Degree 2				0. 00 1.0 2.2
RAB-25-7430	025 - MEP 2nd Fix			
RAB-25-7570	025 - Raised Floor Pedestal			
RAB-25-7450	025 - Frame for Wall Panel & Cladding			
RAB-25-7560	025 - Access C3, C6 & C7 Equip. Installation***		••••	
RAB-25-7350	025 - Power On Available			
Degree 3				
RAB-25-7470	025 - Ceiling Painting & Ceiling Sub-Frame			
RAB-25-7620	025 - Ceiling Panel			
RAB-25-7600	025 - Wall Paint Finish Coat			
RAB-25-7610	025 - Wall Tiling			
RAB-25-7480	025 - Floor Tiling			
RAB-25-7460	025 - MEP Final Fix			
RAB-25-7440	025 - Door Frame/Wall Panel			
RAB-25-7580	025 - Floor Painting			
RAB-25-7370	025 - Snagging and Remedials			
RAB-25-7550	025 - MEP Balance of Works	-		
RAB-25-7520	025 - Glazing	-		
RAB-25-7630	025 - Early Handover Rooms Ready to End Users***, Target to Achie	-		
RAB-25-7590	025 - Floor Carpet			······
RAB-25-7375	KD6C - Projected achievement of Stage 6C of the Works	_		
RAB-25-7375 RAB-KD6C10	025 - End Users and MoM handover inspection	-		
RAB-25-7510	025 - Plaster Board	-		
	025 - Plaster Board			
External Finishes Facade				
RAB-25-0570	025 - Dismantle Scaffolding			
RAB-25-0360	025 - Install External Louvers /Windows/Doors			
RAB-25-0580	025 - Make good external surfaces	_		
At Grade				
RAB-25-6400	025 - Prepare Sub Grade			
RAB-25-6390	025 - Laying Geo Textile	-		
RAB-25-6410	025 - Lay Granular Sub-Base	-		
Roof Finishes				
RAB-25-0550	025 - Install Railing (222m)			
RAB-25-0540	025 - Install Cat Ladders and Roof Hatch			
Green Roof				
RAB-25-0700	025 - Install Green Roof Irrigation Systems			
RAB-25-0710	025 - Complete Green Roof Works	1		
Specialist Installat				
Glazed Canopy				
RAB-25-0490	025 - Install Primary Steelwork			
RAB-25-0500	025 - Install Secondary Steelwork	1		
RAB-25-0520	025 - Install Glazed Panels	1		
IMMD Kiosk				
RAB-25-0380	025 - Internal ABWF and MEP of IMMD Kiosk			
RAB-25-0350	025 - External Finishes to IMMD Kiosk	1		
RAB-25-0430	025 - Erect Kiosk Canopy @ +10.17mPD	1		
Utilities and Draina				
RAB-25-7250	025 - Construct Permanent Drainage, Manholes & Draw Pits			
RAB-25-7260	025 - Utiltites and Common Telecom Ducting			
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		30	06	13	20	27	03	10	17	24	01	08	15	22	T
RAB-25-7290	025 - Install FS Water Main		•	-	•							-	-		_
RAB-25-7280	025 - Install Fresh Water Mains														
RAB-25-7270	025 - Install Flushing Water Mains														
Testing & Commiss															
RAB-TC25-1000	025 - T&C (HVAC, FS, P&D, OTHERS)														
	ions & Approvals (Day 670 Completion)														
BBEO	And Designed France Assessed has a first A. Os tiffesting														
RAB-BEE-180	025 - Registered Energy Assessor Inspection & Certification														
RAB-BEE-190	025 - Submit REA Certification to EDMS										¦ 				
RAB-BEE-200	025 - EDMS Issue of Cert of Compliance Registration (COCR)														
Water Supplies De															
Commencement Completion															
Fire Servives Depa	artment (VAC)														
Fire Service Water															
Commencement															
Completion															
Engineer (AECOM															
	oound Private Car Annexure														
Excavation															
Raft Foundations															
Structure Walls & Columns															
Roof Slab															
Cure and Strip											¦				
RAB-32-0690	032 - Cure and Strip False/Formwork, Water Tank														
ABWF/E&M															
Internal Finishes															
Degree 1															
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RAB-32-0560	032 - MEP 2nd Fix														
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RAB-32-0660	032 - Power On														
Degree 3															
RAB-32-0830	032 - Wall Painting														
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RAB-32-0745	032 - Raised Floor														
RAB-32-0880	032 - Wall Tiling										:				
RAB-32-0870	032 - Ceiling Panel														
RAB-32-0860	032 - Floor Painting & Remaining Floor Tiling														
RAB-32-0590	032 - MEP Final Fix														
RAB-32-0790	032 - Glazing														
RAB-32-0850	032 - Early Handover Rooms Ready to End Users***											_			
RAB-32-0800	032 - Door Panel & Ironmongery														
RAB-32-0680	32 - Snagging and Remedials														
RAB-32-0740	032 - MEP Balance of Work														
RAB-32-0670	032 - End Users and MoM handover inspection														
RAB-KD7C10	KD7C - Projected achievement of Stage 7C of the Works														
Roof Finishes															

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No. Object	LEIGHTON 檀 初	600	Contract No. HY/2014/05 - Re	emaining Ancillary Building and F	acilities		Page 9 of
NUC-268.00 U2 - Inst Foro <	y ID	Activity Name	August 2017	September 2017	October 2017	November 2017	December 201
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Lamage landows	RAB-32-0620	032 - Install Green Roof Irrigation Systems					
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RAB-44-1170	044 - Screed - G/F														
Degree 2											ĺ.				
RAB-44-9175	044 - MEP 2nd Fix - G/F										ĺ.				
RAB-44-0760	044 - Door & Windor Frame + Louver - G/F														
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RAB-44-9285	044 - Wall Finish, Paint & Tile - G/F														
RAB-44-9255	044 - Ceiling Paint - G/F														
RAB-44-9235	044 - Ceiling Panel Frame - G/F										j				
RAB-44-9245	044 - Ceiling Plaster Board Frame														
RAB-44-9265	044 - Floor Tilie Finish - G/F										j				
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RAB-44-9395	044 - Ceiling Plaster Board										1				
RAB-44-9185	044 - MEP Final Fix - G/F										<u> </u>	•			
RAB-44-9345	044 - Ceiling Panel - G/F														
RAB-44-9275	044 - Glazing - G/F														
RAB-44-9355	044 - Floor Paint Finish - G/F														
First Floor															
Degree 1 RAB-44-9315	044 - Construct Blockwork Walls - 1/F		1												
RAB-44-9305	044 - MEP 1st Fix - 1/F														
RAB-44-9335	044 - Plastering & Undercoat - 1/F										Í.				
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Degree 2 RAB-44-9365	044 - MEP 2nd Fix - 1/F	_													
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Degree 3 RAB-44-9555	044 - Wall Finish, Paint & Tile - 1/F														
RAB-44-9465	044 - Ceiling Paint Finish - 1/F												-		
RAB-44-9385	044 - Ceiling Panel Frame - 1/F						-				{·				
RAB-44-9695	044 - Ceiling Plaster Board Frame														
RAB-44-9505	044 - Door Panel & Ironmongery - 1/F										1				
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RAB-44-9495	044 - Ceiling Panel - 1/F										[
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tivity ID	Activity Name		A	ugust 2017	7			September 2017			October 2	2017			No	vember 20'	17		December 20
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RAB-44-9485	044 - Glazing - 1/F		_							_									
RAB-44-9475	044 - Floor Paint Finish - 1/F																		
Second Floor																			
Degree 1																		/////	
RAB-44-9525	044 - Construct Blockwork Walls - 2/F																		
RAB-44-9545	044 - Plastering & Undercoat - 2/F																		
RAB-44-9515	044 - MEP 1st Fix - 2/F																		
RAB-44-9535	044 - Screed - 2/F																		
Degree 2																			
RAB-44-9575	044 - MEP 2nd Fix - 2/F																		
RAB-44-9665	044 - Door & Windor Frame + Louver - 2/F																		
RAB-44-9605	044 - Power On - 2/F										•								
RAB-44-0610	KD8B - Projected achievement of Stage 8B of the Works - 2/F										•								
Degree 3																			
RAB-44-9595	044 - Wall Finish, Paint & Tile - 2/F																		
RAB-44-9635	044 - Ceiling Paint Finish - 2/F																		
RAB-44-9725	044 - Ceiling Plaster Board Frame - 2/F																		
RAB-44-9735	044 - Ceiling Plaster Board																		
RAB-44-9585	044 - MEP Final Fix - 2/F																		
RAB-44-9675	044 - Glazing - 2/F																		
RAB-44-9715	044 - Door Panel & Ironmongery - 2/F																		
RAB-44-9795	044 - MEP Balance of Works													-				//////////////////////////////////////	
RAB-44-9685	044 - Floor Tile Finish & Floor Finish to Early handover Rooms - 2/F																		
RAB-44-9645	044 - Ceiling Panel Frame - 2/F																		
RAB-44-9745	044 - Ceiling Panel - 2/F														,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	r <u>ahahahaha</u>			
Roof Finishes																			
RAB-44-0420	044 - Leveling screed - (242m ²)																		
RAB-44-0450	044 - Waterproof membrane - (242m ²)	-																	
RAB-44-0430	044 - Insulation Board - (242m ²)																		
RAB-44-0480	044 - Top Screed - (242m ²)																		
RAB-44-0520	044 - Install Roof Tiles - (242m ²)																		
RAB-44-0540	044 - Install Railing	_																	
RAB-44-0550	044 - Install Cat Ladder and Roof Hatch																		
Green Roof													<u></u>					//////	
RAB-44-0350	044 - Leveling screed - (242m ²)	_																	
RAB-44-0360	044 - Waterproof membrane - (242m ²)																		
RAB-44-0390	044 - Top Screed - (242m ²)	_																	
RAB-44-0400	044 - Install green Roof Irrigation Systems																		
External Finishes																		//////	
Facade																			
RAB-44-0470	044 - External Render	-																	
RAB-44-0530	044 - External Painting	_																	
RAB-44-0490	044 - External Tiling	_																	
RAB-44-0430	044 - Install External Louvers /Windows/Doors																		
RAB-44-0570	044 - Dismantle Scaffolding																		
At Grade																			
RAB-44-6520	044 - Prepare Sub Grade																		
RAB-44-6510	044 - Laying Geo Textile																		
RAB-44-6530	044 - Lay Granular Sub-Base																		
RAB-44-6540	044 - Laying Course	1																	
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Remaining Leve	el of Effort Actual Work Critical Remaining		2 1	lonth F	Ollina	Drog	ammo	Update, 01 Se	on 2017						RAB	6			
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Actual Level of B	Effort Constraint Remaining Work 🛆 Finish Constraint				5		•••••	• p			Date			Revisi	ion		Ch	ecked	Approve

y ID	Activity Name			August 201	7			Septemb	er 2017			Octo	ber 2017		
		30	06	13	20	27	03	10	17	24	01	08	15	22	Г
RAB-44-6500	044 - Concrete Block Paving				L										-
Specialist Installati															
RAB-44-0600	044 - Install Lift (1 nos)														
RAB-44-1100	044 - Installation of Roller Shutter Header Box														
RAB-44-2250	044 - Small Glass Canopy North Elevation									T					
RAB-44-1090	044 - Installation of Roller Shutter Steel Curtain														
Curtain Wall															
East RAB-44-6870	044 - Complete Formwork Stripping to Roof Level														
RAB-44-6880	044 - Install Primary Steelwork for Window Wall - East														
RAB-44-6890	044 - Install Secondary Steelwork for Window Wall - East														
RAB-44-6900	044 - Glazing to Window Wall - East														
West															
RAB-44-6920	044 - Install Primary Steelwork for Window Wall - West											_			
RAB-44-6930	044 - Install Secondary Steelwork for Window Wall - West														
RAB-44-6940	044 - Glazing to Window Wall - West														
Utilities and Drainag	-														
RAB-44-7895	044 - Construct Permanent Drainage and Manholes (Approx	(100m)													
RAB-44-7935	044 - Install FS Water Main														
RAB-44-7915	044 - Install Flushing Water Mains														
RAB-44-7925	044 - Install Fresh Water Mains														
RAB-44-7905	044 - Utiltites and Common Telecom Ducting														
Testing & Commiss															
RAB-TC44-1010	044 - T&C, Lift														
RAB-TC44-1000	044 - T&C (HVAC, FS, P&D, OTHERS)														
Statutory Submission	ons & Approvals														
BBEO RAB-BEE-240	044 - Registered Energy Assessor Inspection & Certification													_	
RAB-BEE-250	044 - Submit REA Certification to EDMS														
RAB-BEE-260	044 - EDMS Issue of Cert of Compliance Registration (COC	R)													
EMSD - Building 04															_
RAB-FSD-200	044 - Submit EMSD Form 3 (Commencement of Lift Installa	tion)	•												
RAB-FSD-210	044 - Submit EMSD Form 5 (Completion of Lift Installation)		·											•	
RAB-FSD-220	044 - EMSD Lift Inspection														
Water Supplies De															
Commencement															
Completion															
RAB-WSD-684	044 - Submit WWO 46 Pt. IV														
RAB-WSD-314	044 WSD Inspection/Meter Connection														
Fire Servives Depa															
RAB-FSD-1020	044 - Submit Form 314 to FSD, HVAC														
RAB-FSD-1040	044 - Submit Form 501 to FSD, HVAC														
Fire Water Services	(rs)														
Completion															
RAB-FSD-116	044 - Submit WWO 46 Pt. IV, FS													•	
RAB-FSD-120	044 WSD Issue WWO Part V													•	
RAB-FSD-128	044 - Submit Form 501, FS														
RAB-FSD-126	044 - Submit Form 314 to FSD, FS														
Engineer (AECOM)															
RAB-44-7280	044 - Submit Building 044 As Built Drawings to Engineer													•	

				Page 12	of 25
N	ovember 2	017		Decembe	r 2017
05	12	19	26	03	10
05	12	19	20	03	10

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RA	36				
sion		C	hecked	Appr	oved
ne, 01 Se	p-17 Upda	te SGJ			

LEIGHTON 祝皇 中面		Contract No. HY/2014/05 - Ren				Page 13 of
'ID	Activity Name	August 2017	September 2017	October 2017	November 2017	December 20
		30 06 13 20 27	03 10 17 24	01 08 15 22	29 05 12 19 26	03
Building 045 - High	ways Depot & Administration Building					
Raft Foundation						
Diesel Fuel Chaml						
Structure G/F to R/ G/F to 1/F Walls &						
1/F Slab						
Cure and Strip						
1/F to 2/F Walls &	Columns					
2/F Slab						
Cure and Strip						
2/f to R/F Walls &	Columns					
Roof Level Slab						
Cure and Strip ABWF/E&M						/
Ground Floor, Sou	Ith - G/E					
Degree 1, G/F						
RAB-45-9725	045 - MEP 1st Fix - G/F					
RAB-45-9765	045 - Screed - G/F					
Degree 2, G/F						
RAB-45-9805	045 - MEP 2nd Fix - G/F					
RAB-45-9895	045 - Door & Windor Frame + Louver - G/F					
RAB-45-9905	045 - Access for C3 to Install Equipment		•			
RAB-45-10075	045 - Projeted achievement of Stage 8B of the Works - G/F		•			
Degree 3, G/F						 !
RAB-45-9935	045 - Wall Finish, Paint & Tile - G/F					
RAB-45-10005	045 - Ceiling Paint - G/F					1
RAB-45-9915	045 - Floor Finish (Paint & Tile) - G/F					
RAB-45-9945	045 - Door Panel & Ironmongery - G/F					
RAB-45-10035	045 - Ceiling Plaster Board Frame & Ceiling Panel Frame - G/F			2;		;
RAB-45-9815	045 - MEP Final Fix - G/F					
RAB-45-9925	045 - Glazing - G/F					1
RAB-45-10055	045 - Ceiling Plaster Board & Ceiling Panel- G/F					
First Floor, 1/F						1
Degree 1, 1/F						
RAB-45-9975	045 - Screed - 1/F					
RAB-45-9955	045 - MEP 1st Fix - 1/F					
Degree 2, 1/F						
RAB-45-10015	045 - MEP 2nd Fix - 1/F					; ;
RAB-45-10105	045 - Door & Windor Frame + Louver - 1/F					
RAB-45-10065	045 - Access to C3 Equipment Instalaltion***					
Degree 3, 1/F						1
RAB-45-10175	045 - Ceiling Paint - 1/F					
RAB-45-10145	045 - Wall Finish, Paint & Tile - 1/F					;
RAB-45-10125	045 - Floor Finish (Paint & Tile) - 1/F					1
RAB-45-10155	045 - Door Panel & Ironmongery - 1/F					
RAB-45-10205	045 - Ceiling Plaster Board Frame Ceiling Panel Frame- 1/F					1
RAB-45-10025	045 - MEP Final Fix - 1/F					
RAB-45-10245	045 - Ceiling Plaster Board & Ceiling Panel - 1/F					;
RAB-45-10285	045 - Glazing - 1/F					
RAB-45-10275	045 - Handover to End users***			•		1
Second Floor, 2/F						
Degree 1, 2/F						
Remaining Leve	el of Effort Actual Work Critical Remaining		gramme Update, 01 Sep. 2017	7	RAB6	

LEIGHTON 程 安賀	(19)	Contract	NO. $HY/2$	2014/05 - F	xemainin	ig Ancilla	iry Build	iing and	Faciliti	es							Page 14 of
Activity ID	Activity Name	ĺ	August 201	17		Septeml	ber 2017			October	2017			Novembe	er 2017		December 20
		30 06	13	20	27 03	3 10	17	24	01	08	15	22	29	05 12	19	26	03
RAB-45-0810	045 - Construct Blockwork Walls - 2/F					<u></u>											
RAB-45-10195	045 - Plastering & Undercoat - 2/F	_															
RAB-45-10185	045 - Screed - 2/F	_															
RAB-45-10165	045 - MEP 1st Fix - 2/F																
Degree 2, 2/F																	
RAB-45-10225	045 - MEP 2nd Fix - 2/F]							
RAB-45-10315	045 - Door & Windor Frame + Louver - 2/F																
RAB-45-10295	045 - Access for C3 Equip. Installation, 2/F***																
RAB-45-0950	KD8B - Projected achievement of Stage 8B of the Works - 2/F, 045	_							•								
RAB-45-10255	045 - Power On - 2/F	_								•							
Degree 3, 2/F																	
RAB-45-10395	045 - Ceiling Paint - 2/F																
RAB-45-10355	045 - Wall Finish, Paint & Tile - 2/F																
RAB-45-10335	045 - Floor Finish (Paint & Tile) - 2/F	_						<u>/////////////////////////////////////</u>									
RAB-45-10375	045 - Ceiling Plaster Board Frame & Ceiling Panel Frame - 2/F	_									•						
RAB-45-10235	045 - MEP Final Fix - 2/F	_							_			_					
RAB-45-10345	045 - Glazing - 2/F	_															
RAB-45-10385	045 - Ceiling Plaster Board & Ceiling Panel - 2/F	_											R				
RAB-45-0980	045 - Snagging and Remedials - 2/F	_															
RAB-45-10365	045 - Door Panel & Ironmongery - 2/F																
RAB-45-10305	045 - MEP Balance of Works																
RAB-45-10265	045 - End Users and MoM handover inspection																
RAB-45-0970	KD8C - Projected achievement of Stage 8C of the Works - 2/F, 045	-															
External Finishes																	
Bldg. External Finis	shes																
Facade																	
RAB-45-0630	045 - External Render																
RAB-45-0620	045 - Install External Louvers /Windows/Doors																
RAB-45-0690	045 - External Painting	-															
RAB-45-0720	045 - Dismantle Scaffolding	_															
RAB-45-0760	045 - Make good external surfaces	_															
At Grade							1414141414 77										
RAB-45-6580	045 - Prepare Sub Grade	-															
RAB-45-6570	045 - Laying Geo Textile	_															
RAB-45-6590	045 - Lay Granular Sub-Base	_															
		_									_						
RAB-45-6600	045 - Laying Course											<u></u> _					
RAB-45-6560	045 - Concrete Block Paving																
Roof Finishes -																	
RAB-45-0820	045 - Leveling screed	-															
RAB-45-0860	045 - Waterproof membrane																
RAB-45-0880	045 - Top Screed																
RAB-45-0910	045 - Install Roof Tiles							//////////////////////////////////////									
RAB-45-0920	045 - Install Railing																
RAB-45-0930	045 - Install Cat Ladder and Roof Hatch																
Green Roof - Noth																	
RAB-45-0600	045 - Leveling screed																
RAB-45-0650	045 - Waterproof membrane	+															
RAB-45-1210	045 - Insulation Board	-															
RAB-45-0670	045 - Top Screed	-															
RAB-45-0670	045 - Top Screed 045 - Install green Roof Irrigation Systems	_															
RAD-40-0080	040 - Install green roor imgalion Systems													<u> ////////////////////////////////////</u>	<u> ////////////////////////////////////</u>		
D														RAB6			
Remaining Leve			3-Month	Rolling P	rogramm	ne Update	e, 01 Sej	o. 2017		Date			Revisio			Checked	Approv
	Effort Constraint Remaining Work 🛆 Finish Constraint																

LEIGHTON セローマロー	485	Contra	ict No.	HY/2014/0	5 - Ren	naining	Ancillary Building	and Facili	ties					Page	e 15 of 2
vity ID	Activity Name		Aug	ust 2017			September 2017		October 20	17		November 2	.017	Dece	ember 201
		30	06	13 20	27	03	10 17 2	4 01	08 15	22	29	05 12	19	26 (03 1
RAB-45-0740	045 - Complete Green Roofing Works													////	
Specialist Installatio RAB-45-0590	ns 045 - Install Lift (1 nos)														
RAB-45-0390	045 - Install Genset and swtich board G/F	_													
Window Wall															
East															
RAB-45-6950	045 - Complete Formwork Stripping to Roof Level													//// !	
RAB-45-6960	045 - Install Primary Steelwork for Window Wall														
RAB-45-6970	045 - Install Secondary Steelwork for Window Wall														
RAB-45-6980	045 - Glazing to Window Wall														
West															
RAB-45-6990	045 - Install Primary Steelwork for Window Wall														
Utilities and Drainag															
RAB-45-7935	045 - Construct Permanent Drainage and Manholes (Approx 180m)														
RAB-45-7945	045 - Utilities and Common Telecom Ducting														
RAB-45-7955	045 - Install Flushing Water Mains							/////							
RAB-45-7965	045 - Install Fresh Water Mains														
RAB-45-7975	045 - Install FS Water Main										:				
Testing & Commissi															
RAB-TC45-1030	045 - T&C, Lift														
RAB-TC45-1020	045 - T&C (HVAC, FS, P&D, OTHERS)														
BBEO	ons & Approvals (Day 670 Completion)														
RAB-BEE-270	045 - Registered Energy Assessor Inspection & Certification														
RAB-BEE-280	045 - Submit REA Certification to EDMS	_								♦					
RAB-BEE-290	045 - EDMS Issue of Cert of Compliance Registration (COCR)	_								· ·					
EMSD - Building 04														//// 	
RAB-FSD-240	045 - Submit EMSD Form 5 (Completion of Lift Installation)														
RAB-FSD-250	045 - EMSD Lift Inspection														
Fuel Tank - DG Lice	ense														
RAB-FSD-660	045 - FSD Inspection & Approval														
RAB-FSD-680	045 - FSD Issue License														
Generator Set - EPI															
RAB-EPD-0130	045 - Submission Form 501to EPD														
RAB-EPD-0140	045 - EPD Approval						•								
Generator Set - DG														////	
RAB-FSD-690	045- Genset Ready for DG Inspection														
RAB-FSD-700	045 - Notify FSD for DG Inspection														
RAB-FSD-710	045 - FSD (Vent) /FS Inspection/Process License														
RAB-FSD-720	045 - DG Licence Issued								•	•					
Water Supplies Dep	partment (WSD)														
Commencement Completion															
RAB-WSD-654	045 - Submit WWO 46 Pt. IV	-													
RAB-WSD-284	045 - WSD's Processing/Inspection/Meter Connection	_													
HVAC															
RAB-FSD-990	045 - Submit Form 314							<i>4747</i>						////i	
RAB-FSD-1000	045 - Submit Form 501											••••••••••••••••••••••••••••••••••••••			
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Actual Level of E	ffort Constraint Remaining Work 🛆 Finish Constraint					· ·	• • •		Date 01-Sep-17		Revi	sion ne, 01 Sep-17 Upda	te SGJ	кеа	Approve

Appendix AP/ Opposition (2) / 10 Outpook (A/) Appendix (A/) Ref F15 cond 90 - 5 arr MWO of (A) 12 - 10 0 10 10 17 22 01 60 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 00 12 00 00 12 00 00 12 00 00 12 00 00 12 00 00 12 00 00 00 12 00 00 12 00 00 12 00 00 12 00 00 12 00 00 12 12 00 00 12 12 00 00 12 12			Contract No. HY/2014/05 -	Remaining Ancillary Building	and Facilities					Page 16	זט נ
Build Provide Oile - Soluti WWO of 11 12 - F3 Build Provide Soluti WWO of 11 12 - F3 Build Provide Soluti WWO of 11 F8 Build Provide SolutWWO of 11 F8 Build P	ity ID	Activity Name	August 2017	September 2017	October 20	17	1	November 2017		Decembe	er 20
RM 52 000 305 Spritt W100 dF, V - F0 RM 52 000 305 Spritt W100 dF, V - F0 RM 52 000 305 Spritt W100 dF, V - F0 RM 52 000 305 Spritt W100 dF, V - F0 RM 52 000 305 Spritt W100 dF, V - F0 RM 52 000 305 Spritt W100 dF, V - F0 RM 50 000 500 dF, V - F0 RM 50 000 301 H - F0 RM 50 0000 <td< td=""><td></td><td></td><td>30 06 13 20</td><td>27 03 10 17 24</td><td>01 08 15</td><td>22</td><td>29 05</td><td>12 1</td><td>9 26</td><td>03</td><td></td></td<>			30 06 13 20	27 03 10 17 24	01 08 15	22	29 05	12 1	9 26	03	
R.8.470-300 Del: 5.2017 0001 1-95 R.8.470.200 Del: 5.2017 0001 54000 1.01007 0.0 Ulty CP No.000 1000 - NOUS 30000 10002 Del: 5.2017 0001 1.0000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.0000000 1.0000000 1.0000000 1.00000000				•							
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R8450170 00011 MaxBar Diright Statums & Underscall Amazan Statum R8450170 00011 MaxBar Diright Statum Amazan Statum Amazan Statum R8450170 00011 Net Proceed advectment of Stage 8.0 et to Works Amazan Statum Amazan Statum R8450180 00011 Net Proceed advectment of Stage 8.0 et to Works Amazan Statum Amazan Statum R8450180 00011 Amazan Statum Amazan Statum Amazan Statum Amazan Statum R8450180 00011 Amazan Statum Amazan Statum <td>Internal Finishes</td> <td></td>	Internal Finishes										
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R8450130 00011-Sexeding R84502400 C20Bit Notes of C2 Caling Works R8450120 C00111-MEP ZMIT Notes Notes C2 Caling Installion R8450120 C00111-NEP ZMIT Notes Notes C2 Caling Installion R8450120 C00111-NEP ZMIT Notes Notes C2 Caling Installion R8450120 C00111-NEP ZMIT Notes Notes C2 Caling Works R8450120 C00111-NEP ZMIT Notes Notes Notes C2 Caling Works R8450120 C00111-NEP ZMIT Notes Notes Notes C2 Caling Works R8450120 C00111-NEP ZMIT Notes Note					////						
R48-R00400 C00H1 - Access for C3 Cabige R0 /the Works R48-R00100 C00H1 - Access for C3 Exptp Homelantic R48-R0110 C00H1 - Central activerses c1 Stage R0 /the Works R48-R0110 C00H1 - Central activerses c1 Stage R0 /the Works R48-R0110 C00H1 - Central activerses c1 Stage R0 /the Works R48-R0120 C00H1 - Central activerses c1 Stage R0 /the Works R48-R0120 C00H1 - Central activerses c1 Stage R0 /the Works R48-R0120 C00H1 - Central activerses c1 Stage R0 /the Works R48-R0120 C00H1 - Central activerses c1 Stage R0 /the Works R48-R0120 C00H1 - Central activerses c1 Stage R0 /the Works R48-R0120 C00H1 - Stage R1 /the Prime R48-R0120 C00H1 - Stage R1 /the Prime <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
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RAB-501-300 050 H1 - Lower / Door Frame RAB-501-300 050 H1 - Access for C3 Equip, Intallation RAB-501-300 050 H1 - Access for C3 Equip, Intallation RAB-501-300 050 H1 - Power On Degree 3	RAB-KD9A10	KD9A - Projected achievement of Stage 9A of the Works		•							
RAB-50-1270 050 H1 - MEP 2nd Fk RAB-50-1270 050 H1 - MEP 2nd Fk RAB-50-1270 050 H1 - Mere 2nd Fk RAB-50-1200 050 H1 - Nexes for C3 Equip. Installation RAB-50-1200 050 H1 - Nexes for C3 Equip. Installation RAB-50-1200 050 H1 - Nexes for C3 Equip. Installation RAB-50-1200 050 H1 - Nexes for C3 Equip. Installation RAB-50-1200 050 H1 - Nexes for Panta RAB-50-1200 050 H1 - MEP Finith RAB-50-1200 050 H1 - MEP Finith RAB-50-1200 050 H1 - MEP Finith RAB-50-1200 050 H1 - MEP finith Finith RAB-50-1200 050 H1 - Installation RAB-50-1200 050 H1 - Installation of Santanyware and Fibures RAB-50-1200 050 H1 - Installation of Santanyware and Fibures RAB-50-1200 050 H1 - Installation of Santanyware and Fibures RAB-50-1200 050 H1 - Installation of Santanyware and Fibures RAB-50-1200 050 H1 - Installation of Santanyware and Fibures RAB-50-1200 050 H1 - Installation of Aluminum Cancey RAB-50-1200 050 H1 - Installation of Aluminum Cancey RAB-50-1200 050					, , , , ,						
RAB-50-1390 U0 H1 - Access for C3 Eugs, Installation RAB-50-1390 KDBB - Projected achievement of Stage 3B of the Works RAB-50-1300 00 H1 - Hower On Degree 3 RAB-50-1300 RAB-50-1300 00 H1 - Word Prame RAB-50-1300 00 H1 - Morp AFLoW Frah RAB-50-1200 00 H1 - Morp Mark RAB-50-1200 00 H1 - Morp AFLoW Frah RAB-50-1200 00 H1 - Morp Mark RAB-50-1200 00 H1 - Morp AFLoW Frah RAB-50-1200 00 H1 - Morp Mark RAB-50-1200 00 H1 - Installation of Santary Aware and Fluxes RAB-50-1200 00 H1 - Installation of Santary Aware and Fluxes RAB-50-1200 00 H1 - Installation of Santary Aware and Fluxes RAB-50-1200 00 H1 - Installation of Rower Aware and Fluxes RAB-50-1200 00 H1 - Installation of Rower Aware and Fluxes RAB-50-1200 00 H1 - Installation of Rower Aware and Fluxes RAB-50-1200 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
RAB-502610 K008-Projectal adhievement of Stage 80 of the Works RAB-501300 850 H1 - Power On Degree 3											
RAB-50-1300 B00 HI - Power On Degree 3 RAB-50-1300 B00 HI - Celing Frame RAB-50-1300 B00 HI - Wal Final RAB-50-1300 B00 HI - Wal Final RAB-50-1300 B00 HI - Wal Final RAB-50-1300 B00 HI - Celing & Fior Finah RAB-50-1200 B00 HI - Songping and Remedial RAB-50-1200 G00 HI - Songping and Remedial RAB-50-1200 G00 HI - Instalteron of Sandaryware and Fioures RAB-50-1200 G00 HI - Instalteron of Sandaryware and Fioures RAB-50-1200 G00 HI - Instalteron of Sandaryware and Fioures RAB-50-1200 G00 HI - Instalteron of Sandaryware and Fioures RAB-50-1200 G00 HI - Instalteron of Sandaryware and Fioures RAB-50-1200 G00 HI - Instalteron of Sandaryware and Fioures RAB-50-1200 G00 HI - Instalteron of Sandaryware and Fioures RAB-50-1200 G00 HI - Instalteron of Sandaryware and Fioures RAB-50-1200 G00 HI - Instalteron of Sandaryware and Rol Access Hatch RAB-50-1200 G00 HI - Instalteron al Rol Access Hatch RAB-50-1200 G00 HI - Instalteron al Rol Access Hatch RAB-50-1200 G00	RAB-50-1380				▲						
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RAB-50-1310 050 H1 - Caling Frame RAB-50-1320 050 H1 - Wall Frish RAB-50-1320 050 H1 - Wall Frish RAB-50-1320 050 H1 - Standary Remedials RAB-50-1320 050 H1 - Installation of Santary wate and Fixtures RAB-50-1320 050 H1 - Installation of Santary wate and Fixtures RAB-50-1320 050 H1 - Install Roin of Santary wate and Fixtures RAB-50-1320 050 H1 - Install Roin of Santary wate and Fixtures RAB-50-1320 050 H1 - Install Roin of Santary wate and Fixtures RAB-50-1320 050 H1 - Install Roin of Santary wate and Fixtures RAB-50-1320 050 H1 - Install Roin of Santary wate and Fixtures RAB-50-1320 050 H1 - Install Roin of Access Hatch RAB-50-1320 050 H1 - Install Roin of Access Hatch RAB-50-1320 050 H1 - Install Roin of Access Hatch RAB-50-1320 050 H1 - Install Roin of Access Hatch RAB-50-1320 050 H1 - Install Roin of Access Hatch <	RAB-50-1300	050 H1 - Power On			•						
RAB-50-1300 000 H1 - Wal Finish RAB-50-1370 050 H1 - Coling & Floor Finish RAB-50-1370 050 H1 - Coling & Floor Finish RAB-50-1380 050 H1 - MEP Final Fix RAB-50-1380 050 H1 - MEP Final Fix RAB-50-1380 050 H1 - MeP Final Fix RAB-50-1380 050 H1 - Stopping and Remodelia RAB-50-1300 050 H1 - Stopping and Remodelia RAB-50-7400 050 H1 - Installation of Santaryware and Fotures RAB-50-1320 050 H1 - Stopping and Remodelia RAB-50-1320 050 H1 - Installation of Santaryware and Fotures RAB-50-1320 050 H1 - Natallation of Santaryware and Fotures RAB-50-1130 050 H1 - Loveling screed - 140m ² RAB-50-1200 050 H1 - Instal Raling - 40m ² RAB-50-1210 050 H1 - Instal Raling - 40m RAB-50-1210 050 H1 - Instal Raling - 40m RAB-50-1200 050 H1 - Instal Raling - 40m RAB-50-110 050 H1 - Instal Raling - 40m RAB-50-1200 050 H1 - Instal Raling - 40m RAB-50-1200 050 H1 - Instal Raling - 40m RAB-50-1100 050 H1 - Instal Raling - 40m											
RAB-S0-1320 050 H1 - Celling & Floor Finish RAB-S0-1280 050 H1 - Oor panel & Ironmongery RAB-S0-1280 050 H1 - Door panel & Ironmongery RAB-S0-1280 050 H1 - Installon of Statege Col the Works RAB-S0-1280 050 H1 - Dubers and Moh Inadover Inspection Socialist Installation Sinteryware and Fixtures RAB-S0-1130 050 H1 - Installon of Sinteryware and Fixtures RAB-S0-1130 050 H1 - Installe Roof Tiles - 140m ² RAB-S0-1130 050 H1 - Install Roof Tiles - 140m ² RAB-S0-1130 050 H1 - Install Roof Tiles - 140m ² RAB-S0-1130 050 H1 - Install Roof Tiles - 140m ² RAB-S0-1130 050 H1 - Install Roof Tiles - 140m ² RAB-S0-1120 050 H1 - Install Roof Tiles - 140m ² RAB-S0-1120 050 H1 - Install Rolm / Cadding RAB-S0-1120 050 H1 - Install Rolm / Cadding RAB-S0-1120 050 H1 - Install Statingt On Xinninge <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>											
RAB-S0-1280 050 H1 - MEP Final Fix											
RAB-50-1390 050 H1 - Door panel & Ironmongery RAB-50-1290 050 H1 - Snagging and Remedials RAB-S0-1200 KD9C - Projected adhievement of Stage 9C of the Works RAB-50-7480 050 H1 - Installation of Santaryware and Fixtures RAB-50-1200 050 H1 - Installation of Santaryware and Fixtures RAB-50-1400 050 H1 - Installation of Santaryware and Fixtures RAB-50-1400 050 H1 - Installation of Santaryware and Fixtures RAB-50-1400 050 H1 - Installation of Santaryware and Fixtures RAB-50-1400 050 H1 - Installation of Santaryware and Fixtures RAB-50-1100 050 H1 - Install Railing - 48m RAB-50-1200 050 H1 - Install Railing - 48m RAB-50-1200 050 H1 - Install Railing - 48m RAB-50-1200 050 H1 - Installation inium Cancory RAB-50-1200 050 H1 - Installation dNoces Hatch RAB-50-1200 050 H1 - Installation Allows/Doors RAB-50-1200 050 H1 - Installation Allows/Doors RAB-50-1200 050 H1 - Installation Allows/Doors RAB-50-1200 050 H1 - Install Exirinal Funder RAB-50-1200 050 H1 - Install Exirinal Remder RAB-50-1200 050 H1 - Install Exirinal Remder RAB-50-											
RAB-50-120 050 H1 - Snagging and Remedials RAB-K0BC10 KDBC - Projected achievement of Stage BC of the Works Specialist installation Specialist installation RAB-50-1200 050 H1 - Installation of Sanitaryware and Fixtures Roof Finishes Image: Specialist installation RAB-50-1130 050 H1 - Leveling scred - 140m ² RAB-50-1130 050 H1 - Leveling scred - 140m ² RAB-50-1130 050 H1 - Install Roof Tiles - 140m ² RAB-50-1130 050 H1 - Install Roof Tiles - 140m ² RAB-50-1130 050 H1 - Install Roof Tiles - 140m ² RAB-50-1200 050 H1 - Install Roof Tiles - 140m ² RAB-50-1200 050 H1 - Install Roof Access Hatch RAB-50-1200 050 H1 - Install Roof Access Hatch RAB-50-1200 050 H1 - Install Skylights (SNo) External Finishes Image: RaB-0110 RAB-50-1200 050 H1 - Install Skylights (SNo) External Finishes Image: RaB-0110 RAB-50-1200 050 H1 - Install Skylights (SNo) External Finishes Image: RaB-01100 RAB-50-1130 050 H1 - Install Skylights (SNo) External Finishes Image: RaB-011100 RAB-50-1130					///						
RAB-KD9C10 KD9C - Projected achievement of Stage 9C of the Works RAB-S0-7460 050 H1 - End Users and MoM handver inspection Specialistis installation RAB-50-7420 RAB-50-7200 050 H1 - Installation of Sanitaryware and Fixtures RAB-50-1200 050 H1 - Installation of Sanitaryware and Fixtures RAB-50-1100 050 H1 - Leveling screde - 140m ² RAB-50-1100 050 H1 - Loveling screde - 140m ² RAB-50-1100 050 H1 - Install Ronger - 140m ² RAB-50-1100 050 H1 - Install Ronger - 140m ² RAB-50-1100 050 H1 - Install Ronger - 140m ² RAB-50-1100 050 H1 - Install Ronger - 140m ² RAB-50-1100 050 H1 - Install Ronger - 140m ² RAB-50-1100 050 H1 - Install Ronger - 140m ² RAB-50-1100 050 H1 - Install Ronger - 140m ² RAB-50-1100 050 H1 - Install Ronger - 140m ² RAB-50-1200 050 H1 - Install Ronger - 140m ² RAB-50-1200 050 H1 - Install Ronger - 140m ² RAB-50-1200 050 H1 - Install Ronger - 140m ² RAB-50-1200 050 H1 - Install Ronger - 140m ² RAB-50-1200 050 H1 - Install Ronger - 140m ² RAB-50-1100 050 H1 - Install Ronger - 140											
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Specialist Installation 050 H1 - Installation of Santaryware and Fixtures Rode Finishes FRAB-50-1130 050 H1 - Leveling screed - 140m ² RAB-50-1130 050 H1 - Userproof membrane - 140m ² Image: Constraint of Constra	RAB-KD9C10	KD9C - Projected achievement of Stage 9C of the Works									
RAB-50-1240 050 H1 - Installation of Sanitaryware and Fixtures RAB-50-1130 050 H1 - Leveling screed - 140m ² RAB-50-1130 050 H1 - Waterproof membrane - 140m ² RAB-50-1180 050 H1 - Install Roif Tiles - 140m ² RAB-50-1180 050 H1 - Install Roif Tiles - 140m ² RAB-50-1200 050 H1 - Install Roif Tiles - 140m ² RAB-50-1200 050 H1 - Install Roif Tiles - 140m ² RAB-50-1200 050 H1 - Install Roif Tiles - 140m ² RAB-50-1200 050 H1 - Install Roif Tiles - 140m ² RAB-50-1200 050 H1 - Install Roif Tiles - 140m ² RAB-50-1200 050 H1 - Install Roif Tiles - 140m ² RAB-50-1200 050 H1 - Install Roif Tiles - 140m ² RAB-50-1200 050 H1 - Install Roif Roif Access Hatch RAB-50-1200 050 H1 - Install Skylights (BNo) External Finates External Skylights (BNo) RAB-50-1150 050 H1 - Install External Couvers //Windows/Doors RAB-50-1150 050 H1 - Install External Tiling RAB-50-1150 050 H1 - External Tiling RAB-50-1150 050 H1 - Install External Tiling RAB-50-1150 050 H1 - External Tiling											
Roof Finishes					//// !						
RAB-50-1130 050 H1 - Leveling screed - 140m ² RAB-50-1140 050 H1 - Waterproof membrane - 140m ² RAB-50-1160 050 H1 - Top Screed - 140m ² RAB-50-1160 050 H1 - Instal Rating - 49m RAB-50-1200 050 H1 - Instal Rating - 49m RAB-50-1210 050 H1 - Instal Rating - 49m RAB-50-1200 050 H1 - Instal Rating - 49m RAB-50-1210 050 H1 - Instal Rating - 49m RAB-50-1200 050 H1 - Instal Roting RAB-50-1100 050 H1 - Instal Roting RAB-50-1100 050 H1 - Instal Roting RAB-50-1120 050 H1 - Instal Roting RAB-50-1120 050 H1 - Instal External Louvers /Windows/Doors RAB-50-1120 050 H1 - Isternal Tiling RAB-50-1120 050 H1 - External Tiling RAB-50-1200 050 H1 - Externa		050 H1 - Installation of Sanitaryware and Fixtures									
RAB-50-1140 050 H1 - Waterproof membrane - 140m ² RAB-50-1160 050 H1 - Top Screed - 140m ² RAB-50-1180 050 H1 - Install Roof Tiles - 140m ² RAB-50-1200 050 H1 - Install Railing - 49m RAB-50-1210 050 H1 - Install Cat Ladder and Roof Access Hatch RAB-50-1200 050 H1 - Install Cat Ladder and Roof Access Hatch RAB-50-4320 050 H1 - Install Aluminium Canopy RAB-50-1100 050 H1 - Install Aluminium Clading RAB-50-1100 050 H1 - Install Aluminium Clading RAB-50-1150 050 H1 - Install Skylights (8No) External Finishes Frage Sci											
RAB-50-1160 050 H1 - Top Screed - 140m ² Image: Constraint of the sector of the											
RAB-50-1180 050 H1 - Install Roof Tiles - 140m ² RAB-50-1200 050 H1 - Install Railing - 49m RAB-50-1210 050 H1 - Install Cat Ladder and Roof Access Hatch RAB-50-1210 050 H1 - Install Cat Ladder and Roof Access Hatch RAB-50-1200 050 H1 - Install Aluminium Canopy RAB-50-4470 050 H1 - Install Aluminium Cadding RAB-50-1100 050 H1 - Install Skylights (8No) External Finishes											
RAB-50-1200 050 H1 - Install Railing - 49m RAB-50-1210 050 H1 - Install Cat Ladder and Roof Access Hatch RAB-50-4470 050 H1 - Install Cat Ladder and Roof Access Hatch RAB-50-4320 050 H1 - Install Aluminium Cladding RAB-50-1100 050 H1 - Install Skylights (8No) External Finishes					////						
RAB-50-1210 050 H1 - Install Cat Ladder and Roof Access Hatch RAB-50-4470 050 H1 - Installation of Aluminium Canopy RAB-50-4320 050 H1 - Install Aluminium Cladding RAB-50-100 050 H1 - Install Skylights (8No) External Finishes											
RAB-50-4470 050 H1 - Installation of Aluminium Canopy RAB-50-4320 050 H1 - Install Aluminium Cladding RAB-50-1100 050 H1 - Install Skylights (8No) External Finishes											
RAB-50-4320 050 H1 - Install Aluminium Cladding RAB-50-1100 050 H1 - Install Skylights (8No) External Finishes											
RAB-50-1100 050 H1 - Install Skylights (8No) External Finishes RAB-50-1150 050 H1 - External Render RAB-50-1120 050 H1 - Install External Louvers /Windows/Doors RAB-50-1190 050 H1 - External Tiling RAB-50-1250 050 H1 - Dismantle Scaffolding											
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RAB-50-1190 050 H1 - External Tiling RAB-50-1250 050 H1 - Dismantle Scaffolding											
RAB-50-1250 050 H1 - Dismantle Scaffolding											
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	RAB-50-1250	050 H1 - Dismantle Scaffolding									
Remaining Level of Effort Actual Work Critical Remaining 3-Month Rolling Programme Update, 01 Sep. 2017	Remaining Level	l of Effort Actual Work Critical Remain	ning 2-Month Dolling P	rogramma Undata 01 San 20	17		RA	AB6			_

LEIGHTON 程中页	(1)	Contract No. HY/2014/	05 - Remaiı	ning Ancillary Building and	l Facilities		Page 17 of
ity ID	Activity Name	August 2017		September 2017	October 2017	November 2017	December 20
		30 06 13 20	27	03 10 17 24	01 08 15 22 2	9 05 12 19 26	6 03
RAB-50-1260	050 H1 - Make good external surfaces						
Utilities and Draina							
RAB-50-8015	050 H1 - Construct Permanent Drainage and Manholes (Approx 20n						
RAB-50-8035 RAB-50-8045	050 H1 - Install Flushing Water Mains 050 H1 - Install Fresh Water Mains		<u></u>				¦
RAB-50-8025	050 H1 - Utilities and Common Telecom Ducting						
Testing & Commiss							
	050 H1 - T&C (HVAC, FS, P&D, OTHERS)						
	ions & Approvals (Day 670 Completion)						
BBEO							
RAB-BEE-300	050 H1 - Registered Energy Assessor Inspection & Certification						
RAB-BEE-310	050 H1 - Submit REA Certification to EDMS					•	
RAB-BEE-320	050 H1 - EDMS Issue of Cert of Compliance Registration (COCR)						
Water Supplies De	epartment (WSD)						
Commencement							
Completion							
RAB-WSD-454	050 H1 - Submit WWO 46 Pt. IV	-		•			
RAB-WSD-464	050 H1 - WSD Inspection/Meter Connection for Building 050	_					
	050 H1 - WSD Issue WWO 046 Part V, Cert Plumbing Instl'n Compl					•	
Fire Servives Depa							
	050 H1 - Submit Form 314	_					
RAB-FSD-1090	050 H1 - Submit Form 501	-				•	
Engineer (AECOM		_					
RAB-50-7340	050 H1 - Submit Building 050 H1 As Built Drawings to Engineer						
Public Toilet (Portio Excavation	n H2)						
Raft							
Structure							
RAB-50-2080	050 H2 - Cure and Strip False/Formwork						
ABWF/E&M							
Internal Finishes							
Degree 1							
RAB-50-2330	050 H2 - Plastering/Rendering & Undercoat	_					
RAB-50-2170	050 H2 - MEP 1st Fix						
RAB-KD10A10	050 H2 - Projected achievement of Stage 10A of the Works	_		•			
RAB-50-2390	050 H2 - Access for C3 Cabling Works			•			
RAB-50-2310	050 H2 - Screeding						
Degree 2							
RAB-50-2360	050 H2 - Louver / Door Frame						
RAB-50-2270	050 H2 - MEP 2nd Fix						
RAB-50-2300	050 H2 - Power On	_			•		
RAB-KD10B10	050 H2 - Projected achievement of Stage 10B of the Works	_			•		
RAB-KD10B40	050 H2 - Access for C3 Equip. Installation	_			◆		
Degree 3							
RAB-50-2340	050 H2 - Ceiling Frame	-					
RAB-50-2350	050 H2 - Wall Finish	-					
RAB-50-2370	050 H2 - Ceiling & Floor Finish	_					
RAB-50-2280	050 H2 - MEP Final Fix	-					
RAB-50-2380	050 H2 - Door panel & Ironmongery						
RAB-50-7470	050 H2 - End Users and MoM handover inspection				•		
RAB-KD10C10	050 H2 - Projected achievement of Stage 10C of the Works						
Remaining Level	l of Effort Actual Work Critical Remaining	3-Month Rolli	ng Program	nme Update, 01 Sep. 2017	Date	RAB6 Revision Checke	d Approv

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PM26.02201 000 12 - Suggrag and Remediate PR26.02200 050 P2 - Installation of Santispower and Pictures RAB-50.2100 050 P2 - Leveling acread - MOR* RAB-50.2100 050 P2 - Installation of Santispower and Pictures RAB-50.2100 050 P2 - Installation of Santispower and Pictures RAB-50.2100 050 P2 - Installation of Santispower and Pictures RAB-50.2100 050 P2 - Installation of Ammittion Clearly RAB-50.2100 150 P2 - Mole acon clearly at Installation of Ammittion Clearly RAB-50.2100 150 P2 - Mole acon clearly at Installation of Ammittion Clearly RAB-50.2100 150 P2 - Mole acon clearly at Installation of Ammittion C		Activity Name	30 06			03	-	-	24	01	1			22	2
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RA5-0-220 060 H2 - External Paining Image: Contract Extension Scattering RA5-0-2200 050 H2 - Make good external surfaces Image: Contract Extension Scattering RA5-00-200 050 H2 - Make good external surfaces Image: Contract Extension Scattering RA5-07-075 050 H2 - Construct Extension During Image: Construct Extension Scattering RA5-07-075 050 H2 - Install Fresh Water Mains Image: Construct Extension Scattering RA5-07-075 050 H2 - Install Fresh Water Mains Image: Construct Extension Scattering RA5-07-075 050 H2 - Install Fresh Water Mains Image: Construct Extension Scattering RA5-07-075 050 H2 - Install Fresh Water Mains Image: Construct Extension Scattering RA5-07-075 050 H2 - Install Fresh Water Mains Image: Construct Extension Scattering RA5-05700 050 H2 - Registered Energ/Assessor Inspecton & Certification RA5-85-85 RA5-85-870 050 H2 - Submit Excentrification to Ebulding 050 Image: Construct Extension Scattering Image: Construct Extension Scattering RA8-95720 050 H2 - Submit Excentrification to Ebulding 050 Image: Construct Extension Scattering Image: Construct Extension Scattering Image: Construct Extension Scattering RA8-957205 050 H2 - Submit Extension Scattering </td <td>RAB-50-2190</td> <td>050 H2 - External Tiling</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td>	RAB-50-2190	050 H2 - External Tiling								1					
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RAB-50-7925 050 H2 - Install Fresh Water Mains Testing & Commissioning RAB-TCS-1010 050 H2 - T&C (HWC, FS, P&D, OTHERS) Statutory Submissionis & Approvals (Day 670 Completion) BBEO RAB-BEE-330 050 H2 - Registered Energy Assessor Inspection & Certification RAB-BEE-340 050 H2 - Submit REA/Certification to EDMS RAB-BEE-350 050 H2 - Submit REA/Certification to EDMS RAB-BEE-340 050 H2 - Submit REA/Certification COCCR) Vater Supplies Department (WD) Commencement Completion RAB-WSD-544 050 H2 - Submit NWO 46 Pt. IV RAB-WSD-544 050 H2 - Submit Form 314 • RAB-FSD-1110 050 H2 - Submit Form 314 • RAB-FSD-1120 050 H2 - Submit Form 314 • RAB-S0-7370 050 H2 - Submit Building 050 H1 As Built Drawings to Engineer • Vable/ Ecal VI • • • RAB-S0-7370 050 H2 - Submit Building 050 H1 As Built Drawings to Engineer • • Vable/ Ecal VI • • • • RAB-S0-7370 050 H1 - Ground Slab • • • Rate •										' 					
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Statutory Submissions & Approvals (Day 670 Completion) BBC															
BBEO RAB-BEE-330 050 H2 - Submit ReACertification to EDMS RAB-BEE-330 050 H2 - Submit REACertification to EDMS RAB-BEE-350 050 H2 - Submit REACertification to EDMS RAB-BEE-350 050 H2 - Submit REACertification to EDMS Water Supplies D=>===================================	RAB-TC50-1010	050 H2 - T&C (HVAC, FS, P&D, OTHERS)													
RAB-BEE-330 050 H2 - Registered Energy Assessor Inspection & Certification RAB-BEE-330 050 H2 - Submit REA Certification to EDMS RAB-BEE-350 050 H2 - SUbmit REA Certification (COCR) Water Supplies Department (WSD) Commencement Competion RAB-WSD-434 050 H2 - Submit WWO 46 Pt. IV RAB-WSD-434 050 H2 - Submit WWO 46 Pt. IV RAB-WSD-434 050 H2 - Submit WWO 46 Pt. IV RAB-WSD-101 050 H2 - Submit Form 314 RAB-Sp-110 050 H2 - Submit Form 314 RAB-Sp-110 050 H2 - Submit Building 050 H3 Built Drawings to Engineer Pable Tolerotor 50 H2 - Submit Building 050 H3 Built Drawings to Engineer Pable Tolerotor 50 H2 - Submit Building 050 H3 Built Drawings to Engineer RAB-Sp-1120 050 H2 - Submit Building 050 H3 As Built Drawings to Engineer Pable Tolerotor 50 H2 - Submit Building 050 H3 As Built Drawings to Engineer Pable Tolerotor 50 H2 - Submit Building 050 H3 As Built Drawings to Engineer RAB-Sp-1370 050 H2 - Submit Building 050 H3 As Built Drawings to Engineer Pable Tolerotor 50 H2 - Submit Building 050 H3 As Built Drawings to Engineer Pable Tolerotor 50 H2 - Submit Building 050 H3 As Built Drawings to Engineer RAB-Sp-1370 050 H2 - Submit Building 050 H3 As Built Drawings to Engineer Pable Tolerotor 50 H2 - Submit Building 050 H3 As Built Drawings to Engineer RAB-Sp-1370 050 H1 - Ground Slab Structure 50 H2 - Submit Fable/Formwork RAB-Sp-3080 050 H1 - Gr	atutory Submissi	ons & Approvals (Day 670 Completion)													;
RAB-BEE-340 050 H2 - Submit REA Certification to EDMS RAB-BEE-350 050 H2 - EDMS Issue of Cert of Compliance Registration (COCR) Water Supplies Department (WSD) Commencement Competion RAB-WSD-534 050 H2 - Submit WWO 46 Pt. IV RAB-WSD-534 050 H2 - Submit WWO 46 Pt. IV RAB-WSD-434 050 H2 - Submit WWO 46 Pt. IV RAB-FSD-110 050 H2 - Submit Form 314 RAB-FSD-1120 050 H2 - Submit Form 314 RAB-FSD-1120 050 H2 - Submit Form 501 Engineer (AECOM) Valie Tollet (Portion A1) Excavation RAft RAB-50-3050 050 A1 - Ground Slab Structure RAB-50-3050 050 A1 - Cure and Strip False/Forrmwork AB-WYFEAM Internal Finishes															
RAB-BEE-350 050 H2 - EDMS Issue of Cert of Compliance Registration (COCR) Water Supplies Department (WSD) Commencement Completion 050 H2 - Submit WWO 46 Pt. IV RAB-WSD-534 050 H2 - Submit WWO 46 Pt. IV RAB-WSD-434 050 H2 - WSD Inspection/Meter Connection for Building 050 Fire Services Department (VAC) RAB-FSD-1110 050 H2 - Submit Form 314 RAB-FSD-1120 050 H2 - Submit Form 501 Engineer (AECOM) RAB-50-7370 050 H2 - Submit Building 050 H1 As Built Drawings to Engineer Ublic Toilet (Portion I) Excavation RAB-50-3050 050 A1 - Ground Slab Structure RAB-50-3050 050 A1 - Cure and Strip False/Formwork AB-50-3080 050 A1 - Cure and Strip False/Formwork AB-S0-3080 050 A1 - Cure and Strip False/Formwork AB-WF/EAM Internal Finishes	RAB-BEE-330	050 H2 - Registered Energy Assessor Inspection & Certification										_		J	
Water Supplies Department (WSD)	RAB-BEE-340	050 H2 - Submit REA Certification to EDMS												•	
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Completion FAB-WSD-594 050 H2 - Submit WW0 46 Pt. IV RAB-WSD-543 050 H2 - WSD Inspection/Meter Connection for Building 050 Image: Control of the service of the servi	Vater Supplies De	partment (WSD)													
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	RAB-WSD-594 RAB-WSD-434 ire Servives Depa RAB-FSD-1110 RAB-FSD-1120 ingineer (AECOM RAB-50-7370 blic Toilet (Portion cavation aft RAB-50-3050 ructure RAB-50-3080 BWF/E&M	Intrement (VAC) 050 H2 - Submit Form 314 050 H2 - Submit Form 501 0 050 H2 - Submit Building 050 H1 As Built Drawings to Engineer n A1) 050 A1 - Ground Slab				•]								
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Remaining Level of Effort Actual Work Critical Remaining S-Month Rolling Programme Update, 01 Sep. 2017	RAB-WSD-594 RAB-WSD-434 ire Servives Depa RAB-FSD-1110 RAB-FSD-1120 ingineer (AECOM RAB-50-7370 blic Toilet (Portion cavation aft RAB-50-3050 ructure RAB-50-3080 BWF/E&M internal Finishes	Intrement (VAC) 050 H2 - Submit Form 314 050 H2 - Submit Form 501 0 050 H2 - Submit Building 050 H1 As Built Drawings to Engineer n A1) 050 A1 - Ground Slab				•									

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vity ID	Activity Name	August 2017         September 2017         October 2017         November 2017	December 201
		30     06     13     20     27     03     10     17     24     01     08     15     22     29     05     12     19	26 03
RAB-50-3310	050 A1 - Plastering/Rendering & Undercoat		
RAB-50-3170	050 A1 - MEP 1st Fix		
RAB-50-3320	050 A1 - Screeding		
RAB-50-3330	050 A1 - Access for C3 for Cabling Works		
RAB-KD11A10	KD11A - Projected achievement of Stage 11A of the Works		
Degree 2			
RAB-50-3270	050 A1 - MEP 2nd Fix		
RAB-50-3360	050 A1 - Louver / Door Frame		
RAB-50-3390	050 A1 - Access for C3 for Equip. Installation	$\bullet$	
RAB-KD11B10	KD11B - Projected achievement of Stage 11B of the Works	$\bullet$	
RAB-50-3300	050 A1 - Power On	$\bullet$	
Degree 3			
RAB-50-3340	050 A1 - Ceiling Frame		
RAB-50-3350	050 A1 - Wall Finish		
RAB-50-3370	050 A1 - Ceiling & Floor Finish		
RAB-50-3280	050 A1 - MEP Final Fix		
RAB-50-3380	050 A1 - Door panel & Ironmongery		
RAB-50-3290	050 A1 - Snagging and Remedials		
RAB-KD11C10	KD11C - Projected achievement of Stage 11C of the Works		
RAB-50-7480	050 A1 - End Users and MoM handover inspection		
Specialist instal			
RAB-50-3240	050 A1 - Installation of Sanitaryware and Fixtures		
Roof Finishes			
RAB-50-3130	050 A1 - Leveling screed - 140m ²		
RAB-50-3140	050 A1 - Waterproof membrane - 140m ²		
RAB-50-3160	050 A1 - Top Screed - 140m ²		
RAB-50-3180	050 A1 - Install Roof Tiles - 140m ²		
RAB-50-3200	050 A1 - Install Railing - 49m		//// 
RAB-50-3210	050 A1 - Install Cat Ladder and Roof Access Hatch		
RAB-50-3230	050 A1 - Installation of Aluminium Canopy		
RAB-50-4370	050 A1 - Install Aluminium Cladding		
RAB-50-3100	050 A1 - Install Skylights (8No)		
External Finishes			////
RAB-50-3150	050 A1 - External Render (From Bldg 050 H2)		
RAB-50-3120	050 A1 - IInstall External Louvers /Windows/Doors		
RAB-50-3190	050 A1 - External Tiling		
RAB-50-3220	050 A1 - External Painting		
RAB-50-3250	050 A1 - Dismantle Scaffolding		////
RAB-50-3260	050 A1 - Make good external surfaces		
Utilities and Drain			
RAB-50-7935	050 A1 - Construct Permanent Drainage and Manholes		
RAB-50-7955	050 A1 - Constituct Permanent Drainage and Manholes		
RAB-50-7905	050 A1 - Utilities and Common Telecom Ducting		
RAB-50-7945 RAB-50-7955	050 A1 - Install Flushing Water Mains		
Testing & Commis RAB-TC50-1020	050 A1 - T&C (HVAC, FS, P&D, OTHERS)		
BBEO	sions & Approvals (Day 670 Completion)		
RAB-BEE-360	050 A1 - Registered Energy Assessor Inspection & Certification		
RAB-BEE-370	050 A1 - Submit REA Certification to EDMS		
Demaister			
Remaining Lev	-	3-Month Rolling Programme Update, 01 Sep. 2017     Revision     Ched	ked Approv
Actual Level of	Effort Remaining Work 🛆 Finish Constraint	01-Sep-17 3-Month Rolling Programme, 01 Sep-17 Update SGJ	

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ity ID	Activity Name	August 2017	September 2017	October 2017	November 2017 December 2
,		30 06 13 20 27		08 15 22 29	05 12 19 26 03
RAB-BEE-380	050 A1 - EDMS Issue of Cert of Compliance Registration (COCR)				
Water Supplies Dep	partment (WSD)				
Commencement					
Completion					
	050 A1 - Submit WWO 46 Pt. IV			•	
	050 A1 - WSD Inspection/Meter Connection				
RAB-WSD-414	050 A1 - WSD Issue WWO 046 Part V, Plumbing Instl'n Compl & W $\epsilon$				
Fire Servives Depar					
	050 A1 - Submit Form 314	_			
RAB-FSD-1060	050 A1 - Submit Form 501				•
Engineer (Aecom)					
	050 A1 - Submit Building 050 A1 As Built Drawings to Engineer			•	
Public Toilet (Portion	n A2)				
Excavation					
Raft Structure					
RAB-50-4080	050 A2 - Cure and Strip False/Formwork				
	030 A2 - Cure and Strip Paise/Pointwork		-		
ABWF/E&M Internal Finishes					
Degree 1					
	050 A2 - MEP 1st Fix				
	050 A2 - Plastering/Rendering & Undercoat				
	KD12A - Projected achievement of Stage 12A of the Works				
	050 A2 - Access for C3 Cabling Works	_			
	050 A2 - Screeding	_			
Degree 2					
	050 A2 - Louver / Door Frame				
	050 A2 - MEP 2nd Fix				
	KD12B - Projected achievement of Stage 12B of the Works	—			
	050 A2 - Access for C3 Equip. Installation	_			
	050 A2 - Power On	_		•	
	050 AZ - FOWEI OII			•	
Degree 3 RAB-50-4390	050 A2 - Ceiling Frame				
	050 A2 - Ceimig Frane 050 A2 - MEP Final Fix	_			
	050 A2 - Wall Finish	_			
		_			
	050 A2 - Ceiling & Floor Finish	_			
	050 A2 - Snagging and Remedials				
	050 A2 - Door panel & Ironmongery				
Specialist installat					
	050 A2 - Installation of Sanitaryware and Fixtures			1	
Roof Finishes	0E0.42 Loveling acroad 140m ²				
	050 A2 - Leveling screed - 140m ²				
	050 A2 - Waterproof membrane - 140m ²	_			
	050 A2 - Top Screed - 140m ²	_			
	050 A2 - Install Roof Tiles - 140m ²	_			
RAB-50-4200	050 A2 - Install Railing - 49m	_			
	050 A2 - Install Cat Ladder and Roof Access Hatch				
	050 A2 - Installation of Aluminium Canopy	_			
	050 A2 - Install Aluminium Cladding	_			
	050 A2 - Install Skylights (8No)				
External Finishes					
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Remaining Level	of Effort Actual Work Critical Remaining	3-Month Rolling Pro	gramme Update, 01 Sep. 2017		RAB6 Revision Checked Approv
Actual Level of Ef	ffort Constraint Remaining Work		-	Date R	Revision Checked Appro

y ID	Activity Name			August 2017	7			Septem	ber 2017			Octo	ber 2017		
		30	06	13	20	27	03	10	17	24	01	08	15	22	Γ
RAB-50-4150	050 A2 - External Render			1							1	<u>.                                    </u>			-
RAB-50-4120	050 A2 - Install External Louvers /Windows/Doors								<u>+++++++++++++++++++++++++++++++++++++</u>		! ! !				
RAB-50-4190	050 A2 - External Tiling							I			1				
RAB-50-4220	050 A2 - External Painting											ļ			
RAB-50-4250	050 A2 - Dismantle Scaffolding														
RAB-50-4260	050 A2 - Make good external surfaces										1 1 1				
Utilities and Drainag											   				
RAB-50-7975	050 A2 - Construct Permanent Drainage and Manholes (Appro	ox 20m									1 1 1				
RAB-50-7985	050 A2 - Utiltites and Common Telecom Ducting										1 1 1				
RAB-50-7995	050 A2 - Install Flushing Water Mains										1				
RAB-50-8005	050 A2 - Install Fresh Water Mains														
Testing & Commiss															
RAB-TC50-1030	050 A2 - T&C (HVAC, FS, P&D, OTHERS)														
	ons & Approvals (Day 670 Completion)														
BBEO											, , ,				
RAB-BEE-390	050 A2 - Registered Energy Assessor Inspection & Certification	ı													
RAB-BEE-400	050 A2 - Submit REA Certification to EDMS														
RAB-BEE-410	050 A2 - EDMS Issue of Cert of Compliance Registration (CO	CR)										1			
Water Supplies De		- ,									1				
Commencement											1 1 1				
Completion											1 1 1				
RAB-WSD-124	050 A2 - Submit WWO 46 Pt. IV											•			
RAB-WSD-134	050 A2 - WSD Inspection/Meter Connection for Building 050														
Fire Servives Depa															
RAB-FSD-260	050 A2 - Submit Form 314														
RAB-FSD-270	050 A2 - Submit Form 501										1 1 1				
Engineer (AECOM)											 				
RAB-50-7430	050 A2 - Submit Building 050 H1 As Built Drawings to Enginee	r													
Building 053 - Outbo															
Excavation															
Raft											1				
Structure															
External Walls															
To First Floor Leve															
Internal Structures											1				
First Floor															
Slabs															
Cure and Strip											 				
1/F - Roof Level															
Staircases Roof Floor															
Slabs											; ;				
Cure and Strip											1				
ABWF/E&M															
Ground Floor	-														
Degree 1 - G/F											 				
Degree 2 - G/F											 ! !				
RAB-53-7935	053 - MEP 2nd Fix, G/F			I											
RAB-53-7895	053 - Frame for Wall Panel & Cladding, G/F										 				
Degree 3 - G/F															
RAB-53-0660	053 - Wall Tiling & Wall Painting Final Coat (2), G/F														
RAB-53-0730	053 - MEP Final Fix, G/F							4444444			   				
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ID	Activity Name			August 201	7			Septem	ber 2017			Octob	per 2017	
		30	06	13	20	27	03	10	17	24	01	08	15	22
RAB-53-8205	053 - Floor Painting & Tiling, G/F										LL			
RAB-53-7915	053 - Ceiling Plaster Board, G/F													
RAB-53-0710	053 - Door Panel & Ironmongery, G/F													
RAB-53-0700	053 - Glazing, G/F												-	
First Floor														
Degree 1 - 1/F														
Degree 2 - 1/F														
RAB-53-8035	053 - MEP 2nd Fix, 1/F													
RAB-53-8045	053 - Projected Achievement of Stage 1B													
RAB-53-8005	053 - Access to C3 equipment Installatrion***													
RAB-53-8015	053 - Frame for Wall Panel & Cladding, 1/F													
RAB-53-8065	053 - Power On, 1/F													
Degree 3 - 1/F														
RAB-53-8155	053 - Wall Tiling & Wall Painting Final Coat (2), 1/F													
RAB-53-8105	053 - MEP Final Fix, 1/F													
RAB-53-7985	053 - Ceiling Plaster Board Sub-Frame, 1/F													
RAB-53-8185	053 - Early handover to End Users***													
RAB-53-8215	053 - Floor Painting & Tiling, 1/F										- 			
RAB-53-7995	053 - Ceiling Plaster Board, 1/F													
RAB-53-8085	053 - Door Panel & Ironmongery, 1/F													
RAB-53-8075	053 - Glazing, 1/F													
RAB-53-8125	053 - Snagging and Remedials, 1/F													
RAB-53-8195	053 - MEP Balance of Works													
RAB-53-8095	053 - Projected Achievement of Stage 1C, 1/F										•			
External Finishes														
External Facade RAB-53-0440	053 - Install External Louvers /Windows/Doors													
RAB-53-0500	053 - External Painting													
RAB-53-0570	053 - Dismantle Scaffolding													
RAB-53-0640	053 - Make good external surfaces													
At Grade	USS - Make good external surfaces													
RAB-53-7615	053 - Prepare Sub Grade												_	
RAB-53-7885	053 - Laying Geo Textile											_		
RAB-53-7625	053 - Lay Granular Sub-Base													
RAB-53-7635	053 - Laying Course													
RAB-53-7695	053 - Concrete Block Paving													
Roof Finishes	USS - Concrete block r aving													
RAB-53-0460	053 - Waterproof Membrane - (490m ² )				•									
RAB-53-0520	053 - Install Roof Tiles - (490m ² )				-									
RAB-53-0530	053 - Install Railing - 105m													
RAB-53-0540	053 - Install Cat Ladder and Roof Hatch													
Spacialist Installat														
RAB-53-0600	053 - Install Lift (1 nos)													
Glazed Canopy														
RAB-53-0620	053 - Construct high level Canopy at +9.95mPD													
Itilities and Draina	-												_	
RAB-53-7595	053 - Construct Permanent Drainage and Manholes (Approx 135n	n)												
RAB-53-7605	053 - Utilities and Common Telecom Ducting													
RAB-53-7655	053 - Install FS Water Main		_								1			
RAB-53-7610	053 - Install Flushing Water Mains													
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				Page 22	of 25
No	ovember 20	017		December	2017
05	12	19	26	03	10
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sion ne, 01 Ser	o-17 Updat	te SGJ	hecked	Appro	ovea

LEIGHTON 程 <del>初</del>	(19)	Con	Contract No. HY/2014/05 - Remaining Ancillary Building and Facilities											Page 23 of											
vity ID	Activity Name			August 201	7			Septerr	ber 2017			Oc	tober 2017	7			Novembe	r 2017		Decemb	ber 201				
,		30	06	13	20	27	03	10	17	24	01	08	15	22	29	05	12	19	26	03					
RAB-53-7620	053 - Install Fresh Water Mains					L													i I						
Testing & Commissi	ioning																								
RAB-TC53-1040	053 - T&C (HVAC, FS, P&D, OTHERS)																								
RAB-TC53-1050	053 - T&C, Lift																								
Statutory Submission	ons & Approvals (Day 470 Completion)																								
BBEO																									
RAB-BEE-420	053 - Registered Energy Assessor Inspection & Certification										i														
RAB-BEE-430	053 - Submit REA Certification to EDMS																								
RAB-BEE-440	053 - EDMS Issue of Cert of Compliance Registration (COCR)										1. 														
EMSD - Building 05																									
RAB-FSD-150	053 - Submit EMSD Form 5 (Completion of Lift Installation)										l			•											
RAB-FSD-160	053 - EMSD Lift Inspection																								
Water Supplies Dep	partment (WSD)																								
Commencement																									
Completion													•												
RAB-WSD-100	053 - Submit WWO 46 Pt. IV												•				<u> ////////////////////////////////////</u>								
RAB-WSD-102	053 - WSD's Processing/Inspection/Meter Connection										1														
RAB-WSD-104	053 - WSD Issue WWO 046 Part V, Plumbing Compl. Cert &	Vater																							
VAC																									
RAB-FSD-1140	053 - Submit Form 314						•																		
RAB-FSD-1150	053 - Submit Form 501													•											
FSD																									
Commencement																									
Completion											; ;														
RAB-FSD-410	053 - Submit WWO 46 Pt. I V										i	•													
RAB-FSD-670	053 - Submit Form 501												•												
RAB-FSD-420	053 - FSD Inspection Period										l				:										
Engineer (AECOM)																									
RAB-53-7460	053 - Submit Building 053 As Built Drawings to Engineer											•													
	ound X-Ray Scan Tunnel																								
Excavation																									
Raft																									
Structure																									
Walls																									
South North																									
Roof Slabs											i														
Cure and Strip																									
ABWF/E&M																									
Internal Finishes																									
Degree 1																									
Degree 2																									
RAB-58-0630	058 - MEP 2nd Fix																								
RAB-58-0640	058 - Power On																								
Degree 3																									
RAB-58-0650	058 - MEP Final Fix																								
RAB-58-0700	058 - Floor Finish (Epoxy Paint)																								
RAB-58-0710	058 - Door Panel (By other)				1																				
RAB-58-7520	058 - End Users and MoM handover inspection																								
RAB-58-0660	058 - Snagging and Remedials, Bldg. Internal								*****		¦						;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;								
Roof Finishes																									
RAB-58-0510	058 - Install Roof Tiles - 885m ²																								
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Remaining Leve	l of Effort Actual Work Critical Rema	aining	2	Month	Rolling	Prog	ramme	Undat	م 11 ¢	an 2017	7						RAB6			<u>.                                    </u>					
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LEIGHTON 检·荷	600	Contract No. HY/2014/05 - Rema	Page 24 d							
rity ID	Activity Name	August 2017	September 2017	October 201		November 2017		December 20		
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RAB-58-0540	058 - Install Railing - 152m									
RAB-58-0530	058 - Install Cat Ladder and Roof Hatch									
External Finishes										
Facade RAB-58-0400	058 - Install External Louvers /Windows/Doors									
RAB-58-0400	058 - External Painting	—								
RAB-58-0560	-									
	058 - Dismantle Scaffolding						<u>,,,,,,,,,,,,,,,,,</u>			
RAB-58-0620	058 - Make good external surfaces									
At Grade Glazed Canopy										
Utilities and Draina		—								
RAB-58-7590	058 - Install FS Water main									
RAB-58-7570	058 - Install Flushing Water Mains									
RAB-58-7580	058 - Install Fresh Water Mains	—								
Testing & Commiss										
RAB-TC58-1060	058 - T&C (HVAC, FS, P&D, OTHERS)									
	ons & Approvals (Day 470 Completion)									
BBEO	ons a Approvais (bay 470 completion)									
RAB-BEE-450	058 - Registered Energy Assessor Inspection & Certification									
RAB-BEE-460	058 - Submit REA Certification to EDMS	—								
RAB-BEE-470	058 - EDMS Issue of Cert of Compliance Registration (COCR)									
VAC (FSD)										
Commencement										
Completion										
RAB-FSD-0280	058 - Submit Form 314	•								
RAB-FSD-370	058 - Submit Form 046 Part IV									
RAB-FSD-500	058 - Submit Form 046 Part V	—								
RAB-FSD-100	058 - Submit Form 501 to FSD									
Engineer (AECOM)										
RAB-58-7490	058 - Submit Building 058 As Built Drawings to Engineer			•						
Building 059 - Inbou	und X-Ray Scan Tunnel									
Excavation										
Raft Foundations										
Structure										
Walls										
West										
East										
Roof Slabs										
Cure and Strip										
ABWF/E&M Internal Finishes										
Degree 1										
Degree 2										
RAB-59-0630	059 - MEP 2nd Fix									
RAB-59-0640	059 - Power On									
Degree 3										
RAB-59-0660	059 - MEP Final Fix									
RAB-59-0700	059 - Floor Finish (Epoxy Paint)									
RAB-59-7550	059 - End Users and MoM handover inspection									
RAB-59-7560	059 - Snagging and Remedials									
Roof Finishes										
RAB-59-0540	059 - Install Roof Tiles - 885m ²									
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Remaining Leve	el of Effort Actual Work Critical Remaining		amme Update, 01 Sep. 2017			RAB6				
			annie Upuale, vi Jep. 2017	Date		Revision	Checked	Approv		

LEIGHTON 恒 荷	(15)	Contra	ct No	<b>b. HY/2</b>	014/05	- Rem	naining	Ancillar	y Buildin	g and Fa	cilities								I	Page 25 of
tivity ID	Activity Name		A	ugust 201	7			Septembe	r 2017			October 20	)17			Nove	ember 201	17		December 20
		30	06	13	20	27	03	10	17	24 01	0	3 15	5 2	2 2	29	05	12	19	26	03
RAB-59-0560	059 - Install Railing - 152m																			
RAB-59-0550	059 - Install Cat Ladder and Roof Hatch																			
External Finishes																				
Facade																				
RAB-59-0480	059 - External Painting																			
RAB-59-0650	059 - Make good external surfaces																			
RAB-59-0590	059 - Dismantle Scaffolding																			
At Grade																				
RAB-59-6700	059 - Prepare Sub Grade																			
RAB-59-6690	059 - Laying Geo Textile									////////										
RAB-59-6710	059 - Lay Granular Sub-Base																			
RAB-59-6720	059 - Laying Course																			
RAB-59-6680	059 - Concrete Block Paving																			
RAB-59-0670	059 - Snagging and Remedials																			
Glazed Canopy RAB-59-0610	059 - Construct high level glazed canopy at +13.406mPD North																			
RAB-59-0620	059 - Construct high level glazed canopy at +13.400m D North										ſ									
											L									
Utilities and Drainage RAB-59-7370	9e 059 - Install FS Water Main					1														
RAB-59-7350	059 - Install Flushing Water Mains																			
	-																			
RAB-59-7360	059 - Install Fresh Water Mains																			
Testing & Commiss RAB-TC59-1000	059 - T&C (HVAC, FS, P&D, OTHERS)										_									
BBEO	ons & Approvals (Day 470 Completion)																			
RAB-BEE-480	059 - IRegistered Energy Assessor Inspection & Certification							<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
RAB-BEE-490	059 - ISubmit REA Certification to EDMS																			
RAB-BEE-500	059 - IEDMS Issue of Cert of Compliance Registration (COCR)																			
VAC																				
RAB-FSD-550	059 - Submit Form 314																			
RAB-FSD-560	059 - Submit Form 501										••••									
Fire Services Depa											•									
Commencement																				
Completion																				
	for FS Inspection (C8 Requirement)																			
RAB-FSD-530	059 - Submit Form WWO 46 Part IV																			
RAB-FSD-540	059 - Submit Form WWO 46 Part V																			
RAB-FSD-760	059 - Submit Form 501 to FSD for FS Inspection For Building 059										•									
RAB-FSD-740	059 - FSD Inspection Period For Building 059														: <b>K</b> ////////////////////////////////////					
RAB-FSD-750	059 - Fire Certificate Obtained (Form 172) Handover For Building 05																			
	Inspection (Due to C3 Work Interface)									//////////////////////////////////////										
RAB-FSD-470	059 - Submit Form 501 to FSD for FS Inspection For Building 059										٠									
Engineer (AECOM)																				
RAB-59-7520	059 - Submit Building 059 As Built Drawings to Engineer										•									
Bidg 059 Ready f	or Engineer Inspection (C8 Requirement)																			
	or Engineer Inspection (Due to C3 Work Interface)								. / . / . / . / . / . / . / . / . / . /	<i>_/_/_/_/_/_</i> !						4 4 4 4 4 4 4 4 4 4	+/+/+/+/+/+/+/+/+/+/+/+/+/+/+/+/+/+/+/+/	4747474747474747474	<i>47/7/7/7/</i>	

Remaining Level of Effort Actual Work Critical Remaining	3-Month Rolling Programme Update, 01 Sep. 2017	L	
Actual Level of Effort Remaining Work	5-month Koning Programme Opdate, 01 Sep. 2017	Date	Revisio
		01-Sep-17	3-Month Rolling Programme

ty ID	/2013/06		2015 20	Page 2017 2018 2017
			Q2 Q3 Q4 Q1 Q2	
Hong Kon	g-Zhuhai_Macao Bridge Hong Kong Boundary Crossing F			22-Oct-17, Hong Kong-Zhuhai_Macad
📲 Key Date				
Enterface	Activities			
ng Site and I	Facility Inspection			₩ 23-Jun+17, Site and Facility Inspection
🛑 JS1200	Pre Site and Facility Inspection by Contractor at Location 4 - Deg2			Pre Site and Facility Inspection by Contractor at
🔲 JS1210	Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg2			Joint Site and Facility Inspection with Interface (
🔲 JS1620	Pre Site and Facility Inspection by Contractor at Location 14 - Deg2			Pre Site and Facility Inspection by Contractor at
🚃 JS1630	Joint Site and Facility Inspection with Interface Contractor at Location 14 - Deg2			Joint Site and Facility Inspection with Interface (
🔲 JS1760	Pre Site and Facility Inspection by Contractor at Location 18 - Deg1			Pre Site and Facility Inspection by Contractor at
🔲 JS1770	Joint Site and Facility Inspection with Interface Contractor at Location 18 - Deg1			Joint Site and Facility Inspection with Interface C
🔲 JS1780	Pre Site and Facility Inspection by Contractor at Location 18 - Deg2			Pre Site and Facility Inspection by Contractor at
🔲 JS1790	Joint Site and Facility Inspection with Interface Contractor at Location 18 - Deg2			Joint Site and Facility Inspection with Interface C
📥 Access D	Dates			24+Aug-17, Access Dates
AD1000	Location 1(PCB (001) Basement)-Deg1 (270d)			Location 1(PCB (001) Basement)-Deg1 (270d),
AD1010	Location 1(PCB (001) Basement)-Deg2 (380d)			Location 1(RCB (001) Basement)-Deg2 (380
AD1020	Location 1(PCB (001) ELV Room (Grid Line E3))-Deg1 (270d)			Location 1(PCB (001) ELV Room (Grid Line E3)
AD1030	Location 1(PCB (001) ELV Room (Grid Line E3))-Deg2 (380d)			Location 1(RCB (001) ELV Room (Grid Line L
AD1040	Location 2(PCB (001) First Floor Main Server Room)-Deg1 (330d)			Location 2(PCB (001) First Floor Main Server R
AD1050	Location 2(PCB (001) First Floor Main Server Room)-Deg2 (380d)			Location 2(PCB (001) First Floor Main Serve
AD1060	Location 2(PCB (001) First Floor Main Server Room) - For Server Installation - Deg2 (;			Location 2(RCB (001)) First Floor Main Serve
AD1070	Location 2(PCB (001) Ground Floor ELV Room (Grid Line E3)) - Deg1 (330d)		***************************************	Location 2(PCB (001) Ground Floor ELV Room
AD1080	Location 2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line BD5)) -			Location 2(PCB (001) Ground Floor DOH Port F
AD1090	Location 2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line BD5)) -			Location 2(RCB (001) Ground Floor DOH Pc
AD1130	Location 3(Inbd Cargo Exam Bldg (037) Platform Control Room)-Deg2 (500d)			S Location 3(Inbd Cargo Exam Bldg (037) Platfo
AD1150	Location 3(Inbd Cargo Exam Bldg (037) Inspector Offices 128,129,130,131,128,129,14			Location 3(Inbd Cargo Exam Bldg (037) Inspe
AD1170	Location 3a(Inbd Cargo Exam Bldg (037) ROCARS Room)-Deg2 (480d)		***************************************	Location 3a(Inbd Cargo Exam Bidg (037) ROC
AD1190	Location 3a(Inbd Cargo Exam Bldg (037) Main Server Room)-Deg2 (480d)			Location 3a(Inbid Cargo Exam Bidg (037) Not
AD1200	Location 3a(Inbd Cargo Exam Bldg (037) Main Server Room) - For Server installation -			Location 3a(Inbid Cargo Exam Bidg (037) Main Location 3a(Inbid Cargo Exam Bidg (037) Main
AD1220	Location 4(Outbd Cargo Exam Bldg (023))-Deg2 (680d)			Location 4(Outbd Cargo Exam Bidg (023))-I
AD1240	Location 4a(Outbd Cargo Exam Bldg (023))-Deg2 (630d)			Eccation #(Outbd Cargo Exam Bidg (023))
AD1270	Location 6(Common Utility Enclosure & Staff Subway)-Deg1 (400d)			Location Facebuld Cargo Exam Bidg (023) Location 6(Common Utility Enclosure & Staff Sut
AD1290	Location 7(Common Utility Enclosure & Staff Subway)-Deg1 (270d)			Location 7(Common Utility Enclosure & Staff Su
AD1300	Location 8(Inbd Private Car Annex (025))-Deg1 (430d)			Location 8(Inbd Private Car Annex (025))-De
AD1310	Location 8(Inbd Private Car Annex (025))-Deg2 (580d)			Location 8(Inbd Private Car Annex (025))-De
AD1320	Location 8(Inbd Private Car Annex (025) Canopy)-Deg1 (430d)			Location 8(Inbid Private Car Annex (025)/Car
AD1330	Location 8(Inbd Private Car Annex (025) Canopy)-Deg2 (580d)			Location 8(Inbd Private Car Annex (025) Car
AD1340	Location 9(Outbd Private Car Annex (032))-Deg1 (520d)			Location 9(Outbd Private Car Annex (022))-E
AD1350	Location 9(Outbd Private Car Annex (032))-Deg2 (660d)			Location 9(Outbd Private Car Annex:(032))-L
AD1360	Location 9(Outbd Private Car Annex (032) Canopy)-Deg1 (520d)			Location 9(Outbd Private Car Annex (032)) C
AD1370	Location 9(Outbd Private Car Annex (032) Canopy)-Deg2 (660d)			Location 9(Outbd Private Car Annex(032) Ca
AD1501	Location 12(Inbd Private Car Kiosks(027))-Deg1 (400d) Phase 2			Location 12(Inbd Private Car Klosks(027))-De
AD1510	Location 12(Inbd Private Car Kiosks(027))-Deg2 (480d) Phase 1			Location 12(Inbd Private Car Klosks(027))-Deg2
AD1511	Location 12(Inbd Private Car Kiosks(027))-Deg2 (480d) Phase 2			Location 12(Inbd Private Car Klosks(027))-Deg2
AD1521	Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg1 (400d) Phase 2			Location 12(Inbd Private Car Kiosks(027) Can
gramme No.: HZ	ZMB-DWP Actual Level of Effort V summary	Hong Kong-Zhuhai-Macao Bridge		Date Revision Checked Appr
a Date: 14-Aug-		Hong Kong Boundary Crossing		14-Nov-16 Rev.: 0 WC LC
-	Actual Work	Facilities - Automatic Vehicle		10-Mar-17         Rev.: 1.0a         WC         LC           5-May-17         Rev.: 1.0b         WC         LC
	Remaining Work	Clearance Support System (AVCSS)		
	Critical Remaining Work			
	A Baseline Milestone			
	♦ ♦ Milestone	1		

ĺ	3/06 Activity Name	
L	ocation 12(Inbd Private Car Kiosks(027) Canopy)-Deg2 (480d) Phase 1	
	on 12(Inbd Private Car Kiosks(027) Canopy)-Deg2 (480d) Phase 2	
	Location 12(Inbd GV Kiosks (028))-Deg1 (400d) Phase 1	
)	Location 12(Inbd GV Kiosks (028))-Deg1 (400d) Phase 2	
C	Location 12(Inbd GV Kiosks (028))-Deg2 (480d) Phase 1	
	Location 12(Inbd GV Kiosks (028))-Deg2 (480d) Phase 2	
0	Location 12(Inbd GV Kiosks (028) Canopy)-Deg1 (400d) Phase 1	
561	Location 12(Inbd GV Kiosks (028) Canopy)-Deg1 (400d) Phase 2	
570	Location 12(Inbd GV Kiosks (028) Canopy)-Deg2 (480d) Phase 1	
571	Location 12(Inbd GV Kiosks (028) Canopy)-Deg2 (480d) Phase 2	
580	Location 12(Outbd GV Kiosks (029))-Deg1 (400d) Phase 1	
31	Location 12(Outbd GV Kiosks (029))-Deg1 (400d) Phase 2	
	Location 12(Outbd GV Kiosks (029))-Deg2 (480d) Phase 1	
	Location 12(Outbd GV Kiosks (029))-Deg2 (480d) Phase 2	
-	Location 12(Outbd GV Kiosks (029) Canopy)-Deg1 (400d) Phase 1	
_	Location 12(Outbd GV Kiosks (029) Canopy)-Deg1 (400d) Phase 2	
-	Location 12(Outbd GV Klosks (029) Canopy)-Deg2 (480d) Phase 2	
-	Location 12(Outbd GV Kiosks (029) Canopy)-Deg2 (480d) Phase 2	
	Location 13(Outbd Private Car Kiosks (030))-Deg1 (480d) Phase 1	
	Location 13(Outbd Private Car Kiosks (030))-Deg2 (550d) Phase 1	
_	Location 13(Outbd Private Car Kiosks (030)/Deg2 (0300) Phase 1	
	Location 13(Outbd Private Car Kiosks (030) Canopy)-Deg1 (4000) Phase 1	
_		
60 70	Location 14(Future-Outbd/Inbd Private Car Kiosks)-Deg1 (610d)	
01670	Location 14(Future-Outbd/Inbd Private Car Kiosks)-Deg2 (680d)	
1700	Location 16(Outbd Traffic Control Kiosk (101))-Deg1 (400d)	
01710	Location 16(Outbd Traffic Control Kiosk (101))-Deg2 (480d)	
1740	Location 18(Outbd Private Car Exam Bldg(024))-Deg1 (-)	
1750	Location 18(Outbd Private Car Exam Bldg(024))-Deg2 (670d)	
780	(by C03) Underground Ducting (UUD1.1) between CUE and Inbd Cargo Exam Bldg (0	
1790	(by C03) (UUD1.2) between Inbd Cargo Exam Bldg South (037[S]) and DOH Cargo C	
01800	(by C03) (UUD2) between Inbd Cargo Exam Bldg North (037[N]) and Inbd Vehicle Clei	
01810	(by C03) (UUD9.1) btw Inbd Cargo Exam Bldg S.(037[S]) & Inbd PC Exam Bldg(033) ∤	
01820	(by C03) (UUD9.3) between Inbd Private Car Exam Bldg (033) and Inbd Vehicle Cleara	
01830	(by C03) (UUD9.2) between Inbd Private Car Exam Bldg (033) and Inbd Vehicle Cleara	
01840	(by C03) Underground Ducting (UUD3.1) between CUE to Outbd Cargo Exam Bldg (0.	
D1850	(by C03) (UUD3.2) btw Outbd Car Exam Bldg (023) and Outbd PC Exam Bldg (024) a	
D1860	(byC03) (UUD4.1) between Outbd Private Car Exam Bldg (024) and Outbd Vehicle Cle	
D1870	(byC03) (UUD5) between Outbd Car Exam Bldg South (023[S]) and Outbd Vehicle Cle	
D1880	(by C03) Underground Ducting (UUD8) between CUE and Outbd PCA (032)	
D1910	(by C03) Inbound Vehicle Clearance Plaza	
920	(by C03) Outbound Vehicle Clearance Plaza	
faces P	rovisions	
ization	Provisons	
Site Er	ection & Servicing	
o.: HZMI	B-DWP Actual Level of Effort V summar	Hong Kong-Zhuhai-Macao Bridge
4-Aug-15	Primary Baseline	Hong Kong Boundary Crossing
	Actual Work	
	Remaining Work	Facilities - Automatic Vehicle
	Critical Remaining Work	Clearance Support System (AVCSS)

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Milestone

							Page	e 2 of	8
20	17			20	18		2	019	
Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
8	Locatio	n 12(li	nbd Pr	ivate C	ar Kios	sks(027	7) Can	opy)-D	eg2
	ᄎ Lo	cation	12(Inb	d Priva	ate Car	Kiosks	(027)	Canop	y)-C
8	Locatio	n 12(Ir	hbd G\	/ Kiosk	s (028)	)-Deg	1 (400	l) Pha	se 1
	Loca	tion 12	(Inbd	GV Kio	sks (02	28))-De	eg1 (40	00d) Pl	hase
8	Locat	ion 12(	Inpd C	V Kios	ks (028	3))-Þe	g2 (48	0d) Þh	ase
	👌 Loc	ation 1	2(Inbo	GV K	iosks (C	)28))-C	)eg2 (4	80d) I	Pha
8	Locatio	n 12(Ir	nbd G\	/ Kiosk	s (028)	Cano	py)-De	g1 (40	(b0
	Loca	tion 12	(Inbd	GV Kio	sks (02	28) Çai	nopy)-l	Deg1 (	400
8	Locat	ion 12(	Inbd C	V Kios	sks (028	3) Can	opy)-D	eg2 (4	180d
	💍 Loc	ation 1	2(Inbo	GV K	iosks (C	28) Ca	anopy)	-Deg2	(48
					sks (02			''	
	Loca	ition 12	(Outbo	ġ ĠV K	iosks ((	029))-[	Deg1 (	400d)	Pha
8	Locat	ion 12(	Outbd	GV Ki	osks (0	29))-D	eg2 (4	80d) F	has
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Date	Revision	Checked	Approved
Nov-16	Rev.: 0	WC	LC
Mar-17	Rev.: 1.0a	WC	LC
lay-17	Rev.: 1.0b	WC	LC

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L Detailed I	Design Specification		Q2	Q3	04			22	Q3	Q4				0.5	Q4	Q1			23 (			_
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Location	1(PCB (001) Basement)												₩	22-J	lun-17,	Locat	tion 1	(PCB	(001)	Baser	nent)	
EM1920	0 L1(001)B/F - Cable Laying and termination at Location 1 and Location 2													Ļ1(0	01)B/F	- Ca	ble La	aying	and te	rminat	ion at	:
Location	1(PCB (001) ELV Room (Grid Line E3))												₩	22-J	lun-17,	Locat	tion 1	(PCB	(001)	ELV F	Room	(
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Location	2(PCB (001) Ground Floor ELV Room (Grid Line E3))													22-J	lųn+17,	Locat	tion 2	(PCB	(001)	Grour	nd Flo	C
EM1960	L2(001)ELV Rm - Cable Laying and termination at Location 1 and Location	2												L2(0	01)EL	V Rm	- Cab	ole La	ying ai	nd terr	ninatio	3
Location	2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line	e BD5))											1 1 1	1.1	18-Aug	1.1.1	1.1	111			1 1 1	
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	1 3(Inbd Cargo Exam Bidg (037) MDF Room) 1 3(Inbd Cargo Exam Bidg (037) ELV Room)																					
	i 3(Inbd Cargo Exam Bidg (037) Inspector Offices 128,129,130,131,12	28 129 14													7-Aug	-17, L	ocatio	on 3(Ir	nbd Ca	argo E	xam E	3
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Location	3 (Inbd Cargo Exam Bidg (037) Platform Control Room)														7-Aug	-17, L	ocatio	on 3(Ir	nbd Ca	argo E	xam E	3
😑 EM1160	0 L3(037)PLF Ctrl Rm - Cable Laying and termination in Location 3 and Loca	tion 3a												L3(0	037)PL	F Ctrl	Rm -	Cabl	e Layi	ng aho	l term	ıir
🔲 EM1180	0 L3(037)PLF Ctrl Rm - Cable Splicing and Testing and Labeling													L3	(037)P	LF Ct	rlRm	- Cat	ole Sp	licing a	nd Te	25
🔲 EM1200	0 L3(037)PLF Ctrl Rm - AVCSS SYSCON WS and 55" TV Wall Installation														3(037)	4						
🔲 EM1220	0 L3(037)PLF Ctrl Rm - AVCSS SYSCON WS Tuning													I L	3(037	PLF (	Ctrl R	m - A'	vcss	SYSC	ON V	۷
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ta Date: 14-Aug-		Hong Kong Boundary Crossing											lov-1		Rev.:			WC			C	
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Activity Name  a(Inbd Cargo Exam Bldg (037) ROCARS Room) L3a(037) ROCARS Rm - Cable Laying and termination in Location 3 and L3a(037) ROCARS Rm - Cable Splicing and Testing and Labeling L3a(037) ROCARS Rm - AVCSS SYSCON and SURCON and Intercom I L3a(037) ROCARS Rm - VTS WS Installation L3a(037) ROCARS Rm - VID WS Installation L3a(037) ROCARS Rm - VID WS Installation L3a(037) ROCARS Rm - SURCON and SYSCON and WS Tuning a(Inbd Cargo Exam Bldg (037) Main Server Room) L3a(037)Main Server Rm - Cable Laying and termination in Location 3 an L3a(037)Main Server Rm - Cable Splicing and Testing and Labeling L3a(037)Main Server Rm - VTS Server Installation L3a(037)Main Server Rm - VTS Server Installation L3a(037)Main Server Rm - Servers Tuning (Outbd Cargo Exam Bldg (023) MDF Room) a(Outbd Cargo Exam Bldg (023) ROCARS Room) L4a(023)ROCARS Rm - AVCSS SYSCON and SURCON and Intercom Ir L4a(023)ROCARS Rm - VTS WS Installation	nstallation
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L3a(037) ROCARS Rm - Cable Laying and termination in Location 3 and         L3a(037) ROCARS Rm - Cable Splicing and Testing and Labeling         L3a(037) ROCARS Rm - AVCSS SYSCON and SURCON and Intercom I         L3a(037) ROCARS Rm - VTS WS Installation         L3a(037) ROCARS Rm - VTS WS Installation         L3a(037) ROCARS Rm - VID WS Installation         L3a(037) ROCARS Rm - VID WS Installation         L3a(037) ROCARS Rm - SURCON and SYSCON and WS Tuning         a(Inbd Cargo Exam Bldg (037) Main Server Room)         L3a(037)Main Server Rm - Cable Laying and termination in Location 3 an         L3a(037)Main Server Rm - Cable Splicing and Testing and Labeling         L3a(037)Main Server Rm - AVCSS Server Installation         L3a(037)Main Server Rm - VTS Server Installation         L3a(037)Main Server Rm - VTS Server Installation         L3a(037)Main Server Rm - Servers Tuning         (Outbd Cargo Exam Bldg (023) MDF Room)         a(Outbd Cargo Exam Bldg (023) ROCARS Room)         L4a(023)ROCARS Rm - Cable Splicing and Testing and Labeling         L4a(023)ROCARS Rm - AVCSS SYSCON and SURCON and Intercom Ir	nstallation
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L4a(023)ROCARS Rm - VTS WS Installation	nstallation
L4a(023)ROCARS Rm - SYSCON and SURCON and WS Tuning	1
(Common Utility Enclosure & Staff Subway)	
L5(CUE) - Cable Laying between Location 5 and Location 6	
L5(CUE) - Cable Laying between Location 5 and Location 7	
L5(CUE) - Cable Splicing and Testing and Labeling	
(Common Utility Enclosure & Staff Subway)	
L6(CUE) - Cable Laying between Location 5 and Location 6	
L6(CUE) - Cable Splicing and Testing and Labeling	
(Common Utility Enclosure & Staff Subway)	
L7(CUE) - Cable Laying between Location 5 and Location 7	
L7(CUE) - Cable Splicing and Testing and Labeling	
2(Inbd Private Car Kiosks,GV Kiosks (027,028,029))	
rate Car Kiosks(027) - 9 nos (Phase 1)	
00 L12(027)(9nos P1) - Cable Splicing and Testing and Labeling	
20 L12(027)(9nos P1) - AVCSS/MOM Kiosk Equipment Installation (9 nos)	
11 L12(027)(9nos P1) - XDB installation (18 nos)	
12 L12(027)(9nos P1) - ODB installation (5 nos)	
60 L12(028)(5nos P1) - AVCSS/MOM Kiosk Equipment Installation (5 nos)	
1 L12(028)(5nos P1) - XDB installation (10 nos)	
B1         L12(028)(5nos P1) - XDB installation (10 nos)           B2         L12(028)(5nos P1) - ODB installation (3 nos)	
12 12 50 20	3       L12(027)(9nos P1) - ODB installation (2 nos)         4       L12(027)(9nos P1) - ODB installation (2 nos)         0       L12(027)(9nos P1) - Loop installation (45 nos)         d       Vehicle Kiosks(028) - 5 nos (Phase 1)         0       L12(028)(5nos P1) - Cable Laying and termination         0       L12(028)(5nos P1) - Cable Splicing and Testing and Labeling         0       L12(028)(5nos P1) - AVCSS/MOM Kiosk Equipment Installation (5 nos)         1       L12(028)(5nos P1) - XDB installation (10 nos)

Programme No.: HZMB-DWP Data Date: 14-Aug-15	Actual Level of Effort Summary Primary Baseline Actual Work Remaining Work Critical Remaining Work Saseline Milestone	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities - Automatic Vehicle Clearance Support System (AVCSS)	1	l 14-No 10-Ma 5-May
	<ul><li>♦ Milestone</li></ul>			

							Page	e 4 of	8
	2017			20	18		-	2019	-
Q1	Q2 Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
	0	7-Aug-	17, Lo	cation :	3a(Inbo	Carg	o Exar	n Bidg	(03
	📕 L3a	(037) F		S Rm	- Cable	e Layin	g and	termin	atio
		a(037)							1 1
		Ba(1037)							
		a(037)	ROC	ARS R	m - VT	sws	Installa	ation	
		Ba(037)	ROC		m - VIC	) wsi	nstalla	tion	
		3a(037							
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	📮 L3a	(037)M	ain Se	rver Ri	m - Cal	olė Lay	/ing an	d term	inat
	📕 L3a	a(037)N	/lain S	erver F	Rm - Ca	able Sp	olicing	and Te	sting
		3a(037	)Main \$	Server	Rm - A	vcss	Serve	r Insta	llatic
	L:	3a(037	Main	Server	Rm - V	/TS Se	rver Ir	stallat	ion
	1 I I	3a(037	)Main	Server	Rm - §	Server	s Tunii	ng	
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		L12(02							
	<b>****</b>	30-Aug	g-17, Ir	ibd Go	ods Ve	hi¢le K	iosks((	)28) -	5 no
		028)(5r	nos P1	) - Cat	le Layi	ng ang	l termi	nation	
		(028)(5	nos P	1) - Ca	ble Spl	icing a	nd Tes	ting a	hd L
	📮 L12	(028)(5	nos P	1) - AV	C\$S/M	OM Ki	osk Eq	uipme	nt Ir
	🖣 L12	(028)(	5nos P	1) - XC	)B insta	allation	(10 no	ps)	
	!!!! !	(028)(							
	<b>I L</b> 1	2(028)	(5nos	P1) - C	DB ins	tallatio	n (2 n	os)	

Date	Revision	Checked	Approved
Nov-16	Rev.: 0	WC	LC
Mar-17	Rev.: 1.0a	WC	LC
lay-17	Rev.: 1.0b	WC	LC

Contract No.: HY/2013/06		Pa
Activity ID Activity Name		2015 2016 2017 2018
		Q2 Q3 Q4 Q1
EM1700 L12(028)(5nos P1) - AIOP Installation (5 nos)		L12(028)(5nos P1) -AlOP Installation (5
EM1720 L12(028)(5nos P1) - Loop installation (25 nos)		L12(028)(5nos P1) - Loop installation
Outbd Goods Vehicle Kiosks(029) - 5 nos (Phase 1)		25-Aug-17, Outbd Goods Vehicle Kios
EM1740 L12(029)(5nos P1) - Cable Containment in Kiosks		L12(029)(5nos P1) - Cable Containment in
EM1760 L12(029)(5nos P1) - Cable Laying and termination		L12(029)(5hos P1) - Cable Laying and teri
EM1780 L12(029)(5nos P1) - Cable Splicing and Testing and Labeling		L12(029)(5nps P1) - Cable Splicing and T
EM1800 L12(029)(5nos P1) - AVCSS/MOM Kiosk Equipment Installation (5 nos)		L12{029)(5nos P1)- AVC\$S/MOM Kiosk E
EM1821 L12(029)(5nos P1) - XDB installation (5 nos)		L12(029)(5nos P1) - XDB installation (5 n
EM1822 L12(029)(5nos P1) - ODB installation (4 nos)		L12(029)(5nos P1) - ODB installation (4
EM1823 L12(029)(5nos P1) - ODB installation (1 nos)		l, L12(029)(5nos P1) - ODB installation (
EM1840 L12(029)(5nos P1) - AIOP Installation (5 nos)		L12(029)(5nos P1) - AIOP Installation (5
Location 13(Outbd Private Car Kiosks (030)) - 9 nos (Phase 1)		❤━━❤ 29-Aug-17, Location 13(Outbd Private
EM2520 L13(030)(9nos P1) - Cable Containment in Kiosks		L13(030)(9nos:P1) - Cable Containmen
EM2540 L13(030)(9nos P1) - Cable Laying and termination		L13(030)(9nos P1) - Cable Laying and
EM2560 L13(030)(9nos P1) - Cable Splicing and Testing and Labeling		🖳 L13(030)(9nos P1) - Cable Splicing ar
EM2580 L13(030)(9nos P1) - AVCSS/MOM Kiosk Equipment Installation (9 nos)		L13(030)(9nos P1) - AVC\$S/MOM Kips
EM2601 L13(030)(9nos P1) - XDB installation (9 nos)		L13(030)(9rios P1) - XDB installation (\$
EM2602 L13(030)(9nos P1) - ODB installation (7 nos)		L13(030)(9nos P1) - ODB installation (
Location 14(Future-Outbd/Inbd Private Car Kiosks) - 6+6 nos		v▼ 08-Jul-17, Location, 14(Future-Outbd/Inbd
EM1440 L14 - Cable Laying and termination at ELV Room in CUE		L14- Cable Laying and termination at ELX
Location 15(Inbd Traffic Control Kiosk (100))		
Location 16(Outbd Traffic Control Kiosk (101))		v → v 29-Aug-17, Location 16(Outbd Traffic
EM2760 L16(101) - Cable Laying and termination		L16(101) - Cable Laying and termination
EM2780 L16(101) - Cable Splicing and Testing and Labeling		L16(101) - Cable Splicing and Testing and L
EM2800 L16(101) - AVCSS SYSCON and SURCON Installation		L16(101) - AVCSS SYSCON and SUF
EM2820 L16(101) - VTS WS and 55" LCD Installation		L16(101) - VTS WS and 55" LCD Inst
Location 17(Inbd Private Car Exam Bldg(033) Operational Office)		
Location 18 (Outbd Private Car Exam Bldg(024) Operational Office)		▼ 07-Jul-17, Location 18 (Outbd Private Car
EM2940 L18(024) - Cable Laying and termination		🖡 L18(024) - Cable Laving and termination
EM2960 L18(024) - Cable Splicing and Testing and Labeling		L18(024) - Cable Splicing and Testing and
EM2980 L18(024) - AVCSS SURCON and 55" LCD Installation		┃ L18(024) - AVCSS SURCON and 55" LCI
EM3000 L18(024) - SURCON Tuning		I L18(024) - SURÇON Tuning
Location 19 (DOH Cargo Clearance Bldg(043))		To-Jul-17, Location 19 (DOH Cargo Clear
EM1360 L19(043) - Cable Laying and termination		L19(043) - Cable Laying and termination
EM1380 L19(043) - Cable Splicing and Testing and Labeling		L19(043) - Cable Splicing and Testing and
EM1400 L19(043) - PA and Intercom Installation		L19(043) - PA and Intercom/Installation
EM1420 L19(043) - PA and Intercom Tuning		🛿 L19(043) - PA and Intercom Tuning
Inbd Vehicle Clearance Plaza - 8 nos VID, 7 nos VTS, 4 nos TLS		02-Aug-17, Inbd Vehicle Clearance Plaz
EM3020 Inbound VID cabling from pillar box to VID field equipment		📮 Inbound VID cabling from pillar box to VID f
EM3040 Inbound VTS cabling from pillar box to VTS field equipment		Inbound VTS cabling from pillar box to VTS
EM3060 Inbound TLS cabling from pillar box to TLS field equipment		Linbound TLS cabling from pillar box to TL
EM3080 Inbound VID field equipment installation (8 VID)		📮 Inbound VID field equipment installation
EM3100 Inbound VTS field equipment installation (4 RFID + 3 Cameras)		Linbound VTS field equipment installation
EM3120 Inbound TLS field equipment installation (4 TLS)		Inbound TLS;field;equipment;installation
EM3140 Inbound VID and VTS and TLS field equipment tuning		Inbound VID and VTS and TLS field equ
Programme No.: HZMB-DWP Actual Level of Effort V summar	^y Hong Kong-Zhuhai-Macao Bridge	Date Revision Checked A
Data Date: 14-Aug-15 Primary Baseline		14-Nov-16 Rev.: 0 WC LC
Actual Work	Hong Kong Boundary Crossing	10-Mar-17 Rev.: 1.0a WC LC
Remaining Work	Facilities - Automatic Vehicle	5-May-17 Rev.: 1.0b WC LC
	Clearance Support System (AVCSS)	

Critical Remaining Work

Baseline Milestone

Milestone

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Date	Revision	Checked	Approved
Nov-16	Rev.: 0	WC	LC
Mar-17	Rev.: 1.0a	WC	LC
1ay-17	Rev.: 1.0b	WC	LC

Contract No.: HY/20	013/06								
y ID	Activity Name					2015			
OutbdVah				Q2		Q3	Q3 Q4 Q1	Q3 Q4 Q1 Q2	Q3 Q4 Q1 Q2 Q3 C
EM3160	icle Clearance Plaza - 8 nos VID, 6 nos VTS, 4 nos TLS Outbound VID cabling from pillar box to VID field equipment								1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1
= EM3180	Outbound VTS cabling from pillar box to VTS field equipment								
EM3200	Outbound TLS cabling from pillar box to TLS field equipment					ļ			
EM3220	Outbound VID field equipment installation (8 VID)			+ + + - + - +	::				
EM3240	Outbound VTS field equipment installation (3 RFID + 3 Cameras)								
EM3260	Outbound TLS field equipment installation (4 TLS)								
EM3280	Outbound VID and VTS and TLS field equipment tuning								
📕 Undergrou	Ind Ducting (UUD1.1) between CUE and Inbd Cargo Exam Bldg (0	(37)							
	(UUD1.1 [CUE-037]) - Cable laying and termination			+ - + - 4 - 4			*	-1	
📕 (UUD1.2) k	between Inbd Cargo Exam Bidg South (037[S]) and DOH Cargo Cle	earance B							
	(UUD1.2 [037[S]-043]) - Cable laying and termination								
📕 Undergrou	nd Ducting (UUD6) between CUE and Shuttle Bus Kiosk (006) and	d Inbd Priv							
📕 (UUD9.1) k	otw IB Cargo Exam Bidg South(037[S]) & IB PC Exam Bidg(033) &	B Traffic							
🔲 UD1040	(UUD9.1 [037[S]-033-100) - Cable laying and termination								
	tween Inbd Cargo Exam Bldg North (037[N]) to Inbd VCP								ł
	(UUD2 [037[N]-IB VCP]) - Cable laying and termination								
	petween Inbd Private Car Exam Bldg (033) and Inbd Vehicle Cleara	ance Plaza							
	(UUD9.3 [033-IB VCP[W]) - Cable laying and termination					· · · · · · ·	· · · · ·		-
	between Inbd Private Car Exam Bldg (033) and Inbd Vehicle Cleara	ance Plaza							
	(UUD9.2 [033-IB VCP[E]) - Cable laying and termination								
	Ind Ducting (UUD7) between PCB(001) and Inbd Coach Kiosks(01								
	Ind Ducting (UUD3.1) between CUE and Outbd Cargo Exam Bldg (	(023)							
	(UUD3.1 [CUE-023]) - Cable laying and termination			+ - +			*		
	otw OB Car Exam Bldg(023) & OB PC Exam Bldg(024) & OB Traffi	C Control F							
	(UUD3.2 [023-024-101]) - Cable laying and termination								
	Ind Ducting (UUD8) between CUE and Outbd PCA (032)								
	(UUD8 [CUE-032]) - Cable laying and termination	Plaza							
	etween Outbd PC Exam Bldg (024) and Outbd Vehicle Clearance (UUD4.1 [024-OB VCP]) - Cable laying and termination	riaza -		+ - + - 4 - 4					
	tween Outbd Car Exam Bldg (023[S]) and Outbd Vehicle Clearanc	o Plaza							
	(UUD5 [023[S]-OB VCP]) - Cable laying and termination								
	Site Test and Commissioning / Pre-SAT (Phase 1 / Sec	ction I)							
	· · · · · · · · · · · · · · · · · · ·								
	tance Test (Phase 1 / Section I)						+		-
	isk Assessment and Audit								
Operability	/ Period Test (Phase 1 / Section I)								
E Completio	n (Phase 1 /Section I)								
📇 Training ar	nd Document (Phase 1 /Section I)								
	(Phase 1 /Section I)								
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	ng Support for Phase 1 / Section I								
	ent - Phase 2 / Section II								
💾 Delivery ar	nd Bench Acceptance Test for Phase 2/Section II								
Installation	n - Phase 2 / Section II								
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rogramme No.: HZN		summary Hong Kong-2	Zhuhai-Macao Bridge						
Data Date: 14-Aug-15		Hong Kong	Boundary Crossing						
	Actual Work	Facilities -	Automatic Vehicle						
	Remaining Work	Clearance Su	oport System (AVCSS)						
	Critical Remaining Work		,						
	♦ Baseline Milestone								
	♦ Milestone								

Contract No.: HY/20	13/06 Activity Name				2015				2016				20.4
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	(Intel Private Con Amery (025)) (Phase 2)			I C	22 0	23 Q4	4 Q1	Q2	2 Q3	Q4	Q1		Q2
EM3370	Inbd Private Car Annex (025)) (Phase 2) L8(025) - Cable Containment in Kiosks			1 - 1									<u>.</u>
													1
EM3380	L8(025) - Cable Laying and termination												
EM3400	L8(025) - Cable Splicing and Testing and Labeling												
	Outbd Private Car Annex (032)) (Phase 2)												
EM3500	L9(032) - Cable Containment in Kiosks												
🔲 EM3520	L9(032) - Cable Laying and termination												
📑 Initial On-S	ite Test and Commissioning / Pre-SAT (Phase 2 / Sectio	on II)											
E Site Accent	tance Test (Phase 2 / Section II)	-											
	Period Test (Phase 2 / Section II)												
Completion	n (Phase 2 / Section II)												
🖶 Engineerin	g Support for Phase 2 / Section II											-	
	ent for Phase2 / Section III												
	d Bench Acceptance Test for Phase2 / Section III												
Installation	- Phase 2 / Section III											Ì	Y
Location 10	0,11,12,13 (Vehicle Clearance Kiosks)												•
	12 Inbd Private Car Kiosks (027) - 12 nos (Phase 2)			+ - + 									V
🔲 🔲 EM444	0 L12(027)(12nos P2) - Cable Laying and termination												
🔲 🔲 EM446	0 L12(027)(12nos P2) - Cable Splicing and Testing and Labeling												
🔲 🔲 EM448	0 L12(027)(12nos P2) - AVCSS/DOH/MOM Kiosk Equipment Installation (12 nos	6)											
	13 Outbd Private Car Kiosks (030) - 12 nos (Phase 2)												
	0 L13(030)(12nos P2) - Cable Containment in Kiosks			T - T									
Location	12 Outbd Goods Vehicle Kiosks (029) - 3 nos (Phase 2)												
	0 L12(029)(3nos P2) - Cable Laying and termination												
🔲 🔲 EM490	0 L12(029)(3nos P2) - Cable Splicing and Testing and Labeling												
	0 L12(029)(3nos P2) - AVCSS/DOH/MOM Kiosk Equipment Installation (3 nos)												
	0 L12(029)(3nos P2) - ODB & XDB Installation (3 nos)												·
	0 L12(029)(3nos P2) - AIOP Installation (3 nos)												
	0 L12(029)(3nos P2) - Loop Installation (15 nos)												
	11 Outbd Coach Kiosks (009) - 4 nos (Phase 2)												
	12 Inbd Goods Vehicle Kiosks (028) - 3 nos (Phase 2)												•
	0 L12(028)(3nos P2) - Cable Laying and termination			† - †			r-r-i-i						
🔲 🧰 EM474	0 L12(028)(3nos P2) - Cable Splicing and Testing and Labeling												
🔲 🔲 EM476	0 L12(028)(3nos P2) - AVCSS/DOH/MOM Kiosk Equipment Installation (3 nos)												
	0 L12(028)(3nos P2) - ODB & XDB Installation (3 nos)												
	0 L12(028)(3nos P2) - AIOP Installation (3 nos)												
	0 L12(028)(3nos P2) - Loop Installation (15 nos)			+ - +									·
	0 L12(028)(3nos P2) - Kiosk Equipment Configuration (3 nos)												
	0 L12(028)(3nos P2) - Inbd Goods Vehicle Kiosks Installation Complete											-	
	10 Shuttle Bus Kiosks (006) - 4 nos (Phase 2)												
	0 L10(006)(4nos P2) - Cable Containment in Kiosks												
	11 Inbd Coach Kiosks (010) - 2 nos (Phase 2)-1			1 - 1									·
	11 Inbd Coach Kiosks (010) - 2 nos (Phase 2)-2												
	ite Test and Commissioning / Pre-SAT (Phase 2 / Sectio	on III)											
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	(D. DWD. Actual and of Effort	Summony											Date
Programme No.: HZN		summary	Hong Kong-Zhuhai-Macao Bridge								1	4-N	4-Nov-1
Data Date: 14-Aug-15			Hong Kong Boundary Crossing										0-Mar-1
	Actual Work		Facilities - Automatic Vehicle								5	-Ma	-May-17
	Remaining Work		Clearance Support System (AVCSS)										
	Critical Remaining Work												
	<ul> <li>Baseline Milestone</li> </ul>												
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		201	7		20	18		20	19	
Q4	Q1	Q2	Q3 Q4	Q1	Q2	Q3	Q4	Q1		23
			30-Au L8(025) -	J.J.J.,				te Car A ks	nnex (	02
						-		ation ing and	l'abolir	
			30-Au	g-17, L	ocatior	9(Out	bd Priv	/ate Car		
	- 4 - 4 - 4 - 4		L9(032)	- Cabl 2) - Cal				!!!		
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			<u>+          </u>	1 1 1				rivate Ca	1 1 1	
				27)(12r 2(027)(	ios P2) 12nos	- Cab P2) - A	le Splic VCSS/	- i i i	Testing OM Kio	g a osk
			📕 L13(0	30)(12	nos P2	) - Cab	le Con	tainmen oods Vel	t in Kio	sk
			L12(029) L12(029	(3nos l	P2) - C	able S	plicing	and Tes	ting an	- 1
			L12(02	9)(3no	s P2) -	ODB 8	& XDB		on (3 r	
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	-+-+-+-		24+Au L12(028)	44			+ - + - + - +	ds Vehic nd termi		ks
			L12(028	(3nos l	P2) - C	able S	plicing	and Tes	ting an	
			L12(028	1111					1 1 17	11
			L12(02		())					
			L12(02	28)(3no	os P2) -	Kiosk	Equipn	nent Co	nfigura	
				g-17, L	ocatior	10 Sh	iuttle B	us Kiosk	\$ (006	) -
			⊨ L10(0	υ <u>ο)(4n</u> α	DS P2)	- Gable	e Gonta	ainment	in Kios	ĸs

Date	Revision	Checked	Approved
Nov-16	Rev.: 0	WC	LC
Mar-17	Rev.: 1.0a	WC	LC
1ay-17	Rev.: 1.0b	WC	LC

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/ ID	Activity Name				20	015			20	16			201	17			201	18		20	2019
					Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	C
Site Acce	ptance Test (Phase 2 / Section III)																				
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nt S	Submission (Phase 2 / Section III)																				

Programme No.: HZMB-DWP       Actual Level of Effort       summa         Data Date: 14-Aug-15       Primary Baseline       Actual Work         Remaining Work       Critical Remaining Work       Critical Remaining Work	^{ary} Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities - Automatic Vehicle Clearance Support System (AVCSS)	14-N 10-N 5-M
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Date	Revision	Checked	Approved
Nov-16	Rev.: 0	WC	LC
Mar-17	Rev.: 1.0a	WC	LC
lay-17	Rev.: 1.0b	WC	LC

g-Zhuhai-Macao Bridge Gantry Type X-Ray Vehicle Inspection Syst	dule Layout     18-Jan-       2016     2017       2018
	ec Jan F Mar Apr M Jun Jul Aug S Oct N Dec Jan F Mar Apr M Jun Jul Aug S Oct N Dec Jan F Mar Apr M Jun Jul Aug S Oct N Dec Jan F Mar Apr M Jun
14/04 Hong Kong-Zhuhai-Macao Brid	
2014/04.1 Contract No. HY/2014/04 Hong	
IY/2014/04.1.1.1 Contract Award	▼ 19-Jun-17, HY/2014/04.1.1.1 Contract Award
3 Letter of Acceptance	I Letter of Acceptance
4 Contract Signing	ContractSigning
HY/2014/04.1.1.1.1 Milestone	▼ 16-Dec-16, HY/2014/04.1.1.1.1 Milestone
HY/2014/04.1.1.1.1 Cost Centre B	Tetra MS B1 - Submission of Draft Detailed Design Documents,
<ul> <li>A1( MS B1 - Submission of Draft Detailed Design Do</li> <li>A1( MS B2 - Submission of Final Detailed Design Do</li> </ul>	AS B2 - Submission of Final Detailed Design Documents,
A1( MS B2 - Submission of Final Detailed Design Doi	<ul> <li>♦ MS B3 - Acceptance of Factory Acceptance Tests (FAT),</li> </ul>
Alt MS B3 - Acceptance of Pactory Acceptance rest     Alt MS B4 - Complete order and delivery on Site of a	<ul> <li>MS B3 - Acceptance of actory Acceptance rests (FAT),</li> <li>MS B4 - Complete order and delivery on Site of all equipment,</li> </ul>
A1( MS B5 - Acceptance of Integration Test	<ul> <li>♦ MS B5 - Acceptance of Integration Test,</li> </ul>
A10 MS B6 - Acceptance of Site Acceptance Test	<ul> <li>♦ MS B6 - Acceptance of Site Acceptance Test,</li> </ul>
Alt MS B7 - Acceptance of Operability Test	♦ MS B7 - Acceptance of Operability Test,
A1( MS B8 - Issue of Certificate of Completion for wc	♦ MS B8 - Issue of Certificate of Completion for works under Cost Centre B,
HY/2014/04.1.1.1.1.2 Cost Centre C	▼ 16-Dec-16, HY/2014/04.1.1.1.1.2 Cost Centre:C
A1( MS C1 - Submission of Draft Detailed Design Do	→ MS C1 - Submission of Draft Detailed Design Documents,
A11 MS C2 - Submission of Final Detailed Design Do	IS C2 - Submission of Final Detailed Design Documents,
A11 MS C3 - Acceptance of Factory Acceptance Tes	MS C3 - Acceptance of Factory Acceptance Tests (FAT),
A11 MS C4 - Complete order and delivery on Site of ε	MS C4 - Complete order and delivery on Site of all equipment,
A11 MS C5 - Acceptance of Integration Test	MS C5 - Acceptance of Integration Test,
A11 MS C6 - Acceptance of Site Acceptance Test	MS C6 - Acceptance of Site Acceptance Test,
A11 MS C7 - Acceptance of Operability Test	MS C7 - Acceptance of Operability Test,
A11 MS C8 - Issue of Certificate of Completion for wc	MS C8 - Issue of Certificate of Completion for works under Cost Centre B,
2014/04.1.1.1.3.5 Site Access	▼ 19-Jun-17, HY/2014/04.1.1.1.1.3.5 Site Access
IY/2014/04.1.1.1.1.3.5.1.3.5.1 Location 1 - Cargo Exa	▼ 19-Jun-17, HY/2014/04.1.1.1.1.3.5.1.3.5.1 Location 1 - 4
100 Inbound Cargo Exam Bldg - Degree 2 inspection	Inbound Cargo Exam Bldg - Degree 2 inspection complete, 30-Jan-17
102 Outbound Cargo Exam Bldg - Degree 1 inspection	Outbound Cargo Exam Bldg - Degree 1 inspection
103 Outbound Cargo Exam Bldg - Degree 1 inspectic	Outbound Cargo Exam Bidg - Degree 1 inspection complete, 03-Apr
104 Outbound Cargo Exam Bldg - Degree 2 inspection	Outbound Cargo Exam Bldg - Degree 2 inspection
105 Outbound Cargo Exam Bldg - Degree 2 inspectic	Outbound Cargo Exam Bldg - Degree 2 inspection comp
97 Inbound Cargo Exam Bldg - Degree 1 inspection	Inbound Cargo Exam Bldg - Degree 1 inspection
98 Inbound Cargo Exam Bldg - Degree 1 inspection	Inbound Cargo Exam Bldg - Degree 1 instruction complete, 013ep-10 A
<ul> <li>99 Inbound Cargo Exam Bldg - Degree 2 inspection</li> <li>HY/2014/04.1.1.1.3.5.1.3.5.3 Location 2 - X-ray Built</li> </ul>	▼ 02-Jan-17, HY/2014/04.1.1.1.1.3.5.1.3.5.3 Location 2 - X-ray Building
<ul> <li>107 Inbound X-Ray Bldg - Degree 2 inspection</li> </ul>	I Inbound X-Ray Bldg - Degree 2 inspection
108 Inbound X-Ray Bldg - Degree 2 inspection comp	Inbound K-Ray Bldg - □ egree 2 inspection complete, 02-Jan-17*
HY/2014/04.1.1.1.1.3.5.1.3.5.4 Location 3 - X-Ray Scar	27-Mar-17, HY/2014/04.1.1.1.1.3.5.1.3.5.4 Location 3 - X-Ray Scan
110 Inbound/Outbound X-Ray Scan Tunnel - Degree	Inbound/Dutbound X Ray Scan Tunnel - Degree 1 inspection
111 Inbound/Outbound X-Ray Scan Tunnel - Degree	Inbound/Dutbound X-Ray Scan Tunnel - Degree 1 inspection complete, 19-Jan-
112 Inbound/Outbound X-Ray Scan Tunnel - Degree	Inbound/Outbound X-Ray Scan Tunnel - Degree 2 inspection
113 Inbound X-Ray Scan Tunnel - Degree 2 inspectic	Inbound X Ray Scan Tunnel - Degree 2 inspection complete, 27-Mar-
14/04.1.1.3 Design, build, supply and install	The second secon
Commencement of design Works	Commencement of design Works, 31-Dec-15 A
/2014/04.1.1.3.1.3.2 Detailed Design Stage	V 31:Mar-17, HY/2014/04.1.1.3.1.3.2 Detailed Design Stage
30 Kick-off Meeting	Kick-off Meeting
31 Project Charter	Project Charter
32         Liaison with Building Contractors on civil provision	Liaison with Building Contractors on civil provisions required and submiss
■ 33 Interface and Coordination with interfacing contra	Interface and Coordination with interfacing contractor
<ul> <li>35 Presentation of the workflow and system design</li> <li>36 Preparation of AIP Submissions, including checki</li> </ul>	Presentation of the workflow and <b>system resign to interested parties</b> (C&ED, EMSD, HyD, etc.)
Preparation of AIP Submissions, including checki	Preparation of AIP Submissions, ho <mark>liter of the kin</mark> g by Independent Checking Engineer
vel of Effort	Page 1 of 8 TASK filter: All Activities

	Activity Name		2016
		⊧⊂ Jan F Mar Apr M	I Jun Jul Aug S Oct N Dec Jan F Mar Apr M
<b>—</b> 37	Submission of AIP Documents		Submission of AIP Documents
<b>3</b> 8	Comment by the Engineer		Comment by the Engineer
<b>3</b> 9	Preparation and Re-submission of AIP Documents		Preparation and Re-submission of PD cuments
<b>4</b> 0	Approval by the Engineer		⊐ Approval by the Engineer
<b>4</b> 1	AIP Complete		AIP Complete, 21-Jun-16 A
42	Development of man-machine interface (MMI) wi		Ueverprinent of ma
51	Detailed Design Stage Complete (MS B.1, C.1 - 2		Detailed Design Stage Sompers ( //S 1.1 C.1 - 22
	14/04.1.1.3.1.3.2.1.3.2.7 Detailed Design Approv		▼ 30 Nc 16 A, HY/2014/04.
44	Preparation of DDA Submissions		Preparation of DDA Submissions
45	Submission of DDA Documents (Part1)		I Submission of DDADocument. (Fart1)
46	Submission of DDA Documents (Part2)		Submission of DDA Documents Par 2), 30-Jun-1
47	Receive comment and approval of DDAs by the I		Receive comment and arcur val of DDAs by the
48	Provision to re-submit DDA volumes if required		Provision to re-supmt D DA volumes if rec
48	Approval of DDA volumes by the Engineer		Approval of DJAvctumes by the Engi
	DDA Complete (MS B.2, C.2 - 22 Oct 16)	· · · · · · · · · · · · · · · · · · ·	→ DC <b>XCor</b> ple (MS B.2, C
<b>5</b> 0	14/04.1.1.3.1.3.2.1.3.4 Interfaces		▼ 11 + 16 + 1/2014/04
91	interfaces for building 053 agreed		Intra in
	interfaces for building 053 agreed		· · · · · · · · · · · · · · · · · · ·
	interfaces for building 058 agreed		
<b>9</b> 3 <b>9</b> 4	interfaces for building 059 agreed	· ···· · · · · · · · · · · · · · · · ·	Internal est for building 00 of the second seco
	4.1.1.3.3 Procurement and Delivery		Generate BOM
<b>5</b> 3	Generate BOM	P Bro E	Release Long Lead Item BOM, (7-Ap -1) A
<b>5</b> 4	Pre-Release Long Lead Item BOM		
<b>5</b> 5	Release full BOM		Release full BOM
<b>5</b> 6	Procurement of Long Lead Items (Tungsten)		Procurement of Lor g lec l ems (Tungsten)
<b>5</b> 7	Procurement of Electrical Components		Procurement of Electrical Composer s
58	Procurement of Gantry fabrications 1		Procurement of Gantry fabrications f
<b>5</b> 9	Procurement of Gantry Fabrications 2		Procurement of Gantr/Fabr cations 2
60	Procure balance of BOM		
<b>8</b> 9	Procurement and Delivery Complete (MS B.4 27,		Proc
the second se	04.1.1.3.3.1.2 Local contract commencement v		▼ 14 Note 5., H /2014/04.1.
	14/04.1.1.3.3.1.2.1.2.1 Procurement of uniform		♦ Approval for uniform design 2.0-J -18 A
	Approval for uniform design		
	Procurement of uniforms	· · · · · · · · · · · · · · · · · · ·	· ; · · · · ; · · · · ; · · · · ; <del>· · · · </del>
9	Issue uniform to staff		
HY/20	14/04.1.1.3.3.1.2.1.2.2 Procurement of car		T 14 Nolf 5, HI 12.14/04.1. App ovation at spenificication
T1	Approval for car specificications		
	lead time for car preperation Delivery of car		leati <b>nte carprece</b> ration ►I Deivery : var
	14/04.1.1.3.3.1.2.1.2.3 Procurement of Docume		▼
<b>HY/20</b>	Approval for specifications of Document Manage		<ul> <li>Approval for specific tions of Locument</li> </ul>
	Procurement and delivery		
	Scope Document management System		
			✓ Scope 20 the fit management ✓ 22-Oct-167, H //2014.04.1.1.3.3
HY/20	14/04.1.1.3.3.1.2.1.2.4 WA 4 Activities Site Survey With Contractor for WA4 deliverables		Site Survey With Cont ad to 1 W/4 de iverable
			Submission and ap rova of net pd statemen
20	Submission and approval of method statement		Application for permitteen Environmental
	Application for permit from Environemental Prote		
	Procurement and delivery of WA4 Fencing		Procurement and delivery of WAs Fencing
23	Install WA4 Fencing		
24	Procurement activity for WA4 Concrete/Tarmac		Procurement activity of WA-Cincrete/Ta
25	Lay WA4 Concrete/Tarmac		Lay WA4 Concrete Tarmac
Actual Level	of Effort Remaining Work	Page 2 of 8	TASK filter: All Activities

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Kong-Zhuhai-Mac	cao Bridge Gantry Type X-Ray Vehicle Inspection System	Classic Schedule Layout 18-Jan-1
)	Activity Name	2016 2017 2018
		ec Jan F Mar Apr M Jun Jul Aug S Oct N Dec Jan F Mar Apr M Jun Jul Aug S Oct N Dec Jan F Mar Apr M Jun Jul Aug S Oct N Dec Jan F Mar Apr M Jun
	Commencement of WA4 Weekly checks and ma	Comment Brief of VA I Weekly checks and maintainance, 17-Oct-16 A
and the second s	04.1.1.3.3.1.3.3.9 X-ray System Equipment	
	14/04.1.1.3.3.1.3.3.9.1.3.3.9.1 Manufacturing for	T 1-Feb-17, HY/2014/04.1.1.3.3.1.3.3.9.1.3.3.9.1 Manufacturing for X-ray Sy
<b>a</b> 63	Regular Site & Facility Inspection for Gantry Insta	Regular Site & Facility Inspection for Gantry Installation preparation
<b>—</b> 64	Submission of samples	<b>And And And And And And And And And And </b>
<b>—</b> 65	Approval of samples	<b>the second second</b>
📰 66	Manufacturing, software design, coding and testing	▶ ► ► ► ► ► ► ► ► ► ► ► ► ► ► ► ► ► ► ►
HY/20 [/]	14/04.1.1.3.3.1.3.3.9.1.3.3.9.2 Factory Acceptan	v v 44 Feb-17, HY 2014/04.1.1.3.3.1.3.3.9.1.3.3.9.2 Factory Acceptance Test
68	Assemble and Test System (Pre-FAT)	r Heard Fest System (Pre-FAT)
🔲 🗐	Submission of FAT Plan	🗧 Submission 5 🖬 T Flan
🔲 69.5	5 Approval of FAT Plan	i i i i i i i i i i i i i i i i i i i
<b>—</b> 70	FAT at Stoke	A [™] at Stoke
- 71	Submission of complete set of sample and assor	But mission of complete set of sample and associated supporting structure
<b>—</b> 72	Submission of radiation source with protective er	Submission of radiation source with protective enclosure to Government
<b>—</b> 72	Submission and acceptance of FAT Report	Submission and acceptance of FAT Report
	· · · · · · · · · · · · · · · · · · ·	A Complete (MS B.3, C.3 - 7 Dec 16),
	14/04.1.1.3.3.1.3.3.9.1.3.3.9.3 Delivery of X-ray S	21-Ap -17, HY/2014/04.1.1.3.3.9.1.3.3.9.3 Delivery of X-ray
		v 21-Ap-17, 1172014/04.111.3.3.1.3.3.5.5.5 Delively of X-ray
	··· · · ·	A range ship bing, Packing
	Arrange shipping, Packing	
<b>—</b> 78	Shipping (via sea) and import clearance declaration	Shipping (via sea) and import clearance declaration
<b>—</b> 79	Submission of List of Hazardous Materials	Submission of List of Hazardous Materials
<u> </u>	Delivery/Arrival of accessories (rail, intercom,PA,	Delivery/Arrival of accessories (rail, intercom,PA, Speakers,CCTV,power and
<b>a</b> 81	Delivery of Gantry Type X-Ray Vehicle Inspectior	Delive y of Gantry Type X-Ray Vehicle Inspection System Comple
	04.1.1.3.3.1.3.3.10 Radiation Shielding Doors a	v v 11-ieb-17, HY/2014/04.1.1.3.3.1.3.3.10 Radiation Shielding Doors and Ot
<b>a</b> 83	Subission of proposed RSE	Sudission of proposed R SE
<b>a</b> 84	Structural calculation of sliding doors for submise	Structura cateulition calls in gloors for submission to TPIDC for approval
<b>=</b> 85	Approval by the Engineer and TPIDC	
<b>=</b> 86	Manufacturing of Doors	→ → → → → → → → → → → → → → → → → → →
<b>—</b> 87	Delivery of Radiation Shielding Doors to HK site	Pelvery of Radiation Shielding Doors to HK site
<b>=</b> 88	Delivery of other Auxiliary Systems and Equipmer	►
🔲 A1000	Complete delivery of Radiation Shielding Doors to	A site, Site Site Site Site Site Site Site Site
HY/2014/04	4.1.1.3.6 Section I - Gantry Type X-ray Vehic	30-Jun-17, HY/2014/04.1.1.3.6 Section I - Gantry Type
212	Software Setup & Integration and Imaging Tests	🛛 🛄 🚺 🚺 👘 🗖 Software Setup & Integration and Imaging Tests
213	Construction Works - Section I Complete	Construction Works - Section I Complete, 16-May-17 ▼ 30-Jun+17, HY/2014/04.1.1.3.6.1.3.8.1 Inbound Cargo
	04.1.1.3.6.1.3.8.1 Inbound Cargo Examination I	30-Jun-17, HY/2014/04.1.1.3.6.1.3.8.1 Inbound Cargo
<b>—</b> 315	Cabling and cable containment	Cabling and cable containment
<b>3</b> 16	Installation of X-ray System Image Analysis Work	- It-installation of X-ray System Image Analysis Workstations, UPS for w
<b>3</b> 310	Temporary Installation of X-ray System Image Analysis Work	I removal a statistic of the advance of the adv
<b>3</b> 317	Dismantle of the temporary setup of System Image All	Dismantle of the temporary setup of System Image Analysis
	04.1.1.3.6.1.3.6.1 Scan Tunnel	Distriance of the temporary setup of System image Ana 1 Distriance of the temporary setup of System image Ana 1 Distriance of the temporary setup of System image Ana
HY/2014/	Cabling and cable containment	Caving and cable containment
		Scen Tunnel Installation Complete, 09-May-17
140	Scan Tunnel Installation Complete	
	14/04.1.1.3.6.1.3.6.1.1.3.6.1.2 Installation of X-ra	08-//ay-17, HY/2014/04.1.1.3.6.1.3.6.1.1.3.6.1.2 Installation of
	Install Gantry rails	ns all Gantry mils
	Linear Accelerator Pod and Modular Pod	Linear Accelerator Pod and Modular Pod
<u> </u>		Verit al Boom Wheel Set and Vertical Boom
	Horizontal Boom	Homontal Boom
	Radioactivity threat detection system	Radioactivity threat detection system
	14/04.1.1.3.6.1.3.6.1.1.3.6.1.3 Radiation Shieldin	▼ ▼ 21-Mar-17, HY/2014/04.1.1.3.6.1.3.6.1.3 Radiation Shielding S
🔲 🥅 124	Unloading and storage of of Materials on site	In pading and storage of of Materials on site
🔲 🔲 125	Installation of brackets and Hilti bolts	Installation of trackets and Hilti bolts
🔲 🥅 126	Installation of beam	Installation of beam
	of Effort Remaining Work $\blacklozenge \blacklozenge$ Milestone	Page 3 of 8 TASK filter: All Activities
<ul> <li>Actual Level of</li> </ul>		

huhai-Macao Bridge Gantry Type X-Ray Vehicle Inspection System	Classic Schedule Layout     2016     2017	18-Jan-17 10 2018
	ec Jan F Mar Apr M Jun Jul Aug S Oct N Dec Jan F Mar Apr M Jun Jul Aug S Oct N Dec Jan F Mar Ap	pr M Jun Jul /
127 Installation of door box	<b>in the stallation of door box</b>	
128 Testing & commissioning	Testing 8 commissioning	
HY/2014/04.1.1.3.6.1.3.6.1.1.3.6.1.4 Installation of oth	<b>▼■</b> ▼ 12-Api 7, HY/2014/04.1.1.3.6.1.3.6.1.1.3.6.1.4 Installa	ation of other Aux
130         PTZ CCTV camera (indoor type)	PTZ CCTY camera (indoor type)	
131 PTZ CCTV camera (outdoor type)	PTZ CCT / camera (outdoor type)	
132 Humidity Sensor	Humidity Sensor	
133 CCTV Control System	E E E E E E E E E E E E E E E E E E E	
134 Drop arm barrier, stop/go light and connection to	Drop arm barrier, stop/go light and connection to x-ray co	ontrol system
135 Perimeter Alarm System and connection to the x-	Perimeter Alarm System and connection to the x-ray con	ntrol system
136 Infra-red over-height detection portal and connect	Infra-real over-height detection portal and connection to	x-ray control sy
137 Control, monitoring and alarms of infra-red over-	Control monitoring and alarms of infra-red over-height c	detection system
138 Personal X-ray Dosimeter	Personal X-ray Dosimeter	
139 UPS for workstations, equipment and system	₩ PS fcr workstations, equipment and system	
HY/2014/04.1.1.3.6.1.3.6.2 X-ray Building	24-A <mark>0</mark> -17, HY/2014/04.1.1.3.6.1.3.6.2 X-ray Building	j i i i i
211 X-ray Building Installation Complete	X-ray Building Installation Complete, 24-Apr-17	
HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.1 Cabling and cable	<b>11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1</b>	le containment
143 Entry Kiosk	i i i i i i i i i i i i i i i i i i i	
144 Control Room	🛱 is control 5 poin	
145 Exit Kiosk		
<ul> <li>146 Image Interpretation Room</li> </ul>	and the second	
147 X-ray Examination System Operation Room	X-ray Examination System Operation Room	
	Driver's Waiting Proom	
148 Driver's Waiting Room		
149 Training Room		
150 Cabling and cable containment complete	<b>H</b> Cablin pland cable containment complete, 02-Feb-17	
HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2 Equipment Install	21-Ap -17, HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2 Equip	
HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.1 Entry	▼ 21-Ap -17, HY/2014/04.1.1.3.6.1.3.6.2;2.1.3.6.	.2.2.1 Entry KIO
X-ray System Image Analysis Workstation	X-ray System Image Analysis Workstation	
CCTV System		
intercom System	Intercom System	
Yublic Address System	Public Address System	
Yerimeter Alarm System	Peri <mark>na</mark> ter Alarm System	
Kadiation Monitoring and Alarm System	Rađa <mark>n</mark> Rađan System	
Over Height Detection System alarm	Over teight Detection System alarm	
Drop Arm Barrirer controller	Drop rm Barrirer controller	
Radiation shielding sliding door controller	Radiation shielding sliding door controller	
UPS for workstations, equipment and system	UPS for workstations, equipment and system	
Speaker		
HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.2 Cont	▼ 21-Ar -17, HY/2014/04.1.1.3.6.1.3.6.2.2.1.3.6.2	222 Control R
<ul> <li>Video Wall (4nos. 55" LED)</li> </ul>	Video Wall (4hos. 55" LED)	
	UPS for workstations, equipment and system	
Yublic Address System	Public Address System	
í Intercom System	Intercom System	
Radiation Monitoring and Alarm System	Radiat on Monitoring and Alarm System	
Perimeter Alarm system	Peri <mark>na</mark> ter Alarm system	
Wall-mounted Display Unit of Humidity Sensor	Wall- <b>m</b> ounted Display Unit of Humidity Sensor	
Over Height Detection System alarm	Over leight Detection System alarm	
Drop Arm Barrier controller	Drop <mark>u</mark> rm Barrier controller	
Kadiation shielding sliding door controller	Radiation shielding sliding door controller	
X-ray System Control Workstation	X-ray System Control Workstation	
Scanner		
ual Level of Effort	Page 4 of 8 TASK filter: All Activities	

	ao Bridge Gantry Type X-Ray Vehicle Inspection System	Classic Schedule Layout         18           2016         2017         2018
		ec Jan F Mar Apr M Jun Jul Aug S Oct N Dec Jan F Mar Apr M Jun Jul Aug S Oct N Dec Jan F Mar Apr M J
	Printer	
💾 HY/2	2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.3 Exit k	▼ 21-A <mark>c</mark> -17, HY/2014/04.1.1.3.6.1.3.6.2.2.1.3.6.2.2.3 E
	Intercom System	Intercom System
	Radiation Monitoring and Alarm System	Radial on Monitoring and Alarm System
	X-ray System Image Analysis Workstation	Y-ray System Image Analysis Workstation
	Radiation shielding sliding door controller	Radiation shielding sliding door controller
	CCTV System	CCTU System
	Public Address System	Public Address System
	UPS for workstations, equipment and system	UPS for workstations, equipment and system
💾 HY/2	2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.4 Imag	T 21-Åp -17, HY/2014/04.1.1.3.6.1.3.6.2.2.1.3.6.2.2.4 jm
	Intercom System	Intercom System
	Radiation Monitoring and Alarm System	Radiation Monitoring and Alarm Şystem
	X-ray System Image Analysis Workstation	X-ray System Image Analysis Workstation
	Printer	
	UPS for workstations, equipment and system	UPS for workstations, equipment and system
	2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.5 X-ray	▼ 21-Ap-17, HY/2014/04.1.1.3.6.1.3.6.2.2.1.3.6.2.2.5 X-
	Server	Server
	Server rack	Server rack
	UPS for workstations, equipment and system	UPS for workstations, equipment and system
	2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.6 Drive	▼ 21-Ag - 17, HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.6 D
	CCTV System	CCTV System
	Intercom System	Intercom System
	Radiation Monitoring and Alarm System	Radiation Monitoring and Alarm System
	UPS for workstations, equipment and system	UPS for workstations, equipment and system
	2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.7 Train	₩ 28- eb-17, HV/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.7 Training ro
	Projector screen (Screen size 106")	Projector screen (Screen size 106")
	Ceilling mounted projector	Cei ng mounted projector
	X-ray System Training Workstation	<b>X-lay</b> System Training Workstation
	Radiation Monitoring and Alarm System	Radiation Montoring and Alarm System
	UPS for workstations, equipment and system	UFS for works ations, equipment and system
	Training aids	
	Printer	Printer
	I.1.3.7 Section II - Gantry Type X-ray Vehi	tries 17-May-17, HY/2014/04.1.1.3.7 Section II - Gantry Type X
		So tware Setup & Integration and Imaging Tests
<b>311</b>	Software Setup & Integration and Imaging Tests Construction Works - Section II Complete	• Construction Works - Section II Complete, 17-May-17
312	·	y = 10. May-17, HY/2014/04.1.1.3.7.1.3.7.1 Scan Tunnel
	04.1.1.3.7.1.3.7.1 Scan Tunnel Cabling and cable containment	Cabing and cable containment
	Scan Tunnel Installation Complete	Sgen Tunnel Installation Complete, 10-May-17
		▼ •••••▼ 08.1/lay-17; HY/2014/04.1.1.3;7.1.3.7.1.2; Installation
	4/04.1.1.3.7.1.3.7.1.1.3.7.1.2 Installation of X-ra Gantry rails	
	Linear Accelerator Pod and Modular Pod	Line: r Accelerator Pod and Modular Pod
		Vertical Boom Wheel Set and Vertical Boom
	Vertical Boom Wheel Set and Vertical Boom	
	Horizontal Boom	
	Radioactivity threat detection system	Radioactivity threat detection system
	4/04.1.1.3.7.1.3.7.1.3.7.1.3 Radiation Shieldin	1-17, HY/2014/04.1.1.3.7.1.3.7.1.3.7.1.3 Radiation Shi
	Installation of brackets and Hilti bolts	
	Installation of beam	Installation of beam
	Installation of door box	
	Testing & commissioning	Testing & commissioning
	4/04.1.1.3.7.1.3.7.1.1.3.7.1.4 Installation of Aux	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩
229	PTZ CCTV camera (indoor type)	TZ CCTV camera (indoor type)

vity ID		ao Bridge Gantry Type X-Ray Vehicle Inspection Sys		Classic Schedule Layout	18-Jan-17 2017 2018
ty ID				c Jan F Mar Apr M Jun Jul Aug	
	<b>a</b> 230	PTZ CCTV camera (outdoor type)			PTZ CTV camera (outdoor type)
	<b>a</b> 231	Humidity Sensor			Hum <mark>d</mark> ity Sénsor
	232	CCTV Control System			CCT/ Conrol System
	233	Drop arm barrier, stop/go light and connection to			Dop arm parrier, stop/go light and connection to x-ray control system
					Perimener Alarm System and connection to the x-ray control system
		· · · · · · · · · · · · · · · · · · ·			Infrared over-height detection portal and connection to x-ray contro
		Control, monitoring and alarms of infra-red over-			Control, monitoring and alarms of infra-red over-height detection sy
		Personal X-ray Dosimeter			Personal X-ray Dosimeter
		UPS for workstations, equipment and system			UPS for workstations, equipment and system
		4.1.1.3.7.1.3.7.2 X-ray Building			<b>1 25</b> -Apr-17, HY/2014/04.1.1.3.7.1.3.7.2 X-ray Building
		X-ray Building Installation Complete			X-ra, Building Installation Complete, 25-Apr-17
		4/04.1.1.3.7.1.3.7.2.1.3.7.2.1 Cabling and cable			<b>17</b> -Feb-17, HYC014/04.1.1.3.7.1.3.7.2.1.3.7.2.1 Cabling and cable containme
		Cabling and cable containment - Entry Kiosk			Cabling and cable containment - Entry Kiosk
		Cabling and cable containment - Control Room			Cabling and cable containment - Control Room
		Cabling and cable containment - Exit Kiosk			Cabling and cable containment - Exit Kiosk
					Cabling and cable containment - Image Interpretation Room
		Cabling and cable containment - X-ray Examinati			Gabing and cape containment - X-ray Examination System Operation Room
					Cabing and cape containment - Driver's Waiting Room
		Cabling and cable containment - Driver's Waiting			
					Cabling and cabe containment - Training Room
		Cabling and cable containment complete			<b>Gabin</b> g and cabe containment complete,
		4/04.1.1.3.7.1.3.7.2.1.3.7.2.2 Equipment Install:			24-Apr-17, HY/2014/04.1.1:3.7.1.3.7.2.1.3.7.2.2 Equipment:Installat
		2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.1 Entry			<b>1</b> 31 Mar- <b>17</b> , HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.1 Entry Kiosk
		X-ray System Image Analysis Workstation			X-ray System Image Analysis Workstation
		CCTV System			CCTV Sestem
	<b>•</b> 1	Intercom System			
	🔲 🗐 🕹	Public Address System			Public Add ress System
	🗖 🗖 🗖	Perimeter Alarm System			Pe <mark>rimeter</mark> Alarm System
	🔲 🖬 🕯	Radiation Monitoring and Alarm System			Radiation Monitoring and Alarm System
	🗖 🗖 🗖	Over Height Detection System alarm			►1 Over Heicht Detection System alarm
	🔲 🖬 🕹	Drop Arm Barrirer controller			E E E E E E E E E E E E E E E E E E E
	🔲 🗐 🕹	Radiation shielding sliding door controller			Radiation shielding sliding door controller
	<b>a</b> 1	UPS for workstations, equipment and system			UPS for workstations, equipment and system
		Speaker			Speaker
		2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.2 Cont			03-Apr-17, HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.2 Control Ro
		Video Wall (4nos. 55" LED)			Video Will (4nos. 55" LED)
		UPS for workstations, equipment and system			UPS for workstations, equipment and system
		CCTV System			CCTV Sustem
		Public Address System			Public Address System
		Intercom System			
		Radiation Monitoring and Alarm System			Radiation Monitoring and Alarm System
			-		Perimeta Alarm system
		Perimeter Alarm system			na na sa ang 🚺 📔 na 🚺 🖬 🚺 📕 👘 na sa 🚺 na sa 🖓 na sa
		Wall-mounted Display Unit of Humidity Sensor			Wall-mounted Display Unit of Humidity Sensor
		Over Height Detection System alarm			• I Over Height Detection System alarm
		Drop Arm Barrier controller			Drop Arr Barrier controller
		Radiation shielding sliding door controller			Radiation shielding sliding door controller
		X-ray System Control Workstation			X-ray System Control Workstation
		Scanner			Scanner Scanner
	🔲 🖬 🕹	Printer			Printer
	💾 HY/2	2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.3 Exit 🖡			03-Apr-17, HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.3 Exit Kiosk
	🔲 í	Intercom System			Intercom System
	🔲 í	Radiation Monitoring and Alarm System			Radiation Monitoring and Alarm System
			· · · · · · · · · · · · · · · · · · ·		
		f Effort Remaining Work	♦♦ Milestone	Page 6 of 8	TASK filter: All Activities

ng-Zhuhai-Macao Bridge Gantry Type X-Ray Vehicle Inspection System	Classic Schedule Layout 18-Jan-17 1
Activity Name	2016         2017         2018           c Jan         F         Mar         Apr         M         Jun         Jul         Aug         S         Oct         N         Dec         Jan         F         Mar         Apr         M         Jun         Jul         Aug         S         Oct         N         Dec         Jan         F         Mar         Apr         M         Jun         Jul         Jul         Aug         S         Oct         N         Dec         Jun         Jul         Jun         Jul         Jun         Jul         Jul         Jun         Jul         Jul
📕 🖕 💈 X-ray System Image Analysis Workstation	→ X-ray System Image Analysis Workstation
🗧 🧮 💈 Radiation shielding sliding door controller	Radiation shielding sliding door controller
CCTV System	CCTV Sistem
🔲 🗯 Public Address System	Public Address System
□ ∠ UPS for workstations, equipment and system	UPS for workstations, equipment and system
HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.4 Imag	24-A <mark>or</mark> -17, HY/2014/04.1.1;3.7.1.3.7;2.1.3.7.2.2.1.3.7.2.2.4 Image I
🔲 🕻 Intercom System	Intercom System
Cadiation Monitoring and Alarm System	Radia ion Monitoring and Alarm System
🔲 🗧 💈 X-ray System Image Analysis Workstation	X-ray <mark>s</mark> ystem Image Analysis Workstation
🚍 💈 Printer	
UPS for workstations, equipment and system	UPS for workstations, equipment and system
HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.5 X-ray	▼ 27-Mar-17, HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.5 X-ray Exam
Server	t Server
🚍 💈 Server rack	→i Seiver rack
UPS for workstations, equipment and system	UPS for workstations, equipment and system
HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.6 Drive	03-Apr-17, HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.6 Driver's W
CCTV System	
🔲 🖸 Intercom System	Intercor System
🔲 🗧 💈 Radiation Monitoring and Alarm System	Radiation Monitoring and Alarm System
🔲 🤇 Speaker	→∎ Speaker
UPS for workstations, equipment and system	→ UPS for workstations, equipment and system
HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.7 Train	03-Apr-17, HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.7 Training ro
🔲 🤇 Projector screen (Screen size 106")	Projector s creen (Screen size 106")
Ceilling mounted projector	→ Celling munted projector
X-ray System Training Workstation	→ X-ray System Training Workstation
Carl Alarm System	Radiation Monitoring and Alarm System
UPS for workstations, equipment and system	←1 UPS for workstations, equipment and system
Training aids	t Training a ds
□ C Printer	
HY/2014/04.1.1.3.8 Section III - Cargo Examination Bu	04-Jul-17, HY/2014/04.1.1.3.8 Section III - Cargo Exam
322 Construction Works - Section III Complete	Construction Works - Section III Complete,
HY/2014/04.1.1.3.8.1.3.8.2 Outbound Cargo Examination	04-Jul-17, HY/2014/04.1.1.3.8.1.3.8.2 Outbound Cargo
320 Cabling and cable containment	Cabling and cable containment
321 Installation of X-ray System Image Analysis Work	Installation of X-ray System Image Analysis Workstation
HY/2014/04.1.1.3.9 On-Site Testing & Commissioning	
335 Operability Test	Operability Test
336 T&C Complete and Issurance of Certificate of Ac	T&C Complete and Issurance of Certificate of Acce
345 Contruction Works Complete	Contruction Works Complete, 05-Sep-17
HY/2014/04.1.1.3.9.1.3.10 Defect Liability Period for Con	
359 Defect Liability Period	
360 Submission of Warranty Completion Test Plan	Submission of Warranty Completion Test Plan
361 Warranty Completion Test	
362 DLP Complete and issuance of Defect Laibility C	
363 Commencement of Maintenance Services	
HY/2014/04.1.1.3.9.1.3.9.1 Integration Test	<b>v</b> 16 Jun-17, HY/2014/04;1.1.3.9.1;3.9.1 Integration Test
325 Submission of Integration Test Plan	Submission of Integration Test Plan
326 Integration Test	→ I→hregration Test
327 Preparation, submission and acceptance of Integ	Preparation, submission and acceptance of Integration Tes
327.5 Complete Inegration Test (MS B.5 - 3 Mar 17)	Compl <mark>e</mark> te In egration Test (MS B.5 - 3 Mar 17),
HY/2014/04.1.1.3.9.1.3.9.2 Site Acceptance Test	
329 Submission of SAT Plan	Submission of SAT Plan
[	
Actual Level of Effort Remaining Work	
-	Page 7 of 8 TASK filter: All Activities
Actual Work Critical Remaining Work 🕶 summary	© Oracle Corp

-	Activity Name	 2016				
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330	Deployment of SAT Independent Competent Advi				Ļ	
<b>a</b> 331	Submission of complete set of sample and assoc				÷	
332	Submission of radiation source with protective er				ļ	
<b>—</b> 333	SAT carried out by an Independent Competent A					
334	Preparation, submission and acceptance of SAT		1			-
334.5	· · ·					
	/04.1.1.3.9.1.3.9.5 Training					
<b>—</b> 338	Submission of Training Syllabus for approval				ļ	
<b>—</b> 339	Liaison with Engineer to confirm training schedule					
<b>—</b> 340	Operator Training					
<b>—</b> 341	Trainer training					
342	Preventive maintenance training					
<b>—</b> 343	Comprehensive maintenance training					
<b>—</b> 344	Training Complete					
HY/2014	04.1.1.3.9.1.3.9.7 Other Documentation			ł	ł	
<b>—</b> 347	Submission of WR1/WR1 (A) for all electrical ins				ł	
<b>—</b> 348	Submission of draft O&M Manuals, Driver's Hand				1	
<b>—</b> 349	Submission of finalized O&M Manuals, Driver's H				÷	
<b>—</b> 350	Submission of CD-ROM/DVD-ROM of O&M Mar					:
<b>—</b> 351	Submission of As-built Drawings			1	i.	
352	Submission of Spare Parts and Special Tools Re					
<b>—</b> 353	Submission of Operator's Operating Instructions				ľ	
<b>—</b> 354	Submission of System Operation Instructions				ł	
🔲 355	Submission of Software Manuals and Instruction					
<b>—</b> 356	Submission of Equipment and Hardware Mainter			÷	÷	
<b>—</b> 357	Submission of Software License Installation Disk				÷	

Actual Level of Effort Remaining Work	♦ ♦ Milestone	Page 8 of 8	TASK filter: All Activities
Actual Work Critical Remaining Work	summary		

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# **APPENDIX D**

**Event and Action Plan** 



## Event/Action Plan for Air Quality

	EVENT		ACTI	ON	
		ET	IEC	ER	CONTRACTOR
	CTION LEVEL			1	
1.	Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform IEC and ER;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ol>	1. Notify Contractor.	<ol> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol>
2.	Exceedance for two or more consecutive samples	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurement s to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Submit proposals for remedial to ER within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>

	EVENT		ACTIO	ON	
		ET	IEC	ER	CONTRACTOR
LI	MIT LEVEL				
1.	Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform ER, Contractor and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>
2.	Exceedance for two or more consecutive samples	<ol> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Ensure remedial measures properly implemented;</li> <li>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.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problem still not under control;</li> <li>Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol>

EVENT		ACTION		
	ET	IEC	ER	CONTRACTOR
	<ol> <li>Notify IEC and Contractor;</li> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Report the results of investigation to the IEC, ER and Contractor;</li> <li>Discuss with the Contractor and formulate remedial measures;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>		notification of failure in writing; 2. Notify Contractor;	<ol> <li>Submit noise mitigation proposals to IEC;</li> <li>Implement noise mitigation proposals.</li> </ol>
Limit Level	<ol> <li>Inform IEC, ER, EPD and Contractor;</li> <li>Identify source;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Inform IEC, ER and EPD the causes and actions taken for the exceedances;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>Ensure remedial measures properly implemented;</li> <li>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.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problem still not under control;</li> <li>Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol>



# **APPENDIX E**

Waste Flow Table



Name of Department: Highways Department

### Contract No.: HY/2014/05

工LEIGHTON 🐫 燈 秒。

Leighton - Chun Wo Joint Venture

### Monthly Summary Waste Flow Table for 2017

	Actua	al Quantities	of Inert C&D	) Materials G	enerated Mo	onthly	Actual C	Quantities of	C&D Wastes	Generated	Monthly
Month	a.Total Quantity Generated (see Note 8)	b. Hard Rock and Large Broken Concrete (see Note 9)	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill (see Note 10)	f. Imported Fill	g. Metals (see Note 5)	h. Paper / Cardboard Packaging (see Note 5)	i. Plastics (see Note 3) (see Note 5)	j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m ³ )	(in '000m ³ )	(in '000m ³ )	(in '000m ³ )	(in '000m ³ )	(in '000m ³ )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³ )
January	1.390	0.010	1.380	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.197
February	1.070	0.003	1.067	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.143
March	0.266	0.202	0.064	0.000	0.202	0.000	5.840	0.000	0.000	0.000	0.269
April	0.249	0.013	0.236	0.000	0.013	0.000	0.000	0.000	0.000	0.000	0.220
May	0.132	0.132	0.000	0.000	0.132	0.000	0.000	0.000	0.000	0.000	0.421
June	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.392
Sub-total	3.107	0.360	2.747	0.000	0.360	0.000	5.840	0.000	0.000	0.000	1.642
July	0.076	0.007	0.069	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.403
August	0.010	0.010	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.405
September	0.071	0.071	0.000	0.000	0.071	0.000	0.000	0.000	0.000	0.000	0.465
October											
November											
December											
Total	3.264	0.448	2.816	0.000	0.448	0.000	5.840	0.000	0.000	0.000	2.915

Total C&D waste generated = a+b+f+g+h+i+j+k

Total C&D waste generated (excluded excavated material) = g+h+i+j+k

Total C&D waste recycled = c+d+g+h+i

% of recycled C&D waste = (Total C&D waste generated - Total C&D waste recycled) / Total C&D waste generated

#### Name of Department: Highways Department

### Contract No.: HY/2014/05

	Forecast of Total Quantities of C&D Materials to be Generated from the Contract*												
a.Total Quantity Generated (see Note 8)	b. Hard Rock and Large Broken Concrete (see Note 9)	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill (see Note 10)	f. Imported Fill	g. Metals (see Note 5)	h. Paper / Cardboard Packaging (see Note 5)	i. Plastics (see Note 3) (see Note 5)	j. Chemical Waste	k. Others, e.g. general refuse			
(in '000m ³ )	(in '000m ³ )	(in '000m ³ )	(in '000m ³ )	(in '000m ³ )	(in '000m ³ )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³ )			

Notes: (1) The performance target are given in PS Clause 6(14)

- (2) The waste flow table shall also include C&D materials that are not specified in the Contract to be imported for use at the Site
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (4) The Contractor shall also submit the latest forecast of the amount of C&D materials expected to be generated from the Works, together with a break down of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m³.
- (5) All recyclable materials, including metals, paper / cardboard packaging, plastics, etc. will be collected by registered collector for recycling.
- (6) Conversion factors for reporting purpose:
  - in-situ: rock = 2.5 tonnes/m³; soil = 2.0 tonnes/m³
  - excavated: rock = 2.0 tonnes/m³; soil = 1.8 tonnes/m³; broken concrete and bitumen = 2.4 tonnes/m³
  - C&D Waste = 0.9 tonnes/m³; bentonite slurry = 2.8 tonnes/m³
- (7) Numbers are rounded off to the nearest three decimal places
- (8) The "Total Quantity Generated" equals to the sum of "Reuse in the Contract", "Reuse in Other Projects" and "Disposed as Public Fill"
- (9) The "Hard Rock and Large Broken Concrete" were disposed as public fill
- (10) The amount in "Disposed as Public Fill" included the "Hard Rock and Large Broken Concrete" disposed as public fill



#### Monthly Summary Waste Flow Table for 2017

			&D Waste c (in tonnes) (				disp 非堕h	Non-inert C&D Waste disposal 非墮性廢物 (in tonnes)										
Month	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.) 墮性廢物 (如泥, 石矢頭, 石, 填料等)		Others (e.g. general refuse, broken formwork etc) 其他 (如垃圾, 廢板枋等)		-	tals 屬	Plastic 塑膠		Paper/cardboard packaging 廢紙/包裝紙類		Chemical Waste 化學廢物		Total Quantity Generated 總生產量	
	(1	<b>)</b>	(0	c)	(0	d)	(	e)	(in to	nnes)	(in to	nnes)	(in to	nnes)	(in l	litre)	(a)= (b-	+c+d+e)
	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	0.002	0.002	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	0.002	0.002	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	0.002	0.002	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	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
Мау	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
June	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
July	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
August	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
September	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
October																		
November																		
December																		
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.000	0.004	0.004	0.000	0.000	0.015	0.015

Notes: (1) The quantitles 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.



Gantry Type X-ray Vehicle Inspection System

## Highways Department Monthly Summary of Waste Flow Table in 2017

	Actua	l Quantities of	of Inert C&D	Materials G	enerated / In	nported	Actual Quan	tities of Othe	er C&D Mate	erials / Wast	es Generated
	Total	Rocks and	Reused in	Reused in	Disposed			Paper/Card-			Others. e.g.
Month	Quantity	Large	the	other	as Public	Imported	Metals	board	Plastic	Chemical	general
	Generated	Broken	Contract	Projects	Fill	Fill		packaging		Waste	refuse,
	2	Conorata	2	2	2	2					plastic
	(in '000m ³ )	(in '000m ³ )	$(in '000m^3)$	$(in '000m^3)$	(in '000m ³ )	$(in '000m^3)$	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
Jan-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Feb-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mar-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Apr-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.6100
May-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.8000
Jun-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5.0700
Half-year											
total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.4800
Jul-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	14.3700
Aug-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Sep-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.5100
Oct-17											
Nov-17											
Dec-17											
Yearly Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	23.3600



# **APPENDIX F**

**Environmental Licenses and Permits** 



Environmental License/ Permits /Notification Register

**Buildings and Facilities** 

							Date: Augus	t 2017	
Item	Pei	rmit/License o Applica	r Registration ation	Permit/License/ Notification/	Permit/License/ Registration	Issue/Start	Expiry	Issuing Office	Remark
No.	Work Area	Date	Reference	Registration Description	Number	Date	Date		
1	All Areas	30 Jun 2015	N/A	Environmental Permit for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities	EP-353/2009/I	17 Jul 15	N/A	EPD	Superseded by EP-353/2009/J
2	All Areas	18 Feb 2016	N/A	Environmental Permit for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities	EP-353/2009/J	25 Feb 2016	N/A	EPD	Superseded by EP-353/2009/K
3	All Areas	24 Mar 2016	N/A	Environmental Permit for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities	EP-353/2009/K	11 Apr 2016	N/A	EPD	-
4	All Areas	30 Dec 2015	N/A	Billing Account for disposal of construction waste	7024342	16 Feb 2016	N/A	EPD	-
5	All Areas	30 Dec 2015	RABF-LTR- EPD- 000001	<b>Notification</b> that notifiable works are anticipated to commence (Form NA).	Acknowledge Receipt Ref. No. 397571	06 Jan 2016	N/A	EPD	-
6	All Areas	04 Jan 2016	RABF-LTR- EPD- 000002	Registration as Chemical Waste Producer for disposal of spent batteries, used lubrication oil and surplus paint at RABF area	WPN 5213-951- L2846-02	19 Feb 2016	N/A	EPD	-

Contract No. HY/2014/05 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities – Remaining Ancillary



LCAL H2642

Environmental License/ Permits /Notification Register

Contract No. HY/2014/05 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities – Remaining Ancillary Buildings and Facilities

							Date: Augus	t 2017	
ltem No.		mit/License c Applica	or Registration ation	Notification/ Registrat	Permit/License/ Registration	Issue/Start Date	Expiry Date	Issuing Office	Remark
10.	Work Area	Date	Reference	Registration Description	Number	Dute	Dute		
7	All Areas	25 Jan 2016	RABF-LTR- EPD- 000003	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Nondesignated area)	GW-RS0106-16	11 Feb 2016	10 Aug 2016	EPD	Superseded by GW-RS0476-16
8	All Areas	08 May 2016	RABF-LTR- EPD- 000012	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0476-16	19 May 2016	18 Nov 2016	EPD	Superseded by GW-RS0666-16
9	All Areas	16 Jun 2016	RABF-LTR- EPD- 000015	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0666-16	04 Jul 2016	03 Jan 2017	EPD	Superseded by GW-RS0907-16
10	All Areas	18 Aug 2016	RABF-LTR- EPD- 000018	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0907-16	01 Sep 2016	28 Feb 2017	EPD	Superseded by GW-RS1195-16



Environmental License/ Permits /Notification Register

Contract No. HY/2014/05 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities – Remaining Ancillary **Buildings and Facilities** 

	-						Date: Augus	t 2017	
ltem No.	Pei Work	Applica	or Registration ation	Permit/License/ Permit/License Notification/ Registration Registration Description Number		lssue/Start Date	Expiry Date	Issuing Office	Remark
	Area	Date	Reference	Registration Description	Number				
11	All Areas	16 Nov 2016	RABF-LTR-EPD- 000020	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS1195-16	30 Nov 2016	29 May 2017	EPD	Superseded by GW-RS1315-16
12	All Areas	08 Dec 2016	RABF-LTR-EPD- 000023	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Nondesignated area)	GW-RS1315-16	22 Dec 2016	21 Jun 2017	EPD	Superseded by GW-RS0131-17
13	WA3	13 Jan 2017	RABF-LTR-EPD- 000026	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00. (Non-designated area)	GW-RS0070-17	27 Jan 2017	26 Jul 2017	EPD	Superseded by GW-RS0626-17
14	All areas	03 Feb 2017	RABF-LTR-EPD- 000028	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0131-17	17 Feb 2017	16 Aug 2017	EPD	Superseded by GW-RS0306-17



LCAL H2642

Environmental License/ Permits /Notification Register

Contract No. HY/2014/05 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities – Remaining Ancillary **Buildings and Facilities** 

				-	-		Date: Augus	t 2017	
ltem No.	Permit/License or Registration Application			Permit/License/ _ Notification/ Registration Description	Permit/License/ Registration Number	lssue/Start Date	Expiry Date	Issuing Office	Remark
	Area	Date	Reference						
15	All areas	20 Mar 2017	RABF-LTR-EPD- 000035	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0306-17	05 Apr 2017	02 Oct 2017	EPD	Superseded by GW-RS0435-17
16	All areas	05 May 2017	RABF-LTR-EPD- 000036	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Nondesignated area)	GW-RS0435-17	20 May 2017	16 Nov 2017	EPD	Superseded by GW-RS0710-17
17	WA3	28 Jun 2017	RABF-LTR-EPD- 000041	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00. (Non-designated area)	GW-RS0626-17	27 Jul 2017	26 Jan 2018	EPD	-
18	All areas	03 Aug 2017	RABF-LTR-EPD- 000042	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0710-17	21 Aug 2017	16 Feb 2018	EPD	-



LCAL H2642

## ATAL Technologies Limited



## Environmental License/ Permits /Notification Register

## Contract No. HY/2013/06 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System

							Date: Augus	t 2017	
ltem	Perm	iit/License o Applica	r Registration ation	Permit/License/	Permit/License/ Registration	Issue/Start	Expiry	Issuing Office	Remark
No.	Work Area	Date	Reference	Registration Description	Number	Date	Date		
1	All Areas	24 Mar 2016	N/A	Environmental Permit for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities	EP-353/2009/K	11 Apr 2016	N/A	EPD	-
2	Building 023, 025 and 032	31 Jul 2015	WFG14980	Billing Account for disposal of construction waste	7023015	20 Aug 2015	N/A	EPD	-
3	N/A	N/A	N/A	Registration as Chemical Waste Producer for disposal chemical waste	N/A	N/A	N/A	N/A	#
4	All Areas	4 May 2017	CNP-GW416290	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 00:00 and 00:00 to 07:00. (Non- designated area)	GW-RS0452-17	1 Jun 2017	30 Nov 2017	EPD	-

# 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.

Rapiscan Systems Pte Ltd (RS)



Environmental License/ Permits /Notification Register

Contract No. HY/2014/04 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities – Gantry Type X-ray Vehicle Inspection System

					-		Date: Augus	t 2017	
ltem	Perm	nit/License or F Applicatio		Permit/License/	Permit/License/ Registration	Issue/Start	Expiry	Issuing Office	Remark
No.	Work Area	Date	Reference	Registration Description	Number	Date	Date		
1	All Areas	24 Mar 2016	N/A	Environmental Permit for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities	EP-353/2009/K	11 Apr 2016	N/A	EPD	-
2	All Areas	23 Aug 2016	N/A	Billing Account for disposal of construction waste	7025930	20 Sep 2016	N/A	EPD	(a)
3	N/A	N/A	N/A	Registration as Chemical Waste Producer for disposal chemical waste	N/A	N/A	N/A	N/A	(b)
4	Building 058 & 059	27 Jul 2017	-	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 00:00 and 00:00 to 07:00. (Non- designated area)	GW-RS0640-17	6 Aug 2017	4 Feb 2018	EPD	-

Remarks:

(a) As informed by the Contractor of Contract No. HY/2014/04 on 5 May 2017, the billing account for disposal of construction waste should be 7025930.

(b) The Contractor of Contract No. HY/2014/04 was advised to register as a chemical waste producer when chemical waste is expected to generate for the foreseeable future from the operations.



# **APPENDIX G**

Implementation Schedule for Environmental Mitigation Measures (EMIS)



#### Contract No. HY/2014/05 – Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Remaining Ancillary Buildings and Facilities

#### Implementation Schedule for Environmental Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Air Quality								
S5.5.6.1	A1	<ol> <li>The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation</li> </ol>	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	To control the dust impact to within the HKAQO and TM- EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm ⁻³ and 260 µgm ⁻³ , respectively)	$\checkmark$
S5.5.6.2	A2	<ol> <li>Proper watering of exposed spoil should be undertaken throughout the construction phase:</li> <li>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;</li> <li>Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> <li>A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones.</li> <li>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;</li> <li>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;</li> </ol>	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	To control the dust impact to within the HKAQO and TM- EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm ³ and 260 µgm ³ , respectively)	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	for the measures to achieve?	Implementation Status
S5.5.6.2	A2	<ul> <li>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;</li> <li>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;</li> <li>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;</li> <li>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;</li> <li>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;</li> <li>Any skip hoist for material transport should be totally enclosed by impervious sheeting;</li> <li>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 and the 3 sides;</li> </ul>	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	To control the dust impact to within the HKAQO and TM- EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm ⁻³ and 260 µgm ⁻³ , respectively)	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
S5.5.6.2	A2	<ul> <li>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;</li> <li>Loading, unloading, transfer, handling or storage of bulk 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</li> <li>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.</li> </ul>	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	To control the dust impact to within the HKAQO and TM- EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm ⁻³ and 260 µgm ⁻³ , respectively)	V
S5.5.6.4	A3	The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase.	Control construction dust	Contractor	All construction sites	Construction stage	To control the dust impact	V
S5.5.6.5	A4	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.	Control construction dust	Engineer	All construction sites	Design Stage	Air Pollution Control (Construction Dust) Regulation	V
S5.5.6.5	A5	Implement regular dust monitoring under EM&A programme during the construction stage.	Monitor the 24 hr and 1hr TSP levels at the representative dust monitoring stations to ensure compliance with relevant criteria throughout the construction period.	Contractor	Selected representative dust monitoring station	Construction stage	<ul> <li>Air Pollution Control (Construction Dust) Regulation</li> <li>To control the dust impact to within the HKAQO and TM-EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm⁻³ and 260 µgm⁻³, respectively)</li> </ul>	V (The dust monitoring at AMS6 under EM&A Programme for the Contract is covered by Contract No. HY/2011/03 while the dust monitoring at AMS7 under EM&A Programme for the Contract is covered by Contract No. HY/2013/01.)

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
S5.5.7.1	A6	<ul> <li>The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant:</li> <li>Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system;</li> <li>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;</li> <li>Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system;</li> <li>The materials which may generate airborne dusty emissions should be wetted by water spraysystem;</li> <li>All receiving hoppers should be enclosed on three sides up to 3m above unloading point;</li> <li>All conveyor transfer points should be totally enclosed;</li> <li>All access and route roads within the premises should be paved and wetted; and</li> <li>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.</li> </ul>	Monitor the 24 hr and 1hr TSP levels at the representative dust monitoring stations to ensure compliance with relevant criteria throughout the construction period.	Contractor	Selected representative dust monitoring station	Construction stage	<ul> <li>Air Pollution Control (Construction Dust) Regulation</li> <li>To control the dust impact to within the HKAQO and TM-EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm⁻³ and 260 µgm⁻³, respectively)</li> </ul>	N/A
S5.5.2.7	A7	<ul> <li>The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point:</li> <li>All road surface within the barging facilities will be paved;</li> <li>Dust enclosures will be provided for the loading ramp;</li> <li>Vehicles will be required to pass through designated wheels wash facilities; and</li> <li>Continuous water spray at the loading points.</li> </ul>	Control construction dust	Contractor	All construction sites	Construction stage	Air Pollution Control (Construction Dust) Regulation	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Construct								
S6.4.10	N1	<ol> <li>Use of good site practices to limit noise emissions by considering the following:         <ul> <li>only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;</li> <li>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 aminimum;</li> <li>plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;</li> <li>silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;</li> <li>mobile plant should be sited as far away from NSRs as possible and practicable;</li> <li>material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul> </li> </ol>	Control construction airborne noise by means of good site practices	Contractor	All construction sites	Construction stage	Noise Control Ordinance	
S6.4.11	N2	<ol> <li>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.</li> </ol>	Reduce the construction noise levels at low-level zone of NSRs through partial screening.	Contractor	All construction sites	Construction stage	Noise Control Ordinance     Annex 5, TM- EIA	N/A
S6.4.12	N3	3) Install movable noise barriers (typically density @14kg/m ² ), acoustic mat or full enclosure close to noisy plants including air compressor, generators, saw.	Screen the noisy plant items to be used at all construction sites	Contractor	For plant items listed in Appendix 6D of the EIA report at all construction sites	Construction stage	<ul> <li>Noise Control Ordinance</li> <li>Annex 5, TM- EIA</li> <li>75dB(A) for residential premises</li> <li>The movable barrier should achieve at least 5dB(A) and the full enclosure should be</li> </ul>	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
S6.4.13	N4	4) Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.	Reduce the noise levels of plant items	Contractor	For plant items listed in Appendix 6D of the EIA report at all construction sites	stage	<ul> <li>Noise Control Ordinance &amp; its TM</li> <li>Annex 5, TM- EIA</li> </ul>	V
S6.4.14	N5	5) Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction stage	<ul> <li>Noise Control Ordinance</li> <li>Annex 5, TM- EIA</li> </ul>	V
1	N6	6) Implement a noise monitoring under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected representative noise monitoring station	Construction stage	<ul> <li>Noise Control Ordinance</li> <li>Annex 5, TM- EIA</li> <li>75dB(A) for residential premises</li> </ul>	√ (The noise monitoring at NMS2 and NMS3B under EM&A programme for the Contract are covered by Contract No. HY/2013/01.)
Sediment	•				•			•
S7.3	S1	<ol> <li>The requirements as recommended in ETWB TC 34/2002 Management of Dredged/Excavated Sediment shall be included in the Particular Specification as appropriate.</li> </ol>	Develop sediment disposal arrangement	Engineer	All construction sites	Design stage	Waste Disposal Ordinance     ETW B TC 34/2002	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Waste Man	agement (	Construction Waste)						
S8.3.8	WM1	<ul> <li>Construction and Demolition Material The following mitigation measures should be implemented in handling the waste: <ul> <li>Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement;</li> <li>Carry out on-site sorting;</li> <li>Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;</li> <li>Adopt 'Selective Demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible;</li> <li>Implement a trip-ticket system for each works contract to ensure that the disposal of C&amp;D materials are properly documented and verified; and</li> <li>Implement an enhanced Waste Management Plan similar to ETW BTC (Works) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site sorting of C&amp;D materials and to minimize their generation during the course of construction.</li> <li>In addition, disposal of the C&amp;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.</li> </ul></li></ul>	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETW BTC 19/2005	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
\$8.3.9- \$8.3.11	WM2	<ul> <li><u>C&amp;D Waste</u></li> <li>Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&amp;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 andwastage.</li> </ul>	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TC 19/2005	V
S8 2 12-		<ul> <li>The Contractor should recycle as much of the C&amp;D materials as possible on-site. Public fill and C&amp;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.</li> </ul>						
\$8.2.12- \$8.3.15	WM3	<ul> <li><u>Chemical Waste</u></li> <li>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.</li> <li>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.</li> <li>The storage area for chemical wastes should be clearly labelled 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.</li> </ul>	Control the chemical waste and ensure proper storage, handling and disposal.	Contractor	All construction sites	Construction stage	<ul> <li>Waste Disposal (Chemical Waste) General) Regulation</li> <li>Code of Practice on the Packaging, Labelling and Storage of Chemical Waste</li> </ul>	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
		<ul> <li>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 a chemical waste collection service and can supply the necessary storage containers; or be to a reuser of the waste, under approval from the EPD.</li> </ul>						V
S8.3.16	WM4	<ul> <li><u>Sewage</u></li> <li>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.</li> </ul>	Proper handling of sewage from worker to avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	• Waste Disposal Ordinance	V
S8.3.17	WM5	<ul> <li>General Refuse</li> <li>General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes.</li> <li>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 bylaw.</li> <li>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 iffeasible.</li> <li>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. In addition, waste separation facilities for paper, aluminum cans, plastic bottles etc., should be provided.</li> <li>Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes.</li> </ul>	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	Waste Disposal Ordinance	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Water Qual	ity (Constr	uction Phase)						
S.9.11.1.7	W2	<ul> <li>Land Works 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:</li> <li>wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters;</li> <li>sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the W PCO or collected for disposal offsite. The use of soakaways shall be avoided;</li> <li>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;</li> <li>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 eachrainstorm;</li> <li>temporary access roads should be surfaced with crushed stone or gravel;</li> <li>rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities;</li> <li>measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system;</li> <li>open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms;</li> <li>manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent sit, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers;</li> </ul>	To control construction water quality	Contractor	Land-based works areas	Construction stage	TM-EIAO	
		<ul> <li>discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system;</li> </ul>						

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
S9.11.1.7	W2	<ul> <li>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;</li> <li>wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain;</li> <li>the section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel;</li> <li>wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects;</li> <li>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;</li> <li>the contractors shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately;</li> <li>waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance;</li> <li>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</li> <li>surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.</li> </ul>	To control construction water quality	Contractor	Land-based works areas	Construction stage	TM-EIAO	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Ecology (Co	onstructio	n Phase)						
S10.7	E4	<ul> <li>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</li> </ul>	Land-based works areas	Contractor	Land-based works areas	During construction	TM-Water	V
S10.7	E5	<ul> <li>Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time</li> </ul>	Prevent disturbance to terrestrial fauna and habitats	Contractor	Land-based works areas	During construction		V
S10.7	E8	<ul> <li>Control vessel speed</li> <li>Skipper training</li> <li>Predefined and regular routes for working vessels; avoid Brother Islands.</li> </ul>	Minimise marine traffic disturbance on dolphins	Contractor	Marine Traffic	During construction		N/A
Fisheries								
S11.7	F4	<ul> <li>Maritime Oil Spill Response Plan (MOSRP);</li> <li>Contingency plan.</li> </ul>	Minimise impacts on marine water quality impacts	Marine Department	HKBCF	During operation		N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Landscape	& Visual (	Detailed Design Phase)						
S14.3.3.1	LV1	<ul> <li>General design measures include:</li> <li>Roadside planting and planting along the edge of the HKBCF Island is proposed;</li> <li>Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory hydro-seeding and planting;</li> <li>Protection measures for the trees to be retained during construction activities;</li> <li>Optimizing the sizes and spacing of the bridge columns; Finetuning the location of the bridge columns to avoid visually-sensitivelocations;</li> <li>Maximizing new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed;</li> <li>Providing planting area around peripheral of HKBCF for tree planting screeningeffect;</li> <li>Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline;</li> <li>For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings and so on), and the related infrastructure (e.g. parapet planting and subtle materials for other facilities buildings and so on), and the related footbridges) to provide harmonious atmosphere of the HKBCF; and</li> <li>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.</li> </ul>	Minimise visual & landscape impact	Detailed designer	HKBCF	Design Stage		N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Landscape	& Visual (C	Construction Phase)						·
S14.3.3.3	LV2	<ul> <li>Mitigate both Landscape and Visual Impacts</li> <li>G1. Grass-hydroseed bare soil surface and stock pile areas.</li> <li>G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge footbridge to screen bridge and traffic.</li> <li>G3. Not applicable as this is for HKLR.</li> <li>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</li> <li>G5. Vegetation reinstatement and upgrading to disturbed areas</li> <li>G6. Maximizing new tree shrub and other vegetation planting to compensate tree felled and vegetation removed</li> <li>G7. Providing planting area around peripheral of HKBCF for tree planting screening effect;</li> <li>G8. Plant salt-tolerant native and shrubs etc along the planter strip at affected seawall.</li> <li>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</li> </ul>	Minimise visual & landscape impact	Contractor	HKBCF	Construction stage		N/A
<u>\$14.3.3.3</u>	LV3	buffer to enchance "natural-look" of the new coastline.         Mitigate Visual Impacts         V1.Minimize time for construction activities during construction period.         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.						√ for V1. N/A for V2.

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
EM&A								
S15.2.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual.	Control EM&A Performance	Project Proponent	All construction sites		EIAO Guidance Note No.4/2002     TM-EIAO	V
S15.5 - S15.6	EM2	<ol> <li>An Environmental Team needs to be employed as per the EM&amp;A Manual.</li> <li>Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures.</li> <li>An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&amp;A Manual are fully complied with.</li> </ol>	Perform environmental monitoring & auditing	Contractor	All construction sites		EIAO Guidance Note No.4/2002     TM-EIAO	V

Legends:  $\sqrt{}$  = Implemented; X = Not implemented; N/A = Not applicable



# **APPENDIX H**

Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions





### Statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

### For Contract No. HY/2014/05

Reporting Period	Cumulative Statistics					
	Complaints	Notifications of Summons	Successful Prosecutions			
This reporting period	0	0	0			
From commencement date of contract to end of reporting month	4	0	0			

### For Contract No. HY/2013/06 within Contract No. HY/2014/05 works area

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



### For Contract No. HY/2014/04 within Contract No. HY/2014/05 works area

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



# **APPENDIX I**

Environmental Site Inspection Schedule



#### Contract No. HY/2014/05 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Remaining Ancillary Buildings and Facilities

#### Environmental Site Inspction Schedule for October 2017

	Sunday	Monday	Tueday	Wednesday	Thursday	Friday	Saturday
Time	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct
			Site Inspection				
Time	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct
				Site Inspection			
Time	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct
		Site Inspection					
Time	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct
		Site Inspection					
Time	29-Oct	30-Oct	31-Oct				
		Site Inspection					

Contract No. HY/2013/06 (within Contract No. HY/2014/05 works area) Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System

Environmental Site Inspction Schedule for October 2017

-	Sunday	Monday	Tueday	Wednesday	Thursday	Friday	Saturday
Time	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct
			Site Inspection				
Time	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct
				Site Inspection			
Time	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct
		Site Inspection					
Time	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct
		Site Inspection					
Time	29-Oct	30-Oct	31-Oct				
		Site Inspection					

Contract No. HY/2014/04 (within Contract No. HY/2014/05 works area) Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Gantry Type X-ray Vehicle Inspection System

Environmental Site Inspction Schedule for October 2017

	Sunday	Monday	Tueday	Wednesday	Thursday	Friday	Saturday
Time	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct
			Site Inspection				
Time	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct
				Site Inspection			
Time	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct
		Site Inspection					
Time	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct
		Site Inspection					
Time	29-Oct	30-Oct	31-Oct				
		Site Inspection					