RAMBOLL ENVIRON

Ref.: HYDHZMBEEM00_0_3860L.16

16 February 2016

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. 16 for January 2016

Reference is made to the Environmental Team's submission of the Monthly Environmental Monitoring & Audit Report No. 16 for January 2016 (Revision 1) certified by the ET Leader (ET's ref.: "5126871/19.10/OC060/SO/LL" dated 16 February 2016) and provided to us via e-mail on 16 February 2016.

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

Raymond Dai
Independent Environmental Checker

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

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

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Your ref.
Our ref. 5126871/19.10/OC060/SO/LL

Date: 16 February 2016

By Post and e-mail (Donald.Ip@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. 16

Atkins China Limited certifies, in the capacity of Environmental Team Leader, that the Monthly EM&A Report No. 16 for January 2016 (Revision 1) 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)

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

Contract No. HY/2013/01

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

Monthly EM&A Report No. 16
(Covering the Period from 1 January 2016 to 31 January 2016)

15 February 2016

Revision 1

Main Contractor

LEIGHTON 禮頓
俊和 CHUN WO
Leighton - Chun Wo Joint Venture

Environmental Team

ATKINS

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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 sixteenth monthly EM&A Report for the Contract which summarizes findings of the EM&A works during the reporting period from 1 January 2016 to 31 January 2016.

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 AMS7 and noise monitoring at NMS2 and NMS3B as part of EM&A programme if these monitoring stations are no longer covered under Contract Nos. HY/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: 6, 13, 20 and 27 January 2016

Breaches of Action and Limit Levels

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

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

Air Quality Monitoring Location, AMS7A, was relocated back to its original location (AMS7-Hong Kong SkyCity Marriott Hotel) on 30 December 2015. The relocation of air quality monitoring location, AMS7A, back to AMS7 was approved by EPD on 21 December 2015. The air quality monitoring at AMS7-Hong Kong SkyCity Marriott Hotel started in January 2016. The action/limit level for air quality as

derived from the baseline monitoring data recorded at Hong Kong SkyCity Marriott Hotel (AMS7) was adopted for the air quality monitoring location.

Future Key Issues

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

- Bulk Excavation at WA1;
- Pile Cropping and Pile Capping at WA1;
- Tie Beams at WA1;
- Base Slab Construction and Suspended Slab Construction at WA1;
- Waterproofing at WA1;
- Tower Crane Erection at WA1;
- Southern Drop off Area Pile Capping & Column Construction at WA1;
- Column and Wall Construction at WA1;
- Seawater Pump House Socket H-pile works at WA1;
- Marine Mud Treatment at WA1;
- Backfilling at WA1;
- Mega Column Construction at WA1;
- Bulk Excavation at Box Culvert of WA1;
- Reinforced Concrete works at Box Culvert and Common Utilities Enclosure at WA1;
- Bored Pilling Works at Box Culvert at WA1;
- Cut Platform Construction at Box Culvert of WA1; and
- Formwork and falsework stripping at WA1.

1 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 commenced on 6 October 2014. The works areas of the Contract are shown in **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 numbers of footbridge links;
- Construction of a public toilet, 6 numbers 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 numbers 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 sixteenth Monthly EM&A Report for the Contract which summarizes the audit findings of the EM&A programme during the reporting period from 1 January 2016 to 31 January 2016.

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 (Leighton – Chun Wo Joint Venture)	Project Manager	Gary Wong	3973 0488	3621 0180
	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:

- Piling Test at WA1;
- Bulk Excavation at WA1;
- Pile Cropping and Pile Capping at WA1;
- Tie Beams at WA1;
- Base Slab Construction and Suspended Slab Construction at WA1;
- Waterproofing at WA1;
- Tower Crane Erection at WA1;
- Southern Drop off Area Pile Capping & Column Construction at WA1;
- Column and Wall Construction at WA1;
- Seawater Pump House Socket H-pile works at WA1;
- Marine Mud Treatment at WA1;
- Backfilling at WA1;

- Mega Column Construction at WA1;
- Bulk Excavation at Box Culvert at WA1;
- Reinforced Concrete works at Box Culvert and Common Utilities Enclosure at WA1;
- Bored Pilling Works at Box Culvert at WA1;
- Formwork and falsework stripping at WA1; and
- Cut Platform Construction at 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. However, AMS7A was relocated back to its original location (AMS7-Hong Kong SkyCity Marriott Hotel) on 30 December 2015. The relocation of air quality monitoring location, AMS7A, back to AMS7 was approved by EPD on 21 December 2015. The baseline and action/limit level for air quality as derived from the baseline monitoring data recorded at Hong Kong SkyCity Marriott Hotel (AMS7) was adopted for the air quality monitoring 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 AMS7 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.

Table 2-1 Construction Dust Monitoring Locations

ID	Location Description
AMS 6(1)	Dragonair/CNAC (Group) Building
AMS 7(2)	Hong Kong SkyCity Marriott Hotel

Remark:

(1) The ET of this Contract should conduct impact air quality monitoring at the AMS listed in the table as part of EM&A programme according to the latest notification from ENPO when the monitoring station(s) is/are no longer covered by another ET of the HZMB project.

(2) The original monitoring location was at Hong Kong SkyCity Marriott Hotel (AMS7). 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 was relocated to Chu Kong Air-Sea Union Transportation Co. Ltd. (AMS7A) from 5 February 2015 to 30 December 2015. The alternative monitoring location at Chu Kong Air-Sea Union Transportation Co. Ltd. was approved by EPD on 5 February 2015. However, AMS7A was relocated back to its original location (AMS7-Hong Kong SkyCity Marriott Hotel) on 30 December 2015. The relocation of air quality monitoring location, AMS7A, back to AMS7 was approved by EPD on 21 December 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/m³	Limit Level, µg/m³
AMS 6 – Dragonair / CNAC (Group) Building (HKIA)	360	500
AMS 7 - Hong Kong SkyCity Marriott Hotel	370	

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

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

2.2.3 The event and action plan is provided in **Appendix D**.

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

2.3 Monitoring Results

2.3.1 The monitoring results for AMS6 and AMS7 are reported in the monthly EM&A Reports prepared for Contract Nos. HY/2011/03 and HY/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 AMS7 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(A) for schools and 65 dB(A) during school examination period.

3.2.3 The event and action plan is provided in **Appendix D**.

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

3.3 Monitoring Results

3.3.1 The monitoring results for NMS2 and NMS3B are reported in the monthly EM&A Reports prepared for Contract No. HY/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.

4 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 6, 13, 20 and 27 January 2016.

4.1.2 Particular observations during the site inspections and corrective actions undertaken by the Contractor are described in **Table 4.1**.

Table 4-1 Summary of Environmental Site Inspections

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
30 December 2015	1. Refuse was scattered on the ground near a site office.	1. The refuse was cleared.	6 January 2016
6 January 2016	1. An empty chemical container was found without drip tray inside a box culvert at WA1.	1. The empty chemical container was removed.	13 January 2016
13 January 2016	1. Untreated marine sediment was not covered by tarpaulin sheet at Portion A1.	1. No untreated marine sediment was observed. Treated marine sediment was covered with tarpaulin sheets at Portion A1.	20 January 2016
	2. Chemical containers were placed on the ground without drip trays at Portion A2 West.	2. The chemical containers were removedt.	20 January 2016
20 January 2016	No particular environmental issue was recorded during the site inspection.	Nil	Nil
27 January 2016	1. Stagnant water was found inside drip trays at wooden panel storage area of Portion A1.	1. The Contractor was reminded to clear stagnant water inside the drip trays.	Follow-up actions undertaken by the Contractor will be inspected during the next site inspections.

4.1.3 The Contractor has rectified most of observations as identified during environmental site inspections within this reporting month. The follow-up actions for observation issued for the last site inspection will be checked in the upcoming site inspection and reported in the next reporting period.

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 Excavated marine sediment was generated and treated using cement solidification/stabilization (Cement S/S) techniques during the reporting period. Some treated marine sediment was left and stored on site during the reporting period and will be reused for Contract No. HY/2010/02.

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 Practice 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 AMS7 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 February 2016 are summarized in **Table 5.1**.

Table 5.1 Construction Activities for February 2016

Site Area	Description of Activities
WA1	Bulk Excavation
WA1	Pile Cropping and Pile Capping
WA1	Tie Beams
WA1	Base Slab Construction and Suspended Slab Construction
WA1	Waterproofing
WA1	Tower Crane Erection
WA1	Southern Drop off Area Pile Capping & Column Construction
WA1	Column and Wall Construction
WA1	Seawater Pump House Socket H-pile works at WA1
WA1	Marine Mud Treatment
WA1	Backfilling
WA1	Mega Column Construction
WA1	Bulk Excavation at Box Culvert
WA1	Reinforced Concrete works at Box Culvert and Common Utilities Enclosure
WA1	Bored Pilling Works at Box Culvert
WA1	Cut Platform Construction at Box Culvert
WA1	Formwork and falsework stripping

5.2 Environmental Site Inspection Schedule for the Coming Month

5.2.1 The tentative schedule for weekly site inspections for February 2016 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 sixteenth Monthly EM&A Report summarizes findings of the EM&A works during the reporting period from 1 January 2016 to 31 January 2016.

6.1.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A report prepared by Contract No. HY/2011/03.

6.1.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at AMS7 by the Environmental Team of Contract No. HY/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 Environmental site inspections were carried out on 6, 13, 20 and 27 January 2016. 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

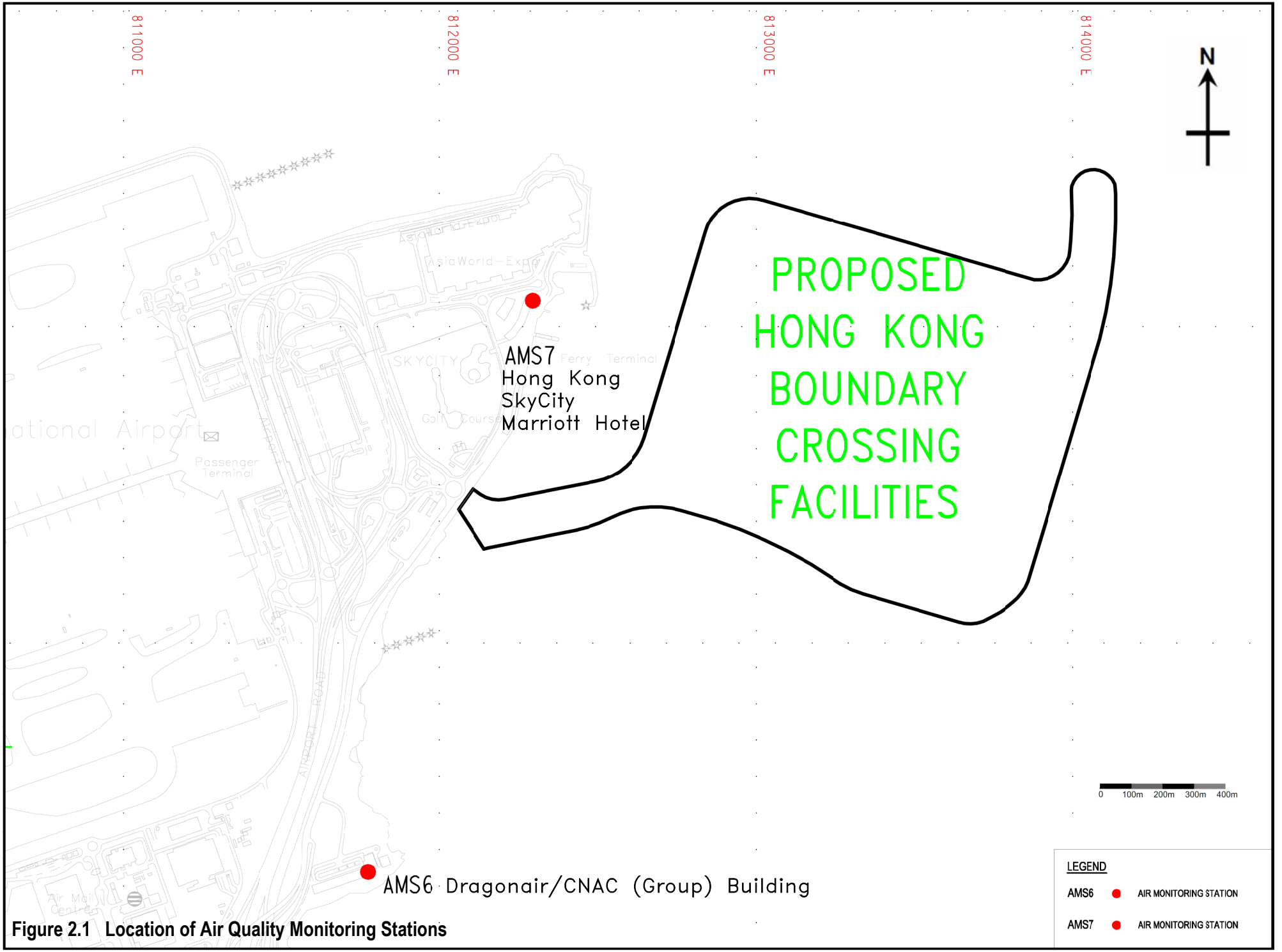


Figure 2.1 Location of Air Quality Monitoring Stations

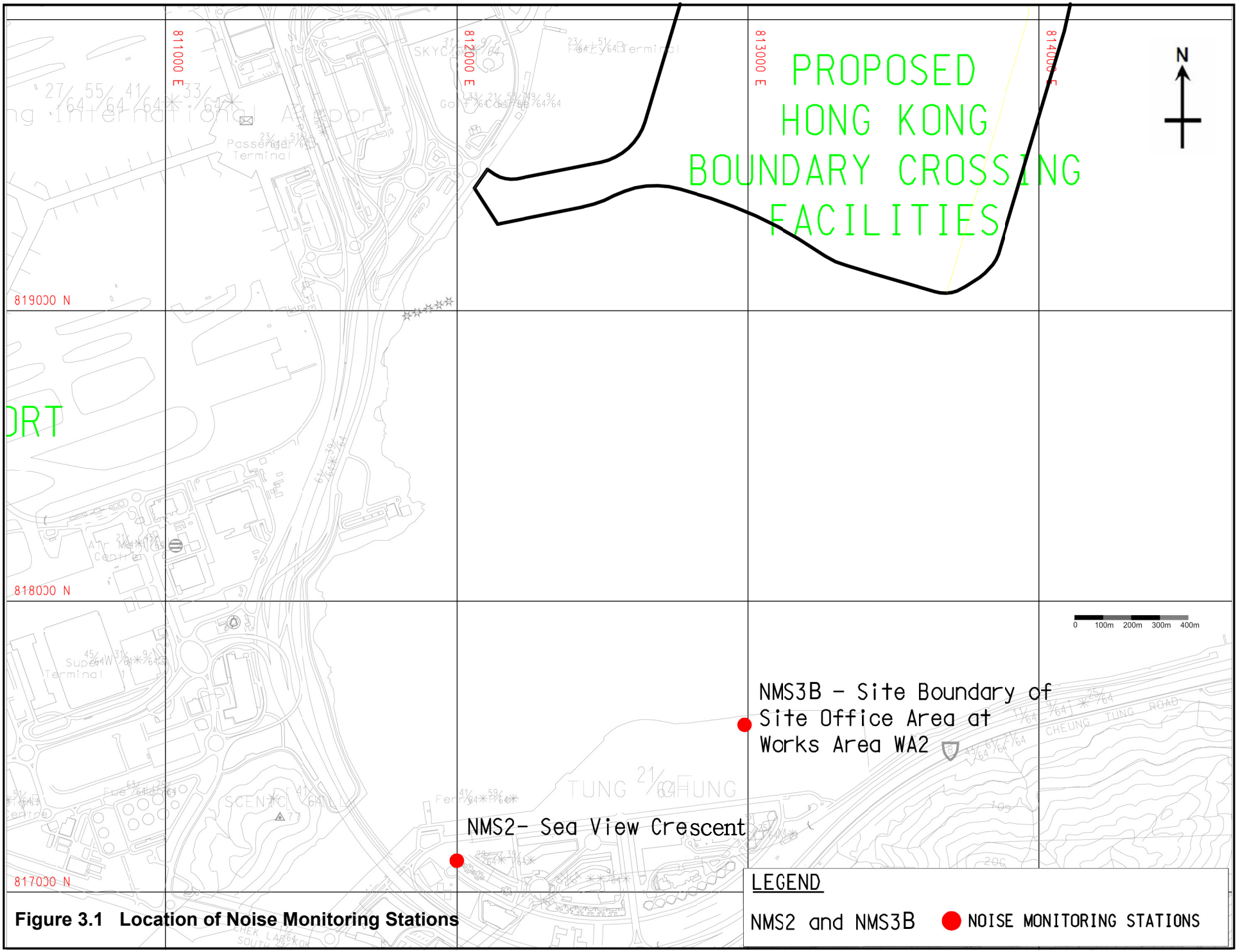
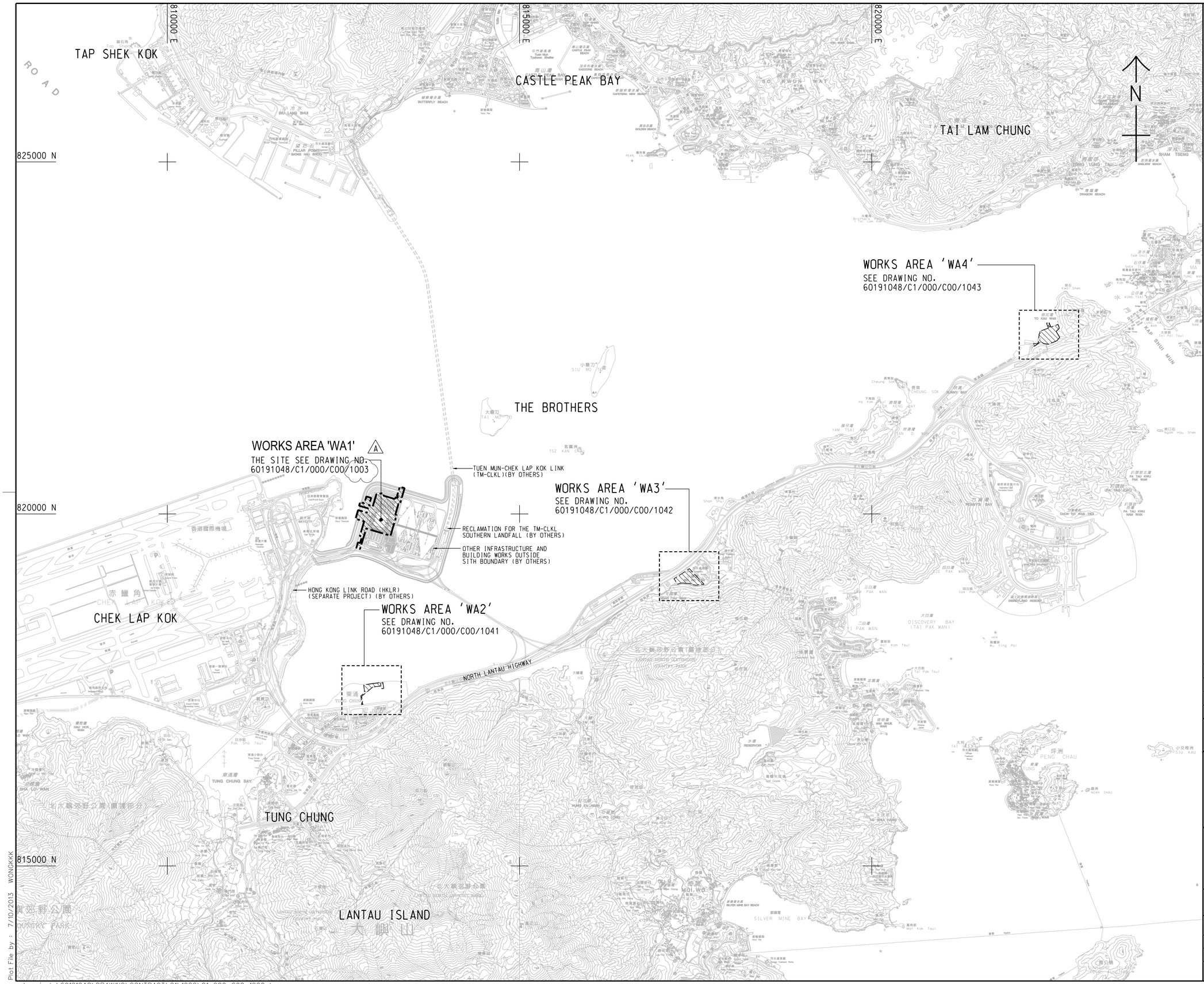


Figure 3.1 Location of Noise Monitoring Stations

APPENDIX A

Location of Works Areas



NOTES:

1. COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
2. DIMENSIONS ARE IN MILLIMETER AND CHAINAGE ARE IN METRES UNLESS OTHERWISE SHOWN.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NOS. 60191048/C1/000/C00/1041 TO 1043.

LEGEND: A

SITE BOUNDARY

WORKS AREA

REV. 修訂	DESCRIPTION 內容摘要	D.E. P.E. CHECKED 查核	DATE 日期
B	WORKING DRAWING	BWCW SCI	JUN.14
A	TENDER ADDENDUM NO. 1	BWCW SCI	OCT.13
-	TENDER DRAWING	BWCW SCI	SEP.13

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

HONG KONG-ZHUHAI-MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- PASSENGER CLEARANCE BUILDING

SITE LOCATION PLAN

AECOM
Rogers Stirk Harbour + Partners
BURO HAPPOLD ATKINS ADI

Aedas

DRG.NO. 圖紙編號 60191048/C1/000/C00/1000B

DESIGNED BY 設計	BWCW	CONTRACT NO. 合約編號	HY/2013/01
DRAWN BY 繪圖	WSY	P. Dir. APPROVED 負責人	TKH
SCALE 比例	A1 1 : 25000	STATUS 階段	WORKING DRAWING
DIMENSIONS ARE IN 尺寸單位	METRES		

Plot File by : 7/10/2013 WONGKKK

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812500 E

813000 E

813500 E

820500 N

820000 N

819500 N

SKYCITY

GATE 2 TO BE CONSTRUCTED
WHEN HY/2013/02 CONTRACTOR
TAKE OVER PORTION 1

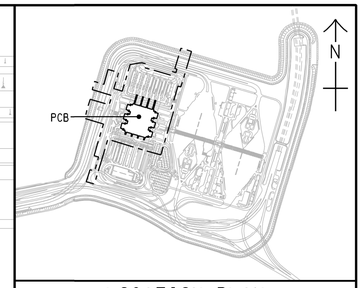
HAUL ROAD TO BE CONSTRUCTED
DIVERTED, MANAGED AND MAINTAINED
BY HY/2013/01 CONTRACT

C3

GATE TO BE CONSTRUCTED
BY CLP

MARINE LOADING AND UNLOADING
POINTS, EXACT LOCATION AND
EXTENT TO BE LIAISED AND
CONFIRMED WITH HY/2013/02
CONTRACTOR

GATE 1 TO BE CONSTRUCTED
AT THE COMMENCEMENT OF THE CONTRACT



LOCATION PLAN
SCALE 1 : 20000

NOTES:

1. COORDINATES ARE BASED ON HONG KONG METRIC GRID (1980) UNLESS OTHERWISE NOTED.
2. LEVELS ARE IN METRES RELATIVE TO HONG KONG PRINCIPAL DATUM (mPD) UNLESS OTHERWISE NOTED.
3. DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
4. SETTING OUT, DIMENSIONS, LEVELS, COORDINATES ARE TO BE CALCULATED BY THE CONTRACTOR. NO INFORMATION SHOULD BE SCALED PHYSICALLY OR ELECTRONICALLY FROM THE DRAWINGS OR FILES.
5. SITE ACCESS SHALL BE HARD PAVED WITH PROPER DRAINAGE PROVIDED. IT SHALL BE KEPT UNOBSTRUCTED AND UNDISRUPTED AT ALL TIMES.

LEGEND:

SITE BOUNDARY

7.3m CLEAR WIDTH CONSTRUCTION HAUL ROAD

INDICATIVE 20m WIDE VEHICULAR ACCESS BY RECLAMATION CONTRACT HY/2010/02

REV. 修訂	DESCRIPTION 內容摘要	D.E.	P.E. CHECKED 查核	DATE 日期
-	TENDER DRAWING	BWCW	SCI	SEP.13

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

HONG KONG-ZHUHAI-MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- PASSENGER CLEARANCE BUILDING

WORKS AREA WA1

AECOM
Rogers Stirk Harbour + Partners
BURO HAPPOLD ATKINS ADI
Aedas

DRG.NO. 圖紙編號 60191048/C1/000/C00/1044

DESIGNED BY 設計	CONTRACT NO. 合約編號	P. Dir. APPROVED 負責人
BWCW	HY/2013/01	EMSC
DRAWN BY 繪圖 WSY	STATUS 編改	
SCALE 比例 A1 1 : 2500		
DIMENSIONS ARE IN 尺寸單位 METRES		

Plot File by : 2013/9/10 WANGSY

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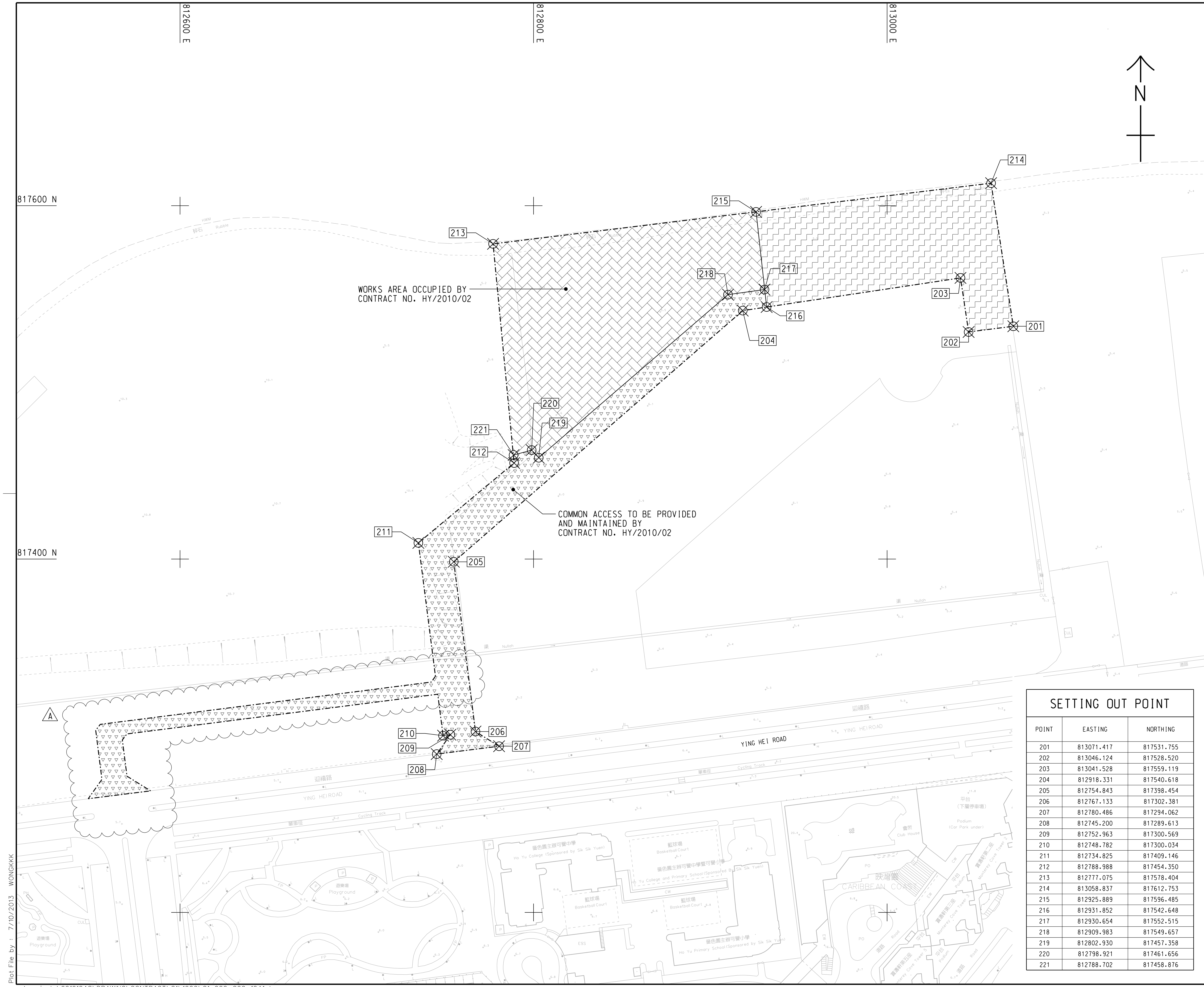
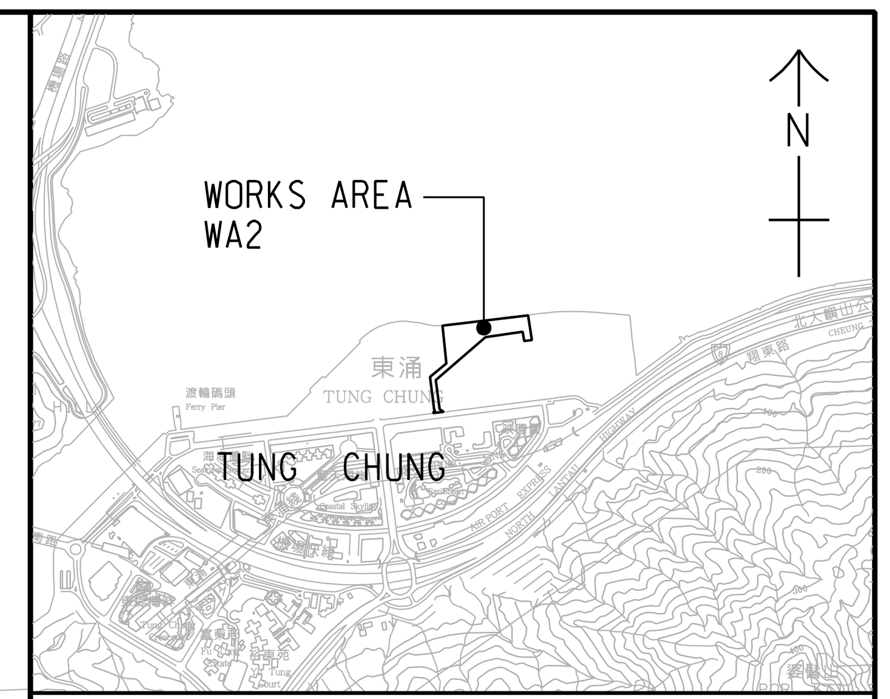


SETTING OUT POINT		
POINT	EASTING	NORTHING
201	813071.417	817531.755
202	813046.124	817528.520
203	813041.528	817559.119
204	812918.331	817540.618
205	812754.843	817398.454
206	812767.133	817302.381
207	812780.486	817294.062
208	812745.200	817289.613
209	812752.963	817300.569
210	812748.782	817300.034
211	812734.825	817409.146
212	812788.988	817454.350
213	812777.075	817578.404
214	813058.837	817612.753
215	812925.889	817596.485
216	812931.852	817542.648
217	812930.654	817552.515
218	812909.983	817549.657
219	812802.930	817457.358
220	812798.921	817461.656
221	812788.702	817458.876



LOCATION PLAN
SCALE 1 : 25000

NOTES:

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

LEGEND:

- WORKS AREA BOUNDARY
- PORTION 2.1
- PORTION 2.2
- PORTION 2.3

REV. 修訂	DESCRIPTION 內容摘要	D.E.	P.E.	DATE 日期
B	WORKING DRAWING	BWCW	SCI	JUN.14
A	TENDER ADDENDUM NO. 1	BWCW	SCI	OCT.13
-	TENDER DRAWING	BWCW	SCI	SEP.13

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

HONG KONG-ZHUHAI-MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- PASSENGER CLEARANCE BUILDING

WORKS AREA WA2

AECOM
Rogers Stirk Harbour + Partners
BURO HAPPOLD ATKINS ADI
Aedas

DRG.NO. 圖紙編號 60191048/C1/000/C00/1041B

DESIGNED BY 設計: BWCW	CONTRACT NO. 合約編號: HY/2013/01	P. Dir. APPROVED 批准人: TKH
DRAWN BY 繪圖: WSY	STATUS 階段: WORKING DRAWING	
SCALE 比例: A1 1 : 1000		
DIMENSIONS ARE IN 尺寸單位: METRES	© COPYRIGHT RESERVED 版權所有	

Plot File by : 7/10/2013 WONGKKK

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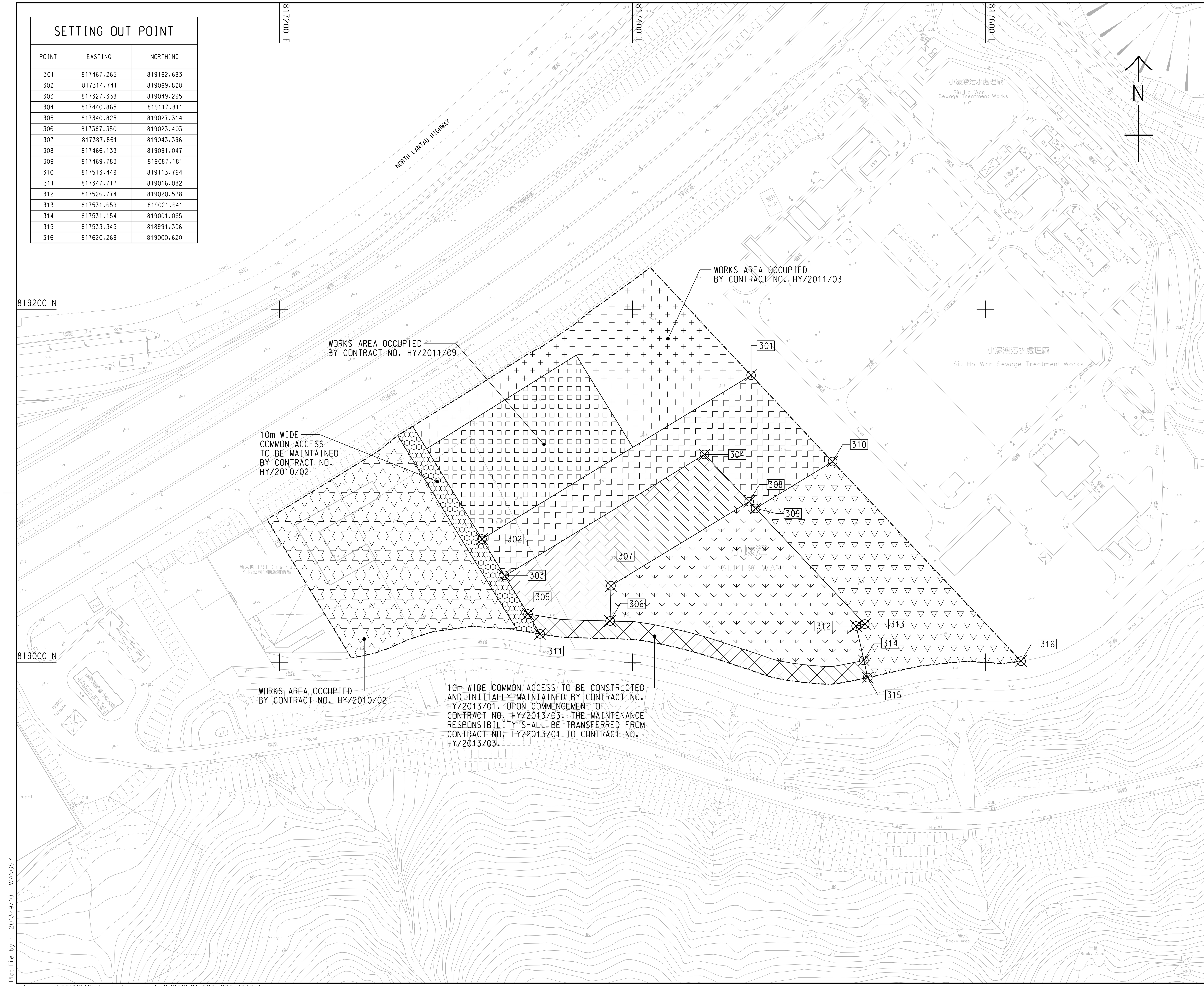
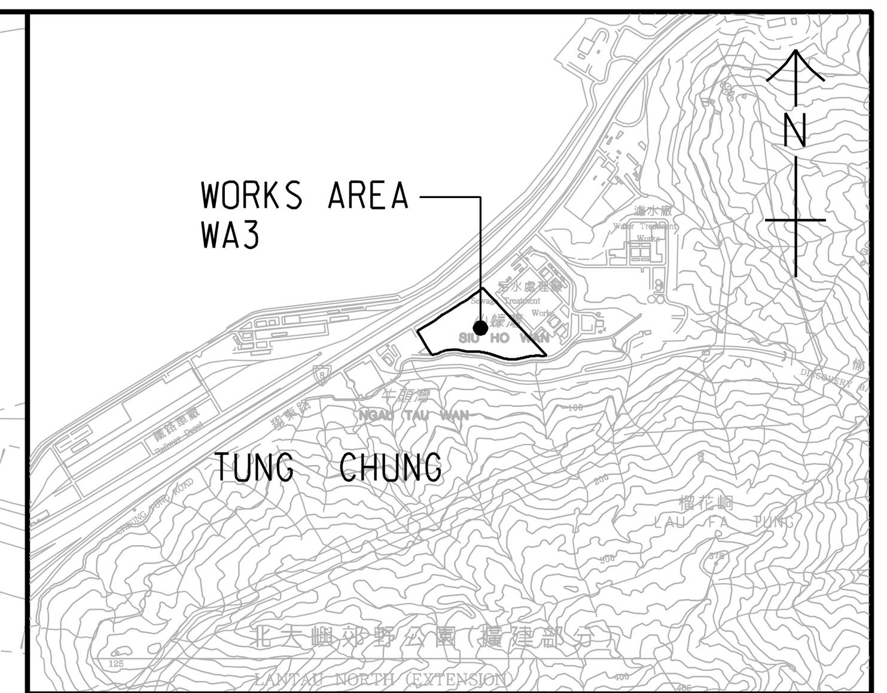
SETTING OUT POINT

POINT	EASTING	NORTHING
301	817467.265	819162.683
302	817314.741	819069.828
303	817327.338	819049.295
304	817440.865	819117.811
305	817340.825	819027.314
306	817387.350	819023.403
307	817387.861	819043.396
308	817466.133	819091.047
309	817469.783	819087.181
310	817513.449	819113.764
311	817347.717	819016.082
312	817526.774	819020.578
313	817531.659	819021.641
314	817531.154	819001.065
315	817533.345	818991.306
316	817620.269	819000.620





LOCATION PLAN
SCALE 1 : 25000

NOTES:

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

LEGEND:

- WORKS AREA BOUNDARY
- PORTION 3.1
- PORTION 3.2
- PORTION 3.3
- PORTION 3.4
- PORTION 3.5
- PORTION 3.6
- PORTION 3.7
- PORTION 3.8
- PORTION 3.9

REV. 修訂	DESCRIPTION 內容摘要		CHECKED 核定	DATE 日期
A	WORKING DRAWING	BWCW	SCI	JUN.14
-	TENDER DRAWING	BWCW	SCI	SEP.13

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

HONG KONG-ZHUHAI-MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- PASSENGER CLEARANCE BUILDING

WORKS AREA WA3

AECOM
Aedas
Rogers Stirk Harbour + Partners
BURO HAPPOLD ATKINS ADI

DRG.NO. 圖紙編號 60191048/C1/000/C00/1042A

DESIGNED BY 設計 BWCW	CONTRACT NO. 合約編號 HY/2013/01	P. Dir. APPROVED 批准人 TKH
DRAWN BY 繪圖 WSY	STATUS 種類 WORKING DRAWING	
SCALE 比例 A1 1 : 1000		
DIMENSIONS ARE IN 尺寸單位 METRES	© COPYRIGHT RESERVED 版權所有	

Plot File by : 2013/9/10 WANGSY

p:\projects\60191048\drawing\contract\c1\1000\C1_000_C00_1042.dgn

SETTING OUT POINT

POINT	EASTING	NORTHING
401	822488.151	822632.315
402	822640.593	822689.415
403	822515.608	822559.848
404	822610.940	822599.642
405	822629.428	822607.359
406	822526.988	822529.813
407	822618.348	822567.950
408	822542.232	822489.581
409	822584.983	822507.426
410	822606.866	822516.561
411	822560.278	822441.956
412	822602.949	822460.010
413	822621.914	822467.959
414	822624.130	822470.998
415	822651.725	822508.856

822400 E

822600 E

822600 N

822400 N

TO KAU WAN

401 402 403 404 405 406 407 408 409 410 411 412 413 414 415

WORKS AREA OCCUPIED BY CONTRACT NO. HY/2011/03

WORKS AREA OCCUPIED BY CONTRACT NO. HY/2011/09

WORKS AREA OCCUPIED BY CONTRACT NO. HY/2013/05

9m WIDE COMMON ACCESS TO BE CONSTRUCTED AND MAINTAINED BY CONTRACT NO. HY/2013/01

9m WIDE COMMON ACCESS TO BE MAINTAINED BY CONTRACT NO.HY/2013/01

NORTH LANTAU HIGHWAY

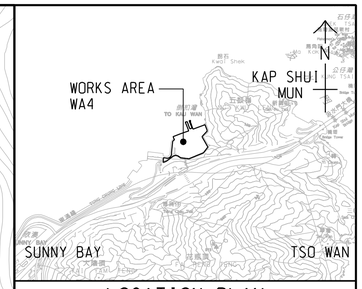
大青洲 TAI TSING CHAU

船廠 Shipyard

海堤 Seawall

碎石 Rubble

隧道 Tunnel



LOCATION PLAN
SCALE 1 : 25000

NOTES:

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

LEGEND:

- WORKS AREA BOUNDARY
- PORTION 4.1
- PORTION 4.2
- PORTION 4.3
- PORTION 4.4
- PORTION 4.5
- PORTION 4.6
- PORTION 4.7
- PORTION 4.8

REV. 修訂	DESCRIPTION 內容摘要	D.C.	P.C. CHECKED 審核	DATE 日期
-	TENDER DRAWING	BWCW	SCI	SEP.13

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

HONG KONG-ZHUHAI-MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- PASSENGER CLEARANCE BUILDING

WORKS AREA WA4

AECOM
Rogers Stirk Harbour + Partners
BURO HAPPOLD ATKINS ADI
Aedas

DRG.NO. 圖紙編號 60191048/C1/000/C00/1043

DESIGNED BY 設計	CONTRACT NO. 合約編號	P. Dir. APPROVED 批准人
BWCW	HY/2013/01	EMSC
DRAWN BY 繪圖 WSY	STATUS 階段	
SCALE 比例 A1 1 : 1000		
DIMENSIONS ARE IN 尺寸單位 METRES	© COPYRIGHT RESERVED 版 權 所 有	

Plot File by : 2013/9/10 WANGSY

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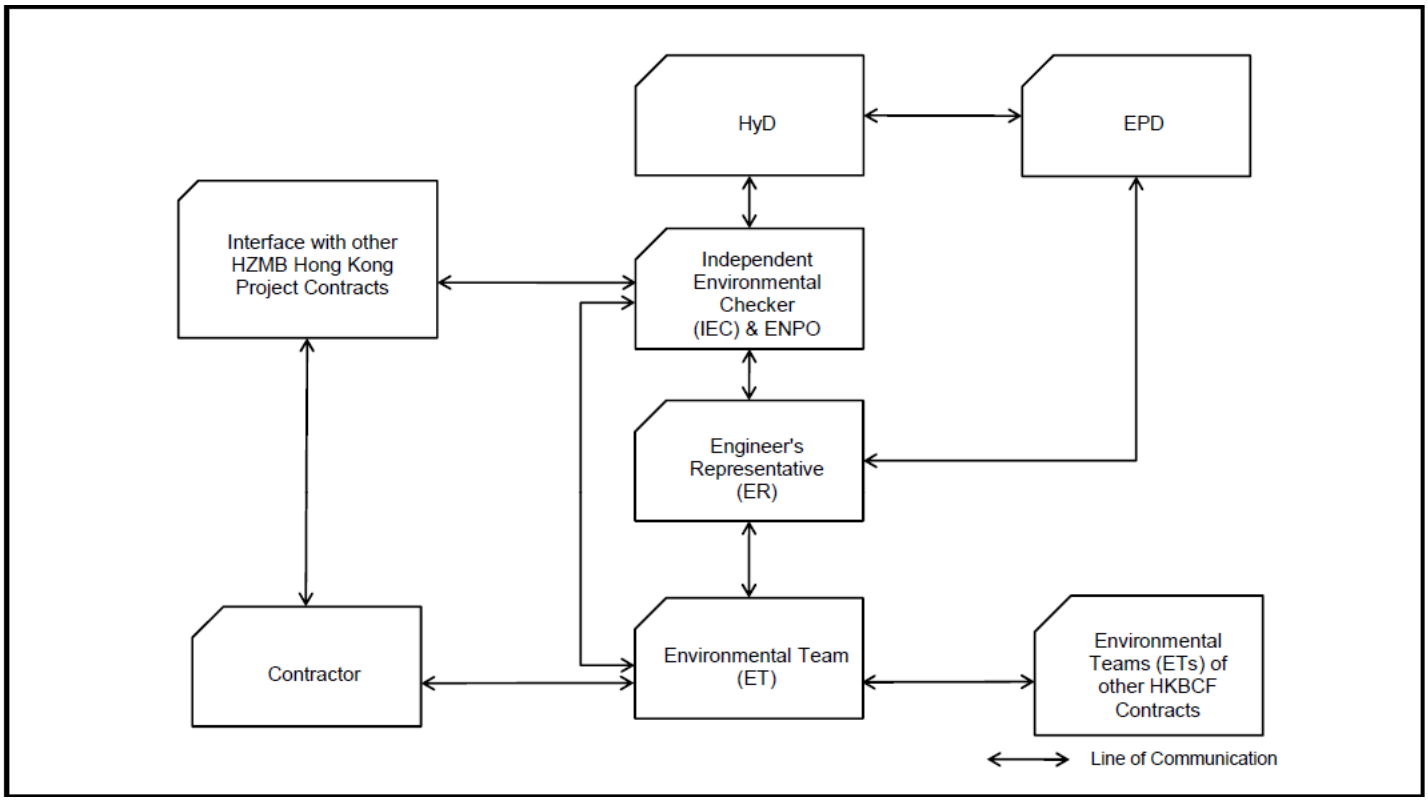
APPENDIX B

Project Organization for Environmental Works

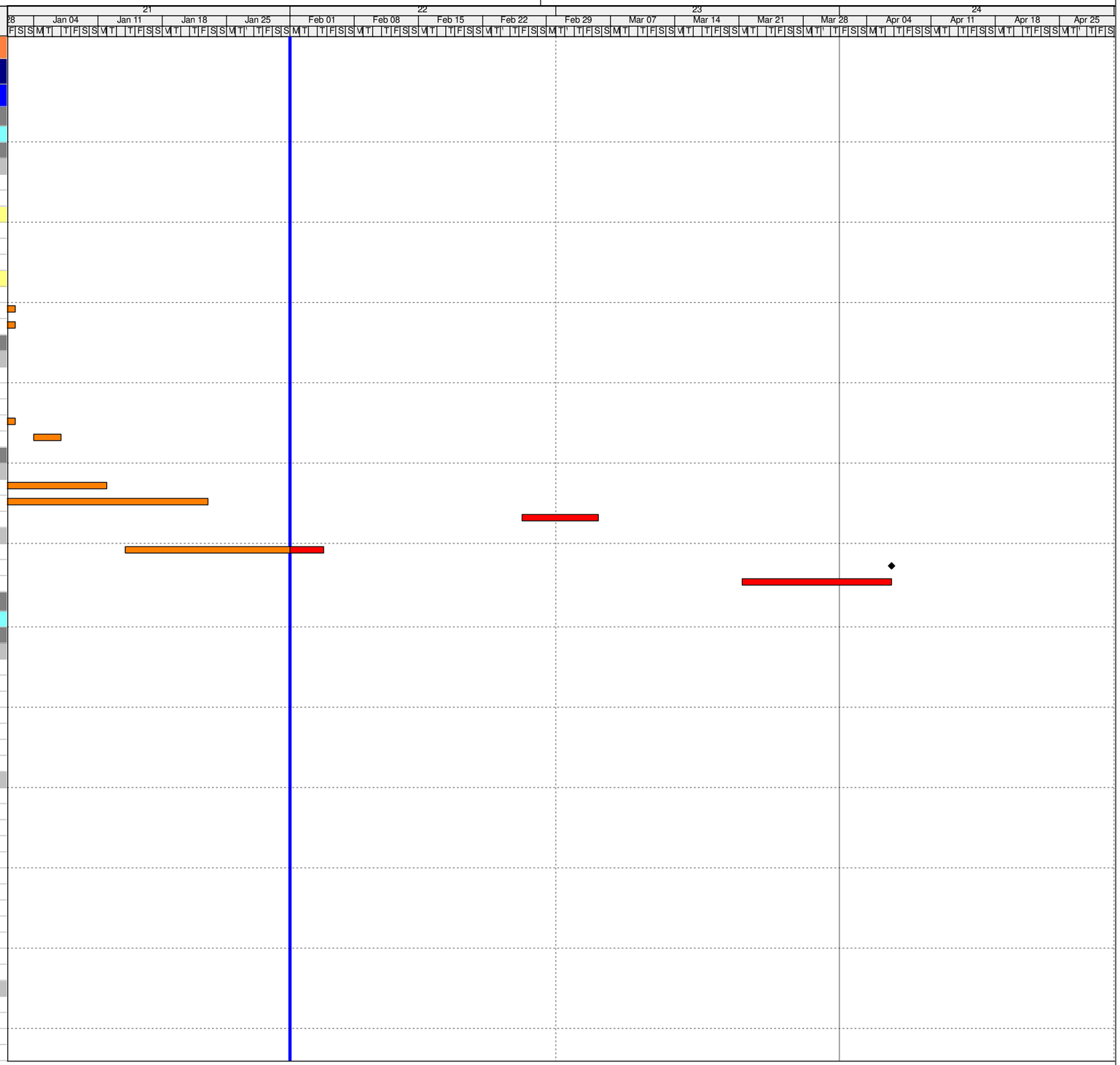
Project Organisation for Environmental Works



APPENDIX C

Construction Programme

Activity ID	Activity Name	Original Duration	Start	Finish
HY/2013/01 HKZMB HKBCF - PCB - 3MRP - December		617	27-May-14 A	05-Aug-16
CONSTRUCTION		617	27-May-14 A	05-Aug-16
Passenger Clearance Building		216	02-Jul-15 A	10-Jun-16
Earthwork		163	20-Aug-15 A	06-Apr-16
Bulk Excavation (to -3.845 -1.495mPD)		163	20-Aug-15 A	06-Apr-16
South - 161230m³		111	08-Sep-15 A	02-Jan-16 A
West - 86,369m³		111	08-Sep-15 A	02-Jan-16 A
PCB-02-29610	PCB - Removal of A0 Bench	14	15-Sep-15 A	02-Oct-15 A
PCB-02-29620	PCB - Removal of B0 Bench	14	22-Sep-15 A	07-Oct-15 A
A0		84	08-Sep-15 A	12-Dec-15 A
PCB-02-29320	PCB - Excavation for Basement Zone A1	12	08-Sep-15 A	22-Oct-15 A
PCB-02-29330	PCB - Excavation for Basement Zone A2	12	30-Nov-15 A	12-Dec-15 A
PCB-02-29340	PCB - Excavation for Basement Zone A3	12	08-Dec-15 A	12-Dec-15 A
B0		87	18-Sep-15 A	02-Jan-16 A
PCB-02-29350	PCB - Excavation for Basement Zone B1	12	18-Sep-15 A	17-Nov-15 A
PCB-02-29360	PCB - Excavation for Basement Zone B2	12	11-Dec-15 A	02-Jan-16 A
PCB-02-29370	PCB - Excavation for Basement Zone B3	12	22-Dec-15 A	02-Jan-16 A
Centre - 120,090m³		146	20-Aug-15 A	07-Jan-16 A
Centre - 120,090m³		146	20-Aug-15 A	07-Jan-16 A
PCB-02-29600	PCB - Excavation for Basement Zone C2 to -1.8mPD	15	31-Aug-15 A	15-Sep-15 A
PCB-02-1780	PCB - Excavation for Basement Zone C1 to -3.84mPD	35	20-Aug-15 A	23-Sep-15 A
PCB-02-29870	PCB - Excavation for Basement Zone C2 to -3.84mPD	20	15-Sep-15 A	17-Oct-15 A
PCB-02-29500	PCB - Excavation for Basement (20,015m³) Zone C3 EAST	12	28-Dec-15 A	02-Jan-16 A
PCB-02-31570	PCB - Excavation for Basement (20,015m³) Zone C3 WEST	12	04-Jan-16 A	07-Jan-16 A
North - 94,824m³		91	11-Dec-15 A	06-Apr-16
East - 47,412m³		65	11-Dec-15 A	05-Mar-16
PCB-02-31580	PCB - Excavation for Basement (46,500m³) Zone E3	14	11-Dec-15 A	12-Jan-16 A
PCB-02-29650	PCB - Excavation for Basement (46,500m³) Zone E3 West	14	11-Dec-15 A	23-Jan-16 A
PCB-02-32900	PCB - Remaining Excavation for Basement Zone E3 (after Box Culvert)	8	26-Feb-16	05-Mar-16
West - 47,412m³		60	14-Jan-16 A	06-Apr-16
PCB-02-31590	PCB - Excavation for Basement (23,706m³) Zone W3	14	14-Jan-16 A	04-Feb-16
PCB-02-1710	PCB - Complete Bulk Excavation for PCB	0		06-Apr-16
PCB-02-29740	PCB - Excavation for Basement (23,706m³) Zone W3 Stage B	14	21-Mar-16	06-Apr-16
Pile Caps and Tie Beam Construction		199	02-Jul-15 A	04-Jun-16
Basement Tie Beams & Pile Caps		199	02-Jul-15 A	04-Jun-16
Zone E1		73	02-Jul-15 A	24-Dec-15 A
BS05		34	02-Jul-15 A	04-Nov-15 A
PCB-02-24400	Waterproofing to BF05 Mega Pile Cap Gridline H-G East	4	22-Jul-15 A	27-Jul-15 A
PCB-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
PCB-02-22260	Pile Cropping to BF05 Mega Pile Cap	12	02-Jul-15 A	17-Aug-15 A
PCB-02-31990	Columns above BS05	12	30-Jul-15 A	26-Sep-15 A
PCB-02-23040	BS05 External Wall	12	26-Sep-15 A	10-Oct-15 A
PCB-02-32000	BS05 Double Slab Walls	4	22-Oct-15 A	04-Nov-15 A
PCB-02-32010	BS05 Double Slab	5	28-Oct-15 A	04-Nov-15 A
BS04		73	04-Aug-15 A	24-Dec-15 A
PCB-02-22250	Pile Cropping to BF04	12	04-Aug-15 A	17-Aug-15 A
PCB-02-22620	Pile Caps & Tie Beams to BF04	12	04-Sep-15 A	22-Sep-15 A
PCB-02-24390	Waterproofing to BF04	4	23-Sep-15 A	26-Sep-15 A
PCB-02-22720	Backfilling to Tie Beams to BF04	4	29-Sep-15 A	09-Oct-15 A
PCB-02-21980	PCB - Base Slab (GL0.2 to 1.2) H-G - 204m³ Pour BS04	15	10-Oct-15 A	20-Oct-15 A
PCB-02-23030	PCB - Basement Ext Walls BS04 East	12	26-Oct-15 A	06-Nov-15 A
PCB-02-32030	Columns above BS04	9	06-Nov-15 A	20-Nov-15 A
PCB-02-32240	PCB - Basement Ext Walls BS04 South	6	04-Nov-15 A	27-Nov-15 A
PCB-02-32040	BS04 Double Slab Walls	4	22-Oct-15 A	03-Dec-15 A
PCB-02-32050	BS04 Double Slab	11	01-Dec-15 A	15-Dec-15 A
PCB-02-32250	PCB - Basement Ext Walls BS04 West	6	28-Nov-15 A	15-Dec-15 A
PCB-02-32270	PCB - Backfill behind Basement Ext Walls BS04 South	6	19-Dec-15 A	24-Dec-15 A
BS06		73	03-Aug-15 A	17-Dec-15 A
PCB-02-20090	Pile Cropping to BF06	12	03-Aug-15 A	15-Aug-15 A
PCB-02-22640	Pile Caps & Tie Beams to BF06	12	15-Aug-15 A	05-Sep-15 A
PCB-02-24410	Waterproofing to BF06	4	24-Aug-15 A	11-Sep-15 A
PCB-02-25150	Backfilling to Tie Beams to BF06	4	12-Sep-15 A	05-Oct-15 A

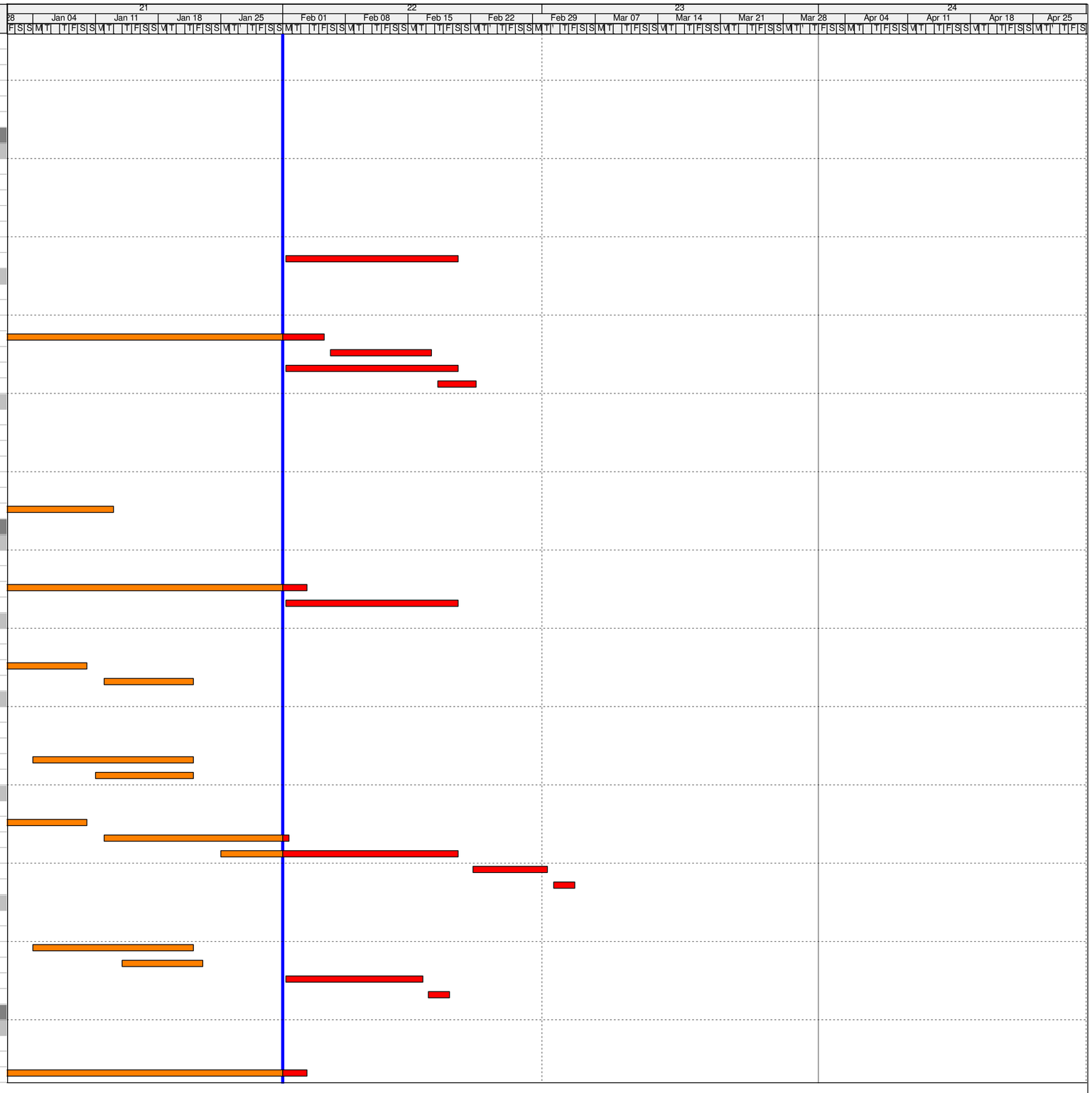


Actual Work
Remaining Work
Critical Remaining Work
Milestone

3 MONTHS ROLLING PROGRAMME

Date	Revision	Checked	Approved

Activity ID	Activity Name	Original Duration	Start	Finish
PCB-02-22850	PCB - Base Slab (GL0.2 to 1.2) H-G - 337m³ Pour BS06	15	23-Sep-15 A	13-Oct-15 A
PCB-02-23050	PCB - Basement Ext Walls BS06 East	18	19-Oct-15 A	28-Oct-15 A
PCB-02-32070	BS06 Double Slab Walls	4	02-Dec-15 A	12-Dec-15 A
PCB-02-32080	BS06 Double Slab	4	07-Dec-15 A	12-Dec-15 A
PCB-02-32260	PCB - Basement Ext Walls BS06 West	6	07-Dec-15 A	15-Dec-15 A
PCB-02-32060	Columns above BS06	9	02-Nov-15 A	17-Dec-15 A
Zone E2		113	13-Aug-15 A	22-Feb-16
BS11		112	13-Aug-15 A	20-Feb-16
PCB-02-20270	Pile Cropping to BF11 Mega Pile Cap	12	13-Aug-15 A	22-Aug-15 A
PCB-02-22540	Pile Caps & Tie Beams to BF11 Mega Pile Cap Gridline E-F East	12	24-Aug-15 A	10-Sep-15 A
PCB-02-24310	Waterproofing to BF11 Mega Pile Cap Gridline E-F East	4	24-Aug-15 A	18-Sep-15 A
PCB-02-32100	BS11 Double Slab Walls	4	23-Nov-15 A	28-Nov-15 A
PCB-02-32110	BS11 Double Slab	4	01-Dec-15 A	08-Dec-15 A
PCB-02-32090	Columns above BS11	6	13-Oct-15 A	29-Dec-15 A
PCB-02-23070	PCB - Basement Ext Walls BS11	12	01-Feb-16	20-Feb-16
BS12		113	16-Sep-15 A	22-Feb-16
PCB-02-22380	Pile Cropping to BF12	12	16-Sep-15 A	23-Sep-15 A
PCB-02-21830	PCB - Base Slab (GL0.2 to 1.2) F-E.5 - 339m³ Pour BS12	17	19-Oct-15 A	19-Nov-15 A
PCB-02-21825	Pile Caps & Tie Beams to BF12	12	23-Sep-15 A	27-Nov-15 A
PCB-02-32120	Columns above BS12	7	01-Dec-15 A	05-Feb-16
PCB-02-32130	BS12 Double Slab Walls	4	06-Feb-16	17-Feb-16
PCB-02-23080	PCB - Basement Ext Walls BS12	12	01-Feb-16	20-Feb-16
PCB-02-32140	BS12 Double Slab	4	18-Feb-16	22-Feb-16
BS10		62	21-Sep-15 A	13-Jan-16 A
PCB-02-22270	Pile Cropping to BF10	12	21-Sep-15 A	08-Oct-15 A
PCB-02-22650	Pile Caps & Tie Beams to BF10	9	09-Oct-15 A	30-Oct-15 A
PCB-02-21790	PCB - Base Slab (GL2.2 to 3.2) F-E.5 - 509m³ Pour BS10	17	31-Oct-15 A	24-Nov-15 A
PCB-02-32160	BS10 Double Slab Walls	4	07-Dec-15 A	12-Dec-15 A
PCB-02-32170	BS10 Double Slab	4	07-Dec-15 A	12-Dec-15 A
PCB-02-23060	PCB - Basement Ext Walls BS10	12	02-Dec-15 A	28-Dec-15 A
PCB-02-32150	Columns above BS10	10	01-Dec-15 A	13-Jan-16 A
Zone W1		104	22-Oct-15 A	04-Mar-16
BS02		93	22-Oct-15 A	20-Feb-16
PCB-02-20050	Pile Cropping to BF02 Mega Pile Cap	4	22-Oct-15 A	31-Oct-15 A
PCB-02-22450	Pile Caps & Tie Beams to BF02 Mega Pile Cap and Base Slab Gridline H-G W	14	02-Nov-15 A	17-Nov-15 A
PCB-02-32220	Columns above BS02	6	07-Dec-15 A	03-Feb-16
PCB-02-21770	PCB - Basement Ext Walls to BS02	12	01-Feb-16	20-Feb-16
BF03 Stage 1		31	07-Dec-15 A	22-Jan-16 A
PCB-02-32310	Excavation to BF03 Stage 1	6	07-Dec-15 A	16-Dec-15 A
PCB-02-29420	Pile Cropping to BF03 Stage 1	6	10-Dec-15 A	17-Dec-15 A
PCB-02-29430	Pile Caps & Tie Beams to BF03 Stage 1	8	23-Dec-15 A	10-Jan-16 A
PCB-02-29450	Backfilling to Tie Beams to BF03 Stage 1	4	12-Jan-16 A	22-Jan-16 A
BF01 Stage 1		31	07-Dec-15 A	22-Jan-16 A
PCB-02-29380	Pile Cropping to BF01 Stage 1	6	07-Dec-15 A	10-Dec-15 A
PCB-02-29390	Pile Caps & Tie Beams to BF01a Stage 1	8	10-Dec-15 A	27-Dec-15 A
PCB-02-32810	Pile Caps & Tie Beams to BF01b Stage 1	8	10-Dec-15 A	31-Dec-15 A
PCB-02-29410	Backfilling to Tie Beams to BF01a Stage 1	4	04-Jan-16 A	22-Jan-16 A
PCB-02-32820	Backfilling to Tie Beams to BF01b Stage 1	4	11-Jan-16 A	22-Jan-16 A
BF03 Stage 2		48	14-Dec-15 A	04-Mar-16
PCB-02-31610	Pile Cropping to BF03 Stage 2	6	14-Dec-15 A	18-Dec-15 A
PCB-02-31700	Pile Caps & Tie Beams to BF03 Stage 2	8	23-Dec-15 A	10-Jan-16 A
PCB-02-31870	Backfilling to Tie Beams to BF03 Stage 2	4	12-Jan-16 A	01-Feb-16
PCB-02-21970	PCB - Base Slab (GL0.2 to 1.2) H - 336m³ Pour BS03	18	25-Jan-16 A	20-Feb-16
PCB-02-21740	PCB - Basement Ext Walls to BS03 (Rqd for BS25)	8	22-Feb-16	01-Mar-16
PCB-02-23380	PCB - Backfilling to Ground Level at Basement Ext Walls BS03	3	02-Mar-16	04-Mar-16
BF01 Stage 2		53	12-Dec-15 A	19-Feb-16
PCB-02-32320	Pile Cropping to BF01c & d Stage 2	6	12-Dec-15 A	17-Dec-15 A
PCB-02-32330	Pile Caps & Tie Beams to BF01 Stage 2	8	15-Dec-15 A	31-Dec-15 A
PCB-02-32340	Backfilling to Tie Beams to BF01 Stage 2	4	04-Jan-16 A	22-Jan-16 A
PCB-02-21990	PCB - Base Slab (GL4.2 to 5.2) H - 301m³ Pour BS01	18	14-Jan-16 A	23-Jan-16 A
PCB-02-21760	PCB - Basement Ext Walls to BS01 (Rqd for BS25)	8	01-Feb-16	16-Feb-16
PCB-02-23390	PCB - Backfilling to Ground Level at Basement Ext Walls BS01	3	17-Feb-16	19-Feb-16
Zone W2		93	18-Nov-15 A	19-Mar-16
BS08		69	18-Nov-15 A	20-Feb-16
PCB-02-22330	Pile Cropping to BF08 Mega Pile Cap	8	18-Nov-15 A	24-Nov-15 A
PCB-02-22580	Pile Caps & Tie Beams to BF08 Mega Pile Cap Gridline E-F West	12	25-Nov-15 A	04-Dec-15 A
PCB-02-32230	Columns above BS08	6	24-Dec-15 A	03-Feb-16

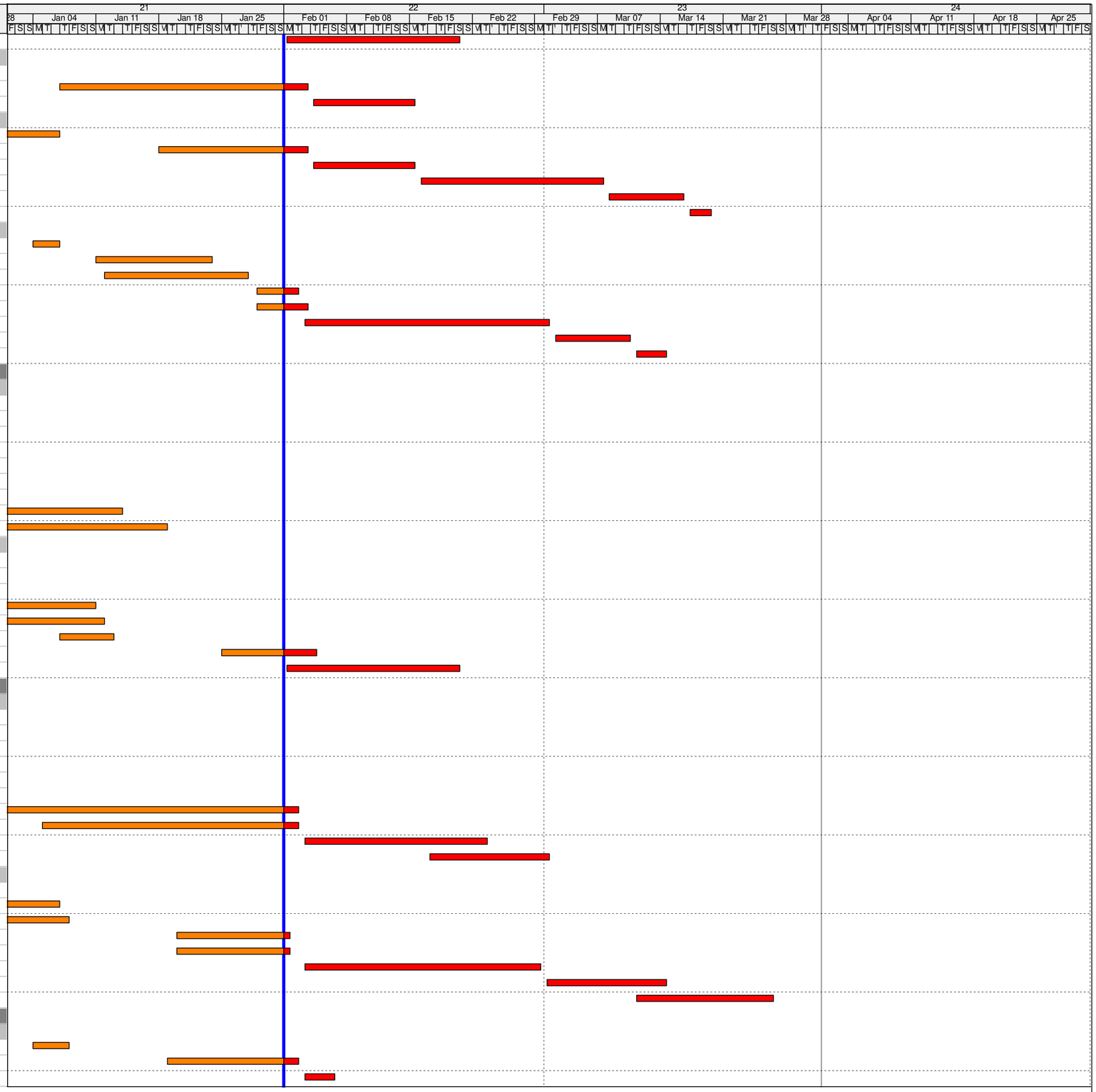


Actual Work
Remaining Work
Critical Remaining Work
Milestone

3 MONTHS ROLLING PROGRAMME

Date	Revision	Checked	Approved

Activity ID	Activity Name	Original Duration	Start	Finish
PCB-02-22890	PCB - Basement Ext Walls to BS08	12	01-Feb-16	20-Feb-16
BF09 Stage 1		40	14-Dec-15 A	15-Feb-16
PCB-02-29460	Pile Cropping to BF09 Stage 1	6	14-Dec-15 A	17-Dec-15 A
PCB-02-29470	Pile Caps & Tie Beams to BF09 Stage 1	8	07-Jan-16 A	03-Feb-16
PCB-02-29490	Backfilling to Tie Beams to BF09 Stage 1	4	04-Feb-16	15-Feb-16
BF09 Stage 2		61	15-Dec-15 A	19-Mar-16
PCB-02-31620	Pile Cropping to BF09 Stage 2	6	15-Dec-15 A	07-Jan-16 A
PCB-02-31720	Pile Caps & Tie Beams to BF09 Stage 2	8	18-Jan-16 A	03-Feb-16
PCB-02-31890	Backfilling to Tie Beams to BF09 Stage 2	4	04-Feb-16	15-Feb-16
PCB-02-21810	PCB - Base Slab Pour BS09 Stage 2	18	16-Feb-16	07-Mar-16
PCB-02-22910	PCB - Basement Ext Walls BS09	8	08-Mar-16	16-Mar-16
PCB-02-23270	PCB - Backfilling to Ground Level at Basement Ext Walls BS09	3	17-Mar-16	19-Mar-16
BS07		43	04-Jan-16 A	14-Mar-16
PCB-02-32470	Pile Cropping to BF07	6	04-Jan-16 A	07-Jan-16 A
PCB-02-32480	Pile Caps & Tie Beams to BF07a	8	11-Jan-16 A	24-Jan-16 A
PCB-02-32830	Pile Caps & Tie Beams to BF07b	8	12-Jan-16 A	28-Jan-16 A
PCB-02-32490	Backfilling to Tie Beams to BF07a	4	29-Jan-16 A	02-Feb-16
PCB-02-32840	Backfilling to Tie Beams to BF07b	4	29-Jan-16 A	03-Feb-16
PCB-02-21840	PCB - Base Slab Pour BS07	18	03-Feb-16	01-Mar-16
PCB-02-22880	PCB - Basement Ext Walls to BS07	8	02-Mar-16	10-Mar-16
PCB-02-23410	PCB - Backfilling to Ground Level at Basement Ext Walls BS07	3	11-Mar-16	14-Mar-16
Zone C1		99	13-Oct-15 A	20-Feb-16
BS17		86	13-Oct-15 A	19-Jan-16 A
PCB-02-22280	Pile Cropping to BF17	5	13-Oct-15 A	17-Oct-15 A
PCB-02-22660	Pile Caps & Tie Beams to BF17a	12	19-Oct-15 A	07-Nov-15 A
PCB-02-32280	Pile Caps & Tie Beams to BF17b	12	29-Oct-15 A	12-Nov-15 A
PCB-02-32290	Pile Caps & Tie Beams to BF17c	12	24-Oct-15 A	14-Nov-15 A
PCB-02-32300	Pile Caps & Tie Beams to BF17d	12	27-Oct-15 A	19-Nov-15 A
PCB-02-22740	Backfilling to Tie Beams to BF17	4	13-Nov-15 A	28-Nov-15 A
PCB-02-21800	PCB - Base Slab (GL3.2 to 4.2) F-E.5 - 522m³ Pour BS17	17	30-Nov-15 A	05-Dec-15 A
PCB-02-32180	Columns above BS17	8	21-Dec-15 A	14-Jan-16 A
PCB-02-23010	PCB - Basement Ext Walls BS17 (Rqd for BS26)	12	28-Dec-15 A	19-Jan-16 A
BS18		99	15-Oct-15 A	20-Feb-16
PCB-02-22370	Pile Cropping to BF18	3	15-Oct-15 A	28-Oct-15 A
PCB-02-22530	Pile Caps & Tie Beams to BF18a	10	03-Dec-15 A	16-Dec-15 A
PCB-02-32690	Pile Caps & Tie Beams to BF18b	10	10-Dec-15 A	17-Dec-15 A
PCB-02-22800	Backfilling to Tie Beams to BF18a	4	21-Dec-15 A	11-Jan-16 A
PCB-02-32700	Backfilling to Tie Beams to BF18b	4	21-Dec-15 A	12-Jan-16 A
PCB-02-22870	PCB - Base Slab (GL1.2 to 2.2) F-E.5 - 561m³ Pour BS18	17	07-Jan-16 A	13-Jan-16 A
PCB-02-32190	Columns above BS18	7	25-Jan-16 A	04-Feb-16
PCB-02-23140	PCB - Basement Ext Walls BS18	12	01-Feb-16	20-Feb-16
Zone C2		127	15-Oct-15 A	26-Mar-16
BS15		105	15-Oct-15 A	01-Mar-16
PCB-02-22290	Pile Cropping to BF15	6	15-Oct-15 A	29-Oct-15 A
PCB-02-22670	Pile Caps & Tie Beams to BF15a	14	29-Oct-15 A	25-Nov-15 A
PCB-02-32710	Pile Caps & Tie Beams to BF15b	14	17-Nov-15 A	26-Nov-15 A
PCB-02-32740	Backfilling to Tie Beams to BF15a	4	27-Nov-15 A	14-Dec-15 A
PCB-02-32750	Backfilling to Tie Beams to BF15b	4	27-Nov-15 A	14-Dec-15 A
PCB-02-32720	Pile Caps & Tie Beams to BF15c	14	27-Nov-15 A	26-Dec-15 A
PCB-02-21850	PCB - Base Slab (GL3.2 to 4.2) G-F - 538m³ Pour BS15	17	14-Dec-15 A	02-Feb-16
PCB-02-32760	Backfilling to Tie Beams to BF15c	4	05-Jan-16 A	02-Feb-16
PCB-02-23020	PCB - Basement Ext Walls BS15 (Rqd for BS27)	12	03-Feb-16	23-Feb-16
PCB-02-32200	Columns above BS15	12	17-Feb-16	01-Mar-16
BS16		103	26-Oct-15 A	26-Mar-16
PCB-02-22350	Pile Cropping to BF16	6	26-Oct-15 A	30-Oct-15 A
PCB-02-22600	Pile Caps & Tie Beams to BF16a	14	28-Dec-15 A	07-Jan-16 A
PCB-02-32780	Pile Caps & Tie Beams to BF16b	14	16-Dec-15 A	08-Jan-16 A
PCB-02-32790	Backfilling to Tie Beams to BF16a	4	20-Jan-16 A	01-Feb-16
PCB-02-32800	Backfilling to Tie Beams to BF16b	4	20-Jan-16 A	01-Feb-16
PCB-02-22860	PCB - Base Slab (GL4.2 to 5.2) F-E.5 - 565m³ Pour BS16	17	03-Feb-16	29-Feb-16
PCB-02-22920	PCB - Basement Ext Walls BS16	12	01-Mar-16	14-Mar-16
PCB-02-32210	Columns above BS16	14	11-Mar-16	26-Mar-16
Zone C3		48	04-Jan-16 A	19-Mar-16
BF13 Stage 1		18	04-Jan-16 A	06-Feb-16
PCB-02-32570	Pile Cropping to BF13 Stage 1	6	04-Jan-16 A	08-Jan-16 A
PCB-02-29550	Pile Caps & Tie Beams to BF13 Stage 1	8	19-Jan-16 A	02-Feb-16
PCB-02-32610	Backfilling to Tie Beams to BF13 Stage 1	4	03-Feb-16	06-Feb-16



Actual Work
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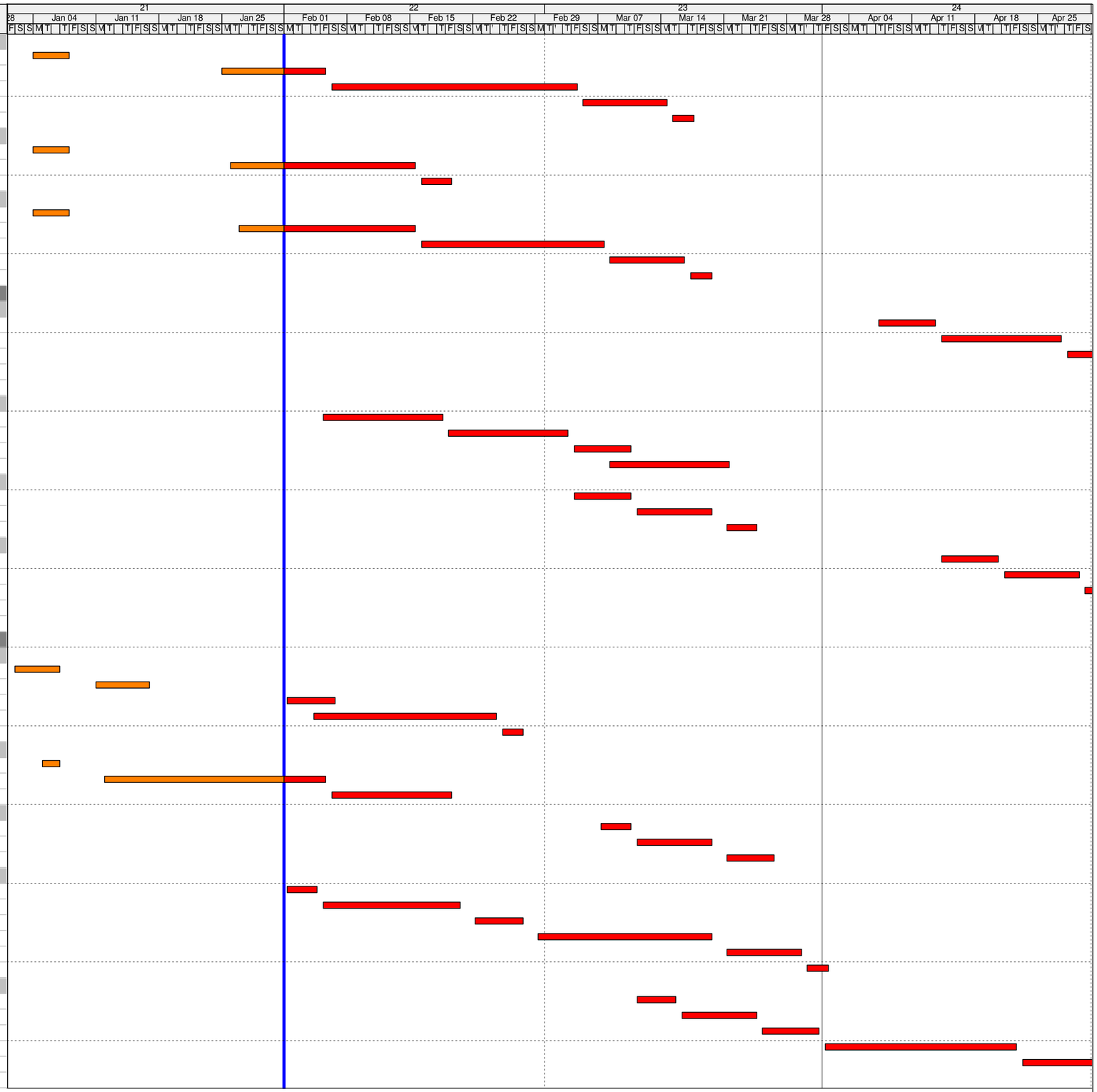
3 MONTHS ROLLING PROGRAMME

Date	Revision	Checked	Approved

Activity ID	Activity Name	Original Duration	Start	Finish
BF13 Stage 2		46	04-Jan-16 A	17-Mar-16
PCB-02-32580	Pile Cropping to BF13 Stage 2	6	04-Jan-16 A	08-Jan-16 A
PCB-02-31730	Pile Caps & Tie Beams to BF13 Stage 2	8	25-Jan-16 A	05-Feb-16
PCB-02-21780	PCB - Base Slab (GL2.2 to 3.2) G-F - 547m³ Pour BS13	18	06-Feb-16	04-Mar-16
PCB-02-22900	PCB - Basement Ext Walls to BS13 (Rqd for GS18)	8	05-Mar-16	14-Mar-16
PCB-02-23420	PCB - Backfilling to Ground Level at Basement Ext Walls BS13	3	15-Mar-16	17-Mar-16
BF14 Stage 1		17	04-Jan-16 A	19-Feb-16
PCB-02-32590	Pile Cropping to BF14 Stage 1	6	04-Jan-16 A	08-Jan-16 A
PCB-02-29560	Pile Caps & Tie Beams to BF14 Stage 1	8	26-Jan-16 A	15-Feb-16
PCB-02-32620	Backfilling to Tie Beams to BF14 Stage 1	4	16-Feb-16	19-Feb-16
BF14 Stage 2		48	04-Jan-16 A	19-Mar-16
PCB-02-32600	Pile Cropping to BF14 Stage 2	6	04-Jan-16 A	08-Jan-16 A
PCB-02-31740	Pile Caps & Tie Beams to BF14 Stage 2	8	27-Jan-16 A	15-Feb-16
PCB-02-21820	PCB - Base Slab (GL1.2 to 2.2) F-E.5 - 562m³ Pour BS14	18	16-Feb-16	07-Mar-16
PCB-02-23130	PCB - Basement Ext Walls to BS14	8	08-Mar-16	16-Mar-16
PCB-02-23310	PCB - Backfilling to Ground Level at Basement Ext Walls BS14 (Rqd for BS28	3	17-Mar-16	19-Mar-16
Zone W3		95	05-Feb-16	04-Jun-16
BS19		47	07-Apr-16	02-Jun-16
PCB-02-32500	Pile Cropping to BF19	6	07-Apr-16	13-Apr-16
PCB-02-22610	Pile Caps & Tie Beams to BF19	12	14-Apr-16	27-Apr-16
PCB-02-21900	PCB - Base Slab Pour BS19	18	28-Apr-16	20-May-16
PCB-02-23110	PCB - Basement Ext Walls to BS19 (COMPLETION DRIVES SERVICE TREN	8	21-May-16	30-May-16
PCB-02-23300	PCB - Backfilling to Ground Level at Basement Ext Walls BS19 (Rqd for BS28	3	31-May-16	02-Jun-16
BS20		33	05-Feb-16	21-Mar-16
PCB-02-32510	Pile Cropping to BF20	6	05-Feb-16	18-Feb-16
PCB-02-22520	Pile Caps & Tie Beams to BF20 Mega Pile Cap Gridline C-D West	12	19-Feb-16	03-Mar-16
PCB-02-32540	Columns above BS20	6	04-Mar-16	10-Mar-16
PCB-02-32550	PCB - Basement Ext Walls to BS20	12	08-Mar-16	21-Mar-16
BF21 Stage 1		18	04-Mar-16	24-Mar-16
PCB-02-32520	Pile Cropping to BF21 Stage 1	6	04-Mar-16	10-Mar-16
PCB-02-29770	Pile Caps & Tie Beams to BF21 Stage 1	8	11-Mar-16	19-Mar-16
PCB-02-32560	Backfilling to Tie Beams to BF21 Stage 1	4	21-Mar-16	24-Mar-16
BF21 Stage 2		43	14-Apr-16	04-Jun-16
PCB-02-32530	Pile Cropping to BF21 Stage 2	6	14-Apr-16	20-Apr-16
PCB-02-31750	Pile Caps & Tie Beams to BF21 Stage 2	8	21-Apr-16	29-Apr-16
PCB-02-21920	PCB - Base Slab Pour BS21	18	30-Apr-16	23-May-16
PCB-02-22940	PCB - Basement Ext Walls BS21 (COMPLETION DRIVES SERVICE TRENCI	8	24-May-16	01-Jun-16
PCB-02-23200	PCB - Backfilling to Ground Level at Basement Ext Walls BS21 (Rqd for BS30	3	02-Jun-16	04-Jun-16
Zone E3		97	02-Jan-16 A	06-May-16
BS23		40	02-Jan-16 A	27-Feb-16
PCB-02-32350	Pile Cropping to BF23 Mega Pile Cap	4	02-Jan-16 A	07-Jan-16 A
PCB-02-32360	Pile Caps & Tie Beams to BF02 Mega Pile Cap and Base Slab Gridline H-G W	12	11-Jan-16 A	17-Jan-16 A
PCB-02-32370	Columns above BS02	6	01-Feb-16	06-Feb-16
PCB-02-32380	PCB - Basement Ext Walls to BS02	12	04-Feb-16	24-Feb-16
PCB-02-23160	PCB - Backfilling to Ground Level at Basement Ext Walls BS23	3	25-Feb-16	27-Feb-16
BS22 Stage 1		23	05-Jan-16 A	19-Feb-16
PCB-02-32390	Pile Cropping to BF22 Pile Caps Stage 1	4	05-Jan-16 A	07-Jan-16 A
PCB-02-29680	Pile Caps & Tie Beams to BF22 Stage 1	8	12-Jan-16 A	05-Feb-16
PCB-02-32430	Waterproofing and Backfilling to Tie Beams to BF09 Stage 1	6	06-Feb-16	19-Feb-16
BS24 Stage 1		18	07-Mar-16	26-Mar-16
PCB-02-32400	Pile Cropping to BF24 Pile Caps Stage 1	4	07-Mar-16	10-Mar-16
PCB-02-29690	Pile Caps & Tie Beams to BF24 Stage 1	8	11-Mar-16	19-Mar-16
PCB-02-32440	Waterproofing and Backfilling to Tie Beams to BF09 Stage 1	6	21-Mar-16	26-Mar-16
BS22 Stage 2		47	01-Feb-16	01-Apr-16
PCB-02-32420	Pile Cropping to BF22 Pile Caps Stage 2	4	01-Feb-16	04-Feb-16
PCB-02-31760	Pile Caps & Tie Beams to BF22 Stage 2	8	05-Feb-16	20-Feb-16
PCB-02-32460	Waterproofing and Backfilling to Tie Beams to BF09 Stage 1	6	22-Feb-16	27-Feb-16
PCB-02-21910	PCB - Base Slab (GL4.2 to 5.2) D.5-C.5 - 508m³ Pour BS22	18	29-Feb-16	19-Mar-16
PCB-02-23120	PCB - Basement Ext Walls BS22 (COMPLETION DRIVES SERVICE TRENCI	8	21-Mar-16	29-Mar-16
PCB-02-23240	PCB - Backfilling to Ground Level at Basement Ext Walls BS22 (Rqd for BS29	3	30-Mar-16	01-Apr-16
BS24 Stage 2		47	11-Mar-16	06-May-16
PCB-02-32410	Pile Cropping to BF24 Pile Caps Stage 2	4	11-Mar-16	15-Mar-16
PCB-02-31770	Pile Caps & Tie Beams to BF24 Stage 2	8	16-Mar-16	24-Mar-16
PCB-02-32450	Waterproofing and Backfilling to Tie Beams to BF09 Stage 1	6	25-Mar-16	31-Mar-16
PCB-02-21930	PCB - Base Slab (GLGL0.2 to 1.2) C.5-B.5 - 508m³ Pour BS24	18	01-Apr-16	22-Apr-16
PCB-02-23100	PCB - Basement Ext Walls BS24 (COMPLETION DRIVES SERVICE TRENCI	8	23-Apr-16	03-May-16
PCB-02-23170	PCB - Backfilling to Ground Level at Basement Ext Walls BS24 (Rqd for BS31	3	04-May-16	06-May-16



Actual Work
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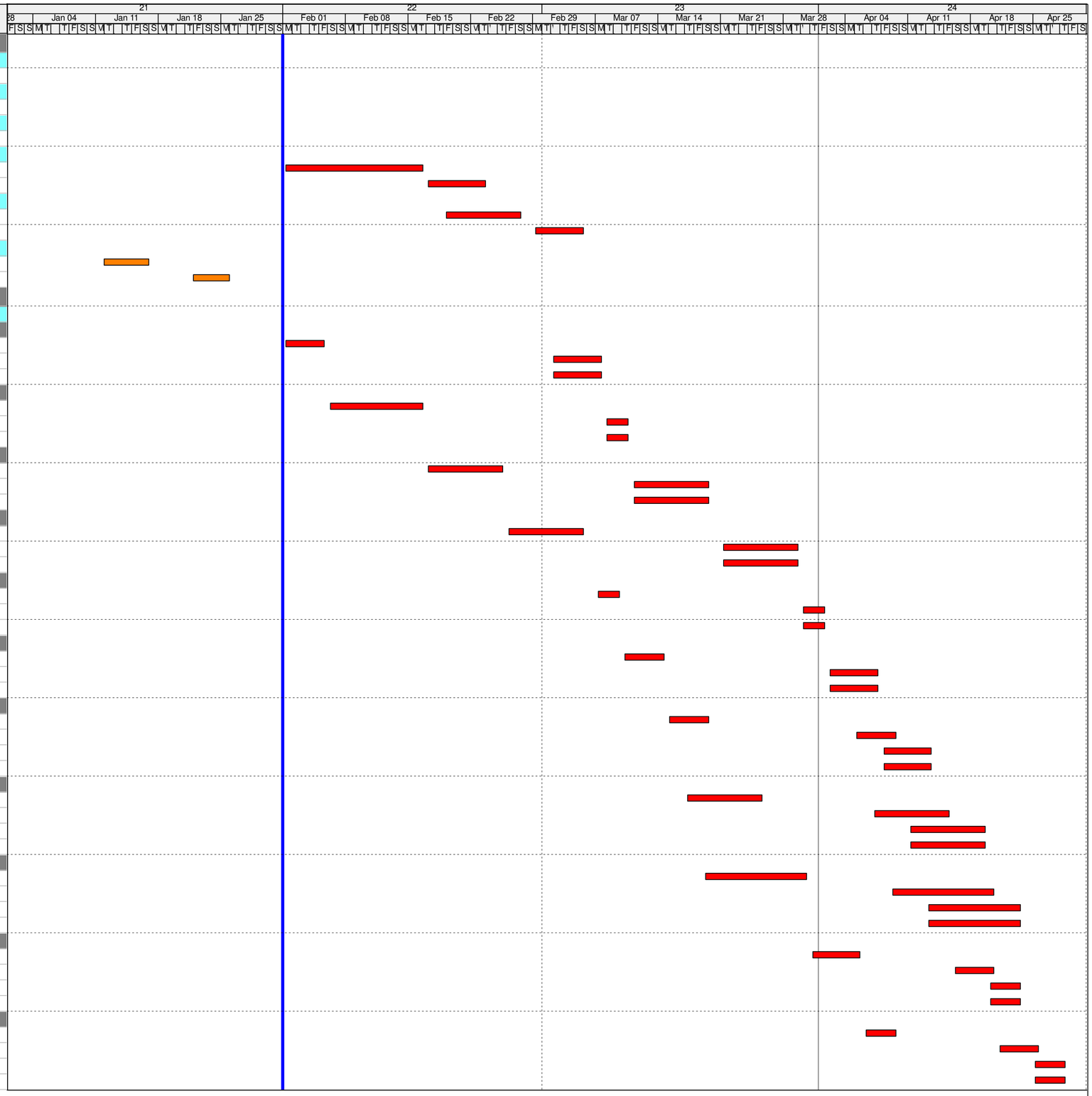
3 MONTHS ROLLING PROGRAMME

Date	Revision	Checked	Approved

Activity ID	Activity Name	Original Duration	Start	Finish
Tower Cranes		124	02-Sep-15 A	05-Mar-16
Tower Crane No.4 - SOUTH WEST		6	23-Nov-15 A	27-Nov-15 A
PCB-02-22080	PCB(A1) - Erect Tower Crane TC4	6	23-Nov-15 A	27-Nov-15 A
Tower Crane No.6 - SOUTH EAST		8	02-Sep-15 A	05-Sep-15 A
PCB-02-22010	PCB(A1) - Construct Tower Crane Footings TC6	8	02-Sep-15 A	05-Sep-15 A
Tower Crane No.5 - SOUTH MIDDLE		6	30-Nov-15 A	10-Dec-15 A
PCB-02-22050	PCB(A1) - Erect Tower Crane TC5	6	30-Nov-15 A	10-Dec-15 A
Tower Crane No.2 - NORTH MIDDLE		14	01-Feb-16	23-Feb-16
PCB-02-22160	PCB(A1) - Construct Tower Crane Footings TC2	8	01-Feb-16	16-Feb-16
PCB-02-22170	PCB(A1) - Erect Tower Crane TC2	6	17-Feb-16	23-Feb-16
Tower Crane No.1 - NORTH WEST		14	19-Feb-16	05-Mar-16
PCB-02-22210	PCB(A1) - Construct Tower Crane Footings TC1	8	19-Feb-16	27-Feb-16
PCB-02-22200	PCB(A1) - Erect Tower Crane TC1	6	29-Feb-16	05-Mar-16
Tower Crane No.3 - NORTH EAST		18	12-Jan-16 A	26-Jan-16 A
PCB-02-22130	PCB(A1) - Construct Tower Crane Footings TC3	8	12-Jan-16 A	17-Jan-16 A
PCB-02-22120	PCB(A1) - Erect Tower Crane TC3	6	22-Jan-16 A	26-Jan-16 A
Superstructure		143	23-Nov-15 A	10-Jun-16
Ground Floor Foundations South		86	01-Feb-16	20-May-16
Excavation for Service Troughs		25	01-Feb-16	07-Mar-16
PCB-02-24870	PCB - Excavation for Service Trench BS26	5	01-Feb-16	05-Feb-16
PCB-02-24450	PCB - Excavation for Service Trench BS25	5	02-Mar-16	07-Mar-16
PCB-02-24880	PCB - Excavation for Service Trench BS27	5	02-Mar-16	07-Mar-16
Waterproofing Trench Base slab		23	06-Feb-16	10-Mar-16
PCB-02-24920	PCB - Waterproofing Trench Base Slab B26	3	06-Feb-16	16-Feb-16
PCB-02-24890	PCB - Waterproofing Trench Base Slab B27	3	08-Mar-16	10-Mar-16
PCB-02-24910	PCB - Waterproofing Trench Base Slab B25	3	08-Mar-16	10-Mar-16
Service Trough Slabs		28	17-Feb-16	19-Mar-16
PCB-02-21960	PCB - Service Trench Base Slab (GL4.2 to 5.2) H-G - 134m³ Pour BS26	8	17-Feb-16	25-Feb-16
PCB-02-21940	PCB - Service Trench Base Slab (GL4.2 to 5.2) H - 72m³ Pour BS27	8	11-Mar-16	19-Mar-16
PCB-02-21950	PCB - Service Trench Base Slab (GL4.2 to 5.2) H - 134m³ Pour BS25	8	11-Mar-16	19-Mar-16
Service Trough Walls		28	26-Feb-16	29-Mar-16
PCB-02-22980	PCB - Basement Ext Walls to BS26	8	26-Feb-16	05-Mar-16
PCB-02-22990	PCB - Basement Ext Walls to BS25	8	21-Mar-16	29-Mar-16
PCB-02-23000	PCB - Basement Ext Walls to BS27	8	21-Mar-16	29-Mar-16
Waterproofing Trench Walls		23	07-Mar-16	01-Apr-16
PCB-02-24980	PCB - Waterproofing to BS26 Walls	3	07-Mar-16	09-Mar-16
PCB-02-24960	PCB - Waterproofing to BS27 Walls	3	30-Mar-16	01-Apr-16
PCB-02-24970	PCB - Waterproofing to BS25 Walls	3	30-Mar-16	01-Apr-16
Backfilling behind Service Trough Walls		24	10-Mar-16	07-Apr-16
PCB-02-23430	PCB - Backfilling to Ground Level at Basement Ext Walls BS26	4	10-Mar-16	14-Mar-16
PCB-02-23320	PCB - Backfilling to Ground Level at Basement Ext Walls BS25	4	02-Apr-16	07-Apr-16
PCB-02-23440	PCB - Backfilling to Ground Level at Basement Ext Walls BS27	4	02-Apr-16	07-Apr-16
Excavate for Pile Caps and Beams		25	15-Mar-16	13-Apr-16
PCB-02-24940	PCB - Excavate Pile caps and Beams GF03	5	15-Mar-16	19-Mar-16
PCB-02-24930	PCB - Excavate Pile caps and Beams GF01	5	05-Apr-16	09-Apr-16
PCB-02-24900	PCB - Excavate Pile caps and Beams GF02	5	08-Apr-16	13-Apr-16
PCB-02-24950	PCB - Excavate Pile caps and Beams GF04	5	08-Apr-16	13-Apr-16
Pile Cropping		28	17-Mar-16	19-Apr-16
PCB-02-23550	Pile Cropping to GF03	8	17-Mar-16	25-Mar-16
PCB-02-23490	Pile Cropping to GF01	8	07-Apr-16	15-Apr-16
PCB-02-23520	Pile Cropping to GF02	8	11-Apr-16	19-Apr-16
PCB-02-23580	Pile Cropping to GF04	8	11-Apr-16	19-Apr-16
Pile Capping		30	19-Mar-16	23-Apr-16
PCB-02-23560	Pile Caps and Tie Beams to GF03	10	19-Mar-16	30-Mar-16
PCB-02-23500	Pile Caps and Tie Beams to GF01	10	09-Apr-16	20-Apr-16
PCB-02-23530	Pile Caps and Tie Beams to GF02	10	13-Apr-16	23-Apr-16
PCB-02-23590	Pile Caps and Tie Beams to GF04	10	13-Apr-16	23-Apr-16
Water Proofing		20	31-Mar-16	23-Apr-16
PCB-02-24790	Waterproofing Pile Caps and Tie Beams to GF03	4	31-Mar-16	05-Apr-16
PCB-02-24770	Waterproofing Pile Caps and Tie Beams to GF01	4	16-Apr-16	20-Apr-16
PCB-02-24780	Waterproofing Pile Caps and Tie Beams to GF02	4	20-Apr-16	23-Apr-16
PCB-02-24800	Waterproofing Pile Caps and Tie Beams to GF04	4	20-Apr-16	23-Apr-16
Backfilling to Top Level of Ground Beams (+5.0mPD Generally)		20	06-Apr-16	28-Apr-16
PCB-02-23570	Backfilling to Tie Beams to GF03	4	06-Apr-16	09-Apr-16
PCB-02-23510	Backfilling to Tie Beams to GF01	4	21-Apr-16	25-Apr-16
PCB-02-23540	Backfilling to Tie Beams to GF02	4	25-Apr-16	28-Apr-16
PCB-02-23600	Backfilling to Tie Beams to GF04	4	25-Apr-16	28-Apr-16



Actual Work
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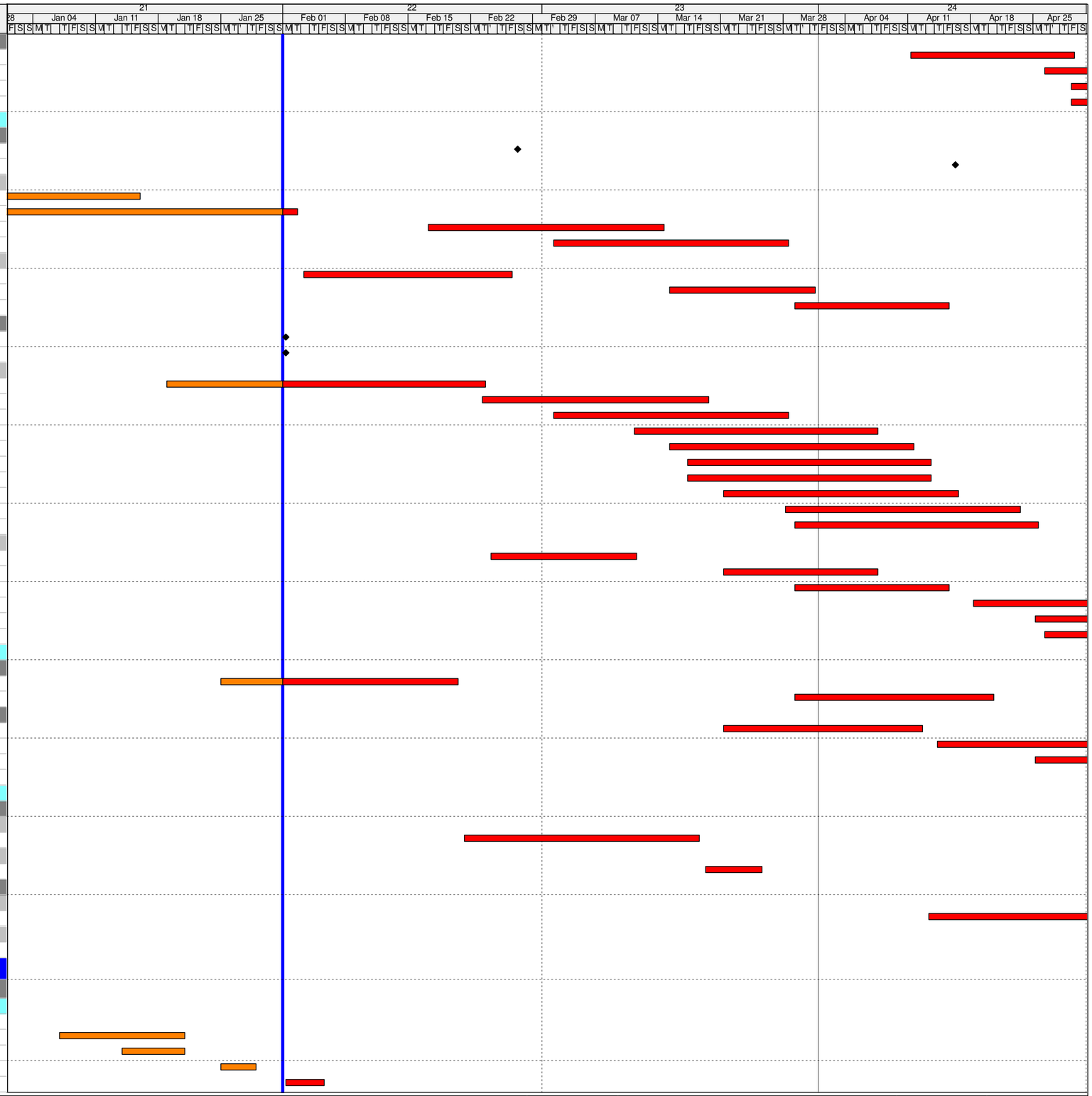
3 MONTHS ROLLING PROGRAMME

Date	Revision	Checked	Approved

Activity ID	Activity Name	Original Duration	Start	Finish
Ground Slabs (+5.450mPD)		33	11-Apr-16	20-May-16
PCB-02-21520	Construct Ground Floor Base Slab GS21 - 916m³	17	11-Apr-16	29-Apr-16
PCB-02-21500	Construct Ground Floor Base Slab GS20 - 916m³	17	26-Apr-16	17-May-16
PCB-02-21510	Construct Ground Floor Base Slab GS18 - 470m³	17	29-Apr-16	20-May-16
PCB-02-21530	Construct Ground Floor Base Slab GS19 - 940m³	17	29-Apr-16	20-May-16
Ground Floor Slabs (+5.450mPD)		121	23-Nov-15 A	13-May-16
SOUTH - Gridline J-G		98	23-Nov-15 A	16-Apr-16
PCB-AB-A0010	Earliest Commencement of ABWF/MEP in Basement SOUTH EAST	0	27-Feb-16	
PCB-AB-A0020	Earliest Commencement of ABWF/MEP in Basement SOUTH WEST	0	16-Apr-16	
Suspended Slabs (+5.450mPD)		83	23-Nov-15 A	28-Mar-16
PCB-02-32910	Construct Ground Floor Suspended Slab Pour GS03b - 137m³	23	08-Dec-15 A	16-Jan-16 A
PCB-02-21560	Construct Ground Floor Suspended Slab Pour GS03a - 100m³	23	23-Nov-15 A	02-Feb-16
PCB-02-21540	Construct Ground Floor Suspended Slab Pour GS01 - 81m³	23	17-Feb-16	14-Mar-16
PCB-02-21550	Construct Ground Floor Suspended Slab Pour GS02 - 182m³	23	02-Mar-16	28-Mar-16
Cure and Strip Suspended Slabs		56	03-Feb-16	15-Apr-16
PCB-02-21570	Cure & Strip Ground Floor Suspended Slab Pour GS03	15	03-Feb-16	26-Feb-16
PCB-02-21590	Cure & Strip Ground Floor Suspended Slab Pour GS01	15	15-Mar-16	31-Mar-16
PCB-02-21600	Cure & Strip Ground Floor Suspended Slab Pour GS02	15	29-Mar-16	15-Apr-16
MIDDLE - Gridline G-E		87	19-Jan-16 A	13-May-16
PCB-AB-A0040	Earliest Commencement of ABWF/MEP in Basement MIDDLE WEST	0	01-Feb-16	
PCB-AB-A0030	Earliest Commencement of ABWF/MEP in Basement MIDDLE EAST	0	01-Feb-16	
Suspended Slabs (+5.450mPD)		72	19-Jan-16 A	25-Apr-16
PCB-02-21430	Construct Ground Floor Suspended Slab Pour GS05 - 160m³	23	19-Jan-16 A	23-Feb-16
PCB-02-25130	Construct Ground Floor Suspended Slab Pour GS07 - 186m³	23	23-Feb-16	19-Mar-16
PCB-02-21390	Construct Ground Floor Suspended Slab Pour GS11 - 186m³	23	02-Mar-16	28-Mar-16
PCB-02-21350	Construct Ground Floor Suspended Slab Pour GS04 - 160m³	23	11-Mar-16	07-Apr-16
PCB-02-21370	Construct Ground Floor Suspended Slab Pour GS09 - 184m³	23	15-Mar-16	11-Apr-16
PCB-02-21360	Construct Ground Floor Suspended Slab Pour GS06 - 186m³	23	17-Mar-16	13-Apr-16
PCB-02-21380	Construct Ground Floor Suspended Slab Pour GS08 - 215m³	23	17-Mar-16	13-Apr-16
PCB-02-21410	Construct Ground Floor Suspended Slab Pour GS12 - 215m³	23	21-Mar-16	16-Apr-16
PCB-02-21400	Construct Ground Floor Suspended Slab Pour GS10 - 200m³	23	28-Mar-16	23-Apr-16
PCB-02-21420	Construct Ground Floor Suspended Slab Pour GS13 - 184m³	23	29-Mar-16	25-Apr-16
Cure and Strip Suspended Slabs		67	24-Feb-16	13-May-16
PCB-02-32640	Cure & Strip Ground Floor Suspended Slab Pour GS07	15	24-Feb-16	11-Mar-16
PCB-02-32630	Cure & Strip Ground Floor Suspended Slab Pour GS05	15	21-Mar-16	07-Apr-16
PCB-02-32670	Cure & Strip Ground Floor Suspended Slab Pour GS11	15	29-Mar-16	15-Apr-16
PCB-02-32660	Cure & Strip Ground Floor Suspended Slab Pour GS12	15	18-Apr-16	05-May-16
PCB-02-32680	Cure & Strip Ground Floor Suspended Slab Pour GS10	15	25-Apr-16	12-May-16
PCB-02-32650	Cure & Strip Ground Floor Suspended Slab Pour GS13	15	26-Apr-16	13-May-16
Columns to Mezzanine Slab (+10.250mPD)		101	25-Jan-16 A	10-Jun-16
SOUTH - Gridline J-G		60	25-Jan-16 A	20-Apr-16
PCB-02-20730	Construct Columns to Mezz Floor MS04	19	25-Jan-16 A	20-Feb-16
PCB-02-20720	Construct Columns to Mezz Floor MS01	19	29-Mar-16	20-Apr-16
MIDDLE - Gridline G-E		67	21-Mar-16	10-Jun-16
PCB-02-20780	Construct Columns to Mezz Floor MS05	19	21-Mar-16	12-Apr-16
PCB-02-20770	Construct Columns to Mezz Floor MS02	19	14-Apr-16	06-May-16
PCB-02-20790	Construct Columns to Mezz Floor MS07	19	25-Apr-16	18-May-16
PCB-02-20760	Construct Columns to Mezz Floor MS08	19	19-May-16	10-Jun-16
Mezzanine Floor Slabs (+10.250mPD)		86	21-Feb-16	16-May-16
SOUTH - Gridline J-G		34	21-Feb-16	25-Mar-16
Suspended Slabs		27	21-Feb-16	18-Mar-16
PCB-02-21110	Construct Mezzanine Floor Slab Cabin Pour MS04 - 325m³	27	21-Feb-16	18-Mar-16
Cure and Strip		7	19-Mar-16	25-Mar-16
PCB-02-21130	Cure & Strip Mezzanine Floor Slab Cabin Pour MS04	7	19-Mar-16	25-Mar-16
MIDDLE - Gridline G-E		34	13-Apr-16	16-May-16
Suspended Slabs		27	13-Apr-16	09-May-16
PCB-02-20990	Construct Mezzanine Floor Slab Pour MS05 - 327m³	27	13-Apr-16	09-May-16
Cure and Strip		7	10-May-16	16-May-16
PCB-02-21020	Cure & Strip Mezzanine Floor Slab Pour MS05	7	10-May-16	16-May-16
Gridline K		150	06-Aug-15 A	25-Apr-16
Gridline K - RC Works (5 Mega Columns)		150	06-Aug-15 A	25-Apr-16
K5 (to +19.0mPD)		90	10-Aug-15 A	23-Feb-16
PCB-02-26610	Break Piles to Cut Off Level (+2.08mPD) and Blind - K5	3	10-Aug-15 A	13-Aug-15 A
PCB-02-26620	Construct Pile Cap (Gridline K) - K5	6	07-Jan-16 A	21-Jan-16 A
PCB-02-30510	Construct Tie Beams between J-K5	6	14-Jan-16 A	21-Jan-16 A
PCB-02-26630	PCB - Mega Columns K 1st Lift - K5	4	25-Jan-16 A	29-Jan-16 A
PCB-ZZ-4660	PCB - Mega Columns K 2nd and 3rd Lift - K5	5	01-Feb-16	05-Feb-16



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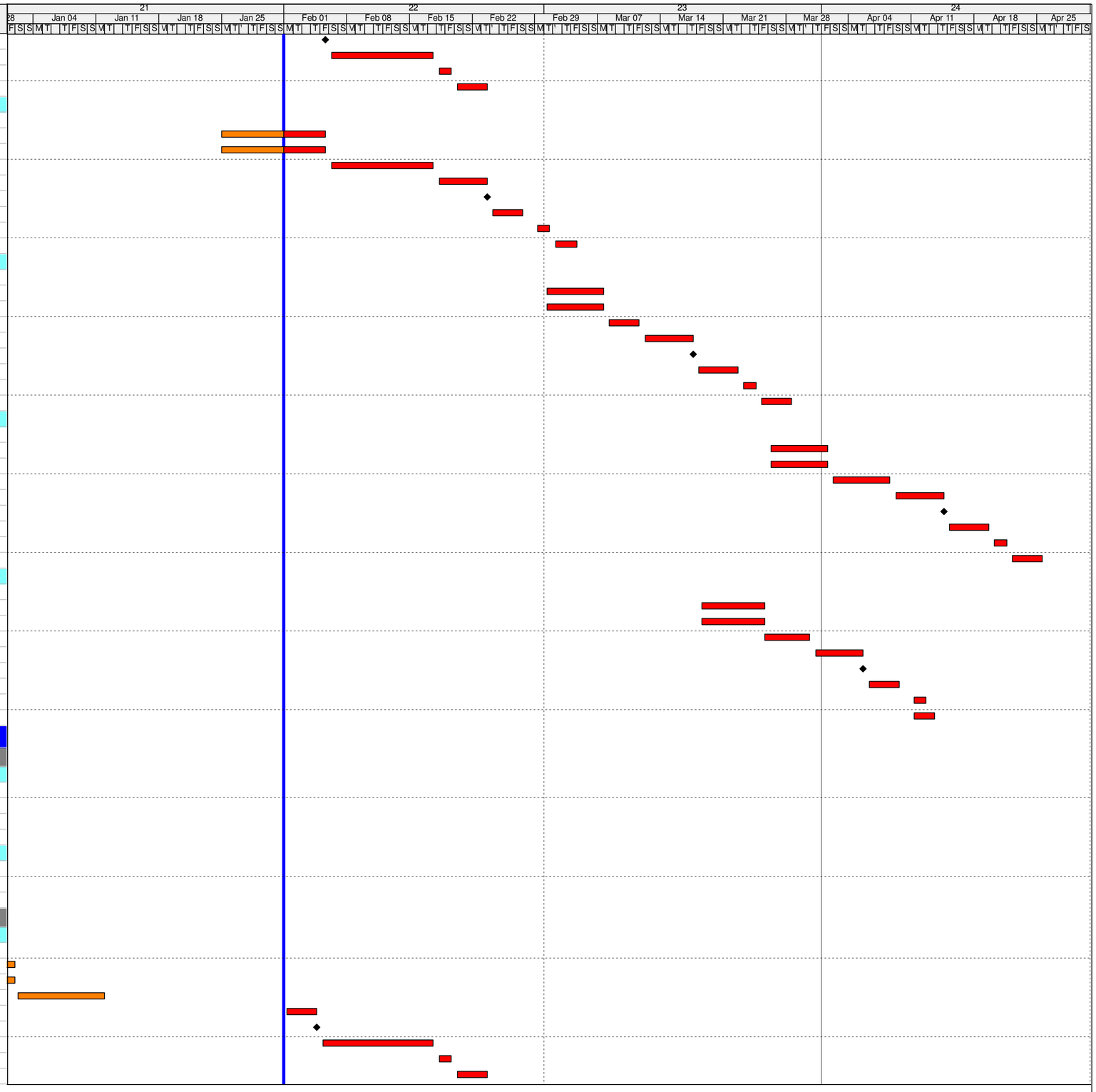
3 MONTHS ROLLING PROGRAMME

Date	Revision	Checked	Approved

Activity ID	Activity Name	Original Duration	Start	Finish
PCB-ZZ-4670	Installation of CHS Cast in	0		05-Feb-16
PCB-ZZ-4930	PCB - Mega Columns K Taper Lift - K5	4	06-Feb-16	17-Feb-16
PCB-ZZ-4910	Minimum Curing 2d of K5	2	18-Feb-16	19-Feb-16
PCB-02-26640	PCB - Backfilling up to Ground Level - K5	3	20-Feb-16	23-Feb-16
K4 (to +19.0mPD)		107	06-Aug-15 A	04-Mar-16
PCB-02-26570	Break Piles to Cut Off Level (+2.08mPD) and Blind - K4	3	06-Aug-15 A	10-Aug-15 A
PCB-02-30550	Construct Tie Beams between J-K4	6	25-Jan-16 A	05-Feb-16
PCB-02-26580	Construct Pile Cap (Gridline K) - K4	6	25-Jan-16 A	05-Feb-16
PCB-02-26590	PCB - Mega Columns K 1st Lift - K4	4	06-Feb-16	17-Feb-16
PCB-ZZ-4640	PCB - Mega Columns K 2nd and 3rd Lift - K4	5	18-Feb-16	23-Feb-16
PCB-ZZ-5040	Installation of CHS Cast in	0		23-Feb-16
PCB-ZZ-4970	PCB - Mega Columns K Taper Lift - K4	4	24-Feb-16	27-Feb-16
PCB-ZZ-4900	Minimum Curing 2d of K4	2	29-Feb-16	01-Mar-16
PCB-02-26600	PCB - Backfilling up to Ground Level - K4	3	02-Mar-16	04-Mar-16
K3 (to +19.0mPD)		111	19-Oct-15 A	28-Mar-16
PCB-02-26530	Break Piles to Cut Off Level (+2.08mPD) and Blind - K3	3	19-Oct-15 A	24-Oct-15 A
PCB-02-26540	Construct Pile Cap (Gridline K) - K3	6	01-Mar-16*	07-Mar-16
PCB-02-32890	Construct Tie Beams between J-K4	6	01-Mar-16	07-Mar-16
PCB-02-26550	PCB - Mega Columns K 1st Lift - K3	4	08-Mar-16	11-Mar-16
PCB-ZZ-4620	PCB - Mega Columns K 2nd and 3rd Lift - K3	5	12-Mar-16	17-Mar-16
PCB-ZZ-5050	Installation of CHS Cast in	0		17-Mar-16
PCB-ZZ-4990	PCB - Mega Columns K Taper Lift - K3	4	18-Mar-16	22-Mar-16
PCB-ZZ-4890	Minimum Curing 2d of K3	2	23-Mar-16	24-Mar-16
PCB-02-26560	PCB - Backfilling up to Ground Level - K3	3	25-Mar-16	28-Mar-16
K1 (to +19.0mPD)		49	31-Oct-15 A	25-Apr-16
PCB-02-2120	Break Piles to Cut Off Level (+2.08mPD) and Blind - K1	3	31-Oct-15 A	04-Nov-15 A
PCB-02-2125	Construct Pile Cap (Gridline K) - K1	6	26-Mar-16*	01-Apr-16
PCB-02-30520	Construct Tie Beams - J-K1	6	26-Mar-16	01-Apr-16
PCB-02-2185	PCB - Mega Columns K 1st Lift - K1	5	02-Apr-16	08-Apr-16
PCB-ZZ-4110	PCB - Mega Columns K 2nd and 3rd Lift - K1	5	09-Apr-16	14-Apr-16
PCB-ZZ-5090	Installation of CHS Cast in	0		14-Apr-16
PCB-ZZ-5110	PCB - Mega Columns K Taper Lift - K1	4	15-Apr-16	19-Apr-16
PCB-ZZ-4870	Minimum Curing 2d of K1	2	20-Apr-16	21-Apr-16
PCB-02-2190	PCB - Backfilling up to Ground Level - K1	3	22-Apr-16	25-Apr-16
K2 (to +19.0mPD)		129	12-Oct-15 A	13-Apr-16
PCB-02-26490	Break Piles to Cut Off Level (+2.08mPD) and Blind - K2	3	12-Oct-15 A	17-Oct-15 A
PCB-02-26500	Construct Pile Cap (Gridline K) - K2	6	18-Mar-16*	25-Mar-16
PCB-02-30530	Construct Tie Beams - J-K2	6	18-Mar-16	25-Mar-16
PCB-02-26510	PCB - Mega Columns K 1st Lift - K2	4	25-Mar-16	30-Mar-16
PCB-ZZ-4600	PCB - Mega Columns K 2nd and 3rd Lift - K2	4	31-Mar-16	05-Apr-16
PCB-ZZ-5120	Installation of CHS Cast in	0		05-Apr-16
PCB-ZZ-5140	PCB - Mega Columns K Taper Lift - K2	4	06-Apr-16	09-Apr-16
PCB-ZZ-4880	Minimum Curing 2d of K2	2	11-Apr-16	12-Apr-16
PCB-02-26520	PCB - Backfilling up to Ground Level - K2	3	11-Apr-16	13-Apr-16
Gridline J		543	27-May-14 A	07-May-16
Gridline J - Bored Piling Works		397	27-May-14 A	12-Feb-15 A
Gridline J (9 Piles) - Tysan		271	27-May-14 A	09-Feb-15 A
PCB-02-1120	GL J - Pre-Drilling 9 number x 3 Rig	18	27-May-14 A	07-Jul-14 A
PCB-02-11240	GL J - Bored Piling 4 Number - Tysan RIG 1	60	03-Oct-14 A	11-Dec-14 A
PCB-02-11250	GL J - Bored Piling 5 Number - Tysan RIG 2	74	13-Oct-14 A	09-Jan-15 A
PCB-02-1170	GL J - Bored Pile Testing 9 number	49	12-Jan-15 A	09-Feb-15 A
Gridline J (6 Piles) - Chun Wo		397	27-May-14 A	12-Feb-15 A
PCB-02-1570	GL J - Pre-Drilling 6 number x 3 Rigs	12	27-May-14 A	07-Jul-14 A
PCB-02-1450	GL J - Bored Piling 6 number - RIG 1	87	09-Oct-14 A	16-Jan-15 A
PCB-02-1390	GL J - Bored Pile Testing 6 number	85	29-Dec-14 A	12-Feb-15 A
Gridline J - RC Works (5 Mega Columns)		212	06-Aug-15 A	07-May-16
J5 (to +19.0mPD)		45	06-Aug-15 A	23-Feb-16
PCB-02-26450	Break Piles to Cut Off Level (+2.08mPD) and Blind - J5	3	06-Aug-15 A	10-Aug-15 A
PCB-02-26460	Construct Pile Caps - J5	6	17-Dec-15 A	02-Jan-16 A
PCB-02-32920	Construct Tie Beams - J5	6	23-Dec-15 A	02-Jan-16 A
PCB-02-26470	PCB - Mega Columns J 1st Lift - J5	6	02-Jan-16 A	12-Jan-16 A
PCB-ZZ-4580	PCB - Mega Columns J 2nd and 3rd Lift - J5	4	01-Feb-16	04-Feb-16
PCB-ZZ-5060	Installation of CHS Cast in	0		04-Feb-16
PCB-ZZ-4950	PCB - Mega Columns J Taper Lift - J5	5	05-Feb-16	17-Feb-16
PCB-ZZ-4820	Minimum Curing 2d of J5	2	18-Feb-16	19-Feb-16
PCB-02-26480	PCB - Backfilling up to Ground Level - J5	3	20-Feb-16	23-Feb-16



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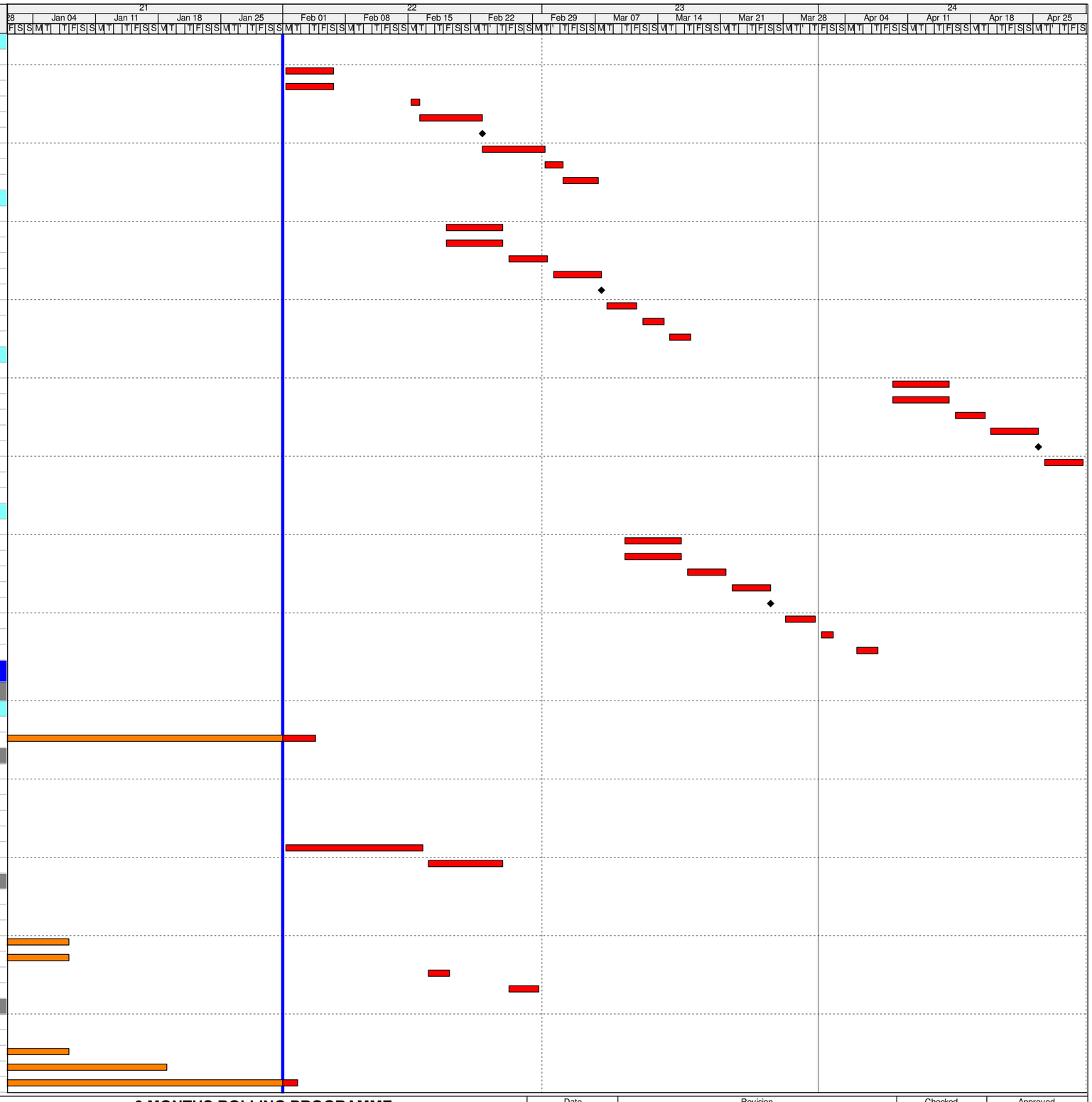
3 MONTHS ROLLING PROGRAMME

Date	Revision	Checked	Approved

Activity ID	Activity Name	Original Duration	Start	Finish
J4 (to +19.0mPD)		42	11-Aug-15 A	07-Mar-16
PCB-02-26410	Break Piles to Cut Off Level (+2.08mPD) and Blind - J4	3	11-Aug-15 A	15-Aug-15 A
PCB-02-26420	Construct Pile Caps - J4	6	01-Feb-16*	06-Feb-16
PCB-02-32930	Construct Tie Beams - J4	6	01-Feb-16	06-Feb-16
PCB-02-26430	PCB - Mega Columns J 1st Lift - J4	1	15-Feb-16	16-Feb-16
PCB-ZZ-4560	PCB - Mega Columns J 2nd and 3rd - J4	6	16-Feb-16	23-Feb-16
PCB-ZZ-5070	Installation of CHS Cast in	0		23-Feb-16
PCB-ZZ-5030	PCB - Mega Columns J Taper Lift - J4	6	23-Feb-16	01-Mar-16
PCB-ZZ-4830	Minimum Curing 2d of J4	2	01-Mar-16	03-Mar-16
PCB-02-26440	PCB - Backfilling up to Ground Level - J4	3	03-Mar-16	07-Mar-16
J3 (to +19.0mPD)		170	18-Aug-15 A	17-Mar-16
PCB-02-26370	Break Piles to Cut Off Level (+2.08mPD) and Blind - J3	0	18-Aug-15 A	21-Aug-15 A
PCB-02-26380	Construct Pile Caps - J3	6	19-Feb-16*	25-Feb-16
PCB-02-32940	Construct Tie Beams - J3	6	19-Feb-16	25-Feb-16
PCB-02-26390	PCB - Mega Columns J 1st Lift - J3	4	26-Feb-16	01-Mar-16
PCB-ZZ-4540	PCB - Mega Columns J 2nd and 3rd - J3	5	02-Mar-16	07-Mar-16
PCB-ZZ-5080	Installation of CHS Cast in	0		07-Mar-16
PCB-ZZ-5010	PCB - Mega Columns J Taper Lift - J3	4	08-Mar-16	11-Mar-16
PCB-ZZ-4840	Minimum Curing 3d of J3	2	12-Mar-16	14-Mar-16
PCB-02-26400	PCB - Backfilling up to Ground Level - J3	3	15-Mar-16	17-Mar-16
J1 (to +19.0mPD)		194	09-Sep-15 A	07-May-16
PCB-02-2170	Break Piles to Cut Off Level (+2.08mPD) and Blind - J1	3	09-Sep-15 A	12-Sep-15 A
PCB-02-2175	Construct Pile Caps - J1	6	09-Apr-16*	15-Apr-16
PCB-02-32950	Construct Tie Beams - J1	6	09-Apr-16	15-Apr-16
PCB-02-2180	PCB - Mega Columns J 1st Lift - J1	3	16-Apr-16	19-Apr-16
PCB-ZZ-4080	PCB - Mega Columns J 2nd and 3rd - J1	5	20-Apr-16	25-Apr-16
PCB-ZZ-5150	Installation of CHS Cast in	0		25-Apr-16
PCB-ZZ-5170	PCB - Mega Columns J Taper Lift - J1	5	26-Apr-16	30-Apr-16
PCB-ZZ-4860	Minimum Curing 2d of J1	2	03-May-16	04-May-16
PCB-02-2195	PCB - Backfilling up to Ground Level - J1	3	05-May-16	07-May-16
J2 (to +19.0mPD)		24	11-Sep-15 A	07-Apr-16
PCB-02-26330	Break Piles to Cut Off Level (+2.08mPD) and Blind - J2	3	11-Sep-15 A	15-Sep-15 A
PCB-02-26340	Construct Pile Caps - J2	6	10-Mar-16*	16-Mar-16
PCB-02-32960	Construct Tie Beams - J2	6	10-Mar-16	16-Mar-16
PCB-02-26350	PCB - Mega Columns J 1st Lift - J2	4	17-Mar-16	21-Mar-16
PCB-ZZ-4520	PCB - Mega Columns J 2nd and 3rd - J2	5	22-Mar-16	26-Mar-16
PCB-ZZ-5180	Installation of CHS Cast in	0		26-Mar-16
PCB-ZZ-5200	PCB - Mega Columns J Taper Lift - J2	4	28-Mar-16	31-Mar-16
PCB-ZZ-4850	Minimum Curing 2d of J2	2	01-Apr-16	02-Apr-16
PCB-02-26360	PCB - Backfilling up to Ground Level - J2	3	05-Apr-16	07-Apr-16
Southern Drop-Off Area		263	03-Aug-15 A	05-Aug-16
Southern Drop off Area - Pile Caps		212	03-Aug-15 A	04-Jun-16
Southern Drop Off Area - East		199	03-Aug-15 A	04-Jun-16
PCB-16-1380	DoA - EAST - Excavation and ELS for DoA East Pile Caps (24 No) and Gridlin	48	03-Aug-15 A	12-Sep-15 A
PCB-16-1390	DoA - EAST - Break down and make good piles to cut off level (+2.075mPD) (:	48	03-Aug-15 A	04-Feb-16
Pile Caps		116	03-Aug-15 A	25-Feb-16
PCB-16-1400	DoA - EAST - Construct Pile Caps Stage 1 (DC11,12,13) (to +4.0mPD)	8	11-Aug-15 A	03-Oct-15 A
PCB-16-1730	DoA - EAST - Construct Pile Caps Stage 2 (DC26,27,28) (to +4.0mPD)	8	11-Aug-15 A	23-Oct-15 A
PCB-16-1740	DoA - EAST - Construct Pile Caps Stage 3 (DC41,42,43) (to +4.0mPD)	8	03-Aug-15 A	13-Nov-15 A
PCB-16-1765	DoA - EAST - Construct Pile Caps Stage 5 (DC9,24,39) (to +4.0mPD)	8	17-Aug-15 A	03-Dec-15 A
PCB-16-1760	DoA - EAST - Construct Pile Caps Stage 4 (DC10,25,40) (to +4.0mPD)	8	17-Aug-15 A	10-Dec-15 A
PCB-16-1770	DoA - EAST - Construct Pile Caps Stage 6 (DC14,29,44) (to +4.0mPD)	8	01-Feb-16	16-Feb-16
PCB-16-1780	DoA - EAST - Construct Pile Caps Stage 7 (DC15,30,45) (to +4.0mPD)	8	17-Feb-16	25-Feb-16
Column 1st Lift		100	19-Oct-15 A	29-Feb-16
PCB-16-1395	DoA - EAST - Construct Column Kickers Stage 1 (DC11,12 & 13)	3	19-Oct-15 A	24-Oct-15 A
PCB-16-1410	DoA - EAST - Construct Column Kickers Stage 2 (DC26,27 & 28)	3	26-Oct-15 A	05-Nov-15 A
PCB-16-1690	DoA - EAST - Construct Column Kickers Stage 3 (DC41,42 & 43)	3	10-Dec-15 A	15-Dec-15 A
PCB-16-1710	DoA - EAST - Construct Column Kickers Stage 4 (DC10,25,40)	3	23-Nov-15 A	08-Jan-16 A
PCB-16-1720	DoA - EAST - Construct Column Kickers Stage 5 (DC9,24,39)	3	23-Nov-15 A	08-Jan-16 A
PCB-16-2070	DoA - EAST - Construct Column Kickers Stage 6 (DC14,29,44)	3	17-Feb-16*	19-Feb-16
PCB-16-2080	DoA - EAST - Construct Column Kickers Stage 7 (DC15,30,45)	3	26-Feb-16*	29-Feb-16
Columns, Piers and Bearings		100	26-Oct-15 A	14-Mar-16
PCB-16-1430	DoA - EAST - Construct Columns Stage 1 (to +11mPD) (DC11,12 & 13)	12	26-Oct-15 A	28-Nov-15 A
PCB-16-1620	DoA - EAST - Construct Columns Stage 2 (to +11mPD) (DC26,27 & 28)	12	26-Nov-15 A	23-Dec-15 A
PCB-16-1630	DoA - EAST - Construct Columns Stage 3 (to +11mPD) (DC41,42 & 43)	12	22-Dec-15 A	08-Jan-16 A
PCB-16-1640	DoA - EAST - Construct Columns Stage 4 (to +11mPD) (DC10,25,40)	12	07-Dec-15 A	19-Jan-16 A
PCB-16-1650	DoA - EAST - Construct Columns Stage 5 (to +11mPD) (DC9,24,39)	12	08-Dec-15 A	02-Feb-16

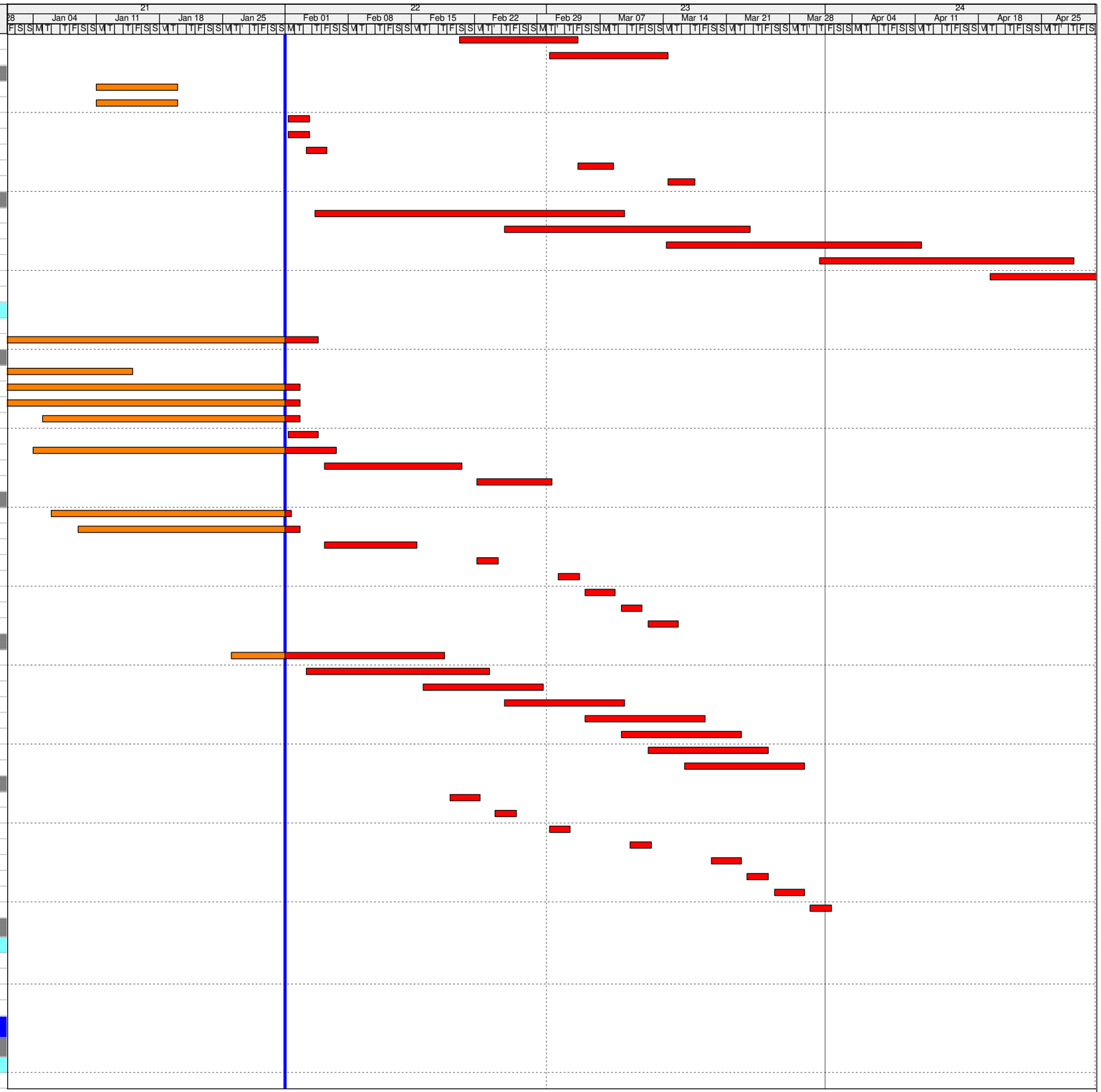


Actual Work
Remaining Work
Critical Remaining Work
Milestone

3 MONTHS ROLLING PROGRAMME

Date	Revision	Checked	Approved

Activity ID	Activity Name	Original Duration	Start	Finish
PCB-16-2170	DoA - EAST - Construct Columns Stage 6 (to +11mPD) (DC14,29,44)	12	20-Feb-16*	04-Mar-16
PCB-16-2180	DoA - EAST - Construct Columns Stage 7 (to +11mPD) (DC15,30,45)	12	01-Mar-16*	14-Mar-16
Backfilling		46	11-Jan-16 A	17-Mar-16
PCB-16-1800	DoA - EAST - Backfilling to Pile Caps Stage 1 (to +5.5mPD) (DC11,12 & 13)	3	11-Jan-16 A	20-Jan-16 A
PCB-16-1810	DoA - EAST - Backfilling to Pile Caps Stage 2 (to +5.5mPD) (DC26,27 & 28)	3	11-Jan-16 A	20-Jan-16 A
PCB-16-1820	DoA - EAST - Backfilling to Pile Caps Stage 3 (to +5.5mPD) (DC41,42 & 43)	3	01-Feb-16	03-Feb-16
PCB-16-1830	DoA - EAST - Backfilling to Pile Caps Stage 4 (to +5.5mPD) (DC10,25,40)	3	01-Feb-16	03-Feb-16
PCB-16-1850	DoA - EAST - Backfilling to Pile Caps Stage 5 (to +5.5mPD) (DC9,24,39)	3	03-Feb-16	05-Feb-16
PCB-16-1860	DoA - EAST - Backfilling to Pile Caps Stage 6 (to +5.5mPD) (DC14,29,44)	3	04-Mar-16	08-Mar-16
PCB-16-1865	DoA - EAST - Backfilling to Pile Caps Stage 7 (to +5.5mPD) (DC15,30,45)	3	14-Mar-16	17-Mar-16
Deck 12,11,10,9,8,7 - Early Construction		96	04-Feb-16	04-Jun-16
PCB-16-490	DoA - Complete Decking Works to Bay 11	24	04-Feb-16	09-Mar-16
PCB-16-520	DoA - Complete Decking Works to Bay 12	24	25-Feb-16	23-Mar-16
PCB-16-540	DoA - Complete Decking Works to Bay 9	24	14-Mar-16	11-Apr-16
PCB-16-580	DoA - Complete Decking Works to Bay 10	24	31-Mar-16	28-Apr-16
PCB-16-615	DoA - Complete Decking Works to Bay 7	24	19-Apr-16	18-May-16
PCB-16-620	DoA - Complete Decking Works to Bay 8	24	07-May-16	04-Jun-16
Southern Drop Off Area - West		160	15-Sep-15 A	01-Apr-16
PCB-16-1440	DoA - WEST - Excavation and ELS for DoA West Pile Caps (21 No) and Gridl	36	15-Sep-15 A	18-Nov-15 A
PCB-16-1450	DoA - WEST - Break down piles to cut off level (+2.075mPD) (21 No)	36	22-Sep-15 A	04-Feb-16
Pile Caps		66	25-Nov-15 A	01-Mar-16
PCB-16-1870	DoA - WEST - Construct Pile Caps Stage 9 (to +4.0mPD) (DC21,22,23)	5	26-Nov-15 A	15-Jan-16 A
PCB-16-1460	DoA - WEST - Construct Pile Caps Stage 8 (to +4.0mPD) (DC6,7,8)	6	25-Nov-15 A	02-Feb-16
PCB-16-1910	DoA - WEST - Construct Pile Caps Stage 13 (to +4.0mPD) (DC36,37,38)	8	14-Dec-15 A	02-Feb-16
PCB-16-1930	DoA - WEST - Construct Pile Caps Stage 15 (to +4.0mPD) (DC33,34,35)	8	05-Jan-16 A	02-Feb-16
PCB-16-1880	DoA - WEST - Construct Pile Caps Stage 10 (to +4.0mPD) (DC3,4,5)	4	01-Feb-16	04-Feb-16
PCB-16-1920	DoA - WEST - Construct Pile Caps Stage 14 (to +4.0mPD) (DC18,19,20)	8	04-Jan-16 A	06-Feb-16
PCB-16-1890	DoA - WEST - Construct Pile Caps Stage 11 (to +4.0mPD) (DC2,17,32)	8	05-Feb-16	20-Feb-16
PCB-16-1900	DoA - WEST - Construct Pile Caps Stage 12 (to +4.0mPD) (DC1,16,31)	8	22-Feb-16	01-Mar-16
Column 1st Lift		42	06-Jan-16 A	15-Mar-16
PCB-16-1470	DoA - WEST - Construct Kickers Stage 8 (to +7.294mPD) (DC6,7,8)	3	06-Jan-16 A	01-Feb-16
PCB-16-1475	DoA - WEST - Construct Kickers Stage 9 (to +7.294mPD) (DC21,22,23)	3	09-Jan-16 A	02-Feb-16
PCB-16-1940	DoA - WEST - Construct Kickers Stage 10 (to +7.294mPD) (DC3,4,5)	3	05-Feb-16	15-Feb-16
PCB-16-1950	DoA - WEST - Construct Kickers Stage 11 (to +7.294mPD) (DC2,17,32)	3	22-Feb-16	24-Feb-16
PCB-16-2090	DoA - WEST - Construct Kickers Stage 12 (to +7.294mPD) (DC1,16,31)	3	02-Mar-16	04-Mar-16
PCB-16-2100	DoA - WEST - Construct Kickers Stage 13 (to +7.294mPD) (DC36,37,38)	3	05-Mar-16	08-Mar-16
PCB-16-2110	DoA - WEST - Construct Kickers Stage 14 (to +7.294mPD) (DC18,19,20)	3	09-Mar-16	11-Mar-16
PCB-16-2120	DoA - WEST - Construct Kickers Stage 15 (to +7.294mPD) (DC33,34,35)	3	12-Mar-16	15-Mar-16
Columns, Piers and Bearings		43	26-Jan-16 A	29-Mar-16
PCB-16-1490	DoA - Construct Columns Stage 8 (to +11mPD) (DC6,7,8)	12	26-Jan-16 A	18-Feb-16
PCB-16-1495	DoA - Construct Columns Stage 9 (to +11mPD) (DC21,22,23)	12	03-Feb-16	23-Feb-16
PCB-16-1610	DoA - Construct Columns Stage 10 (to +11mPD) (DC3,4,5)	12	16-Feb-16	29-Feb-16
PCB-16-1615	DoA - Construct Columns Stage 11 (to +11mPD) (DC21,22,23)	12	25-Feb-16	09-Mar-16
PCB-16-1625	DoA - Construct Columns Stage 12 (to +11mPD) (DC3,4,5)	12	05-Mar-16	18-Mar-16
PCB-16-2140	DoA - Construct Columns Stage 13 (to +11mPD) (DC36,37,38)	12	09-Mar-16	22-Mar-16
PCB-16-2150	DoA - Construct Columns Stage 14 (to +11mPD) (DC18,19,20)	12	12-Mar-16	25-Mar-16
PCB-16-2160	DoA - Construct Columns Stage 15 (to +11mPD) (DC33,34,35)	12	16-Mar-16	29-Mar-16
Backfilling		37	19-Feb-16	01-Apr-16
PCB-16-1465	DoA - WEST - Backfilling to Pile Caps Stage 8 (to +4.0mPD) (DC6,7,8)	3	19-Feb-16	22-Feb-16
PCB-16-1476	DoA - WEST - Backfilling to Pile Caps Stage 9 (to +4.0mPD) (DC21,22,23)	3	24-Feb-16	26-Feb-16
PCB-16-1480	DoA - WEST - Backfilling to Pile Caps Stage 10 (to +4.0mPD) (DC36,37,38)	3	01-Mar-16	03-Mar-16
PCB-16-1985	DoA - WEST - Backfilling to Pile Caps Stage 11 (to +4.0mPD) (DC2,17,32)	3	10-Mar-16	12-Mar-16
PCB-16-1990	DoA - WEST - Backfilling to Pile Caps Stage 12 (to +4.0mPD) (DC1,16,31)	3	19-Mar-16	22-Mar-16
PCB-16-2000	DoA - WEST - Backfilling to Pile Caps Stage 13 (to +4.0mPD) (DC36,37,38)	3	23-Mar-16	25-Mar-16
PCB-16-2040	DoA - WEST - Backfilling to Pile Caps Stage 14 (to +4.0mPD) (DC18,19,20)	3	26-Mar-16	29-Mar-16
PCB-16-2050	DoA - WEST - Backfilling to Pile Caps Stage 15 (to +4.0mPD) (DC33,34,35)	3	30-Mar-16	01-Apr-16
Southern Drop off Area - Decking		60	26-May-16	05-Aug-16
Deck 6,5,4,3		60	26-May-16	05-Aug-16
PCB-16-570	DoA - Complete Decking Works to Bay 5	24	26-May-16	23-Jun-16
PCB-16-590	DoA - Complete Decking Works to Bay 6	24	10-Jun-16	08-Jul-16
PCB-16-500	DoA - Complete Decking Works to Bay 3	24	24-Jun-16	22-Jul-16
PCB-16-530	DoA - Complete Decking Works to Bay 4	24	09-Jul-16	05-Aug-16
Box Culvert A		173	27-Jul-15 A	12-Mar-16
Bored Piling		87	30-Nov-15 A	15-Feb-16
Portion A2 West Box Culvert A (8 Piles)		87	30-Nov-15 A	15-Feb-16
PCB-09-1950	BCA (A2W) - Cut Platform to +8mPD	4	30-Nov-15 A	03-Dec-15 A



Actual Work
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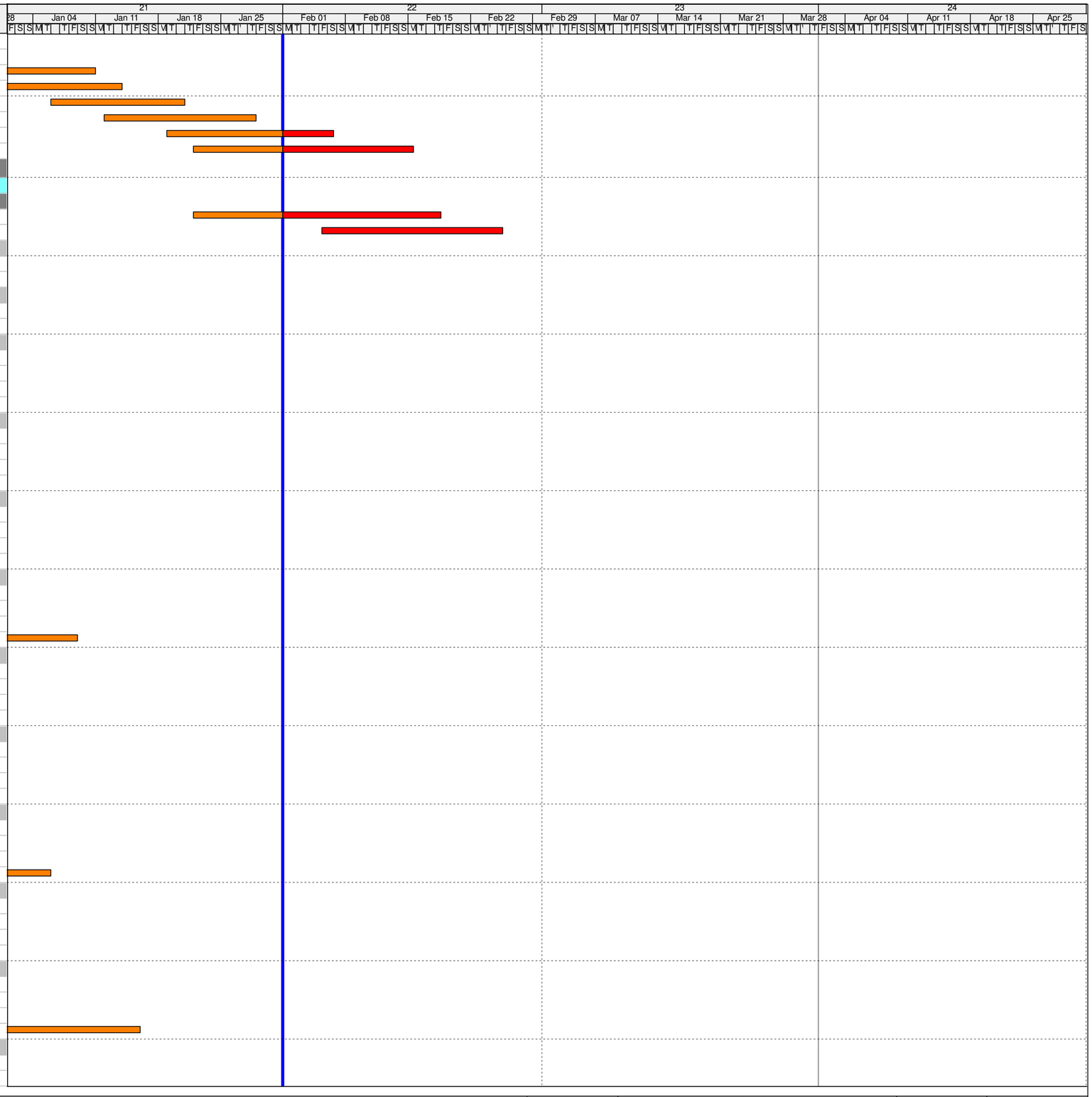
3 MONTHS ROLLING PROGRAMME

Date	Revision	Checked	Approved

Activity ID	Activity Name	Original Duration	Start	Finish
PCB-02-31300	BCA (A2W) - Bored Pile BP44	21	01-Dec-15 A	21-Dec-15 A
PCB-02-32850	BCA (A2W) - Bored Pile BP48	21	04-Dec-15 A	24-Dec-15 A
PCB-02-32860	BCA (A2W) - Bored Pile BP50	21	15-Dec-15 A	11-Jan-16 A
PCB-02-31970	BCA (A2W) - Bored Pile BP46	21	28-Dec-15 A	14-Jan-16 A
PCB-02-31980	BCA (A2W) - Bored Pile BP43	21	06-Jan-16 A	21-Jan-16 A
PCB-02-32880	BCA (A2W) - Bored Pile BP49	21	12-Jan-16 A	29-Jan-16 A
PCB-02-32870	BCA (A2W) - Bored Pile BP47	21	19-Jan-16 A	06-Feb-16
PCB-02-31960	BCA (A2W) - Bored Pile BP45	21	22-Jan-16 A	15-Feb-16
RC Structures		155	27-Jul-15 A	12-Mar-16
Portion A1 & A2 East		155	27-Jul-15 A	12-Mar-16
East		141	27-Jul-15 A	25-Feb-16
PCB-09-1970	BCA (A1) Backfilling to Ground Level (Bays 1 to 10)	12	22-Jan-16 A	18-Feb-16
PCB-09-1960	BCA (A1) Remove Sheetpile and make good (Bays 1 to 10)	12	05-Feb-16	25-Feb-16
Stage 1		47	27-Jul-15 A	26-Sep-15 A
PCB-09-1090	BCA (A2E & A1) Sheetpiling (214m) (Bays 1A to 7)	22	27-Jul-15 A	18-Sep-15 A
PCB-09-1100	BCA (A2E & A1) Excavation and Strutting (77m) (Bays 1A to 5)	33	31-Aug-15 A	26-Sep-15 A
Stage 2		52	07-Sep-15 A	26-Sep-15 A
PCB-09-1830	BCA (A1) Sheetpiling (120m) (Bays 10 to 7)	12	07-Sep-15 A	19-Sep-15 A
PCB-09-1840	BCA (A1) Excavation and Strutting (75m) (Bays 10 to 6)	33	09-Sep-15 A	26-Sep-15 A
Bay 1		42	16-Sep-15 A	28-Nov-15 A
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	16-Sep-15 A	09-Oct-15 A
PCB-XX-860	Complete Bay 1 Baseslab	8	12-Oct-15 A	28-Oct-15 A
PCB-XX-870	Complete wall and Top Slab Bay 1	15	30-Oct-15 A	28-Nov-15 A
Bay 2		80	26-Sep-15 A	13-Dec-15 A
PCB-XX-800	Complete Blinding to Bay 2	1	26-Sep-15 A	26-Sep-15 A
PCB-XX-810	Complete Pile Caps to Bay 2	3	12-Oct-15 A	14-Oct-15 A
PCB-XX-820	Complete Bay 2 Baseslab	9	02-Nov-15 A	16-Nov-15 A
PCB-XX-830	Complete wall and Top Slab Bay 2	15	03-Dec-15 A	13-Dec-15 A
Bay 3		52	29-Sep-15 A	02-Dec-15 A
PCB-XX-790	Complete Blinding to Bay 3	1	29-Sep-15 A	29-Sep-15 A
PCB-XX-750	Complete Pile Caps to Bay 3	4	14-Oct-15 A	17-Oct-15 A
PCB-XX-760	Complete Bay 3 Baseslab	8	22-Oct-15 A	03-Nov-15 A
PCB-XX-770	Complete wall and Top Slab Bay 3	15	07-Nov-15 A	02-Dec-15 A
Bay 4		66	15-Oct-15 A	09-Jan-16 A
PCB-XX-780	Complete Blinding to Bay 4	2	15-Oct-15 A	19-Oct-15 A
PCB-XX-720	Complete Pile Caps to Bay 4	4	21-Oct-15 A	26-Oct-15 A
PCB-XX-730	Complete Bay 4 Baseslab	7	09-Nov-15 A	18-Nov-15 A
PCB-XX-740	Complete wall and Top Slab Bay 4	15	03-Dec-15 A	09-Jan-16 A
Bay 5		58	19-Oct-15 A	28-Dec-15 A
PCB-XX-0610	Complete Blinding to Bay 5	1	19-Oct-15 A	22-Oct-15 A
PCB-XX-0620	Complete Pile Caps to Bay 5	3	27-Oct-15 A	03-Nov-15 A
PCB-XX-0630	Complete Bay 5 Baseslab	7	19-Nov-15 A	05-Dec-15 A
PCB-XX-0640	Complete wall and Top Slab Bay 5	15	11-Dec-15 A	28-Dec-15 A
Bay 6		46	21-Oct-15 A	11-Dec-15 A
PCB-XX-1040	Complete Blinding to Bay 6	3	21-Oct-15 A	24-Oct-15 A
PCB-XX-1050	Complete Pile Caps to Bay 6	4	02-Nov-15 A	06-Nov-15 A
PCB-XX-1060	Complete Bay 6 Baseslab	7	16-Nov-15 A	23-Nov-15 A
PCB-XX-1070	Complete wall and Top Slab Bay 6	15	24-Nov-15 A	11-Dec-15 A
Bay 7		57	28-Oct-15 A	06-Jan-16 A
PCB-XX-1000	Complete Blinding to Bay 7	7	28-Oct-15 A	31-Oct-15 A
PCB-XX-1010	Complete Pile Caps to Bay 7	4	31-Oct-15 A	02-Nov-15 A
PCB-XX-1020	Complete Bay 7 Baseslab	9	04-Dec-15 A	15-Dec-15 A
PCB-XX-1030	Complete wall and Top Slab Bay 7	15	17-Dec-15 A	06-Jan-16 A
Bay 8		39	02-Nov-15 A	18-Dec-15 A
PCB-XX-960	Complete Blinding to Bay 8	4	02-Nov-15 A	03-Nov-15 A
PCB-XX-970	Complete Pile Caps to Bay 8	3	09-Nov-15 A	11-Nov-15 A
PCB-XX-980	Complete Bay 8 Baseslab	7	20-Nov-15 A	02-Dec-15 A
PCB-XX-990	Complete wall and Top Slab Bay 8	15	10-Dec-15 A	18-Dec-15 A
Bay 9		58	03-Nov-15 A	16-Jan-16 A
PCB-XX-920	Complete Blinding to Bay 9	4	03-Nov-15 A	05-Nov-15 A
PCB-XX-930	Complete Pile Caps to Bay 9	5	10-Nov-15 A	13-Nov-15 A
PCB-XX-940	Complete Bay 9 Baseslab	8	11-Dec-15 A	23-Dec-15 A
PCB-XX-950	Complete wall and Top Slab Bay 9	15	28-Dec-15 A	16-Jan-16 A
Bay 10		41	09-Nov-15 A	23-Dec-15 A
PCB-XX-880	Complete Blinding to Bay 10	2	09-Nov-15 A	11-Nov-15 A
PCB-XX-890	Complete Pile Caps to Bay 10	3	13-Nov-15 A	20-Nov-15 A



Actual Work
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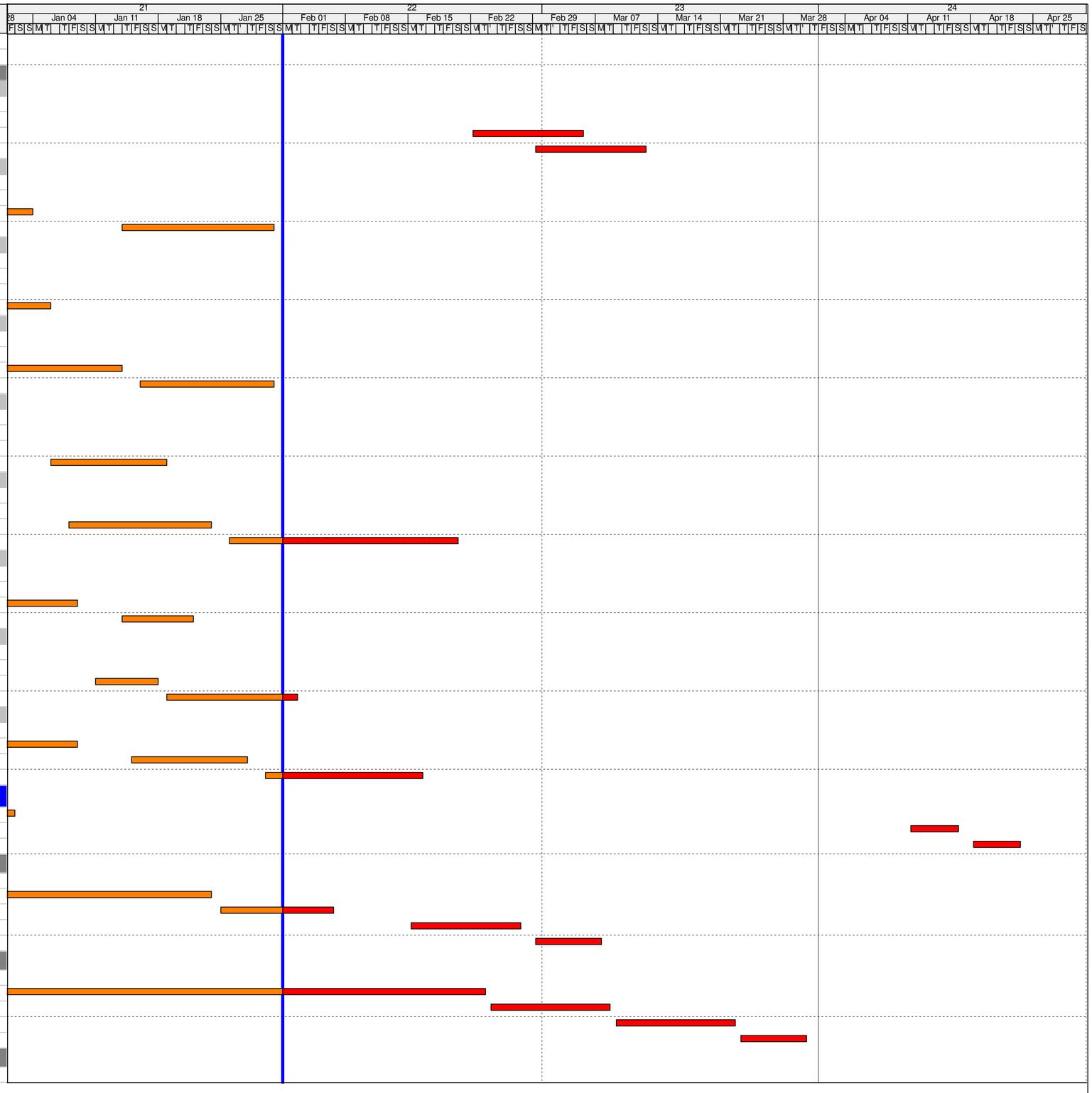
3 MONTHS ROLLING PROGRAMME

Date	Revision	Checked	Approved

Activity ID	Activity Name	Original Duration	Start	Finish
PCB-XX-900	Complete Bay 10 Baseslab	7	26-Nov-15 A	11-Dec-15 A
PCB-XX-910	Complete wall and Top Slab Bay 10	15	12-Dec-15 A	23-Dec-15 A
West		139	07-Sep-15 A	12-Mar-16
Stage 3		139	07-Sep-15 A	12-Mar-16
PCB-09-1600	BCA (A1) Sheetpiling (300m) (Bays 11 to 20)	30	07-Sep-15 A	23-Sep-15 A
PCB-09-1620	BCA (A1) Excavation (150m) (Bays 11 to 18)	30	19-Sep-15 A	14-Dec-15 A
PCB-09-1170	BCA (A1) Backfilling to Ground Level (150m) (Bays 11 to 18)	12	22-Feb-16	05-Mar-16
PCB-09-1180	BCA (A1) Remove Sheetpile and make good (300m) (Bays 11 to 18)	12	29-Feb-16	12-Mar-16
Bay 11		66	12-Nov-15 A	31-Jan-16 A
PCB-XX-1080	Complete Blinding to Bay 11	3	12-Nov-15 A	14-Nov-15 A
PCB-XX-1090	Complete Pile Caps to Bay 11	4	20-Nov-15 A	24-Nov-15 A
PCB-XX-1100	Complete Bay 11 Baseslab	12	21-Dec-15 A	04-Jan-16 A
PCB-XX-1110	Complete wall and Top Slab Bay 11	15	14-Jan-16 A	31-Jan-16 A
Bay 12		49	16-Nov-15 A	06-Jan-16 A
PCB-XX-1120	Complete Blinding to Bay 12	1	16-Nov-15 A	20-Nov-15 A
PCB-XX-1130	Complete Pile Caps to Bay 12	3	23-Nov-15 A	27-Nov-15 A
PCB-XX-1140	Complete Bay 12 Baseslab	12	09-Dec-15 A	21-Dec-15 A
PCB-XX-1150	Complete wall and Top Slab Bay 12	15	28-Dec-15 A	06-Jan-16 A
Bay 13		60	18-Nov-15 A	31-Jan-16 A
PCB-XX-1160	Complete Blinding to Bay 13	1	18-Nov-15 A	21-Nov-15 A
PCB-XX-1170	Complete Pile Caps to Bay 13	3	27-Nov-15 A	03-Dec-15 A
PCB-XX-1180	Complete Bay 13 Baseslab	10	09-Dec-15 A	14-Jan-16 A
PCB-XX-1190	Complete wall and Top Slab Bay 13	15	16-Jan-16 A	31-Jan-16 A
Bay 14		54	23-Nov-15 A	19-Jan-16 A
PCB-XX-1200	Complete Blinding to Bay 14	1	23-Nov-15 A	24-Nov-15 A
PCB-XX-1210	Complete Pile Caps to Bay 14	3	30-Nov-15 A	03-Dec-15 A
PCB-XX-1220	Complete Bay 14 Baseslab	10	11-Dec-15 A	30-Dec-15 A
PCB-XX-1230	Complete wall and Top Slab Bay 14	15	06-Jan-16 A	19-Jan-16 A
Bay 15		71	25-Nov-15 A	20-Feb-16
PCB-XX-1240	Complete Blinding to Bay 15	1	25-Nov-15 A	26-Nov-15 A
PCB-XX-1250	Complete Pile Caps to Bay 15	3	03-Dec-15 A	10-Dec-15 A
PCB-XX-1260	Complete Bay 15 Baseslab	10	08-Jan-16 A	24-Jan-16 A
PCB-XX-1270	Complete wall and Top Slab Bay 15	20	26-Jan-16 A	20-Feb-16*
Bay 16		43	05-Dec-15 A	22-Jan-16 A
PCB-XX-1280	Complete Blinding to Bay 16	1	05-Dec-15 A	11-Dec-15 A
PCB-XX-1290	Complete Pile Caps to Bay 16	3	14-Dec-15 A	16-Dec-15 A
PCB-XX-1300	Complete Bay 16 Baseslab	8	28-Dec-15 A	09-Jan-16 A
PCB-XX-1310	Complete wall and Top Slab Bay 16	17	14-Jan-16 A	22-Jan-16 A
Bay 17		44	09-Dec-15 A	02-Feb-16
PCB-XX-1320	Complete Blinding to Bay 17	1	09-Dec-15 A	15-Dec-15 A
PCB-XX-1330	Complete Pile Caps to Bay 17	4	16-Dec-15 A	24-Dec-15 A
PCB-XX-1340	Complete Bay 17 Baseslab	8	11-Jan-16 A	18-Jan-16 A
PCB-XX-1350	Complete wall and Top Slab Bay 17	15	19-Jan-16 A	02-Feb-16*
Bay 18		42	23-Dec-15 A	16-Feb-16
PCB-XX-1360	Complete Blinding to Bay 18	1	23-Dec-15 A	28-Dec-15 A
PCB-XX-1370	Complete Pile Caps to Bay 18	3	28-Dec-15 A	09-Jan-16 A
PCB-XX-1380	Complete Bay 18 Baseslab	10	15-Jan-16 A	28-Jan-16 A
PCB-XX-1390	Complete wall and Top Slab Bay 18	15	30-Jan-16 A	16-Feb-16*
Common Utilities Enclosure		207	19-Oct-15 A	08-Jul-16
PCB-9A-130	CUE - Excavation and ELS for Common Utilities Enclosure Bay 1-3	10	19-Oct-15 A	02-Jan-16 A
PCB-9A-170	CUE - Backfilling and Compaction to Bay 1-3	6	11-Apr-16*	16-Apr-16
PCB-9A-500	CUE - Re-Align Haul Road over Bay 1-3	6	18-Apr-16*	23-Apr-16
Bay 3		76	24-Nov-15 A	07-Mar-16
PCB-9A-190	CUE - Blinding Bay 3	2	24-Nov-15 A	30-Dec-15 A
PCB-9A-280	CUE - Construct Base Slab of Bay 3	14	16-Dec-15 A	24-Jan-16 A
PCB-9A-290	CUE - Construct external/internal walls to Bay 3	12	25-Jan-16 A	06-Feb-16
PCB-9A-300	CUE - Construct Top slab of Bay 3	12	15-Feb-16	27-Feb-16
PCB-9A-310	CUE - Curing and Waterproofing to Bay 3	7	29-Feb-16	07-Mar-16
Bay 2		84	07-Dec-15 A	30-Mar-16
PCB-9A-490	CUE - Blinding Bay 2	2	07-Dec-15 A	30-Dec-15 A
PCB-9A-240	CUE - Construct Base Slab of Bay 2	39	18-Dec-15 A	23-Feb-16
PCB-9A-250	CUE - Construct external/internal walls to Bay 2	12	24-Feb-16	08-Mar-16
PCB-9A-260	CUE - Construct Top slab of Bay 2	12	09-Mar-16	22-Mar-16
PCB-9A-270	CUE - Apply Waterproofing to Bay 2	7	23-Mar-16	30-Mar-16
Bay 1		89	07-Dec-15 A	13-Apr-16
PCB-9A-200	CUE - Blinding Bay 1	2	07-Dec-15 A	11-Dec-15 A

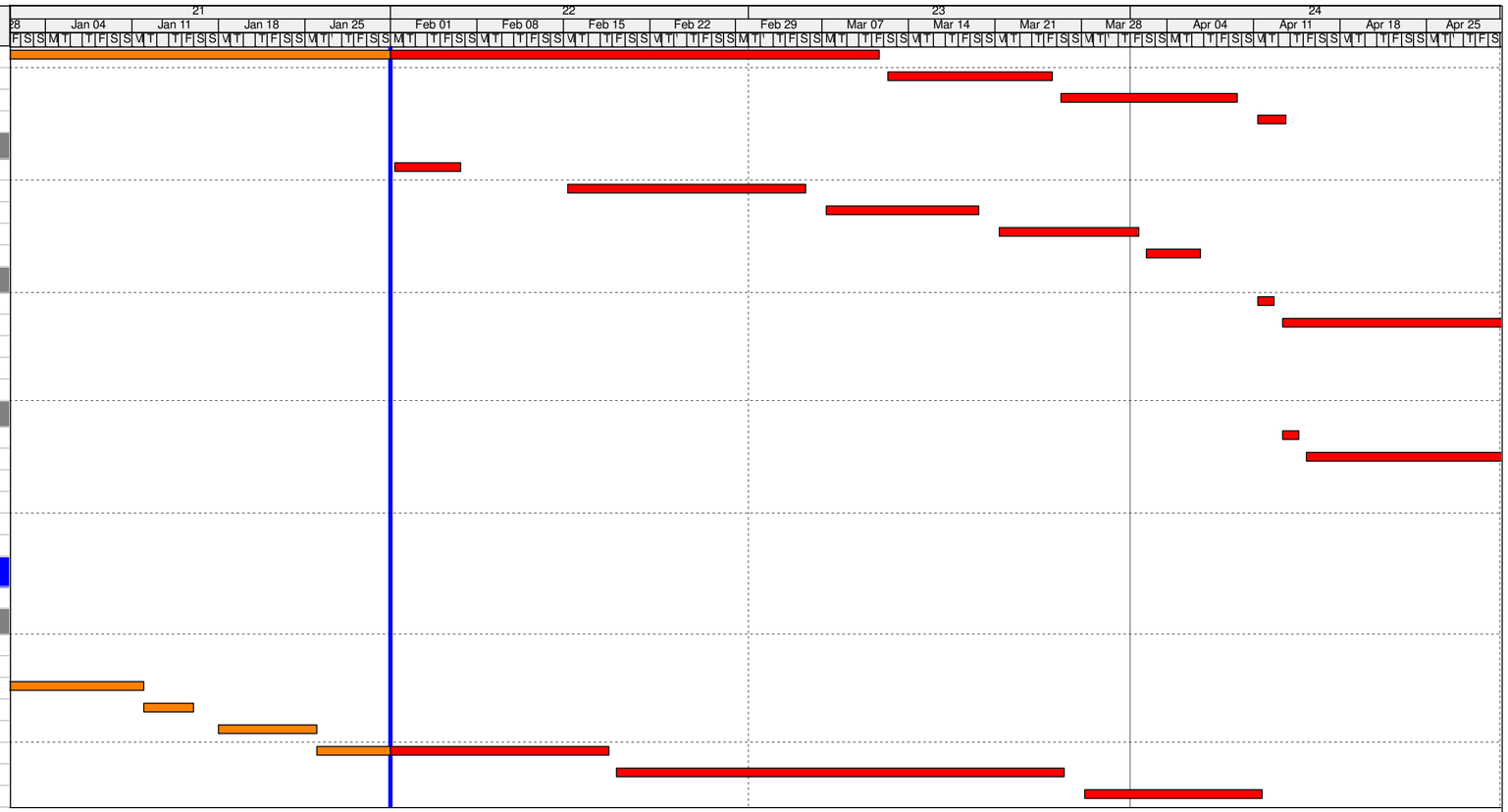


Actual Work
Remaining Work
Critical Remaining Work
Milestone

3 MONTHS ROLLING PROGRAMME

Date	Revision	Checked	Approved

Activity ID	Activity Name	Original Duration	Start	Finish
PCB-9A-320	CUE - Construct Base Slab of Bay 1	22	18-Dec-15 A	11-Mar-16
PCB-9A-330	CUE - Construct external/internal walls to Bay 1	12	12-Mar-16	25-Mar-16
PCB-9A-340	CUE - Construct Top slab of Bay 1	12	26-Mar-16	09-Apr-16
PCB-9A-350	CUE - Apply Waterproofing to Bay 1	3	11-Apr-16	13-Apr-16
Bay 4		50	01-Feb-16	06-Apr-16
PCB-9A-210	CUE - Blinding Bay 4	6	01-Feb-16	06-Feb-16
PCB-9A-360	CUE - Construct Base Slab of Bay 4	18	15-Feb-16	05-Mar-16
PCB-9A-370	CUE - Construct external/internal walls to Bay 4	12	07-Mar-16	19-Mar-16
PCB-9A-380	CUE - Construct Top slab of Bay 4	11	21-Mar-16	01-Apr-16
PCB-9A-390	CUE - Apply Waterproofing to Bay 4	3	02-Apr-16	06-Apr-16
Bay 5		46	11-Apr-16	04-Jun-16
PCB-9A-220	CUE - Blinding Bay 5	2	11-Apr-16*	12-Apr-16
PCB-9A-400	CUE - Construct Base Slab of Bay 5	18	13-Apr-16	04-May-16
PCB-9A-410	CUE - Construct external/internal walls to Bay 5	12	05-May-16	19-May-16
PCB-9A-420	CUE - Construct Top slab of Bay 5	11	20-May-16	01-Jun-16
PCB-9A-430	CUE - Apply Waterproofing to Bay 5	3	02-Jun-16	04-Jun-16
Bay 6		71	13-Apr-16	08-Jul-16
PCB-9A-230	CUE - Blinding Bay 6	2	13-Apr-16	14-Apr-16
PCB-9A-440	CUE - Construct Base Slab of Bay 6	18	15-Apr-16	06-May-16
PCB-9A-450	CUE - Construct external/internal walls to Bay 6	12	02-Jun-16	16-Jun-16
PCB-9A-460	CUE - Construct Top slab of Bay 6	11	17-Jun-16	29-Jun-16
PCB-9A-470	CUE - Apply Waterproofing to Bay 6	3	30-Jun-16	04-Jul-16
PCB-9A-480	CUE - Apply Waterproofing to Bay 5	7	30-Jun-16	08-Jul-16
Seawater Pump House		146	06-Oct-15 A	11-Apr-16
PCB-13A-0500	Assumed Commencement of Seawater Pumpstation	0	04-Dec-15 A	
Piling		146	06-Oct-15 A	11-Apr-16
PCB-13A-740	SWP - Additional Predrilling works	24	06-Oct-15 A	13-Nov-15 A
PCB-13A-110	SWP - Prebored socket H-piles (1 to 10) x 2 rigs	20	04-Dec-15 A	21-Dec-15 A
PCB-13A-500	SWP - Prebored socket H-piles (11 to 20) x 2 rigs	20	15-Dec-15 A	12-Jan-16 A
PCB-13A-510	SWP - Prebored socket H-piles (21 to 30) x 2 rigs	20	12-Jan-16 A	16-Jan-16 A
PCB-13A-520	SWP - Prebored socket H-piles (31 to 40) x 2 rigs	20	18-Jan-16 A	26-Jan-16 A
PCB-13A-720	SWP - Prebored socket H-piles (41 to 50) x 2 rigs	20	26-Jan-16 A	18-Feb-16
PCB-13A-730	SWP - Prebored socket H-piles (51 to 66) x 2 rigs	32	19-Feb-16	26-Mar-16
PCB-13A-120	SWP - Socketed H-Piles Load Testing	12	28-Mar-16	11-Apr-16



Actual Work
Remaining Work
Critical Remaining Work
Milestone

3 MONTHS ROLLING PROGRAMME

Date	Revision	Checked	Approved

APPENDIX D

Event and Action Plan

Event/Action Plan for Air Quality

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
2. Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurement s to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
LIMIT LEVEL				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
2. Exceedance for two or more consecutive samples	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Event / Action Plan for Construction Noise Monitoring

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level	1. Notify IEC and Contractor; 2. Identify source, investigate the causes of exceedance and propose remedial measures; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5 Increase monitoring frequency to check mitigation effectiveness.	1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented.	1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.
Limit Level	1. Inform IEC, ER, EPD and Contractor; 2. Identify source; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

APPENDIX E

Waste Flow Table

Name of Department: Highways Department

Contract No.: HY/2013/01

Leighton - Chun Wo Joint Venture

Monthly Summary Waste Flow Table for 2016

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	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	3.209	0.233	0.000	2.079	1.130	0.000	145.240	0.935	0.000	1.200	0.123
February											
March											
April											
May											
June											
Sub-total	3.209	0.233	0.000	2.079	1.130	0.000	145.240	0.935	0.000	1.200	0.123
July											
August											
September											
October											
November											
December											
Total	3.209	0.233	0.000	2.079	1.130	0.000	145.240	0.935	0.000	1.200	0.123

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

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 50,000m^3.
(5) All recyclable materials, including metals, paper / cardboard packaging, plastics, etc. will be collected by registered collector for recycling.
(6) Conversion factors for reporting purpose:
in-situ: rock = 2.5 tonnes/m^3; soil = 2.0 tonnes/m^3
excavated: rock = 2.0 tonnes/m^3; soil = 1.8 tonnes/m^3; broken concrete and bitumen = 2.4 tonnes/m^3
C&D Waste = 0.9 tonnes/m^3; bentonite slurry = 2.8 tonnes/m^3
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.
(11) The item d “Reused in Other Project” includes the quantities of treated excavated sediment, sand, etc. Other project refers to Contract No. HY/2010/02.

Monthly Summary of Marine Sediment for 2016

Month	a. Estimated Volume of Marine Sediment Generated (m^3)	b. Estimated Volume of Accumulated Treated Marine Sediment (m^3)	c. Reused in the Contract (m^3)	d. Estimated Volume of Reused Marine Sediment in Other Project (m^3) (2)	e. Estimated Volume of Treated Marine Sediment Stored on Site (Unused) (m^3)
Jan 2016	511	400	0	0	400
Total	**511**	**400**	**0**	**0**	**2155** (1)

Notes:

(1) This presents the total quantity of unused treated marine sediment stored on site during the reporting month, of which 1,755 m^3 has been brought forward from previous year.

(2) Other project refers to Contract No. HY/2010/02.

APPENDIX F

Environmental Licenses and Permits

LEIGHTON 俊和 CHUN WO
Leighton - Chun Wo Joint Venture

Environmental License/ Permits /Notification Register

LCAL H2620

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

Date : January 2016

Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Work Area	Date	Reference						
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	
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	

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

Date : January 2016

Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Work Area	Date	Reference						
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	PCB	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	
9	PCB	23 Jun 14	In H2620-LTR-EPD-000017	**CNP** 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

Environmental License/ Permits /Notification Register

LCAL H2620

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

Date : January 2016

Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Work Area	Date	Reference						
10	WA2	02 Jul 14	H2620-LTR-LCJ-AU-000280	**CNP** 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	**CNP** 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
12	PCB	23 Jun 14	H2620-LTR- EPD-000527	**CNP** 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	PCB	29 Sep 14	H2620-LTR-EPD-AU-000034	**CNP** 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

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

Date : January 2016

Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Work Area	Date	Reference						
14	WA2	12 Sep 14	H2620-LTR-EPD-AU-000032	**CNP** 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	**CNP** 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	Expired and replaced by GW-RW0171-15
16	PCB	03 Nov 14	H2620-LTR-EPD-AU-000040	**CNP** 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	**CNP** 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

Date : January 2016

Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Work Area	Date	Reference						
18	PCB	12 Mar 15	H2620-LTR-EPD-AU-000051	**CNP** 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	PCB	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	
20	WA4	27 Mar 15	H2620-LTR-EPD-AU-000054	**CNP** 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	PCB	15 Apr 15	H2620-LTR-EPD-AU-000057	**CNP** 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	01 May 15	31 Jul 15	EPD	Superseded by GW-RS0685-15

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

Date : January 2016

Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Work Area	Date	Reference						
22	PCB	09 Jun 15	H2620-LTR-EPD-AU-000063	**CNP** 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-RS0685-15	01 Jul 15	30 Sep 15	EPD	Superseded by GW-RS0877-15
23	WA4	29 Jun 15	H2620-LTR-EPD-AU-000066	**CNP** 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	Expired. Replaced by GW-RW0003-16
24	PCB	27 Jul 15	H2620-LTR-EPD-AU-000069	**CNP** 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-RS0877-15	10 Aug 15	09 Nov 15	EPD	Superseded by GW-RS1016-15
25	PCB	02 Sep 15	H2620-LTR-EPD-AU-000072	**CNP** 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-RS1016-15	18 Sep 15	17 Dec 15	EPD	Superseded by GW-RS1195-15

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

Date : January 2016

Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Work Area	Date	Reference						
26	PCB	22 Oct 15	H2620-LTR-EPD-AU-000075	**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-RS1195-15	9 Nov 15	8 Feb 16	EPD	Superseded by GW-RS1444-15
27	PCB	17 Dec 15	H2620-LTR-EPD-AU-000076	**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-RS1444-15	31 Dec15	30 Mar 16	EPD	
28	WA4	24 Dec 15	H2620-LTR-EPD-AU-000080	**CNP** for the use of powered mechanical equipment from 19:00 to 23:00. (Non-designated area)	GW-RW0003-16	13 Jan 16	06 Jul 16	EPD	

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	1) 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)	√
S5.5.6.2	A2	2) 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 takes 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)	√

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	• When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; • The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials; • Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; • Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; • Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; • Any skip hoist for material transport should be totally enclosed by impervious sheeting; • Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top 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)	√
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	√
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	√
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
Construction Noise (Air borne)								
S6.4.10	N1	1) 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	2) Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	Reduce the construction noise levels at low-level zone of NSRs through partial screening.	Contractor	All construction sites	Construction stage	• Noise Control Ordinance • Annex 5, TM-EIA	N/A
S6.4.12	N3	3) Install movable noise barriers (typically density @14kg/m^2), acoustic mat or full enclosure close to noisy plants including air compressor, generators, saw.	Screen the noisy plant items to be used at all construction sites	Contractor	For plant items listed in Appendix 6D of the EIA report at all construction sites	Construction stage	• 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	4) Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.	Reduce the noise levels of plant items	Contractor	For plant items listed in Appendix 6D of the EIA report at all construction sites	Construction stage	• Noise Control Ordinance & its TM • Annex 5, TM-EIA	√
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	√
/	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								
S7.3	S1	1) The requirements as recommended in ETWB TC 34/2002 Management of Dredged/Excavated Sediment shall be included in the Particular Specification as appropriate.	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 Management (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
S8.3.9-S8.3.11	WM2	*C&D Waste* • Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage. • The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage.	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	√
S8.2.12-S8.3.15	WM3	*Chemical Waste* • 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 incompatible materials are adequately separated.	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	√

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.						√
S8.3.16	WM4	*Sewage* • 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	√
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 Quality (Construction Phase)								
S.9.11.1.7	W2	<u>Land Works</u> General construction activities on land should also be governed by standard good working practice. Specific measures to be written into the works contracts should include: • 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; • 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;	To control construction water quality	Contractor	Land-based works areas	Construction stage	TM-EIAO	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
S9.11.1.7	W2	• all vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit; • wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain; • the section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel; • wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects; • vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal; • the contractors shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately; • waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance; • all fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank; and • surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.	To control construction water quality	Contractor	Land-based works areas	Construction stage	TM-EIAO	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Ecology (Construction 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	√
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		√
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; Fine-tuning 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 & Visual (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	<u>Mitigate Visual Impacts</u> 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	√
S15.5 - S15.6	EM2	1) An Environmental Team needs to be employed as per the EM&A Manual. 2) Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures. 3) 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	√

Legends: √ = 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		
	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

Feb-16

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