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Your ref. 5126871/19.10/OC054/SO/EK

Date: 14 October 2015

By Post and e-mail (Donald.lp@lcwjv.com)

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

Attn: Mr. Donald Ip

Dear Mr. Ip,

Contract No. HY/2013/01 Hong Kong – Zhuhai – Macao Bridge Hong Kong Boundary Crossing Facilities – Passenger Clearance Building Certification of Monthly EM&A Report No. 12

Atkins China Limited certifies, in the capacity of Environmental Team Leader, that the Monthly EM&A Report No. 12 for September 2015 (Revision 1), in principle, conforms the requirements provided in Condition 5.4 of the Environmental Permit No. EP-353/2009/I.

Yours faithfully, for and on behalf of Atkins China Limited

Sharifah OR Environmental Team Leader

CC.

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



Ref.: HYDHZMBEEM00_0_3466L.15

14 October 2015

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. Darrel Kingan

Dear Sir,

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

Contract No. HY/2013/01 – HZMB HKBCF – Passenger Clearance Building Monthly Environmental Monitoring & Audit Report No. 12 for September 2015

Reference is made to the Environmental Team's submission of the Monthly Environmental Monitoring & Audit Report No. 12 for September 2015 (Revision 1) certified by the ET Leader (ET's ref.: "5126871/19.10/OC054/SO/EK" dated 14 October 2015) and provided to us via e-mail on 14 October 2015.

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

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

Kongut

Raymond Dai Independent Environmental Checker

c.c.

HyD HyD Atkins LCWJV Mr. Matthew Fung Ms. Lowell Chiu Ms. Sharifah Or Mr. Gary Wong (By Fax: 3188 6614) (By Fax: 3188 6614) (By Fax: 2890 6343) (By Fax: 3621 0180)

Internal: DY, YH, LP, CL, ENPO Site

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Contract No. HY/2013/01

Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Passenger Clearance Building

Monthly EM&A Report No. 12 (Covering the Period from 1 September 2015 to 30 September 2015)

14 October 2015

Revision 1

Main Contractor



Environmental Team





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路政署 HIGHWAYS DEPARTMENT 港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

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- Appendix B Project Organization for Environmental Works
- Appendix C Construction Programme
- Appendix D Event and Action Plan
- Appendix E Waste Flow Table
- Appendix F Environmental Licenses and Permits
- Appendix G Implementation Schedule for Environmental Mitigation Measures (EMIS)
- Appendix H Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions
- Appendix I Environmental Site Inspection Schedule



Executive Summary

This Monthly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract HY/2013/01 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) – Passenger Clearance Building (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR). The Contract was awarded to Leighton – Chun Wo Joint Venture (hereafter referred to as "the Contractor") and Atkins China Limited was appointed as the Environmental Team (ET) by the Contractor.

The Contract is part of Hong Kong – Zhuhai – Macao Bridge HKBCF 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/I for HKBCF was issued on 17 July 2015. These documents are available through the EIA Ordinance Register. Site preparation works of the Contract started on 26 September 2014 and the construction works of the Contract commenced on 6 October 2014.

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 twelfth Monthly EM&A Report for the Contract which summarizes findings of the EM&A works during the reporting period from 1 September 2015 to 30 September 2015.

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 the air quality and noise monitoring works for the Contract are covered by Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works and Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF. The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7A 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/2010/02 and HY/2011/03. However, this is subject to ENPO's final decision on which ET should carry out the monitoring work at these stations.

The dates of site inspection during the reporting period are listed below:

Environmental Site Inspection 2, 9, 16, 23 and 30 September 2015

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 AMS7A by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

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

Complaint Log

There were no complaints 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

There was no reporting change during the reporting period.





Future Key Issues

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

- Bulk Excavation Works at WA1;
- Pile Testing at WA1;
- Pile Cropping and Pile Capping Works at WA1;
- Pile Capping Works and Column Construction at Southern drop off area of WA1;
- Mega Column Construction at WA1;
- Column and Wall Construction at WA1;
- Tie Beams Works at WA1;
- Base Slab Construction at WA1;
- Waterproofing for Pile cap and Tie Beams at WA1;
- Tower Crane Erection at WA1;
- Reinforced Concrete Works for Box Culvert at WA1; and
- Construction of Temporary Loading and Unloading Point at Portion A of Contract No. HY/2010/02.



Introduction

1.1 Basic Project Information

- 1.1.1 This monthly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract HY/2013/01 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities Passenger Clearance Building (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region. The Contract was awarded to Leighton Chun Wo Joint Venture (hereafter referred to as "the Contractor") and Atkins China Limited was appointed as the Environmental Team (ET) by the Contractor.
- 1.1.2 The Contract is part of Hong Kong Zhuhai Macao Bridge Hong Kong Boundary Crossing Facilities (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/I for HKBCF was issued on 17 July 2015. These documents are available through the EIA Ordinance Register. Site preparation work of the Contract started on 26 September 2014 and the construction works of the Contract Appendix A.
- 1.1.3 The proposed works under this Contract comprise the following:
 - Construction of Passenger Clearance Building (PCB) including architectural and builders works, structural steel roof and reinforced concrete frames, basement, piled foundations, aluminium roof, curtain wall facades, building services and electrical and mechanical works;
 - Installation of district cooling system including seawater cooling intake pumping station, seawater intake and discharge water pipelines work; Installation of Chilled water cooling pipelines system, heat exchanger and chilled pumping system;
 - Construction of transport and associated facilities connecting to the PCB entailing the Emergency Vehicular Access, an at-grade mainland side drop-off area, an Hong Kong side elevated drop-off deck and 8 nos. of footbridge links;
 - Construction of a public toilet, 6 nos. of C&ED observation booths, a generator set building and a refuse storage & material recovery chamber;
 - Construction of a section of 70m common utilities enclosure and staff subway and civil provisions for associated electrical and mechanical works;
 - Construction of drainage, sewerage, fresh water & flushing water supply and utilities & service works;
 - Construction of civil provisions, including draw pits & ducting for Traffic Control and Surveillance System (TCSS) and Extra Low Voltage System (ELV);
 - Construction of box culvert A;
 - Construction of 2 nos. of vehicular bridge abutments at mainland side pickup area earthmound;
 - Construction of geotechnical works including top up the existing earth mound from +11.5mPD to the finished level as stated in the Contract, reinforced earth slope and fill slopes and special backdrop manhole at mainland side pick up area earthmound;
 - Landscape hardworks and softworks; and
 - Other works which are shown on the Drawings or specified in the Specification or which may be ordered in accordance with the Contract.
- 1.1.4 This is the twelfth Monthly EM&A Report for the Contract which summarizes the audit findings of the EM&A programme during the reporting period from 1 September 2015 to 30 September 2015.





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**.

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax	
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Darrel Kingan	3958 7339	3468 2076	
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Y. H. Hui	3465 2888	3465 2899	
	Independent Environmental Checker	Raymond Dai	3465 2888	3465 2899	
Contractor	Project Manager	Gary Wong	3973 0488	3621 0180	
(Leighton – Chun Wo Joint Venture)	Environmental Officer	Donald Ip	6461 8635	3621 0180	
Environmental Team (Atkins China Limited)	Environmental Team Leader	Sharifah Or	2972 1802	2890 6343	
24 hours complaint hotline			3958 7300		

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:
 - Bulk Excavation Works at WA1;
 - Pile Testing at WA1;
 - Pile Cropping and Pile Capping Works at WA1;
 - Pile Capping Works and Column Construction at Southern drop off area of WA1;
 - Mega Column Construction at WA1;
 - Tie Beam Works at WA1;
 - Base Slab Construction at WA1;
 - Waterproofing for Pile Cap and Tie Beams at WA1;
 - Tower Crane Erection at WA1; and
 - Sheet Piling, Bulk Excavation and Reinforced Concrete Works for Box Culvert at WA1.





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/2010/02 Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works and Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF.
- 2.1.2 The permission to carry out impact air quality monitoring work at AMS7 (Hong Kong SkyCity Marriott Hotel) was not granted after 31 January 2015. The air quality monitoring location (AMS7) was relocated to a nearby air sensitive receiver, Chu Kong Air-Sea Union Transportation Co. Ltd., from 5 February 2015. The alternative location was approved by EPD on 5 February 2015. The baseline and action/limit level for air quality as derived from the baseline monitoring data recorded at Hong Kong SkyCity Marriott Hotel was adopted for the alternative air quality location.
- 2.1.3 The ET of the Contract or another ET of the HZMB project is required to conduct air quality monitoring at AMS6 and AMS7A as part of EM&A programme if these air quality monitoring stations are no longer covered under Contract Nos. HY/2010/02 and HY/2011/03. **Figure 2.1** shows the locations of the air monitoring stations.

ID	Location Description
AMS 6 ⁽¹⁾	Dragonair/CNAC (Group) Building
AMS 7A ⁽¹⁾	Chu Kong Air-Sea Union Transportation Co. Ltd. ⁽²⁾

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) The original monitoring location was at Hong Kong SkyCity Marriott Hotel. As the permission to carry out air quality monitoring at Hong Kong SkyCity Marriott Hotel was not granted after 31 January 2015, the monitoring location has been relocated to Chu Kong Air-Sea Union Transportation Co. Ltd. since 5 February 2015. The alternative monitoring location was approved by EPD on 5 February 2015.

2.2 Monitoring Requirements

- 2.2.1 The monitoring requirements, monitoring equipment, monitoring parameters, frequency and duration, monitoring methodology, monitoring schedule, meteorological information are detailed in the monthly EM&A Reports prepared for Contract Nos. HY/2010/02 and HY/2011/03.
- 2.2.2 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	
AMS 7A - Chu Kong Air-Sea Union Transportation Co. Ltd.	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	
AMS 7A - Chu Kong Air-Sea Union Transportation Co. Ltd.	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 AMS7A are reported in the monthly EM&A Reports prepared for Contract Nos. HY/2011/03 and HY/2010/02, 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 AMS7A recorded by the ET of Contract No. HY/2010/02 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/2010/02 Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works. 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/2010/02. **Figure 3.1** shows the locations of noise monitoring stations.

Table 3.1 Construction Noise Monitoring Locations

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/2010/02.
- 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(Å) for schools and 65 dB(Å) 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/2010/02. No noise exceedances were recorded at stations NMS2 and NMS3B by the ET of Contract No. HY/2010/02 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 Project. During the reporting period, site inspections were carried out on 2, 9, 16, 23 and 30 September 2015.
- 4.1.2 Particular observations during the site inspections and corrective actions undertaken by the Contractor are described below.

2 September 2015

- (a) Water accumulation was found inside a drip tray provided for a generator. The accumulated rainwater was cleared from the drip tray provided for generator. This observation was found on 26 August 2015 and closed on 2 September 2015.
- (b) Aluminium beverage cans were scattered on site. The aluminium beverage cans were collected for recycling. This observation was found on 2 September 2015 and closed on 9 September 2015.

9 September 2015

No particular environmental issue was recorded during the site inspection.

16 September 2015

(a) Some drums containing chemicals were stored on site without pollution control measures. The chemical drums were removed. This observation was found on 16 September 2015 and closed on 23 September 2015.

23 September 2015

- (a) An air compressor was found without drip tray at box culvert area (WA1). The air-compressor was removed from the site. This observation was found on 23 September 2015 and closed on 30 September 2015.
- (b) Fugitive dust emission was generated from drilling activities at WA1 area. Water spraying was applied to the drilling activities. This observation was found on 23 September 2015 and closed on 30 September 2015.

30 September 2015

No particular environmental issue was recorded during the site inspection.

The Contractor has rectified observations as identified during environmental site inspections within this reporting month.

4.2 Advice on the Solid and Liquid Waste Management Status

- 4.2.1 The Contractor registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 4.2.2 No excavated marine sediment was generated and treated using cement solidification/stabilization (Cement S/S) techniques during the reporting period.
- 4.2.3 The monthly summary of waste flow table is detailed in **Appendix E**.
- 4.2.4 The Contractor 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 Practise on the Packaging, Labelling and Storage of Chemical Wastes.





4.3 Environmental Licenses and Permits

- 4.3.1 The valid environmental licenses and permits during the reporting period are summarized in **Appendix F**.
- 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 AMS7A by the Environmental Team of Contract No. HY/2010/02 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/2010/02 during the reporting period.
- 4.6 Summary of Complaints, Notification of Summons and Successful Prosecution
- 4.6.1 There were no complaints received in relation to the environmental impact during the reporting period. No notification of summons and prosecution was received during the reporting period.
- 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 2015 are summarized in **Table 5.1**.

Site Area	Description of Activities
WA1	Bulk Excavation Works
WA1	Pile Testing
WA1	Pile Cropping and Pile Capping Works
Southern drop off area of WA1	Pile Capping Works and Column Construction
WA1	Mega Column Construction
WA1	Column and Wall Construction
WA1	Tie Beams Works
WA1	Base Slab Construction
WA1	Waterproofing for Pile Cap and Tie Beams
WA1	Tower Crane Erection
WA1	Reinforced Concrete Works for Box Culvert
Portion A of Contract No. HY/2010/02	Construction of Temporary Loading and Unloading Point

5.2 Environmental Site Inspection Schedule for the Coming Month

5.2.1 The tentative schedule for weekly site inspections for October 2015 is provided in **Appendix I**.



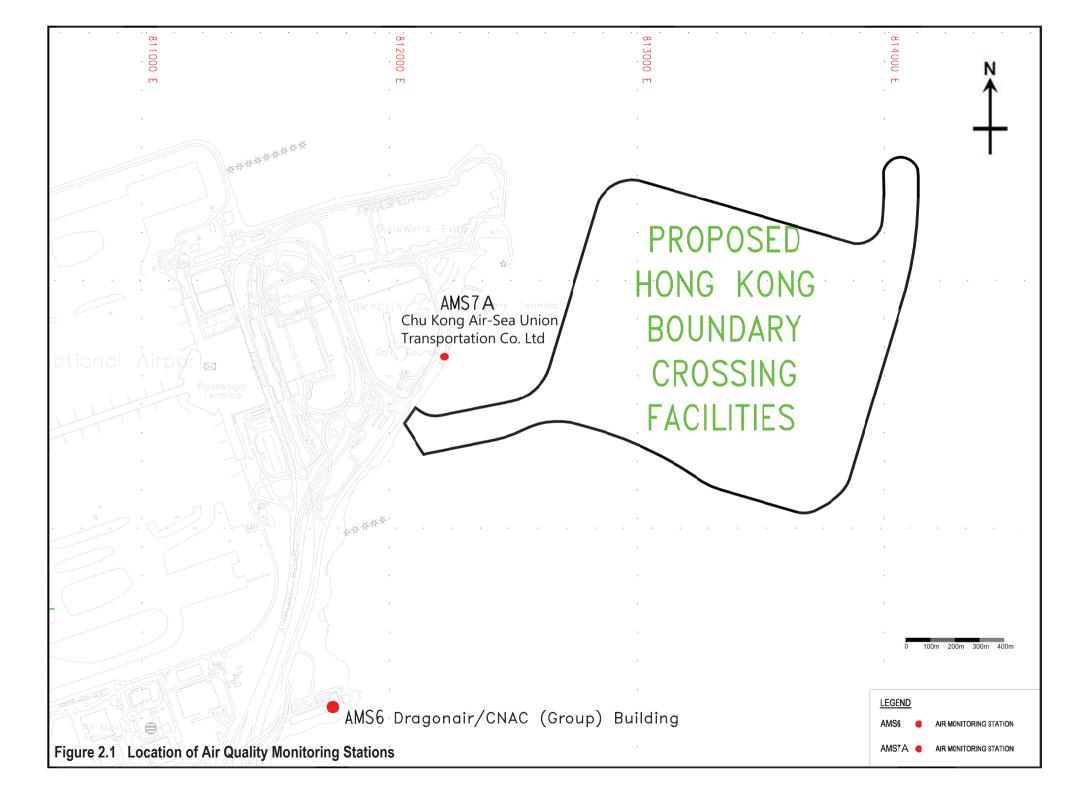
6 Conclusions

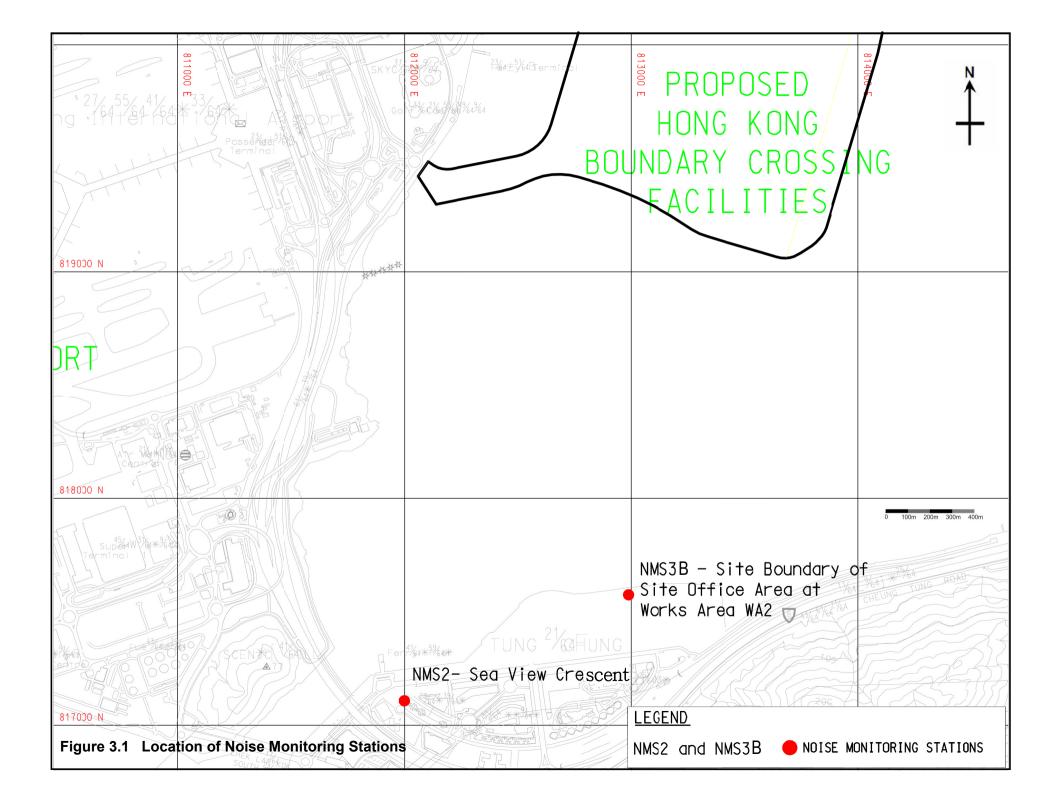
6.1 Conclusions

- 6.1.1 The site preparation work of the Contract started on 26 September 2014 and the construction works of the Contract commenced on 6 October 2014. The twelfth Monthly EM&A Report summarizes findings of the EM&A works during the reporting period from 1 September 2015 to 30 September 2015.
- 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 AMS7A by the Environmental Team of Contract No. HY/2010/02 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/2010/02 during the reporting period.
- 6.1.5 An environmental site inspection was carried out on 2, 9, 16, 23 and 30 September 2015. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.
- 6.1.6 There were no complaints 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.



FIGURES

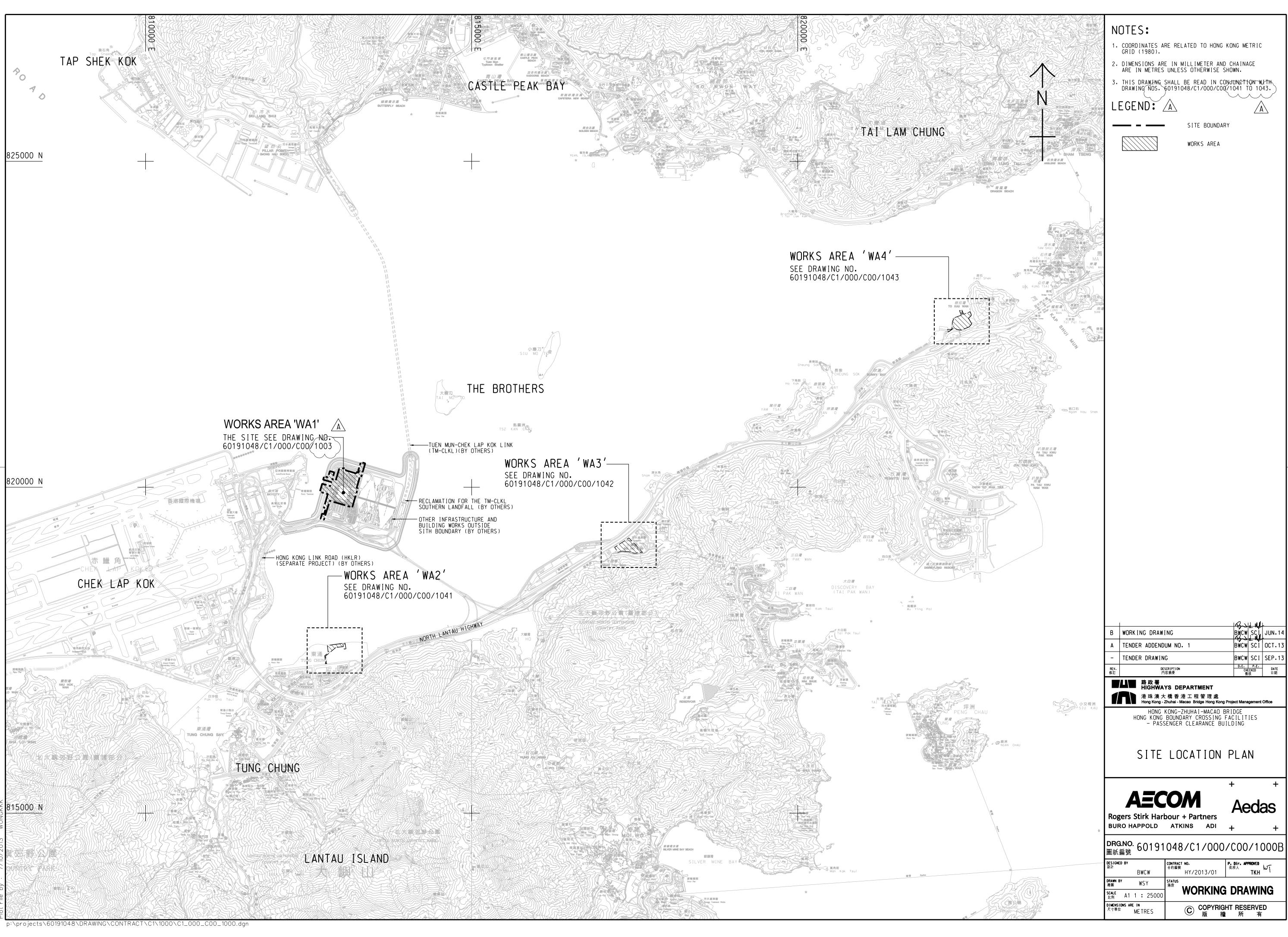


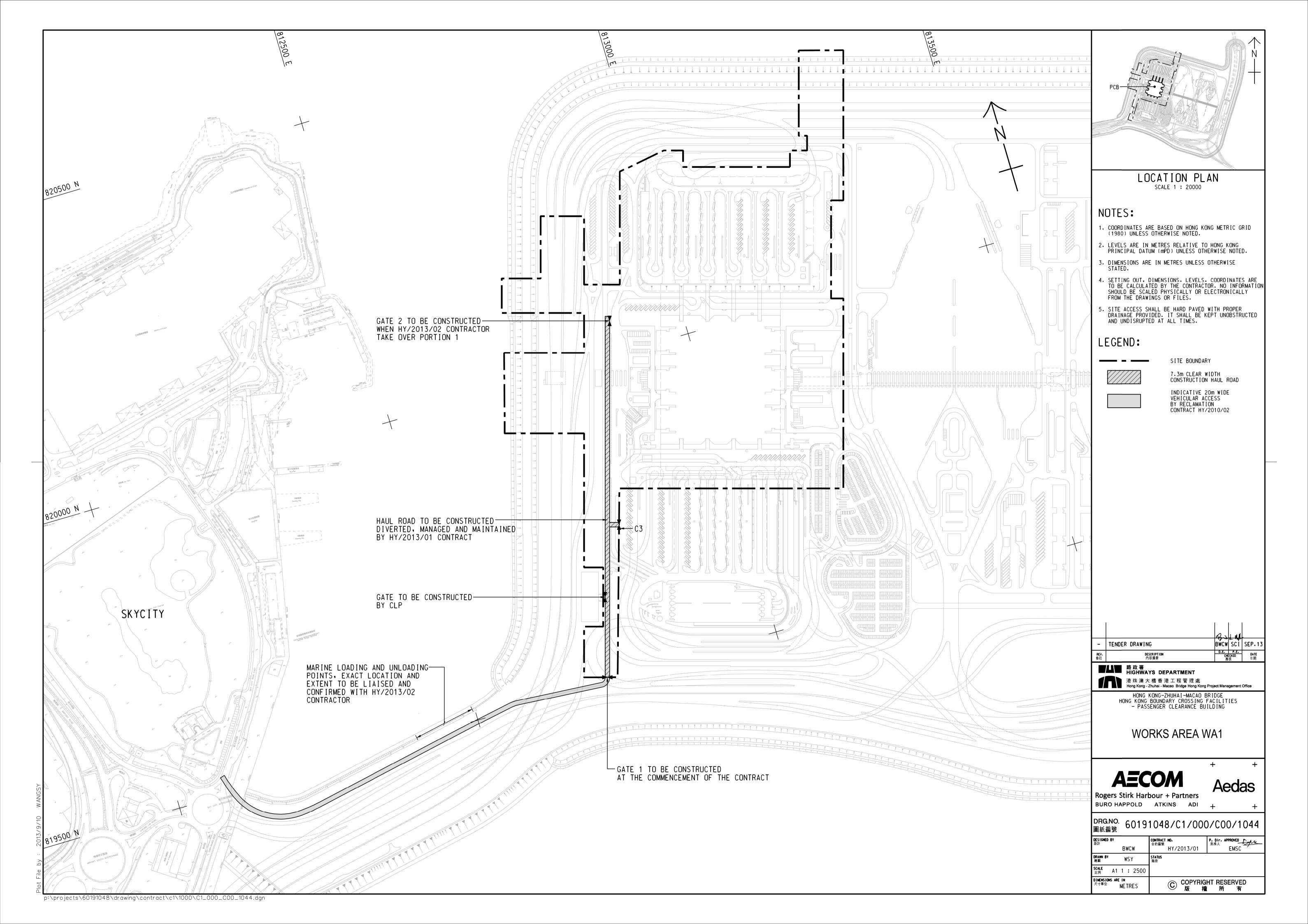


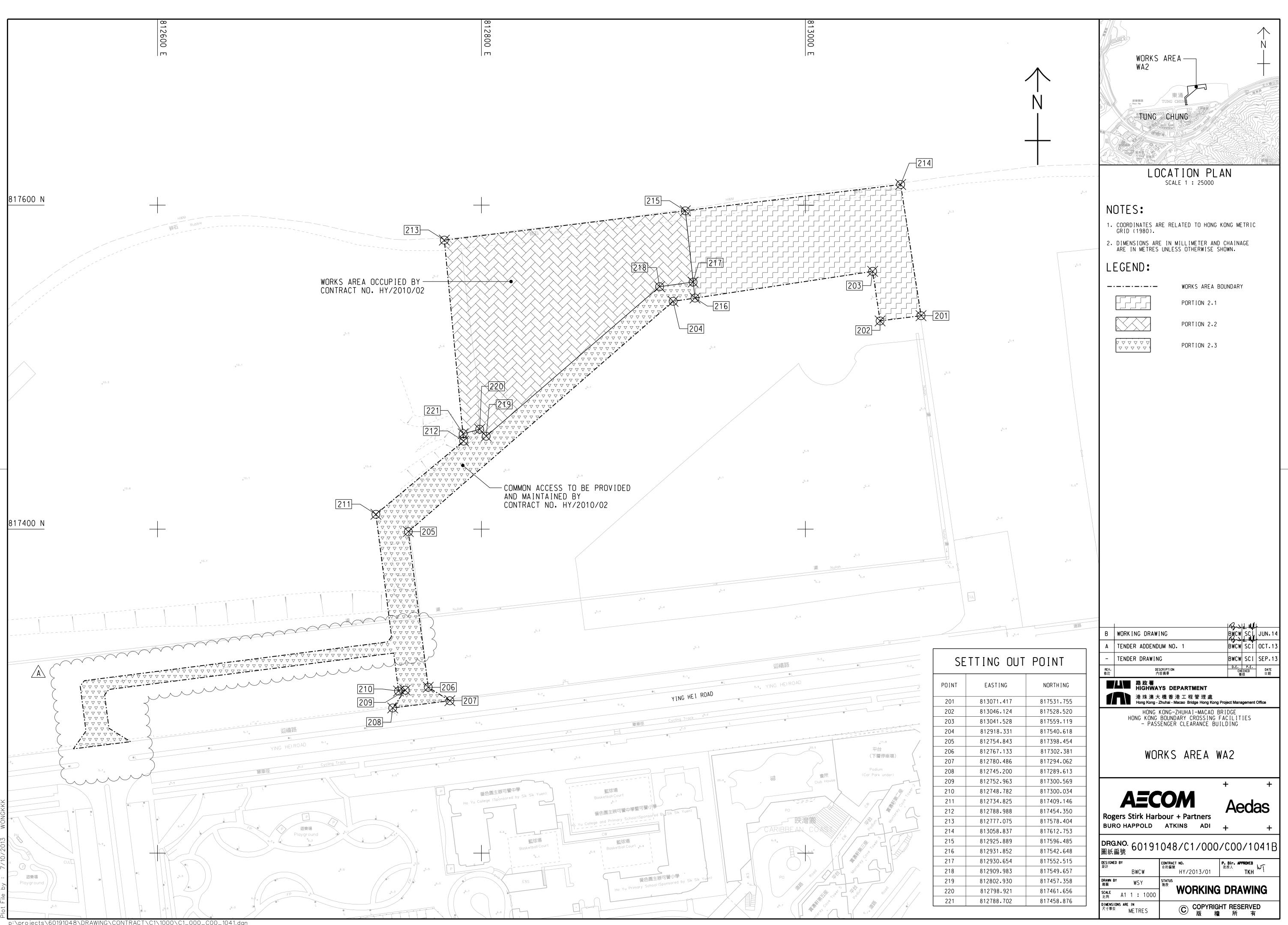


APPENDIX A

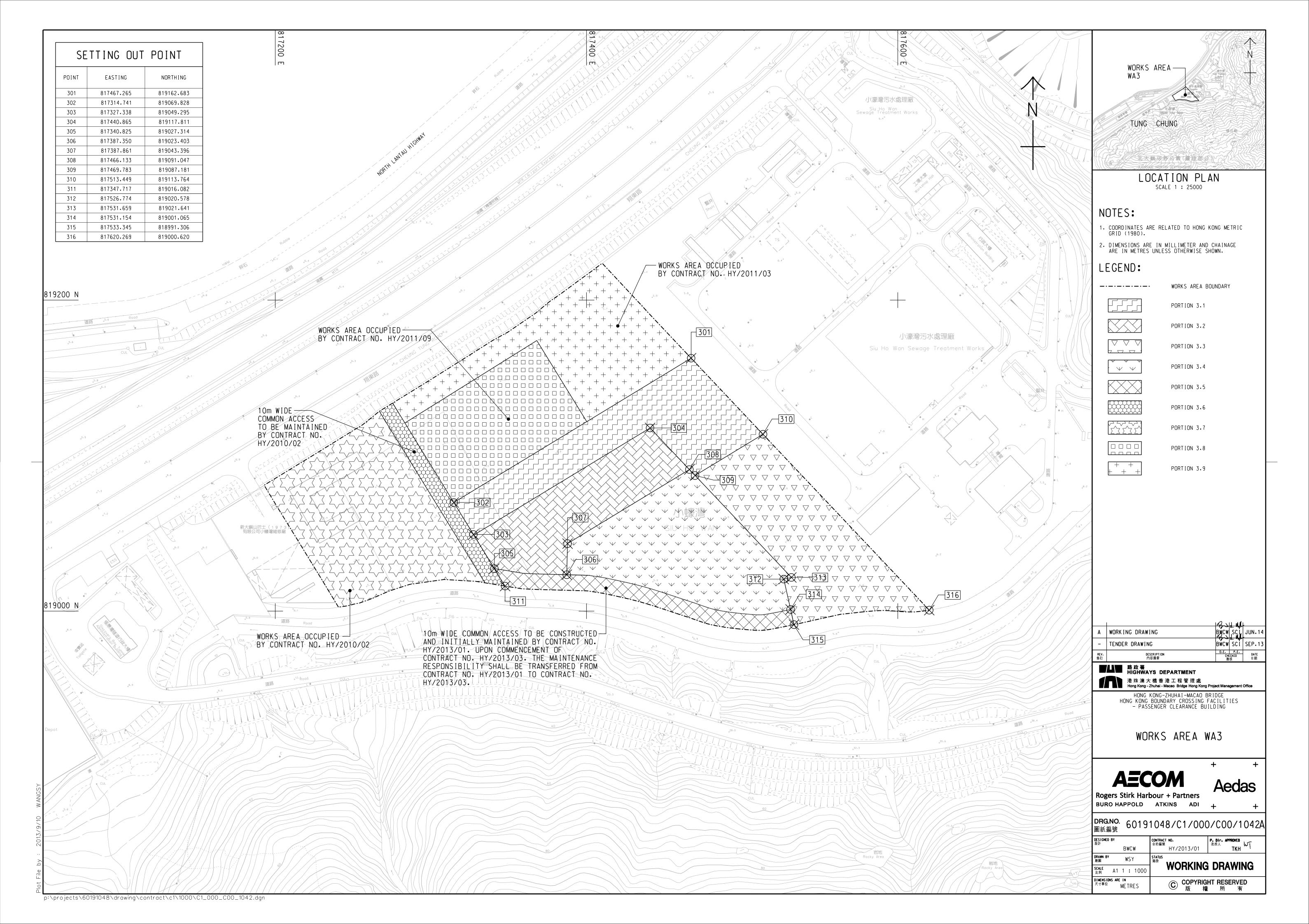
Location of Works Areas

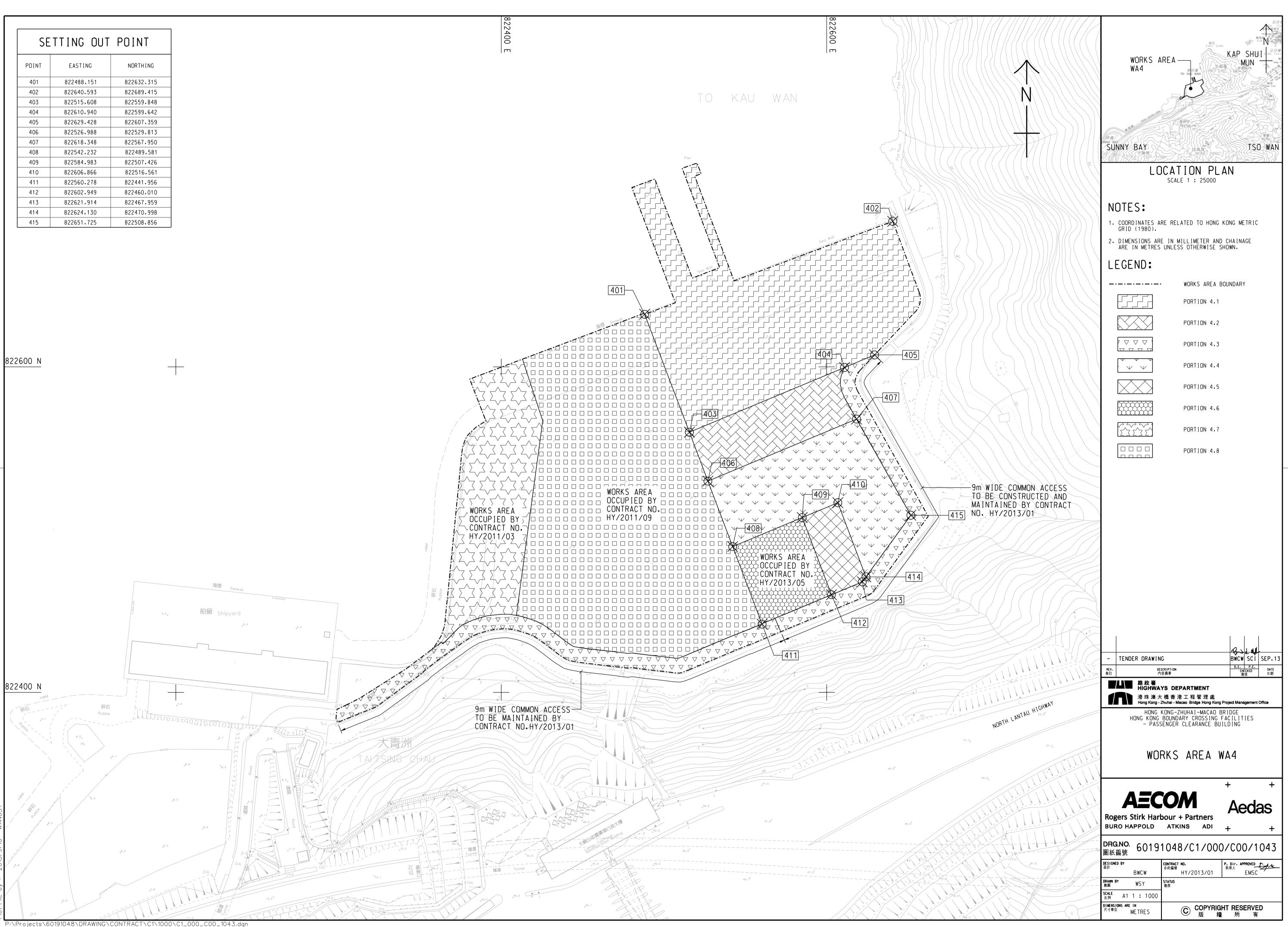






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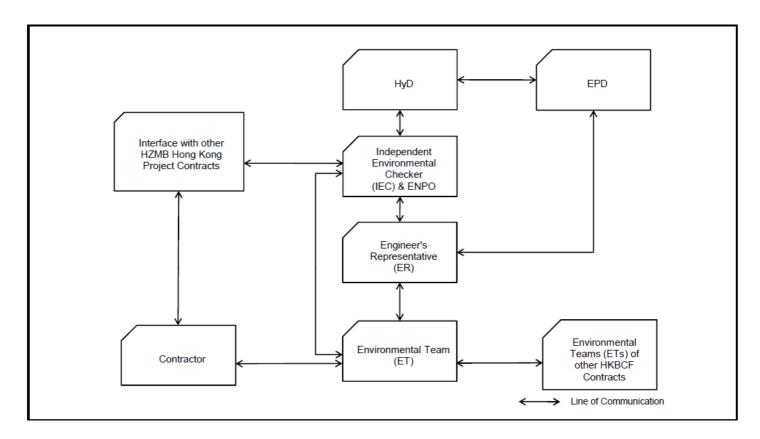
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APPENDIX B

Project Organization for Environmental Works







APPENDIX C

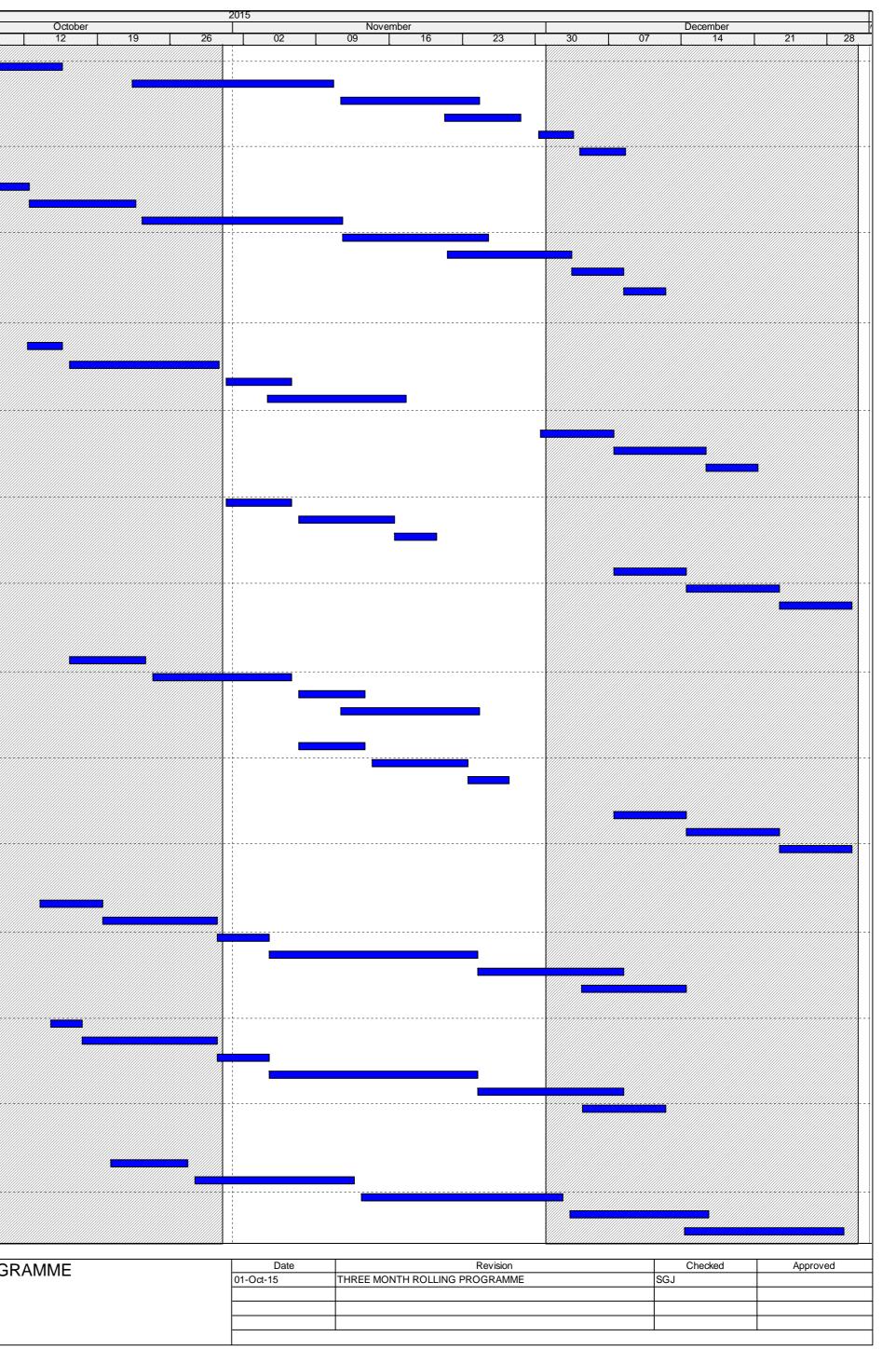
Construction Programme

Activity Name	Original Duration	Start	Finish	September	October	2015 November	December	
		02-Jul-15 A	28-Apr-16	07 14 21	28 05 12 19 26	02 09 16 23	30 07 14	21
2013/01 HKZMB HKBCF - PCB - 3MRP - Ser	194	02-JUI-15 A	20-Api-10					
NSTRUCTION	194	02-Jul-15 A	28-Apr-16					
	4.24	00 64 45 4						
senger Clearance Building	131	02-Jul-15 A	27-Feb-16					
thwork	106	20-Aug-15 A	07-Dec-15					
Ik Excavation (to -3.845 -1.495mPD)	106	20-Aug-15 A	07-Dec-15					
	60	08-Sep-15 A						
outh - 161230m ³	09	•	07-Dec-15					
lest - 86,369m ³	69	08-Sep-15 A	07-Dec-15					
CB-02-29610 PCB - Removal of A0 Bench CB-02-29620 PCB - Removal of B0 Bench	14	15-Sep-15 A 22-Sep-15 A	02-Oct-15 07-Oct-15					
	49	08-Sep-15 A	30-Nov-15					
PCB-02-29320 PCB - Excavation for Basement Zone A1	12	08-Sep-15 A	15-Oct-15					
PCB-02-29330 PCB - Excavation for Basement Zone A2	12	16-Nov-15	30-Nov-15					
0	45	18-Sep-15 A	07-Dec-15					
PCB-02-29350 PCB - Excavation for Basement Zone B1	12	18-Sep-15 A	23-Oct-15					
PCB-02-29360 PCB - Excavation for Basement Zone B2	12	23-Nov-15	07-Dec-15					
entre - 120,090m ³	93	20-Aug-15 A	27-Oct-15				{	
entre - 120,090m ³	93	20-Aug-15 A	27-Oct-15					
CB-02-29600 PCB - Excavation for Basement Zone C2 to -1.8mPD	15	31-Aug-15 A	15-Sep-15 A					
CB-02-23000 PCB - Excavation for Basement Zone C1 to -3.84mPD	35	20-Aug-15 A	23-Sep-15 A					
CB-02-29870 PCB - Excavation for Basement Zone C2 to -3.84mPD	20	15-Sep-15 A	27-Oct-15					
orth - 94,824m ³	14	14-Nov-15	30-Nov-15					
ast - 47,412m ³	14	14-Nov-15	30-Nov-15					
ast - 47,412m ³ CB-02-31580 PCB - Excavation for Basement (23,706m ³) Zone E3 East	14	14-Nov-15 14-Nov-15*	30-Nov-15 30-Nov-15					
	95	02-Jul-15 A	25-Jan-16					
e Caps and Tie Beam Construction	35	02-30-13 A	23-341-10					
sement Tie Beams & Pile Caps	95	02-Jul-15 A	25-Jan-16					
one E1	54	02-Jul-15 A	23-Nov-15					
S05	21	02-Jul-15 A	22-Oct-15					
CB-02-24400 Waterproofing to BF05 Mega Pile Cap Gridline H-G East	4	22-Jul-15 A	27-Jul-15 A					
CB-02-22630 Pile Caps to BF05 and Base Slab Mega Pile Cap Gridline H-G East	12	08-Jul-15 A	28-Jul-15 A					
CB-02-22260 Pile Cropping to BF05 Mega Pile Cap	12	02-Jul-15 A	17-Aug-15 A					
CB-02-31990 Columns above BS05	12	30-Jul-15 A	26-Sep-15 A					
CB-02-23040 BS05 External Wall	12	26-Sep-15 A	10-Oct-15	•				
CB-02-32000 BS05 Double Slab Walls	4	12-Oct-15	15-Oct-15					
CB-02-32010 BS05 Double Slab	5	16-Oct-15	22-Oct-15					
S04	54	04-Aug-15 A	23-Nov-15					
CB-02-22250 Pile Cropping to BF04	12	04-Aug-15 A	17-Aug-15 A					
CB-02-22620 Pile Caps & Tie Beams to BF04	12	04-Sep-15 A	22-Sep-15 A					
CB-02-24390 Waterproofing to BF04	4	23-Sep-15 A	26-Sep-15 A					
CB-02-22720 Backfilling to Tie Beams to BF04	4	29-Sep-15 A	05-Oct-15					
CB-02-21980 PCB - Base Slab (GL0.2 to 1.2) H-G - 204m ³ Pour BS04	15	06-Oct-15*	23-Oct-15					
CB-02-23030 PCB - Basement Ext Walls BS04	12	24-Oct-15	06-Nov-15					
CB-02-32030 Columns above BS04	9	04-Nov-15	13-Nov-15					
CB-02-32040 BS04 Double Slab Walls	4	14-Nov-15	18-Nov-15					
CB-02-32050 BS04 Double Slab	4	19-Nov-15	23-Nov-15					
506	42	03-Aug-15 A	20-Nov-15					
CB-02-20090 Pile Cropping to BF06	12	03-Aug-15 A	15-Aug-15 A	_				
CB-02-22640 Pile Caps & Tie Beams to BF06	12	15-Aug-15 A	05-Sep-15 A					
CB-02-24410 Waterproofing to BF06	4	24-Aug-15 A	11-Sep-15 A					
CB-02-25150 Backfilling to Tie Beams to BF06	4	12-Sep-15 A	05-Oct-15					
CB-02-22850 PCB - Base Slab (GL0.2 to 1.2) H-G - 337m ³ Pour BS06	15	23-Sep-15 A	13-Oct-15					
CB-02-23050 PCB - Basement Ext Walls BS06	18	14-Oct-15	04-Nov-15					
CB-02-32060 Columns above BS06	9	02-Nov-15	11-Nov-15					
CB-02-32070 BS06 Double Slab Walls	4	12-Nov-15	16-Nov-15					
CB-02-32080 BS06 Double Slab	4	17-Nov-15	20-Nov-15					
ne E2	64	13-Aug-15 A	12-Dec-15					
511	42	13-Aug-15 A	07-Nov-15					
CB-02-20270 Pile Cropping to BF11 Mega Pile Cap		13-Aug-15 A	22-Aug-15 A					
CB-02-22540 Pile Caps & Tie Beams to BF11 Mega Pile Cap Gridline E-F East	12	24-Aug-15 A	10-Sep-15 A					
CB-02-24310 Waterproofing to BF11 Mega Pile Cap Gridline E-F East	4	24-Aug-15 A	18-Sep-15 A					
CB-02-32090 Columns above BS11	6	10-Oct-15*	17-Oct-15					
CB-02-23070 PCB - Basement Ext Walls BS11	12	14-Oct-15*	29-Oct-15					
CB-02-32100 BS11 Double Slab Walls	4	29-Oct-15	03-Nov-15					
CB-02-32110 BS11 Double Slab	4	03-Nov-15	07-Nov-15					
\$12	57	16-Sep-15 A	08-Dec-15					
			1			Date Revision	Checked	Appro
Actual Work Remaining Work				I HKEE MONT	H ROLLING PROGRAMME	01-Oct-15 THREE MONTH ROLLING PROGRAMME	SGJ	
Remaining Work Critical Remaining Work					Page 1 of 7			

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	Duration	02- Jul-15 A	31 28-Apr-16	September 07 14	21 28 05	October 12 19 26	N 02 09	ovember 16 23	30 07	December 14	21
ON	194	02-Jul-15 A	28-Apr-16								
earance Building	131	02-Jul-15 A	27-Feb-16								
	106	20-Aug-15 A	07-Dec-15								
n (to -3.845 -1.495mPD)	106	20-Aug-15 A	07-Dec-15								
n ³	69										
CB - Removal of A0 Bench	14	15-Sep-15 A	02-Oct-15								
CB - Removal of B0 Bench	14	22-Sep-15 A	07-Oct-15								
CB - Excavation for Basement Zone A1	12	08-Sep-15 A 08-Sep-15 A	15-Oct-15								
CB - Excavation for Basement Zone A2	12	16-Nov-15	30-Nov-15								
CB - Excavation for Basement Zone B1	45 12	-									
CB - Excavation for Basement Zone B2	12	23-Nov-15	07-Dec-15								
)m ³	93	20-Aug-15 A	27-Oct-15								
n ³ CB - Excavation for Basement Zone C2 to -1.8mPD	93 15										
CB - Excavation for Basement Zone C1 to -3.84mPD	35	20-Aug-15 A	23-Sep-15 A								
CB - Excavation for Basement Zone C2 to -3.84mPD	20	15-Sep-15 A	27-Oct-15								
J ³	14	14-Nov-15 14-Nov-15	30-Nov-15 30-Nov-15								
CB - Excavation for Basement (23,706m ³) Zone E3 East	14	14-Nov-15*	30-Nov-15				1				
Tie Beam Construction	95	02-Jul-15 A	25-Jan-16								
Beams & Pile Caps	95	02-Jul-15 A	25-Jan-16								
Vaterproofing to BF05 Mega Pile Cap Gridline H-G East	4	22-Jul-15 A	27-Jul-15 A								
ile Caps to BF05 and Base Slab Mega Pile Cap Gridline H-G East	12	08-Jul-15 A	28-Jul-15 A								
	12 12	02-Jul-15 A 30-Jul-15 A									
S05 External Wall	12	26-Sep-15 A	10-Oct-15								
S05 Double Slab Walls	4	12-Oct-15	15-Oct-15								
	54	04-Aug-15 A	23-Nov-15								
ile Cropping to BF04	12	04-Aug-15 A	17-Aug-15 A								
	12 4	04-Sep-15 A 23-Sep-15 A	22-Sep-15 A								
ackfilling to Tie Beams to BF04	4	29-Sep-15 A	05-Oct-15								
columns above BS04	9	04-Nov-15	13-Nov-15								
S04 Double Slab Walls	4	14-Nov-15	18-Nov-15				I				
	4	03-Aug-15 A	20-Nov-15								
ile Cropping to BF06	12	03-Aug-15 A	15-Aug-15 A								
-		-	·								
ackfilling to Tie Beams to BF06	4	12-Sep-15 A	05-Oct-15								
CB - Base Slab (GL0.2 to 1.2) H-G - 337m ³ Pour BS06	15 18	23-Sep-15 A	13-Oct-15								
Columns above BS06	9	02-Nov-15	11-Nov-15								
S06 Double Slab Walls	4	12-Nov-15	16-Nov-15								
	4 64	17-Nov-15 13-Aug-15 A	20-Nov-15 12-Dec-15								
	42	13-Aug-15 A	07-Nov-15								
ile Cropping to BF11 Mega Pile Cap	12	13-Aug-15 A	22-Aug-15 A								
Vaterproofing to BF11 Mega Pile Cap Gridline E-F East	12 4	24-Aug-15 A 24-Aug-15 A	10-Sep-15 A 18-Sep-15 A								
columns above BS11	6	10-Oct-15*	17-Oct-15								
	12 4		29-Oct-15 03-Nov-15								
S11 Double Slab	4	03-Nov-15	07-Nov-15								
	57	16-Sep-15 A	08-Dec-15								
				THREE M	ONTH ROLLING PROGRA	MME	Date	Revision		Checked	Approved
Nork							01-Oct-15 THREE		SGJ		
логк					Page 1 Of /						
	earance Building h (to -3.845 -1.495mPD) 3 CB - Removal of A0 Bench CB - Removal of A0 Bench CB - Removal of B0 Bench CB - Excavation for Basement Zone A1 CB - Excavation for Basement Zone A2 CB - Excavation for Basement Zone B1 CB - Excavation for Basement Zone B1 CB - Excavation for Basement Zone C2 to -1.8mPD CB - Excavation for Basement Zone C2 to -1.8mPD CB - Excavation for Basement Zone C2 to -3.84mPD CB - Excavation for Basement Zone C2 to -3.84mPD CB - Excavation for Basement Zone C2 to -3.84mPD CB - Excavation for Basement Zone C2 to -3.84mPD CB - Excavation for Basement Zone C2 to -3.84mPD CB - Excavation for Basement Zone C2 to -3.84mPD CB - Excavation for Basement Zone C2 to -3.84mPD CB - Excavation for Basement Zone C2 to -3.84mPD CB - Excavation for Basement Zone C2 to -3.84mPD CB - Excavation for Basement Zone C2 to -3.84mPD CB - Excavation for Basement Zone C2 to -3.84mPD CB - Excavation for Basement Zone C2 to -3.84mPD CB - Excavation for Basement Zone C2 to -3.84mPD CB - Excavation for Basement Zone C2 to -3.84mPD CB - Excavation for Basement Zone C2 to -3.84mPD CB - Excavation for Basement Zone C2 to -3.84mPD CB - Excavation for Basement Zone C2 to -3.84mPD CB - Excavation for Basement Zone C2 to -3.84mPD CB - Excavation for Basement Zone C2 to -3.84mPD CB - Base Sib Megia Pile Cap Gridline H-G East C Copping to BF05 Mega Pile Cap Gridline H-G East C Copping to BF05 Mega Pile Cap C Copping to BF04 E - Craps & Te Beams to BF04 C Caps & Te Beams to BF04 C Caps & Te Beams to BF04 C Caps & Te Beams to BF06 C Caps & Te Beams to BF11 Mega Pile Cap Gridline E-F East C Caps & Te Beams to BF11 Mega Pile Cap Gridline E-F East C Caps & Te Beams to BF11 Mega Pile Cap Gridline E-F East C Caps & Te B	ON 194 earance Building 101 100 100 n (to -3.845 -1.495mPD) 106 n2 69 28 - Removal of A0 Bench 14 28 - Removal of B0 Bench 14 28 - Excavation for Basement Zone A1 12 28 - Excavation for Basement Zone A2 12 29 - Excavation for Basement Zone B1 12 29 - Excavation for Basement Zone B2 12 m3 93 93 29 - Excavation for Basement Zone C2 to -1.8mPD 15 29 - Excavation for Basement Zone C2 to -3.84mPD 20 30 - Excavation for Basement Zone C2 to -3.84mPD 20 31 - Excavation for Basement Zone C2 to -3.84mPD 20 32 - Excavation for Basement (23.706m ³) Zone E3 East 14 12 - Excavation for Basement Zone C2 to -3.84mPD 20 32 - Excavation for Basement Zone C4 Ca o Gridine H-G East 4 134 - East 4 135 - Excavation for Basement Zone C4 Ca o Gridine H-G East 12 136 - Excavation for Basema Bab Pile Cap Gridine H-G East 12 141 - East 4<	ALLING TIKEDER PECE SUMER PSQL 194 92-JU151A ON 194 92-JU151A 00-JU150A Data and Comparison of the second sec	CALL DI TURD CE - PICO E SUIRCE - 2 SP Revenue Security Security	Chamber Processor Summer 2009 Stand Sta Stand	Name of the large	No. No. <td>Carton Carton Carton Carton Carton 10 20<!--</td--><td></td><td>Charlen Charlen Control Contro Control Control<</td><td></td></td>	Carton Carton Carton Carton Carton 10 20 </td <td></td> <td>Charlen Charlen Control Contro Control Control<</td> <td></td>		Charlen Charlen Control Contro Control Control<	

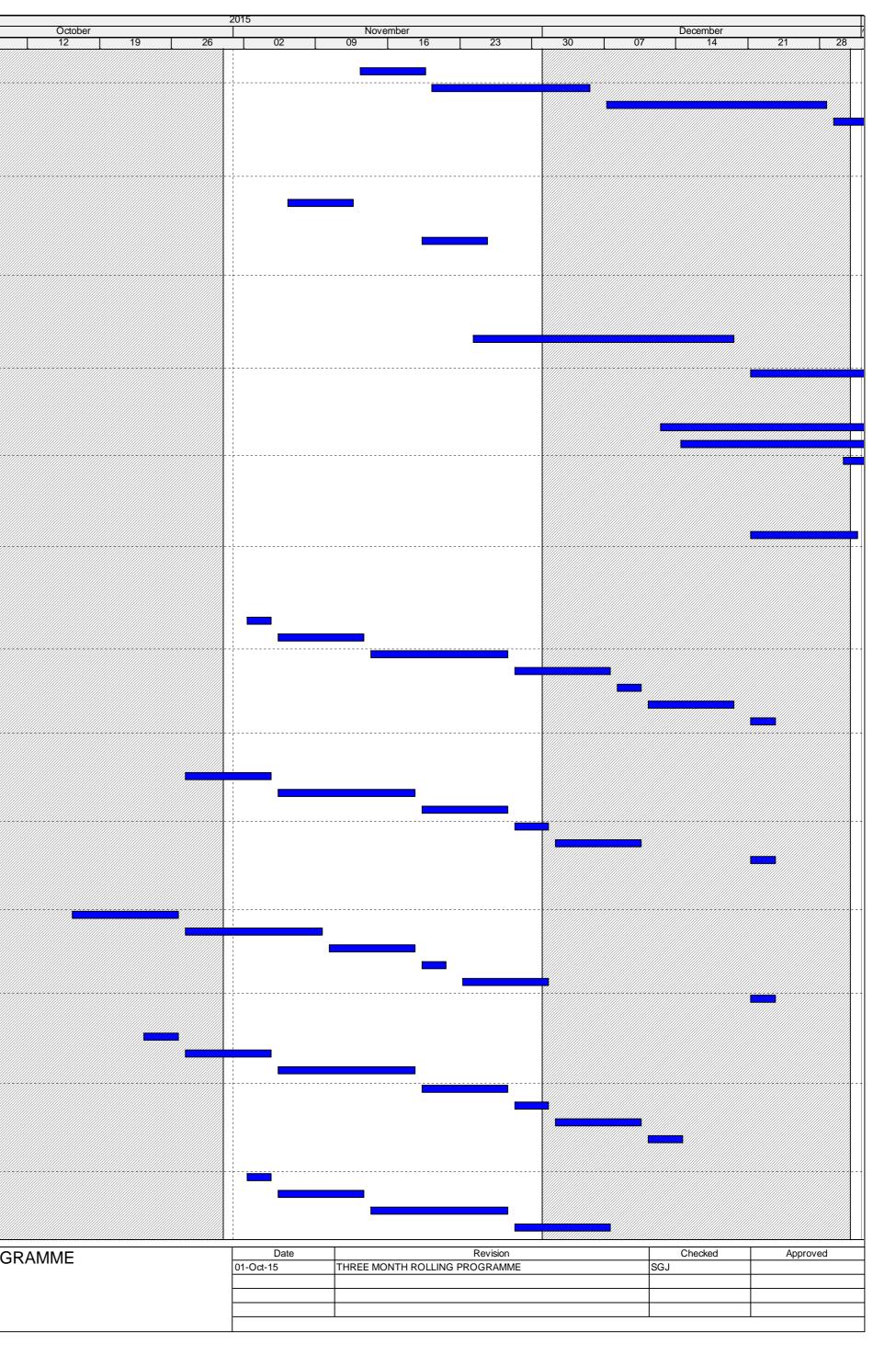
)	Activity Name	Original Duration	Start	Finish	24		tember			
PCB-02-22380	Pile Cropping to BF12	12	16-Sep-15 A	23-Sep-15 A	31 0)7	14	21	28	
PCB-02-22550 PCB-02-22550	Pile Caps & Tie Beams to BF12	12	23-Sep-15 A	15-Oct-15	+					
PCB-02-21830	PCB - Base Slab (GL0.2 to 1.2) F-E.5 - 339m ³ Pour BS12	17	22-Oct-15	10-Nov-15*	-					
PCB-02-23080	PCB - Basement Ext Walls BS12	12	11-Nov-15	24-Nov-15	-					
PCB-02-32120	Columns above BS12	7	21-Nov-15	28-Nov-15	-					
PCB-02-32130	BS12 Double Slab Walls	4	30-Nov-15	03-Dec-15	-					
PCB-02-32140	BS12 Double Slab	4	04-Dec-15	08-Dec-15					 · <mark>(/////////</mark> ///////////////////////////	
BS10		56	21-Sep-15 A	12-Dec-15						
PCB-02-22270	Pile Cropping to BF10	12	21-Sep-15 A	12-Oct-15	1					
PCB-02-22650	Pile Caps & Tie Beams to BF10	9	12-Oct-15	22-Oct-15	-					
PCB-02-21790	PCB - Base Slab (GL2.2 to 3.2) F-E.5 - 509m ³ Pour BS10	17	23-Oct-15	11-Nov-15						
PCB-02-23060	PCB - Basement Ext Walls BS10	12	11-Nov-15	25-Nov-15					 	
PCB-02-32150	Columns above BS10	10	21-Nov-15	03-Dec-15	-					
PCB-02-32160	BS10 Double Slab Walls	4	03-Dec-15	08-Dec-15	-					
PCB-02-32170	BS10 Double Slab	4	08-Dec-15	12-Dec-15	-					
Zone W1		65	12-Oct-15	30-Dec-15						
BS02		31	12-Oct-15	17-Nov-15					 · · · · · · · · · · · · · · · · · · ·	
PCB-02-20050	Pile Cropping to BF02 Mega Pile Cap	4	12-Oct-15	15-Oct-15						
PCB-02-22450			12-Oct-15	30-Oct-15						
PCB-02-22450 PCB-02-32220	Pile Caps & Tie Beams to BF02 Mega Pile Cap and Base Slab Gridline H Columns above BS02	12 6	31-Oct-15	30-Oct-15 06-Nov-15	-					
PCB-02-32220 PCB-02-21770	Columns above BS02 PCB - Basement Ext Walls to BS02	6 12	04-Nov-15	06-Nov-15 17-Nov-15	-					
		12	04-Nov-15 30-Nov-15	21-Dec-15					 	
BF01 Stage 1 PCB-02-29380	Dile Cropping to DE01 Stage 2				4					
	Pile Cropping to BF01 Stage 2 Pile Caps & Tie Beams to BE01 Stage 2	6	30-Nov-15	07-Dec-15	-					
PCB-02-29390 PCB-02-29410	Pile Caps & Tie Beams to BF01 Stage 2 Backfilling to Tie Beams to BF01 Stage 2	8	07-Dec-15 16-Dec-15	16-Dec-15 21-Dec-15	-					
	Backhilling to Tie Beams to BF01 Stage 2	18								
BF03 Stage 1	Bile Crossing to BE00 Stress 4		31-Oct-15	20-Nov-15	4				 	
PCB-02-29420 PCB-02-29430	Pile Cropping to BF03 Stage 1	6 8	31-Oct-15	06-Nov-15	_					
PCB-02-29430 PCB-02-29450	Pile Caps & Tie Beams to BF03 Stage 1 Backfilling to Tie Beams to BF03 Stage 1	0	07-Nov-15 16-Nov-15	16-Nov-15 20-Nov-15						
		18	07-Dec-15	30-Dec-15	-					
BF03 Stage 2	Pile Cropping to BF03 Stage 2									
PCB-02-31610		6	07-Dec-15	14-Dec-15					 <mark>////////</mark> /	
PCB-02-31700 PCB-02-31870	Pile Caps & Tie Beams to BF03 Stage 2 Backfilling to Tie Beams to BF03 Stage 2	8	14-Dec-15 23-Dec-15	23-Dec-15 30-Dec-15	-					
	backhining to the beams to bros Stage 2	61	16-Oct-15	30-Dec-15						
Zone W2										
BS08		33	16-Oct-15	24-Nov-15	4					
PCB-02-22330	Pile Cropping to BF08 Mega Pile Cap	6	16-Oct-15	23-Oct-15					 	
PCB-02-22580	Pile Caps & Tie Beams to BF08 Mega Pile Cap Gridline E-F West	12	24-Oct-15	06-Nov-15	_					
PCB-02-32230	Columns above BS08	6	07-Nov-15	13-Nov-15	_					
PCB-02-22890	PCB - Basement Ext Walls to BS08	12	11-Nov-15	24-Nov-15						
BF09 Stage 1		18	07-Nov-15	27-Nov-15						
PCB-02-29460	Pile Cropping to BF09 Stage 1	6	07-Nov-15	13-Nov-15					 	
PCB-02-29470	Pile Caps & Tie Beams to BF09 Stage 1	8	14-Nov-15	23-Nov-15						
PCB-02-29490	Backfilling to Tie Beams to BF09 Stage 1	4	23-Nov-15	27-Nov-15						
BF09 Stage 2		18	07-Dec-15	30-Dec-15						
PCB-02-31620	Pile Cropping to BF09 Stage 1	6	07-Dec-15	14-Dec-15						
PCB-02-31720	Pile Caps & Tie Beams to BF09 Stage 1	8	14-Dec-15	23-Dec-15					 	
PCB-02-31890	Backfilling to Tie Beams to BF09 Stage 1	4	23-Dec-15	30-Dec-15						
Zone C1		52	13-Oct-15	14-Dec-15						
BS17		52	13-Oct-15	14-Dec-15						
PCB-02-22280	Pile Cropping to BF17	5	13-Oct-15*	19-Oct-15	_					
PCB-02-22660	Pile Caps & Tie Beams to BF17	9	19-Oct-15	30-Oct-15	l					
PCB-02-22740	Backfilling to Tie Beams to BF17	4	30-Oct-15	04-Nov-15	_					
PCB-02-21800	PCB - Base Slab (GL3.2 to 4.2) F-E.5 - 522m ³ Pour BS17	17	04-Nov-15	24-Nov-15	_					
PCB-02-23010	PCB - Basement Ext Walls BS17 (Rqd for BS26)	12	24-Nov-15	08-Dec-15	_					
PCB-02-32180	Columns above BS10	8	04-Dec-15	14-Dec-15						
BS18		50	14-Oct-15	12-Dec-15	4				 	
PCB-02-22370	Pile Cropping to BF18	3	14-Oct-15*	17-Oct-15	_					
PCB-02-22530	Pile Caps & Tie Beams to BF18	10	17-Oct-15	30-Oct-15	_					
PCB-02-22800	Backfilling to Tie Beams to BF18	4	30-Oct-15	04-Nov-15	_					
PCB-02-22870	PCB - Base Slab (GL1.2 to 2.2) F-E.5 - 561m ³ Pour BS18	17	04-Nov-15	24-Nov-15	_					
PCB-02-23140	PCB - Basement Ext Walls BS18	12	24-Nov-15	08-Dec-15	l				 	
PCB-02-32190	Columns above BS10	7	04-Dec-15	12-Dec-15	_					
Zone C2		80	20-Oct-15	25-Jan-16						
BS15		58	20-Oct-15	29-Dec-15						
PCB-02-22290	Pile Cropping to BF15	6	20-Oct-15	27-Oct-15						
PCB-02-22670	Pile Caps & Tie Beams to BF15	14	28-Oct-15	12-Nov-15	-					
PCB-02-21850	PCB - Base Slab (GL3.2 to 4.2) G-F - 538m ³ Pour BS15	17	13-Nov-15	02-Dec-15	1					1////
		12	03-Dec-15	16-Dec-15	1					
PCB-02-23020	PCB - Basement Ext Walls BS15 (Rqd for BS27)	12	00 200 10						///////////////////////////////////////	

Actual Work	THREE MONTH ROLLING PROG
Remaining Work	
Critical Remaining Work	Page 2 of 7
♦ Baseline Milestone	
◆ ♦ Milestone	



Activity ID		Activity Name	Original	Start	Finish										
			Duration			31	07	Sept	tember 14		21		28		05
BS16			60	13-Nov-15	25-Jan-16		L	i		L					
PCB-02-2	-22350	Pile Cropping to BF16	6	13-Nov-15*	19-Nov-15										
PCB-02-2	-22600	Pile Caps & Tie Beams to BF16	14	20-Nov-15	05-Dec-15										
PCB-02-2	-22860	PCB - Base Slab (GL4.2 to 5.2) F-E.5 - 565m ³ Pour BS16	17	07-Dec-15	28-Dec-15										
PCB-02-2	-22920	PCB - Basement Ext Walls BS16	12	29-Dec-15	12-Jan-16										
PCB-02-3	-32210	Columns above BS16	14	09-Jan-16	25-Jan-16	_									
Tower C	Cranes		17	06-Nov-15	25-Nov-15										
		No.4 - SOUTH WEST	6	06-Nov-15	12-Nov-15	• • • • • • • • • •									
PCB-02-22		PCB(A1) - Erect Tower Crane TC4	6	06-Nov-15	12-Nov-15 25-Nov-15										
		No.5 - SOUTH MIDDLE	6	19-Nov-15											
PCB-02-22	2050	PCB(A1) - Erect Tower Crane TC5	6	19-Nov-15	25-Nov-15										
Superst	tructur	e	74	24-Nov-15	27-Feb-16										
Ground	Floor	Slabs (+5.450mPD)	74	24-Nov-15	27-Feb-16										
SOUTH		· ·	38	24-Nov-15	09-Jan-16										
		bs (+5.450mPD)	23	24-Nov-15	19-Dec-15										
		Construct Ground Floor Suspended Slab Pour GS03 - 237m ³	23	24-Nov-15	19-Dec-15										
		Suspended Slabs	15	24-100-15 21-Dec-15	09-Jan-16										
	•	Cure & Strip Ground Floor Suspended Slab Pour GS03	15	21-Dec-15	09-Jan-16										
		line G-E	57	12-Dec-15	27-Feb-16										
PCB-02-2		bs (+5.450mPD) Construct Ground Floor Suspended Slab Pour GS12 - 215m ³	57	12-Dec-15	27-Feb-16										
PCB-02-2 PCB-02-2		Construct Ground Floor Suspended Slab Pour GS12 - 215m ³ Construct Ground Floor Suspended Slab Pour GS13 - 184m ³	23	12-Dec-15 14-Dec-15	12-Jan-16 13-Jan-16	-									
PCB-02-2 PCB-02-2		Construct Ground Floor Suspended Slab Pour GS13 - 184m ³ Construct Ground Floor Suspended Slab Pour GS11 - 186m ³	23	14-Dec-15 30-Dec-15	13-Jan-16 26-Jan-16	+									
PCB-02-2		Construct Ground Floor Suspended Slab Pour GS10 - 200m ³	23	26-Jan-16	27-Feb-16	_									
		-	8	21-Dec-15	31-Dec-15										
		ezzanine Slab (+10.250mPD)													
SOUTH			8	21-Dec-15	31-Dec-15										
PCB-02-2	20730	Construct Columns to Mezz Floor MS04	8	21-Dec-15	31-Dec-15										
Gridline	e K		58	06-Aug-15 A	23-Dec-15										
Gridline	K - R	C Works (5 Mega Columns)	58	06-Aug-15 A	23-Dec-15										
			45												
K3 (to +		•	45	02-Nov-15	23-Dec-15										
PCB-02-26		Break Piles to Cut Off Level (+2.08mPD) and Blind - K3	3	02-Nov-15	04-Nov-15	_									
PCB-02-26		Construct Pile Cap (Gridline K) - K3	8	05-Nov-15	13-Nov-15										
PCB-02-30		Construct Tie Beams - K3	12	14-Nov-15	27-Nov-15	_									
PCB-02-26		Construct Column Head (1st Lift) - K3	8	28-Nov-15	07-Dec-15	_									
PCB-02-26		PCB - Backfilling up to Ground Level - K3	3	08-Dec-15	10-Dec-15	_									
PCB-ZZ-46		PCB - Mega Columns K 2nd Lift - K3	8	11-Dec-15	19-Dec-15	_									
PCB-ZZ-48		Minimum Curing 3d of K3	3	21-Dec-15	23-Dec-15										
K4 (to +		•	54	06-Aug-15 A	23-Dec-15										
PCB-02-26		Break Piles to Cut Off Level (+2.08mPD) and Blind - K4	3	06-Aug-15 A	10-Aug-15 A	_									
PCB-02-26		Construct Pile Cap (Gridline K) - K4	8	27-Oct-15	04-Nov-15	_									
PCB-02-30		Construct Tie Beams - K4	12	05-Nov-15	18-Nov-15	_									
PCB-02-26		Construct Column Head (1st Lift) - K4	8	19-Nov-15	27-Nov-15										
PCB-02-26		PCB - Backfilling up to Ground Level - K4	3	28-Nov-15	01-Dec-15	_									
PCB-ZZ-46		PCB - Mega Columns K 2nd Lift - K4	8	02-Dec-15	10-Dec-15	_									
PCB-ZZ-49		Minimum Curing 3d of K4	3	21-Dec-15	23-Dec-15										
K5 (to +	⊦19.0ml	PD)	58	10-Aug-15 A	23-Dec-15										
PCB-02-26	6610	Break Piles to Cut Off Level (+2.08mPD) and Blind - K5	3	10-Aug-15 A	13-Aug-15 A										
PCB-02-26		Construct Pile Cap (Gridline K) - K5	8	16-Oct-15*	26-Oct-15							1			
PCB-02-30		Construct Tie Beams - K5	12	27-Oct-15	09-Nov-15	_									
PCB-02-26		Construct Column Head (1st Lift) - K5	8	10-Nov-15	18-Nov-15	_									
PCB-02-26		PCB - Backfilling up to Ground Level - K5	3	19-Nov-15	21-Nov-15	_									
PCB-ZZ-46		PCB - Mega Columns K 2nd Lift - K5	8	23-Nov-15	01-Dec-15										
PCB-ZZ-49		Minimum Curing 3d of K5	3	21-Dec-15	23-Dec-15										
K1 (to +	⊦19.0ml	PD)	45	23-Oct-15	14-Dec-15										
PCB-02-21	120	Break Piles to Cut Off Level (+2.08mPD) and Blind - K1	3	23-Oct-15	26-Oct-15										
PCB-02-21	125	Construct Pile Cap (Gridline K) - K1	8	27-Oct-15	04-Nov-15										
PCB-02-30	0520	Construct Tie Beams - K1	12	05-Nov-15	18-Nov-15										
PCB-02-21	185	Construct Column Head (1st Lift) - K1	8	19-Nov-15	27-Nov-15	1									
PCB-02-21	190	PCB - Backfilling up to Ground Level - K1	3	28-Nov-15	01-Dec-15										
PCB-ZZ-41	110	PCB - Mega Columns K 2nd Lift - K1	8	02-Dec-15	10-Dec-15										
PCB-ZZ-48	870	Minimum Curing 3d of K1	3	11-Dec-15	14-Dec-15										
K2 (to +	+19.0ml	PD)	45	02-Nov-15	23-Dec-15										
PCB-02-26		Break Piles to Cut Off Level (+2.08mPD) and Blind - K2	3	02-Nov-15	04-Nov-15										
PCB-02-26	6500	Construct Pile Cap (Gridline K) - K2	8	05-Nov-15	13-Nov-15	1									
PCB-02-30	0530	Construct Tie Beams - K2	12	14-Nov-15	27-Nov-15										
PCB-02-26	6510	Construct Column Head (1st Lift) - K2	8	28-Nov-15	07-Dec-15	1									
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PCB-09-182 IDEX DOC PROPER Plie 12 17-Oct-15 31-Oct-15 PCB-02-31300 BCA (A2W) - Bored Plie 24 02-Nov-15 28-Nov-15 PCB-02-31970 BCA (A2W) - Bored Plie 24 02-Nov-15 28-Nov-15 PCB-02-31960 BCA (A2W) - Bored Plie 24 30-Nov-15 29-Dec-15 PCB-02-31980 BCA (A2W) - Bored Plie 24 30-Nov-15 29-Dec-15 PCB-02-31980 BCA (A2W) - Bored Plie 24 30-Nov-15 29-Dec-15 PCB-02-31980 BCA (A2W) - Bored Plie 24 30-Nov-15 29-Dec-15 PCB-02-31980 BCA (A2W) - Bored Plie 24 30-Nov-15 29-Dec-15 PCB-02-31980 BCA (A2W) - Bored Plie 24 27-Jul-15A 29-Jan-16 PCB-03-1980 BCA (A2E & A1) Sheetpling (214m) (Bays 1A to 7) 22 27-Jul-15A 28-Sep-15A PCB-09-1900 BCA (A2E & A1) Sheetpling (120m) (Bays 1A to 5) 33 31-Aug-15A 26-Sep-15A PCB-09-1840 BCA (A1) Sheetpling (120m) (Bays 10 to 7) 12 07-Sep-15A 19-Sep-15A PCB-09-1840 BCA (A1) Sheetpling (120m) (Bays 10 to 6) 33 09-Sep-1	60 17-Oct-15 2	S=D60=13
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PCB-02-31300 BCA (A2W) - Bored Pile 24 02-Nov-15 28-Nov-15 PCB-02-31970 BCA (A2W) - Bored Pile 24 02-Nov-15 28-Nov-15 PCB-02-31980 BCA (A2W) - Bored Pile 24 30-Nov-15 29-Dec-15 PCB-02-31980 BCA (A2W) - Bored Pile 24 30-Nov-15 29-Dec-15 PCB-02-31980 BCA (A2W) - Bored Pile 24 30-Nov-15 29-Dec-15 PCB-02-31980 BCA (A2W) - Bored Pile 24 30-Nov-15 29-Dec-15 PCB-02-31980 BCA (A2W) - Bored Pile 24 30-Nov-15 29-Dec-15 PCB-02-31980 BCA (A2W) - Bored Pile 24 27-Jul-15A 29-Dec-15 PCB-02-31980 BCA (A2E BASt) 124 27-Jul-15A 29-Jan-16 Portion A1 & A 2E East 124 27-Jul-15A 28-Jan-16 Stage 1 47 27-Jul-15A 28-Jan-16 PCB-09-1090 BCA (A2E & A1) Sheetpiling (214m) (Bays 1A to 7) 22 27-Jul-15A 18-Sep-15A PCB-09-1800 BCA (A1) Sheetpiling (120m) (Bays 10 to 7) 12 07-Sep-15A 26-Sep-15A PCB-09-1840 BCA (A1) Excavation and	12 17-Oct-15* 3	31-Oct-15
PCB-02-31970 BCA (A2W) - Bored Pile 24 02-Nov-15 28-Nov-15 PCB-02-31980 BCA (A2W) - Bored Pile 24 30-Nov-15 29-Dec-15 PCB-02-31980 BCA (A2W) - Bored Pile 24 30-Nov-15 29-Dec-15 RC Structures 124 27-Jul-15A 29-Jan-16 Portion A1 & A2 East 124 27-Jul-15A 29-Jan-16 East 95 27-Jul-15A 29-Dec-15 Stage 1 47 27-Jul-15A 29-Dec-15 PCB-09-1090 BCA (A2E & A1) Sheetpiling (214m) (Bays 1A to 7) 22 27-Jul-15A 26-Sep-15A PCB-09-1100 BCA (A2E & A1) Excavation and Strutting (77m) (Bays 1A to 5) 33 31-Aug-15A 26-Sep-15A PCB-09-1100 BCA (A1) Sheetpiling (120m) (Bays 10 to 7) 22 27-Jul-15A 26-Sep-15A PCB-09-1840 BCA (A1) Sheetpiling (120m) (Bays 10 to 6) 33 09-Sep-15A 26-Sep-15A PCB-09-1840 BCA (A1) Excavation and Strutting (75m) (Bays 10 to 6) 33 09-Sep-15A 26-Sep-15A Bay 1 55 25-Sep-15A 12-Nov-15 12-Nov-15 PCB-09-1840 BCA (A1) Excavation a		
PCB-02-31960 BCA (A2W) - Bored Pile 24 30-Nov-15 29-Dec-15 PCB-02-31980 BCA (A2W) - Bored Pile 24 30-Nov-15 29-Dec-15 RC Structures 124 27-Jul-15A 29-Jan-16 Portion A1 & A2 East 124 27-Jul-15A 29-Jan-16 East 95 27-Jul-15A 29-Jan-16 FCB-09-1090 BCA (A2E & A1) Sheetpiling (214m) (Bays 1A to 7) 22 27-Jul-15A 29-Jan-15A PCB-09-1100 BCA (A2E & A1) Sheetpiling (214m) (Bays 1A to 7) 22 27-Jul-15A 26-Sep-15A PCB-09-1100 BCA (A2E & A1) Sheetpiling (214m) (Bays 1A to 5) 33 31-Aug-15A 26-Sep-15A Stage 1 52 52 07-Sep-15A 28-Sep-15A 26-Sep-15A PCB-09-1100 BCA (A1) Sheetpiling (120m) (Bays 10 to 7) 12 07-Sep-15A 28-Sep-15A 28-Sep-15A PCB-09-1840 BCA (A1) Excavation and Strutting (75m) (Bays 10 to 6) 33 09-Sep-15A 19-Sep-15A 19-Sep-15A PCB-09-1840 BCA (A1) Excavation and Strutting (75m) (Bays 10 to 6) 33 09-Sep-15A <th< td=""><td></td><td></td></th<>		
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PCB-09-1090 BCA (A2E & A1) Sheetpiling (214m) (Bays 1A to 7) 22 27-Jul-15A 18-Sep-15A PCB-09-1100 BCA (A2E & A1) Excavation and Strutting (77m) (Bays 1A to 5) 33 31-Aug-15A 26-Sep-15A Stage 2 52 07-Sep-15A 26-Sep-15A PCB-09-1830 BCA (A1) Sheetpiling (120m) (Bays 10 to 7) 12 07-Sep-15A 19-Sep-15A PCB-09-1840 BCA (A1) Excavation and Strutting (75m) (Bays 10 to 6) 33 09-Sep-15A 26-Sep-15A Bay 1 35 25-Sep-15A 12-Nov-15 PCB-XX-840 Complete Blinding to Bay 1 1 25-Sep-15A 25-Sep-15A PCB-XX-860 Complete Bay 1 Baseslab 4 05-Oct-15* 09-Oct-15 PCB-XX-860 Complete Bay 1 Baseslab 8 13-Oct-15* 23-Oct-15	47 27-Jul-15 A 26	5-Sep-15 A
Stage 2 52 07-Sep-15A 26-Sep-15A PCB-09-1830 BCA (A1) Sheetpiling (120m) (Bays 10 to 7) 12 07-Sep-15A 19-Sep-15A PCB-09-1840 BCA (A1) Excavation and Strutting (75m) (Bays 10 to 6) 33 09-Sep-15A 26-Sep-15A Bay 1 35 25-Sep-15A 12-Nov-15 12-Nov-15 PCB-XX-840 Complete Blinding to Bay 1 1 25-Sep-15A 25-Sep-15A PCB-XX-850 Complete Pile Caps to Bay 1 4 05-Oct-15* 09-Oct-15 PCB-XX-860 Complete Bay 1 Baseslab 8 13-Oct-15* 23-Oct-15	22 27-Jul-15 A 18	3-Sep-15 A
Stage 2 52 07-Sep-15A 26-Sep-15A PCB-09-1830 BCA (A1) Sheetpiling (120m) (Bays 10 to 7) 12 07-Sep-15A 19-Sep-15A PCB-09-1840 BCA (A1) Excavation and Strutting (75m) (Bays 10 to 6) 33 09-Sep-15A 26-Sep-15A Bay 1 35 25-Sep-15A 12-Nov-15 12-Nov-15 PCB-XX-840 Complete Blinding to Bay 1 1 25-Sep-15A 25-Sep-15A PCB-XX-850 Complete Pile Caps to Bay 1 4 05-Oct-15* 09-Oct-15 PCB-XX-860 Complete Bay 1 Baseslab 8 13-Oct-15* 23-Oct-15		
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PCB-09-1840 BCA (A1) Excavation and Strutting (75m) (Bays 10 to 6) 33 09-Sep-15 A 26-Sep-15 A Bay 1 35 25-Sep-15 A 12-Nov-15 PCB-XX-840 Complete Blinding to Bay 1 1 25-Sep-15 A 25-Sep-15 A PCB-XX-850 Complete Pile Caps to Bay 1 4 05-Oct-15* 09-Oct-15 PCB-XX-860 Complete Bay 1 Baseslab 8 13-Oct-15* 23-Oct-15		3-Sep-15 A
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PCB-XX-860 Complete Bay 1 Baseslab 8 13-Oct-15*		
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	1 25-Sep-15 A 25 4 05-Oct-15* 0	'3-Oct-15
Remaining Work	1 25-Sep-15 A 25 4 05-Oct-15* 0	23-Oct-15 THREE MONTH ROLLING PRC
Actual Work	24 30-Nov-15 24 30-Nov-15 124 27-Jul-15 A 124 27-Jul-15 A 95 27-Jul-15 A 22 27-Jul-15 A 133 31-Aug-15 A 52 07-Sep-15 A 12 07-Sep-15 A	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

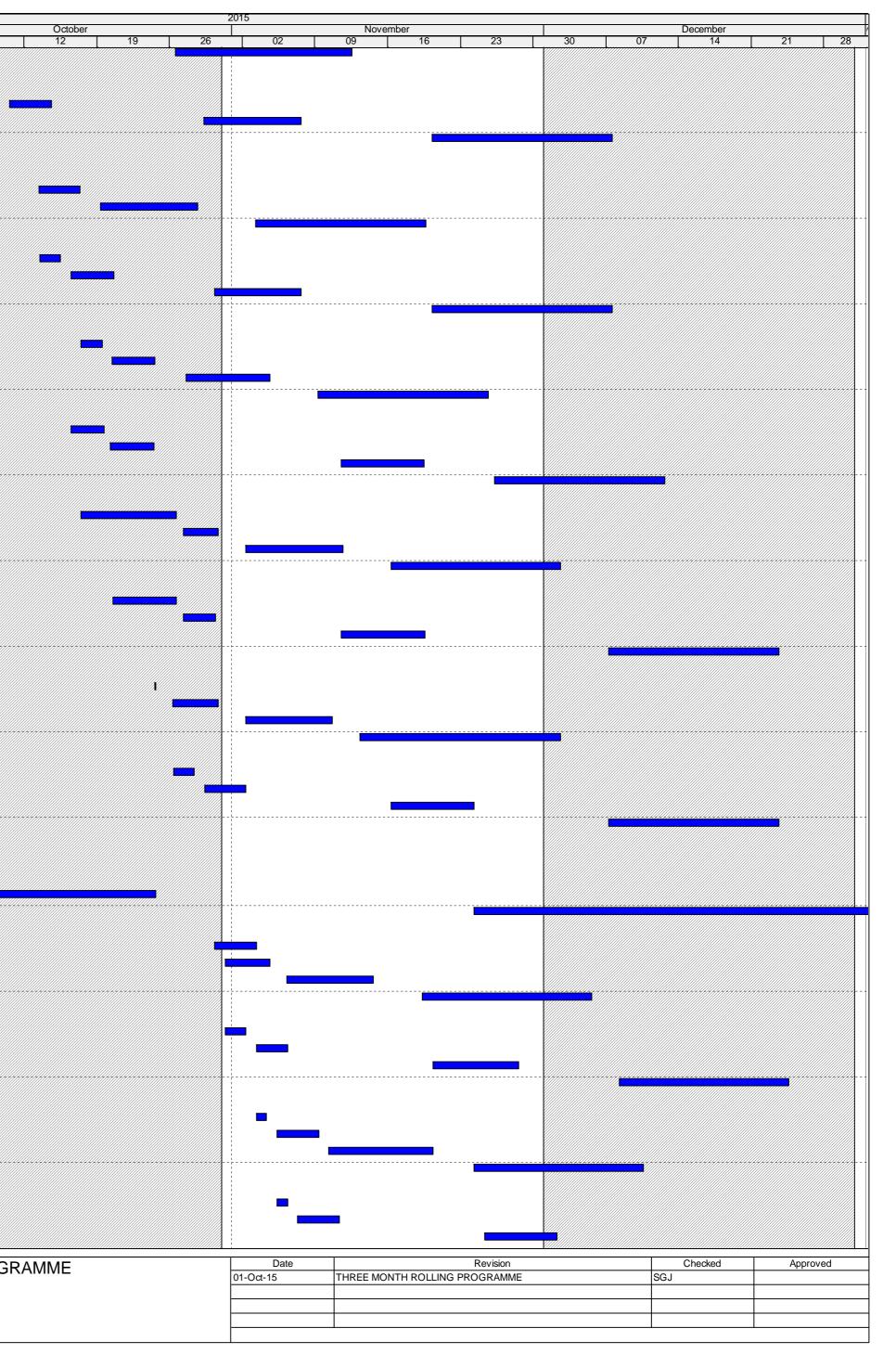
♦ ♦ Milestone

October	2015	November			December	
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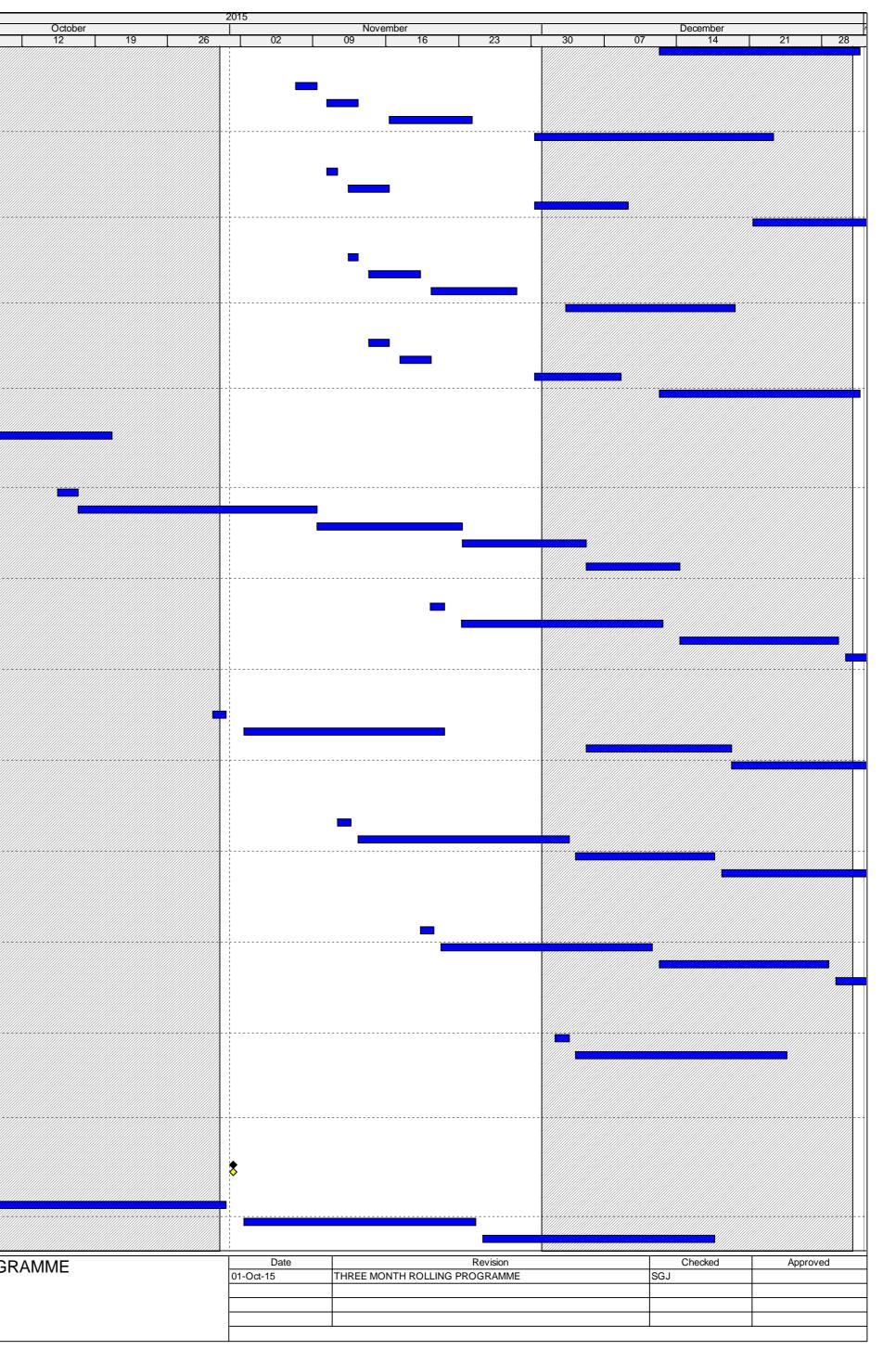
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RAMME	Date 01-Oct-15	THREE MONTH ROLLING PF	Revision		Checked SGJ	Approved
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PCB-XX-870 Bay 2 PCB-XX-800	Complete wall and Top Slab Bay 1	15	26-Oct-15*	12-Nov-15	31	07	14	21		28	L
PCB-XX-800		56			-						
		50	26-Sep-15 A	07-Dec-15							
	Complete Blinding to Bay 2	1	26-Sep-15 A	26-Sep-15 A	1			I			
PCB-XX-810	Complete Pile Caps to Bay 2	3	10-Oct-15*	14-Oct-15							
PCB-XX-820	Complete Bay 2 Baseslab	9	29-Oct-15*	07-Nov-15							
PCB-XX-830	Complete wall and Top Slab Bay 2	15	20-Nov-15	07-Dec-15							
Bay 3		41	29-Sep-15 A	19-Nov-15							
PCB-XX-790	Complete Blinding to Bay 3	1	29-Sep-15 A	29-Sep-15 A					I		
PCB-XX-750	Complete Pile Caps to Bay 3	4	13-Oct-15*	17-Oct-15							
PCB-XX-760	Complete Bay 3 Baseslab	8	19-Oct-15	28-Oct-15							
PCB-XX-770	Complete wall and Top Slab Bay 3	15	03-Nov-15*	19-Nov-15							
Bay 4		47	13-Oct-15	07-Dec-15							
PCB-XX-780	Complete Blinding to Bay 4	2	13-Oct-15*	15-Oct-15							
PCB-XX-720	Complete Pile Caps to Bay 4	4	16-Oct-15*	20-Oct-15	_						
PCB-XX-730	Complete Bay 4 Baseslab	8	30-Oct-15*	07-Nov-15							
PCB-XX-740	Complete wall and Top Slab Bay 4	15	20-Nov-15	07-Dec-15	_						
Bay 5		33	17-Oct-15	25-Nov-15							
PCB-XX-0610	Complete Blinding to Bay 5	1	17-Oct-15*	19-Oct-15							
PCB-XX-0620	Complete Pile Caps to Bay 5	3	20-Oct-15*	24-Oct-15							
PCB-XX-0630	Complete Bay 5 Baseslab	7	27-Oct-15*	04-Nov-15							
PCB-XX-0640	Complete wall and Top Slab Bay 5	15	09-Nov-15*	25-Nov-15							
Bay 6		49	16-Oct-15	12-Dec-15							
PCB-XX-1040	Complete Blinding to Bay 6	3	16-Oct-15*	19-Oct-15							
PCB-XX-1050	Complete Pile Caps to Bay 6	4	20-Oct-15	24-Oct-15							
PCB-XX-1060	Complete Bay 6 Baseslab	7	11-Nov-15*	19-Nov-15							
PCB-XX-1070	Complete wall and Top Slab Bay 6	15	26-Nov-15*	12-Dec-15							
Bay 7		39	17-Oct-15	02-Dec-15							
PCB-XX-1000	Complete Blinding to Bay 7	7	17-Oct-15*	26-Oct-15							
PCB-XX-1010	Complete Pile Caps to Bay 7	4	27-Oct-15	30-Oct-15							
PCB-XX-1020	Complete Bay 7 Baseslab	9	02-Nov-15*	11-Nov-15							
PCB-XX-1030	Complete wall and Top Slab Bay 7	15	16-Nov-15*	02-Dec-15							
Bay 8		54	20-Oct-15	23-Dec-15							
PCB-XX-960	Complete Blinding to Bay 8	4	20-Oct-15*	26-Oct-15	1						
PCB-XX-970	Complete Pile Caps to Bay 8	3	27-Oct-15	30-Oct-15							
PCB-XX-980	Complete Bay 8 Baseslab	7	11-Nov-15*	19-Nov-15							
PCB-XX-990	Complete wall and Top Slab Bay 8	15	07-Dec-15	23-Dec-15							
Bay 9		33	24-Oct-15	02-Dec-15							
PCB-XX-920	Complete Blinding to Bay 9	0	24-Oct-15*	24-Oct-15	1						
PCB-XX-930	Complete Pile Caps to Bay 9	5	26-Oct-15	30-Oct-15	-						
PCB-XX-940	Complete Bay 9 Baseslab	8	02-Nov-15*	10-Nov-15	_						
PCB-XX-950	Complete wall and Top Slab Bay 9	17	13-Nov-15*	02-Dec-15	1						
Bay 10		51	26-Oct-15	23-Dec-15							
PCB-XX-880	Complete Blinding to Bay 10	2	26-Oct-15*	28-Oct-15	1						
PCB-XX-890	Complete Pile Caps to Bay 10	3	29-Oct-15*	02-Nov-15	_						
PCB-XX-900	Complete Bay 10 Baseslab	7	16-Nov-15*	24-Nov-15	-						
PCB-XX-910	Complete wall and Top Slab Bay 10	15	07-Dec-15*	23-Dec-15							
West		108	07-Sep-15 A	29-Jan-16							
Stage 3		108	07-Sep-15 A	29-Jan-16							
PCB-09-1600	BCA (A1) Sheetpiling (300m) (Bays 11 to 20)	30	07-Sep-15 A	23-Sep-15 A	1 💻						
PCB-09-1620	BCA (A1) Excavation (150m) (Bays 11 to 20)	30	19-Sep-15 A	24-Oct-15	-						
PCB-09-1170	BCA (A1) Backfilling to Ground Level (150m) (Bays 11 to 20)	55	24-Nov-15	29-Jan-16	1						
Bay 11		32	30-Oct-15	05-Dec-15							
PCB-XX-1080	Complete Blinding to Bay 11	3	30-Oct-15	03-Nov-15*							
PCB-XX-1090	Complete Pile Caps to Bay 11	4	31-Oct-15*	04-Nov-15	-						
PCB-XX-1100	Complete Bay 11 Baseslab	8	06-Nov-15	14-Nov-15							
PCB-XX-1110	Complete wall and Top Slab Bay 11	15	19-Nov-15*	05-Dec-15							
Bay 12	· · · · · · · · · · · · · · · · · · ·	47	31-Oct-15	24-Dec-15	1						
PCB-XX-1120	Complete Blinding to Bay 12	1	31-Oct-15	02-Nov-15*							
PCB-XX-1120 PCB-XX-1130	Complete Pile Caps to Bay 12	3	03-Nov-15	02-100-15 06-Nov-15	-						
PCB-XX-1130 PCB-XX-1140	Complete Bay 12 Baseslab	8	20-Nov-15*	28-Nov-15	-						
PCB-XX-1140 PCB-XX-1150	Complete wall and Top Slab Bay 12	15	20-100-15 08-Dec-15*	28-NOV-15 24-Dec-15							
		33	03-Nov-15	10-Dec-15							
Bay 13	Complete Rlinding to Ray 12	33 1									
PCB-XX-1160 PCB-XX-1170	Complete Blinding to Bay 13 Complete Pile Caps to Bay 13	3	03-Nov-15 05-Nov-15	04-Nov-15* 09-Nov-15	-						
PCB-XX-1170 PCB-XX-1180	Complete Bay 13 Baseslab	9	10-Nov-15	20-Nov-15	-						
	Complete Bay 13 Basesiab Complete wall and Top Slab Bay 13				+						
PCB-XX-1190		15	24-Nov-15*	10-Dec-15							
Bay 14	Complete Dinding to Day 44	47	05-Nov-15	31-Dec-15							
PCB-XX-1200	Complete Blinding to Bay 14	1	05-Nov-15	06-Nov-15*							
PCB-XX-1210	Complete Pile Caps to Bay 14	3	07-Nov-15	11-Nov-15	-						
PCB-XX-1220	Complete Bay 14 Baseslab	6	25-Nov-15*	02-Dec-15							<u>/////////////////////////////////////</u>
Actual Work							THPP	E MONTI			; P
Actual WORK				1							~ '
Remaining Work	k										

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	Activity Name	Original Duration	Start	Finish	21	September		,]	00
PCB-XX-1230	Complete wall and Top Slab Bay 14	15	12-Dec-15*	31-Dec-15	31 07	7 [14	21	2	28
Bay 15		39	07-Nov-15	23-Dec-15					
PCB-XX-1240	Complete Blinding to Bay 15	1	07-Nov-15	09-Nov-15*					
PCB-XX-1250	Complete Pile Caps to Bay 15	3	10-Nov-15	13-Nov-15	_				
PCB-XX-1250	Complete Bay 15 Baseslab	7	16-Nov-15	24-Nov-15	-				
PCB-XX-1200	Complete bay 15 basesiab Complete wall and Top Slab Bay 15	20	30-Nov-15*	23-Dec-15					
Bay 16		52	10-Nov-15	13-Jan-16					
PCB-XX-1280	Complete Blinding to Bay 16	1	10-Nov-15	11-Nov-15*	1				
PCB-XX-1200	Complete Pile Caps to Bay 16	3	12-Nov-15	16-Nov-15	-				
PCB-XX-1300	Complete Bay 16 Baseslab	8	30-Nov-15*	09-Dec-15	-				
PCB-XX-1310	Complete wall and Top Slab Bay 16	17	21-Dec-15*	13-Jan-16					
Bay 17		33	12-Nov-15	19-Dec-15					
PCB-XX-1320	Complete Blinding to Bay 17	1	12-Nov-15	13-Nov-15*					
PCB-XX-1330	Complete Pile Caps to Bay 17	4	14-Nov-15	19-Nov-15	_				
PCB-XX-1340	Complete Bay 17 Baseslab	8	20-Nov-15	28-Nov-15	_				
PCB-XX-1350	Complete wall and Top Slab Bay 17	15	03-Dec-15*	19-Dec-15					
Bay 18		39	14-Nov-15	31-Dec-15					
PCB-XX-1360	Complete Blinding to Bay 18	1	14-Nov-15	16-Nov-15*					
PCB-XX-1370	Complete Pile Caps to Bay 18	3	17-Nov-15	20-Nov-15	_				
PCB-XX-1380	Complete Bay 18 Baseslab	8	30-Nov-15	08-Dec-15	_				
PCB-XX-1390	Complete wall and Top Slab Bay 18	15	12-Dec-15*	31-Dec-15	1			••••••	
	tilities Enclosure	107	09-Oct-15	22-Feb-16					
B-9A-130	CUE - Excavation and ELS for Common Utilities Enclosure BAy 1-6	10	09-Oct-15*	20-Oct-15	_				
B-9A-170	CUE - Backfilling Bay 1-6	24	04-Jan-16*	30-Jan-16					
ay 2		50	15-Oct-15	14-Dec-15					
CB-9A-190	CUE - Blinding Bay 2	2	15-Oct-15	17-Oct-15]				
B-9A-280	CUE - Construct Base Slab of Bay 1	18	17-Oct-15	09-Nov-15					
B-9A-290	CUE - Construct external/internal walls to Bay 1	12	09-Nov-15	23-Nov-15					
B-9A-300	CUE - Construct Top slab of Bay 1	11	23-Nov-15	05-Dec-15					
B-9A-310	CUE - Curing and Waterproofing to Bay 1	7	05-Dec-15	14-Dec-15	_				
iy 1		50	20-Nov-15	20-Jan-16					
					_				
B-9A-490	CUE - Blinding Bay 1	2	20-Nov-15	21-Nov-15*	_				
B-9A-240	CUE - Construct Base Slab of Bay 2	18	23-Nov-15	12-Dec-15	_				
CB-9A-250 CB-9A-260	CUE - Construct external/internal walls to Bay 2	12	14-Dec-15	29-Dec-15	_				
B-9A-260 B-9A-270	CUE - Construct Top slab of Bay 2	11 7	30-Dec-15 13-Jan-16	12-Jan-16 20-Jan-16					
	CUE - Apply Waterproofing to Bay 2	57	30-Oct-15	20-Jan-16 08-Jan-16					
ay 3		57	30-Oct-15	00-Jan-10					
B-9A-200	CUE - Blinding Bay 3	2	30-Oct-15	31-Oct-15*	_				
B-9A-320	CUE - Construct Base Slab of Bay 3	18	02-Nov-15	21-Nov-15	_				
B-9A-330	CUE - Construct external/internal walls to Bay 3	12	05-Dec-15	19-Dec-15					
B-9A-340	CUE - Construct Top slab of Bay 3	11	19-Dec-15	05-Jan-16	_				
B-9A-350	CUE - Apply Waterproofing to Bay 3	3	05-Jan-16	08-Jan-16					
ay 4		46	11-Nov-15	06-Jan-16					
B-9A-210	CUE - Blinding Bay 4	2	11-Nov-15	12-Nov-15*					
B-9A-360	CUE - Construct Base Slab of Bay 4	18	13-Nov-15	03-Dec-15	-				
B-9A-370	CUE - Construct external/internal walls to Bay 4	12	04-Dec-15	17-Dec-15					
B-9A-380	CUE - Construct Top slab of Bay 4	11	18-Dec-15	02-Jan-16	1				
B-9A-390	CUE - Apply Waterproofing to Bay 4	3	04-Jan-16	06-Jan-16	1				
iy 5		46	19-Nov-15	14-Jan-16					
B-9A-220	CUE - Blinding Bay 5	2	19-Nov-15	20-Nov-15*					
B-9A-220	CUE - Construct Base Slab of Bay 5	18	21-Nov-15	11-Dec-15					
B-9A-410	CUE - Construct external/internal walls to Bay 5	10	12-Dec-15	28-Dec-15	-				
B-9A-410	CUE - Construct Top slab of Bay 5	11	29-Dec-15	11-Jan-16	-				
B-9A-430	CUE - Apply Waterproofing to Bay 5	3	12-Jan-16	14-Jan-16	-				
		62	02-Dec-15	22-Feb-16					
ny 6		ļ							
B-9A-230	CUE - Blinding Bay 6	2	02-Dec-15	03-Dec-15*	_				
B-9A-440	CUE - Construct Base Slab of Bay 6	18	04-Dec-15	24-Dec-15	_				
B-9A-450	CUE - Construct external/internal walls to Bay 6	12	12-Jan-16	25-Jan-16	_				
B-9A-460	CUE - Construct Top slab of Bay 6	11	26-Jan-16	06-Feb-16	_				
B-9A-470	CUE - Apply Waterproofing to Bay 6	3	15-Feb-16	17-Feb-16					
B-9A-480	CUE - Apply Waterproofing to Bay 5	7	15-Feb-16	22-Feb-16					
awater Pu	ump House	168	03-Oct-15	28-Apr-16					
3-13A-0500	Commencement of Seawater Pumpstation	0	01-Nov-15*						
ling		168	03-Oct-15	28-Apr-16					
B-13A-740	SWP - Additional Predrilling works	24	03-Oct-15	31-Oct-15					
B-13A-740 B-13A-110	SWP - Additional Predrilling works SWP - Prebored socket H-piles (1 to 10) x 2 rigs	24	03-0d-15 02-Nov-15	24-Nov-15					
B-13A-110 B-13A-500	SWP - Prebored socket H-piles (1 to 10) x 2 rigs SWP - Prebored socket H-piles (11 to 20) x 2 rigs	20	02-Nov-15 25-Nov-15	17-Dec-15	_				
10A-000	Sivit - Frebored Souker m-piles (11 to 20) x 2 figs	20	20-1100-15	-Dec-15					
Actual Work						THF	REE MON	TH ROL	LING
Actual WORK									
Remaining Worl									
	ng Work							Page	6 of 7



Activity ID	Activity Name	Original	Start	Finish									2	2015								
		Duration					September				October				Nov	ember				December		1
					31	07	14	21	28	05	12	19	26	02	09	16	23	30	07	14	21	28
PCB-13A-510	SWP - Prebored socket H-piles (21 to 30) x 2 rigs	20	18-Dec-15	13-Jan-16				-							•							
PCB-13A-520	SWP - Prebored socket H-piles (31 to 40) x 2 rigs	20	14-Jan-16	05-Feb-16																		
PCB-13A-720	SWP - Prebored socket H-piles (41 to 50) x 2 rigs	20	06-Feb-16	07-Mar-16										1								
PCB-13A-730	SWP - Prebored socket H-piles (51 to 66) x 2 rigs	32	08-Mar-16	14-Apr-16										 								
PCB-13A-120	SWP - Socketed H-Piles Load Testing	12	15-Apr-16	28-Apr-16										1 1 1								

Actual Work	THREE MONTH ROLLING PROGRAMME	Date	Revision	Checked	Approved
Actual Work		01-Oct-15	THREE MONTH ROLLING PROGRAMME	SGJ	
Remaining Work					
Remaining Work Critical Remaining Work	Page 7 of 7				
♦ ♦ Baseline Milestone					
♦ ♦ Milestone					1



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

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

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



APPENDIX E

Waste Flow Table

Name of Department: Highways Department

Contract No.: HY/2013/01



Monthly Summary Waste Flow Table for 2015

	Actua	al Quantities	of Inert C&D	Materials G	enerated Mo	nthly	Actual C	Quantities of	C&D Wastes	s 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	24.799	0.000	0.000	12.018	12.781	0.000	29.910	0.314	0.000	1.440	0.044
February	12.073	0.000	0.000	5.159	6.914	0.000	20.850	0.473	0.003	0.000	0.022
March	15.990	0.000	0.000	4.489	11.501	0.000	90.810	0.673	0.000	2.400	0.047
April	7.596	0.000	0.000	1.606	5.990	0.000	79.070	0.669	0.000	0.000	0.066
May	14.012	0.000	3.608	6.521	3.883	0.000	8.630	0.000	0.000	2.560	0.048
June	58.988	0.000	0.010	56.981	1.997	0.000	154.600	0.586	0.000	0.000	0.057
Sub-total	133.458	0.000	3.618	86.774	43.066	0.000	383.870	2.715	0.003	6.400	0.284
July	28.566	0.000	0.000	27.504	1.062	0.000	49.660	0.912	0.000	0.000	0.044
August	40.872	2.038	0.000	37.956	2.916	0.000	58.210	0.840	0.000	1.120	0.103
September	72.653	2.109	0.000	70.353	2.300	0.000	47.380	0.880	0.000	0.000	0.074
October											
November											
December											
Total	275.549	4.147	3.618	222.587	49.344	0.000	539.120	5.347	0.003	7.520	0.505

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/2013/01



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:

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in-situ: rock = 2.5 tonnes/m<sup>3</sup>; soil = 2.0 tonnes/m<sup>3</sup>
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excavated: rock = 2.0 tonnes/m<sup>3</sup>; soil = 1.8 tonnes/m<sup>3</sup>; broken concrete and bitumen = 2.4 tonnes/m<sup>3</sup>
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C&D Waste = 0.9 tonnes/m<sup>3</sup>; bentonite slurry = 2.8 tonnes/m<sup>3</sup>
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Diesel density: 0.8kg/l

- (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

page 2



APPENDIX F

Environmental Licenses and Permits

Environmental License/ Permits /Notification Register

Contract No. HY/2013/01 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities - Passenger Clearance Building

							Date : Septe	mber 2015	
Item No.	Permit/License or Registration Application		Permit/License/ Notification/ Registration	Permit/License/ Registration Number	lssue/Start Date	Expiry Date	Issuing Office	Remark	
	Work Area	Date	Reference	Description					
1.	All Areas	29 Jul 13	N/A	Environmental Permit to construct the Passenger Clearance Building and associated works of the Hong Kong Zhuhai and Macao Bridge Boundary Crossing Facilities	EP-353/2009/G	06 Aug 13	N/A	EPD	Superseded by EP-353/2009/H
2.	All Areas	16 Jan 15	N/A	Environmental Permit to construct the Passenger Clearance Building and associated works of the Hong Kong Zhuhai and Macao Bridge Boundary Crossing Facilities	EP-353/2009/H	19 Jan 15	N/A	EPD	Superseded by EP-353/2009/I
3.	All Areas	30 Jun 15	N/A	Environmental Permit to construct the Passenger Clearance Building and associated works of the Hong Kong Zhuhai and Macao Bridge Boundary Crossing Facilities	EP-353/2009/I	17 Jul 15	N/A	EPD	
4.	All Areas	29 Apr 14	H2620-LTR-EPD- AU-000006	Billing Account for disposal of construction waste	Billing Account No.: 7019944	16 May 14	N/A	EPD	

LEIGHTON (後和 Leighton - Chun Wo Joint Venture

Environmental License/ Permits /Notification Register

Contract No. HY/2013/01 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities - Passenger Clearance Building

							Date : Septe	mber 2015	
ltem No.				Permit/License/ Notification/ Registration	Permit/License/ Registration Number	lssue/Start Date	Expiry Date	Issuing Office	Remark
110.	Work Area	Date	Reference	Description	negistration Number	Date	Duit		
5.	PCB	30 Apr 14	H2620-LTR- EPD- 000002	Notification that notifiable works are anticipated to commence (Form NA).	Acknowledge Receipt Ref. No. 373961	05 May 14	N/A	EPD	
6.	WA2	30 Apr 14	H2620-LTR- EPD- 000003	Notification that notifiable works are anticipated to commence (Form NA).	Acknowledge Receipt Ref. No. 373956	05 May 14	N/A	EPD	
7.	WA3	30 Apr 14	H2620-LTR-EPD- AU-000001	Notification that notifiable works are anticipated to commence (Form NA).	Acknowledge Receipt Ref. No. 373962	05 May 14	N/A	EPD	
8.	РСВ	30 May 14	H2620-LTR-EPD- AU-000020	Registration as Chemical Waste Producer for disposal of spent batteries, used lubrication oil and surplus paint at PCB area	WPN: 5213-951-L2846-01	08 Jul 14	N/A	EPD	

LEIGHTON 後 和 Leighton - Chun Wo Joint Venture

Environmental License/ Permits /Notification Register

Contract No. HY/2013/01 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities - Passenger Clearance Building

				-			Date : Septe	mber 2015	
ltem No.	Perm Work Area	nit/License o Applica Date	r Registration ation Reference	Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
9.	РСВ	23 Jun 14	In H2620-LTR- EPD-000017	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0683-14	03 Jul 14	29 Dec 14	EPD	Superseded by GW-RS0908-14
10.	WA2	02 Jul 14	H2620-LTR-LCJ- AU-000280	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out ER Office construction works from 19:00 to 23:00. (Non-designated area)	GW-RS0715-14	17 Jul 14	15 Jan 15	EPD	Superseded by GW-RS1034-14
11.	WA3	02 Jul 14	H2620-LTR-LCJ- AU-000324	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out construction of JV site office from 19:00 to 23:00. (Non-designated)	GW-RS0716-14	17 Jul 14	15 Jan 15	EPD	Expired



Environmental License/ Permits /Notification Register

Contract No. HY/2013/01 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities - Passenger Clearance Building

							Date : Septe	mber 2015	
ltem No.	Permit/License or RegistrationApplicationWork AreaDateReference		Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark	
12.	РСВ	23 Jun 14	H2620-LTR- EPD- 000527	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0908-14	03 Sep 14	22 Dec 14	EPD	Superseded by GW-RS1044-14
13.	РСВ	15 Sep 14	H2620-LTR-EPD- AU-000034	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS1044-14	29 Sep 14	24 Dec 14	EPD	Superseded by GW-RS1300-14
14.	WA2	12 Sep 14	H2620-LTR-EPD- AU-000032	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out ER Office construction works from 19:00 to 23:00. (Non-designated area)	GW-RS1034-14	29 Sep 14	28 Mar 15	EPD	Expired
15.	WA4	17 Oct 14	H2620-LTR-EPD- AU-000036	<u>CNP</u> for the use of powered mechanical equipment from 19:00 to 23:00. (Non-designated area)	GW-RW0814-14	20 Oct 14	19 Apr 15	EPD	Superseded by GW-RW0171-15



Environmental License/ Permits /Notification Register

Contract No. HY/2013/01 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities - Passenger Clearance Building

	-						Date : Septe	mber 2015	
ltem No.	Perm Work Area	hit/License o Applica Date	r Registration ation Reference	Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
16.	PCB	03 Nov 14	H2620-LTR-EPD- AU-000040	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS1300-14	17 Nov 14	16 Feb 15	EPD	Superseded by GW-RS0087-15
17.	PCB	12 Jan 15	H2620-LTR-EPD- AU-000046	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0087-15	26 Jan 15	25 Apr 15	EPD	Superseded by GW-RS0308-15
18.	РСВ	12 Mar 15	H2620-LTR-EPD- AU-000051	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0308-15	26 Mar 15	25 Jun 15	EPD	Superseded by GW-RS0476-15
19.	РСВ	31 Jul 14	H2620-LTR-EPD- AU-000038	Water Discharge License for construction works on PCB island	WT00020335-2014	13 Nov 14	30 Nov 19	EPD	



Environmental License/ Permits /Notification Register

Contract No. HY/2013/01 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities - Passenger Clearance Building

							Date : Septe	mber 2015	
Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration	Permit/License/ Registration Number	Issue/Start	ssue/Start Expiry Date Date	Issuing Office	Remark
110.	Work Area	Date	Reference	Description	negistration Number	Date	Date		
20.	WA4	27 Mar 15	H2620-LTR-EPD- AU-000054	<u>CNP</u> for the use of powered mechanical equipment from 19:00 to 23:00. (Non-designated area)	GW-RW0171-15	20 Apr 15	19 Oct 15	EPD	Superseded by GW-RW0351-15
21.	РСВ	15 Apr 15	H2620-LTR-EPD- AU-000057	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0476-15	1 May 15	31 July 15	EPD	Superseded by GW-RS0685-15
22.	РСВ	9 Jun 15	H2620-LTR-EPD- EN-000063	<u>CNP</u> 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-RS0685-15	1 Jul 15	30 Sep 15	EPD	Superseded by GW-RS0877-15
23.	WA4	29 Jun 15	H2620-LTR-EPD- AU-000066	<u>CNP</u> for the use of powered mechanical equipment from 19:00 to 23:00. (Non-designated area)	GW-RW0351-15	17 Jul 15	12 Jan 16	EPD	



Contract No. HY/2013/01 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities - Passenger Clearance Building

							Date : Septe	mber 2015	
Item	Permit/License or Registration Application		Permit/License/ Notification/	Permit/License/	Issue/Start	Expiry	Issuing Office	Remark	
No.	Work Area	Date	Reference	Registration Description	Registration Number	Date	Date		
24.	PCB	27 Jul 15	H2620-LTR-EPD- AU-000069	CNP 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-RS0877-15	10 Aug 15	9 Nov 15	EPD	Superseded by GW-RS1016-15
25.	РСВ	16 Sep 15	H2620-LTR-EPD- EN-000072	CNP 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-RS1016-15	18 Sep 15	17 Dec 15	EPD	

Environmental License/ Permits /Notification Register

LEIGHTON Ѡ 俊和 Leighton - Chun Wo Joint Venture



APPENDIX G

Implementation Schedule for Environmental Mitigation Measures (EMIS)

Contract No. HY/2013/01 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities – Passenger Clearance Building

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	 The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation 	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
S5.5.6.2	A2	 Proper watering of exposed spoil should be undertaken throughout the construction phase: Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones. The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing tackes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; 	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

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	 When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials; Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding; Any skip hoist for material transport should be totally enclosed by impervious sheeting; Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides; 	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	 Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; Loading, unloading, transfer, handling or storage of bulk 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 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. 	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	1
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	 Air Pollution Control (Construction Dust) Regulation 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) 	√ (The dust monitoring works under EM&A programme for the Contract are covered by Contract No. HY/2010/02 and Contract No. HY/2011/03.)

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	 The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant: Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system; All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP; Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system; The materials which may generate airborne dusty emissions should be wetted by water spray system; All receiving hoppers should be enclosed on three sides up to 3m above unloading point; All conveyor transfer points should be totally enclosed; All access and route roads within the premises should be paved and wetted; and Vehicle cleaning facilities should be provided and used by all concrete trucks before leaving the premises to wash off any dust on the wheels and/or body. 	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	 Air Pollution Control (Construction Dust) Regulation 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) 	N/A
S5.5.2.7	A7	 The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point: All road surface within the barging facilities will be paved; Dust enclosures will be provided for the loading ramp; Vehicles will be required to pass through designated wheels wash facilities; and Continuous water spray at the loading points. 	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
	-	(Air borne)						
S6.4.10	N1	 Use of good site practices to limit noise emissions by considering the following: only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; mobile plant should be sited as far away from NSRs as possible and practicable; material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 	Control construction airborne noise by means of good site practices	Contractor	All construction sites	Construction stage	Noise Control Ordinance	
S6.4.11	N2	 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. 	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	 Install movable noise barriers (typically density @14kg/m²), 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	 Noise Control Ordinance Annex 5, TM- EIA 75dB(A) for residential premises The movable barrier should achieve at least 5dB(A) and the full enclosure should be 	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	 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	 Noise Control Ordinance & its TM Annex 5, TM- EIA 	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	 Noise Control Ordinance Annex 5, TM- EIA 	V
/	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	 Noise Control Ordinance Annex 5, TM- EIA 75dB(A) for residential premises 	√ (The noise monitoring works under EM&A programme for the Contract are covered by Contract No. HY/2010/02.)
Sediment		L				1		1
S7.3	S1	 The requirements as recommended in ETWB TC 34/2002 Management of Dredged/Excavated Sediment shall be included in the Particular Specification as appropriate. 	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 Mana	agement (Construction Waste)						
S8.3.8	WM1	 Construction and Demolition Material The following mitigation measures should be implemented in handling the waste: Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; Carry out on-site sorting; Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; Adopt 'Selective Demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible; Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and Implement an enhanced Waste Management Plan similar to ETW BTC (Works) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction. In addition, disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation. 	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	 <u>C&D Waste</u> Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage. The Contractor should recycle as much of the C&D materials as 	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
		possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage.						
\$8.2.12- \$8.3.15	WM3	 <u>Chemical Waste</u> Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation. The storage area for chemical wastes should be clearly 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 	Control the chemical waste and ensure proper storage, handling and disposal.	Contractor	All construction sites	Construction stage	 Waste Disposal (Chemical Waste) General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste 	
		incompatible materials are adequately separated.						

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
		 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. 						V
S8.3.16	WM4	 <u>Sewage</u> 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. 	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	 General Refuse General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law. Aluminium cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible. Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor. In addition, waste separation facilities for paper, aluminum cans, plastic bottles etc., should be provided. Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes. 	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)						
Water Qual	W2	 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: wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters; sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the W PCO or collected for disposal offsite. The use of soakaways shall be avoided; storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks; silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm; temporary access roads should be surfaced with crushed stone or gravel; 	To control construction water quality	Contractor	Land-based works areas	Construction stage	TM-EIAO	N
		 rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities; measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system; open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms; manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers; discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system; 						

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	M-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 (C	onstructio	n Phase)						
S10.7	E4	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	Prevent Sedimentation from Land-based works areas	Contractor	Land-based works areas	During construction	TM-Water	V
S10.7	E5	Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time	Prevent disturbance to terrestrial fauna and habitats	Contractor	Land-based works areas	During construction		V
S10.7	E8	 Control vessel speed Skipper training Predefined and regular routes for working vessels; avoid Brother Islands. 	Minimise marine traffic disturbance on dolphins	Contractor	Marine Traffic	During construction		N/A
Fisheries								
S11.7	F4	 Maritime Oil Spill Response Plan (MOSRP); Contingency plan. 	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	 General design measures include: Roadside planting and planting along the edge of the HKBCF Island is proposed; Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory hydro-seeding and planting; Protection measures for the trees to be retained during construction activities; Optimizing the sizes and spacing of the bridge columns; Finetuning the location of the bridge columns to avoid visually-sensitive locations; Maximizing new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed; Providing planting area around peripheral of HKBCF for tree planting screening effect; Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline; For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF; and Fine-tuning the sizes of the structural members to minimize the bulkiness of buildings and adjustment of building arrangement to minimise disturbance to surrounding vegetation in the HKBCF. 	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 a	& Visual (C	Construction Phase)						
S14.3.3.3	LV2	 Mitigate both Landscape and Visual Impacts G1. Grass-hydroseed bare soil surface and stock pile areas. G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge footbridge to screen bridge and traffic. G3. Not applicable as this is for HKLR. 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 G5. Vegetation reinstatement and upgrading to disturbed areas G6. Maximizing new tree shrub and other vegetation planting to compensate tree felled and vegetation removed G7. Providing planting area around peripheral of HKBCF for tree planting screening effect; G8. Plant salt-tolerant native and shrubs etc along the planter strip at affected seawall. G9. Reserve of loose natural granite rocks for re-use. Provide new coastline to adopt "natural-look" by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enchance "natural-look" of the new coastline. 	Minimise visual & landscape impact	Contractor	HKBCF	Construction stage		N/A
S14.3.3.3	LV3	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	 An Environmental Team needs to be employed as per the EM&A Manual. Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures. An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with. 	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

Reporting Period	Cumulative Statistics					
neporting renou	Complaints	Notifications of Summons	Successful Prosecutions			
This reporting period	0	0	0			
From commencement date of contract to end of reporting month	2	0	0			



APPENDIX I

Environmental Site Inspection Schedule

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