QUARTERLY EM&A REPORT

The Jockey Club CPS Limited

Central Police Station Conservation and Revitalisation Project: Seventh Quarterly EM&A Report (1 May 2013 to 31 July 2013)

Issue Date: August 2013

Environmental Resources Management

16/F DCH Commercial Centre 25 Westlands Road Quarry Bay, Hong Kong Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660 E-mail: post.hk@erm.com http://www.erm.com The Jockey Club CPS Limited

Central Police Station Conservation and Revitalisation Project: Seventh Quarterly EM&A Report (1 May 2013 to 31 July 2013)

Issue Date: August 2013 Reference 0095646

For and on behalf of			
ERM-Hong K	ong, Limited		
Approved by:	Frank Wan		
	Warch-A.		
Signed:	7		
Position:	Partner		
Certified by:_	MAS		
	ronmental Team Leader – Winnie Ko)		
Date:	20 August 2013		

This report has been prepared by ERM-Hong Kong, Limited with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.



阿特金斯 ATKINS 香港九龍尖沙咀海港城 九倉電訊中心十三樓 13/F Wharf T&T Centre Harbour City Tsim Sha Tsui Kowloon Hong Kong

www.atkinsglobal.com

Your ref.	0095646_let_Atkins_20130826 Seventh Quarterly EM&A Report.docle	(852) 2972 1000 (852) 2890 6343
Our ref.	4690/OC050/SO info.hk@at	tkinsglobal.com

Date: 28 August 2013

By Email and Post

ERM-Hong Kong Limited, 16/F DCH Commercial Centre, 25 Westlands Road, Quarry Bay, Hong Kong

Attn: Ms Winnie Ko

Dear Winnie,

Central Police Station Conservation and Revitalization Project Verification of Seventh Quarterly EM&A Report

We refer to your letter dated 26 August 2013 regarding the seventh Quarterly EM&A Report. Atkins China Ltd. verifies, in the capacity of Independent Environmental Checker, that the report, in principle, conforms the requirements provided in Section 10.4 of the EM&A Manual.

Yours sincerely, For Atkins China Ltd.

Gronfal

Sharifah Or Independent Environmental Checker

c.c. HKJC – Mr. Kenneth Lee, Rocco Design Architect – Mr. Charles Kung, By Email By Email

	EXECUTIVE SUMMARY	Ι
1	INTRODUCTION	1
1.1	Purpose of the Report	1
1.2	STRUCTURE OF THE REPORT	1
2	PROJECT INFORMATION	3
2.1	BACKGROUND	3
2.2	SITE DESCRIPTION	3
2.3	CONSTRUCTION ACTIVITIES	3
2.4	CONSTRUCTION PROGRAMME	4
2.5	PROJECT ORGANISATION AND MANAGEMENT STRUCTURE	4
2.6	STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS	4
3	ENVIRONMENTAL MONITORING REQUIREMENTS	7
3.1	Noise Monitoring	7
3.2	Cultural Heritage	8
3.3	LANDSCAPE AND VISUAL MONITORING	10
4	IMPLEMENTATION STATUS ON ENVIRONMENTAL MITIGATION MEASURES	11
5	MONITORING RESULTS	12
5.1	Noise	12
5.2	LANDSCAPE AND VISUAL MONITORING	12
5.3	Cultural Heritage	13
5.4	WASTE MANAGEMENT	17
5.5	EFFECTIVENESS OF MITIGATION MEASURES AND MONITORING	17
6	ENVIRONMENTAL SITE INSPECTION	18
7	ENVIRONMENTAL NON-CONFORMANCE	19
8	REVIEW OF THE EM&A DATA AND EIA PREDICTIONS	20
8.1	NOISE	20
8.2	WASTE MANAGEMENT	20
8.3	SUMMARY OF REVIEW	21
9	CONCLUSIONS	22

LIST OF TABLES

- Table 2.1
 Summary of Construction Activities undertaken in this Reporting Period
- Table 2.2
 Summary of Environmental Licensing, Notification and Permit Status
- Table 3.1Construction Phase Noise Monitoring Locations
- Table 3.2Noise Monitoring Equipment
- Table 3.3Action and Limit Levels for Construction Noise Monitoring
- Table 3.4Alert, Alarm and Action (AAA) Levels for Vibration Monitoring
- Table 3.5Event and Action Plan for vibration monitoring
- Table 4.1Status of Required Submissions
- Table 5.1Findings of Monthly Tree Inspection in the Reporting Period
- Table 5.2Quantities of Waste Generated from the Project
- Table 7.1Summary of Complaints Received
- Table 8.1
 Comparison of Construction Noise Standard and Noise Monitoring Results
- Table 8.2Quantity of Actual Amount of C&D Materials, General Wastes and Chemical
 - Wastes Generated and EIA Estimation

LIST OF ANNEXES

Annex A	Locations of Works Areas and the Surroundings
Annex A1	Project Location
Annex A2	Declared Monuments within the Project Site
Annex A3	Site Layout Plan marked with Works
Annex B	Project Organization Chart and Contact Detail
Annex C	Locations of Noise Monitoring Stations and Noise Sensitive Receivers
Annex D	Monitoring Schedule of the Reporting Period
Annex E	Calibration Reports for Calibrators and Sound Level Meters
Annex F	Event/Action Plans for Noise
Annex G	Summary of Implementation Status
Annex H	Noise Monitoring Results
Annex I	Construction Programme of the Project
Annex J	Waste Flow Table
Annex K	Environmental Complaint, Environmental Summons and Prosecution Log
Annex L	Records of Vibration Monitoring for Trial Piling and Pipe / Bored Piling
	Works
Annex M	Records of Vibration Monitoring for Other Construction Works
Annex N	A Summary of Current Condition of Character Defining Elements

EXECUTIVE SUMMARY

The construction works of **Central Police Station Conservation and Revitalisation Project** commenced on 24 October 2011. This is the seventh quarterly Environmental Monitoring and Audit (EM&A) summary report presenting the EM&A works carried out during the period from 1 May 2013 and 31 July 2013 in accordance with the EM&A Manual.

Environmental Monitoring and Audit Progress

A summary of the monitoring activities undertaken in this reporting period is listed below:

•	Construction Noise Monitoring during normal weekdays at	
	each monitoring station	16 times
٠	Joint Environmental Site Inspection	3 times
٠	Heritage Site Inspection	33 times
٠	Landscape & Visual Monitoring	3 times
•	Tree Inspection	3 times
•	Vibration monitoring for trial piling works	9 times
٠	Vibration monitoring for pipe/bored piling works	370 times
٠	Vibration monitoring for other construction works	200 times

<u>Noise</u>

16 sets of 30-minute construction noise measurements were carried out at each of the monitoring stations (NM2 and NM6) during normal weekdays of the reporting period. No exceedance of the Action or Limit Level of construction noise was recorded during the reporting period.

Cultural Heritage

Trial Piling and Piling works

Vibration monitoring carried out for the trial piling and piling works during the reporting period are listed below:

- 75 vibration monitoring measurements for the construction of the pipe pile walls at Parade Ground;
- 75 vibration monitoring measurements for the foundation pile works at Block 8;
- 75 vibration monitoring measurements for the construction of pipe pile walls at Old Bailey Wing (Block 50);
- 75 vibration monitoring measurements for the shaft grouted pre-bored H-piles at Block 51;

- 70 vibration monitoring measurements for the steel shear H-piles at Block 17; and
- 9 vibration monitoring measurements for the weekly vibration monitoring for the trial piling near Block 17.

Other Construction Works

Vibration monitoring carried out for other construction works during the reporting period are listed below:

- 75 vibration monitoring measurements for the structural addition and alteration works at Block 1;
- 75 vibration monitoring measurements for the structural addition and alteration works at Block 14; and
- 50 vibration monitoring measurements for the structural addition and alteration works at Block 11.

No exceedance of Alert, Alarm and Action Levels of vibration was recorded during the reporting period.

Thirty-three heritage site inspections were conducted and the Contractor has generally implemented the necessary protection measures as recommended.

Landscape & Visual

Landscape and visual monitoring has commenced since October 2011 on a monthly basis. Three monthly tree inspections have been conducted by the arborist during the reporting period. Most recommended actions have been performed by the Contractor as advised in the reporting period.

Waste Management

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. 9,557.15 tonnes of inert C&D materials and 503.67 tonnes of non-inert C&D materials were generated during the reporting period. The non-inert C&D materials and general refuse generated from the Project were disposed of at the SENT Landfill. 39,279 kg of metals and 230 kg of paper/cardboard packaging were produced and sent to recyclers for recycling. No plastics waste was generated during the reporting period. No chemical waste was produced during the reporting period.

Environmental Site Inspection

Three joint environmental site inspections were carried out by the representatives of the Contractor, the IEC and the ET during the reporting period. The Contractor has generally implemented the mitigation measures as recommended.

Environmental Exceedance/Non-conformance/Compliant/Summons and Prosecution

No exceedance of the Action or Limit Level of construction noise was recorded at designated monitoring stations during the reporting period.

No exceedance of the Alert, Alarm and Action Levels of vibration was recorded during the reporting period.

No enquiry was received during the reporting period.

No non-compliance event was recorded during the reporting period.

No complaint was received during the reporting period.

No summons/prosecution was received in this reporting period.

1 INTRODUCTION

ERM-Hong Kong, Limited (ERM) was appointed by the Jockey Club CPS Limited (the CPS Ltd) as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) programme for the **Central Police Station Conservation and Revitalisation Project** (the Project).

1.1 PURPOSE OF THE REPORT

This is the seventh quarterly EM&A summary report, which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 1 May 2013 and 31 July 2013.

1.2 STRUCTURE OF THE REPORT

The structure of the report is as follows:

Section 1 : **Introduction** details the scope and structure of the report.

Section 2: Project Information

summarises background and scope of the Project, site description, project organization and contract details, construction programme, the construction works undertaken and the status of Environmental Permit(s)/License(s) during the reporting period.

Section 3: Environmental Monitoring Requirements

summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, Event/Action Plans, environmental mitigation measures as recommended in the EIA report, and relevant environmental requirements.

- Section 4 : **Implementation Status on Environmental Mitigation Measures** summarises the implementation of environmental protection measures during the reporting period.
- Section 5: **Monitoring Results** summarises the monitoring and waste management results obtained in the reporting period.

Section 6 : **Environmental Site Inspection** summarises the audit findings of the monthly site inspections undertaken within the reporting period.

Section 7: Environmental Non-conformance

summarises any monitoring exceedance, environmental complaints and environmental summons received within the reporting period.

Section 8: **Review of the EM&A Data and EIA Predictions** compares the monitoring data and waste quantity against predictions in the approved Project EIA report.

Section 9: Conclusions

2.1 BACKGROUND

The Chief Executive (CE)'s 2007-2008 Policy Address highlighted revitalisation as the guiding principle of heritage conservation and the Project was among one of the specific proposals put forward by the CE in the same Policy Address. At the meeting of the Executive Council (ExCo) on 15 July 2008, the ExCo advised and the CE ordered that Government should enter into a partnership with the Hong Kong Jockey Club (HKJC) in the form of an agreement (or agreements) to take forward the conservation and revitalisation of the CPS project based on various guiding parameters. The Project is now being undertaken in partnership with the Development Bureau of the HKSAR Government. The HKJC has taken on board the decision at the ExCo meeting and further investigated the design and implementation of the Project. The Project is now implemented by the CPS Limited.

2.2 SITE DESCRIPTION

The location of the Project Site is shown in *Annex A1*. The Site is bounded by Hollywood Road to the north, Arbuthnot Road to the east, Chancery Lane to the south and Old Bailey Street to the west.

The Site comprises three Declared Monuments designated under the *Antiquities and Monuments Ordinance* in 1995. They are:

- Central Police Station;
- Former Central Magistracy; and
- Victoria Prison Compound.

They are collectively named the Central Police Station (CPS). *Annex A2* shows the location of the Declared Monuments within CPS and the buildings within the CPS.

2.3 CONSTRUCTION ACTIVITIES

A summary of the major construction activities undertaken in this reporting period is shown in *Table 2.1* and illustrated in *Annex A3*.

Construction Activities Undertaken

- Construction of bored pile wall and foundation piles at Old Bailey Wing;
- Ground improvement works at lower ground floor at Block 14;
- General strip out works at Block 2, Block 3, Block 6, Block 7, Block 10, Block 11, Block 12, Block 13, Block 14 and Block 17;
- Structural addition and alteration works at Block 1;
- Roof tiling preparation works at Block 1;
- Demolition works at Block 3, Block 11 and Block 12;
- New structure construction at Block 11;
- Proof drill for grouting works at Block 14;
- Timber loading test at Block 3, Block 10, Block 13 and Block 14;
- Underpinning works at Block 14;
- Demolition of ground slab at Block 10 and Block 13;
- Excavation and lateral support works at Parade Ground;
- Foundation pile at Old Bailey Wing, Arbuthnot Wing, Block 8 and Block 17;
- Erection of loading test platform at Arbuthnot Wing;
- Loading test to trial working pile at Arbuthnot Wing;
- Removal of loading test platform at Arbuthnot Wing;
- Timber doors and windows repair works at Block 1, Block 3, Block 4, Block 6 and Block 7;
- E&M installation at Block 1;
- Full load test to masonry wall to Block 2, Block 3, Block 4, Block 9, Block 10, Block 13 and Block 15; and
- Additional bored hole at Old Bailey Street;
- Additional inclined drilled holes at revetment wall R55 at Old Bailey Street;
- External scaffolding erection at Block 2, Block 3, Block 4, Block 6, Block 7, Block 9 and Block 10.

2.4 CONSTRUCTION PROGRAMME

The most updated construction programme for the Project is presented in *Annex I*.

2.5 PROJECT ORGANISATION AND MANAGEMENT STRUCTURE

The Project organization chart, hotline number and contact details are shown in *Annex B*.

2.6 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project since the granting of the EP in April 2011 is presented in *Table 2.2*.

Permit/ Licences/ Notification	Reference	Validity Period	Remarks	
Environmental Permit (EP)	EP-408/2011	-	Superseded on 10 January 2012	
	EP-408/2011/A	-	Superseded on 22 March 2012	
	EP-408/2011/B	Throughout the Contract	Permit granted on 22 March 2012	
Notification of Construction Works as required under <i>Air</i> <i>Pollution Control</i> (<i>Construction Dust</i>) <i>Regulation</i>	Ref. No. 332920	Throughout the Contract	-	
Registration of Waste Producer under Waste Disposal Ordinance	Waste Producer No.: 5213-122-G2347-25	Throughout the Contract	-	
Effluent Discharge License under Water Pollution Control Ordinance	License No. WT00010633-2011	21 Oct 2011 – 31 Oct 2016	-	
Notification of Commencement of Asbestos Abatement Work under <i>Air</i> <i>Pollution Control</i> <i>Ordinance</i>	-	Throughout the Contract	EPD's letter (EPD's ref.: (5) in EPAC/A/4/000/23 3 II) dated 2 December 2011 satisfied that the content of the asbestos abatement plan (Report No.: 0210/11/ED/0078A) is in accordance with the APCO	
Approval of Asbestos Abatement Work (Phase 2)	-	Earliest commencement date on 26 January 2012	EPD's letter (EPD's ref:() in EPAC/A/4/000/23 3) dated 18 January 2012.	
Construction Noise Permit (CNP)	GW-RS0734-12	11 July 2012 at 0200 hours to 2 August 2012 at 0400 hours	Expired.	
	GW-RS0839-12	13 August 2012 at 1900 hours to 31 December 2012 at 0700 hours	Expired.	
	GW-RS1162-12	1 December 2012 at 0000 hours to 28 March 2013 at 0600 hours	Expired.	
	GW-RS0113-13	1 February 2013 at 0200 hours to 31 May 2013 at 0400 hours	Expired.	

Table 2.2Summary of Environmental Licensing, Notification and Permit Status

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
	GW-RS1301-12	2 January 2013 at 1900 hours to 29 June 2013 at 2300 hours	Expired.
	GW-RS0084-13	24 January 2013 at 1900 hours to 29 June 2013 at 0700 hours	Expired.
	GW-RS0638-13	16 June 2013 at 0700 hours to 15 September 2013 at 1900 hours	-
	GW-RS0714-13	29 June 2013 at 1900 hours to 28 December 2013 at 2400 hours	-
	GW-RS0745-13	5 July 2013 at 1900 hours to 30 December 2013 at 2300 hours	-

3.1 NOISE MONITORING

3.1.1 Monitoring Location

The construction noise monitoring locations are given in *Table 3.1* and shown in *Annex C*.

Table 3.1Construction Phase Noise Monitoring Locations

Monitoring Location	Proposed Construction Noise Monitoring Station			
	ID in EM&A Manual	ID	Type of Measurement	Remark
Rooftop of Ho Fook Building	N2	NM2	Façade	-
Rooftop of Chancery Mansion		NM6	Façade	Accesses to the original proposed monitoring location in the EM&A Manual, Chancery House (N5), were rejected; alternative location of Chancery Mansion (N6), were therefore proposed and approved by the Authorised Person (AP), the Independent Environmental Checker (IEC) and EPD.

The noise sensitive receivers are also shown in *Annex C*.

3.1.2 Monitoring Parameters, Frequency and Programme

Weekly construction noise monitoring was conducted in accordance with the requirements stipulated in the EM&A Manual. The monitoring programme for this reporting period is shown in *Annex D*.

The construction noise levels were measured in terms of A-weighted equivalent continuous sound pressure level (L_{eq}) in decibels dB(A). $L_{eq (30min)}$ were used as the monitoring parameter for the time period in between 0700 – 1900 hours on normal weekdays. Supplementary information for data auditing, two statistical sound levels L_{10} and L_{90} ; the levels exceeded for 10 and 90 percent of the time respectively, were also recorded during the monitoring for reference. The measured noise levels were logged in every 5 minutes throughout the impact monitoring period.

3.1.3 Monitoring Equipment and Methodology

Construction noise measurements were conducted in accordance with the calibration and measurement procedures as stated in *Annex – General Calibration and Measurement Procedures* of *Technical Memorandum on Noise from Construction Work other than Percussive Piling (GW-TM)* issued under the *Noise Control Ordinance (NCO)* (Cap 400).

The sound level meters and calibrator used for the noise measurement, as listed in *Table 3.2*, complies with IEC 651: 1979 and 804:1985 (Type 1) specification. The calibration certificates of the sound level meters are included in *Annex E*.

Table 3.2Noise Monitoring Equipment

Monitoring Stations	Monitoring Equipment (Sound Level Meter and Calibrator)
NM2, NM6	<u>Calibrator</u>
	Rion NC-73 (S/N 10997142; S/N 10786708)
	CEL 120 (S/N 3421612)
	Sound Level Meter
	Rion NL-31 (S/N 00603867; S/N 00410224)

Immediately prior to and following the noise measurements, the accuracy of the measurement equipment was checked using an acoustic calibrator generating a known sound pressure level at a known frequency.

Measurements were accepted as the calibration level from before and after the noise measurement agree to within 1.0 dB.

3.1.4 Event / Action Plan

Table 3.3Action and Limit Levels for Construction Noise Monitoring

Noise Monitoring Location	Action Level	Limit Level, L _{eq(30mins), dB(A)}	Remark
NM2, NM6	When one documented complaint is received from any one of the sensitive receivers	75 (note)	Applicable during 0700 – 1900 hours on normal weekdays.

Notes:

a) Acceptable Noise Levels for Area Sensitivity Rating of A/B/C. Limit Level is reduced to 70dB(A) for schools and 65dB(A) during school examination periods.

b) If works are to be carried out during restricted hours, the conditions stipulated in the CNP issued by the NCA have to be followed.

The Event / Action Plan (EAP) for noise monitoring is presented in Annex F.

3.1.5 *Mitigation Measures*

The mitigation measures in accordance with the EP, EIA and EM&A Manual and their implementation status are presented in *Annex G*.

3.2 CULTURAL HERITAGE

3.2.1 Vibration Monitoring

In accordance with the EM&A Manual, vibration monitoring is required and the vibration control limits and vibration monitoring proposal are defined by a specialist for AMO's approval.

Baseline Monitoring

A set of initial readings should be recorded prior to commencement of each stage of demolition works or trial piling works. The baseline vibration monitoring should be conducted for duration of 5 minutes on the measurement day(s) at each vibration monitoring location.

Vibration Monitoring for Demolition Works

There are five phases/stages of vibration monitoring to be carried out for demolition works, namely Initial Reading Phase, Monitoring Stage 1, Monitoring Stage 2, Monitoring Stage 3 and Monitoring Stage 4. The monitoring location is shown in *Annex L*. The vibration monitoring should be conducted for duration of 5 minutes on the days with demolition works at each vibration monitoring location.

Vibration Monitoring for Trial Piling and Pipe/Bored Piling Works

Vibration monitoring for trial piling works and pipe/bored piling works is required. The monitoring location is shown in *Annex L*. The vibration monitoring should be conducted for duration of 5 minutes on the days with trial piling works or pipe/bored piling works at each vibration monitoring location.

Vibration Monitoring for Other Construction Works

Vibration monitoring for specific construction works other than demolition works, trial piling works and pipe/bored piling works is also required in accordance with Building Department's requirement. The monitoring location is shown in *Annex M*. The number and location of monitoring location will depend on the location of the specific construction works. The vibration monitoring should be conducted for duration of 5 minutes on a daily basis (working day) at each vibration monitoring location.

Alert, Alarm and Action Levels

The Alert, Alarm and Action (AAA) Levels are to be implemented during the vibration monitoring and shown in *Table 3.4*.

ENVIRONMENTAL RESOURCES MANAGEMENT

Table 3.4Alert, Alarm and Action (AAA) Levels for Vibration Monitoring

Instrument Type	Item Monitored	Alert Level	Alarm Level	Action Level
Vibration Monitoring	Horizontal Movement	2.0 mm/s	2.5 mm/s	3.0 mm/s

The Event / Action Plan (EAP) for vibration monitoring is shown in Table 3.5.

Table 3.5Event and Action Plan for Vibration Monitoring

Events	Action
Exceedance of Alert Level	Notify Management Contractor
Exceedance of Alarm Level	Notify Authorised Person/ Resident Engineer
Exceedance of Action Level	Cease Works and submit mitigation

3.2.2 *Mitigation Measures*

Cultural heritage mitigation measures in accordance with the EP, EIA and EM&A Manual were implemented by the Contractor and the implementation status is given in *Annex G*.

3.3 LANDSCAPE AND VISUAL MONITORING

In accordance with the EM&A Manual, inspections of affected trees were conducted by an experienced and appropriately trained arborist. All irregularities that deviate from the recommended tree protection measures or could impose deleterious impacts on the protected trees were reported. Besides, implementation of mitigation measures for landscape and visual resources recommended in the EIA Report were also monitored during the site inspection.

3.3.1 *Mitigation Measures*

Landscape and visual mitigation measures in accordance with the EP, EIA and EM&A Manual were implemented by the Contractor and the implementation status is given in *Annex G*.

3.4 Environmental Requirements in Contract Documents

The environmental requirements as specified in the contract documents were reviewed and were covered in the EIA's requirements.

IMPLEMENTATION STATUS ON ENVIRONMENTAL MITIGATION MEASURES

The Contractor has generally implemented the environmental mitigation measures (including those for archaeology) and requirements as stated in the EIA Report, EM&A Manual, EP and the contract documents. The implementation status during the reporting period is summarised in *Annex G*.

Status of required submissions under the EP during the reporting period is presented in *Table 4.1*.

Submission		Submission Date
EP Condition		
Conditions 3.4	Eighteenth Monthly EM&A Report	14 May 2013
	Nineteenth Monthly EM&A Report	17 June 2013
	Twentieth Monthly EM&A Report	15 July 2013
EM&A Manual		
Section 10.4	Sixth Quarterly EM&A Report	10 June 2013

Table 4.1Status of Required Submissions

4

5.1 NOISE

A total of 16 sets of 30-minute construction noise measurements were carried out at each monitoring station, NM2 and NM6, during normal weekdays of the reporting period. The monitoring results together with graphical presentations are presented in *Annex H*. The local impacts observed near the monitoring stations of NM2 and NM6 were summarised below:

- NM2: construction noise from activities in the Project Site and traffic noise from Old Bailey Street.
- NM6: construction noise from activities in the Project Site and traffic noise from Chancery Lane.

No exceedance of the Action or Limit Level of construction noise was recorded during the reporting period.

5.2 LANDSCAPE AND VISUAL MONITORING

Three monthly tree inspections were conducted by the arborist during the reporting period on 14 May 2013, 3 June 2013 and 5 July 2013 and key findings and recommendations are summarised in *Table 5.1*.

Table 5.1Findings of Monthly Tree Inspections in the Reporting Period

Tree No.	Botanical Name	Overall Health Condition	Arborist's Observation / Recommendations
14 May 201	13		
Tree -5	Mangifera indica	Good	 Part of the cordon zone has been used as a worker storage room. The Contractor was reminded to beware of potential chemical spillage.
Tree -6	Aleurites moluccana	Fair	• No further action required.
Tree-7	Aleurites moluccana	Fair	• No further action required.
Tree-8	Plumeria rubra	Fair	• No further action required.
Tree-9	Araucaria cunninghamia	Fair	• Close monitoring of sap flow is recommended.
Tree-11	Dracaena marginata	Fair	• No further action required.
3 June 2013			
Tree -5	Mangifera indica	Good	Planter should be cleaned regularly;
			 To pay utmost attention to potential land pollution at the worker store room at all times.
Tree -6	Aleurites moluccana	Fair	• No further action required.

Tree No.	Botanical Name	Overall Health Condition	Arborist's Observation / Recommendations	
Tree-7	Aleurites moluccana	Fair	• No further action required.	
Tree-8	Plumeria rubra	Fair	• No further action required.	
Tree-9	Araucaria cunninghamia	Fair	• Close monitoring of sap flow is recommended.	
Tree-11	Dracaena marginata	Fair	• No further action required.	
5 July 2013				
Tree -5	Mangifera indica	Good	 Planter should be cleaned regularly; 	
			 Wounds were observed on the lower trunk. The lower trunk should be protected with hessian cloth; 	
			 Appropriate warning sign should be displayed in front of Tree-5. 	
Tree -6	Aleurites moluccana	Fair	• No further action required.	
Tree-7	Aleurites moluccana	Fair	• No further action required.	
Tree-8	Plumeria rubra	Fair	• No further action required.	
Tree-9	Araucaria cunninghamia	Fair	• No further action required.	
Tree-11	Dracaena marginata	Fair	 Planter should be cleaned regularly; 	
			 Sharp edge of the scaffold nearby has damaged the tree. The lower trunk should be protected with hessian cloth; 	
			 Appropriate warning sign should be displayed in front of Tree-11. 	

Follow-up actions needed to be implemented were recommended to the Contractor and the status of the follow-up actions was reviewed during the subsequent monthly site inspections. Recommendations have generally been implemented by the Contractor during the reporting period.

5.3 CULTURAL HERITAGE

5.3.1 Vibration Monitoring

Trial Piling and Piling works

Vibration monitoring carried out for the trial piling and piling works during the reporting period are listed below:

May 2013:

• 25 vibration monitoring measurements for the construction of the pipe pile walls at Parade Ground;

- 25 vibration monitoring measurements for the foundation pile works at Block 8;
- 25 vibration monitoring measurements for the construction of pipe pile walls at Old Bailey Wing (Block 50);
- 25 vibration monitoring measurements for the shaft grouted pre-bored H-piles at Block 51;
- 20 vibration monitoring measurements for the steel shear H-piles at Block 17; and
- 5 vibration monitoring measurements for the weekly vibration monitoring for the trial piling near Block 17.

June 2013:

- 24 vibration monitoring measurements for the construction of the pipe pile walls at Parade Ground;
- 24 vibration monitoring measurements for the foundation pile works at Block 8;
- 24 vibration monitoring measurements for the construction of pipe pile walls at Old Bailey Wing (Block 50);
- 24 vibration monitoring measurements for the shaft grouted pre-bored H-piles at Block 51;
- 24 vibration monitoring measurements for the steel shear H-piles at Block 17; and
- 4 vibration monitoring measurements for the weekly vibration monitoring for the trial piling near Block 17.

July 2013:

- 26 vibration monitoring measurements for the construction of the pipe pile walls at Parade Ground;
- 26 vibration monitoring measurements for the foundation pile works at Block 8;
- 26 vibration monitoring measurements for the construction of pipe pile walls at Old Bailey Wing (Block 50);
- 26 vibration monitoring measurements for the shaft grouted pre-bored H-piles at Block 51; and
- 26 vibration monitoring measurements for the steel shear H-piles at Block 17.

The monitoring results are presented in *Annex L*.

Other Construction Works

Vibration monitoring carried out for other construction works during the reporting period are listed below:

May 2013:

- 25 vibration monitoring measurements for the structural addition and alteration works at Block 1; and
- 25 vibration monitoring measurements for the structural addition and alteration works at Block 14.

June 2013:

- 24 vibration monitoring measurements for the structural addition and alteration works at Block 1;
- 24 vibration monitoring measurements for the structural addition and alteration works at Block 14; and
- 24 vibration monitoring measurements for the structural addition and alteration works at Block 11.

July 2013:

- 26 vibration monitoring measurements for the structural addition and alteration works at Block 1;
- 26 vibration monitoring measurements for the structural addition and alteration works at Block 14; and
- 26 vibration monitoring measurements for the structural addition and alteration works at Block 11.

The monitoring results are presented in *Annex M*.

All monitoring results were below the Alert/ Alarm/ Action Levels.

5.3.2 Heritage Site Audit

Heritage site audits were conducted on 2, 3, 8, 9, 10, 14, 15, 16, 21 and 24 May 2013; 3, 4, 5, 11, 14, 17, 18, 19, 20, 21 and 25 June 2013; 3, 4, 9, 10, 11, 12, 17, 18, 19, 23, 25 and 26 July 2013 by the Heritage Checker during the reporting period. Follow-up actions were undertaken as reported by the Contractor and observed in the subsequent monthly site inspections conducted in the reporting period. Key site audit findings and recommendations are summarised below.

16 May 2013

• Lower ground level south side of Building 1 is vulnerable to water ingress during inclement weather. Better protection is recommended to avoid further damage to the building fabric.

21 May 2013

• It was noticed that a rainwater pipe to Building 1 northeast corridor had no temporary pipe, causing window frame 01/WLG2/09 wet and the floor 01/LG2/15 saturated.

19 June 2013

• Timber frame of 03/DG/06 in Building 3 has been damaged, potentially caused either during the process of paint removal or fanlight/door leaf removal. Improvement of the protection is required.

20 June 2013

• Two cigarette boxes were found on the timber floor of room 03/F/25 in Building 3.

25 June 2013

• It was noticed that timber floor load test in Block 10 failed due to leakage of water.

4 July 2013

• A worker was observed pouring a large tank of water through window 14/WS/24 of Building 14. The worker was stopped immediately and the Contractor was later informed of the incident.

10 July 2013

- It was observed that scaffold was laid on unprotected timber floor on the second floor of Building 4.
- It was noticed that some redundant light fittings were placed above the timber threshold and timber floor on second floor of Building 4.

25 July 2013

- It was noticed that Rooms 01/F/01 and 01/F/27 of Block 1 was flooded. The issue has been rectified.
- Ceiling boards of 04/S/20 at the east side of Building 4 were in risk of falling. Remedial action was taken immediately.
- It was observed that some timber frame, skirting, ceramic tiles, etc. of Building 1 were not fully protected. The Contractor was reminded to maintain proper protection.

• Guano was observed on the floor of Room 04/F/02 of Building 4. The Contractor was reminded to carry out regular clean up.

A summary of the current condition of character defining elements, historic buildings and structures is contained in *Annex N*.

5.4 WASTE MANAGEMENT

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. Non-inert C&D materials were made up of wastes such as general refuse. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting period are summarised in *Table 5.2*. The summary of Waste Flow Table prepared by the Contractor is shown in *Annex J*. The non-inert C&D materials and general refuse generated from the Project were disposed of at the SENT Landfill. 39,279 kg of metals and 230 kg of paper/cardboard packaging were produced and sent to recyclers for recycling. No plastics waste was generated during the reporting period. No chemical waste was produced during the reporting period.

Table 5.2Quantities of Waste Generated from the Project

Month / Year	Quantity						
	C&D	C&D	Chemical		Recycled materials		
	Materials	Materials	Waste				
	(inert)	(non-inert)	Liquid	Solid	Paper/cardboard	Plastics	Metals
	(tonnes) ^(a)	(tonnes) (b)	(L)	(kg)	(kg)	(kg)	(kg)
May 2013	2,679.91	176.68	0	0	62	0	17,286
June 2013	3,062.38	212.63	0	0	0	0	7,150
July 2013	3,814.86	114.36	0	0	168	0	14,843
Total	9,557.15	503.67	0	0	230	0	39,279

Notes:

5.5

(a) Inert C&D materials include bricks, concrete, building debris, rubble and excavated soil.

(b) Non-inert C&D materials include wastes such as general refuse which were disposed of at SENT Landfill and recyclable materials are paper, cardboard, plastics and metals. The figure presented under non-inert C&D materials represents quantities of non-recyclable materials. Recycled materials are reported separately.

EFFECTIVENESS OF MITIGATION MEASURES AND MONITORING

The mitigation measures recommended in the EIA report and required by the EP are considered effective in minimising environmental impacts.

The EM&A for the Project was conducted as scheduled during the reporting period. No non-compliance events were observed during site inspections and no exceedances were recorded during the reporting period. The EM&A programme is considered effective.

Three monthly environmental site inspections were conducted on 16 May 2013, 20 June 2013 and 25 July 2013 during the reporting period. There was no non-compliance recorded during the site inspections. Key site audit findings and recommendations are summarised below. Monthly recommendations and observations were implemented and rectified by the Contractor in the subsequent monthly site inspections.

16 May 2013

• Nil.

20 June 2013

• Nil.

25 July 2013

- A small amount of muddy water was observed in the stormwater drainage channel close to the excavation area at the Parade Ground. The Contractor was reminded to provide a shoe washing area for workers leaving the excavation area. This helps to avoid mud or sand being brought out of the excavation area. The Contractor should review the temporary surface runoff management system to avoid discharge of muddy water directly from the excavation area into the stormwater drainage channel;
- Different types of materials were observed being stored in Block 1. The Contractor was reminded to store the materials properly in designated area and to maintain good housekeeping throughout the Project Site; and
- Part of the cordon zone of Tree-5 has been used as a worker storage room with temporary access. The Contractor was reminded to seek advice from the arborist regarding the potential impact of these activities on Tree-5 and to confirm these uses are acceptable.

7 ENVIRONMENTAL NON-CONFORMANCE

7.1.1	Summary of Monitoring Exceedance
	No exceedance of the Action or Limit Level of construction noise or Alert, Alarm and Action Level of vibration was recorded during the reporting period.
7.1.2	Summary of Enquiry
	No enquiry was received during the reporting period.
7.1.3	Summary of Environmental Non-Compliance
	No non-compliance event was recorded during the reporting period.
7.1.4	Summary of Environmental Complaint
	No complaint was received during the reporting period. The cumulative number of complaints is presented in <i>Annex K</i> .
7.1.5	Summary of Environmental Summons and Successful Prosecution
	No summons was received during the reporting period. The cumulative summons/prosecution log is shown in <i>Annex K</i> .

8.1 NOISE

A comparison was made between the monitoring results in this reporting period and the Noise Standard for general construction works during 0700 – 1900 hrs on normal weekdays (*Table 8.1*).

Table 8.1Comparison of Construction Noise Standard and Noise Monitoring Results

Reporting Month	Monitoring Stations	Corresponding NSR in EIA	Noise Limit Level	Predicted Construction Noise Level (With Mitigation) in EIA	Measured Construction Noise Level
			L _{wq, 30 min} dB(A)	L _{wq, 30 min} dB(A)	L _{wq, 30 min} dB(A)
May 2013	NM2	N2	75	67 - 72	65.1 – 70.8
	NM6	N6	75	73 - 75	65.8 - 69.9
June 2013	NM2	N2	75	67 - 72	66.4 - 68.8
	NM6	N6	75	73 - 75	68.6 - 71.0
July 2013	NM2	N2	75	67 - 72	66.2 - 70.8
	NM6	N6	75	73 - 75	68.0 - 71.8

The monitoring results recorded since the commencement of the construction works have been below the Limit Level and comparable to the predicted construction noise level in the approved EIA. Recommended mitigation measures in *Section 5.9.1* of EIA will continue to be implemented throughout the construction stage.

8.2 WASTE MANAGEMENT

The estimated amount of waste generated in the approved EIA and the accumulated quantities of waste generated up to this reporting period are presented in *Table 8.2*. The accumulated amount of inert and non-inert C&D materials is within the estimated amount in EIA. The major chemical waste generated on site was primarily asbestos which was not estimated in the approved EIA and hence no data is available for comparison. Recommended mitigation measures in *Section 8.5.1* of the EIA will continue to be implemented throughout the construction stage.

8

Table 8.2Quantity of Actual Amount of C&D Materials, General Wastes and Chemical
Wastes Generated and EIA Estimation

Type of Material	Estimated Amount of Waste in EIA	Accumulated Actual Amount of Waste Recorded ^{(a) (b)}
Amount of C&D Materials (Inert) Arising	16,440 m ³	10,740 m ³
Amount of C&D Materials (Non-inert) Arising	890 m ³	2,613 m ³
General Refuse	130 kg per day	_ (c)
Chemical Waste	Less than 100L per month	- 57 L (liquid)
		- 175 kg (solid)
		- 7,000 kg of asbestos generated

Notes:

(a) The accumulated actual amount of C&D Materials was recorded since the commencement of construction works.

(b) The volume of waste materials are provided by the Contractor based on the updated waste record in July 2013.

(c) The amount of general refuse generated was not recorded.

8.3 SUMMARY OF REVIEW

The EIA predictions and the monitoring results since the commencement of construction works have been reviewed. The EIA concluded that the Project would not cause adverse impacts to the environment and the monitoring results have also indicated the same so far. Mitigation measures (including those for archaeology) recommended in the EP, EIA and EM&A Manual were implemented by the Contractor as far as practicable and were considered effective. The recommended mitigation measures will continue to be implemented throughout the construction phase of the Project.

The effectiveness of the monitoring programme has been exhibited therefore change to the programme is not considered to be necessary.

9 CONCLUSIONS

This seventh Quarterly EM&A Report presents the EM&A works undertaken during the reporting period from 1 May 2013 to 31 July 2013 in accordance with EM&A Manual and the requirements under EP-408/2011/B.

No exceedance of the Action or Limit Level of construction noise was recorded at designated monitoring stations during the reporting period.

Tree inspections were conducted in this reporting period. Most of the necessary landscape and visual mitigation measures recommended in the EIA Report were implemented by the Contractor.

No exceedance of the Alert, Alarm and Action Levels of vibration was recorded during the reporting period.

No enquiry was received during the reporting period.

No non-compliance event for heritage and environmental site inspections was recorded during the reporting period.

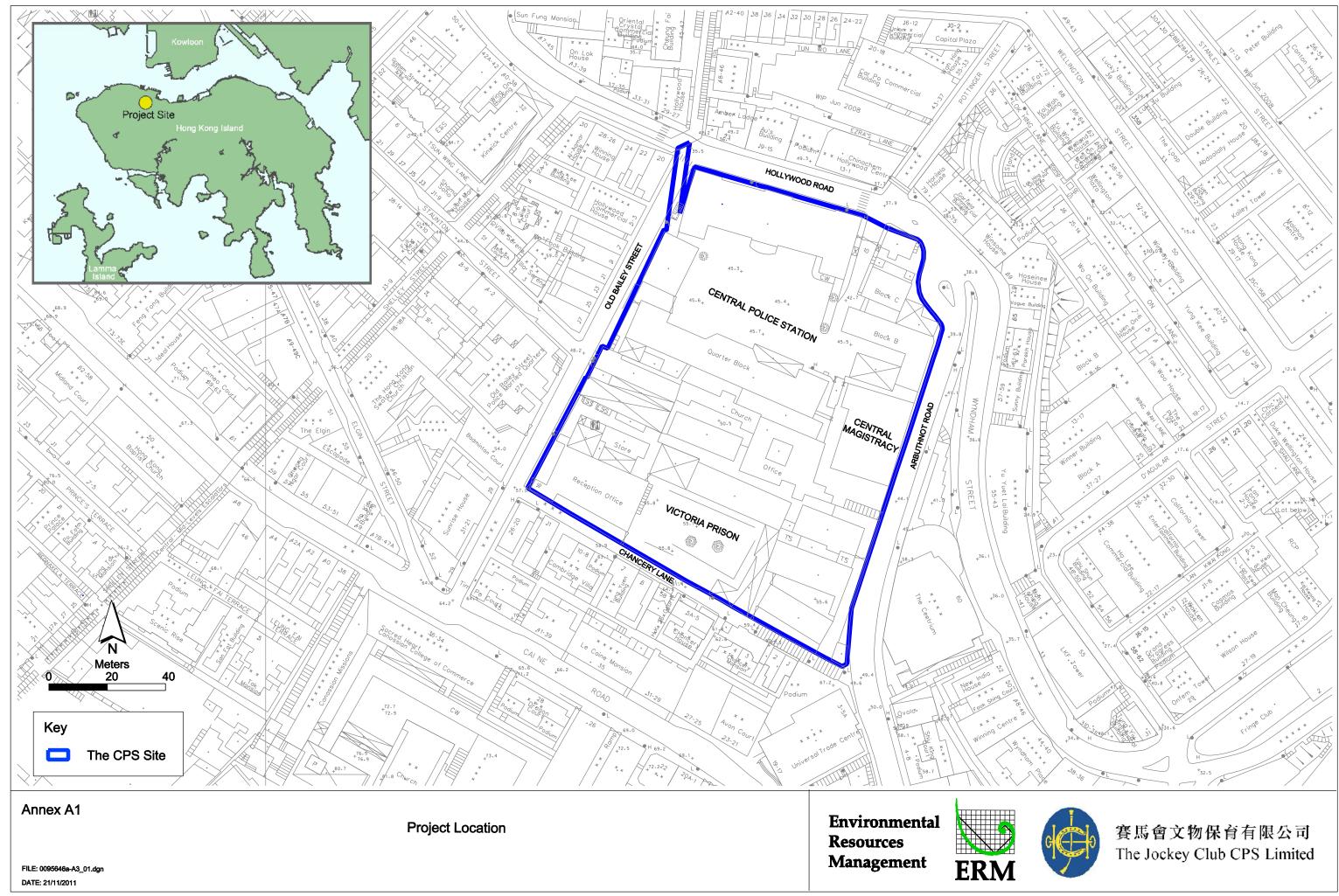
No complaint was received during the reporting period.

No summons/prosecution was received during the reporting period.

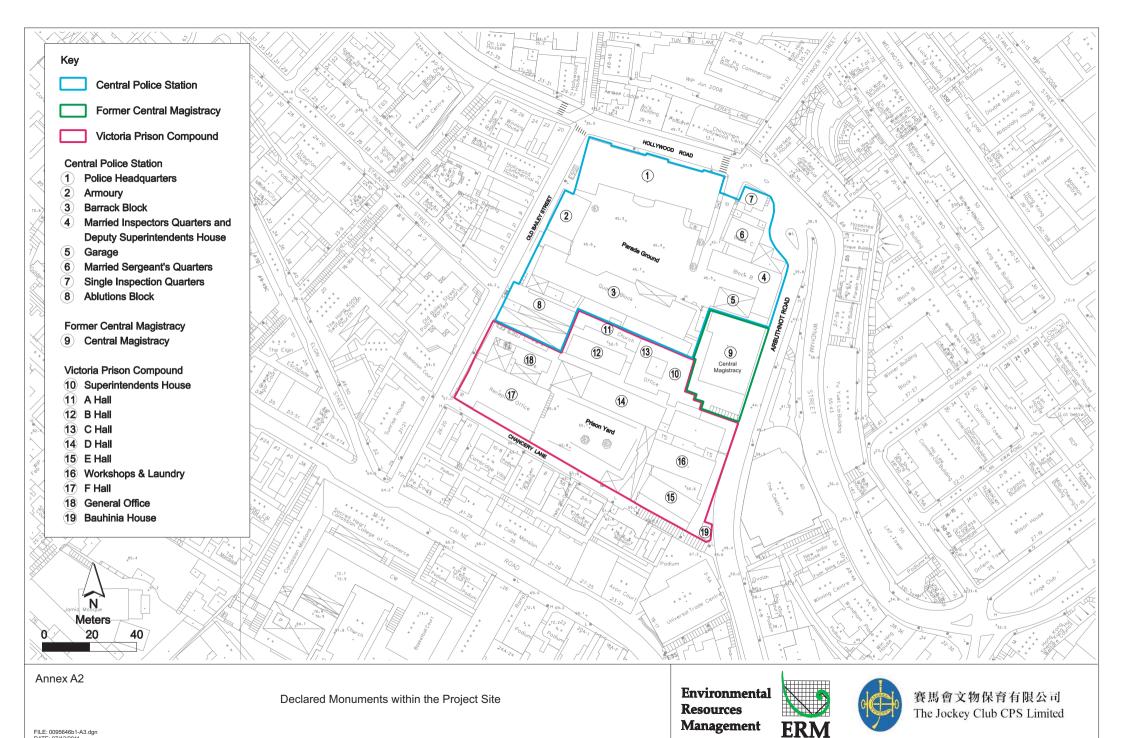
The monitoring programme was considered effective in reflecting the environmental conditions at the designated representative sensitive receivers. The monitoring results also indicate that the Project have not caused adverse impacts on the environment with implementation of appropriate mitigation measures. Change to the monitoring programme is not considered to be necessary. The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures in the coming periods.

Location of Works Areas and the Surroundings

Project Location

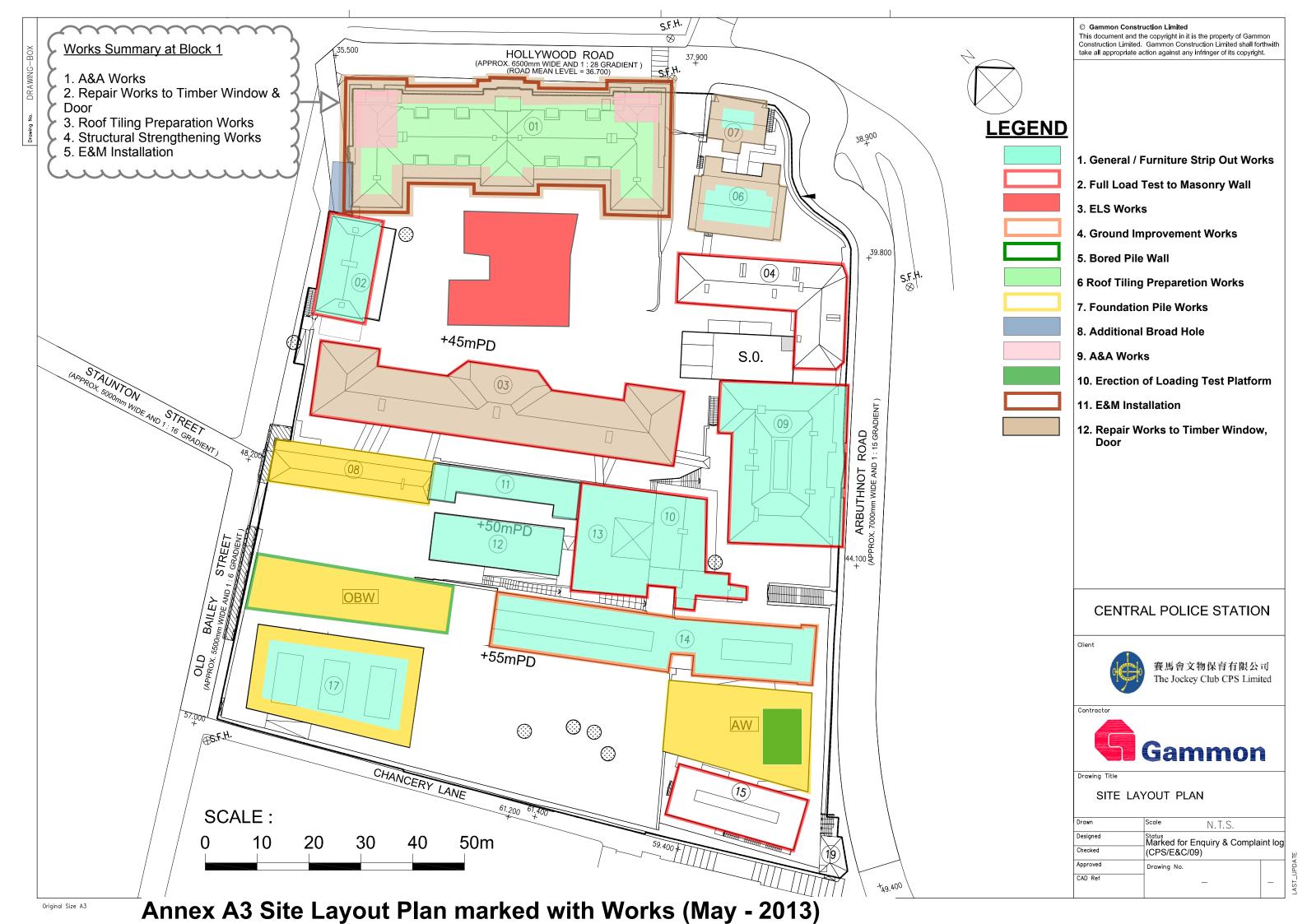


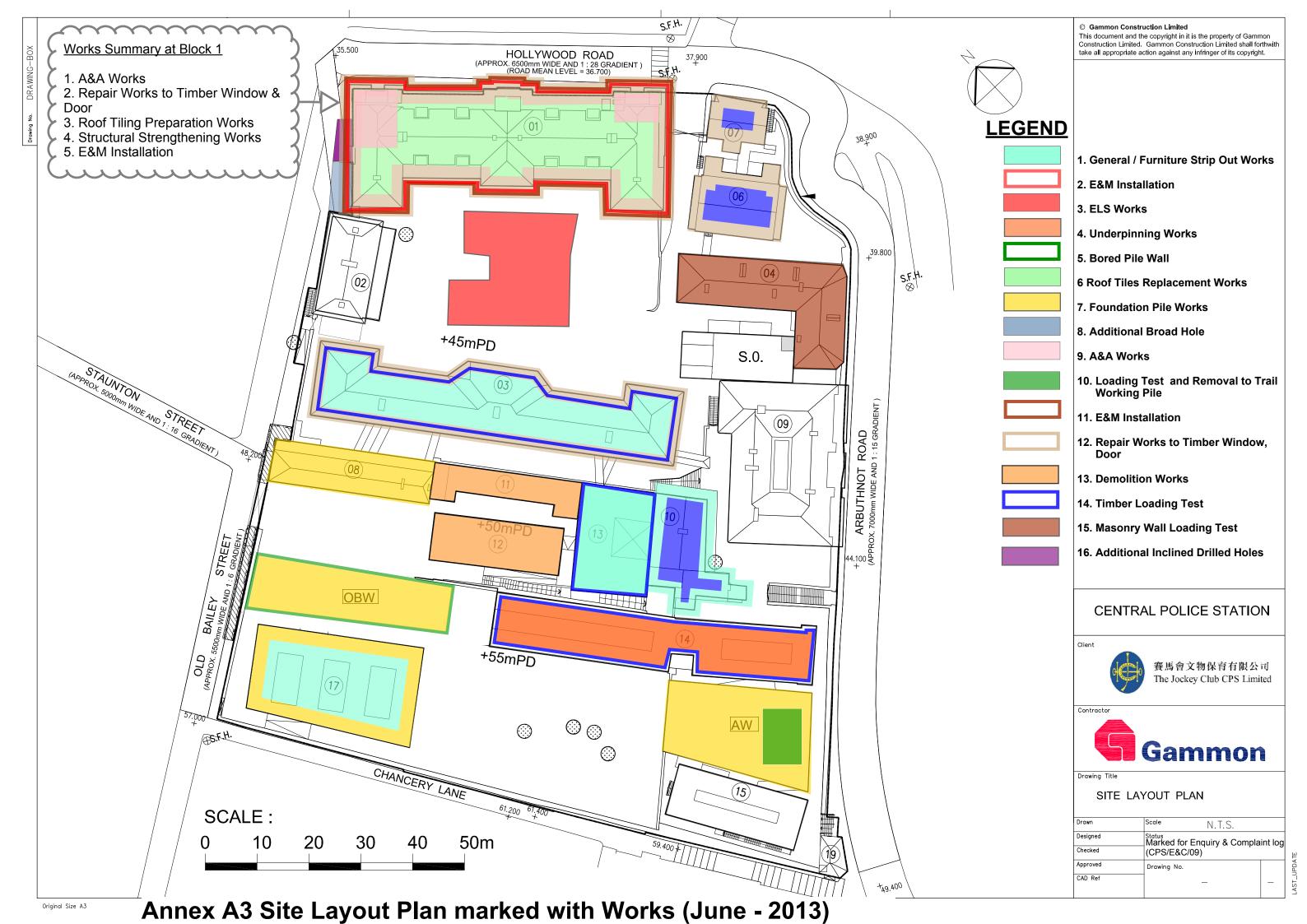
Declared Monuments within the Project Site

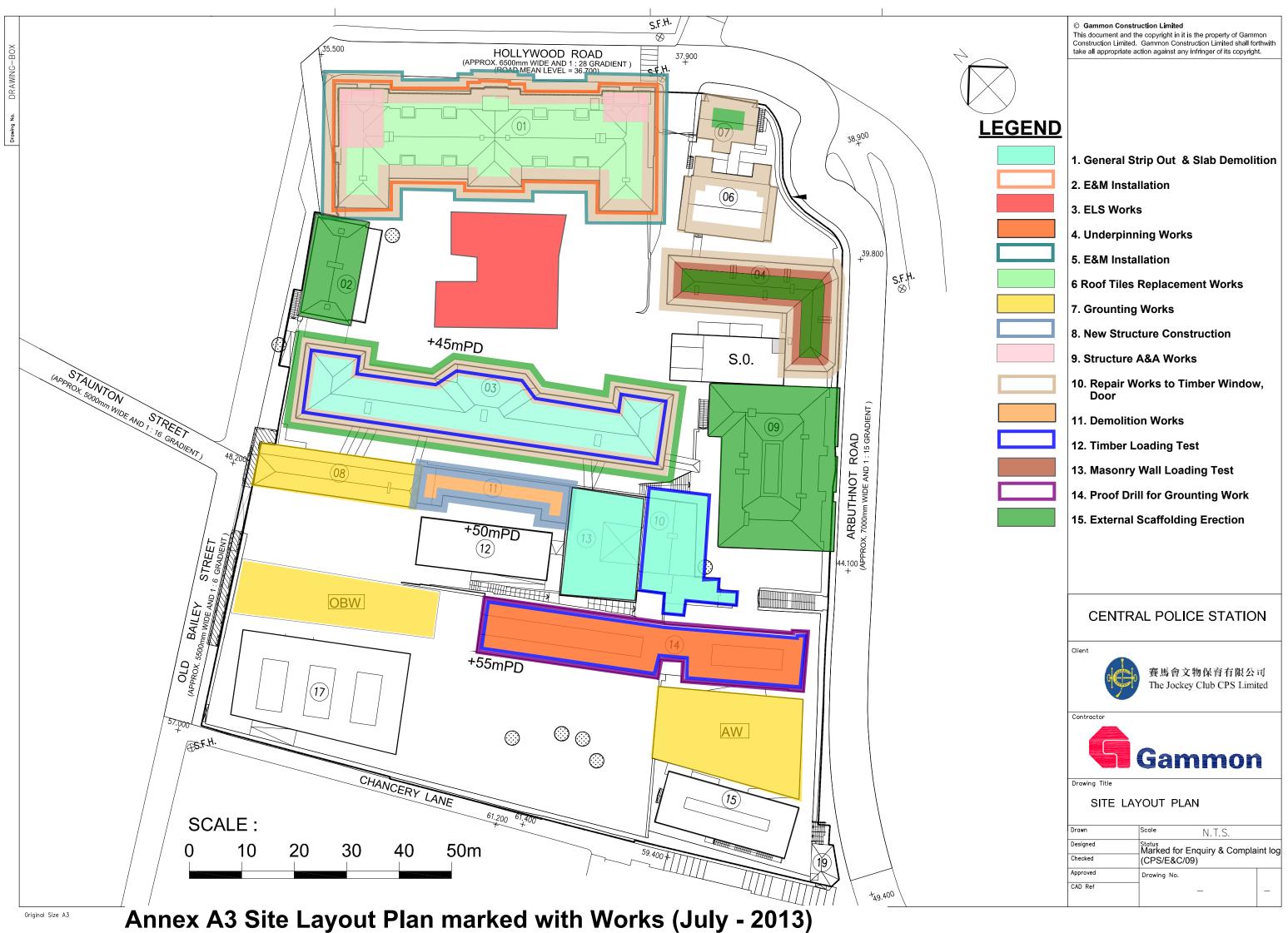


FILE: 0095646b1-A3.dgn DATE: 07/12/2011

Site Layout Plan marked with Works



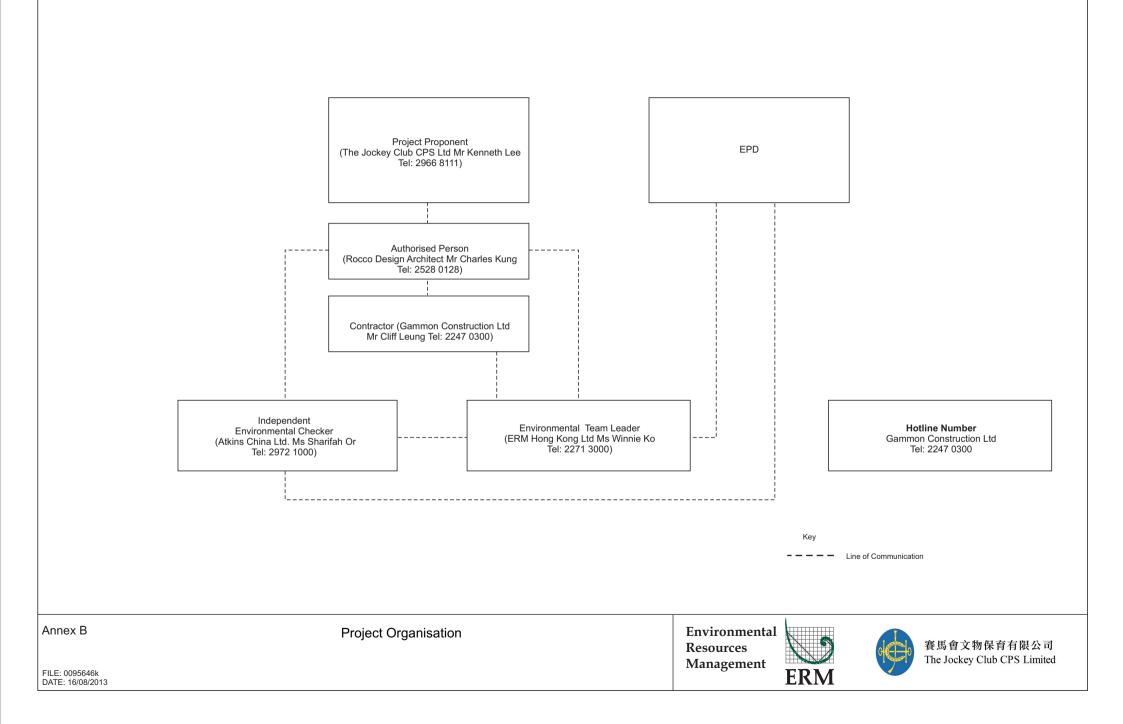




-AST_UPDA-

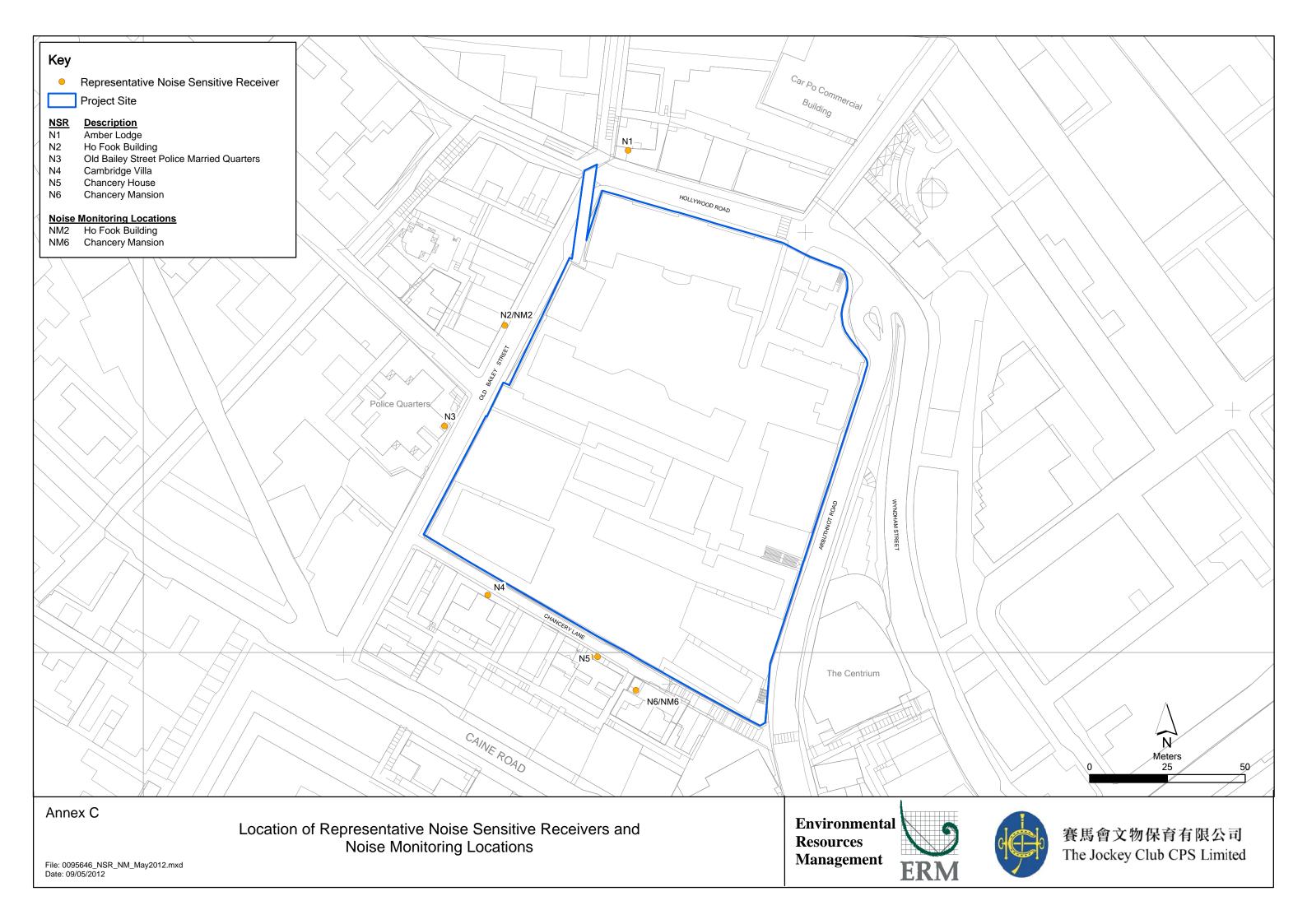
Annex B

Project Organization Chart and Contact Detail



Annex C

Locations of Noise Monitoring Stations and Noise Sensitive Receivers



Annex D

Monitoring Schedule of the Reporting Period

Central Police Station Compound Conservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Reporting Month - May 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			01-May	02-May	03-May	04-May
05-May	06-May	07-May	08-May	09-May	10-May	11-May
	Noise Monitoring at NM2 & NM6					Noise Monitoring at NM2 & NM6
12-May	13-May	14-May	15-May	16-May	17-May	18-May
				Noise Monitoring at NM2 & NM6		
19-May	20-May	21-May	22-May	23-May	24-May	25-May
			Noise Monitoring at NM2 & NM6			
26-May	27-May	28-May	29-May	30-May	31-May	
		Noise Monitoring at NM2 & NM6				

Central Police Station Compound Conservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Reporting Month - June 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01-Jun
02-Jun	03-Jun	04-Jun	05-Jun	06-Jun	07-Jun	08-Jun
	Noise Monitoring					Noise Monitoring
	at NM2 & NM6					at NM2 & NM6
09-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	15-Jun
09-0011	10-0uii	11-5011	12-0011	13-5011	14-5011	13-301
					Noise Monitoring	
					at NM2 & NM6	
16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun	22-Jun
				Naise Menitering		
				Noise Monitoring at NM2 & NM6		
23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	29-Jun
			Noise Monitoring			
			at NM2 & NM6			
30-Jun						

Central Police Station Compound Conservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Reporting Month - July 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	01-Jul	02-Jul	03-Jul	04-Jul	05-Jul	06-Jul
		Noise Monitoring at NM2 & NM6				
07-Jul	08-Jul	09-Jul	10-Jul	11-Jul	12-Jul	13-Jul
	Noise Monitoring at NM2 & NM6					Noise Monitoring at NM2 & NM6
14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul	20-Jul
					Noise Monitoring at NM2 & NM6	
21-Jul	22-Jul	23-Jul	24-Jul	25-Jul	26-Jul	27-Jul
				Noise Monitoring at NM2 & NM6		
28-Jul	29-Jul	30-Jul	31-Jul			
			Noise Monitoring at NM2 & NM6			

Annex E

Calibration Reports for Calibrators and Sound Level Meters



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C124184 證書編號

ITEM TESTED / 送檢功	頁目	(Job No. / 序引編號:IC12-1770)
Description / 儀器名稱	:	Sound Level Calibrator
Manufacturer / 製造商	:	Rion
Model No. / 型號	:	NC-73
Serial No. / 編號	:	10786708
Supplied By / 委託者	:	Envirotech Services Co.
		Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
		Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Line Voltage / 電壓 : --- Relative Humidity / 相對濕度 : (55 ± 20)%

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 17 July 2012

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only. All results are within manufacturer's specification. The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies, USA
- Fluke Everett Service Center, USA
- Rohde & Schwarz Laboratory, Germany

Tested By 測試

L K Yeung

K C Lee

Certified By 核證 Date of Issue 簽發日期 :

18 July 2012

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。



Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C124184 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- 2. The results presented are the mean of 3 measurements at each calibration point.
- 3. Test equipment :

Equipment ID CL130 CL281 TST150A Description Universal Counter Multifunction Acoustic Calibrator Measuring Amplifier <u>Certificate No.</u> C123541 DC110233 C120886

- 4. Test procedure : MA100N.
- 5. Results :

5.1 Sound Level Accuracy

UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	93.9	± 0.5	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.990	1 kHz ± 2 %	± 1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



輝創工程有限公司 Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C124011 證書編號

ITEM TESTED / 送檢环	頁目	(Job No. / 序引編號 :IC12-1674)
Description / 儀器名稱	:	Sound Level Calibrator
Manufacturer / 製造商	:	Rion
Model No. / 型號	:	NC-73
Serial No. / 編號	:	10997142
Supplied By / 委託者	:	Envirotech Services Co.
		Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
		Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Line Voltage / 電壓 : --- Relative Humidity / 相對濕度 : (55 ± 20)%

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 9 July 2012

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only. All results are within manufacturer's specification. The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

L K Yeung

Certified By 核證

Tested By 測試

> Date of Issue : 簽發日期

10 July 2012

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

K C Lee



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C124011 證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement 1 of the test.
- 2. The results presented are the mean of 3 measurements at each calibration point.
- 3. Test equipment :

Equipment ID CL130 CL281 TST150A

Description Universal Counter Multifunction Acoustic Calibrator Measuring Amplifier

Certificate No. C123541 DC110233 C120886

- 4. Test procedure : MA100N.
- 5. Results :

Sound Level Accuracy 5.1

UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	94.0	± 0.5	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.990	1 kHz ± 2 %	± 1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior

CASELLA

Certificate of **Conformance and Calibration for**

CEL-120 Acou	stic Calibrator
Applicable Standards :-IEC 60	0942: 2003 & ANSI S1.40: 2006
CEL-120/1 Class 1	
CEL-120/2 Class 2	
Serial No: 342161 Firmware: 1.03 Temperature: 11 °C Pre	2 ssure: \008 mb %RH <u>54</u>
Frequency = 1.00kHz ± 2Hz T.H.D. = < 1%	Calibration Level
SPL @ 114.0dB Setting	114.0 dB
SPL @ 94.0dB Setting	ID / Not

tting	94.0	dB/N A

Engineer :-

(CEL-120/1 only)

14 Date: <u>2</u> 8 ΔΙΙΓ 2012 *R-ξ-0*

Company test equipment and acoustic working standards, used for conformance testing, are subject to periodic calibration, traceable to UK national standards, in accordance with the company's ISO9001 Quality System.

DECLARATION OF CONFORMITY

This certificate confirms that the instrument specified above has been produced and tested to comply with the manufacturer's published specifications and the relevant European Community CE directives.

Casella CEL (U.K.),

Regent House, Wolseley Road, Kempston, Bedford, MK42 71Y Fax: +44 (0) 1234 841490 Phone: +44 (0) 1234 844100 E-mail: info@casellacel.com Web: www.casellameasurement.com

198032A-01



Certificate No. : C124191 證書編號

ITEM TESTED / 送檢功	頁目	(Job No. / 序引編號:IC12-1770)
Description / 儀器名稱	:	Sound Level Meter
Manufacturer / 製造商	:	Rion
Model No. / 型號	:	NL-31
Serial No. / 編號	:	00603867
Supplied By / 委託者	:	Envirotech Services Co.
		Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
		Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}C$ Line Voltage / 電壓 : ---

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 18 July 2012 :

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only. All results are within manufacturer's specification. The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies, USA
- Fluke Everett Service Center, USA
- Fluke Precision Measurement Ltd., UK
- Rohde & Schwarz Laboratory, Germany

Tested By 測試 L K Yeung

Certified By Date of Issue : 18 July 2012 核證 簽發日期 K C Lee

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Sun Creation Engineering Limited - Calibration & Testing Laboratory

c'o 4/F. Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong 輝創工程有限公司 – 校正及檢測實驗所

c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel/電話: 2927 2606 Fax/傳真: 2744 8986

E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 交正證書

Certificate No. : C124191 證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm 1. up for over 10 minutes before the commencement of the test.
- 2. Self-calibration was performed before the test.
- The results presented are the mean of 3 measurements at each calibration point. 3.
- 4. Test equipment :

Equipment ID CL280 CL281

Description 40 MHz Arbitrary Waveform Generator Multifunction Acoustic Calibrator

Certificate No. C120016 DC110233

- 5. Test procedure : MA101N.
- 6. Results :
- Sound Pressure Level 6.1

6.1.1 Reference Sound Pressure Level

	UU	UT Setting		Applied	Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L _A	A	Fast	94.00	1	93.8	± 1.1

6.1.2 Linearity

	UU	JT Setting		Applied	Value	UUT
Range	Mode	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 120	L _A	А	Fast	94.00	1	93.8 (Ref.)
				104.00		103.8
				114.00		113.8

IEC 61672 Class 1 Spec. : \pm 0.6 dB per 10 dB step and \pm 1.1 dB for overall different.

6.2 Time Weighting

UUT Setting				Applied Value		UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L _A	А	Fast	94.00	1	93.8	Ref.
			Slow			93.7	± 0.3

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Sun Creation Engineering Limited - Calibration & Testing Laboratory

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 - 校正及檢測實驗所

c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel/電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory



Certificate No. : C124191 證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

		T Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	-	(dB)	(dB)
30 - 120	LA	A	Fast	94.00	63 Hz	67.6	-26.2 ± 1.5
					125 Hz	77.6	-16.1 ± 1.5
					250 Hz	85.1	-8.6 ± 1.4
					500 Hz	90.6	-3.2 ± 1.4
					1 kHz	93.8	Ref.
					2 kHz	95.1	$+1.2 \pm 1.6$
					4 kHz	95.0	$+1.0 \pm 1.6$
					8 kHz	92.8	-1.1 (+2.1 ; -3.1)
					12.5 kHz	89.9	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

e menginening							
	UU	T Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 120	L _C	С	Fast	94.00	63 Hz	93.0	-0.8 ± 1.5
					125 Hz	93.6	-0.2 ± 1.5
					250 Hz	93.8	0.0 ± 1.4
					500 Hz	93.9	0.0 ± 1.4
					1 kHz	93.9	Ref.
					2 kHz	93.7	-0.2 ± 1.6
					4 kHz	93.2	-0.8 ± 1.6
					8 kHz	90.9	-3.0 (+2.1 ; -3.1)
					12.5 kHz	88.1	-6.2 (+3.0 ; -6.0)

Remarks : - Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value : 94	dB : 63 Hz - 125 Hz 250 Hz - 500 Hz	
	1 kHz	
	2 kHz - 4 kHz	: ± 0.35 dB
	8 kHz	: ± 0.45 dB
	12.5 kHz	: ± 0.70 dB
104	4 dB : 1 kHz	$\pm 0.10 \text{ dB}$ (Ref. 94 dB)
114	4 dB : 1 kHz	$\pm 0.10 \text{ dB} (\text{Ref. 94 dB})$

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。



Certificate No.: C133573 證書編號

ITEM TESTED / 送檢項	目	(Job No. / 序引編號:IC13-1422)
Description / 儀器名稱 :		Sound Level Meter
Manufacturer / 製造商 :		Rion
Model No. / 型號 :		NL-31
Serial No. / 編號 :		00410224
Supplied By / 委託者 :		Envirotech Services Co.
		Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
		Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Line Voltage / 電壓 : --- Relative Humidity / 相對濕度 : (55 ± 20)%

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 14 June 2013

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only. All results are within manufacturer's specification. The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tel/電話: 2927 2606 Fax/傳真: 2744 8986

Tested By 測試	:	K C Lee			
Certified By 核證	:	K K Wong	Date of Issue 簽發日期	:	17 June 2013

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

Website/網址: www.suncreation.com

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

E-mail/電郵: callab@suncreation.com

Page 1 of 3



Certificate No. : C133573 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration was performed before the test.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL280	40 MHz Arbitrary Waveform Generator	C130019
CL281	Multifunction Acoustic Calibrator	DC110233

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level

	UU	JT Setting		Applied	Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	LA	А	Fast	94.00	1	93.6	± 1.1

6.1.2 Linearity

	UUT Setting				l Value	UUT
Range	Mode	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 120	L _A	A	Fast	94.00	1	93.6 (Ref.)
				104.00		103.6
				114.00		113.6

IEC 61672 Class 1 Spec. : \pm 0.6 dB per 10 dB step and \pm 1.1 dB for overall different.

6.2 Time Weighting

	UUT Setting				l Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L _A	А	Fast	94.00	1	93.6	Ref.
			Slow			93.5	± 0.3

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。



Certificate No. : C133573 證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

A-weighting							
	UU	T Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	-	(dB)	(dB)
30 - 120	L _A	А	Fast	94.00	63 Hz	67.3	-26.2 ± 1.5
					125 Hz	77.3	-16.1 ± 1.5
					250 Hz	84.9	-8.6 ± 1.4
					500 Hz	90.3	-3.2 ± 1.4
					1 kHz	93.6	Ref.
					2 kHz	94.9	$+1.2 \pm 1.6$
					4 kHz	94.8	$+1.0 \pm 1.6$
					8 kHz	92.6	-1.1 (+2.1;-3.1)
					12.5 kHz	89.7	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

		T Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 120	L _C	С	Fast	94.00	63 Hz	92.7	-0.8 ± 1.5
					125 Hz	93.4	-0.2 ± 1.5
					250 Hz	93.6	0.0 ± 1.4
					500 Hz	93.7	0.0 ± 1.4
					1 kHz	93.7	Ref.
					2 kHz	93.5	-0.2 ± 1.6
					4 kHz	93.0	-0.8 ± 1.6
					8 kHz	90.7	-3.0 (+2.1;-3.1)
					12.5 kHz	87.9	-6.2 (+3.0 ; -6.0)

Remarks : - UUT Microphone Model No. : UC-53A & S/N : 307154

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value : 94 dB	: 63 Hz - 125 Hz : ± 0.35 dB 250 Hz - 500 Hz : ± 0.30 dB
	1 kHz : $\pm 0.20 \text{ dB}$
	$2 \text{ kHz} - 4 \text{ kHz}$: $\pm 0.35 \text{ dB}$
	8 kHz : $\pm 0.45 \text{ dB}$
	12.5 kHz : $\pm 0.70 \text{ dB}$
104 d	B : 1 kHz : \pm 0.10 dB (Ref. 94 dB)
114 d	B : 1 kHz : $\pm 0.10 \text{ dB}$ (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

Annex F

Event/Action Plans for Noise

Annex F Event and Action Plan for Noise

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

Annex G

Summary of Implementation Status

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Cultur	al Herita	ge			
S3.9.1	S3.2.6	Subject to the outcome of the archaeological investigation, if archaeological deposits are identified to be impacted by the proposed development, appropriate mitigation measures will be recommended and agreed with AMO.	In accordance with the recommendations in the Archaeological Action Plan (AAP) issued on 21 Dec 11 and approved on 30 Dec 11 by AMO	During detailed design and construction	 Recommendations under the AAP: Preservation by Record (PBR) at Parade Ground has been completed in this reporting period.
\$3.9.2	S3.3.1	<u>Vibration Monitoring</u> A baseline condition survey and baseline vibration impact will be conducted by a specialist for the approval of AMO and Buildings Department prior to commencement of the construction works to define the vibration control limits and recommend a vibration monitoring proposal for the concerned historic buildings and structures in and outside CPS for AMO's prior approval before commencement of the construction works.	Historic buildings and structures in CPS, the granite walls at Old Bailey Street and the proposed Grade 3 historic building (No. 20 Hollywood Road)	During detailed design and construction	\checkmark
\$3.9.2	S3.3.3	<u>Compliance of the Approved Measures and Auditing</u> Staff training by an experience building conservation expert or relevant competent person(s) in the environmental team of the project should be provided to the on-site staffs, contractors, sub-contractors and workers of the project before commencement of works to ensure their full understanding of the approved protection schedule, restoration proposal and work methodologies related to cultural heritage, and their respective responsibilities in the implementation of the environmental protection measures. Regular site audit for cultural heritage should be carried out in the construction phase by an experience building conservation expert in the environmental team ("the Heritage Checker") to investigate the site practice of the contractors and workers and their compliance of the approved work methodologies with respect of conservation works, mitigations for cultural heritage and any related works. A detailed	Whole site	Prior to and during construction	

Annex G Implementation Schedule for Environmental Protection Measures (1 May to 31 May 2013)

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		proposal of the regular audit such as methodology (e.g. performance and monitoring indicators, control tools, frequency of the audit, etc.) and the conservation professionals to be engaged should be agreed with AMO prior to work commencement. The Heritage Checker shall also attend the regular site meetings with AMO and report the compliance and effectiveness of the mitigation measures for cultural heritage.			
53.9.3	S3.3.4	<u>Archival Recording</u> An archival recording should be conducted to provide a detailed reference for the update of the Conservation Management Plan and inventory of historical features of the monuments, the preparation of as- built drawings showing the condition of the historic buildings and structures after the completion of the construction works. These archival records will be a reference source for future maintenance of the character defining elements, conservation of the monuments, interpretation and conservation education of the Site. The archival recording shall include but not limit to the video and photographic recording on the detailed process of the repair trials for different kinds of historical features, conservation works of character defining elements and historic fabrics of the monuments, and a written records of any new changes to the detailed design made in the construction phase illustrate with photos and drawings. A full set of the archives records (including both hard and soft copies) should be submitted to the AMO for approval after the work completion for record purpose. Any new findings related to the conservation of built heritage in the Site identified during the detailed design stage and construction phases shall be properly recorded in details for notification to the AMO and update of the Conservation Management Plan.	Whole Site	During detailed design, construction and prior to operation	N/A – Archival recording will be conducted at later stage.
S3.7.3	-	<u>General Construction Methods</u> Prior to the commencement of the modification/refurbishment works at an existing building or structure (e.g. masonry walls near the Old Bailey Wing), a site survey will be carried out by the design team, and all building dimensions and levels of the building/structure shown will be	Whole site	During construction	7

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
53.7.1 & 3.7.2	-	checked and confirmed by the contractor. Non-percussive piling methods will be adopted for the construction of the foundation for the new buildings. Protective and precaution measures to the existing buildings and structure adjacent to the work area (including the proposed Grade 3 historic building (No. 20 Hollywood road) and the granite boundary walls between the Ablutions Block of the police station (building no. 08) and the General Office of the prison area (building no. 18) which is adjacent to the new construction of the Old Bailey Wing and for an old granite walls at Old Bailey Street within 15m from the new construction) shall be provided to avoid damage to the existing features and to safeguard the structural integrity during the course of construction. Small scale handheld pneumatic tools with minimal vibration impact to the existing buildings/ structures are selected so as to have a better logistic and handling at the existing buildings and structures, which usually have only narrow working areas. In cases of the local demolition of structural elements, demountable platforms will be erected to temporarily support the affected area and divert the loading from above to avoid instability and create excessive cracking and settlement of the building/structure. Implementation and update of the Conservation Management Plan (CMP). Any new findings related to the conservation of the built heritage in the site identified during the detailed design and construction stage shall be properly recorded in details for the notification to the AMO and update in the CMP. After the construction, a cartographic and photographic recording on the restored historic buildings, historic features and the site shall be conducted and the following records shall be included into the CMP as appendices for updating and record purpose: • one set of measured drawings and photographic records showing the as-built condition of historic buildings and structures; and • an updated inventory list of the historic features together with the cr	Whole site	During detailed design, construction, post- construction and operation	√ - CMP was implemented during the reporting month. There were no updates for the CMP.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Landsca	ipe & Visi	ıal			
S4.7.27	-	In-situ Tree Protection - Cordon Zone (CZ)	Whole site	During construction	- Part of the cordon zone of Tree-5 has been altered to a worker storage room.
		Cordon off each tree along its drip line (below the crown) with a chain- link fencing of 2.5 m height with padlocked gate, allowing limited access to area only to authorized persons. The base of the perimeter fence will be sealed up to 30 cm height to ensure that no construction drainage water will enter. If grouting is to be conducted less than 5 m from the edge of the CZ, a waterproof membrane will be installed below the ground to a depth of 1.5 m on the outer edge of the CZ to prevent the subsurface lateral movement of contaminated construction			
S4.7.2	-	wastewater from intruding the soil inside the CZ. In-situ Tree Protection - Advanced & Phased Root Pruning	Whole site	During construction	N/A – no root pruning has been conducted yet
		All edges of the CZ that will be affected by excavation will undergo root pruning by a trained arborist or horticulturist, in advance of the earth work. The entire affected length of the CZ, plus 3 m additional length at both ends, shall be designated as the root pruning segment (RPS). The require trench will be opened manually in the RPS, be 1.5 m deep and 1 m wide, and closed on the same day after pruning with a good soil mix. All roots with a diameter >20 mm encountered in the course of trench opening shall be cut flushed with the inner wall of the trench. If the RPS exceeds one-quarter of the CZ circumference, the root pruning should be conducted in two stages. Each phase will tackle half of the RPS length. After the first phase, the tree will be allowed to recuperate for not less than four months before the second phase root pruning is conducted. The RPS shall be protected by sheet piles along the outer edge. The rig that installs the piles and the associated operations shall not intrude into the CZ or injure the protected tree.			
S4.7.2	-	In-situ Tree Protection - Foliage cleansing system	Whole site	During construction	\checkmark
		A sprinkler cleansing system will be installed either in the crown of the tree or at a suitable location on an adjacent building to provide the			

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		means to wash the foliage of the accumulated dust when necessary,			
		particularly in the dry season.			
S4.7.2	S4	In-situ Tree Protection - Monthly inspection	Whole site	During construction	\checkmark
		Monthly inspection of affected trees by an experienced and appropriately trained arborist or horticulturist using Form 1 – Tree Group Inspection Form and Form 2 – Tree Risk Assessment Form developed by Development Bureau (<i>http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf</i>) or a form designed by a tree expert and approved by Tree Management Office. All irregularities that deviate from the recommended tree protection measures, or could impose deleterious impacts on the protected trees, must be reported to the authorized person or the tree expert within two days.			
S4.7.2	-	<u>Light Control</u> Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs.	Whole site	During construction and operation	\checkmark
S4.7.2	S4	<u>Compensatory Tree Planting</u> A new planting site has been identified for compensatory tree planting in the Parade Ground. The planting is to compensate for felling of T10. The existing tree site will be enlarged to become a wide tree strip to accommodate at least six trees. The entire strip of land that accommodates T1 to T4 should be revamped to improve the soil condition for future tree growth. The new tree strip should be 4 m wide and covered by porous unit pavers to permit the entry of rain and irrigation water and air exchange between the soil and the atmosphere. The unit pavers should be supported by small columns to create a vault-like structure so as to avoid compaction of the underlying soil due to pedestrian trampling. The unit pavers will be movable to provide access to the soil underneath so that fertilizers and conditioners could be added on a	At identified compensatory tree planting location at the Parade Ground	During detailed design and construction	N/A – Compensatory Tree Planting will be conducted at later stage.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		regular basis. The air conditioner unit currently located near the proposed planting site should also be removed. This new tree planting site should also be provided with proper irrigation.			
		Pursuant to the "Environment, Transport and Works Bureau Technical Circular (Works) No. 3/2006 Tree Preservation", the compensation ratio should preferably be 1:1 according to trunk girth. T10 has a DBH of 20 cm (<i>Table 4.3</i>), and it is proposed that six trees of heavy standard size be planted, each with a DBH of around 10 cm and root balls of not less than 0.75 m diameter and 0.75 m depth,. Since the aggregate DBH of the new trees would be 60 cm, the rate of compensation is equivalent to three times the DBH of T10, far beyond the requirements			
		The six replacement trees should be planted in the new tree strip in two staggered rows, maximising distance between each tree to avoid mutual interference in the future. It is recommended that the species selected should have a small final dimension of less than 10 m height given the proximity to built structures such as the retaining wall and buildings. Two each of the outstanding and related flowering tree species connected to local natural history are suggested::			
		 Bauhinia 'Blakeana' a native evergreen species with deep mauve flowers and an exceptionally long flowering period from late autumn to early spring. 			
		 Bauhinia purpure, a native evergreen with lighter purple flowers from late autumn to early winter. 			
		 Bauhinia variegata, an exotic deciduous species, with pale pinkish flowers in spring to early summer often when the tree has little or no leaves. 			
S4.7.2	S4	<i>Vertical Greening</i> Within the limitations of the conservation of the CPS character,	Inner Southern Wall	During detailed design and construction	N/A – No vertical greening was conducted during the reporting month.
		greening of vertical structures should be provided where possible. As such it is recommended that the inner southern wall of the Site be planted as a green wall. The plantings should be inserted in between each of the large protruding piers and an offset be made from both the			

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		top and bottom edge so that old and new are equally visible. An independent frame should be strategically positioned in order to ensure minimal disturbance to the original wall, and provide the main structural support and planting surface for the green wall. The frame on to which the new green will be planted should contain its own irrigation system so that moisture for the plants will remain mainly on the planting surface and not the exiting wall behind. The planting chosen should be appropriate to the Hong Kong climate, requiring relatively little maintenance to sustain the quality of both plants and wall.			
S4.7.2	-	<i>New Custom Paving</i> New, Patterned, High Quality, Concrete Custom Pavers should replace most of the existing paving in the open spaces.	Whole site	During detailed design and construction	N/A – No custom paving was conducted during the reporting month.
S4.7.2	S4	<u>In-situ Tree Protection - Quarterly inspection</u> Quarterly Inspection of affected and newly planted trees by an experienced and appropriately trained arborist or horticulturist using Form 1 – Tree Group Inspection Form and Form 2 – Tree Risk Assessment Form developed by Development Bureau (http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf) or a form designed by a tree expert and approved by Tree Management Office for a period of 12 months after construction.	Whole site	During post construction and operation	N/A – The quarterly inspection will be conducted at later stage.
Noise	-				
<i>S5.9</i>	-	 The following site practices should be followed during the construction of the Project: Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase; Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase; Mobile plant, if any, will be sited as far away from NSRs as possible; 	Whole Site	During construction	\checkmark

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		 Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum; Plant known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities. 			
<i>S</i> 5.9	-	Noise insulating sheet would be adopted for certain PME (eg drill rig, excavator for demolition of existing structures, etc). The noise insulating sheet should be deployed such that there would be no opening or gaps on the joints.	Whole Site	During √ construction	
<i>S5.9</i>	-	Use temporary noise barriers to mitigate the noise impact arising from the construction works, particularly for low-rise NSRs. Movable noise barriers of 3 m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater than its height. The noise barrier material should have a superficial surface density of at least 7 kg m ⁻² and have no openings or gaps.	Whole Site	During √ construction	
<i>S5.9</i>	-	Use quiet PME as far as practicable to mitigate the construction noise impact.	Whole Site	During √ construction	
<i>S5.9</i>	-	Scheduling of construction activities with identified grouping of PMEs.	Whole Site	During √ construction	
S5.11	S5	Weekly noise monitoring will be undertaken at the representative NSRs N2 Ho Fook Building and N5 Chancery House. Monthly site audits will be conducted to ensure that the recommended mitigation measures are properly implemented during the construction stage.	Whole Site	During √ construction	
Air Qu	ality				
S6.8.1	-	Dust control measures stipulated in the <i>Air Pollution Control</i> (<i>Construction Dust</i>) <i>Regulation</i> will be implemented during the construction phase to control the potential fugitive dust emissions.	Whole Site	During √ construction	

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S6.8.1	-	In particular: Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets; placed in an area sheltered on the top and three sides; or sprayed with water to maintain the entire surface wet at all the time.	Whole Site	During construction	\checkmark
S6.8.1	-	Impervious sheet will be provided for skip hoist for material transport.	Whole Site	During construction	\checkmark
S6.8.1	-	Vehicle washing facilities will be provided at the designated vehicle exit points.	Whole Site	During construction	\checkmark
S6.8.1	-	Every vehicle will be washed to remove any dusty materials from its chassis and wheels immediately before leaving the worksite.	Whole Site	During construction	\checkmark
S6.8.1	-	Road sections between vehicle-wash areas and vehicular entrances will be paved.	Whole Site	During construction	\checkmark
S6.8.1	-	The load carried by the trucks will be covered entirely to ensure no dust emission from the vehicles.	Whole Site	During construction	\checkmark
S6.8.1	-	Hoarding of not less than 2.4m high from ground level will be provided along the Project Site boundary adjoining a road where the new buildings (Old Bailey Wing and Arbuthnot Wing) will be constructed.	Whole Site	During construction	\checkmark
S6.8.1	-	Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.	Whole Site	During construction	\checkmark
S6.8.1	-	An effective dust screen will be provided to enclose scaffolding, if required, from the ground floor level of building for construction of superstructure of the new buildings.	Whole Site	During construction	\checkmark
S6.8.1	-	Impervious dust screen or sheeting will be implemented for demolition of structures and renovation of outer surfaces of structures that abuts or fronts open area accessible to the public to no less than 1m higher than the highest level of the structure being demolished.	Whole Site	During construction	\checkmark
S6.8.1	-	The area at which demolition work takes place will be sprayed with water or dust suppression chemical immediately prior to, during and immediately after the demolition activity.	Area for Demolition Work	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status				
S6.8.1	-	ULSD will be used for all construction plant on-site.	Whole Site	During construction	\checkmark				
S6.8.1	-	The engine of the construction equipment or trucks during idling will be switched off.	Whole Site	During construction	\checkmark				
S6.8.1	-	Site practices such as regular maintenance and checking of construction equipment deployed on-site will be conducted to avoid any black smoke emissions and to minimise gaseous emissions.	Whole Site	During construction	N/A – Not observed.				
S6.10	S3.2	Monthly environmental site audits to ensure that appropriate dust control measures are properly implemented and good construction site practices are adopted throughout the construction period.	Whole Site	During construction	\checkmark				
Water (Water Quality								
S7.6	-	Channels, earth bunds or sand bag barriers will be provided on site to direct stormwater to silt removal facilities. The design of silt removal facilities will make reference to the guidelines in <i>Appendix A1</i> of <i>ProPECC PN 1/94</i> . All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	Whole Site	During construction	V				
S7.6	-	All drainage facilities and erosion and sediment control structures will be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit will be removed regularly and disposed of.	Whole Site	During construction	N/A – Not observed.				
S7.6	-	Measures will be taken to reduce the ingress of stormwater into excavation areas. If the excavation of the concrete foundation is to be carried out in wet season, they will be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations will be discharged into stormwater drains via silt removal facilities.	Whole Site	During construction	N/A – Not observed.				
S7.6	-	Open stockpiles of excavated and demolition materials will be covered with tarpaulin or similar fabric during rainstorms. Measures will be taken to prevent the washing away of residues, chemicals or debris into any drainage system.	Whole Site	During construction	\checkmark				

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	Manholes (including newly constructed ones) will always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Precautions will be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2 of <i>ProPECC PN 1/94</i> . Particular attention will be paid to the control of silty surface runoff during storm events.	Whole Site	During construction	N/A – Not observed.
S7.6	-	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge will be adequately designed for the controlled release of stormwater flows. All sediment traps will be regularly cleaned and maintained. The temporary diverted drainage will be reinstated to the original condition when the construction work has finished or the temporary diversion is no longer required.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Vehicle and plant servicing areas, vehicle washing bays and lubrication bays will, as far as possible, be located within roofed areas. The drainage in these covered areas will be connected to foul sewers via a petrol interceptor.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Oil leakage or spillage will be contained and cleaned up immediately. Waste oil will be collected and stored for recycling or disposal.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Waste streams classifiable as chemical wastes will be properly stored, collected and treated.	Whole Site	During construction	\checkmark
S7.6	-	All fuel tanks and chemical storage areas will be provided with locks and be sited on paved areas.	Whole Site	During construction	\checkmark
S7.6	-	The storage areas will be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled oil, fuel and chemicals from reaching the receiving waters.	Whole Site	During construction	\checkmark
S7.6	-	The Contractors will prepare guidelines and procedures for immediate clean-up actions following any spillages of oil, fuel or chemicals.	Whole Site	During construction	\checkmark

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	Surface runoff from bunded areas will pass through oil/grease traps prior to discharge to the stormwater system	Whole Site	During construction	N/A – Not observed.
S7.6	-	The stormwater discharge from the site will be monitored as part of the routine monitoring under the WPCO licence, if applicable.	Whole Site	During construction	N/A – Not observed.
S7.6	-	The existing toilet facilities of the CPS will be available to the construction workforce. The sewage will be discharged to the public sewer.	Whole Site	During construction	\checkmark
S7.8	S5.2	Monthly site audits of the works areas will be carried out during the construction phase to monitor the environmental performance of the Project and to enable prompt actions to rectify any malpractice which may give rise to water pollution problem.	Whole Site	During construction	N
Waste I	Manageme	nt	1		
S8.5	S6.3.1 & Table 6.1	<u>General</u> The Contractor shall apply for and obtain all the necessary waste disposal permits or licences are obtained prior to the commencement of the construction works.	Whole Site	During construction	\checkmark
S8.5	-	<u>Management of Waste Disposal</u> The construction contractor will open a billing account with the EPD. Every construction waste or public fill load to be transferred to the Government waste disposal facilities such as public fill reception facilities, sorting facilities, landfills will require a valid "chit" which contains the information of the account holder to facilitate waste transaction recording and billing to the waste producer.	Whole Site	During construction	√
S8.5	S6.2	A trip-ticket system will also be established to monitor the disposal of construction waste at landfill and to control fly-tipping. The trip-ticket system will be included as one of the contractual requirements and implemented by the contractor.	Whole Site	During construction	\checkmark

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S8.5	S6 & Table 6.1	A recording system for the amount of wastes generated/recycled and disposed of will be established during the construction phase.	Whole Site	During construction	\checkmark
S8.5	S6.3	<u>Reduction of Construction Waste Generation</u> C&D material will be segregated on-site into public fill and construction waste and stored in different containers or skips to facilitate reuse of the public fill and proper disposal of the construction waste. Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	Whole Site	During construction	\checkmark
S8.5	S6	<u>Chemical Waste</u> The contractor will register as a chemical waste producer with the EPD.	Whole Site	During construction and operation	\checkmark
S8.5	S6	 Containers used for storage of chemical waste shall: 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 L unless the specifications have been approved by the EPD; and Display a label in English and Chinese in accordance with instructions prescribed in <i>Schedule 2</i> of the <i>Regulations</i>. 	Whole Site	During construction and operation	\checkmark
S8.5	S6	 Storage areas for chemical waste shall: Be clearly labelled and used solely for the storage of chemical waste; Be enclosed on at least 3 sides; Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest; Have adequate ventilation; Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and Be arranged so that incompatible materials are appropriately separated. 	Whole Site	During construction and operation	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S8.5	S6	A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility.	Chemical Waste Treatment Centre at Tsing Yi	During construction and operation	\checkmark
S8.5	S6 & Table 6.1	<u>General Refuse</u> General refuse will be stored in enclosed bins separately from construction and chemical wastes. The general refuse will be delivered to the transfer station, separately from construction and chemical wastes, on a daily basis to reduce odour, pest and litter impacts.	Whole site	During construction	\checkmark
S8.5	S6	Recycling bins will be provided at strategic locations to facilitate recovery of aluminium can and waste paper from the Site. Materials recovered will be sold for recycling.	Whole site	During construction and operation	\checkmark
S8.5	S6	<u>Staff Training</u> At the commencement of the construction works, training will be provided to workers on the concepts of site cleanliness and on appropriate waste management procedures, including waste reduction, reuse and recycling.	Whole site	Commence-ment of construction	\checkmark
S8.7	S6.1 & 6.3	Monthly audits of the waste management practices will be carried out during the construction phases to determine if wastes are being managed in accordance with the recommended good site practices. The audits will examine all aspects of waste management including waste generation, storage, recycling, transport and disposal.	Whole site	During construction	√

Remark:

 $\sqrt{}$ Compliance of Mitigation Measures

<> Compliance of Mitigation but need improvement

x Non-compliance of Mitigation Measures

▲ Non-compliance of Mitigation Measures but rectified by Gammon Construction Ltd

Δ Deficiency of Mitigation Measures but rectified by Gammon Construction Ltd

N/A Not Applicable in Reporting Period

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Cultur	al Herita	ge			
S3.9.1	S3.2.6	Subject to the outcome of the archaeological investigation, if archaeological deposits are identified to be impacted by the proposed development, appropriate mitigation measures will be recommended and agreed with AMO.	In accordance with the recommendations in the Archaeological Action Plan (AAP) issued on 21 Dec 11 and approved on 30 Dec 11 by AMO	During detailed design and construction	No field work in the reporting month.
S3.9.2	S3.3.1	<u>Vibration Monitoring</u> A baseline condition survey and baseline vibration impact will be conducted by a specialist for the approval of AMO and Buildings Department prior to commencement of the construction works to define the vibration control limits and recommend a vibration monitoring proposal for the concerned historic buildings and structures in and outside CPS for AMO's prior approval before commencement of the construction works.	Historic buildings and structures in CPS, the granite walls at Old Bailey Street and the proposed Grade 3 historic building (No. 20 Hollywood Road)	During detailed design and construction	V
53.9.2	S3.3.3	<u>Compliance of the Approved Measures and Auditing</u> Staff training by an experience building conservation expert or relevant competent person(s) in the environmental team of the project should be provided to the on-site staffs, contractors, sub-contractors and workers of the project before commencement of works to ensure their full understanding of the approved protection schedule, restoration proposal and work methodologies related to cultural heritage, and their respective responsibilities in the implementation of the environmental protection measures. Regular site audit for cultural heritage should be carried out in the construction phase by an experience building conservation expert in the environmental team ("the Heritage Checker") to investigate the site practice of the contractors and workers and their compliance of the approved work methodologies with respect of conservation works, mitigations for cultural heritage and any related works. A detailed	Whole site	Prior to and during construction	√

Annex G Implementation Schedule for Environmental Protection Measures (1 June to 30 June 2013)

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		proposal of the regular audit such as methodology (e.g. performance and monitoring indicators, control tools, frequency of the audit, etc.) and the conservation professionals to be engaged should be agreed with AMO prior to work commencement. The Heritage Checker shall also attend the regular site meetings with			
		AMO and report the compliance and effectiveness of the mitigation measures for cultural heritage.			
S3.9.3	S3.3.4	<u>Archival Recording</u> An archival recording should be conducted to provide a detailed reference for the update of the Conservation Management Plan and inventory of historical features of the monuments, the preparation of as- built drawings showing the condition of the historic buildings and structures after the completion of the construction works. These archival records will be a reference source for future maintenance of the character defining elements, conservation of the monuments, interpretation and conservation education of the Site. The archival recording shall include but not limit to the video and photographic recording on the detailed process of the repair trials for different kinds of historical features, conservation works of character defining elements and historic fabrics of the monuments, and a written records of any new changes to the detailed design made in the construction phase illustrate with photos and drawings. A full set of the archives records (including both hard and soft copies) should be submitted to the AMO for approval after the work completion for record purpose. Any new findings related to the conservation of built heritage in the Site identified during the detailed design stage and construction phases shall be properly recorded in details for notification to the AMO and update of the Conservation Management Plan.	Whole Site	During detailed design, construction and prior to operation	N/A – Archival recording will be conducted at later stage.
S3.7.3	-	<u>General Construction Methods</u> Prior to the commencement of the modification/refurbishment works at an existing building or structure (e.g. masonry walls near the Old Bailey	Whole site	During construction	\checkmark
		Wing), a site survey will be carried out by the design team, and all building dimensions and levels of the building/structure shown will be			

EIA EM&A Ref. Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S3.7.1 - & 3.7.2	 checked and confirmed by the contractor. Non-percussive piling methods will be adopted for the construction of the foundation for the new buildings. Protective and precaution measures to the existing buildings and structure adjacent to the work area (including the proposed Grade 3 historic building (No. 20 Hollywood road) and the granite boundary walls between the Ablutions Block of the police station (building no. 08) and the General Office of the prison area (building no. 18) which is adjacent to the new construction of the Old Bailey Wing and for an old granite walls at Old Bailey Street within 15m from the new construction) shall be provided to avoid damage to the existing features and to safeguard the structural integrity during the course of construction. Small scale handheld pneumatic tools with minimal vibration impact to the existing buildings / structures are selected so as to have a better logistic and handling at the existing buildings and structures, which usually have only narrow working areas. In cases of the local demolition of structural elements, demountable platforms will be erected to temporarily support the affected area and divert the loading from above to avoid instability and create excessive cracking and settlement of the building/structure. Implementation and update of the Conservation Management Plan (CMP). Any new findings related to the conservation of the built heritage in the site identified during the detailed design and construction, a cartographic and photographic recording on the restored historic buildings, historic features and the site shall be conducted and the following records shall be included into the CMP as appendices for updating and record purpose: one set of measured drawings and photographic records showing the as-built condition of historic buildings and structures; and an updated inventory list of the historic features together with the cross referenced location plans and photo records. 	Whole site	During detailed design, construction, post- construction and operation	√ - CMP was implemented during the reporting month. There were no updates for the CMP.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Landsca	ipe & Visi	ıal			1
S4.7.27	-	<u>In-situ Tree Protection - Cordon Zone (CZ)</u> Cordon off each tree along its drip line (below the crown) with a chain- link fencing of 2.5 m height with padlocked gate, allowing limited access to area only to authorized persons. The base of the perimeter fence will be sealed up to 30 cm height to ensure that no construction drainage water will enter. If grouting is to be conducted less than 5 m from the edge of the CZ, a waterproof membrane will be installed below the ground to a depth of 1.5 m on the outer edge of the CZ to prevent the subsurface lateral movement of contaminated construction wastewater from intruding the soil inside the CZ.	Whole site	During construction	\checkmark - Part of the cordon zone of Tree-5 has been used as a worker storage room. The Contractor was recommended to pay utmost attention to potential land pollution at the worker storage room at all times. Tree-11 has been wrapped using hessian cloth so that the tree is kept a reasonable distance from the nearby buildings (see attached at the end of <i>Annex</i> <i>G</i>).
S4.7.2	-	<u>In-situ Tree Protection - Advanced & Phased Root Pruning</u> All edges of the CZ that will be affected by excavation will undergo root pruning by a trained arborist or horticulturist, in advance of the earth work. The entire affected length of the CZ, plus 3 m additional length at both ends, shall be designated as the root pruning segment (RPS). The require trench will be opened manually in the RPS, be 1.5 m deep and 1 m wide, and closed on the same day after pruning with a good soil mix. All roots with a diameter >20 mm encountered in the course of trench opening shall be cut flushed with the inner wall of the trench. If the RPS exceeds one-quarter of the CZ circumference, the root pruning should be conducted in two stages. Each phase will tackle half of the RPS length. After the first phase, the tree will be allowed to recuperate for not less than four months before the second phase root pruning is conducted. The RPS shall be protected by sheet piles along the outer edge. The rig that installs the piles and the associated operations shall not intrude into the CZ or injure the protected tree.	Whole site	During construction	N/A – no root pruning has been conducted yet
S4.7.2	-	<u>In-situ Tree Protection - Foliage cleansing system</u> A sprinkler cleansing system will be installed either in the crown of the tree or at a suitable location on an adjacent building to provide the	Whole site	During construction	\checkmark

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		means to wash the foliage of the accumulated dust when necessary,			
		particularly in the dry season.			
S4.7.2	S4	In-situ Tree Protection - Monthly inspection	Whole site	During construction	\checkmark
		Monthly inspection of affected trees by an experienced and appropriately trained arborist or horticulturist using Form 1 – Tree Group Inspection Form and Form 2 – Tree Risk Assessment Form developed by Development Bureau (<i>http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf</i>) or a form designed by a tree expert and approved by Tree Management Office. All irregularities that deviate from the recommended tree protection measures, or could impose deleterious impacts on the protected trees, must be reported to the authorized person or the tree expert within two days.			
S4.7.2	-	<u>Light Control</u> Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs.	Whole site	During construction and operation	\checkmark
S4.7.2	S4	<u>Compensatory Tree Planting</u> A new planting site has been identified for compensatory tree planting in the Parade Ground. The planting is to compensate for felling of T10. The existing tree site will be enlarged to become a wide tree strip to accommodate at least six trees. The entire strip of land that accommodates T1 to T4 should be revamped to improve the soil condition for future tree growth. The new tree strip should be 4 m wide and covered by porous unit pavers to permit the entry of rain and irrigation water and air exchange between the soil and the atmosphere. The unit pavers should be supported by small columns to create a vault-like structure so as to avoid compaction of the underlying soil due to pedestrian trampling. The unit pavers will be movable to provide access to the soil underneath so that fertilizers and conditioners could be added on a	At identified compensatory tree planting location at the Parade Ground	During detailed design and construction	N/A – Compensatory Tree Planting will be conducted at later stage.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		regular basis. The air conditioner unit currently located near the proposed planting site should also be removed. This new tree planting site should also be provided with proper irrigation.			
		Pursuant to the "Environment, Transport and Works Bureau Technical Circular (Works) No. 3/2006 Tree Preservation", the compensation ratio should preferably be 1:1 according to trunk girth. T10 has a DBH of 20 cm (<i>Table 4.3</i>), and it is proposed that six trees of heavy standard size be planted, each with a DBH of around 10 cm and root balls of not less than 0.75 m diameter and 0.75 m depth,. Since the aggregate DBH of the new trees would be 60 cm, the rate of compensation is equivalent to three times the DBH of T10, far beyond the requirements			
		The six replacement trees should be planted in the new tree strip in two staggered rows, maximising distance between each tree to avoid mutual interference in the future. It is recommended that the species selected should have a small final dimension of less than 10 m height given the proximity to built structures such as the retaining wall and buildings. Two each of the outstanding and related flowering tree species connected to local natural history are suggested::			
		 Bauhinia 'Blakeana' a native evergreen species with deep mauve flowers and an exceptionally long flowering period from late autumn to early spring. 			
		 Bauhinia purpure, a native evergreen with lighter purple flowers from late autumn to early winter. 			
		 Bauhinia variegata, an exotic deciduous species, with pale pinkish flowers in spring to early summer often when the tree has little or no leaves. 			
S4.7.2	S4	<i>Vertical Greening</i> Within the limitations of the conservation of the CPS character,	Inner Southern Wall	During detailed design and construction	N/A – No vertical greening was conducted during the reporting month.
		greening of vertical structures should be provided where possible. As such it is recommended that the inner southern wall of the Site be planted as a green wall. The plantings should be inserted in between each of the large protruding piers and an offset be made from both the			

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		top and bottom edge so that old and new are equally visible. An independent frame should be strategically positioned in order to ensure minimal disturbance to the original wall, and provide the main structural support and planting surface for the green wall. The frame on to which the new green will be planted should contain its own irrigation system so that moisture for the plants will remain mainly on the planting surface and not the exiting wall behind. The planting chosen should be appropriate to the Hong Kong climate, requiring relatively little maintenance to sustain the quality of both plants and wall.			
S4.7.2	-	<i>New Custom Paving</i> New, Patterned, High Quality, Concrete Custom Pavers should replace most of the existing paving in the open spaces.	Whole site	During detailed design and construction	N/A – No custom paving was conducted during the reporting month.
S4.7.2	S4	<u>In-situ Tree Protection - Quarterly inspection</u> Quarterly Inspection of affected and newly planted trees by an experienced and appropriately trained arborist or horticulturist using Form 1 – Tree Group Inspection Form and Form 2 – Tree Risk Assessment Form developed by Development Bureau (http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf) or a form designed by a tree expert and approved by Tree Management Office for a period of 12 months after construction.	Whole site	During post construction and operation	N/A – The quarterly inspection will be conducted at later stage.
Noise	-		•		
<i>S</i> 5.9	-	 The following site practices should be followed during the construction of the Project: Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase; Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase; Mobile plant, if any, will be sited as far away from NSRs as possible; 	Whole Site	During construction	\checkmark

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		 Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum; Plant known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities. 			
\$5.9	-	Noise insulating sheet would be adopted for certain PME (eg drill rig, excavator for demolition of existing structures, etc). The noise insulating sheet should be deployed such that there would be no opening or gaps on the joints.	Whole Site	During √ construction	
<i>S5.9</i>	-	Use temporary noise barriers to mitigate the noise impact arising from the construction works, particularly for low-rise NSRs. Movable noise barriers of 3 m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater than its height. The noise barrier material should have a superficial surface density of at least 7 kg m ⁻² and have no openings or gaps.	Whole Site	During √ construction	
<i>S5.9</i>	-	Use quiet PME as far as practicable to mitigate the construction noise impact.	Whole Site	During √ construction	
<i>S5.9</i>	-	Scheduling of construction activities with identified grouping of PMEs.	Whole Site	During √ construction	
S5.11	S5	Weekly noise monitoring will be undertaken at the representative NSRs N2 Ho Fook Building and N5 Chancery House. Monthly site audits will be conducted to ensure that the recommended mitigation measures are properly implemented during the construction stage.	Whole Site	During √ construction	
Air Qu	ality				
S6.8.1	-	Dust control measures stipulated in the <i>Air Pollution Control</i> (<i>Construction Dust</i>) <i>Regulation</i> will be implemented during the construction phase to control the potential fugitive dust emissions.	Whole Site	During √ construction	

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S6.8.1	-	In particular: Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets; placed in an area sheltered on the top and three sides; or sprayed with water to maintain the entire surface wet at all the time.	Whole Site	During construction	√
S6.8.1	-	Impervious sheet will be provided for skip hoist for material transport.	Whole Site	During construction	\checkmark
S6.8.1	-	Vehicle washing facilities will be provided at the designated vehicle exit points.	Whole Site	During construction	\checkmark
S6.8.1	-	Every vehicle will be washed to remove any dusty materials from its chassis and wheels immediately before leaving the worksite.	Whole Site	During construction	\checkmark
S6.8.1	-	Road sections between vehicle-wash areas and vehicular entrances will be paved.	Whole Site	During construction	\checkmark
S6.8.1	-	The load carried by the trucks will be covered entirely to ensure no dust emission from the vehicles.	Whole Site	During construction	\checkmark
S6.8.1	-	Hoarding of not less than 2.4m high from ground level will be provided along the Project Site boundary adjoining a road where the new buildings (Old Bailey Wing and Arbuthnot Wing) will be constructed.	Whole Site	During construction	\checkmark
S6.8.1	-	Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.	Whole Site	During construction	\checkmark
S6.8.1	-	An effective dust screen will be provided to enclose scaffolding, if required, from the ground floor level of building for construction of superstructure of the new buildings.	Whole Site	During construction	\checkmark
S6.8.1	-	Impervious dust screen or sheeting will be implemented for demolition of structures and renovation of outer surfaces of structures that abuts or fronts open area accessible to the public to no less than 1m higher than the highest level of the structure being demolished.	Whole Site	During construction	\checkmark
S6.8.1	-	The area at which demolition work takes place will be sprayed with water or dust suppression chemical immediately prior to, during and immediately after the demolition activity.	Area for Demolition Work	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S6.8.1	-	ULSD will be used for all construction plant on-site.	Whole Site	During construction	\checkmark
S6.8.1	-	The engine of the construction equipment or trucks during idling will be switched off.	Whole Site	During construction	\checkmark
S6.8.1	-	Site practices such as regular maintenance and checking of construction equipment deployed on-site will be conducted to avoid any black smoke emissions and to minimise gaseous emissions.	Whole Site	During construction	N/A – Not observed.
S6.10	S3.2	Monthly environmental site audits to ensure that appropriate dust control measures are properly implemented and good construction site practices are adopted throughout the construction period.	Whole Site	During construction	\checkmark
Water (Quality			1	
S7.6	-	Channels, earth bunds or sand bag barriers will be provided on site to direct stormwater to silt removal facilities. The design of silt removal facilities will make reference to the guidelines in <i>Appendix A1</i> of <i>ProPECC PN 1/94</i> . All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	Whole Site	During construction	\checkmark
S7.6	-	All drainage facilities and erosion and sediment control structures will be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit will be removed regularly and disposed of.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Measures will be taken to reduce the ingress of stormwater into excavation areas. If the excavation of the concrete foundation is to be carried out in wet season, they will be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations will be discharged into stormwater drains via silt removal facilities.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Open stockpiles of excavated and demolition materials will be covered with tarpaulin or similar fabric during rainstorms. Measures will be taken to prevent the washing away of residues, chemicals or debris into any drainage system.	Whole Site	During construction	\checkmark

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	Manholes (including newly constructed ones) will always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Precautions will be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2 of <i>ProPECC PN 1/94</i> . Particular attention will be paid to the control of silty surface runoff during storm events.	Whole Site	During construction	N/A – Not observed.
S7.6	-	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge will be adequately designed for the controlled release of stormwater flows. All sediment traps will be regularly cleaned and maintained. The temporary diverted drainage will be reinstated to the original condition when the construction work has finished or the temporary diversion is no longer required.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Vehicle and plant servicing areas, vehicle washing bays and lubrication bays will, as far as possible, be located within roofed areas. The drainage in these covered areas will be connected to foul sewers via a petrol interceptor.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Oil leakage or spillage will be contained and cleaned up immediately. Waste oil will be collected and stored for recycling or disposal.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Waste streams classifiable as chemical wastes will be properly stored, collected and treated.	Whole Site	During construction	\checkmark
S7.6	-	All fuel tanks and chemical storage areas will be provided with locks and be sited on paved areas.	Whole Site	During construction	\checkmark
S7.6	-	The storage areas will be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled oil, fuel and chemicals from reaching the receiving waters.	Whole Site	During construction	1
S7.6	-	The Contractors will prepare guidelines and procedures for immediate clean-up actions following any spillages of oil, fuel or chemicals.	Whole Site	During construction	\checkmark

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	Surface runoff from bunded areas will pass through oil/grease traps prior to discharge to the stormwater system	Whole Site	During construction	N/A – Not observed.
S7.6	-	The stormwater discharge from the site will be monitored as part of the routine monitoring under the WPCO licence, if applicable.	Whole Site	During construction	N/A – Not observed.
S7.6	-	The existing toilet facilities of the CPS will be available to the construction workforce. The sewage will be discharged to the public sewer.	Whole Site	During construction	\checkmark
S7.8	S5.2	Monthly site audits of the works areas will be carried out during the construction phase to monitor the environmental performance of the Project and to enable prompt actions to rectify any malpractice which may give rise to water pollution problem.	Whole Site	During construction	N
Waste I	Manageme	nt	1		
S8.5	S6.3.1 & Table 6.1	<u>General</u> The Contractor shall apply for and obtain all the necessary waste disposal permits or licences are obtained prior to the commencement of the construction works.	Whole Site	During construction	\checkmark
S8.5	-	<u>Management of Waste Disposal</u> The construction contractor will open a billing account with the EPD. Every construction waste or public fill load to be transferred to the Government waste disposal facilities such as public fill reception facilities, sorting facilities, landfills will require a valid "chit" which contains the information of the account holder to facilitate waste transaction recording and billing to the waste producer.	Whole Site	During construction	√
S8.5	S6.2	A trip-ticket system will also be established to monitor the disposal of construction waste at landfill and to control fly-tipping. The trip-ticket system will be included as one of the contractual requirements and implemented by the contractor.	Whole Site	During construction	\checkmark

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S8.5	S6 & Table 6.1	A recording system for the amount of wastes generated/recycled and disposed of will be established during the construction phase.	Whole Site	During construction	\checkmark
S8.5	S6.3	<u>Reduction of Construction Waste Generation</u> C&D material will be segregated on-site into public fill and construction waste and stored in different containers or skips to facilitate reuse of the public fill and proper disposal of the construction waste. Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	Whole Site	During construction	\checkmark
S8.5	S6	<u>Chemical Waste</u> The contractor will register as a chemical waste producer with the EPD.	Whole Site	During construction and operation	\checkmark
S8.5	S6	 Containers used for storage of chemical waste shall: 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 L unless the specifications have been approved by the EPD; and Display a label in English and Chinese in accordance with instructions prescribed in <i>Schedule 2</i> of the <i>Regulations</i>. 	Whole Site	During construction and operation	\checkmark
S8.5	S6	 Storage areas for chemical waste shall: Be clearly labelled and used solely for the storage of chemical waste; Be enclosed on at least 3 sides; Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest; Have adequate ventilation; Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and Be arranged so that incompatible materials are appropriately separated. 	Whole Site	During construction and operation	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S8.5	S6	A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility.	Chemical Waste Treatment Centre at Tsing Yi	During construction and operation	\checkmark
S8.5	S6 & Table 6.1	<u>General Refuse</u> General refuse will be stored in enclosed bins separately from construction and chemical wastes. The general refuse will be delivered to the transfer station, separately from construction and chemical wastes, on a daily basis to reduce odour, pest and litter impacts.	Whole site	During construction	\checkmark
S8.5	S6	Recycling bins will be provided at strategic locations to facilitate recovery of aluminium can and waste paper from the Site. Materials recovered will be sold for recycling.	Whole site	During construction and operation	\checkmark
S8.5	S6	<u>Staff Training</u> At the commencement of the construction works, training will be provided to workers on the concepts of site cleanliness and on appropriate waste management procedures, including waste reduction, reuse and recycling.	Whole site	Commencement of construction	\checkmark
S8.7	S6.1 & 6.3	Monthly audits of the waste management practices will be carried out during the construction phases to determine if wastes are being managed in accordance with the recommended good site practices. The audits will examine all aspects of waste management including waste generation, storage, recycling, transport and disposal.	Whole site	During construction	√

Remark:

 $\sqrt{}$ Compliance of Mitigation Measures

<> Compliance of Mitigation but need improvement

x Non-compliance of Mitigation Measures

▲ Non-compliance of Mitigation Measures but rectified by Gammon Construction Ltd

Δ Deficiency of Mitigation Measures but rectified by Gammon Construction Ltd

N/A Not Applicable in Reporting Period

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Cultur	al Heritag	ge			
S3.9.1	S3.2.6	Subject to the outcome of the archaeological investigation, if archaeological deposits are identified to be impacted by the proposed development, appropriate mitigation measures will be recommended and agreed with AMO.	In accordance with the recommendations in the Archaeological Action Plan (AAP) issued on 21 Dec 11 and approved on 30 Dec 11 by AMO	During detailed design and construction	No field work in the reporting month.
S3.9.2	S3.3.1	<u>Vibration Monitoring</u> A baseline condition survey and baseline vibration impact will be conducted by a specialist for the approval of AMO and Buildings Department prior to commencement of the construction works to define the vibration control limits and recommend a vibration monitoring proposal for the concerned historic buildings and structures in and outside CPS for AMO's prior approval before commencement of the construction works.	Historic buildings and structures in CPS, the granite walls at Old Bailey Street and the proposed Grade 3 historic building (No. 20 Hollywood Road)	During detailed design and construction	7
S3.9.2	S3.3.3	<u>Compliance of the Approved Measures and Auditing</u> Staff training by an experience building conservation expert or relevant competent person(s) in the environmental team of the project should be provided to the on-site staffs, contractors, sub-contractors and workers of the project before commencement of works to ensure their full understanding of the approved protection schedule, restoration proposal and work methodologies related to cultural heritage, and their respective responsibilities in the implementation of the environmental protection measures. Regular site audit for cultural heritage should be carried out in the construction phase by an experience building conservation expert in the environmental team ("the Heritage Checker") to investigate the site practice of the contractors and workers and their compliance of the approved work methodologies with respect of conservation works, mitigations for cultural heritage and any related works. A detailed	Whole site	Prior to and during construction	

Annex G Implementation Schedule for Environmental Protection Measures (1 July to 31 July 2013)

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		proposal of the regular audit such as methodology (e.g. performance and monitoring indicators, control tools, frequency of the audit, etc.) and the conservation professionals to be engaged should be agreed with AMO prior to work commencement. The Heritage Checker shall also attend the regular site meetings with AMO and report the compliance and effectiveness of the mitigation measures for cultural heritage.			
\$3.9.3	S3.3.4	<u>Archival Recording</u> An archival recording should be conducted to provide a detailed reference for the update of the Conservation Management Plan and inventory of historical features of the monuments, the preparation of as- built drawings showing the condition of the historic buildings and structures after the completion of the construction works. These archival records will be a reference source for future maintenance of the character defining elements, conservation of the monuments, interpretation and conservation education of the Site. The archival recording shall include but not limit to the video and photographic recording on the detailed process of the repair trials for different kinds of historical features, conservation works of character defining elements and historic fabrics of the monuments, and a written records of any new changes to the detailed design made in the construction phase illustrate with photos and drawings. A full set of the archives records (including both hard and soft copies) should be submitted to the AMO for approval after the work completion for record purpose. Any new findings related to the conservation of built heritage in the Site identified during the detailed design stage and construction phases shall be properly recorded in details for notification to the AMO and update of the Conservation Management Plan.	Whole Site	During detailed design, construction and prior to operation	N/A – Archival recording will be conducted at later stage.
S3.7.3	-	<u>General Construction Methods</u> Prior to the commencement of the modification/refurbishment works at an existing building or structure (e.g. masonry walls near the Old Bailey Wing), a site survey will be carried out by the design team, and all building dimensions and levels of the building/structure shown will be	Whole site	During construction	\checkmark

	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S3.7.1 - & 3.7.2		checked and confirmed by the contractor. Non-percussive piling methods will be adopted for the construction of the foundation for the new buildings. Protective and precaution measures to the existing buildings and structure adjacent to the work area (including the proposed Grade 3 historic building (No. 20 Hollywood road) and the granite boundary walls between the Ablutions Block of the police station (building no. 08) and the General Office of the prison area (building no. 18) which is adjacent to the new construction of the Old Bailey Wing and for an old granite walls at Old Bailey Street within 15m from the new construction) shall be provided to avoid damage to the existing features and to safeguard the structural integrity during the course of construction. Small scale handheld pneumatic tools with minimal vibration impact to the existing buildings / structures are selected so as to have a better logistic and handling at the existing buildings and structures, which usually have only narrow working areas. In cases of the local demolition of structural elements, demountable platforms will be erected to temporarily support the affected area and divert the loading from above to avoid instability and create excessive cracking and settlement of the building/structure. Implementation and update of the Conservation Management Plan (CMP). Any new findings related to the conservation of the built heritage in the site identified during the detailed design and construction, a cartographic and photographic recording on the restored historic buildings, historic features and the site shall be conducted and the following records shall be included into the CMP as appendices for updating and record purpose: • one set of measured drawings and photographic records showing the as-built condition of historic buildings and structures; and • an updated inventory list of the historic features together with the cross referenced location plans and photo records. One set of updated CMP shall be submitted to the AMO for approval before	Whole site	During detailed design, construction, post- construction and operation	√- CMP was implemented during the reporting month. There were no updates for the CMP.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Landsca	pe & Visı	ıal	I		
S4.7.27		<u>In-situ Tree Protection - Cordon Zone (CZ)</u> Cordon off each tree along its drip line (below the crown) with a chain- link fencing of 2.5 m height with padlocked gate, allowing limited access to area only to authorized persons. The base of the perimeter fence will be sealed up to 30 cm height to ensure that no construction drainage water will enter. If grouting is to be conducted less than 5 m from the edge of the CZ, a waterproof membrane will be installed	Whole site	During construction	- Part of the cordon zone of Tree-5 has been used as a worker storage room. The Contractor was recommended to pay utmost attention to potential land pollution at the worker storage room at all times.
		below the ground to a depth of 1.5 m on the outer edge of the CZ to prevent the subsurface lateral movement of contaminated construction wastewater from intruding the soil inside the CZ.			
S4.7.2	-	<u>In-situ Tree Protection - Advanced & Phased Root Pruning</u> All edges of the CZ that will be affected by excavation will undergo root pruning by a trained arborist or horticulturist, in advance of the earth work. The entire affected length of the CZ, plus 3 m additional length at both ends, shall be designated as the root pruning segment (RPS). The require trench will be opened manually in the RPS, be 1.5 m deep and 1 m wide, and closed on the same day after pruning with a good soil mix. All roots with a diameter >20 mm encountered in the course of trench opening shall be cut flushed with the inner wall of the trench. If the RPS exceeds one-quarter of the CZ circumference, the root pruning should be conducted in two stages. Each phase will tackle half of the RPS length. After the first phase, the tree will be allowed to recuperate for not less than four months before the second phase root pruning is conducted. The RPS shall be protected by sheet piles along the outer edge. The rig that installs the piles and the associated operations shall not intrude into the CZ or injure the protected tree.	Whole site	During construction	N/A – no root pruning has been conducted yet
S4.7.2	-	<u>In-situ Tree Protection - Foliage cleansing system</u> A sprinkler cleansing system will be installed either in the crown of the tree or at a suitable location on an adjacent building to provide the	Whole site	During construction	\checkmark

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		means to wash the foliage of the accumulated dust when necessary,			
		particularly in the dry season.			
S4.7.2	S4	In-situ Tree Protection - Monthly inspection	Whole site	During construction	\checkmark
		Monthly inspection of affected trees by an experienced and appropriately trained arborist or horticulturist using Form 1 – Tree Group Inspection Form and Form 2 – Tree Risk Assessment Form developed by Development Bureau (<i>http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf</i>) or a form designed by a tree expert and approved by Tree Management Office. All irregularities that deviate from the recommended tree protection measures, or could impose deleterious impacts on the protected trees, must be reported to the authorized person or the tree expert within two days.			
S4.7.2	-	<u>Light Control</u> Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs.	Whole site	During construction and operation	\checkmark
S4.7.2	S4	<u>Compensatory Tree Planting</u> A new planting site has been identified for compensatory tree planting in the Parade Ground. The planting is to compensate for felling of T10. The existing tree site will be enlarged to become a wide tree strip to accommodate at least six trees. The entire strip of land that accommodates T1 to T4 should be revamped to improve the soil condition for future tree growth. The new tree strip should be 4 m wide and covered by porous unit pavers to permit the entry of rain and irrigation water and air exchange between the soil and the atmosphere. The unit pavers should be supported by small columns to create a vault-like structure so as to avoid compaction of the underlying soil due to pedestrian trampling. The unit pavers will be movable to provide access to the soil underneath so that fertilizers and conditioners could be added on a	At identified compensatory tree planting location at the Parade Ground	During detailed design and construction	N/A – Compensatory Tree Planting will be conducted at later stage.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		regular basis. The air conditioner unit currently located near the proposed planting site should also be removed. This new tree planting site should also be provided with proper irrigation.			
		Pursuant to the "Environment, Transport and Works Bureau Technical Circular (Works) No. 3/2006 Tree Preservation", the compensation ratio should preferably be 1:1 according to trunk girth. T10 has a DBH of 20 cm (<i>Table 4.3</i>), and it is proposed that six trees of heavy standard size be planted, each with a DBH of around 10 cm and root balls of not less than 0.75 m diameter and 0.75 m depth,. Since the aggregate DBH of the new trees would be 60 cm, the rate of compensation is equivalent to three times the DBH of T10, far beyond the requirements			
		The six replacement trees should be planted in the new tree strip in two staggered rows, maximising distance between each tree to avoid mutual interference in the future. It is recommended that the species selected should have a small final dimension of less than 10 m height given the proximity to built structures such as the retaining wall and buildings. Two each of the outstanding and related flowering tree species connected to local natural history are suggested::			
		 Bauhinia 'Blakeana' a native evergreen species with deep mauve flowers and an exceptionally long flowering period from late autumn to early spring. 			
		 Bauhinia purpure, a native evergreen with lighter purple flowers from late autumn to early winter. 			
		 Bauhinia variegata, an exotic deciduous species, with pale pinkish flowers in spring to early summer often when the tree has little or no leaves. 			
S4.7.2	S4	<i>Vertical Greening</i> Within the limitations of the conservation of the CPS character,	Inner Southern Wall	During detailed design and construction	N/A – No vertical greening was conducted during the reporting month.
		greening of vertical structures should be provided where possible. As such it is recommended that the inner southern wall of the Site be planted as a green wall. The plantings should be inserted in between each of the large protruding piers and an offset be made from both the			

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		top and bottom edge so that old and new are equally visible. An independent frame should be strategically positioned in order to ensure minimal disturbance to the original wall, and provide the main structural support and planting surface for the green wall. The frame on to which the new green will be planted should contain its own irrigation system so that moisture for the plants will remain mainly on the planting surface and not the exiting wall behind. The planting chosen should be appropriate to the Hong Kong climate, requiring relatively little maintenance to sustain the quality of both plants and wall.			
S4.7.2	-	<i>New Custom Paving</i> New, Patterned, High Quality, Concrete Custom Pavers should replace most of the existing paving in the open spaces.	Whole site	During detailed design and construction	N/A – No custom paving was conducted during the reporting month.
S4.7.2	S4	<u>In-situ Tree Protection - Quarterly inspection</u> Quarterly Inspection of affected and newly planted trees by an experienced and appropriately trained arborist or horticulturist using Form 1 – Tree Group Inspection Form and Form 2 – Tree Risk Assessment Form developed by Development Bureau (http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf) or a form designed by a tree expert and approved by Tree Management Office for a period of 12 months after construction.	Whole site	During post construction and operation	N/A – The quarterly inspection will be conducted at later stage.
Noise	-				
<i>S5.9</i>	-	 The following site practices should be followed during the construction of the Project: Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase; Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase; Mobile plant, if any, will be sited as far away from NSRs as possible; 	Whole Site	During construction	\checkmark

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		 Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum; Plant known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities. 			
<i>S5.9</i>	-	Noise insulating sheet would be adopted for certain PME (eg drill rig, excavator for demolition of existing structures, etc). The noise insulating sheet should be deployed such that there would be no opening or gaps on the joints.	Whole Site	During √ construction	
<i>S5.9</i>	-	Use temporary noise barriers to mitigate the noise impact arising from the construction works, particularly for low-rise NSRs. Movable noise barriers of 3 m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater than its height. The noise barrier material should have a superficial surface density of at least 7 kg m ⁻² and have no openings or gaps.	Whole Site	During √ construction	
<i>S5.9</i>	-	Use quiet PME as far as practicable to mitigate the construction noise impact.	Whole Site	During √ construction	
<i>S5.9</i>	-	Scheduling of construction activities with identified grouping of PMEs.	Whole Site	During √ construction	1
S5.11	S5	Weekly noise monitoring will be undertaken at the representative NSRs N2 Ho Fook Building and N5 Chancery House. Monthly site audits will be conducted to ensure that the recommended mitigation measures are properly implemented during the construction stage.	Whole Site	During √ construction	
Air Qu	ality				
S6.8.1	-	Dust control measures stipulated in the <i>Air Pollution Control</i> (<i>Construction Dust</i>) <i>Regulation</i> will be implemented during the construction phase to control the potential fugitive dust emissions.	Whole Site	During √ construction	

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S6.8.1	-	In particular: Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets; placed in an area sheltered on the top and three sides; or sprayed with water to maintain the entire surface wet at all the time.	Whole Site	During construction	√
S6.8.1	-	Impervious sheet will be provided for skip hoist for material transport.	Whole Site	During construction	\checkmark
S6.8.1	-	Vehicle washing facilities will be provided at the designated vehicle exit points.	Whole Site	During construction	\checkmark
S6.8.1	-	Every vehicle will be washed to remove any dusty materials from its chassis and wheels immediately before leaving the worksite.	Whole Site	During construction	\checkmark
S6.8.1	-	Road sections between vehicle-wash areas and vehicular entrances will be paved.	Whole Site	During construction	\checkmark
S6.8.1	-	The load carried by the trucks will be covered entirely to ensure no dust emission from the vehicles.	Whole Site	During construction	\checkmark
S6.8.1	-	Hoarding of not less than 2.4m high from ground level will be provided along the Project Site boundary adjoining a road where the new buildings (Old Bailey Wing and Arbuthnot Wing) will be constructed.	Whole Site	During construction	\checkmark
S6.8.1	-	Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.	Whole Site	During construction	\checkmark
S6.8.1	-	An effective dust screen will be provided to enclose scaffolding, if required, from the ground floor level of building for construction of superstructure of the new buildings.	Whole Site	During construction	\checkmark
S6.8.1	-	Impervious dust screen or sheeting will be implemented for demolition of structures and renovation of outer surfaces of structures that abuts or fronts open area accessible to the public to no less than 1m higher than the highest level of the structure being demolished.	Whole Site	During construction	\checkmark
S6.8.1	-	The area at which demolition work takes place will be sprayed with water or dust suppression chemical immediately prior to, during and immediately after the demolition activity.	Area for Demolition Work	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S6.8.1	-	ULSD will be used for all construction plant on-site.	Whole Site	During construction	\checkmark
S6.8.1	-	The engine of the construction equipment or trucks during idling will be switched off.	Whole Site	During construction	\checkmark
S6.8.1	-	Site practices such as regular maintenance and checking of construction equipment deployed on-site will be conducted to avoid any black smoke emissions and to minimise gaseous emissions.	Whole Site	During construction	N/A – Not observed.
S6.10	S3.2	Monthly environmental site audits to ensure that appropriate dust control measures are properly implemented and good construction site practices are adopted throughout the construction period.	Whole Site	During construction	\checkmark
Water (Quality			1	
S7.6	-	Channels, earth bunds or sand bag barriers will be provided on site to direct stormwater to silt removal facilities. The design of silt removal facilities will make reference to the guidelines in <i>Appendix A1</i> of <i>ProPECC PN 1/94</i> . All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	Whole Site	During construction	\checkmark
S7.6	-	All drainage facilities and erosion and sediment control structures will be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit will be removed regularly and disposed of.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Measures will be taken to reduce the ingress of stormwater into excavation areas. If the excavation of the concrete foundation is to be carried out in wet season, they will be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations will be discharged into stormwater drains via silt removal facilities.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Open stockpiles of excavated and demolition materials will be covered with tarpaulin or similar fabric during rainstorms. Measures will be taken to prevent the washing away of residues, chemicals or debris into any drainage system.	Whole Site	During construction	\checkmark

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	Manholes (including newly constructed ones) will always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Precautions will be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2 of <i>ProPECC PN 1/94</i> . Particular attention will be paid to the control of silty surface runoff during storm events.	Whole Site	During construction	N/A – Not observed.
S7.6	-	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge will be adequately designed for the controlled release of stormwater flows. All sediment traps will be regularly cleaned and maintained. The temporary diverted drainage will be reinstated to the original condition when the construction work has finished or the temporary diversion is no longer required.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Vehicle and plant servicing areas, vehicle washing bays and lubrication bays will, as far as possible, be located within roofed areas. The drainage in these covered areas will be connected to foul sewers via a petrol interceptor.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Oil leakage or spillage will be contained and cleaned up immediately. Waste oil will be collected and stored for recycling or disposal.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Waste streams classifiable as chemical wastes will be properly stored, collected and treated.	Whole Site	During construction	\checkmark
S7.6	-	All fuel tanks and chemical storage areas will be provided with locks and be sited on paved areas.	Whole Site	During construction	\checkmark
S7.6	-	The storage areas will be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled oil, fuel and chemicals from reaching the receiving waters.	Whole Site	During construction	\checkmark
S7.6	-	The Contractors will prepare guidelines and procedures for immediate clean-up actions following any spillages of oil, fuel or chemicals.	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	Surface runoff from bunded areas will pass through oil/grease traps prior to discharge to the stormwater system	Whole Site	During construction	N/A – Not observed.
S7.6	-	The stormwater discharge from the site will be monitored as part of the routine monitoring under the WPCO licence, if applicable.	Whole Site	During construction	N/A – Not observed.
S7.6	-	The existing toilet facilities of the CPS will be available to the construction workforce. The sewage will be discharged to the public sewer.	Whole Site	During construction	\checkmark
S7.8	S5.2	Monthly site audits of the works areas will be carried out during the construction phase to monitor the environmental performance of the Project and to enable prompt actions to rectify any malpractice which may give rise to water pollution problem.	Whole Site	During construction	N
Waste I	Manageme	nt	1		
S8.5	S6.3.1 & Table 6.1	<u>General</u> The Contractor shall apply for and obtain all the necessary waste disposal permits or licences are obtained prior to the commencement of the construction works.	Whole Site	During construction	\checkmark
S8.5	-	<u>Management of Waste Disposal</u> The construction contractor will open a billing account with the EPD. Every construction waste or public fill load to be transferred to the Government waste disposal facilities such as public fill reception facilities, sorting facilities, landfills will require a valid "chit" which contains the information of the account holder to facilitate waste transaction recording and billing to the waste producer.	Whole Site	During construction	√
S8.5	S6.2	A trip-ticket system will also be established to monitor the disposal of construction waste at landfill and to control fly-tipping. The trip-ticket system will be included as one of the contractual requirements and implemented by the contractor.	Whole Site	During construction	\checkmark

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S8.5	S6 & Table 6.1	A recording system for the amount of wastes generated/recycled and disposed of will be established during the construction phase.	Whole Site	During construction	\checkmark
S8.5	S6.3	<u>Reduction of Construction Waste Generation</u> C&D material will be segregated on-site into public fill and construction waste and stored in different containers or skips to facilitate reuse of the public fill and proper disposal of the construction waste. Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	Whole Site	During construction	\checkmark
S8.5	S6	<u>Chemical Waste</u> The contractor will register as a chemical waste producer with the EPD.	Whole Site	During construction and operation	\checkmark
S8.5	S6	 Containers used for storage of chemical waste shall: 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 L unless the specifications have been approved by the EPD; and Display a label in English and Chinese in accordance with instructions prescribed in <i>Schedule 2</i> of the <i>Regulations</i>. 	Whole Site	During construction and operation	\checkmark
S8.5	S6	 Storage areas for chemical waste shall: Be clearly labelled and used solely for the storage of chemical waste; Be enclosed on at least 3 sides; Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest; Have adequate ventilation; Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and Be arranged so that incompatible materials are appropriately separated. 	Whole Site	During construction and operation	V

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S8.5	S6	A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility.	Chemical Waste Treatment Centre at Tsing Yi	During construction and operation	\checkmark
S8.5	S6 & Table 6.1	<u>General Refuse</u> General refuse will be stored in enclosed bins separately from construction and chemical wastes. The general refuse will be delivered to the transfer station, separately from construction and chemical wastes, on a daily basis to reduce odour, pest and litter impacts.	Whole site	During construction	\checkmark
S8.5	S6	Recycling bins will be provided at strategic locations to facilitate recovery of aluminium can and waste paper from the Site. Materials recovered will be sold for recycling.	Whole site	During construction and operation	\checkmark
S8.5	S6	<u>Staff Training</u> At the commencement of the construction works, training will be provided to workers on the concepts of site cleanliness and on appropriate waste management procedures, including waste reduction, reuse and recycling.	Whole site	Commencement of construction	\checkmark
S8.7	S6.1 & 6.3	Monthly audits of the waste management practices will be carried out during the construction phases to determine if wastes are being managed in accordance with the recommended good site practices. The audits will examine all aspects of waste management including waste generation, storage, recycling, transport and disposal.	Whole site	During construction	√

Remark:

 $\sqrt{}$ Compliance of Mitigation Measures

<> Compliance of Mitigation but need improvement

x Non-compliance of Mitigation Measures

▲ Non-compliance of Mitigation Measures but rectified by Gammon Construction Ltd

Δ Deficiency of Mitigation Measures but rectified by Gammon Construction Ltd

N/A Not Applicable in Reporting Period

Annex H

Noise Monitoring Results

Annex H Noise Monitoring Results

Daytime Noise Monitoring Results

NM6 Chancery Mansion

Date	Start Time	End Time	Weather	Noise level (dB(A)), 30 min			Major Construction Noise Source(s)	Other Noise Source(s)	Remarks	Wind Speed	Noise Meter	Calibrator
				Leq	L10	L90	Observed	Observed		(m/s)	Model / ID	Model / ID
06-May-13	14:18	14:48	Cloudy	67.3	68.7	64.5	Crawler crane, excavation (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
11-May-13	13:50	14:20	Sunny	68.0	69.6	64.8	Crawler crane, excavation (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
16-May-13	14:18	14:48	Cloudy	67.3	68.9	64.3	Crawler crane, excavation (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
22-May-13	13:50	14:20	Trace rain	65.8	67.2	63.3	Crawler crane (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
28-May-13	15:00	15:30	Fine	69.9	71.1	68.9	Piling, crawler crane, compressor (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
			Min.	65.8								•
			Max.	69.9								

NM2 Ho Fook Building

Date	Start Time	End Time	Weather	Noise	level (dB(A)), 30 min	Major Construction Noise Source(s) Observed	Other Noise Source(s)	Remarks	Wind Speed	Noise Meter	Calibrator
Dute	otart rinc	Ling fillie	Weather	Leq	L10	L90		Observed	nemarka	(m/s)	Model / ID	Model / ID
06-May-13	15:00	15:30	Cloudy	67.2	69.0	63.8	Crawler crane, excavation (within the project site)	Traffic noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
11-May-13	13:00	13:30	Sunny	67.0	68.9	64.2	Crawler crane, excavation (within the project site)	Traffic Noise	-	0.2	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
16-May-13	14:56	15:26	Cloudy	67.4	69.1	63.6	Crawler crane, excavation (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
22-May-13	11:05	11:35	Trace rain	65.1	67.0	62.3	Crawler crane (within the project site)	Traffic Noise	-	0.8	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10997142)
28-May-13	13:00	13:30	Fine	70.8	72.1	69.3	Piling, crawler crane, compressor (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
			Min.	65.1								
			Max.	70.8								

Annex H Noise Monitoring Results

Daytime Noise Monitoring Results

NM6 Chancery Mansion

Date	Start Time	End Time	Weather	Noise	level (dB(A)), 30 min	Major Construction Noise Source(s)	Other Noise Source(s)	Remarks	Wind Speed (m/s)	Noise Meter Model / ID	Calibrator Model / ID
				Leq	L10	L90	Observed	Observed		(111/5)	wouer / ID	Wodel / ID
03-Jun-13	14:18	14:48	Sunny	71.0	72.2	69.6	Crawler crane (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
08-Jun-13	10:25	10:55	Sunny	69.2	70.7	67.6	Crawler crane, piling (within the project site)	Traffic Noise	-	0.2	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
14-Jun-13	9:50	10:20	Cloudy	70.0	71.3	68.2	Crawler crane, piling, compressor (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
20-Jun-13	10:20	10:50	Sunny	68.6	70.0	67.4	Crawler crane, compressor (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
26-Jun-13	15:00	15:30	Sunny	69.4	70.5	67.9	Crawler crane, welding, compressor (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
			Min.	68.6								
			Max.	71.0								

NM2 Ho Fook Building

Date	Start Time	End Time	Weather	Noise	level (dB(A)), 30 min	Major Construction Noise Source(s)	Other Noise Source(s)	Remarks	Wind Speed	Noise Meter Model / ID	Calibrator Model / ID
				Leq	L10	L90	Observed	Observed		(m/s)	Model / ID	wodel / ID
03-Jun-13	15:00	15:30	Sunny	68.8	70.5	66.2	Crawler crane (within the project site)	Traffic noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
08-Jun-13	9:45	10:15	Sunny	68.7	70.3	66.5	Crawler crane, piling (within the project site)	Traffic Noise	-	0.2	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
14-Jun-13	10:30	11:00	Cloudy	67.8	69.3	65.3	Crawler crane, piling (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
20-Jun-13	9:40	10:10	Sunny	66.4	67.8	63.2	-	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
26-Jun-13	13:00	13:30	Sunny	66.5	68.1	64.8	Crawler crane, welding (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
			Min.	66.4								
			Max.	68.8								

Annex H Noise Monitoring Results

Daytime Noise Monitoring Results

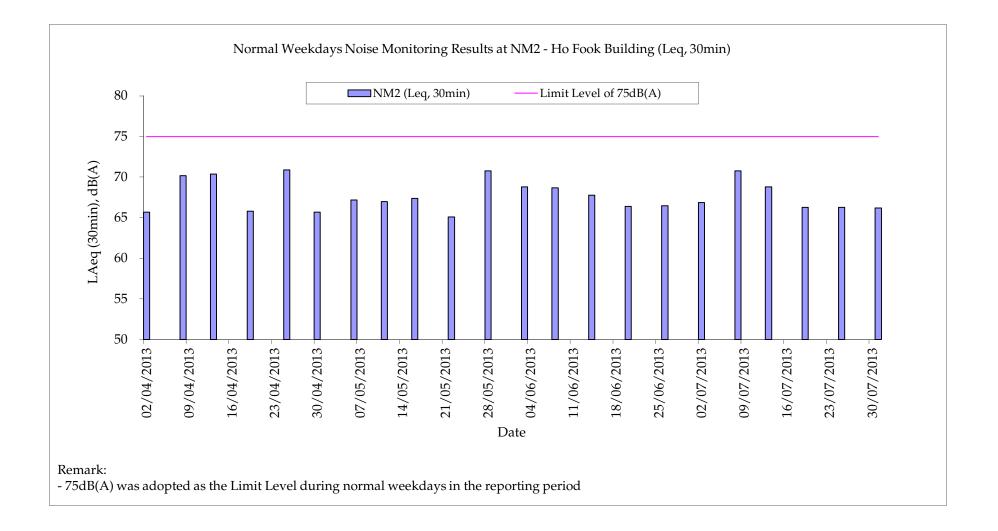
NM6 Chancery Mansion

Date	Start Time	End Time	Weather	Noise level (dB(A)), 30 min			Major Construction Noise Source(s)	Other Noise Source(s)	Remarks	Wind Speed (m/s)	Noise Meter Model / ID	Calibrator Model / ID
				Leq	L10	L90	Observed	Observed		(/3)		
02-Jul-13	11:20	11:50	Sunny	69.8	71.4	67.9	Crawler crane, compressor (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
08-Jul-13	13:38	14:08	Sunny	71.8	72.6	71.0	Crawler crane, compressor (within the project site)	Traffic Noise	-	0.2	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
13-Jul-13	10:25	10:55	Sunny	69.6	70.8	67.9	Crawler crane, compressor (within the project site)	Traffic Noise	-	0.2	RION- NL31 (S/N 00603867)	CEL-120 (S/N 3421612)
19-Jul-13	9:40	10:10	Cloudy	69.1	70.3	67.8	Crawler crane, compressor (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00410224)	RION - NC73 (S/N 10786708)
25-Jul-13	9:40	10:10	Cloudy	69.1	70.8	68.1	Crawler crane, compressor (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00410224)	RION - NC73 (S/N 10786708)
31-Jul-13	14:20	14:50	Sunny	68.0	69.5	65.3	Crawler crane (within the project site)	Traffic Noise	-	0.2	RION- NL31 (S/N 00410224)	RION - NC73 (S/N 10786708)
			Min.	68.0								
			Max.	71.8								

NM2 Ho Fook Building

Date	Start Time	End Time	Weather	Noise level (dB(A)), 30 min			Major Construction Noise Source(s)	Other Noise Source(s)	Remarks	Wind Speed	Noise Meter Model / ID	Calibrator Model / ID
				Leq	L10	L90	Observed	Observed		(m/s)	wouel / ID	would / ID
02-Jul-13	10:43	11:13	Sunny	66.9	68.4	64.8	Crawler crane (within the project site)	Traffic noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
08-Jul-13	14:15	14:45	Sunny	70.8	72.6	66.6	Crawler crane (within the project site)	Traffic Noise	-	0.2	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
13-Jul-13	9:45	10:15	Sunny	68.8	70.4	67.1	Crawler crane (within the project site)	Traffic Noise	-	0.2	RION- NL31 (S/N 00603867)	CEL-120 (S/N 3421612)
19-Jul-13	9:02	9:32	Cloudy	66.3	67.6	63.9	Crawler crane (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00410224)	RION - NC73 (S/N 10786708)
25-Jul-13	10:20	10:50	Cloudy	66.3	67.7	64.5	Crawler crane (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00410224)	RION - NC73 (S/N 10786708)
31-Jul-13	13:00	13:30	Sunny	66.2	67.6	64.4	Crawler crane (within the project site)	Traffic Noise	-	0.2	RION- NL31 (S/N 00410224)	RION - NC73 (S/N 10786708)
			Min.	66.2								
			Max.	70.8								





Annex I

Construction Programme of the Project

Activity ID	Activity Description	Duration in Days	I A S O N D . I F M A M . I . I A S O N D . I F M A M . I . I A S O N D . I F M A M . I . I A S O N D . I F M A M . I . I A S O N D . I F M A M . I . I A	
GENERA		III Days		Marina marina Marina marina
S110	PRECONSTRUCTION WORKS	592		
	BUILDINGS	002		
160010	BLOCK 16 WORKSHOP & LAUNDRY (DEMOLITION WORKS)	198		
180010	BLOCK 18/14 ANNEX/BLDG F/G/H/ (DEMOLITION WORKS)	149	BLOCK:18/14/ANNEX/BLOG/F/G/H/ (DEMOLITION WORKS)	
080010	BLOCK 08 ABLUTIONS BLOCK	731		
170005	BLOCK 17 F HALL	593		
010005	BLOCK 01 POLICE HEADQUARTERS BLOCK	626		
140005	BLOCK 14 D HALL	645		
120010	BLOCK 12 B HALL	341		
110010	BLOCK 11 A HALL	311	-	
100010	BLOCK 10 SUPERINTENDENT'S HOUSE	517		
130010	BLOCK 13 C HALL	517	Т : : : : : : : : : : : : : : : : : : :	
060005	BLOCK 06 MARRIED SERGEANTS' QUARTERS	223	BLOCK 06 MARRIED SERGEANTS QUARTERS	
070005	BLOCK 07 SINGLE INSPECTORS' QUARTERS	225		
030005	BLOCK 03 BARRACK BLOCK	440		
020005	BLOCK 02 ARMOURY	425		
090005	BLOCK 09 CENTRAL MAGISTRACY	425		
150010	BLOCK 15 E HALL	304		
040005	BLOCK 04 MARRIED INSPECTORS' QUARTERS	349	BLOCK 04 MARRIED INSPECTORS QUARTERS	
190005	BLOCK 19 BAUHINIA HOUSE	277		
050002	BLOCK 05 (DEMOLITION WORKS)	119		
OTHER V	VORKS			
253110	REVETMENT WALL / U/G UTILITIES / ROAD WORKS	679		DWORK
NEW BUI	LDINGS	-		
S200	OBW OLD BAILEY WING	1,097		
S300	AW ARBUTHNOT WING	1,056		
BASEME	NT PLANTROOM AND SERVICES TRENCH			
	BASEMENT PLANTROOM / SERVICES TRENCH	588	BASEMENT, PLANTROOM!/ SERVICES TRENCH	
NEW FOO	OTBRIDGE			
2300125	PROPOSED FOOTBRIDGE	699		
	Т76М		Sheet 1 of 1 GCL / P / J3416 /SUM/CP01 Date Revision Checkert	



CENTRAL POLICE STATION CONSERVATION AND REVITALIZATION (MANAGEMENT CONTRACT) CONSTRUCTION PROGRAMME SUMMARY PROGRAMME

	GCL / P / J3416 /SUM/CP01											
Date	Revision	Checked	Approved									
13NOV12	for EPD											
04MAR13	revised											

Annex J

Waste Flow Table

Month / Year					Qu	antity					
	C&D Materials (inert) (tonnes) ^(a)	Number of Trucks for C&D Materials	Volume of C&D Materials (inert)	C&D Materials (non-inert)	Number of Trucks for C&D Materials			Chemical Waste	Recycled materials		
	(incri) (tolines)	Disposal (inert)	$(m^3)^{(c)}$	(tonnes) ^(b)	Disposal (non-inert)	inert) (m ³) ^(c)	/kg)	(Liquid/L)	Paper/cardboard (kg)	Plastics (kg)	Metals (kg)
October 2011 -											
November 2011	0	0	0	33.5	12	58.50	0	0	38	6	36423
December-11	0	0	0	18.25	6	29.25	0	0	112	0	24000
January-12	354.14	40	195.00	16.88	5	24.38	2400	0	0	0	3820
February-12	252.35	15	73.13	17.13	5	24.38	1400	0	223	0	8910
March-12	666.43	62	302.25	28.56	9	43.88	3200	0	0	0	48490
April-12	688.68	72	351.00	17.54	5	24.38	0	0	0	0	124030
May-12	492.33	61	297.38	36.33	13	63.38	0	0	266	0	0
June-12	383.11	45	219.38	27.41	8	39.00	40	45	0	0	1100
July-12	217.98	25	121.88	23.22	8	39.00	0	0	302	0	1750
August-12	341.87	42	204.75	48.87	16	78.00	0	0	0	0	2310
September-12	227.7	29	141.38	37.99	12	58.50	0	0	383	0	1410
October-12	290.58	44	214.50	30.34	8	39.00	0	0	86	0	3150
November-12	843.86	100	487.50	47.44	15	73.13	0	0	0	0	5650
December-12	207.5	27	131.63	88.66	28	136.50	0	0	0	0	27230
January-13	273.64	34	165.75	276.17	74	360.75	0	0	172	0	8120
February-13	945.97	131	638.63	177.54	46	224.25	0	0	0	0	1080
March-13	1236.96	151	736.13	230.55	60	292.50	0	0	164	0	11300
April-13	1406.79	187	911.63	232.27	63	307.13	135	12	225	0	21220
May-13	2679.91	317	1545.38	176.68	44	214.50	0	0	62	0	17286
June-13	3062.38	356	1735.50	212.63	56	273.00	0	0	0	0	7150
July-13	3814.86	465	2266.88	114.36	43	209.63	0	0	168	0	14843
Tota	al 18387.04	2203	10739.625	1892.32	536	2613.00	7175	57	2201	6	369272

Annex J – Waste Flow Table

Notes:

(a) Inert C&D materials (public fill) include bricks, concrete, building debris, rubble and excavated soil.

(b) Non-inert C&D materials include steel, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Steel materials generated from the Project are grouped into construction wastes as the materials were not disposed of with other inert C&D materials and were recycled. The non-inert C&D materials other than steel, plastics and paper / cardboard packaging were disposed of at SENT Landfill.

(c) If necessary, use the conversion factor: 3/4 load of dumping truck being equivalent to 6.5 m³ by volume.

Annex K

Environmental Complaint, Environmental Summons and Prosecution Log

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
November 2011	0	0
December 2011	0	0
January 2012	0	0
February 2012	0	0
March 2012	4	0
April 2012	0	0
May 2012	0	0
June 2012	2	0
July 2012	1	0
August 2012	0	0
September 2012	0	0
October 2012	0	0
November 2012	2	0
December 2012	0	0
January 2013	0	0
February 2013	1	0
March 2013	1	0
April 2013	0	0
May 2013	0	0
June 2013	0	0
July 2013	0	0
Overall Total	11	0

Annex K Cumulative Complaint and Summons/Prosecutions Log

ENVIRONMENTAL RESOURCES MANAGEMENT

Annex L

Records of Vibration Monitoring for Trial Piling and Piling Works



								Trigger Levels	
	ammo				Monitoring	g Check Pts.	Alert level	Alarm level	
					Vibration	Monitoring	2mm/s	2.5mm/s	Γ
					# Vibration at	largest span of	5.0mm/s	6.0mm/s	T
					highest Str	uctural level	5.0mm/s	o.umm/s	
				Vibration	Record				
Project Title: Centr	ral Police Sta	tion Conserva	ation & Rev	italization	Project No:	WP107	19-Apr-2013	to	
(WP10	07 Parade Gr	ound Baseme	nt)						
POINT	VM1-1	#VM1-2	VM2-1	VM3-1	#VM3-2				
DATE	mm/s	mm/s	mm/s	mm/s	mm/s				
19-Jun-2012 (Initial)									
19-Apr-13	0.166	0.761	0.145	1.650	0.281				
20-Apr-13	1.430	0.160	0.164	0.178	0.157				
21-Apr-13					Sunday				_
22-Apr-13	0.241	0.255	0.093	0.128	0.114				
23-Apr-13	0.246	0.327	0.102	0.318	0.177				1
24-Apr-13	0.307	0.251	0.103	0.093	0.151				1
25-Apr-13	0.150	0.258	0.137	0.305	0.143				1
26-Apr-13	0.184	0.317	0.129	0.962	0.159				
27-Apr-13	0.183	0.232	0.093	0.414	0.132				
28-Apr-13					Sunday				_
29-Apr-13	1.310	0.420	0.160	0.211	0.172				
30-Apr-13	0.264	0.112	0.172	0.565	0.156				
01-May-13					Holiday		-		_
02-May-13	0.160	0.206	0.600	1.460	0.145				

Remarks: # Vbration at largest span of highest structural level

Prepared by : Wong Wing Yee

h Endorsed by: Yee Hop

3mm/s

7.5mm/s

2-May-2013

								Trigger Levels	8
6 6	amm	an			Monitoring	g Check Pts.	Alert level	Alarm level	Action level
					Vibration	Monitoring	2mm/s	2.5mm/s	3mm/s
					# Vibration at	t largest span of	5. Oreans la	6.0mm/s	7.5
					highest Str	uctural level	5.0mm/s	0.0mm/s	7.5mm/s
				Vibration	Record				
Project Title: Centr	al Police Sta	tion Conserva	ation & Revi	talization	Project No:	WP107	3-May-2013	to	16-May-2013
(WP10	7 Parade Gr	ound Baseme	nt)						
POINT	VM1-1	#VM1-2	VM2-1	VM3-1	#VM3-2				
DATE	mm/s	mm/s	mm/s	mm/s	mm/s				
19-Jun-2012 (Initial)									
03-May-13	0.609	0.103	0.117	0.227	0.128				
04-May-13	0.131	0.246	0.121	0.124	0.145			1.6.11	
05-May-13					Sunday				
06-May-13	0.268	0.200	0.181	0.192	0.221				
07-May-13	0.128	0.156	0.093	0.507	0.326				
08-May-13	0.187	0.212	0.318	0.196	0.216				
09-May-13	1.210	0.295	0.102	0.086	0.304				
10-May-13	0.236	0.246	0.117	1.500	0.393				
11-May-13	0.133	0.300	0.169	0.288	0.160				
12-May-13					Sunday				
13-May-13	0.256	1.450	0.090	0.507	0.302				
14-May-13	0.241	1.160	0.182	1.090	0.218				
15-May-13	0.189	0.817	0.102	0.256	0.333				
16-May-13	0.209	0.247	0.145	0.597	0.239				

Prepared by : Wong Wing Yee

L Endorsed by: Yee Hop

Monitoring Check Pts. Alert level Alarm level Action level Vibration Monitoring 2mm/s 2.5mm/s 3mm/s # Vibration at largest span of highest Structural level 5.0mm/s 6.0mm/s 7.5mm/s Vibration Record Kibration Record Kibration Record Kibration Record Kibration Record									Trigger Levels	
Vibration Zamas Zamas <thzamas< th=""> Zamas Zamas</thzamas<>		amm	an			Monitoring	g Check Pts.			
Vibration Record Project Title: Central Police Station Conservation & Revitalization Project No: WP107 17-May-2013 to 30-May-2013 WP107 Parade Ground Basement) WM2-1 WM3-1 #VM3-2 Image: Structural Level 17-May-2013 to 30-May-2013 DATE mm/s mm/s mm/s mm/s mm/s in 1 19-Jun-2012 (Initia) mm/s mm/s mm/s in in 1 19-May-13 0.202 0.571 0.090 0.145 1.330 in in 19-May-13 0.202 0.571 0.090 0.145 1.330 in in 19-May-13 0.629 0.372 0.316 0.336 0.274 in in 20-May-13 0.133 0.454 0.083 0.117 1.110 in in in 22-May-13 0.165 0.293 0.866 0.529 in in<		annin				Vibration	Monitoring	2mm/s	2.5mm/s	3mm/s
Number of the second						# Vibration at	largest span of	5.0	6.0	7.5
Project Title: Central Police Station Conservation & Revitalization Project No: WP107 17-May-2013 to 30-May-2013 WP107 Parade Ground Basement) VM1-1 #VM1-2 VM2-1 VM3-1 #VM3-2 Image: Conservation &						highest Str	uctural level	5.0mm/s	6.0mm/s	7.5mm/s
WP107 Parade Ground Basement) POINT VM1-1 #VM1-2 VM2-1 VM3-1 #VM3-2 DATE mm/s mm/s mm/s mm/s mm/s mm/s 19-Jun-2012 (Initial) mm/s mm/s mm/s mm/s mm/s mm/s 19-Jun-2012 (Initial) mm/s mm/s mm/s mm/s mm/s mm/s 19-May-13 0.202 0.571 0.090 0.145 1.330 1 1 19-May-13 0.202 0.571 0.090 0.145 1.330 1 1 20-May-13 0.202 0.571 0.090 0.145 1.330 1					Vibration	Record				
POINT VM1-1 #VM1-2 VM2-1 VM3-1 #VM3-2 DATE mm/s	Project Title: Centr	al Police Sta	tion Conserva	ation & Revi	talization	Project No:	WP107	17-May-2013	to	30-May-2013
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	(WP10)7 Parade Gr	ound Baseme	nt)						
19-Jun-2012 (Initial) Image: Constraint of the stress	POINT	V M 1-1	#VM1-2	VM2-1	VM3-1	# ∇ M 3-2				
Holiday 17-May-13 0.202 0.571 0.090 0.145 1.330 Image: stress of the stre	DATE	mm/s	mm/s	mm/s	mm/s	mm/s				
18-May 13 0.202 0.571 0.090 0.145 1.30 19-May-13 5unday 20-May-13 0.133 0.454 0.083 0.117 1.070 21-May-13 0.529 0.372 0.316 0.386 0.274 1000 21-May-13 0.087 0.097 0.132 0.151 1.110 1000 22-May-13 0.087 0.097 0.132 0.151 1.110 1000 23-May-13 0.178 0.373 0.212 0.512 0.350 1000 24-May-13 0.165 0.293 0.086 0.556 0.329 1000 25-May-13 0.165 0.293 0.086 0.556 0.329 1000 25-May-13 0.371 0.447 0.175 0.563 0.138 1000 26-May-13 0.227 0.197 0.135 1.300 0.454 1000 10000 28-May-13 0.618 0.171 0.106 0.302 0.387 1000 10000 29-May-13 0.113 0.211 0.137 0	19-Jun-2012 (Initial)									
19-May-13 Sunday 20-May-13 0.133 0.454 0.083 0.117 1.070 Image: Constraint of the stress of the st	17-May-13					Holiday	•			
20-May-13 0.133 0.454 0.083 0.117 1.070 Image: Constraint of the state of t	18-May-13	0.202	0.571	0.090	0.145	1.330				
21-May-13 0.529 0.372 0.316 0.386 0.274 22-May-13 0.087 0.097 0.132 0.151 1.110 23-May-13 0.178 0.373 0.212 0.512 0.350 24-May-13 0.165 0.293 0.086 0.556 0.329 <t< td=""><td>19-May-13</td><td></td><td></td><td></td><td></td><td>Sunday</td><td></td><td></td><td></td><td></td></t<>	19-May-13					Sunday				
22-May-13 0.087 0.097 0.132 0.151 1.110 23-May-13 0.178 0.373 0.212 0.512 0.350 24-May-13 0.165 0.293 0.086 0.556 0.329 25-May-13 0.371 0.447 0.175 0.563 0.138 26-May-13 0.371 0.447 0.135 1.300 0.454 27-May-13 0.227 0.197 0.135 1.300 0.454 <td>20-May-13</td> <td>0.133</td> <td>0.454</td> <td>0.083</td> <td>0.117</td> <td>1.070</td> <td></td> <td></td> <td></td> <td></td>	20-May-13	0.133	0.454	0.083	0.117	1.070				
23-May-13 0.178 0.373 0.212 0.512 0.350 24-May-13 0.165 0.293 0.086 0.556 0.329	21-May-13	0.529	0.372	0.316	0.386	0.274				
24-May-13 0.165 0.293 0.086 0.556 0.329	22-May-13	0.087	0.097	0.132	0.151	1.110				
25-May-13 0.371 0.447 0.175 0.563 0.138 Image: Constraint of the state of the s	23-May-13	0.178	0.373	0.212	0.512	0.350				
26-May-13 Sunday 26-May-13 0.227 0.197 0.135 1.300 0.454 Image: Constraint of the second se	24-May-13	0.165	0.293	0.086	0.556	0.329				
27-May-13 0.227 0.197 0.135 1.300 0.454 28-May-13 0.618 0.171 0.106 0.302 0.387 29-May-13 0.113 0.211 0.137 0.188 0.170 30-May-13 0.163 1.400 0.098 0.105 0.239	25-May-13	0.371	0.447	0.175	0.563	0.138				
28-May-13 0.618 0.171 0.106 0.302 0.387	26-May-13					Sunday				
29-May-13 0.113 0.211 0.137 0.188 0.170 30-May-13 0.163 1.400 0.098 0.105 0.239	27-May-13	0.227	0.197	0.135	1.300	0.454				
30-May-13 0.163 1.400 0.098 0.105 0.239	28-May-13	0.618	0.171	0.106	0.302	0.387				
	29-May-13	0.113	0.211	0.137	0.188	0.170				
		0.163	1.400	0.098	0.105	0.239				

						(1 1 D)		Trigger Levels	
	ìamm	nn			Monitoring	g Check Pts.	Alert level	Alarm level	Action level
		VII			Vibration	Monitoring	2mm/s	2.5mm/s	3mm/s
					# Vibration at	largest span of	5.0mm/s	6 Querra la	7.5 /
					highest Str	uctural level	3.0mm/s	6.0mm/s	7.5mm/s
				Vibration	Record				
Project Title: Cen	tral Police Sta	tion Conserv	ation & Revi	talization	Project No:	WP107	31-May-2013	to	13-Jun-2013
(WP)	107 Parade Gr	ound Baseme	ent)						
POINT	VM1-1	#VM1-2	VM2-1	VM3-1	#VM3-2				
DATE	mm/s	mm/s	mm/s	mm/s	mm/s				
19-Jun-2012 (Initial)									
31-May-13	0.175	0.218	0.087	0.704	0.851				
1-Jun-13	0.139	0.207	0.209	0.135	1.120				
2-Jun-13					Sunday				
3-Jun-13	0.151	0.341	0.087	0.764	0.284				
4-Jun-13	0.147	0.448	0.086	0.178	0.553				
5-Jun-13	0.102	0.093	0.091	1.190	0.111				
6-Jun-13	0.720	0.434	0.106	0.599	0.286				
7-Jun-13	0.291	0.458	0.087	0.484	0.631				
8-Jun-13	0.187	0.323	0.091	0.087	0.278				
9-Jun-13					Sunday				
10-Jun-13	0.206	0.216	0.091	0.091	0.319				
11-Jun-13	0.211	0.144	0.245	0.138	0.137				
12-Jun-13					Holiday				
13-Jun-13	0.125	0.487	0.083	1.060	0.163				

Prepared by : Wong Wing Yee

l Endorsed by: Yee Hop

								Trigger Levels	
	iamm	on			Monitoring	g Check Pts.	Alert level	Alarm level	Action level
					Vibration	Monitoring	2mm/s	2.5mm/s	3mm/s
					# Vibration at	largest span of	5.0 mm/s	6.0 mm/s	7.5mm/s
					highest Str	uctural level	5.01111/3	0.011111/3	7.5111173
				Vibration	Record				
Project Title: Cent	ral Police Sta	ation Conserva	ation & Revi	talization	Project No:	WP107	14-Jun-2013	to	27-Jun-2013
(WP1	07 Parade Gr	ound Baseme	nt)		-				
POINT	V M 1-1	#VM1-2	VM2-1	VM3-1	# ∇ M 3-2				
DATE	mm/s	mm/s	mm/s	mm/s	mm/s				
19-Jun-2012 (Initial)									
14-Jun-13	0.842	0.192	0.242	0.636	0.163				
15-Jun-13	0.966	0.139	0.169	0.497	0.117				
16-Jun-13					Sunday				
17-Jun-13	1.540	0.451	0.739	0.266	0.247				
18-Jun-13	0.883	0.209	0.087	0.323	0.416				
19-Jun-13	0.223	0.214	0.624	0.151	0.163				
20-Jun-13	0.194	0.162	0.150	0.293	0.402				
21-Jun-13	0.122	0.384	0.114	0.113	0.436				
22-Jun-13	0.203	0.143	0.119	0.705	0.630				
23-Jun-13		-			Sunday				
24-Jun-13	0.363	0.131	0.087	0.113	0.182				
25-Jun-13			0.094	0.579					
26-Jun-13 0.151 0.146 0.113 0.173		0.173	0.392						
20-Juli-13									

					[Trigger Levels	
GG	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~				Monitoring	g Check Pts.	Alert level	Alarm level	Action level
	amm	on			Vibration	Monitoring	2mm/s	2.5mm/s	3mm/s
					# Vibration at	argest span of uctural level	5.0mm/s	6.0mm/s	7.5mm/s
				Vibration	Record				
Project Title: Centr	ral Police Sta	ation Conserv	ation & Revi	talization	Project No:	WP107	28-Jun-2013	to	11-Jul-2013
		ound Baseme			v				
POINT	VM1 -1	#VM1-2	VM 2-1	VM 3-1	#VM3 -2				
DATE	mm/s	mm/s	mm/s	mm/s	mm/s				
19-Jun-2012 (Initial)									
28-Jun-13	0.156	0.561	0.087	0.403	1.650				
29-Jun-13	0.103	0.199	0.225	0.192	0.378				
30-Jun-13					Sunday				
01-Jul-13					Holiday				
02-Jul-13	0.150	0.175	0.398	0.502	0.308				
03-Jul-13	0.398	0.163	0.147	0.150	0.825				
04-Jul-13	0.228	0.450	0.209	0.974	0.178				
05-Jul-13	0.132	0.139	0.153	0.211	0.230				
06-Jul-13	0.183	0.185	0.434	0.310	0.104				
07-Jul-13					Sunday				
08-Jul-13	0.128	1.050	0.095	0.135	0.241				
09-Jul-13	0.132	0.497	0.241	0.163	0.172				
10-Jul-13	0.137	0.154	0.112	0.116	0.253				
11-Jul-13	0.199	0.191	0.242	0.160	0.415				
Remarks: # Vbration at	largest span of	highest structur	al level						

Prepared by : Wong Wing Yee

Endorsed by: Yee Hop

					Γ			m' t 1	
G					Monitoring	g Check Pts.		Trigger Levels	A 1 1
	ammo	on			Vibration	Monitoring	Alert level	Alarm level	Action level
						largest span of	2mm/s	2.5mm/s	3mm/s
						uctural level	5.0 mm/s	6.0 mm/s	7.5mm/s
				Vibration	Record				
Project Title: Centr	al Police Sta	tion Conserv	ation & Revi	talization	Project No:	WP107	12-Jul-2013	to	25-Jul-2013
(WP10	7 Parade Gr	ound Baseme	ent)						
POINT	VM 1-1	#VM1-2	VM 2-1	VM 3-1	#VM3 -2				
DATE	mm/s	mm/s	mm/s	mm/s	mm/s				
19-Jun-2012 (Initial)									
12-Jul-13	0.178	0.172	0.135	0.367	0.154				
13-Jul-13	0.318	0.225	0.264	0.493	0.191				
14-Jul-13					Sunday				
15-Jul-13	0.333	0.194	0.160	1.670	0.365				
16-Jul-13	0.238	0.145	0.163	1.430	0.491				
17-Jul-13	0.974	0.158	0.169	0.515	0.474				
18-Jul-13	0.268	0.216	0.687	0.406	0.383				
19-Jul-13	0.837	0.125	0.117	0.271	0.217				
20-Jul-13	0.102	0.272	1.410	0.285	0.417				
21-Jul-13					Sunday				
22-Jul-13	0.259	0.144	0.341	0.166	0.310				
23-Jul-13	0.194	0.345	0.448	0.197	0.270				
24-Jul-13	0.315	0.147	0.093	0.371	0.487				
25-Jul-13	0.370	0.354	0.116	0.211	0.325				
Remarks: # Vibration at	largest span of	f highest structu	ral level						

Prepared by : Wong Wing Yee

Endorsed by: Yee Hop

					[I		
	ammo				Monitoring	g Check Pts.		Trigger Levels	A 1 1
G	ammo	on			Vibuotion	Monitoring	Alert level	Alarm level	Action level
					-	argest span of	2mm/s	2.5mm/s	3mm/s
						uctural level	5.0 mm/s	6.0 mm/s	7.5mm/s
				Vibration	Record				
Project Title: Centr	ral Police Sta	ation Conserv	ation & Revi	talization	Project No:	WP107	25-Jul-2013	to	7-Aug-2013
		ound Baseme			-				
POINT	VM1 -1	#VM1-2	VM 2-1	VM 3-1	#VM3 -2				
DATE	mm/s	mm/s	mm/s	mm/s	mm/s				
19-Jun-2012 (Initial)									
25-Jul-13	0.370	0.354	0.116	0.211	0.325				
26-Jul-13	0.108	0.287	0.121	0.144	0.216				
27-Jul-13	0.552	0.170	0.129	0.212	0.191				
28-Jul-13					Sunday				
29-Jul-13	0.209	0.146	0.265	0.474	0.122				
30-Jul-13	0.111	0.384	0.169	0.128	0.544				
31-Jul-13	0.402	0.221	0.131	0.192	0.334				
01-Aug-13	0.436	0.326	0.091	0.507	0.329				
02-Aug-13	0.278	0.216	0.103	0.476	0.286				
03-Aug-13	0.117	0.151	0.094	0.106	0.131				
04-Aug-13					Sunday				
05-Aug-13	0.220	0.310	0.105	0.278	0.196				
06-Aug-13	0.109	0.250	0.301	0.313	0.190				
07-Aug-13	0.290	0.220	0.169	0.189	0.275				
Remarks: # Vibration a	t largest span o	f highest structu	ral level						

Prepared by : Wong Wing Yee

Endorsed by: Yee Hop



Gia	/Pipe Pile Walls	3/3053/11 (BLK 17&56) (HW)(S)
UI MIC	HOUSE HOUSE	F.S.D. Ref. No. 消防虚检索编张
	CHO/	Revision/Submission 佳改哉/ 提出 No. 编辑 Description 说明 Date日期 Approved 審定
7//		- BD SUBMISSION 12/11 JS
21		
15	Shiu King Court	
	L-TL I - F	
	Oviolo	
th	\$+\1 2	
1	The second	
1.2	10 10	
	1401 000 180 180 3000 000	
40.4	of the come	Plan Approved
01	all the tar the tr	X
UH.	354	NG Kin shing Chief Structural Engineer
	+ · · · ·	for BUILDING AUTHORITY 2 0 FEB 2012
1 52	the last	
-115	W-B/R176	Key Plan 索引圖
-41		Store to
	E	
T	Podi	· · · · · · · · · · · · · · · · · · ·
		0 0 0 0
	ABT A	40.00
	Mater X	
11	Martin Contraction	BD SUBMISSION
	AV 5	Drawing Status 製圖狀況 - This drawing and the contents herein are the copyright
1 /3)	KWAN KIN KEI CEng FISmeels MICE EDER ABOISTENED STRUCCHAL ENOR	of relevant consultants. 本關紙及其內省的成星屬有關範間公司所有。 - No part of the drawing and the design contained herein
11	REGISTERED STRUCT RAL ENGRAPHICA	may be reproduced without the prior written consent of relevant concultance. 未经有關請問公司書面同意。不得複製此圖紙內任何
		內容或設計。 - Do not take measurements directly from this drawing 切勿直接從圓底上量度尺寸。
0-100	EXISTING FRESH WATER MAIN	 Check and verify all dimensions or site. 所有尺寸必須在工地現場複查及著核。 Read this drawing in conjunction with the specifications
©	EXISTING SALT WATER MAIN	and all other related drawings. 此圈話必须與現格說明書及其它有關圈紙一併閱讀。 - Notify the relevant consultants immediately of any
- LAIST	EXISTING STREET LIGHTING CAELE	discrepancy found herein. 如發現內容有任何謬誤之處。應立刻通知有讚願問公司。
ê) 150	EXISTING GAS WAIN	Client 菜主 賽馬會文物保有有限公司
- 1330	EXISTING HV ELECTRICITY CABLE	The Jockey Club CPS Limited
1.9	EXISTING LV ELECTRICITY CABLE	
HZ -	(HUTCHISON GLOBAL COMMUNICATIONS	Conservation Architect
C	LIMITED) EXISTING STORNWATER DRAIN	Executive Architect / AP
150	EXISTING FOUL SEWER	ROCCO
15]	PROPOSED FOUL SEWER	Structural Engineer / RSE E & M Engineer
	SITE BOUNDARY	ARUP ARUP
1.00	EXISTING RETAINING WALL	Project 項目 CENTRAL POLICE STATION
,P)	EXISTING DRILLHOLE WITH STANDPIPE/PIEZOMETER	CONSERVATION AND REVITALISATION PROJECT
-1	PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER	Drawing Title III名 MONITORING LAYOUT PLAN
174-1	PROPOSED RETAINING WALL SETLEMENT POINTS/THEIMETER	
	PROPOSED INCLINOMETER TO BE BALLT IN	Scale HERM Drawn NUM Checked KER 1:3000A1 K.C.Loi AL
	BORED PILE OR FIPE PILE WALL PROPOSED GROUND SETTLEMENT POINTS	Drawing No. 国弦 Revision 你说能 00-0AP209674-G-001 -
	PROPOSED UTILITY WONITORING POINTS	
Û.	PROPOSED VIBRATION MONITORING POINTS	
(S/P)		
1.11	PROPOSED ADDITIONAL DRILLHOLE	

₩₩ 恆誠

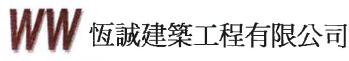
Win Win Way O

							(Bore	d Pile Walls / Pipe	Pile Walls at B	lock 50)
10/11						Manitorina	Chaols Dta		Trigger Levels	
	杨	试 建筑-	L程有限	公司		Monitoring	Check Pts.	Alert level	Alarm level	Action level
	L LATI	现生术-	山王月祝			Vibration	Monitoring	2mm/s	2.5mm/s	3mm/s
Win W	'in Way	Construct	tion Compa	ny Ltd.		Vibration at 1 highest Stru	argest span of uctural level	5.0mm/s	6.0 mm/s	7.5mm/s
					Vibration	Record				
Project Title:	Central	Police Station	Conservation	& Revitalizatio	on	Project No: W	P201	21-Apr-2013	to	4-May-2013
POINT	ſ	VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012	(Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
21-Apr-2013						Sunday				
22-Apr-2013		0.26	0.35	0.13	0.51	0.11	0.42	0.21	0.32	0.15
23-Apr-2013		0.31	0.13	0.55	0.16	0.64	0.25	0.81	0.45	0.16
24-Apr-2013		0.23	0.21	0.15	0.61	0.25	0.45	0.28	0.81	0.13
25-Apr-2013		0.36	0.13	0.09	0.51	0.24	0.25	0.13	0.18	0.44
26-Apr-2013		0.61	0.13	0.25	0.24	0.88	0.45	0.65	0.13	0.47
27-Apr-2013		0.25	0.24	0.54	0.85	0.13	0.25	0.45	0.47	0.16
28-Apr-2013						Sunday				
29-Apr-2013		0.66	0.58	0.49	0.82	0.13	0.11	0.54	0.16	0.47
30-Apr-2013		0.23	0.12	0.15	0.54	0.45	0.61	0.15	0.33	0.54
1-May-2013					Р	ublic Holiday				
2-May-2013		0.55	0.13	0.13	0.24	0.64	0.25	0.74	0.15	0.66
3-May-2013		0.36	0.13	0.33	0.14	0.52	0.28	0.61	0.45	0.22
4-May-2013		0.25	0.15	0.36	0.21	0.22	0.38	0.48	0.55	0.13
Remark										

U Prepared by Lo wing yue (Surveyor)

							(Bore	d Pile Walls / Pipe	e Pile Walls at E	3lock 50)
14/1						Monitoring	Check Pts.		Trigger Levels	
	1 個言	成建筑-	L程有限	公司		Womtornig	CHUCK FIS.	Alert level	Alarm level	Action level
	I I H	WEX-	T.III LI LIN			Vibration 1	Monitoring	2mm/s	2.5mm/s	3mm/s
Win W	vin Way	Construct	tion Compa	ny Ltd.		Vibration at la highest Stru		5.0mm/s	6.0mm/s	7.5mm/s
					Vibration	Record				
Project Title	: Central P	olice Station	Conservation	& Revitalizatio	on	Project No: W	P201	5-May-2013	to	18-May-2013
POIN	т	VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012	(Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Dat	e									
5-May-2013						Sunday				
6-May-2013		0.31	0.25	0.45	0.13	0.15	0.36	0.25	0.84	0.15
7-May-2013		0.13	0.26	0.51	0.66	0.34	0.29	0.15	0.88	0.54
8-May-2013		0.32	0.25	0.42	0.13	0.12	0.61	0.28	0.47	0.22
9-May-2013		0.25	0.16	0.24	0.55	0.62	0.18	0.46	0.58	0.64
10-May-2013		0.33	0.25	0.46	0.19	0.85	0.16	0.13	0.24	0.55
11-May-2013		0.56	0.52	0.25	0.56	0.47	0.26	0.15	0.13	0.11
12-May-2013						Sunday				
13-May-2013		0.23	0.16	0.25	0.44	0.58	0.31	0.59	0.81	0.13
14-May-2013		0.66	0.15	0.24	0.88	0.45	0.69	0.26	0.53	0.21
15-May-2013		0.26	0.19	0.55	0.14	0.64	0.25	0.58	0.36	0.13
16-May-2013		0.61	0.15	0.42	0.23	0.29	0.58	0.44	0.11	0.19
17-May-2013			-		ŀ	Public Holiday				
18-May-2013		0.34	0.16	0.26	0.67	0.63	0.45	0.28	0.25	0.35
Remark										

1d



Win Win Way Constru

							(Bore	d Pile Walls / Pipe	Pile Walls at B	lock 50)	
14/14	1					Monitoring	check Pts.		Trigger Levels		
VV VI	「柄言	试建筑 -	L程有限	公司		wionitoring	Check Pis.	Alert level	Alarm level	Action level	
	L LTAT H					Vibration	Monitoring	2mm/s	2.5mm/s	3mm/s	
Win W	in Way	Construct	tion Compa	ny Ltd.			Vibration at largest span of highest Structural level 5.0mm/s 6.0m				
					Vibration	Record					
Project Title:	Central I	Police Station	Conservation	& Revitalizatio	on	Project No: W	P201	19-May-2013	to	1-Jun-2013	
POINT		VM8-1	VM 11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3	
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	
19-Jun-2012 (Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37	
Surveying Date											
19-May-2013						Sunday					
20-May-2013		0.23	0.13	0,55	0.19	0.56	0.34	0.55	0.11	0.27	
21-May-2013		0.61	0.25	0.33	0.18	0.46	0.95	0.14	0.11	0.57	
22-May-2013		0.35	0.13	0.55	0.14	0.19	0.62	0.13	0.11	0.28	
23-May-2013		0.36	0.22	0.29	0.11	0.54	0.85	0.46	0.26	0.13	
24-May-2013		0.23	0.28	0.45	0.41	0.11	0.86	0.28	0.13	0.27	
25-May-2013		0.56	0.55	0.11	0.42	0.64	0.71	0.25	0.33	0.11	
26-May-2013				· · · · · · · · · · · · · · · · · · ·		Sunday					
27-May-2013		0.61	0.23	0.15	0.11	0.25	0.45	0.16	0.88	0.45	
28-May-2013		0.25	0.56	0.74	0.13	0.12	0.46	0.33	0.41	0.58	
29-May-2013		0.13	0.29	0.99	0.45	0.26	0.35	0.33	0.11	0.45	
30-May-2013		0.62	0.15	0.18	0.31	0.22	0.51	0.42	0.11	0.25	
31-May-2013		0.52	0.11	0.26	0.22	0.42	0.33	0.13	0.33	0.26	
1-Jun-2013		0.23	0.15	0.42	0.17	0.53	0.16	0.62	0.25	0.63	
Remark											

- Col

WWW 恆誠建築工程有限公司 Win Win Way Construction Company Ltd.

 (Bored Pile Walls / Pipe Pile Walls at Block 50)

 Trigger Levels

 Monitoring Check Pts.
 Alert level
 Alarm level
 Average

 Vibration Monitoring
 2mm/s
 2.5mm/s
 3mm/s

 Vibration at largest span of highest Structural level
 5.0mm/s
 6.0mm/s
 7.5mm/s

 Ibration Record
 2-Jun-2013
 to
 15-Jun-2013

 VM12-1
 VM12-2
 VM14-3
 VM17-1
 VM17-2
 VM17-3

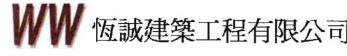
 mm/s
 mm/s
 mm/s
 mm/s
 mm/s
 mm/s

Project Title:	Central P	olice Station	Conservation	& Revitalization	on	Project No: W	P201	2-Jun-2013	to	15-Jun-2013
POINT	ſ	VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012	(Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date					27					
2-Jun-2013						Sunday				
3-Jun-2013		0.36	0.23	0.11	0.51	0.42	0.23	0.55	0.68	0.15
4-Jun-2013		0.23	0.13	0.53	0.62	0.11	0.45	0.82	0.21	0.13
5-Jun-2013		0.33	0.12	0.16	0.51	0.26	0.22	0.54	0.13	0.22
6-Jun-2013		0.36	0.23	0.15	0.14	0.55	0.82	0.46	0.25	0.11
7-Jun-2013		0.23	0.15	0.46	0.56	0.37	0.82	0.19	0.12	0.11
8-Jun-2013		0.62	0.15	0.44	0.31	0.15	0.18	0.82	0.54	0.33
9-Jun-2013						Sunday				
10-Jun-2013		0.23	0.11	0.14	0.85	0.24	0.55	0.16	0.27	0.33
11-Jun-2013		0.63	0.13	0.23	0.53	0.14	0.11	0.68	0.45	0.12
12-Jun-2013					Р	ublic Holiday				
13-Jun-2013		0.23	0.63	0.52	0.41	0.74	0.58	0.63	0.25	0.14
14-Jun-2013		0.25	0.44	0.62	0.53	0.15	0.55	0.95	0.48	0.86
15-Jun-2013		0.13	0.15	0.18	0.82	0.54	0.56	0.77	0.29	0.91

K

2013.05.19

Remark



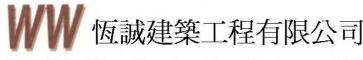
							(Bore	d Pile Walls / Pipe	Pile Walls at E	lock 50)
14/14						Monitoring	g Check Pts.		Trigger Levels	
	何情	就建筑	L程有限	公司		wioimorms	g Check Pls.	Alert level	Alarm level	Action level
	L TAT					Vibration	Monitoring	2mm/s	2.5mm/s	3mm/s
Win Wi	in Way	Construct	tion Compa	ny Ltd.			argest span of uctural level	5.0mm/s	6.0mm/s	7.5mm/s
				30	Vibration	Record				
Project Title:	Central I	Police Station	Conservation	& Revitalizatio	on	Project No: W	/P201	16-Jun-2013	to	29-Jun-2013
POINT		VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012 (9-Jun-2012 (Initial) 0.56 0.13 0.19 0.22				0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
16-Jun-2013						Sunday				
17-Jun-2013		0.32	0.12	0.15	0.14	0.56	0.66	0.32	0.25	0.88
18-Jun-2013		0.11	0.65	0.32	0.52	0.48	0.78	0.95	0.86	0.45
19-Jun-2013		0.33	0.65	0.15	0.42	0.28	0.71	0.92	0.55	0.62
20-Jun-2013		0.11	0.18	0.83	0.56	0.45	0.75	0.25	0.33	0.12
21-Jun-2013		0.11	0.18	0.23	0.56	0.45	0.85	0.77	0.56	0.25
22-Jun-2013		0.65	0.98	0.32	0.12	0.45	0.58	0.47	0.65	0.25
23-Jun-2013						Sunday				
24-Jun-2013		0.36	0.25	0.26	0.24	0.53	0.15	0.57	0.95	0.19
25-Jun-2013		0.63	0.25	0.41	0.47	0.85	0.69	0.25	0.45	0.21
26-Jun-2013		0.26	0.42	0.56	1.08	0.57	0.60	0.49	0.93	0.28
27-Jun-2013		0.49	0.65	0.37	0.27	0.48	0.95	0.24	0.50	0.50
28-Jun-2013		0.32	0.20	0.63	0.49	0.67	0.21	0.22	0.65	0.23
29-Jun-2013		0.19	0.22	0.31	0.51	0.21	0.41	0.70	0.20	0.65

N

WW 恆

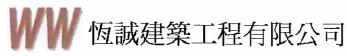
							(Bore	d Pile Walls / Pipe	Pile Walls at B	lock 50)	
14/14						Monitoring	check Pts.		Trigger Levels		
VV V	「「「「」	试建 笔 ⁻	L程有限	[公司]		INIOIIII0IIII		Alert level	Alarm level	Action level	
	<u> </u>	MALA-					Monitoring	2mm/s	2.5mm/s	3mm/s	
Win W	in Way	Construc	tion Compa	ny Ltd.			Vibration at largest span of highest Structural level5.0mm/s6.0r				
					Vibration	Record					
Project Title:	Central I	Police Station	Conservation	& Revitalization	on	Project No: W	P201	30-Jun- 2013	to	13-Jul-2013	
POINT		VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3	
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	
19-Jun-2012 (0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37	
Surveying Date											
30-Jun-2013						Sunday					
1-Jul-2013						Public Holiday					
2-Jul-2013		0.18	0.16	0.18	0.51	0.43	0.32	0.18	0.29	0.50	
3-Jul-2013		0.19	0.16	0.57	0.21	0.70	0.24	0.32	0.39	0.31	
4-Jul-2013		0.64	0.21	0.51	0.35	0.31	0.47	0.36	0.38	0.32	
5-Jul-2013		0.58	0.42	0.16	0.68	0.34	0.17	0.33	0.61	0.33	
6-Jul-2013		0.28	0.31	0.22	0.26	0.17	0.40	0.33	0.36	0.26	
7-Jul-2013	ļ					Sunday		*			
8-Jul-2013		0.42	0.31	0.20	0.17	0.19	0.85	0.17	0.31	0.25	
9-Jul-2013		0.25	0.38	0.39	0.37	0.29	0.20	0.17	0.23	0.62	
10-Jul-2013		0.32	0.29	0.21	0.20	0.26	0.19	0.25	0.24	0.19	
11-Jul-2013		0.25	0.45	0.23	0.16	0.26	0.21	0.30	0.15	0.19	
12-Jul-2013		0.18	0.84	0.25	0.86	0.17	0.16	0.18	0.82	0.62	
13-Jul-2013		0.58	0.50	0.68	0.61	0.70	0.79	0.67	0.20	0.40	
Remark						*					

Prepared by Lo wing yue (Surveyor)



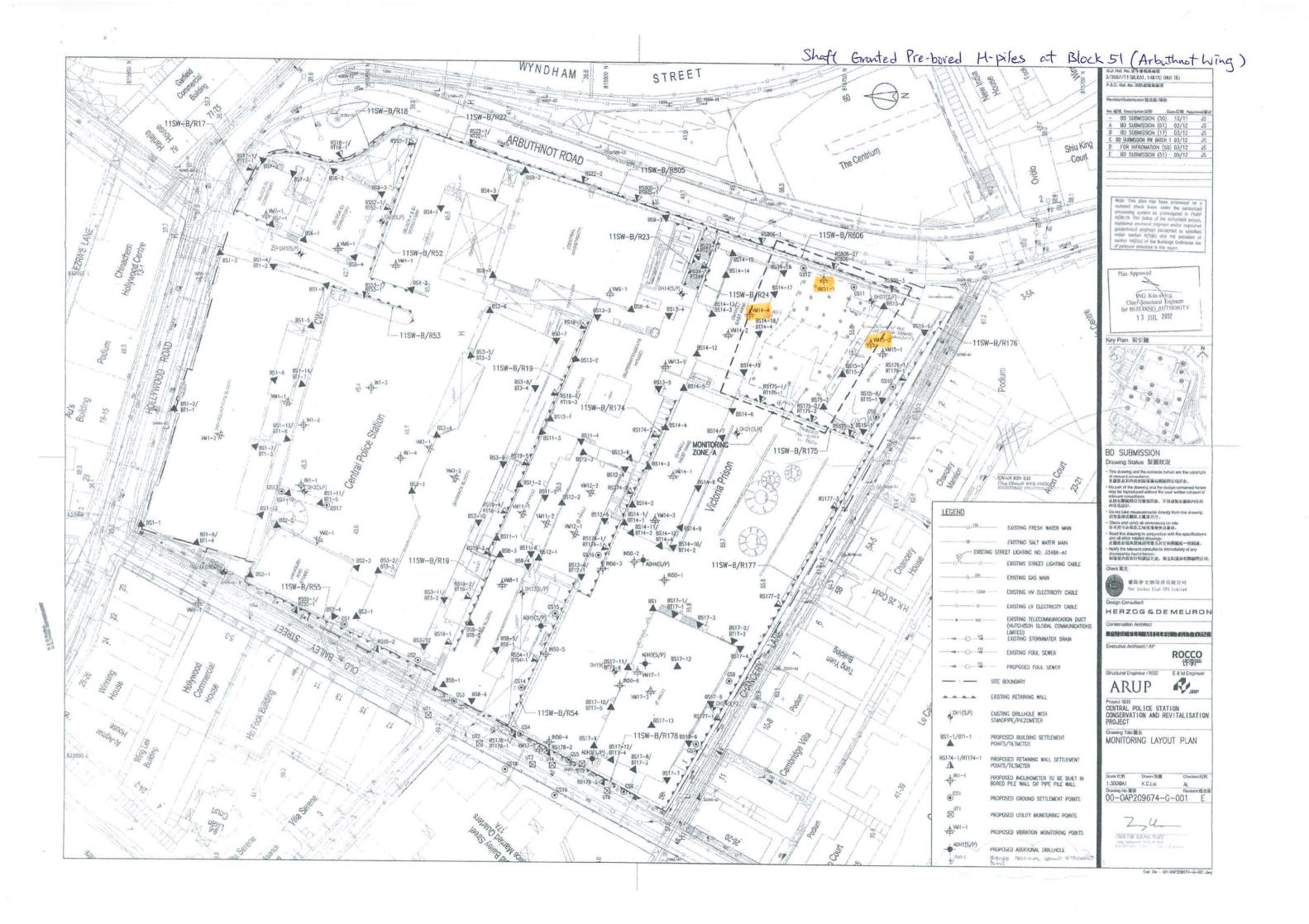
10/10/						Monitoring	g Check Pts.	Trigger Levels			
WW	恆氟建	* 统-	L程有限	八司		IVIOIIItoring	g Check Pls.	Alert level	Alarm level	Action level	
	匹吸短	-**	口注行网	[五 円]		Vibration	Monitoring	2mm/s	2.5mm/s	3mm/s	
Win Win V	Way Con	struct	tion Compa	ny Ltd.			argest span of uctural level	5.0mm/s 6.0mm/s		7.5mm/s	
					Vibration	Record					
Project Title: Cer	ntral Police	Station	Conservation	& Revitalization	on	Project No: W	/P201	14-Jul-2013	to	27-Jul-2013	
POINT	VM	18-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3	
DATE PD	D/(m) mi	m/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	
19-Jun-2012 (Initi	al) 0.	56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37	
Surveying Date											
14-Jul-2013			-	r		Sunday	•				
15-Jul-2013	0.	42	0.16	0.65	0.64	0.72	0.18	0.74	0.18	0.82	
16-Jul-2013	0.	67	0.45	0.73	0.16	0.98	0.37	0.73	0.16	0.19	
17-Jul-2013	0.	19	0.45	0.54	0.29	0.46	0.71	0.23	0.50	0.63	
18-Jul-2013	0.	60	0.36	0.44	0.42	0.40	0.21	0.66	0.65	0.91	
19-Jul-2013	0.	16	0.86	0.54	0.23	0.21	0.54	0.59	0.20	0.15	
20-Jul-2013	0.	52	0.50	0.72	0.60	0.81	0.61	0.41	0.41	0.66	
21-Jul-2013						Sunday					
22-Jul-2013	0.	67	0.51	0.61	0.19	0.29	0.16	0.19	0.17	0.16	
23-Jul-2013	0.	19	0.17	0.16	0.15	0.85	0.61	0.17	0.17	0.25	
24-Jul-2013	0.	61	0.15	0.58	0.14	0.13	0.19	0.42	0.52	0.30	
25-Jul-2013	0.	99	0.80	0.20	0.31	0.23	0.30	0.69	0.20	0.58	
26-Jul-2013	0.	78	0.72	0.69	0.55	0.20	0.33	0.24	0.24	0.30	
27-Jul-2013	0.	31	0.41	0.61	0.19	0.17	0.16	0.73	0.67	0.37	
Remark											

(Bored Pile Walls / Pipe Pile Walls at Block 50)



Win Win Way Co

							(Bore	d Pile Walls / Pipe	Pile Walls at E	lock 50)
10/10						Monitoring	g Check Pts.		Trigger Levels	
	/ 仮言	成建築	L程有限	公司		IVIOIII(OI III)	g Check Fis.	Alert level	Alarm level	Action level
						Vibration	Monitoring	2mm/s	2.5mm/s	3mm/s
Win W	in Way	Construct	tion Compa	ny Ltd.			argest span of uctural level	5.0mm/s	6.0mm/s	7.5mm/s
					Vibration	Record				
Project Title:	Central P	olice Station	Conservation	& Revitalization	on	Project No: W	/P201	28-Jul-2013	to	10-Aug-2013
POINT		VM8-1	VM 11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012	(Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
28-Jul-2013						Sunday				
29-Jul-2013		0.33	0.57	0.47	0.24	0.68	0.66	0.15	0.19	0.16
30-Jul-2013		0.76	0.21	0.17	0.18	0.55	0.78	0.34	0.22	0.24
31-Jul-2013		0.75	0.75	0.20	0.43	0.66	0.17	0.72	0.78	0.53
1-Aug-2013		0.22	0.58	0.23	0.27	0.77	0.28	0.28	0.26	0.47
2-Aug-2013		0.19	0.24	0.26	0.80	0.63	0.17	0.44	0.36	0.20
3-Aug-2013										
4-Aug-2013						Sunday		=3/		
5-Aug-2013										
6-Aug-2013										
7-Aug-2013										
8-Aug-2013										
9-Aug-2013										
10-Aug-2013										
Remark										



IA/IA/	1. T - 1	7+1.55	1	1				Trigger Levels	
VV VV	但誠	建染上	程有限公	、日		Monitoring Check Pts.	Alert level	Alarm level	Action level
** **						Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s
Win Win	Way C	onstructio	n Company	Ltd.	-				
				Vibr	ration Reco	rd			
Project Title:	: Central	Police Station	Conservation	& Revitalization	Project No:	WP201	28-Apr-2013	to	11-May-2013
POINT		VM14-4	VM15-2	VM51-1					
DATE	PD/(m)	mm/s	mm/s	mm/s					
03-Dec-2012	(Initial)	0.14	0.21	0.3					
28-Apr-2013					Sund	ay			
29-Apr-2013		0.13	0.16	0.27					
30-Apr-2013		0.25	0.45	0.55					
1-May-2013					Public He	oliday			
2-May-2013		0.15	0.55	0.24					
3-May-2013		0.13	0.46	0.33					
4-May-2013		0.13	0.18	0.22					
5-May-2013					Sund	ay			
6-May-2013		0.52	0.25	0.11					
7-May-2013		0.13	0.51	0.44					
8-May-2013		0.11	0.41	0.26					
9-May-2013		0.56	0.51	0.66					
10-May-2013		0.66	0.42	0.13					
11-May-2013		0.16	0.11	0.19					
Remarks									

Prepared by : Lo wing yue (Surveyor)

							(Sha	ft Grouted Pre-bore	ed H-piles at B	llock 51)
WW	相載	建筑工	程有限公	「一」		Monitoring	Chook Dta		Trigger Levels	
46.46	公司汉	使未上	住行收2	7.11]		Monitoring Check Pts.		Alert level	Alarm level	Action level
Win Win	Way C	onstruttio	n Company	- T-4-1		Vibrating	Monitoring	2mm/s	2.5mm/s	3mm/s
				Vib	ration	Record				
Project Title	: Central	Police Station	n Conservation	& Revitalization	Proje	ct No: WP201		12-May-2013	to	25-May-2013
POINT	2	VM14-4	VM15-2	VM51-1						
DATE	PD/(m)	mm/s	mm/s	mm/s						
03-Dec-2012	(Initial)	0.14	0.21	0.3						
12-May-2013						Sunday				
13-May-2013		0.19	0.24	0.27						
14-May-2013		0.28	0.52	0.49						
15-May-2013		0.29	0.55	0.41						
16-May-2013		0.29	0.46	0.71						
17-May-2013			· · · · ·		Pı	ablic Holiday				
18-May-2013		0.19	0.37	0.24						
19-May-2013			2			Sunday				
20-May-2013		0.29	0.61	0.18						
21-May-2013		0.54	0.28	0.13						
22-May-2013		0.13	0.28	0.64						
23-May-2013		0.11	0.55	0.28						
24-May-2013		0.26	0.61	0.77						
25-May-2013		0.15	0.54	0.19		·				
Remarks										

160

	,						(Sha	aft Grouted Pre-bore	ed H-piles at B	ock 51)
WW	柄딃	建筑工	程有限公	て言		Monitoring C	hools Dto		Trigger Levels	
** **	四副	使未上	但行收2	イ 日】		Monitoring C	neck Pts.	Alert level	Alarm level	Action level
Win Win	Wer C	onotratio	n Comison	. 1 23		Vibrating Mc	onitoring	2mm/s	2.5mm/s	3mm/s
уушт уушт	way c	onstructio	on Company	Lta.						
				Vibr	ation 1	Record				
Project Title:	Central	Police Station	n Conservation	& Revitalization	Projec	et No: WP201		26-May-2013	to	8-Jun-2013
				1				1 1		
POINT		VM14-4	VM15-2	VM51-1						
DATE	PD/(m)	mm/s	mm/s	mm/s						
03-Dec-2012 (0.14	0.21	0.3						
26-May-2013						Sunday				
27-May-2013		0.15	0.11	0.51						
28-May-2013		0.16	0.24	0.55						
29-May-2013		0.52	0.14	0.28						
30-May-2013		0.13	0.52	0.41						
31-May-2013		0.19	0.42	0.22						
1-Jun-2013		0.52	0.64	0.55						
2-Jun-2013						Sunday				
3-Jun-2013		0.55	0.11	0.26						
4-Jun-2013		0.26	0.69	0.22						
5-Jun-2013		0.11	0.48	0.42						
6-Jun-2013		0.18	0.11	0.13						
7-Jun-2013		0.13	0.55	0.61						
8-Jun-2013		0.15	0.25	0.54						
Remarks										

							(Sha	ift Grouted Pre-bore	ed H-piles at B	lock 51)
	油饼丁	程有限公	रज्ञ			Trigger Levels				
	使采上	任月1132	スリ	Monitoring Check Pts.		Alert level	Alarm level	Action level		
					Vibrating Monitoring		2mm/s	2.5mm/s	3mm/s	
	l way (n Company		ration 1	Record				
Project Title	: Central	Police Station	Conservation	& Revitalization	Projec	et No: WP201		9-Jun-2013	to	22-Jun-2013
POIN	ſ	VM14-4	VM15-2	VM51-1						
DATE	PD/(m)	mm/s	mm/s	mm/s						
03-Dec-2012	(Initial)	0.14	0.21	0.3						
9-Jun-2013						Sunday				
10-Jun-2013		0.16	0.52	0.42						
11-Jun-2013		0.15	0.55	0.40						
12-Jun-2013										
13-Jun-2013		0.12	0.75	0.45						
14-Jun-2013		0.13	0.14	0.62						
15-Jun-2013		0.25	0.64	0.25						
16-Jun-2013						Sunday				
17-Jun-2013		0.19	0.66	0.42						
18-Jun-2013		0.11	0.24	0.58						
19-Jun-2013		0.25	0.55	0.14						
20-Jun-2013		0.31	0.25	0.65						
21-Jun-2013		0.15	0.28	0.45						
22-Jun-2013		0.25	0.47	0.58						
Remarks										

160

						(Sha	aft Grouted Pre-bor	ed H-piles at B	ock 51)
	Monitoring Chook Dto		Trigger Levels						
	誠建築工	.住有限2	ンリ	Monitoring Check Pts.		Alert level	Alarm level	Action level	
				Vibrating Monitoring		2mm/s	2.5mm/s	3mm/s	
Win Win Wa	y Constructio	on Company		ration I	Record				
Project Title: Cer	tral Police Statio	n Conservation	& Revitalization	Projec	et No: WP201		23-Jun-2013	to	6-Jul-2013
POINT	VM14-4	VM15-2	VM51-1						
DATE PD/	m) mm/s	mm/s	mm/s						5 5
03-Dec-2012 (Initia	.) 0.14	0.21	0.3						-
23-Jun-2013		•	•		Sunday		+		
24-Jun-2013	0.13	0.56	0.62						
25-Jun-2013	0.12	0.26	0.65						9 27
26-Jun-2013	0.56	1.44	1.07		a				9
27-Jun-2013	1.53	0.15	0.19						
28-Jun-2013	0.22	0.61	0.22		- 				2
29-Jun-2013	0.19	0.23	0.18						2
30-Jun-2013	. Co	(u	na na		Sunday				
1-Jul-2013		-	No. No.	Pu	blic Holiday				
2-Jul-2013	0.77	0.31	0.23						
3-Jul-2013	0.54	0.56	0.69						-
4-Jul-2013	0.18	0.19	0.19						2
5-Jul-2013	0.63	0.19	0.17						
6-Jul-2013	0.29	0.16	0.23	5.1					
Remarks									

₩₩ 恆誠建築工程有限公司

(Shaft Grouted Pre-bored H-piles at Block 51)

Alert level

2mm/s

Trigger Levels

Alarm level

2.5mm/s

3mm/s

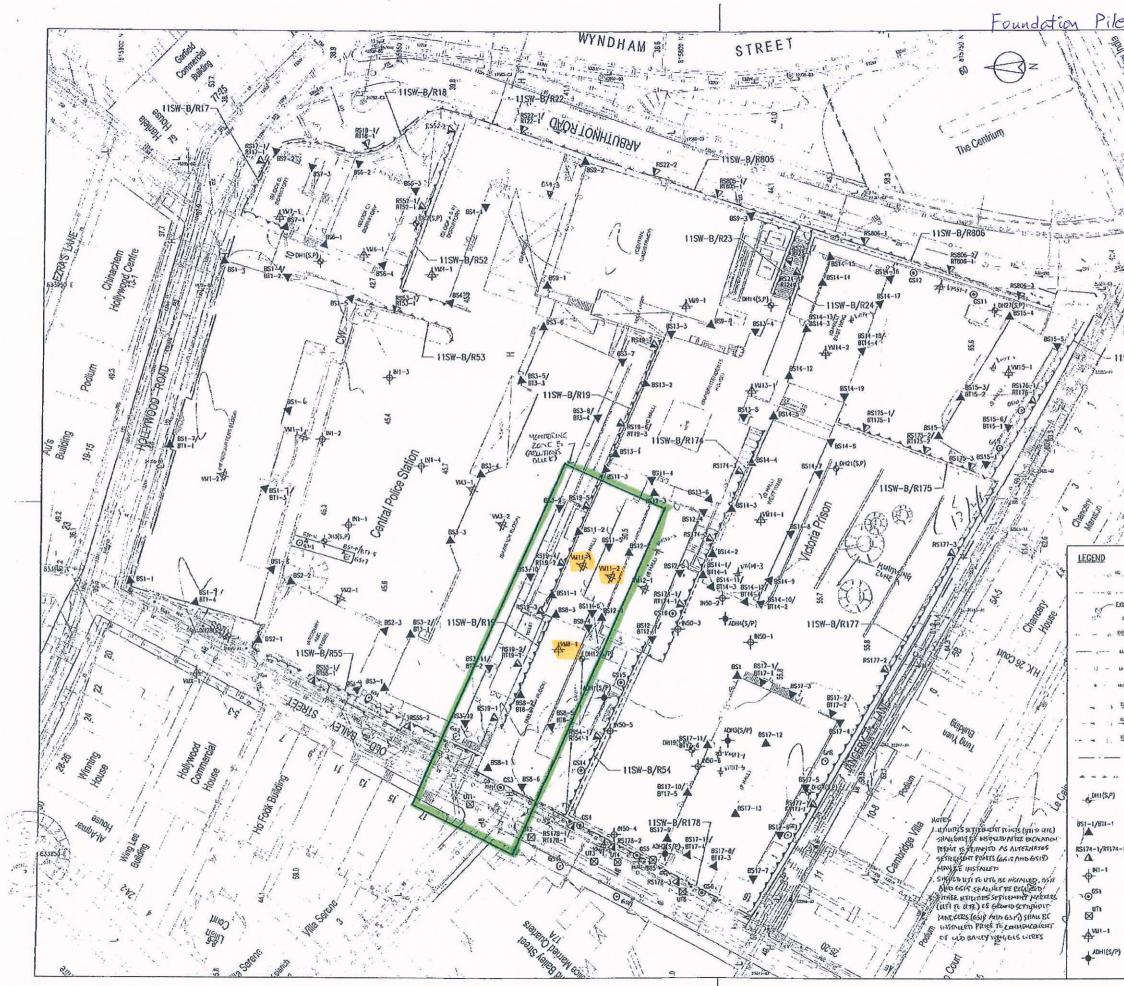
Win Win Way Construction Company Ltd.

					v torating tviolitoring	ZIIIII/S	2.3IIIII/S	SIIIII/S
				Vib	ration Record			
Project Title:	Central	Police Station	n Conservation	& Revitalization	Project No: WP201	7-Jul-2013	to	20-Jul-2013
POINT		VM14-4	VM15-2	VM51-1				
DATE	PD/(m)	mm/s	mm/s	mm/s				
03-Dec-2012 (Initial)	0.14	0.21	0.3				
7-Jul-2013					Sunday			
8-Jul-2013		0.93	0.35	0.48				
9-Jul-2013		0.20	0.72	0.20				
10-Jul-2013		0.27	0.27	0.27				
11-Jul-2013		0.99	0.18	0.17				
12-Jul-2013		0.21	0.21	0.18				
13-Jul-2013		0.17	0.68	0.80				
14-Jul-2013					Sunday			
15-Jul-2013		0.84	0.94	0.14				
16-Jul-2013		0.14	0.15	0.58				
17-Jul-2013		0.21	0.67	0.78				
18-Jul-2013		0.69	0.70	0.74				
19-Jul-2013		0.61	0.15	0.49				
20-Jul-2013		0.77	0.67	0.66				
Remarks								

Monitoring Check Pts.

Vibrating Monitoring

							(Sha	ft Grouted Pre-bor	ed H-piles at B	lock 51)
	7++	1日七四/	、 二	Manitarina (la al-Dta		Trigger Levels				
<i>VV VV</i>	也动	健柴上	程有限公	く可	Monitoring Check Pts.		Alert level	Alarm level	Action level	
					Vibrating	Monitoring	2mm/s	2.5mm/s	3mm/s	
win win	way C	onstructio	n Company	7 Ltd.						
				Vib	ration 1	Record				
Project Title: Central Police Station Conservation & RevitalizationProject No: WP20121-Jul-2013to3										3-Aug-2013
POINT VM14-4 VM15-2 VM51-1				VM51-1						
DATE	PD/(m)	mm/s	mm/s	mm/s						
03-Dec-2012	(Initial)	0.14	0.21	0.3						
21-Jul-2013						Sunday				
22-Jul-2013		0.53	0.25	0.27						
23-Jul-2013		0.69	0.72	0.19						
24-Jul-2013		0.51	0.61	0.59						
25-Jul-2013		0.77	0.21	0.20						
26-Jul-2013		0.42	0.63	0.28						
27-Jul-2013		0.40	0.18	0.78						
28-Jul-2013						Sunday				
29-Jul-2013		0.14	0.88	0.25						
30-Jul-2013		1.04	0.37	0.82						
31-Jul-2013		0.71	0.74	0.69						
1-Aug-2013		0.17	0.20	0.57						
2-Aug-2013		0.19	0.23	0.19						
3-Aug-2013		0.69	0.52	0.84						
Remarks										



Block & at Pile Works SO Rel IN SHEDKAS - ED SJEARSSION 12/11 29985 Shiu King Court 000 Plan Approved 9500 tis NG Kin-shing Chill Structural Engineer for BUILDING AUTHORITY 20 FEB 2012 2.54 Key Plan 常引四 - 115W-B/R176 BD SUBMISSION Drawing Status 製图狀況 - This many and co mains been at \$c o of sky of conducts 本文社及代史書的語言が知られて知知られたら。 EWAY KIN X 4월2021 NYDERE OF HURSDAY NYDERE No gan of the drawing and the design conserved here a style regradued when of the prior action constrt of relevant consultants 고요 (1010년(10) 218 월신문, 주중산문란군) 사망동 등 위장(1111) Do mi lake seaso asoch oreoty in Which TEELFERRI. Cod and only aldered are on site EXISTING FRESH WATER WAIN Rest Res drawny a convertion with the specific and a mixer when it drawnys RES 2300 Rt 21 R 21 R 21 E E E - IF 21. EXISTING SALT WATER WAN - EXISTING STREET LIGHTING NO. 33488-A1 normany builters Breachtricel, edigerents DOSTING STREET LIGHTING CABL len III RUAZORATIRAN Ibe Jacker Clab CIS Lielted EXISTING GAS MAIN DUSTING HY ELECTRICITY CABLE EXISTING LY ELECTROITY CABLE HERZOG GDE MEURON EDISTING TELECOMMUNICATION DUCT trefthy anima HUTCHISON GLOBAL COMMUNICATION LAMITED) EXISTING STORMWATUR DRAIN Vanders Arrindert \$ 25 ROCCO 许尔 14 EXISTING FOUR SEWER PROPOSED FOLK SEWER E & M Engine Suvaural Engineer / RSE R. JRP STE DOUNDARD ARUP DUSTING RETAINING WALL Project INEL CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT FXCSTING ORIHINGEF WITH STANDFIPE/PEZOWETER Drawing Takes MONITORING LAYOUT PLAN PROPOSED BURLOWC SETTLEMENT POINTS/TR_TWETER PROPOSED RETAINING WALL SETTLEMENT PORTS/TILTMETER Scale LER Draven S.E. PROPOSED INCLINOUETER TO BE FAINT IN TECTED FILE WALL OL IPIPE FILE WALL KCLd 1:3000A1 00-0AP209674-G-001 PROPOSED GROUND SETTLEMENT PORITS PROPOSED LITELY MONTORING PODITS PROPOSED VERATION MONITORING POINTS PROPOSED ADDITIONAL DEALHOLE Cost fire : 00-04/209571-G-001.049

								(Block 8 Fo	oundation)	
WW	∿िन्दिय	由物工作	いちれた			Monitorin	g Check Pts.		Trigger Levels	
A	区视频	里架 上1	主有限2	2 F]		Wielinterin	g Chick I to.	Alert level	Alarm level	nation level
Win Win V	Vay Co	nstruction	Company	Ltd.		Vibrating	Monitoring	2mm/s	2.5mm/s	3mm/s
				V	ibration R	ecord				
Project Title: C	Central Po	lice Station C	onservation &	Revitalization		Project No: W	VP201	21-Apr-2013	to	4-May-2013
POINT		VM8-1	VM11-1	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
23-Apr-2012 (I	initial)	0.212	0.087	0.116						
21-Apr-2013					r	Sunday	<u> </u>			
22-Apr-2013		0.26	0.35	0.13				_		
23-Apr-2013		0.31	0.13	0.55						
24-Apr-2013		0.23	0.21	0.15						
25-Apr-2013		0.36	0.13	0.09						
26-Apr-2013		0.61	0.13	0.25		ļ				
27-Apr-2013	+	0.25	0.24	0.54		I				I
28-Apr-2013					1	Sunday				
29-Apr-2013		0.66	0.58	0.49						
30-Apr-2013		0.23	0.12	0.15						
1-May-2013			r	1	Pu	blic Holiday	1			1
2-May-2013		0.55	0.13	0.13		ļ				
3-May-2013		0.36	0.13	0.33						
4-May-2013		0.25	0.15	0.36						

Prepared by : Lo wing yue (Surveyor)

							(Block 8	Foundation)	
WW	杨言忠存	₽ 4 年 17 1	呈有限公		Γ	Monitoring Check Pts		Trigger Leve	ls
44.44	区,现火	主宋1	王有四2	(口)		womoning check i is	Alert level	Alarm level	Action level
Win Win '	Way Cor	istruction	a Company	Ltd.		Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s
					tion Rec	ord			
roject Title:	Central Pol	ice Station C	onservation &	Revitalization	Pr	oject No: WP201	5-May-201	3 to	18-May-201
POINT		VM8-1	VM11-1	VM11-2					
DATE	PD/(m)	mm/s	mm/s	mm/s					
23-Apr-2012 (Initial)	0.212	0.087	0.116					
05-May-2013					Sı	Inday		2.	
6-May-2013		0.31	0.25	0.45					
7-May-2013		0.13	0.26	0.51					1
8-May-2013		0.32	0.25	0.42					
9-May-2013		0.25	0.16	0.24					
10-May-2013		0.33	0.25	0.46					
11-May-2013		0.56	0.52	0.25					
12-May-2013								-	
13-May-2013		0.23	0.16	0.25					
14-May-2013		0.66	0.15	0.24					
15-May-2013		0.26	0.19	0.55					
16-May-2013		0.61	0.15	0.42					
17-May-2013			in the second		Public	Holiday			
18-May-2013		0.34	0.16	0.26					

100

								(Block 8 F	oundation)	
14/14/	ⅈ୷୕ ଽ ୄ୵	<u> 中</u> 4 5 1	呈有限公			Monitoring	Check Pts		Trigger Levels	
AA AA	且誠观	里尖 上(至月182	く口		Monitoring	Check I LJ,	Alert level	Alarm level	Action level
Win Win V	Way Co	nstruction	ı Company	Ltd.		Vibrating I	Monitoring	2mm/s	2.5mm/s	3mm/s
					ation R		10001	10.14 - 2014		
Project Title: (Central Pol	lice Station C	conservation &	Revitalization		Project No: W	P201	19-May-2013	3 to	1-Jun-2013
POINT		VM8-1	VM11-1	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
23-Apr-2012 (Initial)	0.212	0.087	0.116						
19-May-201 3	+					46.72				
20-May-2013		0.23	0.13	0.55		10.72		1	T T	
21-May-2013		0.61	0.25	0.33						
22-May-2013		0.35	0.13	0.55						
23-May-2013		0.36	0.22	0.29						
24-May-2013		0.23	0.28	0.45						
25-May-2013		0.56	0.55	0.11						
26-May-2013						Sunday	ļ		1	
27-May-2013		0.61	0.23	0.15						
28-May-2013		0.25	0.56	0.74						
29-May-2013		0.13	0.29	0.99						
30-May-2013		0.62	0.15	0.18						
31-May-2013		0.52	0.11	0.26						
1-Jun-2013		0.23	0.15	0.42						

6C Prepared by : Lo wing yue (Surveyor)

								(Block 8 F	oundation)	
WW	小言最多	聿筑 丁1	呈有限公			Monitoring Cl	neck Pts.	/10.12 -	Trigger Levels	
								Alert level	Alarm level	Action level.
Win Win V	Way Co	nstruction	ı Company	Ltd.		Vibrating Mc	nitoring	2mm/s	2.5mm/s	3mm/s
					tion R					
Project Title: (Central Po	lice Station C	onservation &	Revitalization	_	Project No: WP2	201	2-Jun-2013	3 to	15-Jun-201
POINT		VM8-1	VM11-1	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
23-Apr-2012 (Initial)	0.212	0.087	0.116						
02-Jun-2013	+					Sunday	12			
3-Jun-2013		0.36	0.23	0.11		Sunday			T T	
4-Jun-2013		0.23	0.13	0.53					1	
5-Jun-2013		0.33	0.12	0.16					+	
6-Jun-2013		0.36	0.23	0.15					++	
7-Jun-2013		0.23	0.15	0.46						
8-Jun-2013		0.62	0.15	0.44						
9-Jun-2013						Sunday			<u> </u>	
10-Jun-2013		0.23	0.11	0.14						
11-Jun-2013		0.63	0.13	0.23						
12-Jun-2013	_				Pı	ablic Holiday				
13-Jun-2013		0.23	0.63	0.52						
14-Jun-2013		0.25	0.44	0.62						
15-Jun-2013	15-Jun-2013 0.13 0.15 0.18									

Prepared by : Lo wing yue (Surveyor)

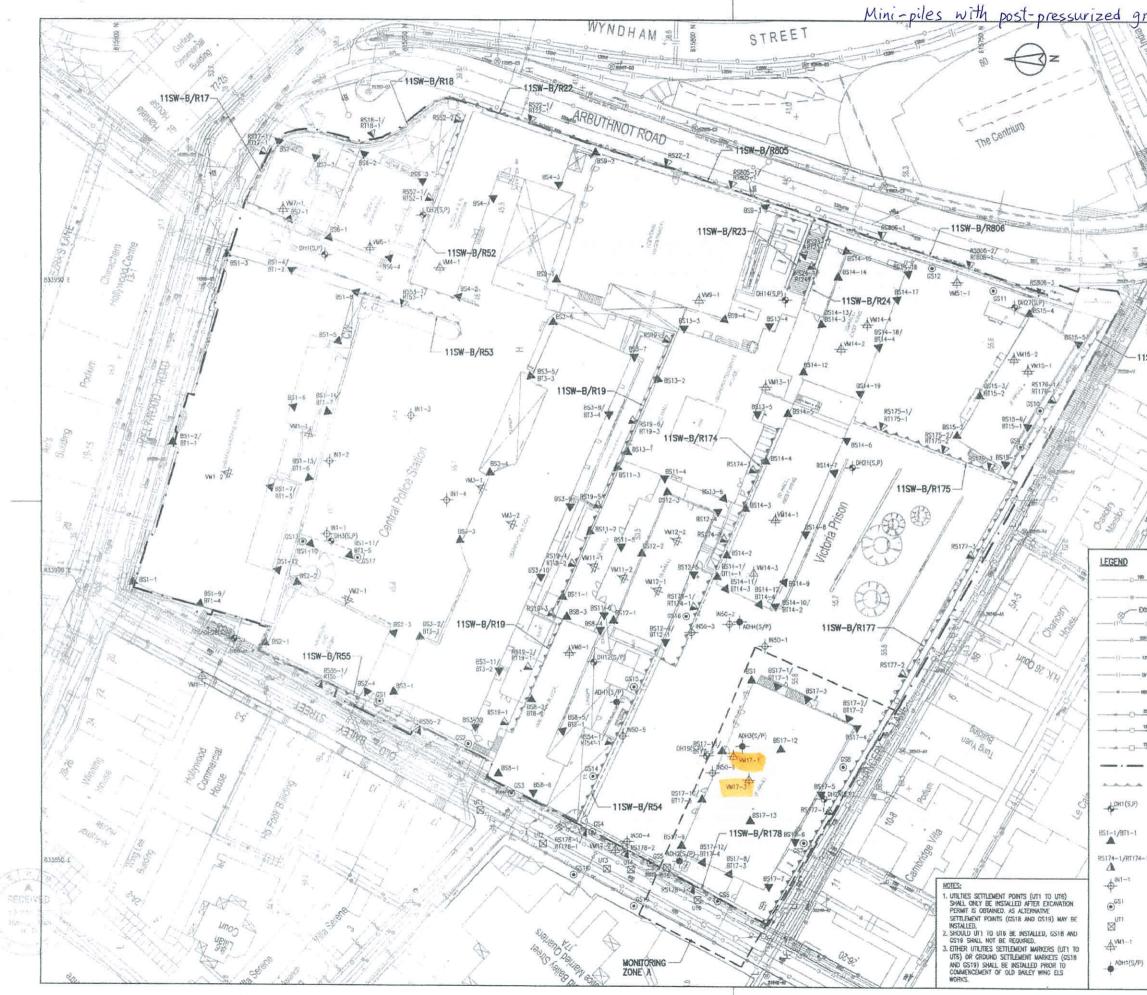
								(Block 8 Fo	oundation)	
WW 🖄	निक्ति क	事物了1				Monitorir	1g Check Pts.		Trigger Level	S
						Womon	ig check I is.	Alert level	Alarm level	Action level
Win Win Wa	ıy Coı	nstruction	ı Company	Ltd.		Vibrating	g Monitoring	2mm/s	2.5mm/s	3mm/s
				Vibr	ation F	Record				
Project Title: Cen	tral Pol	ice Station C	onservation &	Revitalization		Project No: V	WP201	16-Jun-2013	to	29-Jun-20
POINT		VM8-1	VM 11-1	VM11-2						
DATE P	'D/(m)	mm/s	mm/s	mm/s						
23-Apr-2012 (Initi	al)	0.212	0.087	0.116						
16-Jun-2013						Sunday				
17-Jun-2013		0.32	0.12	0.15						
18-Jun-2013		0.11	0.65	0.32						
19-Jun-2013		0.33	0.65	0.15						
20-Jun-2013		0.11	0.18	0.83						
21-Jun-2013		0.11	0.18	0.23						
22-Jun-2013		0.65	0.98	0.32						
23-Jun-2013								······································		
24-Jun-2013		0.36	0.25	0.26						
25-Jun-2013		0.63	0.25	0.41						
26-Jun-2013		0.26	0.42	0.56						
27-Jun-2013		0.49	0.65	0.37						
28-Jun-2013		0.32	0.20	0.63						
29-Jun-2013		0.19	0.22	0.31						

	仁利	建築	有限 1.structi	公司							1				Trigger Levels	
	Yan L	lee Coi	ıstructi	on Co.,	Ltd.						1	Monitoring	check Pts.	Alert level	Alarm level	ALL DAY OF A
	-											Vibrating	Monitoring	2mm/s	2.5mm/s	3mm/s
							bratior		rd							
Project Title:	Central Poli	ce Station (Conservation	& Revitaliz	ation	Projec	t No: W	P203		Date: 30)-Jun-201	3 To 13-J	lul-2013			
POIN	Т	VM8-1	VM11-1	VM11-2												
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
23-Apr-12	(Initial)	0.212	0.087	0.116												
30-Jun-2013								Sund	lay	· · · · ·						
1-Jul-2013								Public H	loliday							
2-Jul-2013		0.18	0.16	0.18												
3-Jul-2013		0.19	0.16	0.57		·										
4-Jul-2013		0.64	0.21	0.51												
5-Jul-2013		0.58	0,42	0.16												
6-Jul-2013		0.28	0.31	0.22												
7-Jul-2013								Sunc	lay							
8-Jul-2013		0.42	0.31	0.20												
9-Jul-2013		0.25	0.38	0.39												
10-Jul-2013		0.32	0.29	0.21												
11-Jul-2013		0.25	0.45	0.23												
12-Jul-2013		0.18	0.84	0.25												
13-Jul-2013		0.58	0.50	0.68												

清 Prepared by : Cheung Wai Ching

								(Block 8 F	oundation)	
14/14/	(고 카운)	中华 丁 1	呈有限公	र चा		Monitoring	check Pts.		Trigger Level	S
AA AA	且或效	里榮——1	至月1122	く口		Womtoring	, CHECK I to.	Alert level	Alarm level	Action level
Win Win V	Vay Co	nstructior	n Company	Ltd.		Vibrating	Monitoring	2mm/s	2.5mm/s	3mm/s
							argest span of uctural level	5.0mm/s	6.0mm/s	7.5mm/s
					Vibration F	Record				
Project Title: C	Central Po	lice Station C	onservation &	Revitalizatio	n	Project No: W	P201	14-Jul-2013	3 to	27-Jul-2013
POINT		VM8-1	VM11-1	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
23-Apr-2012 (I	(nitial)	0.212	0.087	0.116						
14-Jul-2013						Sunday				
15-Jul-2013		0.42	0.16	0.65						
16-Jul-2013		0.67	0.45	0.73					1	
17-Jul-2013		0.19	0.45	0.54						
18-Jul-2013		0.60	0.36	0.44						
19-Jul-2013		0.16	0.86	0.54						
20-Jul-2013		0.52	0.50	0.72						
21-Jul-2013			•	-		-	-	•		
22-Jul-2013		0.67	0.51	0.61						
23-Jul-2013		0.19	0.17	0.16						
24-Jul-2013		0.61	0.15	0.58						
25-Jul-2013		0.99								
26-Jul-2013		0.78	0.72	0.69						
27-Jul-2013										

									(Block 8 F	oundation)	
	小石三七ス	事物工具	呈有限公	∖च		Γ	Monitoring	g Check Pts.		Trigger Level	S
AA AA	也誠英	王荣——1	主有限2	く口]			Wiointoring	S CHOCK I US.	Alert level	Alarm level	Action level
Win Win '	Way Co	nstruction	o Company	Ltd.				Monitoring	2mm/s	2.5mm/s	3mm/s
								argest span of uctural level	5.0mm/s	6.0mm/s	7.5mm/s
					Vibratic	on Re	cord				
Project Title:	Central Pol	ice Station C	onservation &	Revitalizatio	n	F	roject No: W	/P201	28-Jul-2013	to	10-Aug-2013
POINT		VM8-1	VM11-1	VM11-2							
DATE	PD/(m)	mm/s	mm/s	mm/s							
23-Apr-2012	(Initial)	0.212	0.087	0.116							
28-Jul-2013						5	Sunday				
29-Jul-2013		0.33	0.57	0.47			•				
30-Jul-2013		0.76	0.21	0.17							
31-Jul-2013		0.75	0.75	0.20							
1-Aug-2013											
2-Aug-2013											
3-Aug-2013											
4-Aug-2013						5	lunday				
5-Aug-2013											
6-Aug-2013											
7-Aug-2013											
8-Aug-2013											
9-Aug-2013											
10-Aug-2013											



Mini-piles with post-pressurized grout in CDG and steel shear H-piles at Block 1, D SUBMISSION RD SUGMISSION B BD SUSMISSION Shou King Calif 10-1 Plas Approved NG Kun-shing Chief Structural Engineer for BCILLINNG ALTCHORITO 1 9 MAR 2012 lay Plan 索引導 11SW-B/R176 BD SUBMISSION wing Blatux 對顯狀況 ゼロlisist Lonsilion。 主義法以外の内容現象体的指面明白1 remains optionants. 未加有機解約合同實動指數,手導度緊迫機械 出來或加利 的mit Like meansaments 的导致转动器系上重要的 Check and while a4 dimensions on sa 所有尺寸必須加工地領導者參加單核. EXISTING FRESH WATER MAD and an other related scoreigh 素羅是心思與現俗說何喜及其它介張講師一座認識。 EXISTING SALT WATER MAIN STREET LIGHTING NO. 33488-A1 EXISTING TRUES & BORNAN DUSTING STREET LIGHTING CABLE Chent @ 1 EXISTING GAS MAIN 唐馬會文物從直有關公司 Jovan Carl US Listin XUSTING HV ELECTRICITY CASEE EXISTING LY ELECTRICITY CABLE HERZOG&DEMEURON EXISTING TELECOMMUNICATION DUCT (HUTCHISON G OBAL COMMUNICATIONS LIMITED) EXISTING STORMWATER DRAIN ROCCO 许纳严 EXISTING FOUL SEWER PROPOSED FOLL SEWER 三古鮮王的 R. JRP STIE BOUNDAR ARUP EXISTING RETAINING WALL Project 251 CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT EXISTING DRILLHOLE WITH STANDPIPE/PIEZOMETER Drawing Title EA MONITORING LAYOUT PLAN PROPOSED BUILDING SETTLEMENT POINTS/TRUTMETER PROPOSED RETAINING WALL SETTLEMENT POINTS/TRUTMETER Chann 90 PROPOSED INCLINOMETER TO BE BUILT IN BORIED PILE WALL OR PIPE PILE WALL 1:300041 K.C.Lei 00-0AP209674-G-001 B PROPOSED GROUND SETTLEMENT POINTS PROPOSED UTILITY MONITORING POINTS PROPOSED VERATION MONITORING POINTS PROPOSED ADDITIONAL DRILLHOLE Cat Sis : 00-404P209674-G-601.dwg

								(Block 17 Found	dation Works)
14/14						Monitorin	g Check Pts.		Trigger Levels	
	「雨言	成建筑-	L程有限	公司		WIOIntorin	g Check Fis.	Alert level	Alarm level	Action level
	L.A. H	WER-	山王月祝	ムリ		Vibration	Monitoring	2mm/s	2.5mm/s	3mm/s
Win Wi	in Way	Construct	ion Compar	ny Ltd.			largest span of ructural level	5.0mm/s	6.0mm/s	7.5mm/s
				Vib	ration	Record				
Project Title:	Central F	Police Station	Conservation &	& Revitalization		Project No: W	VP201	28-Apr-2013	to	11-May-201
POINT		VM17-1	VM17-3							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 (Initial)	0.13	0.37							
Surveying Date										
28-Apr-2013						Sunday				
29-Apr-2013		0.54	0.47							
30-Apr-2013		0.15	0.54							
1-May-2013					Р	ublic Holiday				
2-May-2013		0.74	0.66							
3-May-2013		0.61	0.22							
4-May-2013		0.48	0.13						11 Lawren	
5-May-2013		1.1				Sunday				
6-May-2013		0.25	0.15							
7-May-2013		0.15	0.54							
8-May-2013		0.28	0.22							
9-May-2013		0.46	0.64							
10-May-2013		0.13	0.55							
11-May-2013		0.15	0.11							
Remark										

Prepared by :Lo wing yue (Surveyor)

Win Wi

.

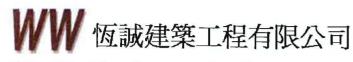
								(Block 17 Four	ndation Works)
14/14						Monitorin	g Check Pts.		Trigger Levels	
VVV	/ 恆	 就建築	L程有限	1公司			g Check Fis.	Alert level	Alarm level	Action level
AC. 31						Vibration	Monitoring	2mm/s	2.5mm/s	3mm/s
Win W	in Way	Construct	tion Compa	ny Ltd.		1	argest span of uctural level	5.0mm/s	6.0mm/s	7.5mm/s
				V	Vibration	Record				
Project Title:	Central	Police Station	Conservation	& Revitalization	1	Project No: W	/P201	12-May-2013	to	25-May-2013
POINI		VM17-1	VM17-3							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012	(Initial)	0.13	0.37							
Surveying Date										
12-May-2013						Sunday				
13-May-2013		0.59	0.13							
14-May-2013		0.26	0.21							
15-May-2013		0.58	0.13							
16-May-2013		0.44	0.19							
17-May-2013					Pı	blic Holiday				
18-May-2013		0.28	0.35							
19-May-2013						Sunday				
20-May-2013		0.55	0.27							
21-May-2013		0.14	0.57							
22-May-2013		0.13	0.28							
23-May-2013		0.46	0.13							
24-May-2013		0.28	0.27							
25-May-2013		0.25	0.11							
Remark										

K

WW 恆

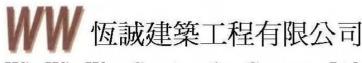
								(Block 17 Four	ndation Works)
14/14						Monitoring	Chaole Dto		Trigger Levels	
VVV	/ 恆	試建筑	L程有限	公司		Monitoring	Check Pts.	Alert level	Alarm level	Action level
1987. 1988. 1988. 1988.						Vibration N	Aonitoring	2mm/s	2.5mm/s	3mm/s
Win W	in Way	Construct	tion Compa	ny Ltd.		Vibration at la		5.0mm/s	6.0mm/s	7.5mm/s
			-	•		highest Stru	ctural level	5.01111/3	0.01111/3	7.51111/5
				Vibra	ation	Record				
Project Title:	Central	Police Station	Conservation	& Revitalization		Project No: W	P201	26-May-2013	to	8-Jun-2013
			1		2			T T		
POINT	·	VM17-1	VM17-3							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012	(Initial)	0.13	0.37	100						
Surveying Date						105	¥			
26-May-2013				· · · · · · · · · · · · · · · · · · ·		Sunday				
27-May-2013		0.16	0.45							
28-May-2013		0.33	0.58							
29-May-2013		0.33	0.45							
30-May-2013		0.42	0.25							
31-May-2013		0.13	0.26							
1-Jun-2013		0.62	0.63							
2-Jun-2013						Sunday		-II		
3-Jun-2013		0.55	0.15							
4-Jun-2013		0.82	0.13							
5-Jun-2013		0.54	0.22							
6-Jun-2013		0.46	0.11							
7-Jun-2013		0.19	0.11							
8-Jun-2013		0.82	0.33							
D										

60



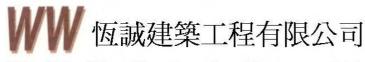
Win Win Way Con

								(Block 17 Foun	dation Works)
14/14						Monitorin	g Check Pts.		Trigger Levels	
	/ 恆	试建 築-	L程有限	[公司			g Check Fis.	Alert level	Alarm level	Action lesel
						Vibration	Monitoring	2mm/s	2.5mm/s	3mm/s
Win W	in Way	Construct	tion Compa	ny Ltd.			argest span of uctural level	5.0mm/s	6.0mm/s	7.5mm/s
				Vibra	ation	Record				
Project Title:	Central I	Police Station	Conservation	& Revitalization		Project No: W	/P201	9-Jun-2013	to	22-Jun-2013
POINT		VM17-1	VM17-3							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 ((Initial)	0.13	0.37							
Surveying Date										
9-Jun-2013						Sunday				
10-Jun-2013		0.16	0.33							
11-Jun-2013		0.68	0.12							
12-Jun-2013						Public Holiday				
13-Jun-2013		0.63	0.14							
14-Jun-2013		0.95	0.86							
15-Jun-2013		0.77	0.91							
16-Jun-2013						Sunday				
17-Jun-2013		0.32	0.88							
18-Jun-2013		0.95	0.45							
19-Jun-2013		0.92	0.62							
20-Jun-2013		0.25	0.12							
21-Jun-2013		0.77	0.25							
22-Jun-2013		0.47	0.25							
Remark										



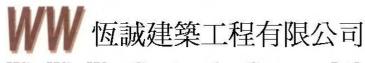
			1975	(Discient roal		,		
10/10/			Monitoring Check Pts.		Trigger Levels			
₩₩ 恆誠建築	[丁积右阻/	「一方」	Womtoning Check Pis.	Alert level	Alarm level	Action level		
山吹生未	:二/王/日/仪/	A ⊢]	Vibration Monitoring	2mm/s	2.5mm/s	3mm/s		
Win Win Way Constru	iction Company	z Ltd.	Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s		
		Vibration	Record					
Project Title: Central Police Stat	ion Conservation &	Revitalization	Project No: WP201	23-Jun-2013	to	6-Jul-2013		
POINT VM17-1	VM17-3							
DATE PD/(m) mm/s	mm/s	р. 	, , , , , , , , , , , , , , , , , , , ,		Å.			
19-Jun-2012 (Initial) 0.13	0.37							
Surveying Date					·			
23-Jun-2013			Sunday					
24-Jun-2013 0.57	0.19							
25-Jun-2013 0.25	0.21							
26-Jun-2013 0.49	0.28							
27-Jun-2013 0.24	0.50							
28-Jun-2013 0.22	0.23							
29-Jun-2013 0.70	0.65	5						
30-Jun-2013			Sunday					
1-Jul-2013		ŕ	Public Holiday					
2-Jul-2013 0.18	0.50							
3-Jul-2013 0.32	0.31							
4-Jul-2013 0.36	0.32							
5-Jul-2013 0.33	0.33							
6-Jul-2013 0.33	0.26							
Remark								

(Block 17 Foundation Works)



)
10/10/				Monitoring	g Check Pts.		Trigger Levels	
WW	恆誠建築	丁积右阴	目八司	IVIOIIItOTIII	g CHECK FIS.	Alert level	Alarm level	Action level
	也吸足未	二小王门子门	KД HJ	Vibration	Monitoring	2mm/s	2.5mm/s	3mm/s
Win Win V	Way Constru	ction Compa	nny Ltd.		argest span of uctural level	5.0mm/s	6.0mm/s	7.5mm/s
			Vibra	tion Record				
Project Title: Cer	ntral Police Stati	on Conservation	& Revitalization	Project No: W	/P201	7-Jul-2013	to	20-Jul-2013
POINT	VM17-1	VM17-3						
DATE PD	/(m) mm/s	mm/s						
19-Jun-2012 (Initia	al) 0.13	0.37						
Surveying Date								
7-Jul-2013		•	•	Sunday				
8-Jul-2013	0.17	0.25						
9-Jul-2013	0.17	0.62						
10-Jul-2013	0.25	0.19						
11-Jul-2013	0.30	0.19						
12-Jul-2013	0.18	0.62						
13-Jul-2013	0.67	0.40						
14-Jul-2013				Sunday				
15-Jul-2013	0.74	0.82						
16-Jul-2013	0.73	0.19						
17-Jul-2013	0.23	0.63						
18-Jul-2013	0.66	0.91						
19-Jul-2013	0.59	0.15						
20-Jul-2013	0.41	0.66						
Remark								

(Block 17 Foundation Works)



							(Block 17 Four	dation Works)
					Manitari	na Chaola Dta		Trigger Levels	
	₩ / /雨	试建筑-	L程有限	1八司	Monitori	ng Check Pts.	Alert level	Alarm level	Action level
	👗 📈	吸生未-	口王日的		Vibratio	Vibration Monitoring		2.5mm/s	3mm/s
Win W	'in Way	Construct	tion Compa	ny Ltd.		tt largest span of Structural level	5.0mm/s	6.0mm/s	7.5mm/s
				Vibrat	ion Record				
Project Title:	Central	Police Station	Conservation	& Revitalization	Project No:	WP201	21-Jul-2013	to	3-Aug-2013
POIN	r I	VM17-1	VM17-3						
DATE	PD/(m)	mm/s	mm/s						
19-Jun-2012	(Initial)	0.13	0.37						
Surveying Date	e								
21-Jul-2013				•	Sunday		•		
22-Jul-2013		0.19	0.16						
23-Jul-2013		0.17	0.25						
24-Jul-2013		0.42	0.30						
25-Jul-2013		0.69	0.58						
26-Jul-2013		0.24	0.30						
27-Jul-2013		0.73	0.37						
28-Jul-2013					Sunday				
29-Jul-2013		0.17	0.25						
30-Jul-2013		0.42	0.30						
31-Jul-2013		0.69	0.58						
1-Aug-2013		0.66	0.91						
2-Aug-2013		0.59	0.15						
3-Aug-2013		0.41	0.66						
Remark									



Locations for Tr	rial Pile near Block 17
PLACE NIN	B.D. Ref. No. 超学習指案编辑 F.S.D. Ref. No. 消防废相实编弦
11SW-B/A68	Revision/Submission 修改版/複批
11.5W-04100	No.展団 Detarption 説明 Date 日期 Approved 客注 - BD SUBMISSION 07/11 JS
1997 Sec. 1	A TENDER DRAWING 08/11 JS B TENDER ADDENDJM 09/11 JS
Shiu King	C BD RE-SUBWISSION 09/11 JS
Gourt	
Ovidic	
2 0 8 58	
The state of the s	Phin Approved
1040 00 100 500 000	Z
10 10 000000000000000000000000000000000	NG Kig-shing Chief Shuthural Engineer for BUILDING AUTHORITY
A A	1 7 NOV 2011
€ 2241C/ P17	L
uite .	
a 1 22410/1	
· -Φ ^{all} · ····	Key Plan 索引圖
-	Salt - Jase
Doug 22410/HLA	A STREET
22410/H13A 22410/H13B, 224*0/1 22410/H13B, 224*0/1 22410/H18 224*0/1 22410/H18 224*0/1	ALL THE REAL
22410/H#8 114 2241	and share
	EABLES ()
EXISTING BOREHCLE (DONE BY OTHERS)	BD SUBMISSION
EXISTING TRUL PIT (DONE BY OTHERS)	Drawing Status 製圖状況 - This drawing and the contents herein are the copyinght
21 EXISTING COREHOLE (DONE BY OTHERS)	of relevant consultants. 本圖紙及其內容的版極編有結晶的公司所有。 - No gart of the drawing and the design contained herein
EXISTING DRILLHOLE (DONE BY OAP)	may be reproduced without the prior written consent of relevant consultants. 未提育電腦的公司書面问意。不得複如此關範內任何 內容反定計。
EXISTING TRAL PIT (DONE BY OAP)	 Do not take measurements directly from this drawing 切り直接容量減上最优化。 Check and verify all climensions on site. 所有代育会項在工具线理論変更審任。
HI EXISTING HORIZONTIAL/INCLINED COREHOLE (DONE BY CAP)	所有尺寸30段在上2023年後至2023年4。 - Read this drawing in sonjunction with the specifications and all other related drawings. 此國版必須民業格說明書及其它有個圓服一件問題。
EXISTING VERTICAL COREHOLE (DONE BY CAP)	- Notify the reference consultants immediately of any discrepancy faund herein 如意現代表有任何調定之意。 走立刻通过有副範疇公司。
EXISTING INCLINED DRILLHOLE (DONE BY GAP)	Client 窦主 (
DENOTED STANDPIPE/PIEZOMETER	奇雅尊馬奇維吾倍 IE 基金 The Hong Kong Jockey Club Chariñies Trust
(DH1B, DH20 & DH27) SITE BOUNDARY	
TRIAL PILE (SHAFT-GROUTED PREBORED H-PILE)	Conservation Architect
TRIAL PILE (SHAFT-GROUTED MINI-PILE)	Architect / AP
PROPOSED BUILDING SETTLEMENT POINTS/ TILIMETER (BS1/BT1 TO BS7/BT7)	ROCCO 计字型
PROPOSED GROUND SETTLEMENT POINTS (GS1 TO GS8)	Structural Engineer / RSE E & M Engineer
PROPOSED VIBRATING MONITORING (VM1 TO VM12)	ARUP KI
(DURING PILE CONSTRUCTION ONLY)	Project % E CENTRAL POLICE STATION CONSERVATION AND REVITALISATION
EXISTING SALT WATER MAIN	Drawing Title 圖名
ISTING STREET LIGHTING NO. 33488-A1	LAYOUT PLAN FOR SHAFT GROUTED PILE FOUNDATION
EXISTING GAS MAIN EXISTING GAS MAIN	(TRIAL PILE & MONITORING)
JAN EXISTING IN ELECTRICITY CABLE	Scale I:29 Drawn 황國 Checked 10월 1:30C@(A1) K.C.Loi AL
V EXISTING LV ELECTRICITY CABLE	Drawing No. III F/005 C
EXISTING TELECOMMUNICATION DUCT (HUTCHISON GLOBAL COMMUNICATIONS (AUTED)	A P
LIMITED) EXISTING STORMWATER DRAN	1V
	RWAN KIN KEI Cher Fishwar MCR firke Migistemed structural engenera
PROPOSED FOUL SEWER	

.

14/14/	P	h	• • <i>≁</i> ⇔													
VY VY	也調	、建築	工程	有限公	公司							Monitoring	Check Pts.	Alert level	Trigger Level	S Action level
												Vibrating	Monitoring	5mm/s	6mm/s	7.5mm/s
	Win Win Way Construction Company Ltd. Vibration Record Vibration Record 10 May 2013															
Project Title	Project Title: Central Police Station Conservation & Revitalization Project No: WP201 19-May-2013 to 1-Jun-2013															
POINT	POINT VM1 VM2 VM3 VM4 VM5 VM6 VM7 VM8 VM9 VM10 VM11 VM12 VM13 VM14 VM15															
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
2-Apr-2012 (Initial)	0.58	0.18	0.18	0.66	1.4	0.25	1.14	0.65	0.28	0.22	0.18	0.22	0.18	0.22	0.22
28-Feb-2013		0.17	0.24	0.28	0.33	0.36	0.40	0.20	0.19	0.26	0.24	0.19	0.39	0.40	0.15	0.30
7-Mar-2013		0.30	0.25	0.10	0.20	0.29	0.16	0.11	0.26	0.37	0.34	0.11	0.20	0.18	0.16	0.21
14-Mar-2013		0.11	0.17	0.22	0.23	0.15	0.30	0.15	0.28	0.29	0.34	0.16	0.27	0.31	0.23	0.29
21-Mar-2013		0.18	0.22	0.23	0.29	0.40	0.37	0.34	0.18	0.26	0.50	0.26	0.39	0.41	0.28	0.30
27-Mar-2013		0.13	0.14	0.14	0.14	0.17	0.36	0.40	0.11	0.19	0.15	0.24	0.72	0.15	0.17	0.25
3-Apr-2013		0.29	0.30	0.14	0.15	0.40	0.20	0.19	0.26	0.24	0.22	0.13	0.09	0.13	0.23	0.29
10-Apr-2013		0.16	0.26	0.25	0.25	0.19	0.39	0.15	0.25	0.78	0.46	0.51	0.25	0.61	0.13	0.19
17-Apr-2013		0.25	0.39	0.20	0.56	0.35	0.43	0.50	0.56	0.35	0.26	0.30	0.30	0.26	0.36	0.25
24-Apr-2013		0.23	0.13	0.25	0.16	0.45	0.25	0.44	0.81	0.19	0.23	0.36	0.45	0.75	0.61	0.25
2-May-2013		0.14	0.28	0.23	0.29	0.30	0.14	0.36	0.19	0.17	0.28	0.15	0.14	0.28	0.13	0.22
9-May-2013		0.11	0.19	0.29	0.39	0.20	0.56	0.35	0.22	0.25	0.60	0.19	0.19	0.39	0.30	0.21
16-May-2013		0.56	0.35	0.13	0.09	0.17	0.14	0.40	0.37	0.17	0.40	0.30	0.25	0.37	0.28	0.34
23-May-2013		0.34	0.31	0.26	0.40	0.29	0.22	0.19	0.41	0.26	0.28	0.17	0.32	0.36	0.27	0.19
30-May-2013		0.30	0.28	0.16	0.18	0.26	0.33	0.31	0.27	0.28	0.42	0.25	0.33	0.18	0.26	0.24

C Prepared by : Lo wing yue (Surveyor)

Win W						ny Ltd		on Rea	cord				g Check Pts. Monitoring	Alert level 5mm/s	Trigger Leve Alarm level 6mm/s	ls Auton cvcl 7.5mm/s
Project Title:	Central P	olice Sta	tion Con	servation	& Revita	lization			Project 1	No: WP20)1	16-Ju	n-2013	to	29-Ju	n-2013
POINT		VM1	VM2	VM3	VM4	VM5	VM6	VM7	VM8	VM9	VM10	VM 11	VM12	VM13	VM14	VM15
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
2-Apr-2012 (I	nitial)	0.58	0.18	0.18	0.66	1.4	0.25	1.14	0.65	0.28	0.22	0.18	0.22	0.18	0.22	0.22
27-Mar-2013		0.13	0.14	0.14	0.14	0.17	0.36	0.40	0.11	0.19	0.15	0.24	0.72	0.15	0.17	0.25
3-Apr-2013		0.29	0.30	0.14	0.15	0.40	0.20	0.19	0.26	0.24	0.22	0.13	0.09	0.13	0.23	0.29
10-Apr-2013		0.16	0.26	0.25	0.25	0.19	0.39	0.15	0.25	0.78	0.46	0.51	0.25	0.61	0.13	0.19
17-Apr-2013	_	0.25	0.39	0.20	0.56	0.35	0.43	0.50	0.56	0.35	0.26	0.30	0.30	0.26	0.36	0.25
24-Apr-2013		0.23	0.13	0.25	0.16	0.45	0.25	0.44	0.81	0.19	0.23	0.36	0.45	0.75	0.61	0.25
2-May-2013		0.14	0.28	0.23	0.29	0.30	0.14	0.36	0.19	0.17	0.28	0.15	0.14	0.28	0.13	0.22
9-May-2013		0.11	0.19	0.29	0.39	0.20	0.56	0.35	0.22	0.25	0.60	0.19	0.19	0.39	0.30	0.21
16-May-2013		0.56	0.35	0.13	0.09	0.17	0.14	0.40	0.37	0.17	0.40	0.30	0.25	0.37	0.28	0.34
23-May-2013		0.34	0.31	0.26	0.40	0.29	0.22	0.19	0.41	0.26	0.28	0.17	0.32	0.36	0.27	0.19
30-May-2013		0.30	0.28	0.16	0.18	0.26	0.33	0.31	0.27	0.28	0.42	0.25	0.33	0.18	0.26	0.24
6-Jun-2013		0.25	0.19	0.39	0.15	0.19	0.17	0.28	0.15	0.14	0.40	0.37	0.17	0.40	0.30	0.33
13-Jun-2013		0.14	0.40	0.37	0.17	0.40	0.30	0.29	0.40	0.37	0.34	0.18	0.26	0.50	0.12	0.13
20-Jun-2013		0.29	0.34	0.57	0.41	0.16	0.33	0.28	0.24	0.35	0.40	0.19	0.13	0.44	0.32	0.20
27-Jun-2013		0.21	0.28	0.40	0.42	0.27	0.26	0.21	0.94	0.40	0.67	0.54	0.23	0.21	0.21	1.12

M

Prepared by : Lo wing yue (Surveyor)

Annex M

Records of Vibration Monitoring for Other Construction Works



14/14/	ŀ							(Block	、14)	
WW	相對	油筑 丁	程有限公	751		Monitoring Check	2 Dto		Trigger Levels	
AA AA	也顽	使采上	任月1137	イロ			к г із.	Alert level	Alarm level	Action level
Win Win	Wer C		- Company	TAJ		Vibrating Monito	ring	2mm/s	2.5mm/s	3mm/s
ууштуушт	way C	onstructio	n Company	Ltu.						
					Vibration	Record				
Project Title:	Central	Police Station	n Conservation	& Revitalizati	on Proje	ct No: WP201		21-Apr-2013	to	4-May-2013
POINT		VM14-1	VM14-2	VM14-3	VM14-4					
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s					
19-Nov-12 (Initial)	0.103	0.112	0.147	0.136					
21-Apr-2013						Sunday				•
22-Apr-2013		0.22	0.61	0.42	0.13					
23-Apr-2013		0.33	0.31	0.25	0.25					
24-Apr-2013		0.26	0.55	0.45	0.13					
25-Арг-2013		0.61	0.22	0.25	0.13					
26-Apr-2013		1.61	0.31	0.45	0.13					
27-Apr-2013		0.35	0.25	0.25	0.23					
28-Apr-2013						Sunday				
29-Apr-2013		0.26	0.35	0.11	0.13					
30-Арг-2013		0.32	0.62	0.61	0.25					
1-May-2013			4		Р	ublic Holiday				
2-May-2013		0.15	0.23	0.25	0.15					
3-May-2013		0.52	0.52	0.28	0.13					
4-May-2013		0.13	0.26	0.38	0.13					
Remarks										

100

.

al Prepared by : Lo wing yue (Surveyor)

Win Win Way Construction Company Ltd. Vibrating Monitoring 2nm/s 2.5mm/s 3mm/s Vibrating Monitoring 2nm/s 2.5mm/s 3mm/s Vibration Record Project Title: Central Police Station Conservation & Revitalization Project No: WP201 5-May-2013 to 18-May-201 POINT VM14-1 VM14-2 VM14-3 VM14-4 VM14-4 S-May-2013 to 18-May-201 DATE PD/(m) mm/s <	1A/1A/		and states of the	and the second second		1				
Win	VVVV	恆誠	建筑丁	积右限小	「一」		Monitoring Check Pts.			
Win Win Way Construction Company Ltd. Vibration Record Project Title: Central Police Station Conservation & Revitalization Project No: WP201 5-May-2013 to 18-May-2(1 POINT VM14-1 VM14-2 VM14-3 VM14-4 Image: Conservation of the second of the se		四风	世木——	生月1141	イーユ					Action level
Project Title: Central Police Station Conservation & Revitalization Project No: WP201 5-May-2013 10 18-May-201 POINT VM14-1 VM14-2 VM14-3 VM14-4 Image: Conservation & Revitalization Project No: WP201 5-May-2013 10 18-May-201 DATE PD/(m) mm/s mm/s mm/s mm/s Image: Conservation & Revitalization Image: Conservation & Revitalization Image: Conservation & Revitalization Image: Conservation & Revitalization 18-May-2013 Image: Conservation & Revitalization Image: Conse	Win Win	Way C	onstructio	n Company	Itd	l	Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s
Project Title: Central Police Station Conservation & Revitalization Project No: WP201 5-May-2013 to 18-May-201 POINT VM14-1 VM14-2 VM14-3 VM14-4 VM14-4 Image: Station Conservation & Revitalization Project No: WP201 5-May-2013 to 18-May-201 DATE PD/m) mm/s m/s m/s m/s m/s m/s m/s m/s	THE THE	rray C	onstructio	n company		T7'1 (' T				
POINT VM14-1 VM14-2 VM14-3 VM14-4 VM14-4 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th>Vibration F</th> <th>Record</th> <th></th> <th></th> <th></th>						Vibration F	Record			
DATE PD/(m) mm/s mm/s mm/s mm/s etc. point poi	Project Title:	Central I	Police Statior	Conservation	& Revitalizati	on Projec	t No: WP201	5-May-2013	to	18-May-2013
DATE PD/(m) mm/s mm/s mm/s mm/s etc. point poi	POINT		VIM14 1	VD414.0	VD414.2					
19-Nov-12 (Initial) 0.103 0.112 0.147 0.136 Image: Sunday 5-May-2013 0.66 0.15 0.36 0.52 Sunday 6-May-2013 0.66 0.15 0.36 0.52 Image: Sunday 7-May-2013 0.15 0.34 0.29 0.13 Image: Sunday Image: Sunday 8-May-2013 0.62 0.12 0.61 0.11 Image: Sunday Image: Sunday Image: Sunday 9-May-2013 0.62 0.12 0.61 0.11 Image: Sunday Image: Sunday Image: Sunday Image: Sunday Image: Sunday 9-May-2013 0.62 0.12 0.61 0.11 Image: Sunday	гощчт		V IVI 14-1	V IVI 14-2	V IVI14-3	VM14-4				
5-May-2013 Sunday 6-May-2013 0.66 0.15 0.36 0.52 Image: Constraint of the straint of	DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s				
6-May-2013 0.66 0.15 0.36 0.52 a a a a $7-May-2013$ 0.15 0.34 0.29 0.13 a a a a a $8-May-2013$ 0.62 0.12 0.61 0.11 a a a a a $9-May-2013$ 0.19 0.62 0.18 0.56 a a a a a $10-May-2013$ 0.33 0.85 0.16 0.66 a a a a a $11-May-2013$ 0.16 0.47 0.26 0.16 a a a a a $12-May-2013$ 0.16 0.47 0.26 0.16 a a a a a $14-May-2013$ 0.16 0.47 0.26 0.19 a a a a a $14-May-2013$ 0.22 0.28 0.31 0.19 a a a a a $15-May-2013$ 1.31 0.23 0.25 0.29 a a a a a $16-May-2013$ 0.36 0.33 0.58 0.29 a a a a a $17-May-2013$ a a a a a a a a a $17-May-2013$ a a a a a a a a a $17-May-2013$ a a a a a a a	19-Nov-12 (I	nitial)	0.103	0.112	0.147	0.136				
7-May-2013 0.15 0.34 0.29 0.13 0.13 0.11	5-May-2013						Sunday			
8-May-2013 0.62 0.12 0.61 0.11 <t< td=""><td>6-May-2013</td><td></td><td>0.66</td><td>0.15</td><td>0.36</td><td>0.52</td><td></td><td></td><td></td><td></td></t<>	6-May-2013		0.66	0.15	0.36	0.52				
9-May-2013 0.19 0.62 0.18 0.56 <td>7-May-2013</td> <td></td> <td>0.15</td> <td>0.34</td> <td>0.29</td> <td>0.13</td> <td></td> <td></td> <td></td> <td></td>	7-May-2013		0.15	0.34	0.29	0.13				
10-May-2013 0.33 0.85 0.16 0.66 Image: Constraint of the state of th	8-May-2013		0.62	0.12	0.61	0.11				
11-May-2013 0.16 0.47 0.26 0.16 Image: Constraint of the state of th	9-May-2013		0.19	0.62	0.18	0.56				
12-May-2013 Sunday 13-May-2013 0.22 0.28 0.31 0.19 Image: Constraint of the state of	10-May-2013		0.33	0.85	0.16	0.66			100	
13-May-2013 0.22 0.28 0.31 0.19 Image: Constraint of the second	11-May-2013		0.16	0.47	0.26	0.16				
14-May-2013 0.31 0.33 0.69 0.28 Image: Constraint of the state of th	12-May-2013						Sunday			
15-May-2013 1.31 0.23 0.25 0.29 Image: Constraint of the second sec	13-May-2013		0.22	0.28	0.31	0.19		and the second second		
16-May-2013 0.36 0.33 0.58 0.29 17-May-2013 Public Holiday	14-May-2013		0.31	0.33	0.69	0.28		and the second second		
17-May-2013 Public Holiday	15-May-2013		1.31	0.23	0.25	0.29				
	16-May-2013		0.36	0.33	0.58	0.29				
18-May-2013 1.81 0.24 0.45 0.19	17-May-2013					Pul	olic Holiday			
	18-May-2013		1.81	0.24	0.45	0.19				

Prepared by : Lo wing yue (Surveyor)

								(Block	:14)	
	板計	油 街 丁	程有限公	रच		Monitorino	Check Pts.		Trigger Levels	
	区副	使采上	作用收2	イロ]		Womonig	CHECK FIS.	Alert level	Alarm level	
			on Company			Vibrating	Monitoring	2mm/s	2.5mm/s	3mm/s
ууші ууші	way c		on Company	Lta.						
					Vibration	Record				
Project Title:	Central	Police Station	n Conservation	& Revitalizati	on Proje	ct No: WP201		19-May-2013	to	1-Jun-2013
POINT		VM14-1	VM14-2	VM14-3	VM14-4					
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s					1
19-Nov-12 (I	nitial)	0.103	0.112	0.147	0.136					
19-May-2013						Sunday				
20-May-2013		0.60	0.13	0.34	0.29					
21-May-2013		0.36	0.95	0.95	0.54					
22-May-2013		0.62	0.26	0.62	0.13					
23-May-2013		0.13	0.22	0.85	0.11					
24-May-2013		0.65	0.19	0.86	0.26	· · · · · · · · · · · · · · · · · · ·				
25-May-2013		0.33	0.23	0.71	0.15					
26-May-2013						Sunday				
27-May-2013		0.21	0.26	0.45	0.15					
28-May-2013		0.32	0.22	0.46	0.16					
29-May-2013		0.52	0.33	0.35	0.52					
30-May-2013		0.36	0.21	0.51	0.13					
31-May-2013		0.22	0.33	0.33	0.19					
1-Jun-2013		0.62	0.12	0.16	0.52					
Remarks										

10C

								(Block 14 Str	uctural A&A)
WW	恆誠	建筑工	程有限公	、司		Monitorin	g Check Pts.		Trigger Levels	
11.11	山泉	是未上	任日松	イトリ			g CHECK I IS.	Alert level	Alarm level	Action level
Win Win	Way	onstructio	on Company	- T +J		Vibrating	Monitoring	2mm/s	2.5mm/s	3mm/s
уу <u>ш</u> т ууш)	e vray C	onstructio	м сощрацу		Vibration	Record				
Project Title	: Central	Police Station	n Conservation	& Revitalizati	on Proie	ct No: WP201		2-Jun-2013	to	15-Jun-2013
		55	14		1.0)•			2 3411-2013	10	1 <i>3-</i> Juli-2013
POINT	r	VM14-1	VM14-2	VM14-3	VM14-4					
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	1				
19-Nov-12 (Initial)	0.103	0.112	0.147	0.136					
2-Jun-2013						Sunday				
3-Jun-2013		0.56	0.81	0.23	0.55					
4-Jun-2013		0.21	0.33	0.45	0.26					
5-Jun-2013		0.31	0.62	0.22	0.11					
6-Jun-2013		0.30	0.36	0.82	0.18					
7-Jun-2013		0.68	0.23	0.82	0.13					
8-Jun-2013		0.33	0.23	0.18	0.15					
9-Jun-2013						Sunday				
10-Jun-2013		0.39	0.23	0.55	0.16					
11-Jun-2013		0.65	0.22	0.11	0.15					
12-Jun-2013					Pi	ublic Holiday				
13-Jun-2013		0.33	0.33	0.58	0.12					
14-Jun-2013		0.61	0.22	0.55	0.13					
15-Jun-2013		0.32	0.31	0.56	0.25					
Remarks										

C

14/14	,						(Block 14 Stru	uctural A&A)
WW	恆訊	建筑 工	程有限公	てヨ		Monitoring Check Pts.		Trigger Levels	
46.46	区则	使未上	任何收2	7.11			Alert level	Alarm level	Action level.
Win Win	Way	onstructio	n Company	T 4-1		Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s
уушт уушт	. way C	onstructio	on Company						
					Vibration	Record			
Project Title	: Central	Police Station	n Conservation	& Revitalizati	on Proje	ct No: WP201	16-Jun-2013	to	29-Jun-2013
POINT		VM14-1	VM14-2	VM14-3	VM14-4				
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s				
19-Nov-12 (0.103	0.112	0.147	0.136				
16-Jun-2013						Sunday			
17-Jun-2013		0.33	0.22	0.66	0.19				
18-Jun-2013		0.22	0.56	0.78	0.11				
19-Jun-2013		0.53	0.33	0.71	0.25				
20-Jun-2013		0.36	0.22	0.75	0.31				
21-Jun-2013		0.62	0.33	0.85	0.15				
22-Jun-2013		0.75	0.36	0.58	0.25				
23-Jun-2013						Sunday			
24-Jun-2013		0.32	0.21	0.15	0.13				
25-Jun-2013		0.11	0.21	0.69	0.12				
26-Jun-2013		0.33	0.59	0.60	0.56				
27-Jun-2013		0.34	0.28	0.95	1.53				
28-Jun-2013		0.40	0.22	0.21	0.22				
29-Jun-2013		0.41	0.23	0.41	0.19				
Remarks									

r

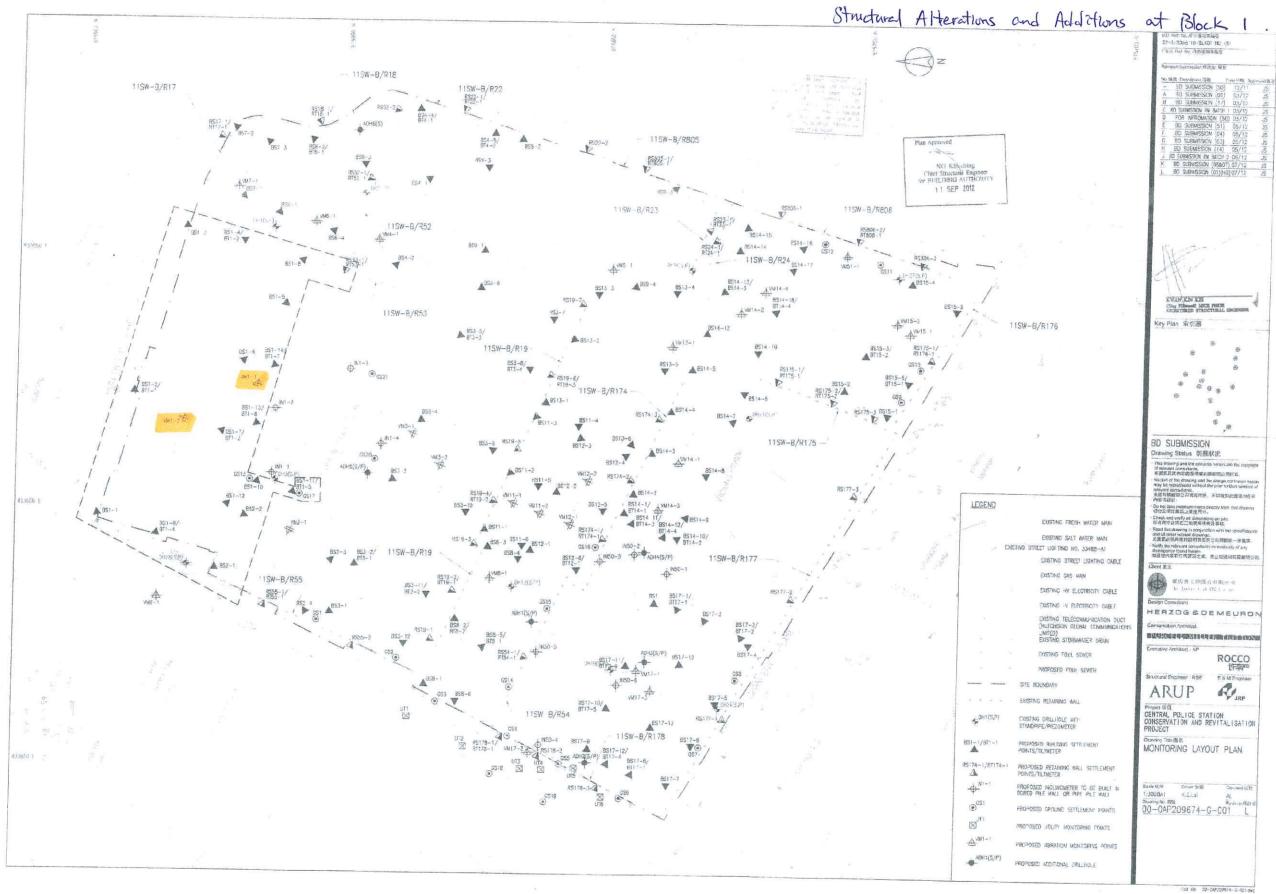
U Prepared by : Lo wing yue (Surveyor)

14/14	,						2	(Block 14 Stru	uctural A&A	
WW	恆氟	建筑工	程有限公	「三」		Monitoring Chee	alc Dto		Trigger Levels	
** **	凹则	定未上	住日收2	7.11			CK FIS.	Alert level	Alarm level	Aution level
Win Win	Way	onstructio	n Company	- T -4-3		Vibrating Monit	oring	2mm/s	2.5mm/s	3mm/s
					Vibration					
Project Title	: Central	Police Station	n Conservation	& Revitalizati	on Proje	ct No: WP201		30-Jun-2013	to	13-Jul-2013
POINT		VM14-1	VM14-2	VM14-3	VM14-4					
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s			++		7
19-Nov-12 (Initial)	0.103	0.112	0.147	0.136					
30-Jun-2013						Sunday		11		
1-Jul-2013					P	ublic Holiday				
2-Jul-2013		0.35	0.29	0.32	0.77			T		
3-Jul-2013		0.55	0.23	0.24	0.54					
4-Jul-2013		0.48	0.49	0.47	0.18					
5-Jul-2013		0.78	0.72	0.17	0.63				146	
6-Jul-2013		0.39	0.51	0.40	0.29					
7-Jul-2013						Sunday				
8-Jul-2013		0.47	0.43	0.85	0.93		- 10 			
9-Jul-2013		0.80	0.28	0.20	0.20					
10-Jul-2013		0.13	0.33	0.19	0.27					
11-Jul-2013		0.52	0.15	0.21	0.99					
12-Jul-2013		0.15	0.20	0.16	0.21					
13-Jul-2013		0.41	0.19	0.79	0.17					
Remarks										5

K

							(Block 14 Str	uctural A&A)
	ों की क ि	7.事体了	和古田が	र चा				Trigger Levels	
AA AA	也顽	建染上	程有限公	ンロ		Monitoring Check Pts.	Alert level	Alarm level	Action level
						Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s
	way C	onstructio	n Company	/ Lta.	Vibration	Record			
Project Title	: Central	Police Station	Conservation	& Revitalizati	on Proje	ect No: WP201	14-Jul-2013	to	27-Jul-2013
POINT	ſ	VM14-1	VM14-2	VM14-3	VM14-4				
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s				
19-Nov-12 (Initial)	0.103	0.112	0.147	0.136				
14-Jul-2013						Sunday			
15-Jul-2013		0.13	0.20	0.18	0.84				
16-Jul-2013		0.20	0.15	0.37	0.14				
17-Jul-2013		0.21	0.30	0.71	0.21				
18-Jul-2013		0.51	0.17	0.21	0.69				
19-Jul-2013		0.26	0.61	0.54	0.61				
20-Jul-2013		0.40	0.57	0.61	0.77				
21-Jul-2013						Sunday			
22-Jul-2013		0.74	0.19	0.16	0.53				
23-Jul-2013		0.74	0.55	0.61	0.69				
24-Jul-2013		0.23	0.16	0.19	0.51				
25-Jul-2013		0.18	0.24	0.30	0.77				
26-Jul-2013		0.35	0.32	0.33	0.42				
27-Jul-2013		0.77	0.23	0.16	0.40				
Remarks									

								(Block 14 Stru	uctural A&A	
	ोट इन्हे	2.书符丁	和古四九	र चा					Trigger Levels	
AA AA	旦动	健榮上	程有限公	ンロ		Monitoring Chec	k Pts.	Alert level	Alarm level	Action level
						Vibrating Monito	ring	2mm/s	2.5mm/s	3mm/s
win win	way C	onstructio	n Company	' Lta.						
					Vibration	Record				
Project Title	: Central	Police Station	n Conservation	& Revitalizati	on Proje	ct No: WP201		28-Jul-2013	to	10-Aug-2013
POINT	-	VM14-1	VM14-2	VM14-3	VM14-4					
		¥ 1¥11 4 -1	V IVI I +-2	v 1v11+-5	V IVII					
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s					
19-Nov-12 (Initial)	0.103	0.112	0.147	0.136					
28-Jul-2013	·					Sunday				
29-Jul-2013		0.64	0.66	0.66	0.14					
30-Jul-2013		0.29	0.78	0.78	1.04					
31-Jul-2013		0.16	0.17	0.17	0.71					
1-Aug-2013		0.49	0.28	0.28	0.17					
2-Aug-2013		0.39	0.17	0.17	0.14					
3-Aug-2013		0.37	0.51	0.69	0.16					
4-Aug-2013						Sunday				
5-Aug-2013		0.30	0.16	0.40	0.53					
6-Aug-2013		0.51	0.27	0.19	0.18					
7-Aug-2013		0.15	0.19	0.64	0.26					
8-Aug-2013		0.30	0.46	0.16	0.21					
9-Aug-2013		0.23	0.18	0.23	0.44					
10-Aug-2013										
Remarks										



				Monit	oring Check Pts.		Trigger Level	S
	amm	on			Julig Check Fts.	Alert level	Alarm level	Action level
					tion Monitoring	2mm/s	2.5mm/s	3mm/s
				# Vibrati	on at largest span of	5.0mm/s	6.0mm/s	7.5mm/s
				highes	t Structural level	5.01111/5	0.0mm/s	7.3mm/s
			Vibration	Record				
Project Title: Cer	ntral Police Sta	tion Conservatio	n & Revitalization	Project No:	WP202 (Block 1 A&	A 18-Apr-2013	3 to	1-May-2013
	1				1		1 1	
POINT	#VM1-1*	#VM1-2*						
DATE	mm/s	mm/s						
11-12-12 (Initial)	0.132	0.698						
18-Apr-13	0.098	0.111			· · · · · · · · · · · · · · · · · · ·			
19-Apr-13	0.166	0.761						
20-Apr-13	1.430	0.160						•
21-Apr-13				Sunday			11	
22-Apr-13	0.241	0.255						
23-Apr-13	0.246	0.327						
24-Apr-13	0.307	0.251						
25-Apr-13	0.150	0.258						
26-Apr-13	0.184	0.317						
27-Apr-13	0.183	0.232						
28-Apr-13				Sunday			<u> </u>	
29-Apr-13	1.310	0.420						
30-Apr-13	0.264	0.112						
01-May-13				Holiday	•			
Remarks: * sam								
# Vib	ation at largest sp	oan of highest struct	ıral level		Prepared by : Wo	I e		
					Prepared by : Wo	ong Wing Yee		

				Monito	ring Check Pts.		Frigger Leve	ls
	amm	nn		IVIOIIIIO.	Thig Check Pts.	Alert level	Alarm level	Action level
				Vibrat	ion Monitoring	2mm/s	2.5mm/s	3mm/s
				# Vibratio	n at largest span of	5.0mm/s	6.0mm/s	7.5mm/s
				highest	Structural level	5.01111/5	0.01111/5	7.51111/5
			Vibratio	n Record				
Project Title: Cent	ral Police Sta	tion Conservation	& Revitalization	Project No:	WP202 (Block 1 A&	A 2-May-2013	to	15-May-201
POINT	#VM1-1*	#VM1-2*					-	
DATE	mm/s	mm/s						
11-12-12 (Initial)	0.132	0.698						
02-May-13	0.160	0.206						
03-May-13	0.609	0.103						
04-May-13	0.131	0.246						
05-May-13				Sunday				
06-May-13	0.268	0.200						
07-May-13	0.128	0.156						
08-May-13	0.187	0.212						
09-May-13	1.210	0.295						
10-May-13	0.236	0.246						
11-May-13	0.133	0.300						
12-May-13				Sunday				
13-May-13	0.256	1.450						
14-May-13	0.241	1.160						
15-May-13	0.189	0.817						
Remarks: * same	N/D105							

Prepared by : Wong Wing Yee

				Monitor	ing Check Pts.	r	Frigger Level	S
	ammo	an		Monitor	ing Check Pis.	A lert level	Alarm level	Action leve
				Vibrati	on Monitoring	2mm/s	2.5mm/s	3mm/s
				# Vibration	n at largest span of	5.0 mm/s	6.0mm/s	7.5 mm/s
				highest	Structural level	5.0111175	0.011111/5	7.51111/5
			Vibration	n Record				
oject Title: Cent	ral Police Sta	tion Conservat	ion & Revitalization	Project No:	WP202 (Block 1 A&	A 16-May-2013	to	########
POINT	#VM1-1*	#VM1-2*						
DATE	mm/s	mm/s						
11-12-12 (Initial)	0.132	0.698						
6-May-13	0.209	0.247						
7-May-13	•	•		Holiday	•	•		
8-May-13	0.202	0.571						
9-May-13	-			Sunday				
0-May-13	0.133	0.454						
1-May-13	0.529	0.372						
2-May-13	0.087	0.097						
3-May-13	0.178	0.373						
4-May-13	0.165	0.293						
5-May-13	0.371	0.447						
6-May-13				Sunday				
7-May-13	0.227	0.197						
8-May-13	0.618	0.171						
9-May-13	0.113	0.211						
	as WP107							

Prepared by : Wong Wing Yee

				Monito	ring Check Pts.	r.	Trigger Level	S
	iammo	on 👘				Alert level	Alarm level	Action level
					tion Monitoring	2mm/s	2.5mm/s	3mm/s
					on at largest span of	5.0mm/s	6.0mm/s	7.5mm/s
				highest	t Structural level		0.01111/3	1.51111/5
			Vibration	n Record				
roject Title: Cer	tral Police Sta	tion Conservatio	n & Revitalization	Project No:	WP202 (Block 1 A&	A 30-May-2013	to	12-Jun-20
					1	1		
POINT	#VM1-1*	#VM1-2*						
DATE	mm/s	mm/s						1
11-12-12 (Initial)	0.132	0.698						
30-May-13	0.163	1.400						
31-May-13	0.175	0.218						
1-Jun-13	0.139	0.207						
2-Jun-13				Sunday		1		
3-Jun-13	0.151	0.341						
4-Jun-13	0.147	0.448						
5-Jun-13	0.102	0.093						
6-Jun-13	0.720	0.434						
7-Jun-13	0.291	0.458						
8-Jun-13	0.187	0.323						
9-Jun-13				Sunday				
10-Jun-13	0.206	0.216						
11-Jun-13	0.211	0.144						
12-Jun-13				Holiday				
Remarks: * sam # Vib		oan of highest struct	ural level		Prepared by : W		1 a	

				Marite	ring Chaols Dtg		Trigger Level	ls
	iammo	nn			ring Check Pts.	A lert level	Alarm level	Action level
				Vibrat	ion Monitoring	2mm/s	2.5mm/s	3mm/s
				# Vibratic	n at largest span of	5.0mm/s	6.0mm/s	7.5 mm/s
				highest	Structural level	5.01111/3	0.01111/3	7.5111173
			Vibration	Record				
roject Title: Cen	tral Police Sta	tion Conservation	& Revitalization	Project No:	WP202 (Block 1 A&	A 13-Jun-2013	3 to	26-Jun-2013
POINT	#VM1-1*	#VM1-2*						
DATE	mm/s	mm/s						
11-12-12 (Initial)	0.132	0.698						
13-Jun-13	0.125	0.487						
14-Jun-13	0.842	0.192						
15-Jun-13	0.966	0.139						
16-Jun-13	•			Sunday		•	•	•
17-Jun-13	1.540	0.451						
18-Jun-13	0.883	0.209						
19-Jun-13	0.223	0.214						
20-Jun-13	0.194	0.162						
21-Jun-13	0.122	0.384						
22-Jun-13	0.203	0.143						
23-Jun-13				Sunday				
24-Jun-13	0.363	0.131						
25-Jun-13	0.470	0.160						
26-Jun-13	0.151	0.146						

	ìammo			Monitor	ring Check Pts.		Frigger Level	S
	iamm	on				Alert level	Alarm level	Action level
					ion Monitoring	2mm/s	2.5mm/s	3mm/s
					n at largest span of	5.0mm/s	6.0mm/s	7.5mm/s
				highest	Structural level	5.011115	0.011111/5	, .omm/ 5
			Vibration	Record				
roject Title: Cen	tral Police Sta	ation Conservat	tion & Revitalization	Project No:	WP202 (Block 1 A&	≿/ 27-Jun-2013	to	10-Jul-20
POINT	#VM1 -1*	#VM 1-2*						
DATE	mm/s	mm/s						
11-12-12 (Initial)	0.132	0.698						
27-Jun-13	0.182	0.147						
28-Jun-13	0.156	0.561						
29-Jun-13	0.103	0.199						
30-Jun-13				Sunday				
01-Jul-13				Holiday				
02-Jul-13	0.150	0.175						
03-Jul-13	0.398	0.163						
04-Jul-13	0.228	0.450						
05-Jul-13	0.132	0.139						
06-Jul-13	0.183	0.185						
07-Jul-13				Sunday				
08-Jul-13	0.128	1.050						
09-Jul-13	0.132	0.497						
10-Jul-13	0.137	0.154						
Remarks: * same		non of history	noturol loval	1		1	<u> </u>	
# Vibr	ation at largest s	pan of highest stru		: Wong Wing	••	Endorsed by	~	

				Monito	ring Check Pts.		Frigger Level	S
	ammo	n				Alert level	Alarm level	Action level
					ion Monitoring	2mm/s	2.5mm/s	3mm/s
					n at largest span of	5.0mm/s	6.0mm/s	7.5mm/s
				highest	Structural level	5.011115	0.01111/3	, .omm/ 5
			Vibration	Record				
oject Title: Cent	ral Police Sta	ation Conserv	ation & Revitalization	Project No:	WP202 (Block 1 A&	11-Jul-2013	to	24-Jul-20
POINT	#VM 1-1*	#VM 1-2*						
DATE	mm/s	mm/s						
11-12-12 (Initial)	0.132	0.698						
11-Jul-13	0.199	0.191						
12-Jul-13	0.178	0.172						
13-Jul-13	0.318	0.225						
14-Jul-13	-	-		Sunday	-			
15-Jul-13	0.333	0.194						
16-Jul-13	0.238	0.145						
17-Jul-13	0.974	0.158						
18-Jul-13	0.268	0.216						
19-Jul-13	0.837	0.125						
20-Jul-13	0.102	0.272						
21-Jul-13				Sunday				
22-Jul-13	0.259	0.144						
23-Jul-13	0.194	0.345						
24-Jul-13	0.315	0.147						
Remarks: * same	as WP107							
	tion at largest s	pan of highest s	tructural level					
				: Wong Wing	Vee	Endorsed by	· Shui Win	a

				Monito	ring Check Pts.		Trigger Level	S
	iamm	nn				Alert level	Alarm level	Action level
					ion Monitoring	2mm/s	2.5mm/s	3mm/s
					n at largest span of	5.0mm/s	6.0mm/s	7.5mm/s
				highest	Structural level	5.01111/3	0.01111/3	7.01111/3
			Vibration	Record				
roject Title: Cer	tral Police Sta	ation Conserv	vation & Revitalization	Project No:	WP202 (Block 1 A&	25-Jul-2013	to	31-Jul-20
POINT	#VM1-1*	#VM1-2*						
DATE	mm/s	mm/s						
11-12-12 (Initial)	0.132	0.698						
25-Jul-13	0.370	0.354						
26-Jul-13	0.108	0.287						
27-Jul-13	0.552	0.170						
28-Jul-13	•			Sunday			<u> </u>	
29-Jul-13	0.209	0.146						
30-Jul-13	0.111	0.384						
31-Jul-13	0.402	0.221						
Remarks: * same # Vibi	e as WP107 ation at largest s	pan of highest s		: Wong Wing		Endorsed by		

Structural Additions and



1 z	lock しし B.D. Rel No 用字目的事故版
15700 M	22-3/3066/10/BLK11 (HU) (S) F.S.D. Ref No 法防废搜索编数
BIE	Revisian/Submission 性改成/极批
	No.编述 Description 說明 Date 日期 Approved畫
the second	- BD SUBMISSION (50) 12/11 JS A BD SUBMISSION (01) 03/12 JS
44	B BC SUBMISSION (17) 03/12 JS C BD SUBMISSION RW BATCH 1 03/12 JS
Shiu King	D FOP INFROMATION (50) 03/12 JS E BD SUBMISSION (51) 05/12 JS
Cont	F BD SUBMISSION (04) 05/12 JS
1	H BD SUBMISSION (14) 05/12 JS
8. A. T	J BD SUBMISSION RW BATCH 7 06/12 JS K BD SUBMISSION (06&07) 07/12 JS
	L BD SUBMISSION (01)(H0)07/12 JS M BD SUBMISSION (11) 07/12 JS
and the second s	
25 - 42 C	
S & S A MAN	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
provide a serie a series a s	Plan Approved
	CHIONG Kam-yuene Jacky
2.	Chief Structural Engineer for BUILDING AUTHORITY
all	- 3 OCT 2012
Cert.	
B/R176	Key Plan 索引圖
C. L . C 3	• • •
Ę	0 0
iipa _c	• • • ///
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1. 1	0 0
UR/	e l
EN .	
T	BD SUBMISSION
M. E.	Drawing Status 裂麗狀況 This drawing and the contents berein are the copyright
CEOR FISHINGE MICE PHILE C	of relevant consultants. 本確認及其內容的版標屬有關觀問公司所非。 - No part of the drawing and the design contained herein
A S	may be reproduced without the pror written consent of relevant consultants. 未維有時期間公司書面印度。不否依對此服紙內任何
	内容或设计 - Do not take measurements directly from this crawing.
EXISTING FRESH WATER MAIN	切勿直兆從醫紙上豐度尺寸。 Check and vorify all dimensions on site 研有尺寸必须在工地現場抱意及審核。
	 Read this drawing in conjunction with the specifications and all other related drawings, 此關係必須與規格投明實及其它有關團級一併問講。
STREET LIGHTING NC. 33488-A1	 Notify the relevant consultants immediately of any discrepancy found literein, 如發現內容有任何謬蹤之處。應立刻通知有質觀問公司。
EXISTING STREET LIGHTING CABLE	如發現內容有任何謬欲之處。應立刻通知有質範間公司。 Client 聚主
EXISTING GAS MAIN	· 赛馬台文物保存有限公司
EXISTING HV ELECTRICITY CABLE	The Jecker Club CP Limited
EXISTING LV ELECTRICITY CABLE	
EXISTING TELECOMMUNICATION DUCT	
LIMITED)	
	Executive Architect / AP
	ROCCO 计字严
	Structural Engineer / RSE E & M Engineer
	ARUP RIJRP
	Project 項目 CENTRAL POLICE STATION
KISTING DRILLHOLE WITH TANDPIPE/PIEZONETER	CONSERVATION AND REVITALISATION PROJECT
ROPOSED BUILDING SETTLEMENT	Drawing Tate 蜀名 MONITORING LAYOUT PLAN
DINTS/TILTMETER	MONTONING LATOUT PLAN
ROPOSED RETAINING WALL SETTLEMENT DINTS/TILTMETER	
DINTS/TILTWETER ROPOSED INCLINOMETER TO BE BUILT IN	Scale 분명 Drawn 변문 Checked 문편
oints/tiltmeter Roposed inclinometer to be Built in Ored Pile Wall or Pipe Pile Wall	1:3009AI K.C.Loi AL Drawing No.圆型 Revision修改版
OINTS/TILTMETER ROPOSED INCLINOMETER TO BE BUILT IN ORED PILE WALL OR PIPE PILE WALL ROPOSED GROUND SETTLEMENT POINTS	1:3009AI K.C.Lai AL
oints/tiltmeter Roposed inclinometer to be Built in Ored Pile Wall or Pipe Pile Wall	1:3009AI K.C.Loi AL Drawing No.圆型 Revision修改版
OINTS/TILTMETER ROPOSED INCLINOMETER TO BE BUILT IN ORED PILE WALL OR PIPE PILE WALL ROPOSED GROUND SETTLEMENT POINTS	1:3009AI K.C.Lai AL Drawing No.圆型 Revision增改图
	BURITAS EXISTING FRESH WATER MAIN EXISTING FOLL SEVER PROPOSED FOUL SEVER PROPOSED FOUL SEVER PROPOSED FOUL SEVER PROPOSED FOUL SEVER PROPOSED FOUL SEVER TE BOUNDARY KISTING RETAINING WALL KISTING DRILHOLE WITH



Monitoring Check Pts.	Trigger Levels						
Wollitoring Check I is.	Alert level	Alarm level	Action level				
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s				
Vibration at largest span of	50 1						
highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s				

Vibration Record

Project Title	: Centra	al Police Sta	tion Conserva	tion & Revit	Project N	lo: WP202 (Blk	11 A&A)	19-May-2013	to	1-Jun-2013
POINT	,	VM11-1*	VM11-2*							
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s				
23-Apr-2012	(Initial)	0.130	0.190							
19-May-13						Sunday				
20-May-13		0.13	0.55							
21-May- <u>1</u> 3		0.25	0.33						(Mar.	
22-May-13		0.13	0.55				10000			
23-May-13		0.22	0.29							
24-May-13		0.28	0.45							
25-May-13		0.55	0.11							
26-May-13						Sunday				
27-May-13		0.23	0.15							
28-May-13		0.56	0.74						5.4A	
29-May-13		0.29	0.99							
30-May-13		0.15	0.18							
31-May-13		0.11	0.26							
1-Jun-13		0.15	0.42							
			4 41 337							

Remarks: * These points intercept with WP201 Block 50

Prepared by : Wong Wing Yee



								1		
		amm				Monitori	ng Check Pts.		Trigger Levels	
		amm	on					Alert level	Alarm level	Action level
							n Monitoring	2mm/s	2.5mm/s	3mm/s
							t largest span of	5.0mm/s	6.0mm/s	7.5mm/s
						highest S	tructural level	5.01111/3	0.01111/5	7.51111/5
					T 7'1 (*					
					Vibration	n Record				
Project Title	e: Centr	al Police Sta	tion Conserva	ation & Revit	Project N	lo: WP202 (E	2112 11 A PrA)	2-Jun-2013		15 1 0010
	c. centr		conserva		Tiojeet P	10. WI 202 (E	or IT A&A)	2-Jun-2013	to	15-Jun-2013
										Ι
POIN	Г	VM11-1*	VM11-2*							
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s				
23-Apr-2012	(Initial)	0.130	0.190				1			
2-Jun-13						Sunday				1
3-Jun-13		0.23	0.11							1
4-Jun-13		0.13	0.53							
5-Jun-13		0.12	0.16							
6-Jun-13		0.23	0.15			1				
7-Jun-13		0.15	0.46							
8-Jun-13		0.15	0.44							
9-Jun-13						Sunday				L
10-Jun-13		0.11	0.14			1		1		1
11-Jun-13		0.13	0.23							
12-Jun-13						Public Holiday	1	L		1
13-Jun-13		0.63	0.52			1	1			1
14-Jun-13		0.44	0.62							
15-Jun-13		0.15	0.18							
	-		the second se			1	1	1		1

Remarks: * These points intercept with WP201 Block 50

Prepared by : Wong Wing Yee



POINT

23-Apr-2012 (Initial)

PD/(m)

DATE

16-Jun-13 17-Jun-13

18-Jun-13

19-Jun-13

20-Jun-13

21-Jun-13

22-Jun-13

23-Jun-13 24-Jun-13

25-Jun-13

26-Jun-13

27-Jun-13

28-Jun-13

29-Jun-13

Project Title: Central Police Station Conservation & Revit

VM11-2*

mm/s

0.190

0.15

0.32

0.15

0.23

0.32

0.26

0.41

0.56

0.63

0.31

mm/s

VM11-1*

mm/s

0.130

0.12

0.65

0.65

0.18

0.18

0.98

0.25

0.25

0.42

0.65

0.20

0.22

			1	Trigger Levels		
	Monitoring	Check Pts.	A lert level	Alarm level	Action level 3mm/s	
	Vibration I	Monitoring	2mm/s	2.5mm/s		
	Vibration at la highest Stru	argest span of	5.0mm/s	6.0 mm/s	7.5mm/s	
Vibration	Record					
Project N	o: WP202 (Bll	x 11 A&A)	16-Jun-2013	to	29-Jun-201	
mm/s	mm/s					
	Sunday					
	Sunday		1			
	Sunday					

Remarks: * These points intercept with WP201 Block 50

Prepared by : Wong Wing Yee

						Monitori	ng Check Pts.		Trigger Levels	
	G	amm	on				ng Check Pls.	Alert level	Alarm level	Action level
						Vibratio	n Monitoring	2mm/s	2.5mm/s	3mm/s
							t largest span of tructural level	5.0mm/s	6.0mm/s	7.5mm/s
					Vibratio	n Record				
Project Title	e: Centra	al Police Sta	tion Conserva	tion & Revit	Project N	lo: WP202 (E	Blk 11 A&A)	30-Jun-2013	to	13-Jul-2013
POIN	ſ	VM11-1*	VM11-2*							
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s				
23-Apr-2012		0.130	0.190							
30-Jun-13						Sunday				
01-Jul-13				-001		Holiday		495		
02-Jul-13		0.16	0.18						r izzt	
03-Jul-13		0.16	0.57							
04-Jul-13		0.21	0.51							
05-Jul-13		0.42	0.16							
06-Jul-13		0.31	0.22							
07-Jul-13						Sunday				
08-Jul-13		0.31	0.20							
09-Jul-13		0.38	0.39							
10 L-1 12		0.29	0.21							
10-Jul-13		0.45	0.23							
10-Jul-13 11-Jul-13										
11-000-		0.84	0.25							

Remarks: * These points intercept with WP201 Block 50

Prepared by : Wong Wing Yee

Acknowledged by : Shur Wing

					M			Trigger Levels	
	ìamm	an			Monitorii	ng Check Pts.	Alert level	Alarm level	Action level
					Vibratio	n Monitoring	2mm/s	2.5mm/s	3mm/s
						t largest span of tructural level	5.0mm/s	6.0mm/s	7.5mm/s
				Vibration	n Record				
Project Title: Cer	tral Police Sta	ation Conserva	ation & Revi	Project N	No: WP202 (E	Blk 11 A&A)	14-Jul-2013	to	27-Jul-201
POINT	DINT VM11-1* VM11-2*								
DATE PD/(n) mm/s	mm/s	mm/s	mm/s	mm/s				
23-Apr-2012 (Initial)	0.13	0.19							
14-Jul-13					Sunday		•		
15-Jul-13	0.16	0.65							
16-Jul-13	0.45	0.73							
17-Jul-13	0.45	0.54							
18-Jul-13	0.36	0.44							
19-Jul-13	0.86	0.54							
20-Jul-13	0.50	0.72							
21-Jul-13					Sunday				
22-Jul-13	0.51	0.61							
23-Jul-13	0.17	0.16							
24-Jul-13	0.15	0.58							
25-Jul-13	0.80	0.20							
26-Jul-13	0.72	0.69							
27-Jul-13	0.41	0.61							

Remarks: * These points intercept with WP201 Block 50

Prepared by : Wong Wing Yee

Endorsed by : Shui Wing

									Trigger Levels	
	C	ammo				Monitorin	ig Check Pts.	Alert level	Alarm level	Action level
_	G		311			Vibration	n Monitoring	2mm/s	2.5mm/s	3mm/s
						Vibration at largest span of highest Structural level		5.0mm/s	6.0 mm/s	7.5mm/s
					Vibratior	Record				
Project Title	e: Centr	al Police Sta	tion Conserva	ation & Revi	Project N	o: WP202 (B	lk 11 A&A)	28-Jul-2013	to	31-Jul-2013
POIN	r	VM11-1*	VM11-2*							
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s				
23-Apr-2012	(Initial)	0.13	0.19							
28-Jul-13						Sunday				
29-Jul-13		0.57	0.47							
30-Jul-13		0.21	0.17							
31-Jul-13		0.75	0.2							
	<u> </u>		r			1		г		
	+									
	╉╌╌┨									
	+									
	+							 		
	+									
			agent with W							

Remarks: * These points intercept with WP201 Block 50

Prepared by : Wong Wing Yee

Endorsed by : Shui Wing

Annex N

A Summary of Current Condition of Character Defining Elements

CENTRAL POLICE STATION, HONG KONG

SCHEDULE OF CHARACTER DEFINING ELEMENTS

This Schedule of Character Defining Elements has been prepared at the request of the Antiquities and Monuments Office (AMO) to support applications for S.6 approval under the Antiquities and Monuments Ordinance and the Environmental Impact assessment Ordinance. The levels of significance and their meanings are derived from the work of James Semple Kerr.

For each element, the level of significance is stated, together with the planned outcome and associated mitigation measure, where applicable, and the resultant impact upon the significance. Generally, only those items subject to change are noted, and the impacts should be read as negative. Where elements are deemed currently to be adverse, the impact of the changes should be read as positive.

The levels of significance and definitions as defined by Kerr are stated below. The criteria used to assess the significance of each element are, as directed by AMO : (i) the association with the operation of the Central Police Station Compound; and (ii) its architectural quality. Where these criteria conflict, the resultant assessment score is aggregated.

Each entry in the schedule is accompanied by a photograph of a sample of the item described. The location of each photograph is noted on the floor plans attached in the appendix to the schedule. Similar examples of each item can be seen by observation.

	Level of significance	Meaning
	Exceptional	Where an individual space or element is assessed as displaying a strong contribution to the overall significance of the place. Spaces, elements or fabric exhibit a high degree of intactness and quality, though minor alterations or degradation may be evident.
	High	Where an individual space or element is assessed as making a substantial contribution to the overall significance of the place. Spaces, elements or fabric originally of substantial quality, yet may have undergone considerable alteration or adaption resulting in presentation which is either incomplete or ambiguous. The category also includes spaces, elements or fabric of average quality in terms of design and materials, but which exhibit a high degree of intactness.
Positive	Moderate	Where an individual space or element is assessed as making a moderate contribution to the overall significance of the place. Spaces, elements or fabric originally of some intrinsic quality, and may have undergone alteration or degradation. In addition, elements of relatively new construction, where the assessment of significance is difficult, may be included. This category also includes original spaces, elements or fabric of any quality which have undergone extensive alteration or adaption.
	Low	Where an individual space or element is assessed as making a minor contribution to the overall significance of the place, especially when compared to other features. Spaces, elements or fabric originally of little intrinsic quality, any may have undergone alteration or degradation. This category also includes original spaces, elements or fabric of any quality which have undergone extensive alteration or adaption to the extent that only isolated remnants survive (resulting in a low degree of intactness and quality of presentation).
	Neutral	Where an individual space or element is assessed as having an unimportant relationship with the overall significance of the place. Spaces, elements or fabric are assessed as having little or no significance.
	Adverse	Where an individual space or element detracts from the appreciation of cultural significance, by adversely affecting or obscuring other significant areas, elements or items.

Central Police Station

Addendum	Date
Item no. 10.029 edited entry	18 June 2013
Item no. 10.030 added	18 June 2013

Central Police Station

01 Police Headquarters

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.001	Flat plywood ceiling lining with plain rectangular cover battens		Adverse	Replace with T&G boarding to match existing	Not applicable	High
01.002	Plaster coving at abutments of walls and ceilings		Low	Remove in exceptional cases eg, where adjacent new lift shaft	Cut back neatly to a square edge and ensure remaining section is secure.	Low

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.003	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High
01.004	Timber thresholds at external doors and internal doors between main corridor and individual rooms		Low	Remove to enable level access	Splice extensions to door jambs, extend width of bottom rail of doors to match existing	Low

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.005	Plaster box cornice		Moderate	Remove in exceptional cases eg. where adjacent new lift shafts	Cut back neatly to a square edge and ensure remaining section is secure.	Moderate
01.006	Panelled doors		Moderate	Replace where necessary to achieve fire resistance to comply with Code	Re-use where possible. Record design on survey drawings where element cannot be re- used.	Moderate

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.007	External shutters		High	Reinstate to match existing pattern	Not applicable	High
01.008	External terraces at 1/F		High	Overlay existing concrete paving with timber deck to provide level access	New deck to be reversible	Low

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.009	Plaster ceilings on GF and LG1		Moderate	Install cloud ceilings to accommodate new services	Install fixed grid to minimise damage to ceiling	High
01.010	Timber door frames and architraves		Moderate	Conceal in exceptional cases eg. where adjacent new lift shaft	Retain architrave and door frame in situ. Avoid damage to joinery.	High

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.011	Concrete floor		Low	Replace where new kitchens and plant rooms to be installed	Carefully remove and retain existing floorboards for re-use. Ensure controlled demolition of concrete structure and removal of debris from building to avoid damage to adjacent surfaces. Protect or carefully remove and set aside adjacent elements such as skirting boards	Low

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.012	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	Not applicable	High

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
	Exterior decorations		Adverse	Strip off and redecorate	Sample and analyse existing paint media; select new media to suit substrate and significance	High

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.014	Existing door openings		Moderate	Block opening as part of re-planning of interior	Retain existing door frame and architraves. Use framing and non- combustible sheet linings to block opening.	Moderate
01.015	Existing walls		Moderate	Form new opening as part of re-planning of interiors	New doors and frames to be of their time to avoid confusion about provenance	Moderate

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.016	Altered doors and windows		Adverse	Repair or renew as necessary existing frames to match original patterns	Not applicable	High
01.017	Mezzanine floor in room 01/LG1/13		Adverse	Remove floor and supporting columns to re-create original double-height space	Not applicable	High

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.018	Cast iron grilles above Service Corridor 01/LG1/35		High	Remove existing steel sheet covering [alterations to grilles awaiting confirmation from HdM]		
01.019	Perforated concrete deck above lightwell		Adverse	Remove deck and make good brickwork at abutments	Not applicable	High

November 2012 Draft 10
Purcell Miller Tritton LLP

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.020	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
01.021	Stair balustrades		High	Balustrades to be supplemented with additional handrails and supports to mitigate non- compliance with code	New fittings to be of their time and made reversible. Physical intervention to existing stairs and balustrades to be kept to the minimum.	Moderate

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.022	Main corridors		High	Install new lighting, fire sprinklers, fire doors to comply with Fire Services Code	New fittings to be mounted in a manner that is of its time and reversible. Avoid physical intervention with existing plaster box cornices, architraves, dado rails	High
01.023	Painted signs	LOCKLEFT	High	Protect in situ	Not applicable	N/A

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.024	Fixed signs		Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.025	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	Arrange new penetrations so that they conform with the geometry of the existing roof. Model the size and shape of the new ducts so that the impact on the roofscape is minimised. Finish the new ducts in a non-reflective material in a neutral mid-tone.	High

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.026	Enclosure at First Floor landing of main stair		Adverse	Remove	Not applicable	Moderate

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.027	Steel railing enclosure at FF level		Low	Remove	Record on measured drawings and photographs	Low
01.028	Tongued and grooved flat and sloped timber boarded ceilings		Moderate	Repair where necessary and reinstate where missing	Not applicable	Moderate

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.029	Modern partitions		Adverse	Remove	Not applicable	High
01.030	Tiled dado		High	Cut away for enlargement of existing windows to form new doorways	Cut back to joint line and adjust tiling pattern to suit new opening. New tiles to match existing sizes and colours.	Moderate

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.031	Reinforced concrete canopy and sash windows		Moderate	Remove canopy and replace sash windows with new windows to match original	Make good brickwork where canopy removed, Reinstate rendered architraves around new window to match similar window facing on West wing	Moderate

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.032	Arched opening in brick wall above ceiling line		Low	Retain insitu and use to pass through future services. Infill only where opening is within a fire compartment	Use non-combustible material to block opening.	Low

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.033	Ceiling void service installation (Cast Iron Water Tank and pipework)		Low	Remove and make good adjacent surfaces	N/A	Low

Central Police Station

02 Armoury

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
02.001	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High
02.002	Modern internal doors		Adverse	Remove	Not applicable	High

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
02.003	Modern partitions		Adverse	Remove	Not applicable	High
02.004	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
02.005	Brickwork walls enclosing rooms at GF and FF East side		Low	Remove and reinstate verandah	Not applicable	High
02.006	Concrete floors		Low	Selected removal to accommodate new stairs and lift shaft	Carefully form openings to ensure structural stability	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
02.007	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	No applicable	High

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
02.008	Altered doors and windows		Adverse	Repair or renew as necessary existing frames to match original patterns	Not applicable	High

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
02.009	Concrete stairs		Adverse	Remove stairs	Not applicable	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
02.010	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	Arrange new penetrations so that they conform with the geometry of the existing roof. Model the size and shape of the new ducts to reduce impact. Finish ducts in a non- reflective material that is neutral in colour and mid-tone.	High
02.011	Roof structure and tiled soffit		High	Repair and retain.	N/A	Neutral

03 Barracks Block

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.001	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
3.002	Panelled doors		Moderate	Replace where necessary to achieve fire resistance to comply with Code	Re-use where possible. Record design on survey drawings where item cannot be re-used.	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.003	External shutters		High	Reinstate to match existing pattern	Not applicable	High
03.004	Timber thresholds at external doors and internal doors between main corridor and individual rooms		Low	Remove to enable level access	Splice extensions to door jambs, extend width of bottom rail of doors to match existing	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.005	Timber spandrel panels below windows		Low	Conceal in exceptional cases eg. where adjacent new lift shaft	Retain frame and spandrel panel where possible. Remove only where necessary in connection with re- planning of interiors. Record on measured survey drawings.	Low
03.006	Timber floors		High	Replace where new kitchens and plant rooms to be installed	Limit extent of removal as much as possible. Carefully remove and retain existing floorboards for re-use. Ensure controlled dismantling of timber structure and set aside for possible re-use. Protect or carefully remove and set aside adjacent elements such as skirting boards	Medium

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.007	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	No applicable	High

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.008	Exterior decorations		Adverse	Strip off and redecorate	Sample and analyse existing paint media; select new media to suit substrate and significance	High
03.009	Block existing door openings		Low	Block opening as part of re-planning of interior	Retain existing door frame and architraves. Use framing and non- combustible sheet linings to block opening.	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.010	Form new door openings		Low	Form new opening as part of re-planning of interiors	New doors and frames to be of their time to avoid confusion about provenance. Re-open original openings where possible. Retain original reveals and arches.	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.011	Altered doors and windows		Adverse	Repair or renew as necessary existing frames to match original patterns	Not applicable	High

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.012	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
03.013	Stair balustrades		High	Balustrades to be supplemented with additional handrails and supports to mitigate non- compliance with code	New fittings to be of their time and made reversible. Physical intervention to existing stairs and balustrades to be kept to the minimum.	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.014	Painted signs	NO VISITOR WILL BE ADMITTED WITHOUT THE PERMISSION OF THE D.O. OR FORMATION COMMANDER 或官管主得未如者訪探 進撞得不可許官警值當	High	Protect in situ	Not applicable	N/A
03.015	Fixed signs	NO. 3 PLATOON R. & F CHANGING ROOM 第三隊更衣室	Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.016	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	Arrange new penetrations so that they conform with the geometry of the existing roof. Model the size and shape of the new ducts so that the impact on the roofscape is minimised. Finish the new ducts in a non-reflective material that is neutral in colour and mid-tone.	High
03.017	Lean-to structure adjacent North wall		Moderate	Remove	Record on measured survey drawings. Make good walls where roof structure abuts	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.018	Metal-frames windows at GF North elevation		Adverse	Remove window frames, masonry spandrel panels below and reinstate verandah	Not applicable	High
03.019	Internal walls at Ground Floor level		Moderate	Remove selected internal walls where strictly necessary as part of re- planning of interiors	Walls of early or original date to be retained in part eg. by leaving a "nib" where the wall is bonded to another wall. At the point where the wall is cut away, form the cut-line on the line of a vertical joint in alternate courses. Bricks in the remaining courses to be left "as cut", and not re- bonded. Record walls on measured survey dwgs.	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.020	Assembly rooms at centre of building (all floors)		Moderate	Sub-divide two rooms on each floor to provide service core, comprising: lifts, toilets, plant rooms, stores	Form new sub-visions using lightweight partitions to achieve reversibility. Form straight joints at abutments with existing retained walls. Notch new partitions around existing brick corbels at high level as a reminder of current condition.	Moderate
03.021	Exposed soffits of timber floors		Moderate	Underline existing floors to achieve specified fire resistance stated in Code	Avoid unnecessary damage to existing structure. New lining will reduce extent of intervention into existing structure. Keep level of new linings well clear of window heads.	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.022	Existing window frames/openings		High	Open up selected openings to form new fire escape doors	Retain any salvageable material for possible re- use elsewhere. Retain existing window jambs intact. Cut away masonry to form door openings along same line as window jamb; do not re-bind cut brickwork. Record existing condition on measured survey drawings.	Low
03.023	Single storey outbuildings on south side		Adverse	Demolish	Check for evidence of early route from Magistracy to Prison.	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.024	Bridge at east end		Moderate	Retain	Not applicable	Neutral

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.025	Chimneypiece on Ground Floor		Low	Repair and retain in current location	Not applicable	Neutral
03.026	Window in south wall; original dormitory space		Moderate	Remove window and take down brickwork spandrel; subdivide space to form new fire- protected escape route.	Record existing condition on measured survey drawings. New partition wall to be reversible.	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.027	Clay-tiled floor in store room adjacent stairs		Low	Remove as part of re- planning of interiors	Record on measured survey drawings	Low

Central Police Station

04 Dormitory Block A & B

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.001	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High
04.002	Timber thresholds at external doors and internal doors between main corridor and individual rooms		Low	Remove to enable level access	Splice extensions to door jambs, extend width of bottom rail of doors to match existing	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.003	Plaster box cornice		Moderate	Remove in exceptional cases where eg. where adjacent new lift shafts	Cut back neatly to a square edge and ensure remaining section is secure.	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.004	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	No applicable	High

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.005	Exterior decorations		Adverse	Strip off and redecorate	Sample and analyse existing paint media; select new media to suit substrate and significance	High

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.006	Block existing door openings		Moderate	Block opening as part of re-planning of interior	Retain existing door frame and architraves. Use framing and non- combustible sheet linings to block opening.	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.007	Form new door openings		Moderate	Form new opening as part of re-planning of interiors	New doors and frames to be of their time to avoid confusion about provenance	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.008	Altered doors and windows		Adverse	Repair or renew as necessary existing frames to match original patterns	Not applicable	High

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.009	Window frames in arcades of North and East elevations		Adverse	Remove window frames and make good masonry reveals and reinstate verandah	Not applicable	High

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.010	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.011	Stair balustrades		High	Balustrades to be supplemented with additional handrails and supports to mitigate non- compliance with code	New fittings to be of their time and made reversible. Physical intervention to existing stairs and balustrades to be kept to the minimum.	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.012	Stair from First to Second Floor		High	Replace stair to improve safety	New stair to be built of steel to comply with Code and to distinguish it as being "of its time".	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.013	External verandahs		High	Install new lighting, fire sprinklers, fire doors to comply with Fire Services Code, extract ducting to external walls	New fittings to be mounted in a manner that is of its time and reversible. Avoid physical intervention with existing plaster box cornices in rooms, architraves, dado rails. Position outlet grilles in extneral walls on centre- line of arcade arches and above structural arch	High

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.014	Painted signs	BLOCK A	High	Protect in situ	Not applicable	N/A
04.015	Fixed signs		Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.016	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	Arrange new penetrations so that they conform with the geometry of the existing roof. Model the size and shape of the new ducts so that the impact on the roofscape is minimised. Finish the new ducts in a non-reflective material that is neutral in colour.	High

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.017	Toilets at ends of verandahs		Adverse	Remove and make good finishes	Not applicable	High

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.018	Partitions at GF Dormitory A		High	Remove to make way for Interpretation	Prepare measured drawings and photographs before removal.	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.019	Switchgear in old porch 04/G/13		Adverse	Open up porch, remove electrical switchgear and make good	Not applicable	High

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.020	Flat plywood ceiling lining with plain rectangular cover battens		Adverse	Replace with T&G boarding to match existing	Not applicable	High

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.021	Steps up to doorway on FF verandah		Moderate	Remove steps and doorway to form new fore escape route	Record steps and doorway on measured drawings	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.022	Timber boarded floors with moulded skirtings		High	Retain all boarded floors and skirtings	Reinstate floor boards and skirtings after fire proofing works	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.023	Cantilever balconies		High	Retain and repair as necessary. Reinstate balcony on west elevation.	Avoid highly visible intervention to enhance structural integrity and/or compliance with building codes. Restrict access if necessary to achieve this objective.	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.024	Clay tile floor		Low	Retain and repair as necessary	Not applicable	Neutral
04.025	Matched- boarded ceiling with perforated border		Moderate	Repair and retain insitu	Not applicable	Neutral

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.026	Ceiling rose		Low	Repair and retain insitu	Not applicable	Neutral

Central Police Station

06 Dormitory C

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.001	Granite thresholds at external doors		Low	Retain; install timber deck flush with level of step where necessary	Avoid alteration to step.	Low
06.002	Pitched roof		High	New penetrations through roofs for ventilation ducts and other services	Arrange new penetrations so that they conform with the geometry of the existing roof. Model the size and shape of the new ducts so that the impact on the roofscape is minimised. Finish the new ducts in a non-reflective material that is neutral in colour and mid-tone.	High

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.003	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	Not applicable	High
06.004	Exterior decorations		Adverse	Strip off and redecorate	Sample and analyse existing paint media; select new media to suit substrate and significance	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.005	Altered doors and windows		Adverse	Adverse	Repair or renew as necessary existing frames to match original patterns	Not applicable
06.006	External airconditioning units and other external services		Adverse	Adverse	Remove and make good brickwork	Not applicable

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.007	Painted signs	CECCEC	High	Protect in situ	Not applicable	N/A
06.008	Fixed signs	有生著 DEPARTMENT OF HEALTH 中央 警署 診療所 POLICE MEDICAL POST CENTRAL POLICE STATIN	Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.009	Cantilever balconies		High	Retain and repair as necessary.	Avoid highly visible intervention to enhance structural integrity and/or compliance with building codes. Restrict access if necessary to achieve this objective.	Low
06.010	Iron balustrades		High	Retain and repair as necessary.	Avoid highly visible intervention to enhance structural integrity and/or compliance with building codes. Restrict access if necessary to achieve this objective.	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.011	Perforated margin at perimeter of ceiling		Low	Repair and retain.	Where fire-proofing of floor is required, use a product that can be installed within the floor void, leaving the ceiling lining intact.	Low
06.012	Block existing door openings		Moderate	Block opening as part of re-planning of interior	Retain existing door frame and architraves. Use framing and non- combustible sheet linings to block opening.	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.013	Form new door openings		Moderate	Form new opening as part of re-planning of interiors	New doors and frames to be of their time to avoid confusion about provenance	Moderate
06.014	Stair balustrades		High	Balustrades to be supplemented with additional handrails and supports to mitigate non- compliance with code	New fittings to be of their time and made reversible. Physical intervention to existing stairs and balustrades to be kept to the minimum.	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.015	Timber floors		High	Retain all boarded floors and skirtings	Reinstate floor boards and skirtings after fire proofing works	Low
06.016	Vinyl tile floor		Adverse	Remove tiles; renew boarded floor boards if necessary	Not applicable	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.017	Batten and panel ceiling lining		Low	Replace with lath and plaster ceiling	Not applicable	Low
06.018	Exposed roof covering		Moderate	Retain as existing	Consider insulating between upper and lower layers of roof tiles to provide thermal insulation and vapour barrier	Low

07 Dormitory D

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
07.001	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	Arrange new penetrations so that they conform with the geometry of the existing roof. Model the size and shape of the new ducts so that the impact on the roofscape is minimised. Finish the new ducts in a non-reflective material that is neutral in colour and mid-tone.	High
07.002	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	No applicable	High

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
07.003	Exterior decorations		Adverse	Strip off and redecorate	Sample and analyse existing paint media; select new media to suit substrate and significance	High
07.004	Altered doors and windows		Adverse	Repair or renew as necessary existing frames to match original patterns	Not applicable	High

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
07.005	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
07.006	Clothes drying racks		Adverse	Remove	Not applicable	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
07.008	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High
07.009	Corbelled brickwork at perimeter of room		Low	Remove in exceptional cases where eg. where adjacent new lift shafts	Cut back neatly to a square edge and ensure remaining section is secure.	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
07.010	Plywood floor		Adverse	Replace with hardwood floor boards	Not applicable	High
07.011	Timber thresholds at external doors and internal doors between main corridor and individual rooms		Low	Remove to enable level access	Splice extensions to door jambs, extend width of bottom rail of doors to match existing	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
07.012	Form new door openings		Moderate	Form new opening as part of re-planning of interiors	New doors and frames to be of their time to avoid confusion about provenance	Moderate
07.013	Stair balustrades		High	Balustrades to be supplemented with additional handrails and supports to mitigate non- compliance with code	New fittings to be of their time and made reversible. Physical intervention to existing stairs and balustrades to be kept to the minimum.	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
07.014	Fixed signs	中 中 中 中 中 中 中 中 中 中 中 中 中 中	Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
07.015	Exposed roof tiling		Moderate	Retain as existing	Consider insulating between upper and lower layers of roof tiles to provide thermal insulation and vapour barrier	Low
07.016	Concrete floor		Adverse	Overlay with hardwood floor boards	Not applicable	Moderate

Central Police Station

08 Ablutions Block

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
08.001	Panelled doors		Low	Replace where necessary to achieve compliance with Building Code	Re-use where possible. Record design on survey drawings where element cannot be re-used.	Moderate
08.002	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	No applicable	High

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
08.003	Exterior decorations		Adverse	Strip off and redecorate	Sample and analyse existing paint media; select new media to suit substrate and significance	High
08.004	Block existing door openings		Moderate	Block opening as part of re-planning of interior	Retain existing door frame and architraves. Use framing and non- combustible sheet linings to block opening.	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
08.005	Timber roof structure		High	Retain	Not applicable	Neutral
08.006	External stair at west end		Moderate	Retain	Repair as necessary. Alter balustrade to achieve reasonable level of operational safety. Restrict access to repairs and maintenance and means of escape.	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
08.007	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
08.008	Painted signs	NO VISITOR WILL BE ADMITTED WITHOUT THE PERMISSION OF THE D.O. OR FORMARION COMMANDER 我官告達彈体 动者分辨 道證体 不可許當會頂面	High	Protect in situ	Not applicable	N/A

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
08.009	Wire mesh screens		Adverse	Remove	Not applicable	Low
08.010	Internal walls and concrete floors		Low	Remove and rebuild in new configuration to suit new use	Ensure retained facades are fully supported during construction operations. Protect retained walls against damage during demolition works. Install new walls and floors to respect fenestration; avoid	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
					clashes.	
08.011	Cantilever balconies on north side		Moderate	Repair and retain insitu	Not applicable	

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
08.012	Bridge access to Barrack Block		Moderate	Retain	Repair as necessary. Alter balustrade to achieve reasonable level of operational safety. Restrict access to repairs and maintenance and means of escape.	Low
08.013	Balcony balustrades		Low	Repair as necessary and retain. Remove selected sections to enable installation of new bridge connections to Barrack Block.	Avoid removal of associated iron columns. Form interventions at selected positions so as to maintain the rhythm of the balustrades and ensure proper support at ends.	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
08.014	Single-storey outbuilding with pitched roof over		Low	Demolish to make way for new loading bay.	Record on measured survey drawings. Infill existing internal opening leaving reveals exposed. Tooth-in new brickwork at abutments after existing walls removed. Salvage cast iron columns for possible re-use.	Low
08.015	Corrugated steel sheet on balcony balustrades		Adverse	Remove	Not applicable	Low

Central Police Station

Central Police Station

09 Magistracy

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.001	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High
09.002	Modern partitions		Adverse	Remove	Not applicable	N/A

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.003	Internal walls		Moderate	Remove selected internal walls where strictly necessary as part of re- planning of interiors	Walls or early or original date to be retained in part eg. By leaving a "nib" where the wall is bonded to another wall. At the point where the wall is cut away, form the cut-line on the line of a vertical joint in alternate courses. Bricks in the remaining courses to be left "as cut", and not re- bonded, as evidence of the current condition.	Moderate
09.004	Plaster box cornice		Moderate	Remove in exceptional cases eg. Where adjacent new lift shafts	Cut back neatly to a square edge and ensure remaining section is secure.	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.005	Panelled doors		Moderate	Replace where necessary to achieve fire resistance to comply with Code	Re-use where possible. Record design on survey drawings where element cannot be re-used.	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.006	Block existing door openings		Moderate	Block opening as part of re-planning of interior	Retain existing door frame and architraves. Use framing and non- combustible sheet linings to block opening.	Moderate
09.007	Form new door openings		Moderate	Form new opening as part of re-planning of interiors	New doors and frames to be of their time to avoid confusion about provenance	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.008	Stair balustrades		High	Balustrades to be supplemented with additional handrails and supports to mitigate non- compliance with code	New fittings to be of their time and made reversible. Physical intervention to existing stairs and balustrades to be kept to the minimum.	Moderate
09.009	Fixed signs		Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.010	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
09.011	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	Arrange new penetrations so that they conform with the geometry of the existing roof. Model the size and shape of the new ducts so that the impact on the roofscape is minimised. Finish the new ducts in a non-reflective material that is neutral in colour and mid-tone.	High

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.012	Rainwater goods		Moderate	Replace with larger sizes/closer spacing to improve performance	Use cast iron to match original pattern Make good all redundant fixing holes	High
09.013	Metal walkways across lightwell		Adverse	Remove walkways and make good brickwork at abutments	Not applicable	High

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.014	Altered doors and windows		Adverse	Repair or renew as necessary existing frames to match original patterns	Not applicable	High
09.015	Sloping canopy over external stair on west side		Adverse	Remove canopy and supporting structure	Not applicable	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.016	Single storey secure shelter at North West corner		Low	Demolish	Make good brickwork at abutments.	Low
09.017	Iron railing adjacent south side of item 09.016 above		Moderate	Retain; including remains of bars (now removed) between existing railings and east side of Barracks Block.	Not applicable	Neutral

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.018	Public toilets in 09/LG1/17, 24		Adverse	Strip out sanitaryware, and fit-out for pottery display/service access. Form new door openings in east walls.	Retain existing door openings and metal- barred gates. Retain external granite steps and existing ground level.	Low
09.019	Cell doors		High	Re-open to provide access to Retail space	Retain existing iron gate	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.020	Meeting room at G/02-05		Moderate	Remove timber panelling from walls and sub divide to form new toilets and lift shaft	Record existing wall linings, and any earlier lining behind, on measured survey drawings.	Moderate
09.021	Lobbies within entrance hall G/12		Adverse	Remove	Not applicable	N/A

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.022	Public galleries on FF		Adverse	Strip out plant, remove partition walls and restore galleries	Not applicable	High
09.023	Chimney piece		Moderate	Retain	Not applicable	Neutral

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.024	Lanterns above entrance hall		Adverse	Remove existing lanterns and install single lantern	Not applicable	Moderate
09.025	Boarded ceilings on Second Floor		High	Repair and retain where possible	Limit extent of penetrations as far as practicable. Record on measured survey drawings where ceilings have exceptionally to be removed.	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.026	Iron gates at top of external stair		Moderate	Retain	No applicable	Neutral
09.027	Iron balustrade adjacent terrace at First Floor east side		High	Retain; install structural glass balustrade inboard of ironwork to provide compliance with Building Codes	Avoid penetration of existing tiled pavement when fixing glass balustrade.	Low

Central Police Station

10 Assistant Superintendent's Office

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.001	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High
10.002	Plaster box cornice		Moderate	Remove in exceptional cases eg. Where adjacent new lift shafts	Cut back neatly to a square edge and ensure remaining section is secure.	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.003	Panelled doors and linings		Moderate	Replace where necessary to achieve fire resistance to comply with Code	Re-use where possible. Record design on survey drawings where element cannot be re-used.	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.004	Timber boarded floor with moulded skirtings		High	Repair as necessary and retain	Lift carefully and refix upon completion of fire- proofing and services installation	Low
10.005	Exterior decorations		Adverse	Strip off and redecorate	Sample and analyse existing paint media; select new media to suit substrate and significance	High

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.006	Block existing door openings		Moderate	Block opening as part of re-planning of interior	Retain existing door frame and architraves. Use framing and non- combustible sheet linings to block opening.	Moderate
10.007	Form new door openings		Moderate	Form new opening as part of re-planning of interiors	New doors and frames to be of their time to avoid confusion about provenance	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.008	Altered doors and windows		Adverse	Repair or renew as necessary existing frames to match original patterns	Not applicable	High
10.009	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.010	Stair balustrades		High	Balustrades to be supplemented with additional handrails and supports to mitigate non- compliance with code	New fittings to be of their time and made reversible. Physical intervention to existing stairs and balustrades to be kept to the minimum.	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.011	Fixed signs		Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A
10.012	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	Arrange new penetrations so that they conform with the geometry of the existing roof. Model the size and shape of the new ducts so that the impact on the roofscape is minimised. Finish the new ducts in a non-reflective material that is neutral in colour and mid-tone.	High

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.013	Internal walls		Moderate	Remove selected internal walls where strictly necessary as part of re- planning of interiors	Walls or early or original date to be retained in part eg. By leaving a "nib" where the wall is bonded to another wall. At the point where the wall is cut away, form the cut-line on the line of a vertical joint in alternate courses. Bricks in the remaining courses to be left "as cut", and not re- bonded, as evidence of the current condition.	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.014	Partitions on SF		Moderate	Remove partitions	Record partitions on measured drawings	Moderate
10.015	Blocked windows on south elevation of south-east wing		Adverse	Re-open window openings and reinstate window frames and glazing	Not applicable	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.016	Open-joisted ceiling on Ground Floor of south- east wing		Moderate	Underline floor to provide fire protection.	Avoid intrusive alteration. Use fire-proofing products and methods that enable existing structure and boarding to be retained.	Low
10.017	Moulded timber picture rail		Low	Repair and retain	Not applicable	Neutral

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.018	Timber roof structure above south-east wing		Moderate	Repair as necessary and retain	Avoid intrusive alteration. Retain open appearance/	Low
10.019	Timber stair		Moderate	Underline with fire- resisting lining	Repair as necessary and retain.	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.020	Clay/terrazzo tile floor on Ground Floor and steps		Adverse	Adjust levels to enable level access and replace floor finish	Not applicable	Low
10.024	Granite wall on North elevation		High	Construct new external steps adjacent wall	Keep new stair clear of wall; avoid any physical connection between steps and wall.	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.025	Single storey outbuilding at South East corner		Moderate	Demolish outbuilding and make good at abutments	Record outbuilding on measured drawings	Low
10.026	Blocked archway on East elevation		Adverse	Demolish infilling and re- open archway	Protect original arch and jambs against damage during demolition	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.027	Chimney on east elevation		Low	Retain	Not applicable	Neutral
10.028	Cantilever balconies		High	Repair as necessary and retain	Avoid intrusive interventions. Restrict access if necessary to retain existing appearance.	Neutral

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.029	Steps on east elevation		Moderate	Repair as necessary and retain	Not applicable	Neutral
10.030	Decorative metal screen (See also item 10.026)		Low	Repair and retain	Not applicable	Positive

Central Police Station

11 A Hall

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.001	Form new door openings		Low	Form new opening as part of re-planning of interiors	New doors and frames to be of their time to avoid confusion about provenance	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.002	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
11.003	Painted signs		High	Protect in situ	Not applicable	N/A

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.004	Fixed signs	警告 小心地滑 CAUTION SLIPPERY FLOOR	Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A
11.005	Concrete stairs		Low	Remove and rebuild as part of re-planning of interiors	None	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.006	Flat roof		Low	Form new rooftop extension at West end to accommodate fire escape stair	Form straight joint at abutment with building 08 Ablutions Block	Low
11.007	Security screen at roof level		Low	Remove	Record on measured survey drawings	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.008	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	Not applicable	High

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.009	Rainwater goods		Low	Remove embedded cast iron pipework set into wall to reduce long term maintenance burden	Record on measured survey drawings. Make good cavity.	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.010	Timber doors		Low	Repair and retain	Not applicable	Neutral

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.011	Security screen and door at First Floor		Low	Remove	Record on measured survey drawings	Low
11.012	Door thresholds and plinth		Low	Retain; remove paint media from plinth and brickwork	Not applicable	Neutral

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.013	Metal louvres on window openings		Adverse	Remove	Not applicable	Low

Central Police Station

12 B Hall

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
12.001	Flat roof		Moderate	Repair and retain	Avoid roof penetrations as far as possible	Low
12.002	Cells at GF level		High	Remove cells in selected locations to accommodate new North-South route across site	Record existing layout on measured survey drawings. Limit number of cells affected to the minimum necessary. Retain floor structure above. Retain remainder of cells at this level for interpretation	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
12.003	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
12.004	Painted signs		High	Protect in situ	Not applicable	N/A

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
12.005	Fixed signs		Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A
12.006	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	Not applicable	High

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
12.007	Corbelled brickwork at high level in cells		Low	Retain	Not applicable	Neutral
12.008	Barbed wire		Moderate	Remove	Record wire on measured drawings	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
12.009	External walls		Moderate	Form openings in North and South walls in conjunction with new North-South route across site	Cut brickwork to form openings in North and South walls; do not re-bond brickwork.	Moderate

Central Police Station

13 C Hall

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.001	External airconditioning units and other external services		Adverse	Remove	Not applicable	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.002	Door to Ladder Store		Low	Retain	Not applicable	Neutral
13.003	Security bars at window openings		Low	Retain	Not applicable	Neutral

June 2013 Draft 11
Purcell Miller Tritton LLP

142

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.004	Flat roof		Low	Retain	Avoid roof penetrations as far as possible.	Low
13.005	Eaves detail		Low	Retain	Not applicable	Neutral

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.006	Cantilever reinforced concrete canopy		Low	Retain	Not applicable	Neutral

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.007	Internal partition walls		Low	Remove as part of re- planning of interiors	Record on measured survey drawings	Low
13.008	Fixed signs		Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.009	Metal window frames		Moderate	Repair and retain	Not applicable	Neutral
13.010	Internal security screens		Moderate	Retain where possible	Where necessary record on measured survey drawings prior to removal	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.011	Coving at abutments between RC beams and walls		Low	Avoid penetrations for services installations as far as possible.	Cut away neatly for services penetrations and make good at abutments.	Low
13.012	Communal cells at Ground Floor		Moderate	Remove as part of re- planning of interiors	Record on measured survey drawings	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.013	Rooflight and security bars over communal cells		Moderate	Remove as part of re- planning of interiors	Record on measured survey drawings	Low
13.014	Granite threshold at external door openings		Low	Retain	Not applicable	Neutral

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.015	Timber boarded doors with fanlight over		Low	Repair as necessary and retain	Not applicable	Neutral
13.015	Vinyl tile floor		Adverse	Replace	Not applicable	Low

June 2013 Draft 11
Purcell Miller Tritton LLP

149

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact

Central Police Station

14 D Hall East Wing

Element no. Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.001 West ent Lower Gr Floor		Moderate	Retain as public entrance at this level.	Retain security gate and granite threshold. Adjust adjacent ground level as necessary to achieve barrier-free access. Pin gate back against adjacent wall in the open position if necessary.	Low

Central Police Station

Element no. Description		Photo ref.	Significance	Proposal	Mitigation	Impact
head	-round ded doorway side lights		Moderate	Retain	Remove air duct and make good masonry above arch.	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.003	Granite surround to cells (generally north side, alternating with brick surrounds – see next item)		Moderate	Retain door surround and gate wherever possible.	Pin back gate against wall. Remove paint media to expose granite material.	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.004	Brick reveals with bull-nosed arrisses and segmental arch over (generally north side, alternating with granite surrounds – see previous item)		High	Retain door surround and gate wherever possible	Pin back gate against wall	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.005	Arched opening at East end First Floor		Low	Retain as existing	Not applicable	Low
14.006	Concrete floor generally at Lower Ground Floor		Low	Excavate entire floor to install piled underpinning	Record levels on measured survey drawings. Install new floor at the same level.	Low

June 2013 Draft 11
Purcell Miller Tritton LLP

155

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.007	Part-blocked windows at Lower Ground Floor - extent of blocking varies.		Moderate	Open up window opening to full extent.	Record existing condition on measured survey drawings. Add further detail during demolition works.	Low
14.008	External granite stair from Lower Ground to Ground Floor level		Moderate	Remove stair to make way for new stair in similar position	Review design proposals to see whether existing stair can be retained.	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.009	Ashlar pattern on external walls		Moderate	Form new openings for entrance/exit to building	Set out new openings to cause minimum disruption to ashlar pattern. Record existing pattern on measured survey drawings.	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.010	Blocked doorway at south-east corner		Low	Preserve blocked opening intact.	Not applicable	Neutral

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.011	Metal security gate and screen		Low	Retain insitu	Pin gate in open position if necessary	Neutral

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.012	Half-round headed doorway and side lights at Ground Floor west end		Moderate	Retain insitu	Not applicable	Neutral
14.013	Structural steelwork bracing and temporary access stair		Adverse	Remove upon completion of underpinning	Not applicable	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.014	RC staircase at north-east corner		Low	Remove	Record on measured drawings	Low
14.015	Vinyl tile floor on suspended timber floor		Adverse	Remove vinyl tiles and restore boards if possible; alternatively, replace boards with new timber to match other boarded floors elsewhere on the site.	Not applicable	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.016	Cell walls at Ground Floor		Moderate	Retain insitu	Use existing door openings wherever possible. Avoid further alteration to existing altered openings where feasible.	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.017	Mortuary		High	Preserve insitu	Avoid any service penetrations from adjacent spaces	Neutral
14.018	Brickwork surrounds to doorways with segmental arches over		Moderate	Increase width in selected locations to allow wheelchairs to pass	Record on measured survey drawings. Limit interventions as far as possible.	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.019	Granite surrounds to doorways with lintels over		Moderate	Increase width in selected locations to allow wheelchairs to pass	Record on measured survey drawings. Limit interventions as far as possible.	Low
14.020	Flat ceilings at Ground Floor		Low	Form penetrations for services installations where necessary	Avoid disruption of beams.	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.021	Arched opening at east end		Low	Retain insitu	Not applicable	Neutral

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.022	Top-lit central hall		High	Retain insitu	Not applicable	Neutral

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.023	Arches across central hall at First Floor		Moderate	Retain insitu	Not applicable	Neutral

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.024	Inset security gate and screen in First Floor cells		Low	Remove to suit new use	Remove where necessary. Record on measured drawings.	Low

Central Police Station

14 D Hall West Wing

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.030	Main stair		High	Remove wire mesh and framing	Record on measured drawings	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.031	Brick vault over central hall at Ground Floor		High	Retain insitu	Not applicable	Neutral
14.032	Terrazzo floor in central hall at Ground floor		Moderate	Remove to enable piled underpinning	Record on measured survey drawings	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.033	Brick vaults above cells		High	Retain insitu	Avoid penetrations for services	Neutral
14.034	Cell walls (later additions)		Moderate	Remove where necessary to accommodate new cafe	Record on measured drawings	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.035	Brickwork spandrels below cell windows on south side at Ground Floor		Moderate	Remove to accommodate new cafe	Record on measured survey drawings	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.036	Cell walls flanking central hall		High	Remove to accommodate new cafe	Record on measured survey drawings. Retain selected cells for interpretation purposes.	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.037	Cell floors		Low	Remove to enable piled underpinning	Record on measured survey drawings	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.038	Partition wall across central hall at Ground Floor		Low	Remove to accommodate new cafe	Record on measured survey drawings	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.039	Granite pavement in cross-passage between East and West Wings		Moderate	Repair as necessary and retain insitu	Not applicable	Neutral
14.040	Granite threshold at doorway between cross- passage and East Wing		Moderate	Retain insitu	Not applicable	Neutral

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.041	Brick vault over cross-passage		High	Retain insitu	Avoid any services penetrations	Neutral
14.042	Granite floor in central hall at First Floor		Moderate	Retain insitu	Repair where necessary	Neutral

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.043	Cell walls flanking central hall at First Floor		High	Retain insitu	Not applicable	Neutral
14.044	Brickwork spandrels below cell windows at Second Floor		Moderate	Remove to enable new use	Record on measured drawings. Confine changes to one elevation, north or south.	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.045	Metal security screen adjacent main stair		Moderate	Retain insitu	Not applicable	Neutral

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.046	Double-height central hall at Second Floor		High	Retain insitu	Not applicable	Neutral

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.047	View ports adjacent entrance doors		Moderate	Retain insitu	Not applicable	Neutral
14.048	Services installations		Adverse	Remove	Not applicable	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.049	Metalwork and structural steel framing on exterior (typical)		Adverse	Remove	Not applicable	High
14.050	Blind arcade, south elevation		Low	Remove infill brickwork within arched openings at ground level to enable new cafe	Record on measured survey drawings. Observe and record any evidence that brickwork infills were built at the same time as the arched openings or added later	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.051	Blind arcade, north elevation		Low	Retain insitu	Not applicable	Neutral
14.052	Fence wall, east end of D Hall Yard		Low	Remove to reinstate access to granite stair to Lower Ground Floor level	Record on measured drawings	Low

Central Police Station

15 E Hall

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.001	Dividing walls at Lower Ground Floor		Moderate	Remove to enable multi- purpose use	Record on measured survey drawings	Low
15.002	Dividing walls at Lower Ground Floor		Moderate	Remove to enable multi- purpose use	Record on measured survey drawings	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.003	Staircase within Laundry Yard		Moderate	Remove to enable construction of Arbuthnot Wing	Record on measured survey drawings	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.004	Services installations		Adverse	Remove	Not applicable	Moderate
15.005	Metal louvres over cell window openings		Low	Remove	Record on measured survey drawings	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.006	Raised ground level adjacent entrance		Low	Remove to enable level access	Record on measured survey drawings	Low
15.007	Access balconies and apertures		Moderate	Retain apertures	Provide temporary closure as required for operational reasons	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.008	Central staircase		High	Retain	Provide secondary staircase within cell blocks to achieve code compliance	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.009	Cell walls flanking central hall		High	Retain	Pin back cell doors against walls.	Neutral

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.010	Services installations		Adverse	Remove	Not applicable	Moderate
15.011	Balcony balustrades		Moderate	Retain	Install wire net across aperture to avoid need to upgrade balustrade to meet Building Code requirements	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.012	Second Floor central hall		High	Retain	Not applicable	Neutral

Central Police Station

17 F Hall

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.001	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.002	Rainwater goods		Low	Remove existing RWPs and install new RWPs externally on North and South Elevations	Improve roof drainage to avoid ponding	Low
17.003	Exterior decorations		Adverse	Strip off and redecorate	Sample and analyse existing paint media; select new media to suit substrate and significance	High

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.004	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
17.005	Fixed signs	PRISONERS' PRIVATE CLOTHING STORE 犯人私家衣服儲藏室	Moderate	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.006	Security screen at First Floor entrance		Low	Remove	Record on measured drawings	Low
17.007	Metal windows		Moderate	Remove at First Floor to accommodate gallery space and block structural openings with blockwork	Record on measured drawings.	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.008	Fixed furniture		Moderate	Remove to accommodate gallery space	None	Low
17.009	Security screens		Moderate	Remove to accommodate gallery space	Record on measured drawings	Moderate

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.010	Timber windows		Moderate	Remove at First Floor to accommodate gallery space and block structural openings with blockwork	Record on measured drawings	Moderate
17.011	Communal washing/lavatory facilities		Moderate	Remove to accommodate gallery space	Record on measured drawings	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.012	Blocked up lantern light		Low	Unblock lantern and fit glazing	Record on measured drawings	Low
17.013	Security gates at Ground openings		Moderate	Remove to enable access to Ground Floor gallery space	Record on measured drawings	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.014	Interview booths		High	Remove to accommodate new gallery	Rebuild in new location	Moderate
17.015	External stair to First Floor		Moderate	Upgrade balustrade to comply with Building Code	Record on measured drawings. Supplement existing balustrade elements with minimal elements if necessary.	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.016	Ground Floor main entrance		Low	Retain as existing.	Keep fixed shut if not required for operational use.	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.017	Security screen at Ground Floor main entrance		Low	Remove to accommodate gallery space	Record on measured drawings	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.018	Blue Entrance Gate (facing Old Bailey Street)		High	Retain in situ	Maintain in working order	Neutral
17.019	Blue Entrance Gate (inner) and enclosed yard		Moderate	Retain gate and enclosing walls and roof in situ; remove cupboards.	Repair and maintain gate in working order	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.020	Blue Entrance Gate (inner) facing Prison Yard		Moderate	Retain gate and enclosing frame	Repair and maintain in working order	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.021	Barbed wire		Moderate	Remove	Record on measured drawings. Make good fixing points where attached to brickwork.	Low

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.022	Metal security bars at windows		Moderate	Remove as part of blocking up window openings to accommodate gallery space at First Floor	Record on measured drawings	Low
17.023	External toilets at Ground Floor adjacent East elevation		Low	Remove	Record on measured drawings	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.024	Open Visit Room		Low	Space reallocated to other uses	Record on measured drawings. Salvage entrance sign and re-use in new layout of interview booths.	Low

19 Bauhinia House

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.001	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	Arrange new penetrations so that they conform with the geometry of the existing roof. Model the size and shape of the new ducts so that the impact on the roofscape is minimised. Finish the new ducts in a non-reflective material that is neutral in colour and mid-tone.	High
19.002	Chimney		High	Repair and retain	Not applicable	Neutral

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.003	Rainwater goods and other external services		Adverse	Remove and make good wall surface. Replace defective and non- matching rainwater goods with cast iron fittings to match original.	Not applicable	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.004	External stone wall facing		High	Carry out close inspection of painted areas to determine extent of original granite facing and remove paint media where applicable.	Not applicable	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.005	Gun loops		High	Remove concrete infilling and make good stonework where necessary.	Not applicable	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.006	Look-out turret		High	Repair and retain insitu	Not applicable	Neutral

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.007	Windows		Moderate	Remove and make good stonework as necessary	Record existing windows on measured survey drawings	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.008	Modern partitions		Adverse	Remove	Not applicable	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.009	Electrical services		Adverse	Remove	Not applicable	Moderate
19.010	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.011	Exposed timber roof structure		High	Repair and retain insitu	Not applicable	Neutral
19.012	Timber stair		Moderate	Remove	Record on measured surveys drawings	Low