The Jockey Club CPS Limited

Central Police Station Conservation and Revitalisation Project:
Third Annual EM&A Review Report (1 November 2013 to 31 October 2014)

Issue Date: March 2015

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Reference 0095646

For and on behalf of
ERM-Hong Kong, Limited

Approved by: Frank Wan

Signed: 

Position: Partner

Certified by: 
(Environmental Team Leader – Winnie Ko)

Date: 25 March 2015

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Date: 15 April 2015

By Email and Post

ERM-Hong Kong Limited,
16/F Berkshire House,
25 Westlands Road,
Quarry Bay,
Hong Kong

Attn: Ms Winnie Ko

Dear Winnie,

Central Police Station Conservation and Revitalization Project
Verification of Third Annual EM&A Report

We refer to your letter dated 15 April 2015 regarding the Third Annual 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 10.5 of the EM&A Manual.

Yours sincerely,
For Atkins China Ltd.

Sharifah Or
Independent Environmental Checker

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

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EXECUTIVE SUMMARY

The construction works of **Central Police Station Conservation and Revitalisation Project** commenced on 24 October 2011. This is the third annual Environmental Monitoring and Audit (EM&A) review report summarising the EM&A works carried out during the period from 1 November 2013 and 31 October 2014 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 — 64 times
- Joint Environmental Site Inspection — 12 times
- Joint Heritage Site Inspection — 12 times
- Landscape & Visual Monitoring — 12 times
- Tree Inspection — 12 times
- Vibration monitoring for piling works — 1,461 times
- Vibration monitoring for other construction works — 878 times

Noise

64 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. Thirteen exceedances of Action Level of construction noise (complaints received) were recorded during the reporting period. No exceedance of Limit Level of construction noise was recorded.

Cultural Heritage

1,461 vibration measurement events for piling works were undertaken during the reporting period near Parade Ground, Block 8, Block 17, Block 50 and Block 51. Additionally, a total of 878 numbers of vibration monitoring events for underpinning, strengthening and structural alteration works at Blocks 1, 11 and 14 were carried out throughout the reporting period.

No exceedance of Alarm and Action Levels of vibration was recorded during the reporting period. An exceedance of Alert Level of vibration was recorded at monitoring location VM8-1 on 5 November 2013.

Twelve monthly joint 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. Twelve 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. 28,038.18 tonnes of inert C&D materials and 1910.25 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. 181,417 kg of metals and 6444 kg of paper/cardboard packaging waste were produced and sent to recyclers for recycling. No plastics waste was produced during the reporting period. 45 kg of solid chemical waste was generated and collected by licenced chemical waste collector during the reporting period.

Environmental Site Inspection

Twelve 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

Thirteen exceedances of the Action Level of construction noise (complaints received) were recorded during the reporting period. No exceedance of the Limit Level of construction noise was recorded at designated monitoring stations during the reporting period.

No exceedance of the Alarm and Action Levels of vibration was recorded during the reporting period. An exceedance of Alert Level of vibration was recorded at monitoring location VM8-1 on 5 November 2013. Gammon Construction Limited (GCL) has been notified of the exceedance.

No enquiry was received during the reporting period.

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

Thirteen complaints were received during the reporting period.

No summons/prosecutions were 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 third annual EM&A review report, which summarises the impact monitoring results and audit findings for the EM&A programme during the first year of the construction period from 1 November 2013 to 31 October 2014.

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 PROJECT INFORMATION

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.*

Table 2.1 Summary of Construction Activities undertaken in this Reporting Period

Construction Activities Undertaken
1st Quarter
• General strip out works at Block 15 and Block 19; • Structural addition and alteration works at Block 1, Block 3, Block 4, Block 6, Block 7, Block 9, Block 11, Block 12, Block 13, Block 14, Block 15, Block 17 and Block 19; • Roof tiling replacement works at Block 1, Block 2, Block 3, Block 4, Block 6, Block 7, Block 9 and Block 10; • Demolition works at Block 2, Block 3, Block 4, Block 9, Block 10, Block 11, Block 12, Block 13, Block 14, Block 15 and Block 19; • New structure construction at Block 11, Block 14 and Block 17; • Underpinning works at Block 1, Block 3, Block 9, Block 13, Block 14 and Block 19; • Channel planking work at Block 12 and Block 19; • E&M opening at Block 1, Block 6 and Block 7; • Excavation and construction of ground beam at Block 17; • Basement construction at Parade Ground; • Timber doors and windows repair works at Block 1, Block 2, Block 3, Block 4, Block 6, Block 7, Block 8, Block 9, Block 10, Block 13, Block 14 and Block 17; • E&M installation at Block 1; • External scaffolding erection at Block 2, Block 4 and Block 9; • Old Bailey Wing piling works (Block 50) and Arbuthnot Wing (Block 51) loading test preparation; • External and lateral support work at Old Bailey Wing and Arbuthnot Wing; • Removal of non-structural infill wall at Block 3 and Block 14; • Façade cleaning at Block 1, Block 6, Block 7 and Block 10; • Façade repair at Block 1, Block 6 and Block 7; • Structural timber floor repair at Block 3, Block 6 and Block 7; • Balcony repair at Block 1, Block 6 and Block 7; • Tower crane erection; • Revetment wall strengthening of R175 and R806; • Old Bailey Wing pump well test; • Salvage of R54; • Excavation of pottinger ramp; • Arbuthnot Road utilities diversion work; and • Drainage works at Block 17.
2nd Quarter

- Structural addition and alteration works at Block 2, Block 3, Block 4, Block 9, Block 10, Block 11, Block 12, Block 13, Block 14, Block 15, Block 17 and Block 19;
- Roof tiling replacement works at Block 2, Block 4, Block 9 and Block 10;
- Demolition works at Block 3, Block 10, Block 12, Block 13, Block 14 and Block 15;
- New structure construction at Block 3, Block 13, Block 14 and Block 15;
- Permanent steel works erection at Block 8;
- Underpinning works at Block 3 and Block 9;
- E&M opening, conceal conduit construction and E&M installation at Block 1;
- Construction of passageway from Parade Ground basement to Block 1 corridor;
- Revetment wall strengthening of R806 and R55;
- Basement construction at Parade Ground;
- Dismantle of the 1st layer of external lateral support system within the Parade Ground Basement Structure;
- Excavation works for construction of passageway from the Parade Ground basement to Block 1's corridor;
- Timber doors and windows repair works at Block 1, Block 2, Block 3, Block 4, Block 8, Block 9, Block 10, Block 13, Block 14 and Block 17;
- Paint stripping and plaster works at Block 1, Block 6, Block 7, Block 9 and Block 10;
- Metal works repair at Block 1, Block 12 and Block 13;
- E&M installation at Block 1;
- External and lateral support work at Old Bailey Wing;
- Removal of non-structural infill wall at Block 3 and Block 14;
- Façade cleaning and works at Block 1, Block 2, Block 3, Block 6, Block 7, Block 11 and Block 12;
- Façade repair at Block 1, Block 6 and Block 7;
- Facing brick and plastering repair on external facades at Block 1 and Block 7;
- Structural timber floor repair at Block 3, Block 6 and Block 7;
- Balcony repair at Block 1, Block 4, Block 6, Block 7, Block 9 and Block 10;
- Excavation of pottinger ramp;
- Installation of external and lateral support system, construction of manholes at the Pottinger ramp and laying of associated drainage pipes;
- Breaking of ground slab and carrying out of archaeological watching brief at MP3;
- Drawpit and service trench construction and E&M installation at the Prison Yard South (U1);
- Arbuthnot Road utilities diversion works and carriageway/footpathwork/crossing;;
- Drainage works at Block 17;
- Concreting of on-grade slab at Block 17;
- Strengthening works of existing column at Block 17;
- Pile cap construction at Arbuthnot Wing; and
- External and lateral support works at Old Bailey Wing

3rd Quarter

- Structural addition and alteration works at Block 2, Block 3, Block 4, Block 9, Block 10, Block 11, Block 12, Block 13, Block 14, Block 15 and Block 17;
- Roof tiling replacement works at Block 9 and Block 10;
- Demolition works at Block 3, Block 4, Block 13, Block 14 and Block 15;
- New structure construction at Block 3, Block 8, Block 13, Block 14 and Block 15;
- Permanent steel works erection and RC structure construction at Block 8;
- E&M opening, conceal conduit construction and E&M installation at Block 1;
- Construction of passageway from Parade Ground basement to Block 1 corridor;
- Construction of left out portion of basement plant room top slab, builders work in basement plant room;
- Timber doors and windows repair works at Block 1 and Block 9;
- Paint stripping and plaster works at Block 1, Block 3, Block 4, Block 6, Block 7, Block 9, Block 10 and Block 14;
- Metal works repair at Block 11 and Block 15;
- Façade works at Block 1, Block 2, Block 3, Block 6, Block 7, Block 9, Block 12 and Block 14;
- Structural timber floor repair at Block 3, Block 4 and Block 6;
- Balcony repair at Block 1, Block 4, Block 6, Block 7, Block 9 and Block 10;
- Drainage piles and 1st layer backfill at upper portion and ELS and manhole construction at middle portion of Pottinger Ramp (L1);
- Water/Fire Services (FS) pipes at upper portion and drainage pipes and backfill 1st layer at middle portion of Pottinger Ramp (L1);
- Excavation of L2;
- Demolition of existing concrete slab at M3;
- Carrying out of archaeological watching brief at MP3 (L2);
- Backfill at Prison Yard south (U1);
- Arbuthnot Road East and West utilities diversion works and carriageway/ footpath work/crossing;
- Strengthening works of existing column and beams trimming at Block 17;
- Pile cap construction and substructure at Arbuthnot Wing;
- External and lateral support works and capping plate construction at Old Bailey Wing; and
- R177 upgrading.

4th Quarter

- Structural addition and alteration works at Block 2, Block 3, Block 4, Block 9, Block 10, Block 11, Block 12, Block 13, Block 15 and Block 17;
- Roof repair works at Block 4, Block 9, Block 10, Block 19 and the link bridge between Block 3 and Block 9;
- Erection of rain shelter at Block 15;
- Demolition works at Block 3, Block 4, Block 5, Block 9, Block 13 and Block 14;
- New RC structure construction at Block 1, Block 2, Block 3, Block 12, Block 13, Block 14 and Block 15;
- Dismantle temp work at Block 8;
- Builders work and E&M to transformer room at Block 8;
- Removal of needle beams at Block 19;
- Conceal conduit construction and E&M installation at Block 1, Block 2, Block 6 and Block 7;
- E&M opening at Block 2, Block 6 and Block 7;
- Underground drainage at Block 1, Block 2 and Block 11;
- Builders work in basement plant room;
- Timber doors and windows repair works at Block 2, Block 3, Block 4, Block 6, Block 7, Block 8, Block 9 and Block 10;
- Paint stripping and plaster works at Block 1, Block 2, Block 3, Block 4, Block 6, Block 7, Block 9, Block 11, Block 14 and Block 15;
- Metal works repair at Block 15;
- Façade works at Block 1, Block 2, Block 3, Block 4, Block 6, Block 7, Block 8, Block 10, Block 11, Block 12 and Block 14;
- Structural timber floor repair at Block 3, Block 4, Block 6, Block 7 and Block 10;
- New balcony construction at Block 6;
- Balcony repair at Block 4, Block 6, Block 7, Block 8 and Block 10;
- Link bridge repair between Block 3 and Block 8;
- Reopen of Pottinger Ramp (L1);
- Service trench construction of L2 and M5;
- Excavation of L2 and M3;
- Construction of stormwater manhole at M5;
- Installation of galvanised iron pipes and backfilling at U2;
- Preservation by record works at U2;
- Arbuthnot Road West utilities diversion works and carriageway;
- Excavation works for HEC power cable laying at Old Bailey Street east;
- Final reinstatement of traffic island at junction between Arbuthnot Road East and Wyndham Street;
- Core wall construction at Arbuthnot Wing;
- Basement construction at Old Bailey Wing; and
- R22, R24 and R177 upgrading.

2.4 CONSTRUCTION PROGRAMME

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

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*.

Table 2.2 Summary of Environmental Licensing, Notification and Permit Status

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Environmental Permit (EP)	EP-408/2011	-	superseded by EP-408/2001/A
	EP-408/2011/A	-	superseded by EP-408/2001/B
	EP-408/2011/B	Throughout the Contract	Permit granted on 22 March 2012
Notification of Construction Works as required under *Air Pollution Control (Construction Dust) Regulation*	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 *Air Pollution Control Ordinance*	-	Throughout the Contract	EPD's letter (EPD's ref.: (5) in EPAC/A/4/000/233 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/4/000/233) 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.

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	Expired.
GW-RS0901-13	14 August 2013 at 0000 hours to 31 October 2013 at 0600 hours	Expired.
GW-RS0714-13	29 June 2013 at 1900 hours to 28 December 2013 at 2400 hours	Expired.
GW-RS0745-13	5 July 2013 at 1900 hours to 30 December 2013 at 2300 hours	Expired.
GW-RS1110-13	7 October 2013 at 0200 hours to 31 December 2013 at 0400 hours	Expired.
GW-RS1205-13	4 November 2013 at 0000 hours to 30 January 2014 at 2400 hours	Expired.
GW-RS1275-13	13 November 2013 at 0000 hours to 30 April 2014 at 2400 hours	Expired.
GW-RS1461-13	29 December 2013 at 0000 hours to 28 June 2014 at 2400 hours.	Expired.
GW-RS0062-14	10 February 2014 at 0000 hours to 31 March 2014 at 2400 hours.	Expired.
GW-RS0271-14	1 April 2014 at 0100 hours to 30 June 2014 at 0600 hours	Expired.
GW-RS0434-14	8 May 2014 at 0000 hours to 30 September 2014 at 2400 hours	Expired.
GW-RS0651-14	28 July 2014 at 0000 hours to 26 September 2014 at 2400 hours	Expired.
GW-RS0658-14	29 June 2014 at	-

		0000 hours to 28 December 2014 at 2400 hours	
	GW-RS0749-14	1 August 2014 at 0000 hours to 31 January 2015 at 2400 hours	-
	GW-RS0918-14	29 September 2014 at 0000 hours to 31 December 2014 at 2400 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 3.1 Construction 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 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 D*.

Table 3.2 Noise Monitoring Equipment

Monitoring Stations	Monitoring Equipment (Sound Level Meter and Calibrator)
NM2, NM6	Calibrator Rion NC-73 (S/N 10486660, S/N 10786708) Sound Level Meter Rion NL-31 (S/N 00410224) Rion NL-52 (S/N 00131627)

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 3.3 Action 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 E*.

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 F*.

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 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 K*. 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 L*. 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*.

Table 3.4 Alert, 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 3.5 ***Event 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 F*.

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 F*.

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.

4 IMPLEMENTATION STATUS ON ENVIRONMENTAL MITIGATION MEASURES

The Contractor has generally implemented the environmental mitigation measures 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 F*.

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

Table 4.1 Status of Required Submissions

	Submission	Submission Date
EP Condition		
Conditions 3.4	• Twenty-fourth Monthly EM&A Report	15 November 2013
	• Twenty-fifth Monthly EM&A Report	12 December 2013
	• Twenty-sixth Monthly EM&A Report	14 January 2014
	• Twenty-seventh Monthly EM&A Report	17 February 2014
	• Twenty-eighth Monthly EM&A Report	14 March 2014
	• Twenty-ninth Monthly EM&A Report	11 April 2014
	• Thirtieth Monthly EM&A Report	14 May 2014
	• Thirty-first Monthly EM&A Report	13 June 2014
	• Thirty-second Monthly EM&A Report	15 July 2014
	• Thirty-third Monthly EM&A Report	13 August 2014
	• Thirty-fourth Monthly EM&A Report	18 September 2014
	• Thirty-fifth Monthly EM&A Report	15 October 2014
EM&A Manual		
Section 10.4	• Eighth Quarterly EM&A Report	2 December 2013
	• Ninth Quarterly EM&A Report	12 March 2014
	• Tenth Quarterly EM&A Report	17 July 2014
	• Eleventh Quarterly EM&A Report	15 October 2014
	• First Annual EM&A Report	15 November 2013
	• Second Annual EM&A Report	4 March 2014

5.1 NOISE

A total of 64 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 G*. 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 Limit level of construction noise was recorded during the reporting period. Thirteen exceedances of Action Level of noise (complaints received) were recorded. Investigations of the exceedances are presented in *Annex J.*

5.2 LANDSCAPE AND VISUAL MONITORING

Monthly tree inspections were conducted by the arborist during the reporting period and key findings and recommendations are summarised in *Table 5.1*.

Table 5.1 Major Findings of Monthly Tree Inspections in the Reporting Period

Tree No.	Botanical Name	Overall Health Condition	Arborist's Observation / Recommendations
1st Quarter (1 Nov 2013, 2 Dec 2013 and 2 Jan 2014)			
Tree -5	*Mangifera indica*	Good	• To add mulch at the planter.
Tree -6	*Aleurites moluccana*	Fair	• To add mulch at the planter; • To add a small cordon zone round the tree.
Tree-7	*Aleurites moluccana*	Fair	• To add mulch at the planter; • To add a small cordon zone round the tree.
Tree-8	*Plumeria rubra*	Fair	• To add mulch at the planter; • To add a small cordon zone round the tree.
Tree-9	*Araucaria cunninghamia*	Fair	• To keep close monitoring on the sap flow; • To add mulch at the planter; • To add a small cordon zone round the tree.
Tree-11	*Dracaena marginata*	Fair	• To add mulch at the planter.
2nd Quarter (6 Feb, 3 Mar and 3 Apr 2014)			

Tree No.	Botanical Name	Overall Health Condition	Arborist's Observation / Recommendations
Tree -5	*Mangifera indica*	Good	• To add mulch at the planter; • To remove litter at the planter..
Tree -6	*Aleurites moluccana*	Fair	• To add mulch at the planter.
Tree-7	*Aleurites moluccana*	Fair	• To add mulch at the planter.
Tree-8	*Plumeria rubra*	Fair	• To add mulch at the planter.
Tree-9	*Araucaria cunninghamia*	Fair	• To add mulch at the planter.
Tree-11	*Dracaena marginata*	Fair	• To add mulch at the planter.
3rd Quarter (2 May, 3 Jun and 2 Jul 2014)			
Tree -5	*Mangifera indica*	Good	• No further action required.
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	• A dead log present on upper branches.
4th Quarter (2 Aug, 3 Sep and 3 Oct 2014)			
Tree -5	*Mangifera indica*	Good	• To remove litter from the planter.
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	• The dead log on upper branches has been pruned; • Soil near the tree has been covered with construction waste and litter. The waste should be removed immediately.

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 / piling works

A summary of vibration monitoring for trial piling and piling works in the reporting period is presented in *Table 5.2.*

Table 5.2 Summary of Vibration Monitoring for Trial Piling and Piling Works

Month/ Date	Works Locations	Number of monitoring at monitoring station
Nov 2013	Parade Ground	26
	Block 8	26
	Block 50	26
	Block 51	26
	Block 17	26
Dec 2013	Parade Ground	24
	Block 8	24
	Block 50	24
	Block 51	24
	Block 17	24
Jan 2014	Parade Ground	24
	Block 8	24
	Block 50	24
	Block 51	24
	Block 17	24
Feb 2014	Parade Ground	20
	Block 8	20
	Block 50	20
	Block 51	20
	Block 17	20
Mar 2014	Parade Ground	26
	Block 8	26
	Block 50	26
	Block 51	26
	Block 17	26
Apr 2014	Parade Ground	22
	Block 8	22
	Block 50	22
	Block 51	22
	Block 17	22
May 2014	Parade Ground	25
	Block 8	24
	Block 50	24
	Block 51	24
	Block 17	24
Jun 2014	Parade Ground	24
	Block 8	24
	Block 50	24
	Block 51	24
	Block 17	24
Jul 2014	Parade Ground	26
	Block 8	26
	Block 50	26
	Block 51	26
	Block 17	26
Aug 2014	Parade Ground	26
	Block 8	26
	Block 50	26
	Block 51	26
	Block 17	26
Sep 2014	Parade Ground	25
	Block 8	25
	Block 50	25
	Block 51	25
	Block 17	25

Oct 2014	Parade Ground	25
	Block 8	25
	Block 50	25
	Block 51	25
	Block 17	25

The records of vibration monitoring for trial piling and piling works are shown in *Annex K*.

Other construction works

A summary of vibration monitoring for underpinning, strengthening and structural alteration works at Blocks 1, 11 and 14 in the reporting period is presented in *Table 5.3.*

Table 5.3 Summary of Vibration Monitoring for Other Construction Works

Month/ Date	Works Locations	Number of monitoring at monitoring station
Nov 2013	Block 1	26
	Block 11	26
	Block 14	26
Dec 2013	Block 1	24
	Block 11	24
	Block 14	24
Jan 2014	Block 1	24
	Block 11	24
	Block 14	24
Feb 2014	Block 1	20
	Block 11	20
	Block 14	20
Mar 2014	Block 1	26
	Block 11	26
	Block 14	26
Apr 2014	Block 1	22
	Block 11	22
	Block 14	22
May 2014	Block 1	25
	Block 11	24
	Block 14	25
Jun 2014	Block 1	24
	Block 11	24
	Block 14	24
Jul 2014	Block 1	26
	Block 11	26
	Block 14	26
Aug 2014	Block 1	26
	Block 11	26
	Block 14	26
Sep 2014	Block 1	25
	Block 11	25
	Block 14	25
Oct 2014	Block 1	25
	Block 11	25
	Block 14	25

The monitoring results for other construction works are presented in *Annex L*.

All monitoring results were below the Alarm/ Action Levels throughout during the reporting period. An exceedance of Alert Level of vibration which was recorded at monitoring location VM8-1 on 5 November 2013. Gammon Construction Limited (GCL) has been notified of the exceedance.

5.3.2 Heritage Site Audit

Monthly heritage site audits were conducted by the Heritage Checker. Observations and recommendations were made to the Contractor during the site audit and follow-up actions were generally undertaken in the subsequent monthly site audit. Key site audit findings and recommendations for each month are summarised in *Annex M*.

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

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, which were disposed of at the SENT landfill. 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 5.4*. The summary of Waste Flow Table prepared by the Contractor is shown in *Annex I*.

Table 5.4 Quantities of Waste Generated from the Project

Month / Year	Quantity						
	C&D Materials (inert) (tonnes) [a]	C&D Materials (non-inert) (tonnes) [b]	Chemical Waste		Recycled materials		
			Liquid (L)	Solid (kg)	Paper/cardboard (kg)	Plastics (kg)	Metals (kg)
Nov 2013	836.74	191.58	0	0	202	0	18,486
Dec 2013	2,606.76	192.54	0	0	0	0	10,041
Jan 2014	3,813.53	97.87	0	0	0	0	14,110 [c]
Feb 2014	3378.16	37.84	0	0	0	0	9,800
Mar 2014	5,256.15	89.39	0	0	6,000	0	19,030
Apr 2014	3,006	114.31	0	45	0	0	6,950 [c]
May 2014	3,195.53	119.54	0	0	0	0	7,000
June 2014	2,176.81	148.8	0	0	242	0	8,830 [c]
July 2014	1,009.96	147.36	0	0	0	0	6,680 [c]
August 2014	379.23	211.86	0	0	0	0	13,690
September 2014	1,216.97	264.83	0	0	0	0	9,720
October 2014	1,162.34	294.33	0	0	0	0	57,080
Total	**28,038.18**	**1910.25**	**0**	**45**	**6444**	**0**	**181,417**

Notes:

(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.

(c) Quantities of recycled metals in January, April, June and July 2014 have been updated based on the updated waste record provided in the 12th Quarterly EM&A Report.

5.5 *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 first construction year. No non-compliance events were observed during site inspections and no exceedances of limit levels were recorded. The EM&A programme is considered effective.

Monthly environmental site inspections were conducted by the representatives of the Contractor, IEC and the ET. There was no non-compliance recorded during the site inspections for the second year of the construction period. 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.

28 November 2013

- A chemical drum was observed in Block 6 without drip tray. The Contractor was reminded to store the chemical drum properly with a drip tray; and
- Stagnant water was observed inside the drip tray for the air compressor beside Block 6. The Contractor was reminded to remove the stagnant water frequently, especially after rainfall events.

19 December 2013

- Nil.

16 January 2014

- Nil.

20 February 2014

- Nil.

20 March 2014

- Nil.

17 April 2014

- Fugitive dust was observed at Block 1 due to dusty façade work. The Contractor was reminded to implement appropriate mitigation measures to suppress fugitive dust emissions.

22 May 2014

- The chemical waste store was observed unlocked. The Contractor was reminded to lock the chemical waste store at all times.

19 June 2014

- Nil.

24 July 2014

- Accumulation of water was observed between Block 11 and Block 12. The Contractor was reminded to pump the water to the wastewater treatment facility for treatment prior to discharge off site.

21 August 2014

- Chemical containers were observed without drip tray near Block 8. The Contractor was reminded to provide drip trays to the chemical containers.

23 September 2014

- Nil.

16 October 2014

- A pool of stagnant water was observed accumulating in the lower level of Block 1. The Contractor was reminded to remove the stagnant water to avoid mosquito breeding.

7.1.1 Summary of Monitoring Exceedance

No exceedance of Limit Level of construction noise or Alarm and Action Level of vibration was recorded during the reporting period. The Action Level of construction noise (complaint received) was triggered during the reporting period. An exceedance of Alert Level of vibration was recorded at monitoring location VM8-1 on 5 November 2013. Gammon Construction Limited (GCL) has been notified of the exceedance.

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

Thirteen complaints were received during the reporting period. They are summarised in *Table 7.1*.

Table 7.1 Summary of Complaint Received

Date	Means by which complaint was received	Nature of complaint
14 January 2014	Home Affairs Department	Noise nuisance
17 January 2014	HKJC	Noise nuisance
14 February 2014	EPD	Noise nuisance
3 March 2014	EPD	Noise nuisance
14 April 2014	EPD	Noise nuisance
21 July 2014	Hong Kong Jockey Club	Noise nuisance
25 July 2014	Hong Kong Jockey Club	Noise nuisance
5 August 2014	CPS Website Enquiry System	Noise nuisance
11 August 2014	Gammon Construction Limited	Noise nuisance
28 August 2014	Environmental Protection Department	Noise nuisance
22 September 2014	Environmental Protection Department	Noise nuisance
26 September 2014	Environmental Protection Department	Noise nuisance
17 October 2014	Environmental Protection Department	Noise nuisance

14 January 2014

A noise complaint was received by Home Affairs Department regarding noise generated from daily construction activities, piling works and loud conversations from construction workers. Investigation showed that the noise of piling works was likely originated from a nearby construction site. Regular daytime noise monitoring at designated noise monitoring stations were conducted and the monitoring results showed compliance with the

construction noise standard for the last four months. GCL has notified all workers and operation supervisor of the complaint and reminded them to minimise the potential noise generated as much as possible during any work activities and to keep the conversation noise level down at all times. Notices were also put on site entrances and workers rest areas on 15 January 2014 as a reminder to workers to avoid engaging in loud conversations.

17 January 2014

A noise complaint was received by HKJC regarding noise from excavation works at the Victoria Prison. The loud noise mentioned by the complainant may be related to the trimming down of the bored piles and foundation piles for the construction of the capping beam at the Old Bailey Wing, and the breaking up of the boulders during excavation at and near the Arbuthnot Wing. HKJC replied to the complainant by email on 17 January 2014 to explain the construction status of the Project. The Contractor has notified all workers and operation supervisor of the complaint and reminded them to minimise the potential noise generated as much as possible during any work activities.

14 February 2014

EPD received a complaint on noise nuisance from a resident living near the junction of Staunton Street and Old Bailey Street. Complainant mentioned that the daytime construction noise affected her living. The loud noise mentioned by the complainant may be related to the trimming down of the bored piles and foundation piles for the construction of the capping beam, as well as the breaking up of boulders during the excavation at Old Bailey Wing. Monitoring results showed compliance with construction noise standard. On 14 February 2014, the Contractor has notified all workers and operation supervisor of the complaint and reminded them to minimise the potential noise generated as much as possible during any work activities. Acoustic curtains were erected as noise mitigation measures to residents living close to Old Bailey Street and Staunton Street.

3 March 2014

EPD received a complaint on noise nuisance from a resident living near the Project Site. The complainant mentioned that construction noise was emanated from the Project Site between 06:00 and 06:30 hours many times recently. Investigation showed that there was no construction work carried out from 06:00 to 06:30 hours in in February 2014. Major construction activities are carried out during normal working hours between 07:00 and 19:00 hours on Monday to Saturday. Underground water pumps, which were operating under valid Construction Noise Permit outside normal working hours, were not expected to generate noise that may affect nearby residents. The Contractor has notified all workers and operation supervisors of the complaint on 4 March 2014 and reminded them to ensure that all power mechanical equipment must be turned off when they are not in use.

14 April 2014

EPD received a complaint on noise nuisance from a resident living near the Project Site, regarding construction noise near the junction of Arbuthnot Road and Hollywood Road between 02:00 to 04:00 hours in recent mornings. Demobilisation of the 100-tonne mobile crane by a 350-tonne mobile crane from Arbuthnot Wing of the Project Site was carried out between 01:00 and 03:30 hours on 14 April 2014. Valid CNP was obtained for the demobilisation work. Investigation showed that the potential noise source may have been originated from the 350-tonne mobile crane during the retracting of its outriggers and its backing along Arbuthnot Road when the back alert was on. For safety reason, it is necessary to operate the back alert when the mobile crane is backing along the Arbuthnot Road. The Contractor was reminded to minimise potential noise sources by reducing work duration, as far as practicable, during restricted hours in order to minimise the likelihood of causing noise nuisance to nearby residents in the future.

21 July 2014

Hong Kong Jockey Club received a noise complaint from a resident living on Chancery Lane, regarding construction noise from the operation of multiple jack hammers within the CPS site in the week of 14 July 2014. The noise nuisance was likely to be related to the demolition of slab for lift shaft construction using hand-held breakers (>10kg) at Block 14 rooftop in the week of 14 July 2014 during normal working hours. Monitoring results showed compliance with construction noise standard. The Contractor was recommended to install acoustic silencers to the hand-held breakers during breaking and demolition works to reduce noise generated at source and to erect portable noise barriers or acoustic curtains where practicable.

25 July 2014

Hong Kong Jockey Club received a noise complaint from a resident living on Chancery Lane, regarding construction noise from the operation of multiple jack hammers at the prison area of the CPS site. The noise nuisance was likely to be originated from interior wall demolition at Block 15 and column demolition at Block 17 in the week of 21 July 2014 during normal working hours. In response to the complaint, the Contractor has erected acoustic curtains to shield the direct line of sight from residents living along the Chancery Lane.

5 August 2014

The CPS Website Enquiry System received a complaint on noise nuisance from a nearby resident. The complainant mentioned that a weird, repetitive sound was emanated from the crane in the Project Site at 9:13pm on 5 August 2014. According to the Contractor, the noise was originated from a device on the hook of the tower crane that provides warning announcement to the workers working underneath the lifting operation. The warning announcement is designed to be activated by a remote control operated by the

banksman of the tower crane. The Contractor confirmed that the device was accidentally activated on 5 August 2014 in the evening. Immediately after the receipt of the complaint, the Contractor has sent an electrician back to the Project Site to turn off the device. To ensure that this incident does not occur in the future, the Contractor will cut off the power of the device before the workers leave the site on a daily basis.

11 August 2014

GCL received a noise complaint from a resident living on Chancery Lane, regarding construction noise from manual construction activities at the upper platform area of the CPS site. Monitoring results showed compliance with construction noise standard. The Contractor had a meeting with the complainant. After the meeting, it was agreed that the time of commencement of the mentioned construction works at upper platform area would be postponed to after 9:00am on a daily basis. Also, the operation team and works contractor have been reminded to handle the scaffold materials and other works activities with care to avoid causing noise nuisance as much as possible.

28 August 2014

EPD received a noise complaint from a resident living on the Chancery Lane regarding construction noise from manual construction activities within the CPS site. The noise nuisance is suspected to be related to loading and unloading of rebar at the upper platform area during normal working hours. Monitoring results showed compliance with construction noise standard. The time of commencement of the mentioned construction works at upper platform area was postponed to after 9:00am on a daily basis. Also, the operation team and works contractor have been reminded to perform material handling and other works activities with care to avoid causing noise nuisance as much as possible.

22 September 2014

EPD received a noise complaint from a resident living on the Chancery Lane regarding excessive construction noise emanated from the CPS Project Site between 0745 to 0900 hours on 22 September 2014. The noise nuisance is suspected to be related to handling of rebars after 0800 hours during normal working hours. Monitoring results showed compliance with construction noise standard. The time of commencement of the mentioned construction works at upper platform area was postponed to after 9:00am on a daily basis. Also, the operation team and works contractors have been reminded to carry out material handling and other works activities with care to avoid causing noise nuisance.

26 September 2014

EPD received a noise complaint from a resident living on the Chancery Lane regarding noise from concrete breaking works at the CPS site in the afternoon

of 26 September 2014. The noise nuisance is suspected to be related to concrete breaking works at the rooftop of Block 14 during normal working hours. Monitoring results showed compliance with construction noise standard. The operation team stopped the concrete breaking works at Block 14 rooftop immediately after the receipt of the complaint. The works contractor later erected acoustic curtain to screen the direct line of sight of the complainant to the Block 14 rooftop prior to resuming the concrete breaking works.

17 October 2014

EPD received a noise complaint from a resident living on the Chancery Lane regarding noise from concrete breaking works at the CPS site in the morning of 17 October 2014. The noise nuisance is suspected to be related to the concrete breaking works for the removal of existing rendering and kerb at the rooftop of Block 17 during normal working hours. Monitoring results showed compliance with construction noise standard. The operation team stopped the concrete breaking works at Block 17 rooftop immediately after the receipt of the complaint. GCL has requested the works contractor to erect acoustic curtain to screen the direct line of sight of the complainant to the Block 17 rooftop prior to resuming the concrete breaking works.

Cumulative number of complaints and the complaint investigation reports are presented in *Annex J*.

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 *Annex J*.

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 8.1 Comparison 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
			$L_{eq, 30\ min}$ dB(A)	$L_{eq, 30\ min}$ dB(A)	$L_{eq, 30\ min}$ dB(A)
November 2013	NM2	N2	75	67 - 72	67.5 – 72.3
	NM6	N6	75	73 - 75	65.3 – 73.4
December 2013	NM2	N2	75	67 - 72	67.0 – 70.7
	NM6	N6	75	73 - 75	67.2 – 69.5
January 2014	NM2	N2	75	67 - 72	66.4 – 70.2
	NM6	N6	75	73 - 75	65.4 – 68.7
February 2014	NM2	N2	75	67 - 72	63.0 – 72.2
	NM6	N6	75	73 - 75	63.8 – 73.3
March 2014	NM2	N2	75	67 - 72	68.2 – 72.1
	NM6	N6	75	73 - 75	66.7 – 73.4
April 2014	NM2	N2	75	67 - 72	66.8 – 71.9
	NM6	N6	75	73 - 75	67.2 – 68.6
May 2014	NM2	N2	75	67 - 72	66.5 – 70.2
	NM6	N6	75	73 - 75	66.0 – 68.3
June 2014	NM2	N2	75	67 - 72	68.3 – 71.9
	NM6	N6	75	73 - 75	66.6 – 68.2
July 2014	NM2	N2	75	67 - 72	65.3 – 69.9
	NM6	N6	75	73 - 75	67.8 – 70.1
August 2014	NM2	N2	75	67 - 72	65.4 – 69.7
	NM6	N6	75	73 - 75	66.5 – 69.1
September 2014	NM2	N2	75	67 - 72	65.8 – 69.2
	NM6	N6	75	73 - 75	66.3 – 70.4
October 2014	NM2	N2	75	67 - 72	65.9 – 70.7
	NM6	N6	75	73 - 75	65.5 – 74.7

The monitoring results recorded since the commencement of the construction works have been well 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 higher than 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.

Table 8.2 ***Quantity 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	28,416.4 m^3
Amount of C&D Materials (Non-inert) Arising	890 m^3	5,542.9 m^3
General Refuse	130 kg per day	- [c]
Chemical Waste	Less than 100L per month	- 57 L
		- 395 kg
		- 7,000 kg of asbestos generated

Notes:

(a) The accumulated actual amount of C&D Materials and chemical waste were 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 October 2014.

(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 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 third Annual EM&A review Report presents the EM&A works undertaken during the reporting period from 1 November 2013 to 31 October 2014 in accordance with EM&A Manual and the requirements under EP-408/2011/B.

Thirteen exceedances of Action Level of construction noise (complaints received) were recorded during the reporting period. No exceedance of Limit Level of construction noise was recorded at the 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 Alarm and Action Levels of vibration was recorded during the reporting period. An exceedance of Alert Level of vibration was recorded at monitoring location VM8-1 on 5 November 2013. Gammon Construction Limited (GCL) has been notified of the exceedance.

No enquiry was received during the reporting period.

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

Thirteen complaints were received during the reporting period.

No summons/prosecution was received during the reporting period.

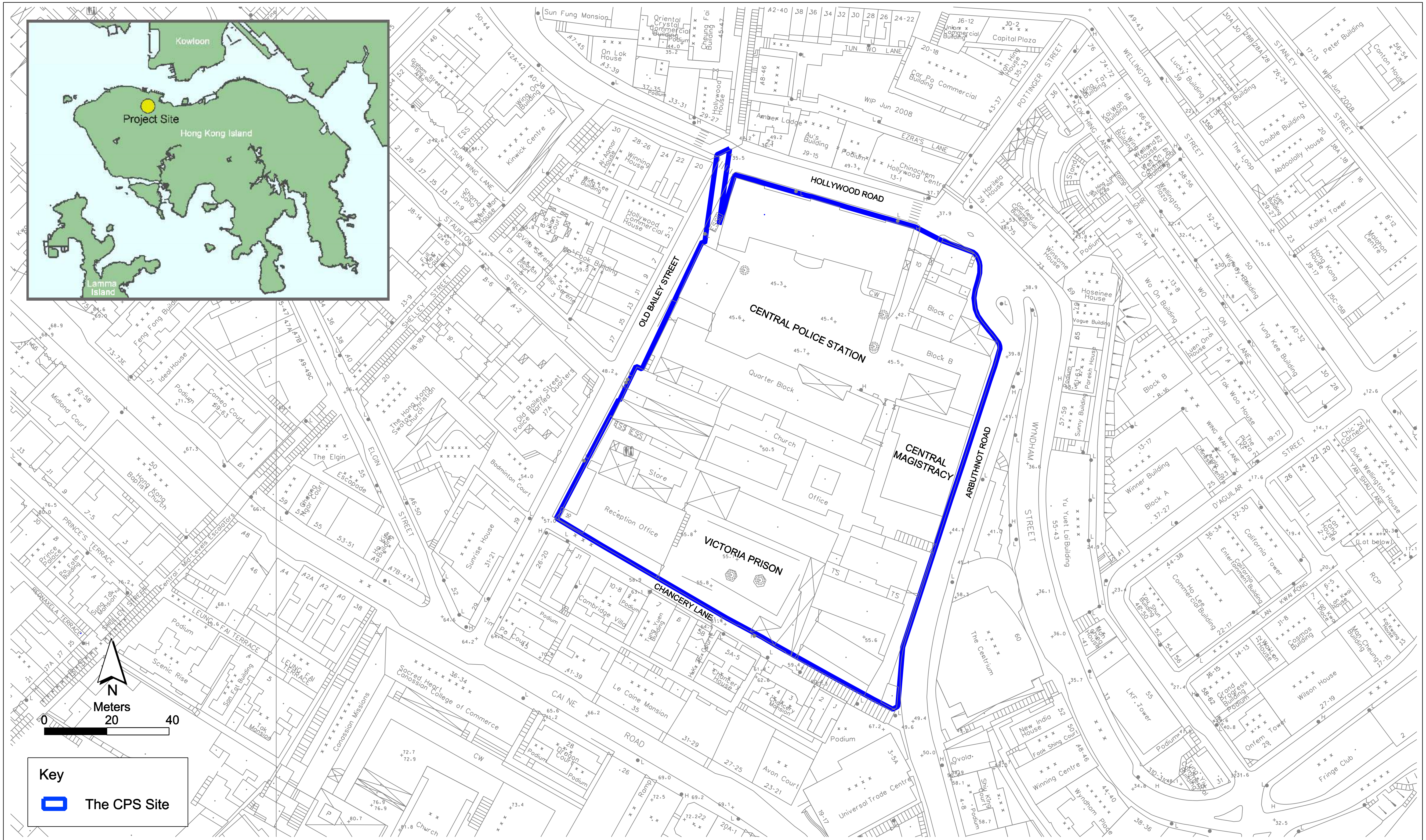
The monitoring programme was considered effective in reflecting the environmental conditions at the designated representative sensitive receivers. The monitoring results also indicate that the Project have not caused adverse impacts on the environment with implementation of appropriate mitigation measures. 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.

Annex A

Location of Works Areas and the Surroundings

Annex A1

Project Location



Annex A1

Project Location

FILE: 0095646a-A3_01.dgn

DATE: 21/11/2011

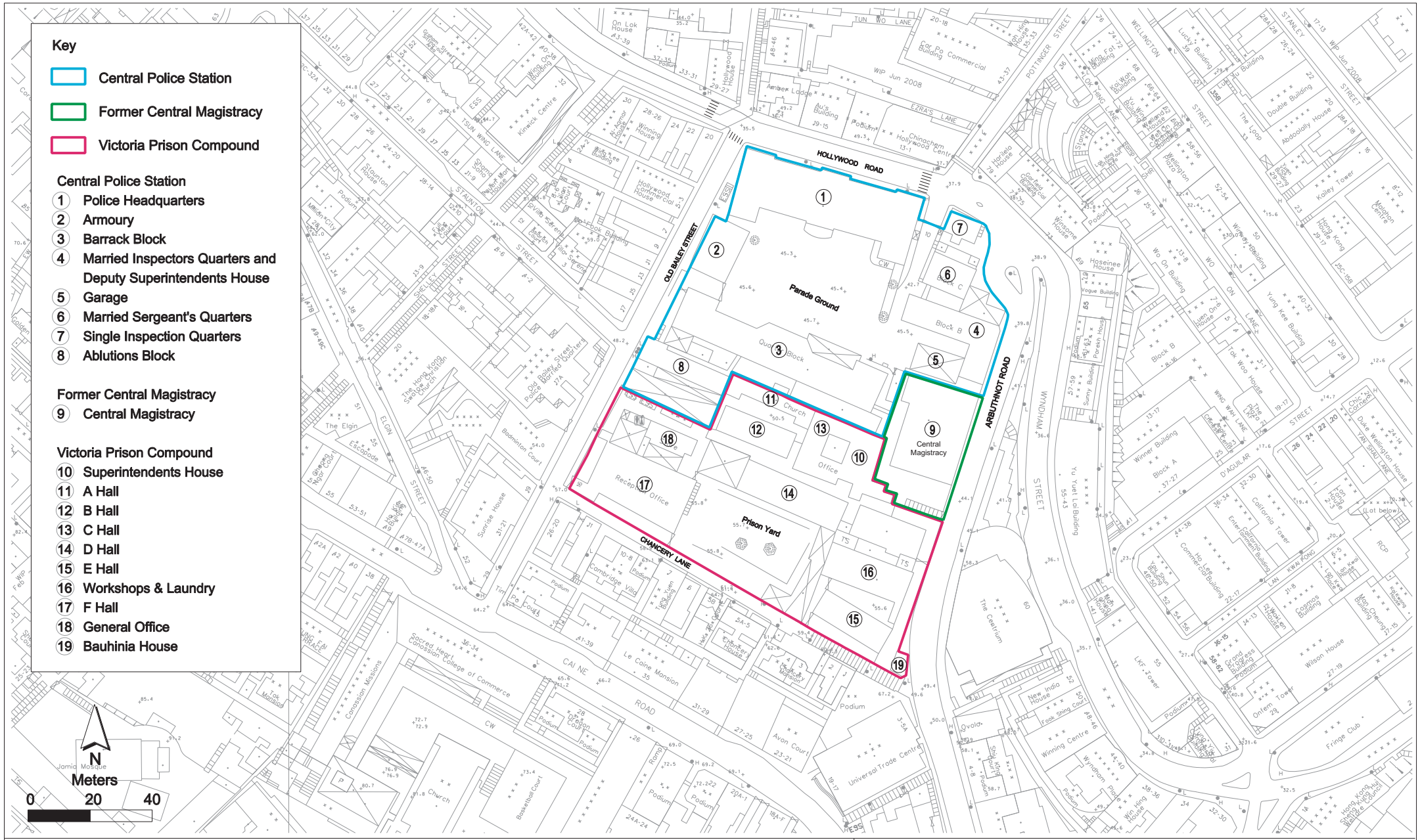
Environmental Resources Management

ERM

賽馬會文物保育有限公司
The Jockey Club CPS Limited

Annex A2

Declared Monuments within the Project Site



Annex A2

Declared Monuments within the Project Site

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

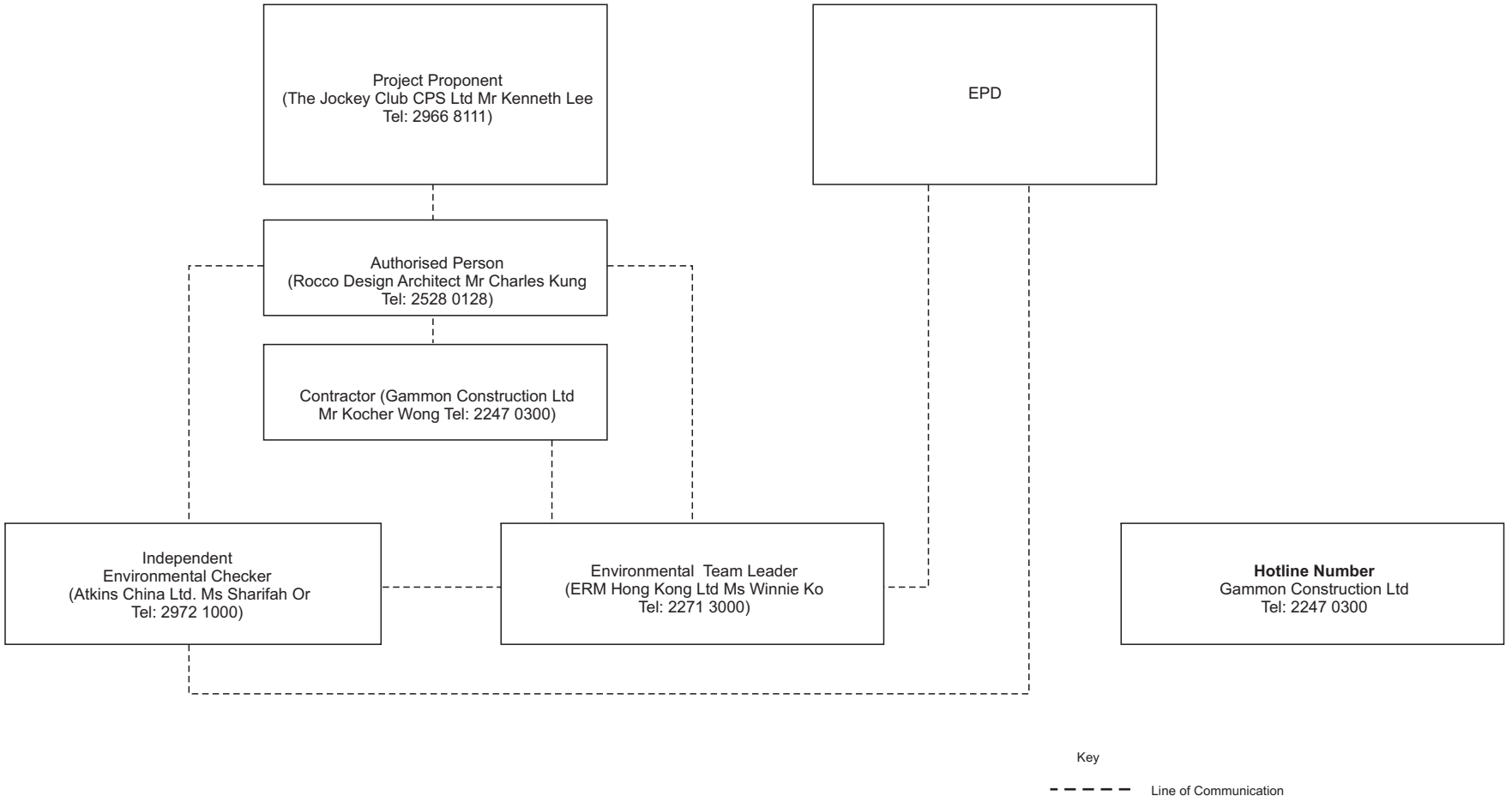
Environmental Resources Management

ERM

賽馬會文物保育有限公司
The Jockey Club CPS Limited

Annex B

Project Organization Chart and Contact Detail



Annex B

Project Organisation

FILE: 0095646k
DATE: 07/12/2011

Environmental Resources Management

ERM

賽馬會文物保育有限公司
The Jockey Club CPS Limited

Annex C

Locations of Noise Monitoring Stations and Noise Sensitive Receivers

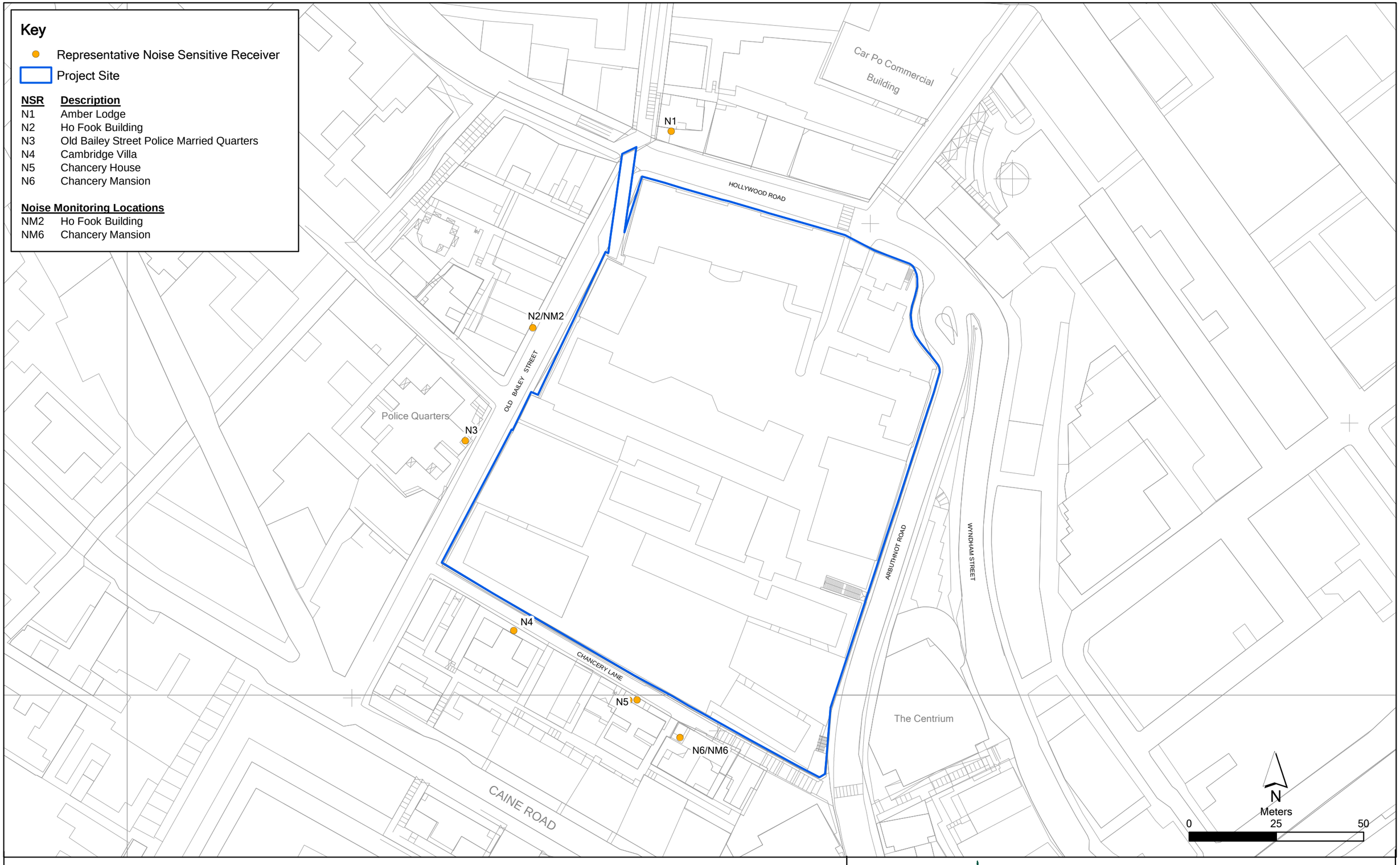
Key

- Representative Noise Sensitive Receiver
- Project Site

NSR	Description
N1	Amber Lodge
N2	Ho Fook Building
N3	Old Bailey Street Police Married Quarters
N4	Cambridge Villa
N5	Chancery House
N6	Chancery Mansion

Noise Monitoring Locations

NM2	Ho Fook Building
NM6	Chancery Mansion



Annex C

Location of Representative Noise Sensitive Receivers and Noise Monitoring Locations

File: 0095646_NSR_NM_May2012.mxd
Date: 09/05/2012

Environmental Resources Management

ERM

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The Jockey Club CPS Limited

Annex D

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. : C137683
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC13-3109)

Description / 儀器名稱 : Sound Level Calibrator
Manufacturer / 製造商 : Rion
Model No. / 型號 : NC-73
Serial No. / 編號 : 10486660
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
Relative Humidity / 相對濕度 : (55 ± 20)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 3 December 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

Tested By 測試 : K C Lee

Certified By 核證 : K M Wu

Date of Issue 簽發日期 : 4 December 2013

Sun Creation Engineering Limited – Calibration & Testing Laboratory
Unit 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
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

Certificate of Calibration
校正證書

Certificate No. : C137683
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	Description	Certificate No.
CL130	Universal Counter	C133632
CL281	Multifunction Acoustic Calibrator	DC130171
TST150A	Measuring Amplifier	C120886

4. Test procedure : MA100N.

5. Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	93.8	± 0.5	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	0.991	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.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
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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. : C134306
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC13-1709)

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
Relative Humidity / 相對濕度 : (55 ± 20)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 12 July 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

Tested By 測試 : K C Lee

Certified By 核證 : K M Wu

Date of Issue 簽發日期 : 15 July 2013

Sun Creation Engineering Limited – Calibration & Testing Laboratory
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Certificate of Calibration
校正證書

Certificate No. : C134306
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	Description	Certificate No.
CL130	Universal Counter	C133632
CL281	Multifunction Acoustic Calibrator	DC130171
TST150A	Measuring Amplifier	C120886

4. Test procedure : MA100N.

5. Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	93.8	± 0.5	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (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.

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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. : C144214
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC14-1719) Date of Receipt / 收件日期 : 9 July 2014

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 Relative Humidity / 相對濕度 : (55 ± 20)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 15 July 2014

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

Tested By 測試 : H C Chan, Engineer

Certified By 核證 : K K Wong, Engineer

Date of Issue 簽發日期 : 16 July 2014

Sun Creation Engineering Limited – Calibration & Testing Laboratory
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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. : C144214
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	Description	Certificate No.
CL130	Universal Counter	C143868
CL281	Multifunction Acoustic Calibrator	DC130171
TST150A	Measuring Amplifier	C141558

4. Test procedure : MA100N.

5. Results :

5.1 Sound Level Accuracy

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

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (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.

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Sun Creation Engineering Limited
Calibration and Testing Laboratory

Certificate of Calibration
校正證書

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
Relative Humidity / 相對濕度 : (55 ± 20)%
Line Voltage / 電壓 : ---

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

Tested By 測試 : K C Lee

Certified By 核證 : K K Wong

Date of Issue 簽發日期 : 17 June 2013

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Certificate of Calibration
校正證書

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 :

Equipment ID	Description	Certificate No.
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

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

6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
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. : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

6.2 Time Weighting

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

Certificate of Calibration
校正證書

Certificate No. : C133573
證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 120	L_A	A	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 ± 1.6
					4 kHz	94.8	+1.0 ± 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

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 120	L_C	C	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 : ± 0.20 dB
2 kHz - 4 kHz : ± 0.35 dB
8 kHz : ± 0.45 dB
12.5 kHz : ± 0.70 dB
104 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)
114 dB : 1 kHz : ± 0.10 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.

Sun Creation Engineering Limited – Calibration & Testing Laboratory
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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. : C141622
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC14-0645) Date of Receipt / 收件日期 : 11 March 2014

Description / 儀器名稱 : Sound Level Meter
Manufacturer / 製造商 : Rion
Model No. / 型號 : NL-52
Serial No. / 編號 : 00131627
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 Relative Humidity / 相對濕度 : (55 ± 20)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 17 March 2014

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 : K C Lee, Project Engineer

Certified By 核證 : K M Wu, Engineer

Date of Issue 簽發日期 : 20 March 2014

Sun Creation Engineering Limited – Calibration & Testing Laboratory
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Certificate of Calibration
校正證書

Certificate No. : C141622
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 :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C140016
CL281	Multifunction Acoustic Calibrator	DC130171

5. Test procedure : MA101N.

6. Results :

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 130	L_A	A	Fast	94.00	1	94.1	± 1.1

6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
30 - 130	L_A	A	Fast	94.00	1	94.1 (Ref.)
				104.00		104.1
				114.00		114.1

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

6.2 Time Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 130	L_A	A	Fast	94.00	1	94.1	Ref.
			Slow			94.1	± 0.3

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Certificate of Calibration
校正證書

Certificate No. : C141622
證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 130	L_A	A	Fast	94.00	63 Hz	67.8	-26.2 ± 1.5
					125 Hz	77.8	-16.1 ± 1.5
					250 Hz	85.4	-8.6 ± 1.4
					500 Hz	90.8	-3.2 ± 1.4
					1 kHz	94.1	Ref.
					2 kHz	95.3	+1.2 ± 1.6
					4 kHz	95.1	+1.0 ± 1.6
					8 kHz	93.0	-1.1 (+2.1 ; -3.1)
					12.5 kHz	89.6	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 130	L_A	C	Fast	94.00	63 Hz	93.2	-0.8 ± 1.5
					125 Hz	93.8	-0.2 ± 1.5
					250 Hz	94.0	0.0 ± 1.4
					500 Hz	94.1	0.0 ± 1.4
					1 kHz	94.1	Ref.
					2 kHz	93.9	-0.2 ± 1.6
					4 kHz	93.3	-0.8 ± 1.6
					8 kHz	91.1	-3.0 (+2.1 ; -3.1)
					12.5 kHz	87.7	-6.2 (+3.0 ; -6.0)

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 04663

- 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	: ± 0.20 dB
	2 kHz - 4 kHz	: ± 0.35 dB
	8 kHz	: ± 0.45 dB
	12.5 kHz	: ± 0.70 dB
104 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)
114 dB	: 1 kHz	: ± 0.10 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.

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Annex E

Event/Action Plans for Noise

Table E Event and Action Plan for Construction Noise Monitoring

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

Annex F

Summary of Implementation Status

Annex F Implementation Schedule for Environmental Protection Measures

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Cultural Heritage					
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	*Vibration Monitoring* 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	√
S3.9.2	S3.3.3	*Compliance of the Approved Measures and Auditing* 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	√

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	*Archival Recording* 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	-	*General Construction Methods* 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	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		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.			
S3.7.1 & 3.7.2	-	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 cross referenced location plans and photo records. One set of updated CMP shall be submitted to the AMO for approval before the operation stage of the project.	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
Landscape & Visual					
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	√ - 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. Scaffolding has been set up close to Tree-5 within the cordon zone. The Contractor was reminded to perform proper measures to protect Tree-5 during the carrying out of works within the cordon zone.
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	√

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* 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 (*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. 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.	Whole site	During construction	√
S4.7.2	-	*Light Control* Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs.	Whole site	During construction and operation	√
S4.7.2	S4	*Compensatory Tree Planting* 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 (*Table 4.3*), 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	<u>*Vertical Greening*</u> Within the limitations of the conservation of the CPS character, 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	Inner Southern Wall	During detailed design and construction	N/A – No vertical greening was conducted during the reporting month.

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	-	***New Custom Paving*** 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	*In-situ Tree Protection - Quarterly inspection* 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					
S5.9	-	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	√

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.			
S5.9	-	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	√
S5.9	-	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	√
S5.9	-	Use quiet PME as far as practicable to mitigate the construction noise impact.	Whole Site	During construction	√
S5.9	-	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 Quality					
S6.8.1	-	Dust control measures stipulated in the *Air Pollution Control (Construction Dust) Regulation* 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	√
S6.8.1	-	Vehicle washing facilities will be provided at the designated vehicle exit points.	Whole Site	During construction	√
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	√
S6.8.1	-	Road sections between vehicle-wash areas and vehicular entrances will be paved.	Whole Site	During construction	√
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	√
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	√
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	√
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	√
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	√
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	√
S6.8.1	-	The engine of the construction equipment or trucks during idling will be switched off.	Whole Site	During construction	√
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	√
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 *Appendix A1* of *ProPECC PN 1/94*. 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	√
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	√

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 *ProPECC PN 1/94*. 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	√
S7.6	-	All fuel tanks and chemical storage areas will be provided with locks and be sited on paved areas.	Whole Site	During construction	√
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	√
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	√
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	√
Waste Management					
S8.5	S6.3.1 & Table 6.1	*General* 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	√
S8.5	-	*Management of Waste Disposal* 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	√

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	√
S8.5	S6.3	*Reduction of Construction Waste Generation* 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	√
S8.5	S6	*Chemical Waste* The contractor will register as a chemical waste producer with the EPD.	Whole Site	During construction and operation	√
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 *Schedule 2* of the *Regulations*.	Whole Site	During construction and operation	√
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	√
S8.5	S6 & Table 6.1	*General Refuse* 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	√
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	√
S8.5	S6	*Staff Training* 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	√
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:

√ 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 G

Noise Monitoring Results

Annex G - Cumulative Noise Monitoring Results

Station	Date	Noise Levels, dB(A) 30 mins			Limit Level, dB(A) 30 mins
		Leq	L10	L90	Leq
NM2 Ho Fook Building	26-Oct-11	62.6	64.4	60.7	75
NM2 Ho Fook Building	01-Nov-11	63.4	64.8	60.7	75
NM2 Ho Fook Building	07-Nov-11	64.1	65.4	61.9	75
NM2 Ho Fook Building	16-Nov-11	64.9	66.6	62.0	75
NM2 Ho Fook Building	24-Nov-11	65.4	66.8	63.5	75
NM2 Ho Fook Building	30-Nov-11	63.7	65.0	62.5	75
NM2 Ho Fook Building	06-Dec-11	66.0	67.8	64.0	75
NM2 Ho Fook Building	12-Dec-11	64.3	66.4	62.3	75
NM2 Ho Fook Building	21-Dec-11	64.5	66.5	61.8	75
NM2 Ho Fook Building	29-Dec-11	68.4	71.6	63.5	75
NM2 Ho Fook Building	05-Jan-12	68.5	70.7	66.0	75
NM2 Ho Fook Building	11-Jan-12	67.5	68.8	63.0	75
NM2 Ho Fook Building	17-Jan-12	66.4	68.4	62.8	75
NM2 Ho Fook Building	28-Jan-12	63.4	65.2	60.2	75
NM2 Ho Fook Building	03-Feb-12	62.3	65.0	59.6	75
NM2 Ho Fook Building	09-Feb-12	65.3	66.7	62.9	75
NM2 Ho Fook Building	15-Feb-12	66.3	68.8	63.0	75
NM2 Ho Fook Building	21-Feb-12	66.6	68.6	63.4	75
NM2 Ho Fook Building	27-Feb-12	64.9	66.4	63.3	75
NM2 Ho Fook Building	03-Mar-12	64.1	65.6	62.4	75
NM2 Ho Fook Building	09-Mar-12	67.7	69.2	64.9	75
NM2 Ho Fook Building	15-Mar-12	64.7	66.1	61.5	75
NM2 Ho Fook Building	21-Mar-12	63.6	65.8	60.8	75
NM2 Ho Fook Building	27-Mar-12	68.9	70.4	66.7	75
NM2 Ho Fook Building	02-Apr-12	63.7	66.0	60.2	75
NM2 Ho Fook Building	10-Apr-12	71.9	75.6	63.9	75
NM2 Ho Fook Building	16-Apr-12	63.6	65.2	61.8	75
NM2 Ho Fook Building	21-Apr-12	64.2	65.8	61.6	75
NM2 Ho Fook Building	27-Apr-12	65.8	67.5	63.8	75
NM2 Ho Fook Building	03-May-12	64.4	66.0	61.6	75
NM2 Ho Fook Building	09-May-12	65.0	66.6	62.8	75
NM2 Ho Fook Building	15-May-12	65.2	67.2	63.3	75
NM2 Ho Fook Building	21-May-12	68.6	70.8	66.3	75
NM2 Ho Fook Building	26-May-12	65.9	67.6	63.1	75
NM2 Ho Fook Building	01-Jun-12	67.5	69.2	65.1	75
NM2 Ho Fook Building	07-Jun-12	64.1	65.9	61.9	75
NM2 Ho Fook Building	13-Jun-12	66.0	67.7	63.5	75
NM2 Ho Fook Building	19-Jun-12	64.5	66.4	61.9	75
NM2 Ho Fook Building	25-Jun-12	63.6	65.3	61.8	75
NM2 Ho Fook Building	30-Jun-12	63.3	64.5	61.8	75
NM2 Ho Fook Building	06-Jul-12	65.6	67.8	63.5	75
NM2 Ho Fook Building	12-Jul-12	64.1	65.9	61.9	75
NM2 Ho Fook Building	18-Jul-12	65.2	66.6	63.2	75
NM2 Ho Fook Building	24-Jul-12	64.0	65.7	61.2	75
NM2 Ho Fook Building	30-Jul-12	65.5	67.3	62.6	75
NM2 Ho Fook Building	04-Aug-12	65.4	66.8	62.3	75
NM2 Ho Fook Building	10-Aug-12	63.7	65.8	62.0	75
NM2 Ho Fook Building	16-Aug-12	69.0	71.2	66.0	75
NM2 Ho Fook Building	22-Aug-12	68.4	70.1	65.6	75
NM2 Ho Fook Building	28-Aug-12	69.5	70.6	67.4	75
NM2 Ho Fook Building	03-Sep-12	69.4	71.1	67.5	75
NM2 Ho Fook Building	08-Sep-12	69.2	70.7	66.1	75

Annex G - Cumulative Noise Monitoring Results

Station	Date	Noise Levels, dB(A) 30 mins			Limit Level, dB(A) 30 mins
		Leq	L10	L90	Leq
NM2 Ho Fook Building	14-Sep-12	66.4	68.7	63.8	75
NM2 Ho Fook Building	20-Sep-12	66.0	68.0	63.5	75
NM2 Ho Fook Building	26-Sep-12	67.5	69.5	64.1	75
NM2 Ho Fook Building	03-Oct-12	68.2	69.9	64.6	75
NM2 Ho Fook Building	09-Oct-12	66.4	68.1	63.2	75
NM2 Ho Fook Building	15-Oct-12	68.5	70.0	65.9	75
NM2 Ho Fook Building	20-Oct-12	64.1	66.4	62.0	75
NM2 Ho Fook Building	26-Oct-12	66.2	68.4	62.4	75
NM2 Ho Fook Building	01-Nov-12	66.2	67.8	63.0	75
NM2 Ho Fook Building	07-Nov-12	65.2	67.3	63.1	75
NM2 Ho Fook Building	13-Nov-12	64.1	66.2	61.7	75
NM2 Ho Fook Building	19-Nov-12	67.6	69.2	63.4	75
NM2 Ho Fook Building	24-Nov-12	65.9	67.6	63.0	75
NM2 Ho Fook Building	30-Nov-12	67.0	68.5	64.2	75
NM2 Ho Fook Building	06-Dec-12	63.4	65.9	61.0	75
NM2 Ho Fook Building	12-Dec-12	64.6	66.3	62.3	75
NM2 Ho Fook Building	18-Dec-12	65.5	67.6	62.9	75
NM2 Ho Fook Building	24-Dec-12	65.2	67.5	61.7	75
NM2 Ho Fook Building	29-Dec-12	63.6	65.3	61.5	75
NM2 Ho Fook Building	04-Jan-13	64.4	66.0	62.5	75
NM2 Ho Fook Building	10-Jan-13	64.9	66.6	62.8	75
NM2 Ho Fook Building	16-Jan-13	73.1	74.6	71.5	75
NM2 Ho Fook Building	22-Jan-13	65.5	68.7	61.7	75
NM2 Ho Fook Building	28-Jan-13	71.2	74.2	67.9	75
NM2 Ho Fook Building	02-Feb-13	71.5	73.6	67.8	75
NM2 Ho Fook Building	08-Feb-13	64.6	66.6	62.0	75
NM2 Ho Fook Building	14-Feb-13	65.5	67.4	61.5	75
NM2 Ho Fook Building	20-Feb-13	72.7	74.2	70.1	75
NM2 Ho Fook Building	26-Feb-13	68.4	70.4	65.0	75
NM2 Ho Fook Building	04-Mar-13	64.7	66.4	62.2	75
NM2 Ho Fook Building	09-Mar-13	66.3	68.3	63.9	75
NM2 Ho Fook Building	15-Mar-13	69.6	71.5	67.2	75
NM2 Ho Fook Building	21-Mar-13	68.9	70.8	65.5	75
NM2 Ho Fook Building	27-Mar-13	71.2	73.5	67.7	75
NM2 Ho Fook Building	02-Apr-13	65.7	67.5	63.4	75
NM2 Ho Fook Building	08-Apr-13	70.2	72.7	67.5	75
NM2 Ho Fook Building	13-Apr-13	70.4	71.9	67.2	75
NM2 Ho Fook Building	19-Apr-13	65.8	67.3	62.9	75
NM2 Ho Fook Building	25-Apr-13	70.9	72.7	67.5	75
NM2 Ho Fook Building	30-Apr-13	65.7	67.1	63.0	75
NM2 Ho Fook Building	06-May-13	67.2	69.0	63.8	75
NM2 Ho Fook Building	11-May-13	67.0	68.9	64.2	75
NM2 Ho Fook Building	16-May-13	67.4	69.1	63.6	75
NM2 Ho Fook Building	22-May-13	65.1	67.0	62.3	75
NM2 Ho Fook Building	28-May-13	70.8	72.1	69.3	75
NM2 Ho Fook Building	03-Jun-13	68.8	70.5	66.2	75
NM2 Ho Fook Building	08-Jun-13	68.7	70.3	66.5	75
NM2 Ho Fook Building	14-Jun-13	67.8	69.3	65.3	75
NM2 Ho Fook Building	20-Jun-13	66.4	67.8	63.2	75
NM2 Ho Fook Building	26-Jun-13	66.5	68.1	64.8	75
NM2 Ho Fook Building	02-Jul-13	66.9	68.4	64.8	75
NM2 Ho Fook Building	08-Jul-13	70.8	72.6	66.6	75

Annex G - Cumulative Noise Monitoring Results

Station	Date	Noise Levels, dB(A) 30 mins			Limit Level, dB(A) 30 mins
		Leq	L10	L90	Leq
NM2 Ho Fook Building	13-Jul-13	68.8	70.4	67.1	75
NM2 Ho Fook Building	19-Jul-13	66.3	67.6	63.9	75
NM2 Ho Fook Building	25-Jul-13	66.3	67.7	64.5	75
NM2 Ho Fook Building	31-Jul-13	66.2	67.6	64.4	75
NM2 Ho Fook Building	06-Aug-13	68.1	69.5	66.7	75
NM2 Ho Fook Building	12-Aug-13	70.5	72.3	68.1	75
NM2 Ho Fook Building	17-Aug-13	68.9	70.3	65.8	75
NM2 Ho Fook Building	23-Aug-13	69.5	70.9	66.2	75
NM2 Ho Fook Building	29-Aug-13	73.6	75.6	71.5	75
NM2 Ho Fook Building	04-Sep-13	66.5	68.0	64.2	75
NM2 Ho Fook Building	10-Sep-13	68.1	70.2	66.1	75
NM2 Ho Fook Building	16-Sep-13	69.3	71.5	66.2	75
NM2 Ho Fook Building	21-Sep-13	68.6	70.2	65.8	75
NM2 Ho Fook Building	27-Sep-13	68.2	69.5	65.6	75
NM2 Ho Fook Building	03-Oct-13	70.2	72.4	66.5	75
NM2 Ho Fook Building	09-Oct-13	67.6	69.9	65.4	75
NM2 Ho Fook Building	15-Oct-13	68.3	69.9	66.0	75
NM2 Ho Fook Building	21-Oct-13	69.8	71.3	66.6	75
NM2 Ho Fook Building	26-Oct-13	68.3	69.8	66.0	75
NM2 Ho Fook Building	01-Nov-13	67.5	69.7	65.7	75
NM2 Ho Fook Building	07-Nov-13	67.6	69.5	65.7	75
NM2 Ho Fook Building	13-Nov-13	72.0	75.6	66.6	75
NM2 Ho Fook Building	19-Nov-13	72.3	75.2	67.4	75
NM2 Ho Fook Building	25-Nov-13	69.3	71.1	66.8	75
NM2 Ho Fook Building	30-Nov-13	69.6	71.8	66.0	75
NM2 Ho Fook Building	06-Dec-13	68.2	71.0	64.3	75
NM2 Ho Fook Building	12-Dec-13	70.7	72.0	66.7	75
NM2 Ho Fook Building	18-Dec-13	70.7	73.4	67.1	75
NM2 Ho Fook Building	24-Dec-13	70.7	72.2	67.2	75
NM2 Ho Fook Building	30-Dec-13	67.0	69.1	63.4	75
NM2 Ho Fook Building	04-Jan-14	70.2	71.9	65.8	75
NM2 Ho Fook Building	10-Jan-14	67.0	69.5	63.2	75
NM2 Ho Fook Building	16-Jan-14	66.4	68.7	62.6	75
NM2 Ho Fook Building	22-Jan-14	67.5	69.1	65.7	75
NM2 Ho Fook Building	28-Jan-14	69.8	72.4	66.2	75
NM2 Ho Fook Building	04-Feb-14	63.0	64.7	59.0	75
NM2 Ho Fook Building	10-Feb-14	66.1	67.9	62.8	75
NM2 Ho Fook Building	15-Feb-14	65.8	67.4	63.1	75
NM2 Ho Fook Building	21-Feb-14	72.2	73.4	69.8	75
NM2 Ho Fook Building	27-Feb-14	70.3	71.9	67.0	75
NM2 Ho Fook Building	05-Mar-14	71.5	73.3	68.7	75
NM2 Ho Fook Building	11-Mar-14	68.2	71.1	63.5	75
NM2 Ho Fook Building	17-Mar-14	72.0	74.1	67.3	75
NM2 Ho Fook Building	22-Mar-14	71.3	72.9	66.9	75
NM2 Ho Fook Building	28-Mar-14	72.1	74.1	69.5	75
NM2 Ho Fook Building	03-Apr-14	66.8	68.5	64.2	75
NM2 Ho Fook Building	09-Apr-14	67.5	70.1	64.6	75
NM2 Ho Fook Building	14-Apr-14	71.9	73.7	69.9	75
NM2 Ho Fook Building	17-Apr-14	71.0	72.7	68.9	75
NM2 Ho Fook Building	23-Apr-14	71.0	72.7	69.1	75
NM2 Ho Fook Building	29-Apr-14	70.7	72.3	68.4	75
NM2 Ho Fook Building	05-May-14	70.2	71.8	67.6	75

Annex G - Cumulative Noise Monitoring Results

Station	Date	Noise Levels, dB(A) 30 mins			Limit Level, dB(A) 30 mins
		Leq	L10	L90	Leq
NM2 Ho Fook Building	10-May-14	69.7	71.4	66.9	75
NM2 Ho Fook Building	16-May-14	66.5	68.2	63.6	75
NM2 Ho Fook Building	22-May-14	68.0	70.8	64.6	75
NM2 Ho Fook Building	28-May-14	69.4	70.8	67.2	75
NM2 Ho Fook Building	03-Jun-14	68.4	70.2	65.5	75
NM2 Ho Fook Building	09-Jun-14	69.6	71.0	66.2	75
NM2 Ho Fook Building	14-Jun-14	68.3	69.7	65.3	75
NM2 Ho Fook Building	20-Jun-14	71.9	73.7	68.6	75
NM2 Ho Fook Building	26-Jun-14	69.0	70.6	65.5	75
NM2 Ho Fook Building	02-Jul-14	68.0	69.7	65.3	75
NM2 Ho Fook Building	08-Jul-14	69.9	72.0	66.9	75
NM2 Ho Fook Building	14-Jul-14	65.3	67.0	63.7	75
NM2 Ho Fook Building	19-Jul-14	65.6	66.7	63.7	75
NM2 Ho Fook Building	25-Jul-14	69.3	70.3	67.1	75
NM2 Ho Fook Building	31-Jul-14	69.8	71.2	66.0	75
NM2 Ho Fook Building	06-Aug-14	66.5	68.7	64.0	75
NM2 Ho Fook Building	12-Aug-14	65.4	67.4	63.9	75
NM2 Ho Fook Building	18-Aug-14	69.7	71.9	66.4	75
NM2 Ho Fook Building	23-Aug-14	69.6	71.7	66.8	75
NM2 Ho Fook Building	29-Aug-14	67.0	68.7	65.0	75
NM2 Ho Fook Building	04-Sep-14	69.0	71.0	66.1	75
NM2 Ho Fook Building	10-Sep-14	69.2	71.6	65.1	75
NM2 Ho Fook Building	16-Sep-14	65.8	67.2	63.9	75
NM2 Ho Fook Building	22-Sep-14	66.1	67.9	63.4	75
NM2 Ho Fook Building	27-Sep-14	66.9	68.3	63.8	75
NM2 Ho Fook Building	03-Oct-14	69.2	70.8	65.9	75
NM2 Ho Fook Building	08-Oct-14	65.9	68.0	64.2	75
NM2 Ho Fook Building	14-Oct-14	69.1	70.5	67.4	75
NM2 Ho Fook Building	20-Oct-14	69.7	71.5	66.7	75
NM2 Ho Fook Building	25-Oct-14	69.1	70.7	66.8	75
NM2 Ho Fook Building	31-Oct-14	70.7	72.8	67.3	75

Annex G - Cumulative Noise Monitoring Results

Station	Date	Noise Levels, dB(A) 30 mins			Limit Level, dB(A) 30 mins
		Leq	L10	L90	Leq
NM6 Chancery Mansion	26-Oct-11	63.3	64.6	62.0	75
NM6 Chancery Mansion	01-Nov-11	63.5	64.7	62.2	75
NM6 Chancery Mansion	07-Nov-11	62.6	64.2	60.3	75
NM6 Chancery Mansion	16-Nov-11	66.0	67.7	63.2	75
NM6 Chancery Mansion	24-Nov-11	64.6	66.3	63.2	75
NM6 Chancery Mansion	30-Nov-11	65.0	67.1	63.0	75
NM6 Chancery Mansion	06-Dec-11	67.8	69.5	64.8	75
NM6 Chancery Mansion	12-Dec-11	63.9	65.7	62.0	75
NM6 Chancery Mansion	21-Dec-11	63.2	64.7	61.3	75
NM6 Chancery Mansion	29-Dec-11	68.0	69.6	65.6	75
NM6 Chancery Mansion	05-Jan-12	70.6	71.8	66.8	75
NM6 Chancery Mansion	11-Jan-12	72.1	74.3	67.3	75
NM6 Chancery Mansion	17-Jan-12	69.6	71.3	66.2	75
NM6 Chancery Mansion	28-Jan-12	61.9	63.7	59.1	75
NM6 Chancery Mansion	03-Feb-12	63.1	65.0	60.2	75
NM6 Chancery Mansion	09-Feb-12	62.8	64.8	60.8	75
NM6 Chancery Mansion	15-Feb-12	65.3	67.1	62.2	75
NM6 Chancery Mansion	21-Feb-12	66.3	62.6	64.7	75
NM6 Chancery Mansion	27-Feb-12	63.8	65.6	61.0	75
NM6 Chancery Mansion	03-Mar-12	65.3	67.4	60.9	75
NM6 Chancery Mansion	09-Mar-12	71.7	73.1	68.8	75
NM6 Chancery Mansion	15-Mar-12	61.4	62.7	59.8	75
NM6 Chancery Mansion	21-Mar-12	67.7	69.6	65.0	75
NM6 Chancery Mansion	27-Mar-12	74.9	78.9	67.8	75
NM6 Chancery Mansion	02-Apr-12	62.2	63.2	61.0	75
NM6 Chancery Mansion	10-Apr-12	73.7	75.9	69.4	75
NM6 Chancery Mansion	16-Apr-12	67.4	69.6	64.7	75
NM6 Chancery Mansion	21-Apr-12	66.3	68.1	64.1	75
NM6 Chancery Mansion	27-Apr-12	69.6	71.8	65.8	75
NM6 Chancery Mansion	03-May-12	65.3	67.2	62.6	75
NM6 Chancery Mansion	09-May-12	65.0	67.0	63.2	75
NM6 Chancery Mansion	15-May-12	66.5	68.4	64.2	75
NM6 Chancery Mansion	21-May-12	66.6	68.7	64.3	75
NM6 Chancery Mansion	26-May-12	66.2	67.8	63.5	75
NM6 Chancery Mansion	01-Jun-12	64.2	65.3	63.1	75
NM6 Chancery Mansion	07-Jun-12	66.4	67.5	63.2	75
NM6 Chancery Mansion	13-Jun-12	67.5	69.8	65.0	75
NM6 Chancery Mansion	19-Jun-12	65.6	67.2	63.4	75
NM6 Chancery Mansion	25-Jun-12	64.2	65.6	63.0	75
NM6 Chancery Mansion	30-Jun-12	64.0	65.3	63.0	75
NM6 Chancery Mansion	06-Jul-12	74.5	77.2	64.2	75
NM6 Chancery Mansion	12-Jul-12	64.6	66.2	61.9	75
NM6 Chancery Mansion	18-Jul-12	67.4	68.6	65.7	75
NM6 Chancery Mansion	24-Jul-12	63.7	65.4	60.7	75
NM6 Chancery Mansion	30-Jul-12	65.9	67.5	62.4	75
NM6 Chancery Mansion	04-Aug-12	64.7	66.5	61.8	75
NM6 Chancery Mansion	10-Aug-12	69.6	71.6	66.2	75
NM6 Chancery Mansion	16-Aug-12	66.0	67.4	64.9	75
NM6 Chancery Mansion	22-Aug-12	67.2	68.8	64.4	75
NM6 Chancery Mansion	28-Aug-12	67.1	68.7	65.2	75
NM6 Chancery Mansion	03-Sep-12	67.4	69.2	65.5	75
NM6 Chancery Mansion	08-Sep-12	68.7	71.5	65.3	75

Annex G - Cumulative Noise Monitoring Results

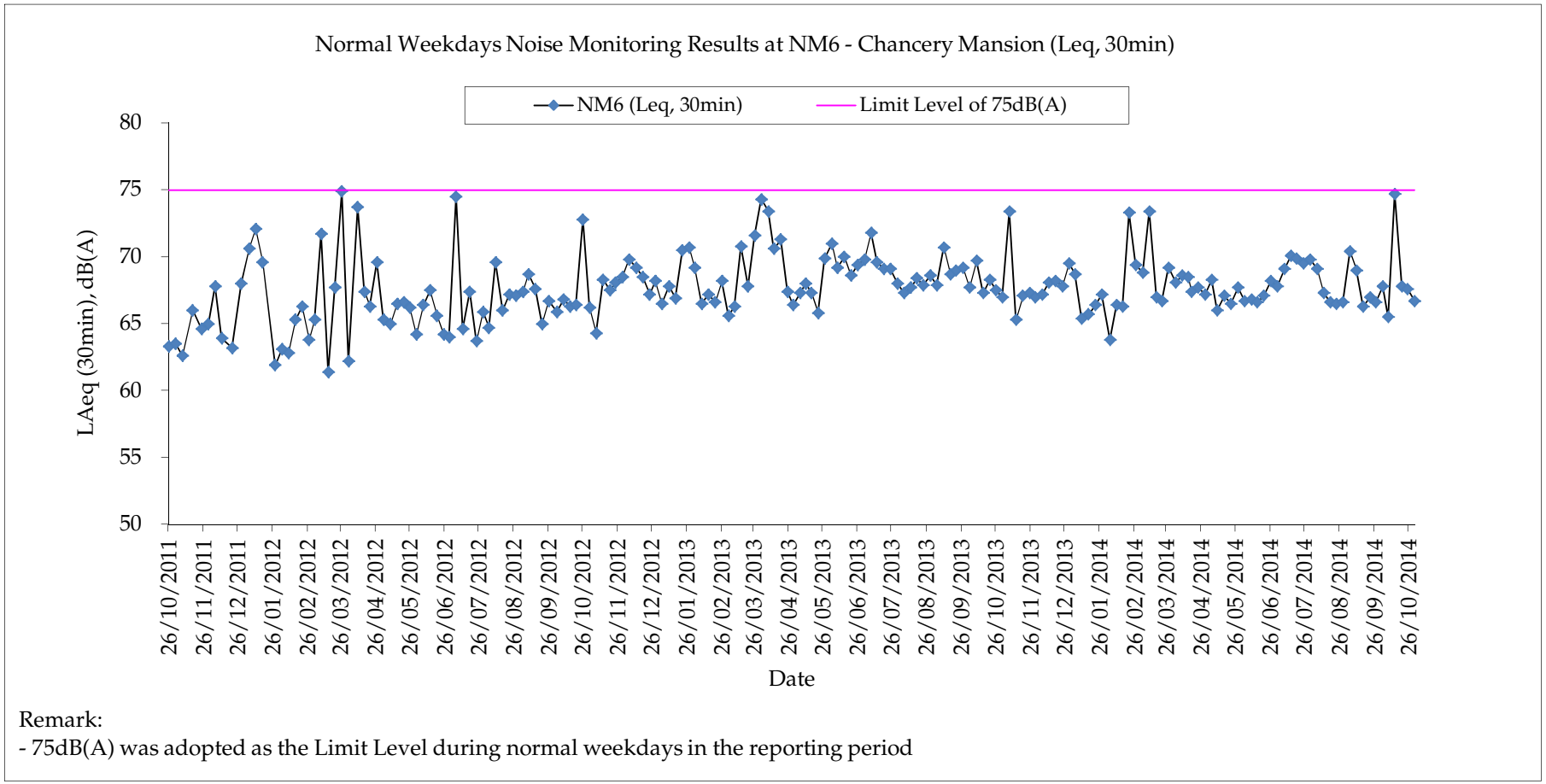
Station	Date	Noise Levels, dB(A) 30 mins			Limit Level, dB(A) 30 mins
		Leq	L10	L90	Leq
NM6 Chancery Mansion	14-Sep-12	67.6	69.5	64.9	75
NM6 Chancery Mansion	20-Sep-12	65.0	66.6	63.9	75
NM6 Chancery Mansion	26-Sep-12	66.7	68.3	63.9	75
NM6 Chancery Mansion	03-Oct-12	65.9	67.4	63.2	75
NM6 Chancery Mansion	09-Oct-12	66.8	68.5	63.5	75
NM6 Chancery Mansion	15-Oct-12	66.3	67.9	62.9	75
NM6 Chancery Mansion	20-Oct-12	66.4	68.2	62.4	75
NM6 Chancery Mansion	26-Oct-12	72.8	75.0	68.6	75
NM6 Chancery Mansion	01-Nov-12	66.2	67.8	63.3	75
NM6 Chancery Mansion	07-Nov-12	64.3	65.8	62.6	75
NM6 Chancery Mansion	13-Nov-12	68.3	69.1	67.5	75
NM6 Chancery Mansion	19-Nov-12	67.5	69.5	64.2	75
NM6 Chancery Mansion	24-Nov-12	68.1	69.5	64.3	75
NM6 Chancery Mansion	30-Nov-12	68.5	70.0	65.2	75
NM6 Chancery Mansion	06-Dec-12	69.8	71.0	68.5	75
NM6 Chancery Mansion	12-Dec-12	69.2	70.4	67.8	75
NM6 Chancery Mansion	18-Dec-12	68.5	69.6	67.5	75
NM6 Chancery Mansion	24-Dec-12	67.2	68.5	66.4	75
NM6 Chancery Mansion	29-Dec-12	68.2	69.2	66.3	75
NM6 Chancery Mansion	04-Jan-13	66.5	67.9	65.3	75
NM6 Chancery Mansion	10-Jan-13	67.8	69.2	66.3	75
NM6 Chancery Mansion	16-Jan-13	66.9	69.3	63.6	75
NM6 Chancery Mansion	22-Jan-13	70.5	73.2	67.8	75
NM6 Chancery Mansion	28-Jan-13	70.7	73.1	68.3	75
NM6 Chancery Mansion	02-Feb-13	69.2	71.5	67.6	75
NM6 Chancery Mansion	08-Feb-13	66.5	68.1	65.1	75
NM6 Chancery Mansion	14-Feb-13	67.2	69.2	65.0	75
NM6 Chancery Mansion	20-Feb-13	66.6	67.9	65.1	75
NM6 Chancery Mansion	26-Feb-13	68.2	70.2	65.7	75
NM6 Chancery Mansion	04-Mar-13	65.6	67.0	64.0	75
NM6 Chancery Mansion	09-Mar-13	66.3	67.6	64.8	75
NM6 Chancery Mansion	15-Mar-13	70.8	72.0	68.8	75
NM6 Chancery Mansion	21-Mar-13	67.8	69.5	64.3	75
NM6 Chancery Mansion	27-Mar-13	71.6	74.4	68.4	75
NM6 Chancery Mansion	02-Apr-13	74.3	76.7	71.3	75
NM6 Chancery Mansion	08-Apr-13	73.4	75.7	70.2	75
NM6 Chancery Mansion	13-Apr-13	70.6	72.9	67.8	75
NM6 Chancery Mansion	19-Apr-13	71.3	72.6	69.9	75
NM6 Chancery Mansion	25-Apr-13	67.4	69.1	65.2	75
NM6 Chancery Mansion	30-Apr-13	66.4	67.5	64.4	75
NM6 Chancery Mansion	06-May-13	67.3	68.7	64.5	75
NM6 Chancery Mansion	11-May-13	68.0	69.6	64.8	75
NM6 Chancery Mansion	16-May-13	67.3	68.9	64.3	75
NM6 Chancery Mansion	22-May-13	65.8	67.2	63.3	75
NM6 Chancery Mansion	28-May-13	69.9	71.1	68.9	75
NM6 Chancery Mansion	03-Jun-13	71.0	72.2	69.6	75
NM6 Chancery Mansion	08-Jun-13	69.2	70.7	67.6	75
NM6 Chancery Mansion	14-Jun-13	70.0	71.3	68.2	75
NM6 Chancery Mansion	20-Jun-13	68.6	70.0	67.4	75
NM6 Chancery Mansion	26-Jun-13	69.4	70.5	67.9	75
NM6 Chancery Mansion	02-Jul-13	69.8	71.4	67.9	75
NM6 Chancery Mansion	08-Jul-13	71.8	72.6	71.0	75

Annex G - Cumulative Noise Monitoring Results

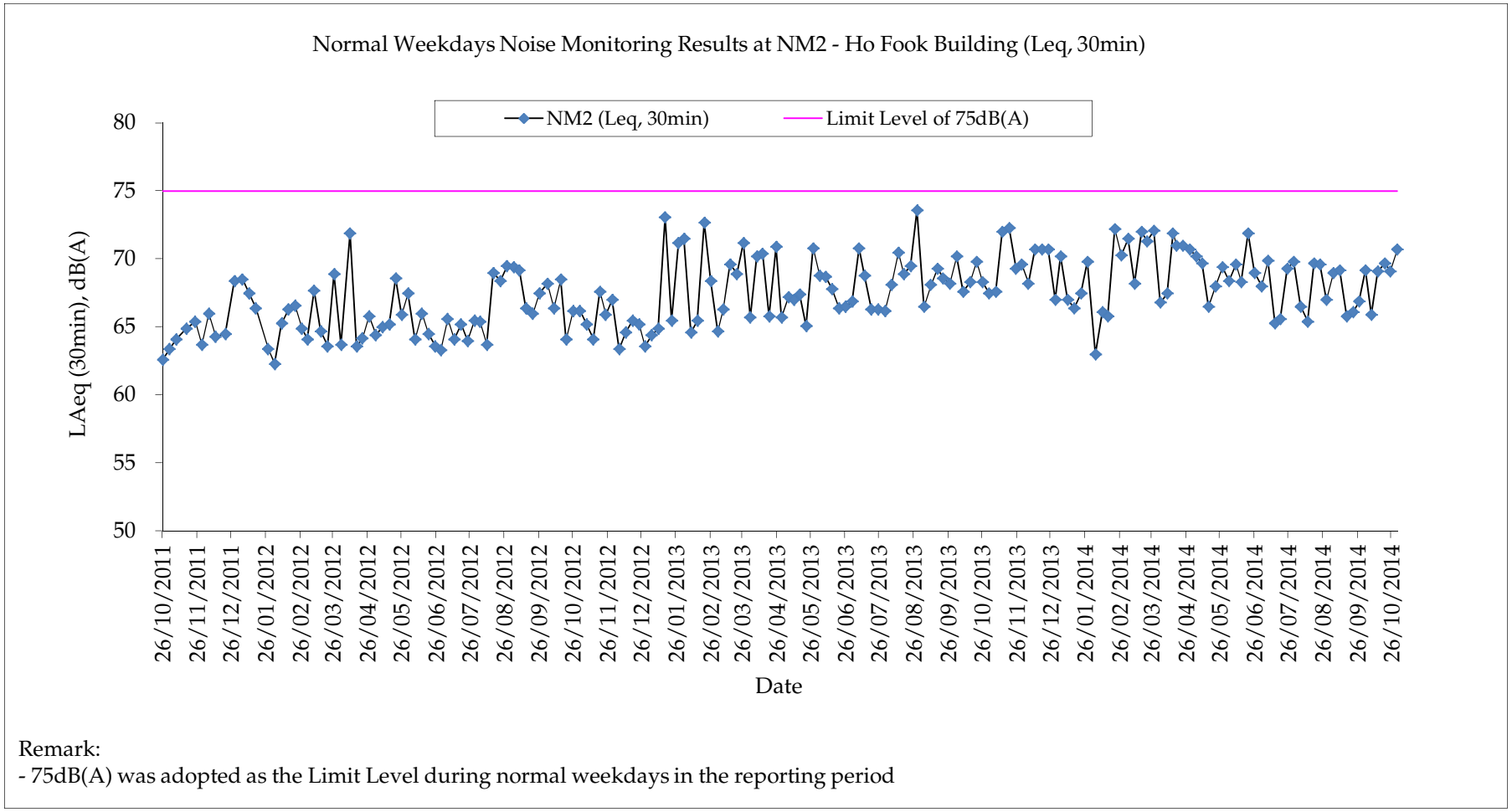
Station	Date	Noise Levels, dB(A) 30 mins			Limit Level, dB(A) 30 mins
		Leq	L10	L90	Leq
NM6 Chancery Mansion	13-Jul-13	69.6	70.8	67.9	75
NM6 Chancery Mansion	19-Jul-13	69.1	70.3	67.8	75
NM6 Chancery Mansion	25-Jul-13	69.1	70.8	68.1	75
NM6 Chancery Mansion	31-Jul-13	68.0	69.5	65.3	75
NM6 Chancery Mansion	06-Aug-13	67.3	68.5	66.2	75
NM6 Chancery Mansion	12-Aug-13	67.7	69.8	64.6	75
NM6 Chancery Mansion	17-Aug-13	68.4	69.7	65.9	75
NM6 Chancery Mansion	23-Aug-13	67.9	69.5	66.0	75
NM6 Chancery Mansion	29-Aug-13	68.6	69.7	67.6	75
NM6 Chancery Mansion	04-Sep-13	67.9	69.4	65.5	75
NM6 Chancery Mansion	10-Sep-13	70.7	71.4	69.2	75
NM6 Chancery Mansion	16-Sep-13	68.7	70.1	67.8	75
NM6 Chancery Mansion	21-Sep-13	69.0	70.2	67.9	75
NM6 Chancery Mansion	27-Sep-13	69.2	70.4	67.5	75
NM6 Chancery Mansion	03-Oct-13	67.7	69.2	63.9	75
NM6 Chancery Mansion	09-Oct-13	69.7	72.7	66.1	75
NM6 Chancery Mansion	15-Oct-13	67.3	68.8	64.8	75
NM6 Chancery Mansion	21-Oct-13	68.3	69.6	67.0	75
NM6 Chancery Mansion	26-Oct-13	67.5	68.9	64.4	75
NM6 Chancery Mansion	01-Nov-13	67.0	68.5	64.2	75
NM6 Chancery Mansion	07-Nov-13	73.4	75.2	70.4	75
NM6 Chancery Mansion	13-Nov-13	65.3	66.8	63.4	75
NM6 Chancery Mansion	19-Nov-13	67.1	68.6	65.0	75
NM6 Chancery Mansion	25-Nov-13	67.3	69.3	64.5	75
NM6 Chancery Mansion	30-Nov-13	67.0	69.1	64.9	75
NM6 Chancery Mansion	06-Dec-13	67.2	68.6	63.2	75
NM6 Chancery Mansion	12-Dec-13	68.1	69.8	65.6	75
NM6 Chancery Mansion	18-Dec-13	68.2	69.8	65.3	75
NM6 Chancery Mansion	24-Dec-13	67.8	69.3	63.9	75
NM6 Chancery Mansion	30-Dec-13	69.5	72.3	65.9	75
NM6 Chancery Mansion	04-Jan-14	68.7	70.0	65.5	75
NM6 Chancery Mansion	10-Jan-14	65.4	67.0	62.9	75
NM6 Chancery Mansion	16-Jan-14	65.7	67.8	62.8	75
NM6 Chancery Mansion	22-Jan-14	66.4	68.1	63.8	75
NM6 Chancery Mansion	28-Jan-14	67.2	68.7	64.9	75
NM6 Chancery Mansion	04-Feb-14	63.8	65.5	60.6	75
NM6 Chancery Mansion	10-Feb-14	66.4	68.1	64.2	75
NM6 Chancery Mansion	15-Feb-14	66.3	68.0	63.7	75
NM6 Chancery Mansion	21-Feb-14	73.3	76.5	69.3	75
NM6 Chancery Mansion	27-Feb-14	69.4	70.8	66.2	75
NM6 Chancery Mansion	05-Mar-14	68.8	71.3	65.6	75
NM6 Chancery Mansion	11-Mar-14	73.4	75.6	69.4	75
NM6 Chancery Mansion	17-Mar-14	67.0	68.8	63.2	75
NM6 Chancery Mansion	22-Mar-14	66.7	68.5	63.2	75
NM6 Chancery Mansion	28-Mar-14	69.2	71.1	65.9	75
NM6 Chancery Mansion	03-Apr-14	68.1	69.6	65.7	75
NM6 Chancery Mansion	09-Apr-14	68.6	69.7	66.4	75
NM6 Chancery Mansion	14-Apr-14	68.5	70.0	65.1	75
NM6 Chancery Mansion	17-Apr-14	67.4	69.0	64.7	75
NM6 Chancery Mansion	23-Apr-14	67.7	69.2	64.7	75
NM6 Chancery Mansion	29-Apr-14	67.2	68.9	64.7	75
NM6 Chancery Mansion	05-May-14	68.3	69.7	66.2	75

Annex G - Cumulative Noise Monitoring Results

Station	Date	Noise Levels, dB(A) 30 mins			Limit Level, dB(A) 30 mins
		Leq	L10	L90	Leq
NM6 Chancery Mansion	10-May-14	66.0	67.4	63.8	75
NM6 Chancery Mansion	16-May-14	67.1	68.6	64.3	75
NM6 Chancery Mansion	22-May-14	66.5	67.9	65.0	75
NM6 Chancery Mansion	28-May-14	67.7	69.0	65.6	75
NM6 Chancery Mansion	03-Jun-14	66.7	68.2	64.3	75
NM6 Chancery Mansion	09-Jun-14	66.8	67.7	65.7	75
NM6 Chancery Mansion	14-Jun-14	66.6	68.2	64.2	75
NM6 Chancery Mansion	20-Jun-14	67.1	68.6	65.3	75
NM6 Chancery Mansion	26-Jun-14	68.2	69.5	66.8	75
NM6 Chancery Mansion	02-Jul-14	67.8	69.9	65.3	75
NM6 Chancery Mansion	08-Jul-14	69.1	70.6	67.0	75
NM6 Chancery Mansion	14-Jul-14	70.1	71.5	68.1	75
NM6 Chancery Mansion	19-Jul-14	69.9	71.5	67.1	75
NM6 Chancery Mansion	25-Jul-14	69.5	71.2	67.5	75
NM6 Chancery Mansion	31-Jul-14	69.8	71.5	66.7	75
NM6 Chancery Mansion	06-Aug-14	69.1	70.3	67.8	75
NM6 Chancery Mansion	12-Aug-14	67.3	68.5	65.8	75
NM6 Chancery Mansion	18-Aug-14	66.6	68.0	64.9	75
NM6 Chancery Mansion	23-Aug-14	66.5	67.7	64.5	75
NM6 Chancery Mansion	29-Aug-14	66.6	68.1	65.1	75
NM6 Chancery Mansion	04-Sep-14	70.4	71.5	66.2	75
NM6 Chancery Mansion	10-Sep-14	69.0	70.6	66.2	75
NM6 Chancery Mansion	16-Sep-14	66.3	68.0	64.2	75
NM6 Chancery Mansion	22-Sep-14	67.0	68.4	63.3	75
NM6 Chancery Mansion	27-Sep-14	66.6	68.2	63.0	75
NM6 Chancery Mansion	03-Oct-14	67.8	69.6	65.2	75
NM6 Chancery Mansion	08-Oct-14	65.5	67.0	63.4	75
NM6 Chancery Mansion	14-Oct-14	74.7	**77.4**	68.1	75
NM6 Chancery Mansion	20-Oct-14	67.8	69.3	65.0	75
NM6 Chancery Mansion	25-Oct-14	67.6	68.9	65.6	75
NM6 Chancery Mansion	31-Oct-14	66.7	68.3	65.2	75



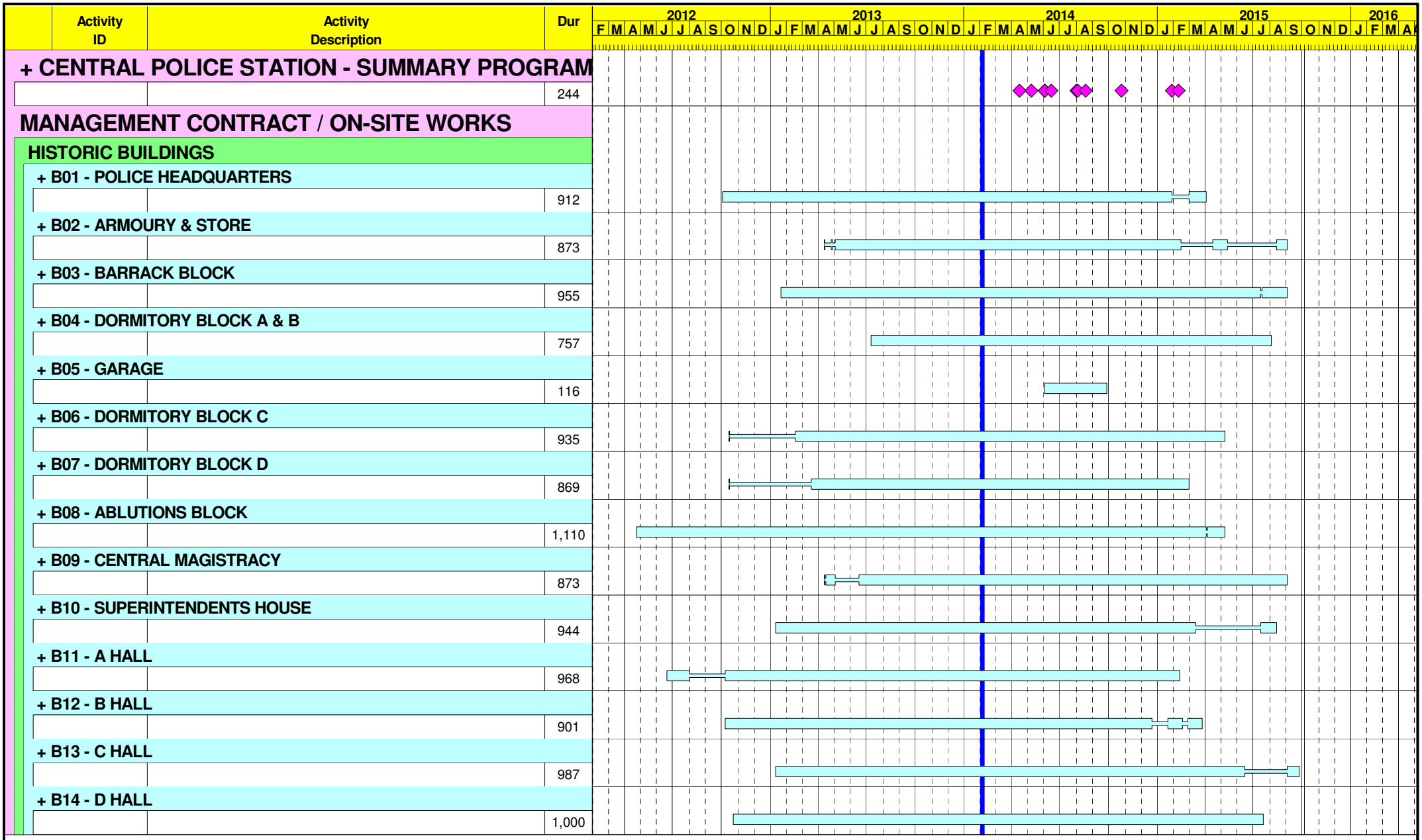
Remark:
- 75dB(A) was adopted as the Limit Level during normal weekdays in the reporting period



Remark:
- 75dB(A) was adopted as the Limit Level during normal weekdays in the reporting period

Annex H

Construction Programme of the Project



Start Date	07JUL10
Finish Date	05OCT15
Data Date	06FEB14
Run Date	07JUL14 15:24

?Primavera Systems, Inc.

Early Bar
Progress Bar

T78A

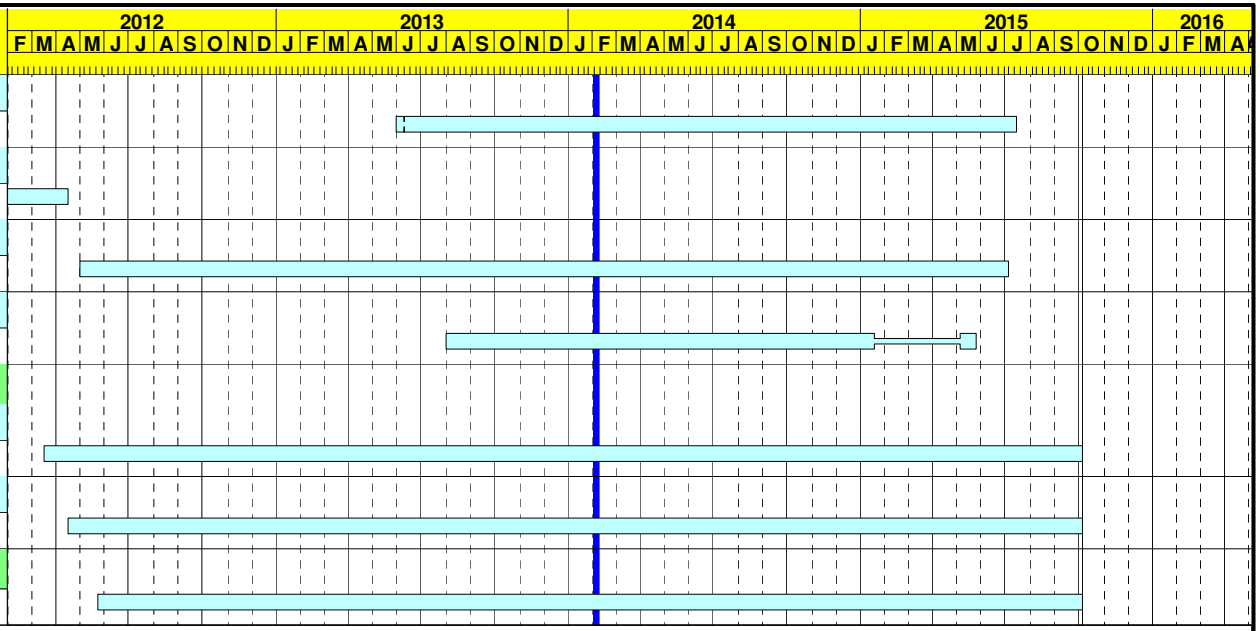
Sheet 1 of 2

CENTRAL POLICE STATION
CONSERVATION AND REVITALIZATION
CONSTRUCTION PROGRAMME
SUMMARY PROGRAMME
(AS OF 06 Feb 2014)

GCL/P/J3416 /CP05A-1

Date	Revision	Checked	Approved
22APR14	1st Issued		

Activity ID	Activity Description	Dur
+ B15 - E HALL		
		777
+ B16 - WORKSHOP & LAUNDRY		
		192*
+ B17 - F HALL		
		1,158
+ B19 - BAUHINIA HOUSE		
		664
NEW BUILDINGS		
+ OBW - OLD BAILEY WING		
		1,299
+ AW - ARBUTHNOT WING		
		1,267
+ SITE WORKS		
		1,230



Start Date	07JUL10
Finish Date	05OCT15
Data Date	06FEB14
Run Date	07JUL14 15:24

?Primavera Systems, Inc.

Early Bar
Progress Bar

T78A

CENTRAL POLICE STATION CONSERVATION AND REVITALIZATION CONSTRUCTION PROGRAMME SUMMARY PROGRAMME (AS OF 06 Feb 2014)

GCL/P/J3416 /CP05A-1

Date	Revision	Checked	Approved
22APR14	1st Issued		

Annex I

Waste Flow Table

Annex I – Waste Flow Table

Month / Year	Quantity										
	C&D Materials (inert) (tonnes) [a]	Number of Trucks for C&D Materials Disposal (inert)	Volume of C&D Materials (inert) (m^3) [c]	C&D Materials (non-inert) (tonnes) [b]	Number of Trucks for C&D Materials Disposal (non-inert)	Volume of C&D Materials (non-inert) (m^3) [c]	Chemical Waste (Solid /kg)	Chemical Waste (Liquid/L)	Recycled materials		
									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
August-13	2831.78	353	1720.88	89.23	25	121.88	0	0	0	0	7190
September-13	979.49	141	687.38	103.73	29	141.38	40	0	0	0	4030
October-13	2170.54	270	1316.25	157.48	41	199.88	135	0	0	0	3120
November-13	836.74	109	531.38	191.58	44	214.50	0	0	202	0	18486
December-13	2606.76	296	1443.00	192.54	49	238.88	0	0	0	0	10041
January-14	3813.53	400	1950.00	97.87	36	175.50	0	0	0	0	14110
February-14	3378.16	316	1540.50	37.84	14	68.25	0	0	0	0	9800
March-14	5256.15	516	2515.50	89.39	31	151.13	0	0	6000	0	19030
April-14	3006	299	1457.63	114.31	33	160.88	45	0	0	0	6950
May-14	3195.53	310	1511.25	119.54	37	180.38	0	0	0	0	7000
June-14	2176.81	205	999.38	148.8	45	219.38	0	0	242	0	8830
July-14	1009.96	111	541.13	147.36	49	238.88	0	0	0	0	6680
August-14	379.23	53	258.38	211.86	47	229.13	0	0	0	0	13690
September-14	1216.97	123	599.63	264.83	56	273.00	0	0	0	0	9720
October-14	1162.34	124	604.50	294.33	65	316.88	0	0	0	0	57080
Total	52407.03	5829	28416.375	4153.01	1137	5542.88	7395	57	8645	6	565029

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 m^3 by volume.

Annex J

Environmental Complaint, Enquiry, Environmental Summons and Prosecution Log

COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

Log Number:	**2014/01/001**
Date of Complaint Received	14 January 2014
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Hong Kong Jockey Club
Complainant	Ms. Annie Cheung

Details of Complaint

An email complaint on noise nuisance was transferred to HKJC by Home Affairs Department. GCL subsequently received the complaint from HKJC on 14 January 2014. The complainant, a neighbourhood resident, mentioned that noise generated from daily construction activities was disturbing. Additionally, she complained about noise nuisance from piling works on Saturday afternoons, loud conversations from construction workers and occasional night works.

Investigation Report

1. All daytime construction activities are being carried out between 0700 to 1900 hours on normal weekdays (ie, Monday to Saturday).

2. According to the Contractor, all piling works were completed on 4 October 2013 and no piling works were conducted. Piling rigs have been demobilized at night-time on 9-11 December 2013 and 7 January 2014. Construction noise permits (CNPs) (GW-RS1110-13 and GW-RS1205-13) were obtained from the EPD for the demobilization of piling rigs.

3. It is understood that piling works is being conducted at a nearby construction site at 18 Staunton Street which may be the piling work noise perceived by the complainant.

4. According to the requirement of the Environmental Permit (EP) of the Project, regular daytime noise monitoring at designated noise monitoring stations should be conducted and the monitoring results showed compliance with the construction noise standard for the last four months.

Mitigation Measures and Follow-up Actions Recommended to Contractor

Further to the findings of investigation, the noise generated from the construction activities complies with the noise criteria and the works are carried out strictly following the necessary requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The Contractor will continue to follow these requirements. On 15 January 2014, the Contractor has notified all workers and operation supervisor of the complaint and reminded them to minimise the potential noise generated as much as possible during any work activities and to keep the conversation noise level down at all times. Notices were also put on site entrances and workers rest areas on 15 January 2014 as a reminder to workers to avoid engaging in loud conversations.

Date of File Closed : 21 January 2014

Approved by:

ET Leader	IEC	JCCPS's Representative	Rocco Design Architect's Representative
(Name: Winnie Ko)	(Name: Sharifah Or)	(Name: C. W. Shaw)	(Name: Charles King)
Date: 21 January 2014	Date:22 January 2014	Date: 22 Jan 2014	Date: 22 Jan 2014

Gammon's Representative

(Name: CLIFF LEUNG)
Date: 2014. 01. 22

COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

Log Number:	**2014/01/002**
Date of Complaint Received	17 January 2014
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Hong Kong Jockey Club
Complainant	Mr. Michael Chugani

Details of Complaint

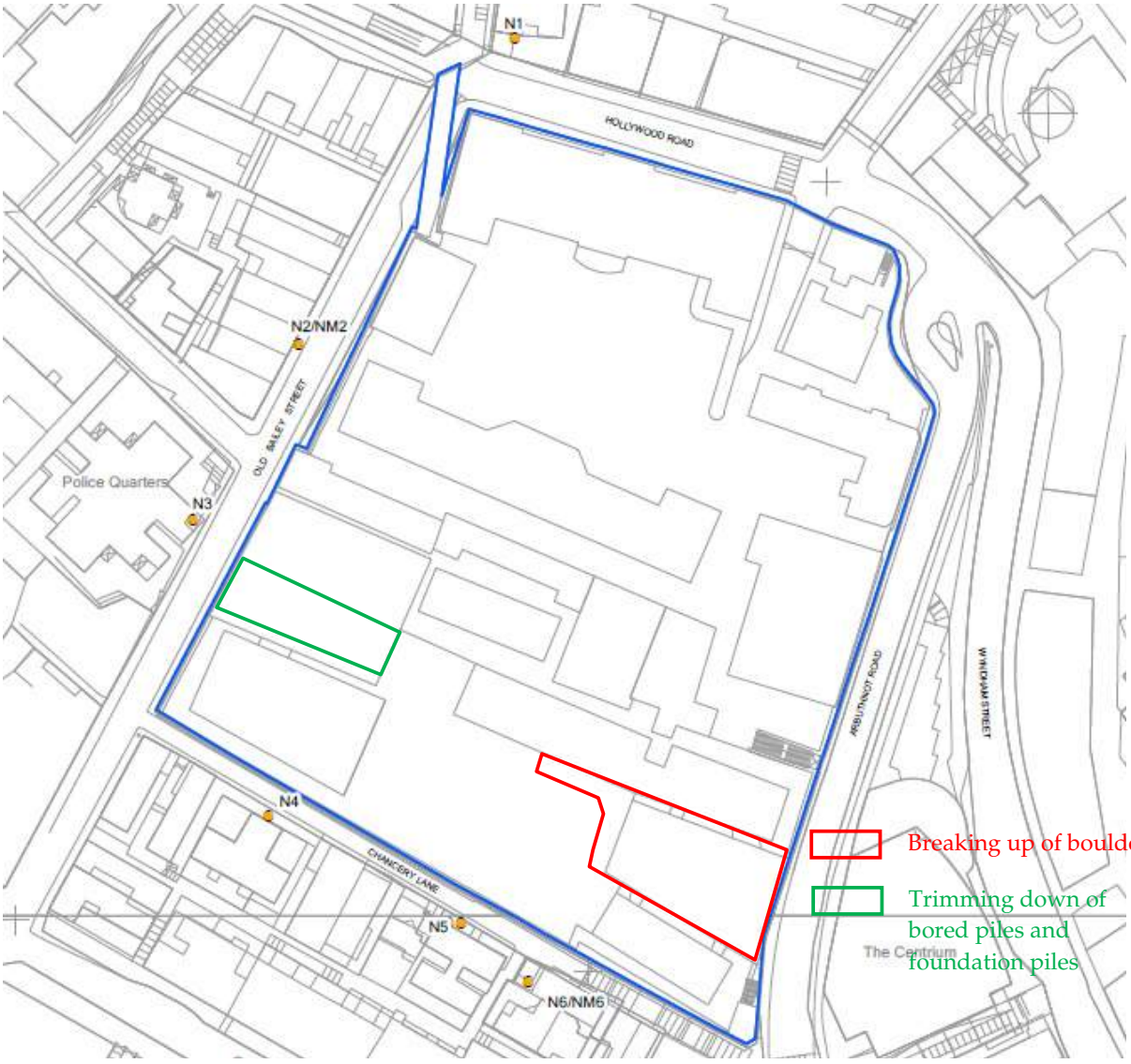
An email complaint on noise nuisance was received by HKJC and transferred to GCL on 17 January 2014. The complainant mentioned the digging up works at Victoria Prison has been causing deafening noise for weeks. He also complained the lengthy construction period of the site.

1. All construction activities are being carried out between 0700 to 1900 hours on normal weekdays (ie, Monday to Saturday).

2. According to the Contractor, the loud noise mentioned by the complainant may be related to the trimming down of the bored piles and foundation piles for the construction of the capping beam at Old Bailey Wing, and the breaking up of the boulders during excavation at and near Arbuthnot Wing. These work activities commenced in December 2013 and are expected to be completed in February 2014. The mentioned work activities are shown in the figure below.

3. According to the requirement of the Environmental Permit (EP) of the Project, regular daytime noise monitoring at designated noise monitoring stations (NM2 and NM6) should be conducted and the monitoring results showed compliance with the construction noise standard. The designated noise monitoring stations are shown in the figure below.

4. HKJC replied to the complainant by email on 17 January 2014 to explain the construction status of the Project.



Mitigation Measures and Follow-up Actions Recommended to Contractor

Further to the findings of investigation, the noise generated from the construction activities complies with the noise criteria and the works are carried out strictly following the necessary requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The Contractor will continue to follow these requirements. On 17 January 2014, the Contractor has notified all workers and operation supervisor of the complaint and reminded them to minimise the potential noise generated as much as possible during any work activities. In particular, the Contractor has been reminded to provide acoustic curtain, where applicable, to the handheld mechanical equipment and properly install noise barriers during major construction activities in the future.

Date of File Closed : 30 January 2014

Approved by:

ET Leader	IEC	JCCPS's Representative	Rocco Design Architect's Representative
(Name: Winnie Ko)	(Name: Sharifah Or)	(Name: C.W. Shaw)	(Name: CHARLES KUNG)
Date: 30 January 2014	Date: 10 February 2014	Date: 10 Feb 2014	Date: 12 Feb 14

Gammon's Representative

(Name: CLIFF LEUNG)
Date: 2014. 02. 06

COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

Log Number:	**2014/02/001**
Date of Complaint Received	14 February 2014
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Environmental Protection Department (EPD)
Complainant	Nearby resident

Details of Complaint

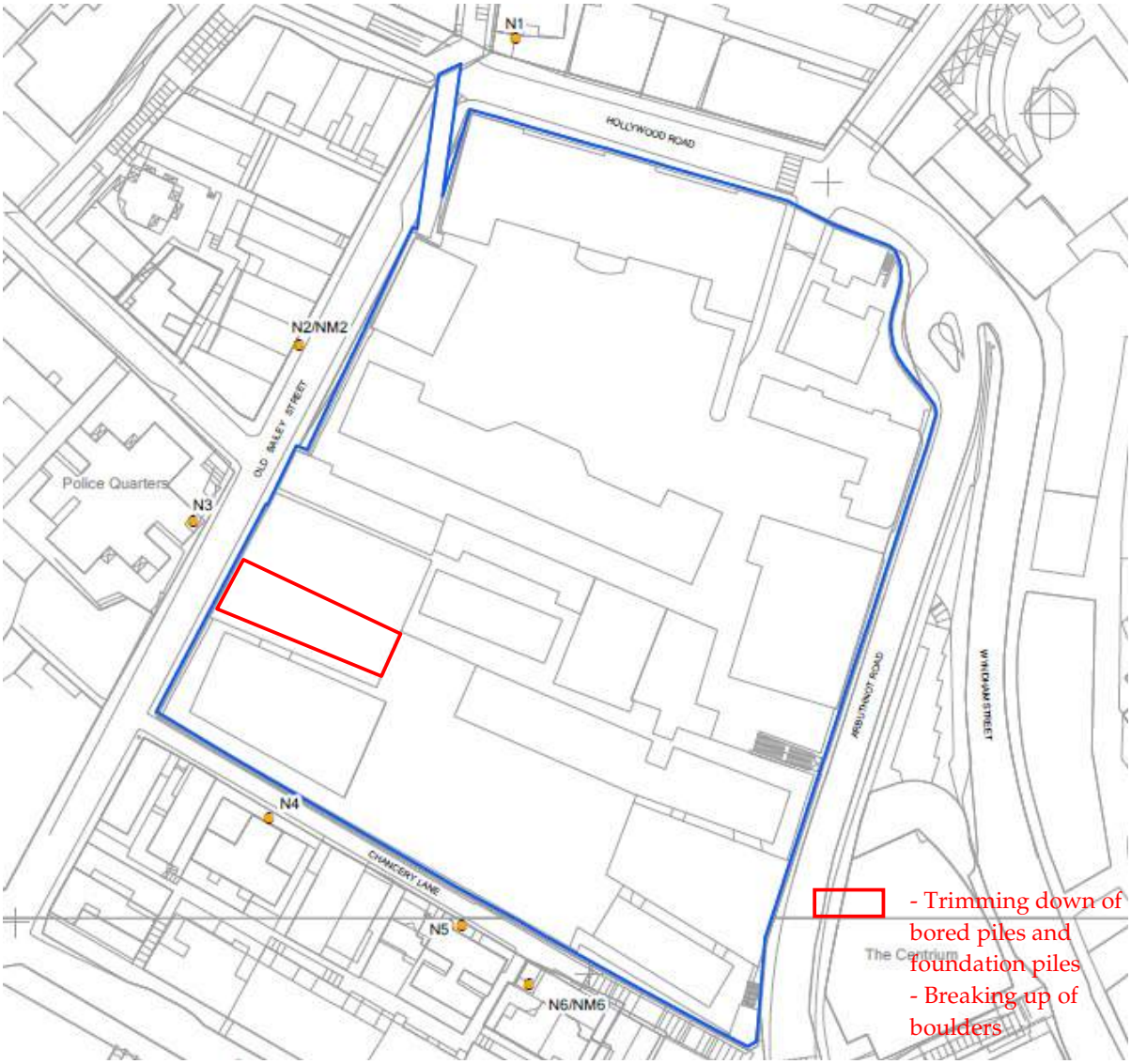
EPD received a complaint on noise nuisance from a resident living near the junction of Staunton Street and Old Bailey Street early February 2014. The complaint was transferred to the Environmental Team and Gammon Construction Limited (GCL) on 14 February 2014. The complainant mentioned that she has a direct view of the CPS construction site from her apartment and that the daytime construction noise affects her living even the apartment windows are double-glazed.

1. All construction activities are being carried out between 0700 to 1900 hours on normal weekdays (ie, Monday to Saturday).

2. According to the Contractor, the loud noise mentioned by the complainant may be related to the trimming down of the bored piles and foundation piles for the construction of the capping beam, as well as the breaking up of boulders during excavation at Old Bailey Wing. These work activities commenced in December 2013 and are expected to be completed in February 2014. The mentioned work activities are shown in the figure below.

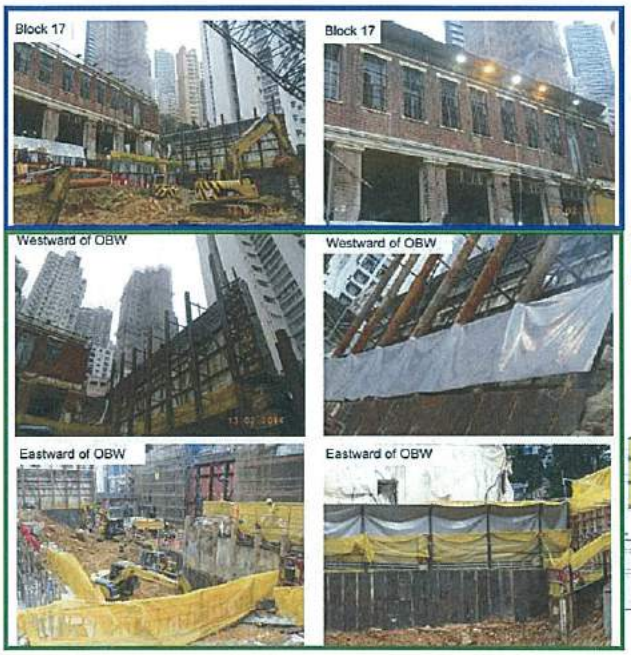
3. According to the requirement of the Environmental Permit (EP) of the Project, weekly daytime noise monitoring at designated noise monitoring stations (NM2 and NM6) should be conducted and the monitoring results showed compliance with the construction noise standard. The designated noise monitoring stations are shown in the figure below.

4. Noise monitoring results for the most recent three months (up until 15 Feb 2014) and the upcoming monitoring schedule in March 2014 are attached.

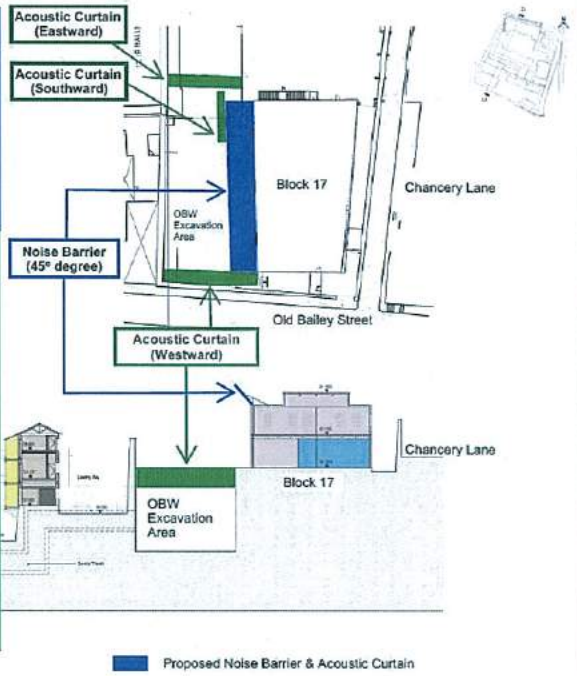


Mitigation Measures and Follow-up Actions Recommended to Contractor

Further to the findings of investigation, the noise generated from the construction activities complies with the noise criteria and the works are carried out strictly following the necessary requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The Contractor will continue to follow these requirements. On 14 February 2014, the Contractor has notified all workers and operation supervisor of the complaint and reminded them to minimise the potential noise generated as much as possible during any work activities. Acoustic curtains are currently erected as shown in the figure below as noise mitigation measures to residents living close to Old Bailey Street and Staunton Street. Furthermore, the Contractor has been reminded to provide portable noise barriers, where applicable, to noisy operating power mechanical equipment in order to effectively reduce noise at source.



Before Mitigation Measures



After Mitigation Measures

Date of File Closed : 21 February 2014

Approved by:

ET Leader	IEC	JCCPS's Representative	Rocco Design Architect's Representative
(Name: Winnie Ko)	(Name: Sharifah Or)	(Name: C.W. Sham)	(Name: CHARLES KUNG)
Date: 21 February 2014	Date: 7 March 2014	Date: 7 March 14	Date: 7 March 14

Gammon's
Representative

(Name: CLIFF LEUNG)
Date:

ROCCO 许李严

Gammon

賽馬會文物保育有限公司
The Jockey Club CPS Limited

ATKINS

ERM

Central Police Station
Conservation and Revitalisation Project

COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

Log Number:	**2014/03/001**
Date of Complaint Received	3 March 2014
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Environmental Protection Department (EPD)
Complainant	Nearby resident

Details of Complaint

EPD received a complaint on noise nuisance from a resident living near the CPS Project Site on 3 March 2014. The complaint was transferred to the Project's Environmental Team and Gammon Construction Limited (GCL) on the same day. The complainant mentioned that construction noise was emanated from the CPS Project Site between 0600 and 0630 many times recently.

Investigation Report

1. According to the Contractor's works summary, no major construction works were carried out from 0600 to 0630 hours any day in February 2014. All construction activities are carried out during normal working hours between 0700 and 1900 hours on Monday to Saturday.

2. Only the underground water pumps were operating within the project site 24 hours and a Construction Noise Permit (GW-RS1461-13) is valid for the pumps operation outside the normal working hours. Since the water pumps are installed underground and it is not anticipated that the operating water pumps would generate considerable noise that may affect nearby residents.

3. According to the site access record from the Contractor, two workers were recorded to have entered the Project Site before 0630 hour for 3 times in February 2014. These two workers were responsible for filling diesel to construction plant before other workers on duty. The filling of diesel into construction plant is not expected to cause considerable noise.

Mitigation Measures and Follow-up Actions Recommended to Contractor

All construction works are carried out strictly following the necessary requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. In addition, construction noise permit (CNP) is also valid for those necessary works conducted outside the normal working hours. According to findings of investigation, no major construction works were carried out during 0600 – 0630 but operating underground water pumps and filling diesel for the equipment several times were carried out. These minor works are not anticipated to generate considerable noise to affect the nearby residents.

To maintain a good relationship with the nearby residents and further minimizing noise nuisance, the Contractor has immediately notified all workers and operation supervisors of the complaint on 4 March 2014 and reminded them to ensure that all power mechanical equipment must be turned off when they are not in use.

Date of File Closed : 10 March 2014

Approved by:

ET Leader	IEC	JCCPS's Representative	Rocco Design Architect's Representative
(Name: Winnie Ko)	(Name: Sharifah Or)	(Name: C W Sham)	(Name: CHARLES KUNG)
Date: 10 March 2014	Date: 24 March 2014	Date:	Date: 1 APRIL 2014

Gammon's Representative

(Name: CLIFF LEUNG)
Date:

ROCCO 许李严

賽馬會文物保育有限公司
The Jockey Club CPS Limited

ATKINS

Gammon

Central Police Station
Conservation and Revitalisation Project

ERM

COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

Log Number:	**2014/04/001**
Date of Complaint Received	14 April 2014
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Environmental Protection Department (EPD)
Complainant	Nearby resident

Details of Complaint

EPD received a complaint on noise nuisance from a resident living near the CPS Project Site on 14 April 2014. The complaint was transferred to the Project's Environmental Team and Gammon Construction Limited (GCL) on 15 April 2014. The complainant mentioned that construction noise was emanated from construction works conducted near the junction of Arbuthnot Road and Hollywood Road between 0200 to 0400 hours in recent mornings.

Investigation Report

1. Demobilisation of the 100-tonne mobile crane from Arbuthnot Wing of the CPS Project Site was being conducted between 0100 and 0330 hours on 14 April 2014.

2. A Construction Noise Permit (GW-RS0271-14) for the demobilisation of the mobile crane was issued by the EPD on 25 March 2014. The CNP is valid between 0100 and 0600 hours on Mondays to Fridays not being a general holiday from 1 April 2014 to 30 June 2014.

3. A 350-tonne mobile crane arrived at Arbuthnot Road at 0100 hour and outriggers were being extended for the preparation of the lifting process of the 100-tonne mobile crane. The lifting of the 100-tonne mobile crane from Arbuthnot Wing to Arbuthnot Road was completed at around 0200 hours. The 100-tonne mobile crane left Arbuthnot Road via Wyndham Street. The 350-tonne mobile crane retracted its outriggers and was required to back along Arbuthnot Road to depart via Upper Albert Road. The entire demobilisation process was completed at 0330 hours.

4. It is suspected that the noise source was originated from the retracting of the 350-tonne mobile crane outriggers or the back alert during the backing of the 350-tonne mobile crane along Arbuthnot Road.

Mitigation Measures and Follow-up Actions Recommended to Contractor

All construction works are carried out strictly following the necessary requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The construction noise permit (CNP) is also valid for the demobilisation of the mobile crane carried out during the mentioned restricted hours. According to findings of investigation, the potential noise source may have been originated from the 350-tonne mobile crane during the retracting of its outriggers and its backing along Arbuthnot Road when the back alert was on. It should be noted that for safety reason, it is necessary to operate the back alert when the mobile crane is backing along the Arbuthnot Road. However, the Contractor was reminded to minimise potential noise sources by reducing work duration, as far as practicable, during restricted hours in order to minimise the likelihood of causing noise nuisance to nearby residents in the future. In addition, the Contractor has notified workers and operation supervisors of the complaint on 15 April 2014.

Date of File Closed : 22 April 2014

Approved by:

ET Leader	IEC	JCCPS's Representative	Rocco Design Architect's Representative
(Name: Winnie Ko)	(Name: Sharifah Or)	(Name: C W Shaw)	(Name: CHARLES KUNG)
Date: 22 April 2014	Date: 24 April 2014	Date: 14-05-2014	Date: 14-05-2014

Gammon's Representative

(Name: CLIFF LEUNG)
Date: 2014.04.23

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COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

Log Number:	**2014/07/001**
Date of Complaint Received	21 July 2014
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Hong Kong Jocky Club (HKJC)
Complainant	Marcus Shenn, nearby resident

Details of Complaint

The Hong Kong Jockey Club received a complaint on noise nuisance from a resident living on Chancery Lane on 21 July 2014. The complaint was transferred to the Project's Environmental Team on 22 July 2014. The complainant mentioned that construction noise was emanated from the operation of multiple jack hammers at the CPS Site in the week of 14 July 2014. The complainant requested a phone call reply regarding the complaint.

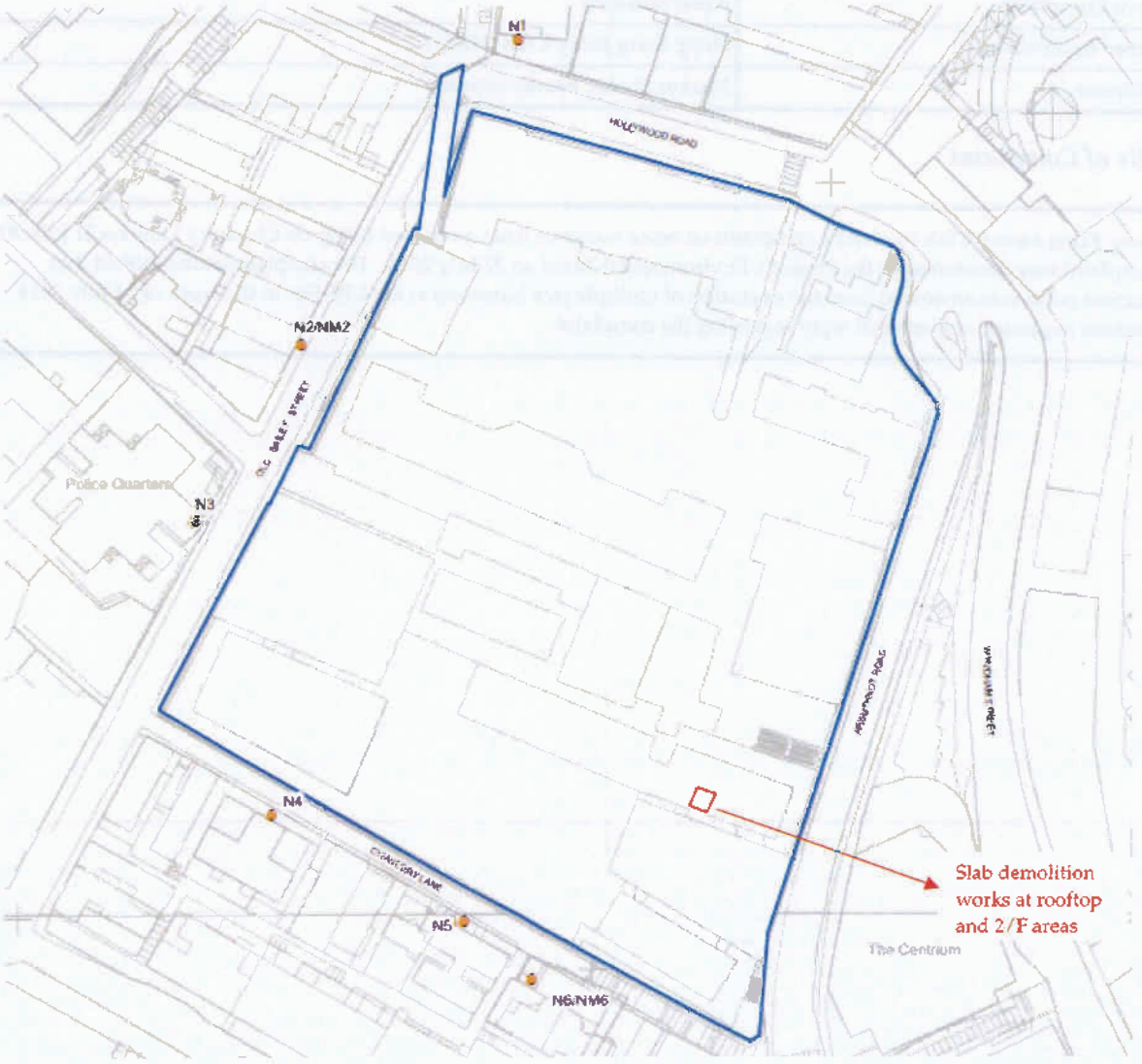
Investigation Report

1. According to the Contractor's works summary, demolition of slab for lift shaft construction using hand-held breakers (>10kg) at Block 14 were being carried out in the week of 14 July 2014 during normal working hours. The location of the mentioned demolition works is shown in the figure below.

2. A number of hand-held breakers (>10kg) were being operated for slab demolition on the rooftop and 2/F of Block 14. The slab demolition works have been completed.

3. The noise nuisance mentioned by the complainant is likely to be related to the demolition works that were carried out on the rooftop of Block 14.

4. Weekly daytime noise monitoring at designated noise monitoring stations (NM2 and NM6) are conducted according to EM&A requirement. Noise monitoring results in the past 4 weeks showed compliance with the construction noise standard.



Mitigation Measures and Follow-up Actions Recommended to Contractor

All construction works are carried out strictly following the necessary requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The Contractor was recommended to install acoustic silencers to the hand-held breakers during breaking and demolition works to reduce noise generated at source. According to findings of investigation, the potential noise nuisance is suspected to be related to the demolition works on rooftop areas on which nearby noise sensitive receivers have direct line of sight. The Contractor was reminded to erect portable noise barriers or acoustic curtains, as far as practicable, when engaging in breaking works or other noisy works in open areas to minimise potential noise nuisance to nearby residents. Furthermore, the Contractor has returned call to complainant to explain the situation and the possible noise mitigation measures to be employed in the future.

Date of File Closed : 25 July 2014

Approved by:

ET Leader	IEC	JCCPS's Representative	Rocco Design Architect's Representative
(Name: Winnie Ko)	(Name: Sharifah Or)	(Name: C W Sham)	(Name: CHARLES KUNG)
Date: 25 July 2014	Date: 25 July 2014	Date: 28 July 2014	Date: 28 July 2014

Gammon's Representative

(Name: CUFF LEUNG)
Date: 2014.07.25

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Central Police Station
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COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

Log Number:	**2014/07/002**
Date of Complaint Received	25 July 2014
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Hong Kong Jocky Club (HKJC)
Complainant	Marcus Shenn, nearby resident

Details of Complaint

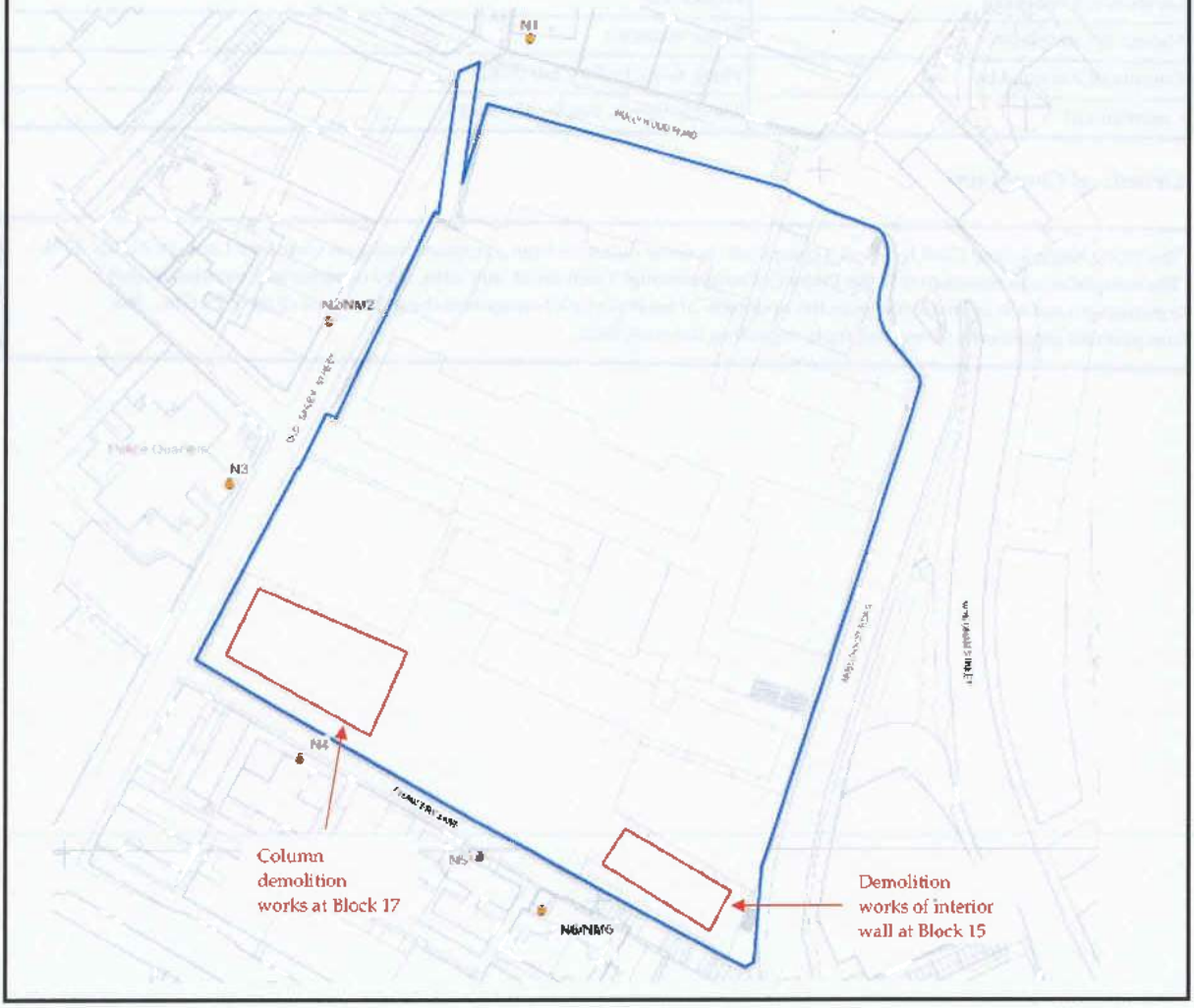
The Hong Kong Jockey Club received a complaint on noise nuisance from a resident living on Chancery Lane on 25 July 2014. The complaint was transferred to the Project's Environmental Team on 28 July 2014. The complainant mentioned that construction noise was emanated from the operation of multiple jack hammers at the prison area of the CPS Site. The complainant requested a phone call reply regarding the complaint.

Investigation Report

1. According to the Contractor's works summary, interior wall demolition at Block 15 and column demolition at Block 17 were being carried out in the week of 21 July 2014 during normal working hours. The noise nuisance mentioned by the complainant is likely to be related to the demolition works at Block 15 and Block 17. The location of the mentioned demolition works is shown in the figure below.

2. A number of hand-held breakers (>10kg) were being operated for the above-mentioned demolition works at Block 15 and Block 17. All demolition works were being conducted inside the buildings. According to the Contractor, the demolition works at Block 15 and Block 17 will be completed within the next 1 to 2 months.

3. Weekly daytime noise monitoring at designated noise monitoring stations (NM2 and NM6) are conducted according to EM&A requirement. Noise monitoring results in the past 4 weeks showed compliance with the construction noise standard.



Mitigation Measures and Follow-up Actions Recommended to Contractor

All construction works are carried out strictly following the necessary requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The Contractor has implemented noise mitigation measures in response to the complaint. Acoustic curtains has been erected at the south and west elevations of Block 15, and at the entrance opening and windows areas of Block 17 to shield the direct line of sight and reduce the noise nuisance to nearby noise sensitive receivers along the Chancery Lane. Locations of the erected acoustic curtains are shown in the figure below. The Contractor was also recommended to install acoustic silencers to the hand-held breakers during breaking and demolition works to reduce noise generated at source. On 26 July 2014, the Contractor has returned call to complainant to explain the situation and the noise mitigation measures that are currently in place.

Date of File Closed : 30 July 2014

Approved by:

ET Leader	IEC	JCCPS's Representative	Rocco Design Architect's Representative
(Name: Winnie Ko)	(Name: Sharifah Or)	(Name: C W Sham)	(Name: CHARLES KUNG)
Date: 30 July 2014	Date: 31 July 2014	Date: 31 July 2014	Date: 31 July 2014

Gammon's
Representative

(Name: CLIFF LEUNG)
Date: 2014. 07. 30

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COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

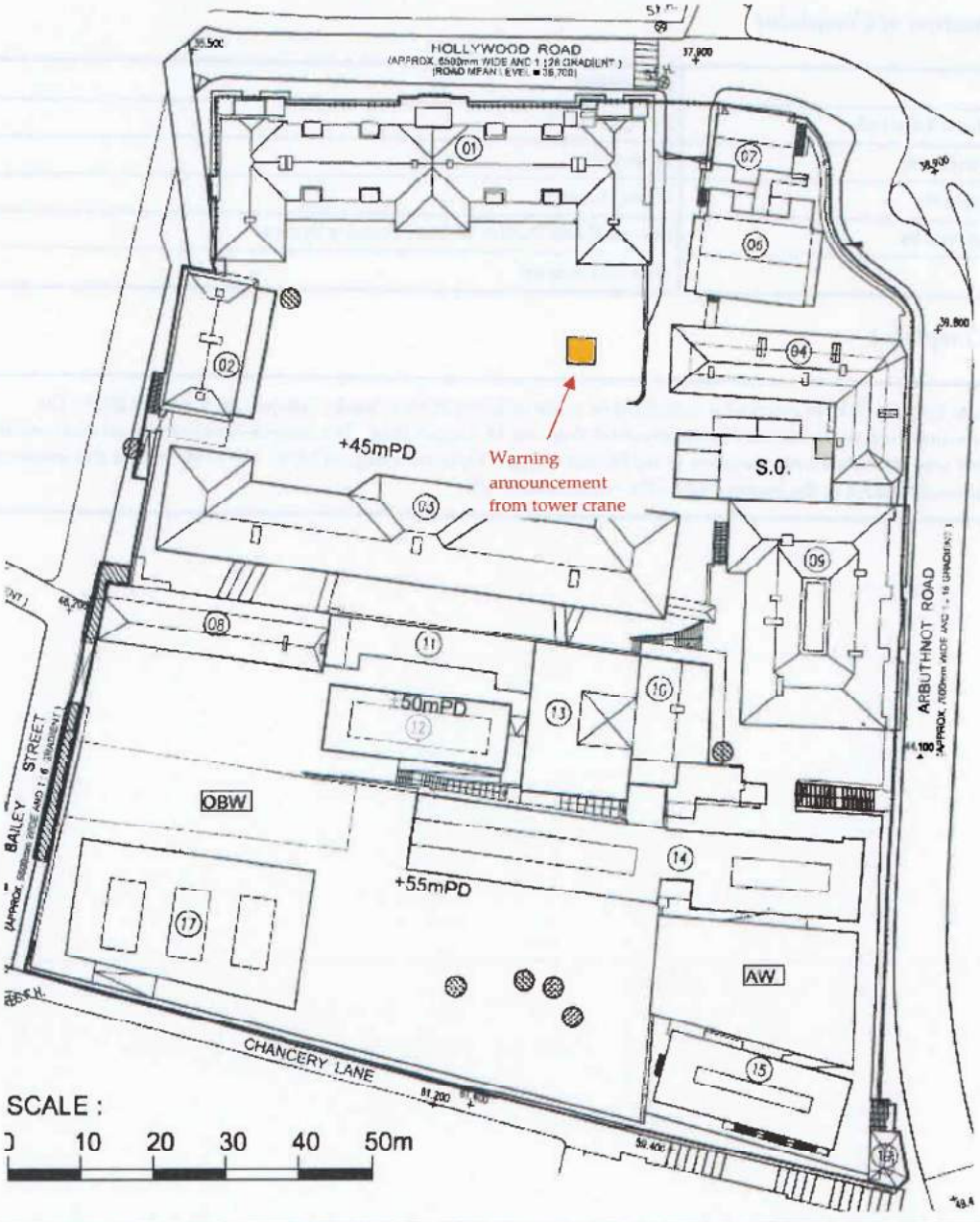
Log Number:	**2014/08/001**
Date of Complaint Received	5 August 2014
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Central Police Station Website Enquiry System
Complainant	Michael Chugani

Details of Complaint

The CPS Website Enquiry System received a complaint on noise nuisance from a nearby resident on 5 August 2014. The complaint was transferred to the Project's Environmental Team on 11 August 2014. The complainant mentioned that a weird, repetitive sound was emanated from the crane in the Project Site at 9:13pm on 5 August 2014. The complainant also mentioned that this sound usually stops in the evening when the workers have left.

1. According to the Contractor, the noise was originated from a device on the hook of the tower crane that provides warning announcement to the workers working underneath the lifting operation. The location of the warning announcement from tower crane is shown in the figure below.

2. The warning announcement is designed to be activated by a remote control operated by the banksman of the tower crane. The Contractor confirmed that the device was accidentally activated on 5 August 2014 in the evening.



Mitigation Measures and Follow-up Actions Recommended to Contractor

All construction works are carried out strictly following the necessary requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. Immediately after the receipt of the complaint, the Contractor has sent an electrician back to the Project Site to turn off the device. To ensure that this incident does not occur in the future, the Contractor will cut off the power of the device before the workers leave the site on a daily basis. Upon agreement by HKJC, an email reply will be issued to the complainant.

Date of File Closed : 22 August 2014

Approved by:

ET Leader	IEC	JCCPS's Representative	Rocco Design Architect's Representative
(Name: Winnie Ko)	(Name: Sharifah Or)	(Name: C. W. Shan)	(Name: CHARLES KUNG)
Date: 22 August 2014	Date: 28 August 2014	Date: 27/8/2014	Date: 28/8/2014

Gammon's Representative

(Name: CLIFF LEUNG)
Date: 2014.08.27

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COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

Log Number:	**2014/08/002**
Date of Complaint Received	11 August 2014
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Gammon Construction Limited (Contractor)
Complainant	Marcus Shenn, nearby resident

Details of Complaint

The Contractor received a complaint on noise nuisance from a resident living on Chancery Lane on 11 August 2014. The complaint was transferred to the Project's Environmental Team on the same day. The complainant mentioned that construction noise was emanated from manual construction activities such as scaffold unloading, hammering and rebar preparation works at the upper platform area of the CPS Project Site.

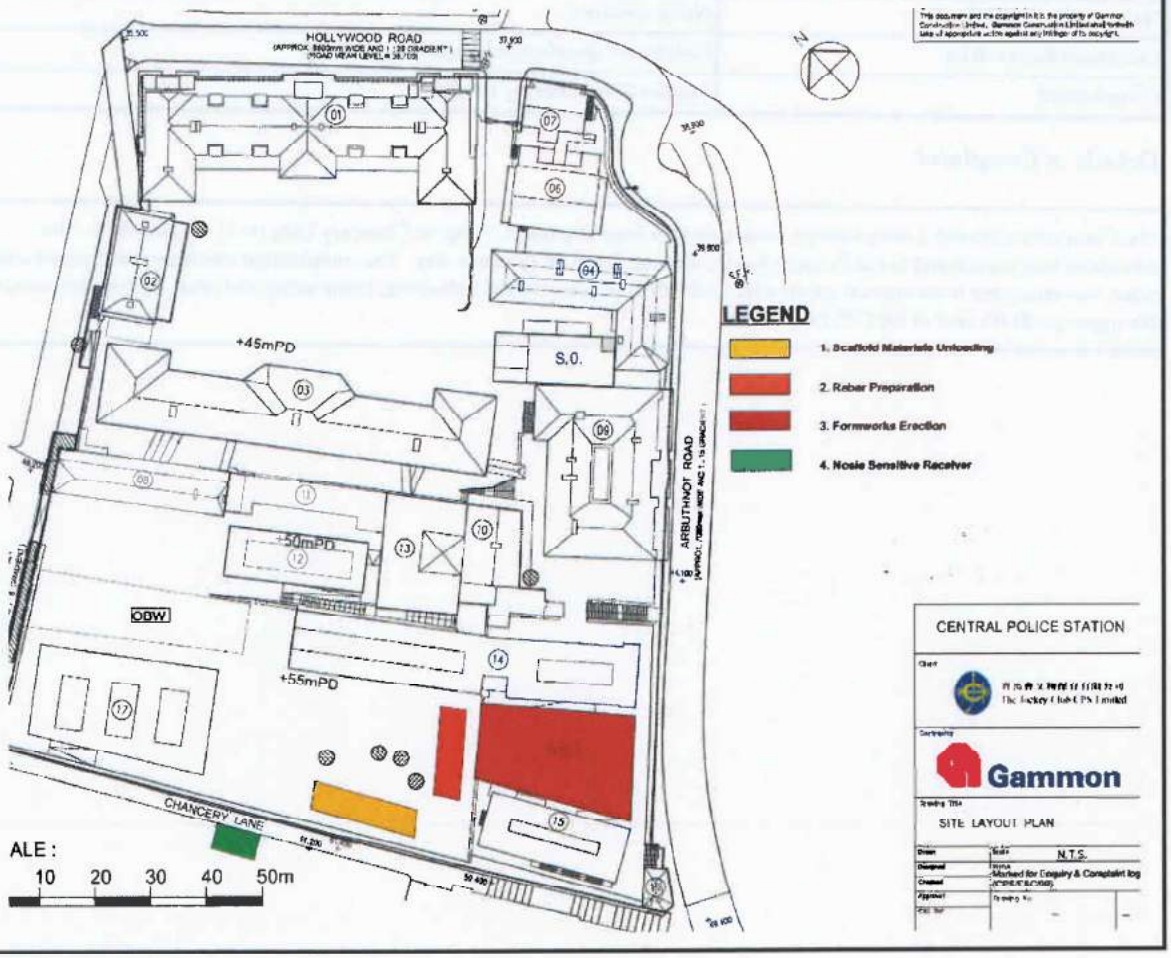
Investigation Report

1. According to the Contractor's works summary, the noise nuisance is suspected to be related to day-to-day manual construction activities at the upper platform area during normal working hours. The locations of these manual construction activities are shown in the figure below.

2. On 11 August 2014 morning, the complainant invited the Contractor to visit his dwelling to discuss the construction noise from the CPS Project Site. The following construction works were observed from his dwelling:

   - Scaffold materials unloading between Block 14 and Block 15;
   - Rebar preparation near Block 14; and
   - Formworks erection at Arbuthnot Wing.

3. Weekly daytime noise monitoring at designated noise monitoring stations (NM2 and NM6) are conducted according to EM&A requirement. Noise monitoring results in the past 4 weeks showed compliance with the construction noise standard.



Mitigation Measures and Follow-up Actions Recommended to Contractor

All construction works are carried out strictly following the necessary requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. After the meeting with the complainant, the time of commencement of the mentioned construction works at upper platform area would be postponed to after 9:00am on a daily basis. Also, the operation team and works contractor have been reminded to handle the scaffold materials and other works activities with care to avoid causing noise nuisance as much as possible.

Date of File Closed : 22 August 2014

Approved by:

ET Leader	IEC	JCCPS's Representative	Rocco Design Architect's Representative
(Name: Winnie Ko)	(Name: Sharifah Or)	(Name: C W Sham)	(Name: CHARLES KUNG)
Date: 22 August 2014	Date: 22 August 2014	Date: 27/8/2014	Date: 28/8/2014

Gammon's Representative

(Name: CLIFF LEUNG)
Date: 2014.08.27

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COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

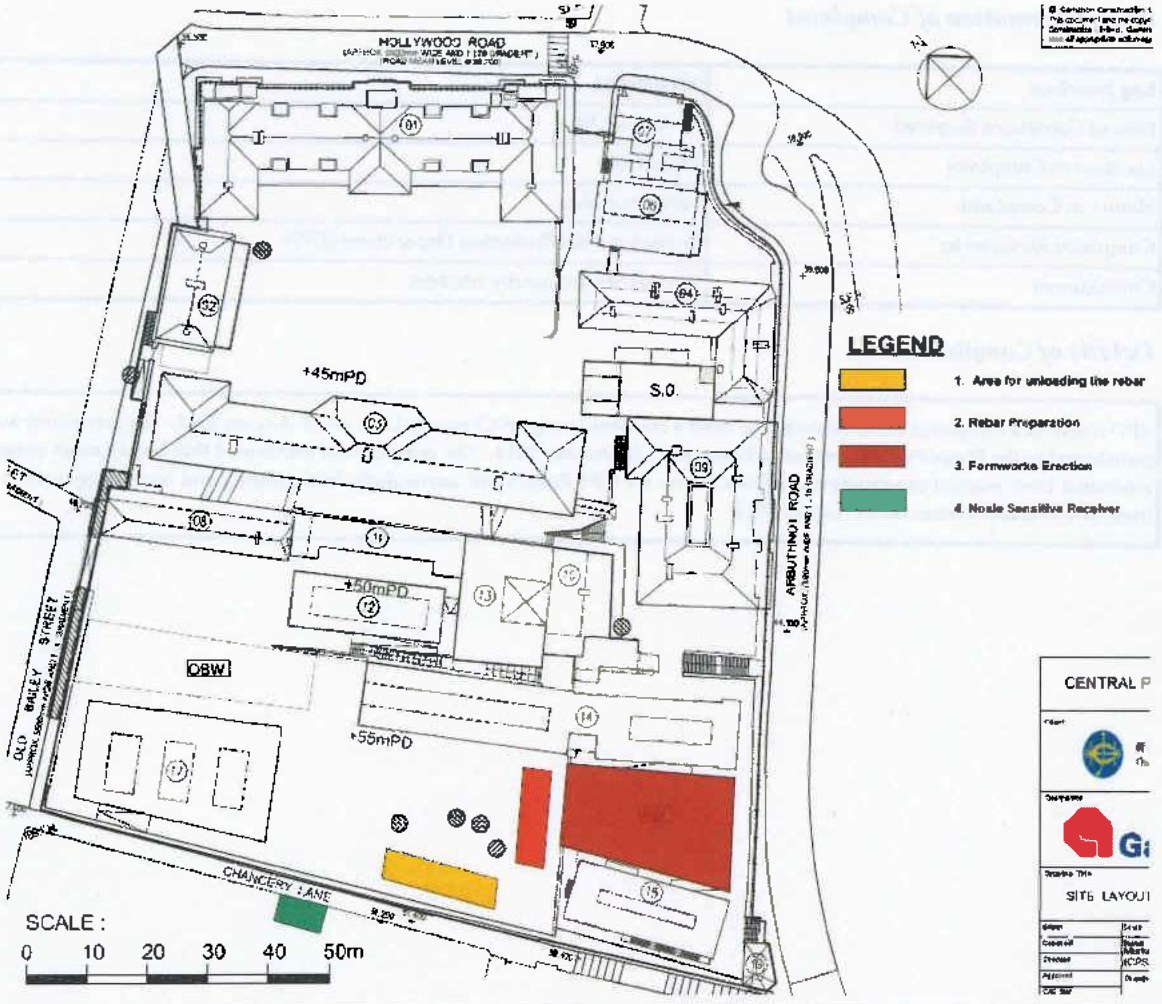
Log Number:	**2014/08/003**
Date of Complaint Received	28 August 2014
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Environmental Protection Department (EPD)
Complainant	Marcus Shenn, nearby resident

Details of Complaint

EPD received a complaint on noise nuisance from a resident living on Chancery Lane on 28 August 2014. The complaint was transferred to the Project's Environmental Team on 11 September 2014. The complainant mentioned that construction noise was emanated from manual construction activities within the CPS Project Site, particularly from loading and unloading metal materials at about 8:00am on 28 August 2014.

1. The noise nuisance is suspected to be related to loading and unloading of a batch of rebar at the upper platform area during normal working hours. The locations of these manual construction activities are shown in the figure below.

2. Weekly daytime noise monitoring at designated noise monitoring stations (NM2 and NM6) are conducted according to EM&A requirement. Noise monitoring results in the past 4 weeks showed compliance with the construction noise standard.



Mitigation Measures and Follow-up Actions Recommended to Contractor

All construction works are carried out strictly following the necessary requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The time of commencement of noisy construction works at the upper platform area would be postponed to after 9:00am on a daily basis. Also, the operation team and works contractor have been reminded to perform material handling and other works activities with care to avoid causing noise nuisance as much as possible.

Date of File Closed : 7 October 2014

Approved by:

ET Leader	IEC	JCCPS's Representative	Rocco Design Architect's Representative
(Name: Winnie Ko)	(Name: Sharifah Or)	(Name: C W Shaw)	(Name: CHARLES KWONG)
Date: 7 October 2014	Date: 8 October 2014	Date: 8 Oct. 2014	Date: 8 Oct 2014

Gammon's Representative

(Name: CLIFF LEUNG)
Date: 2014.10.08

COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

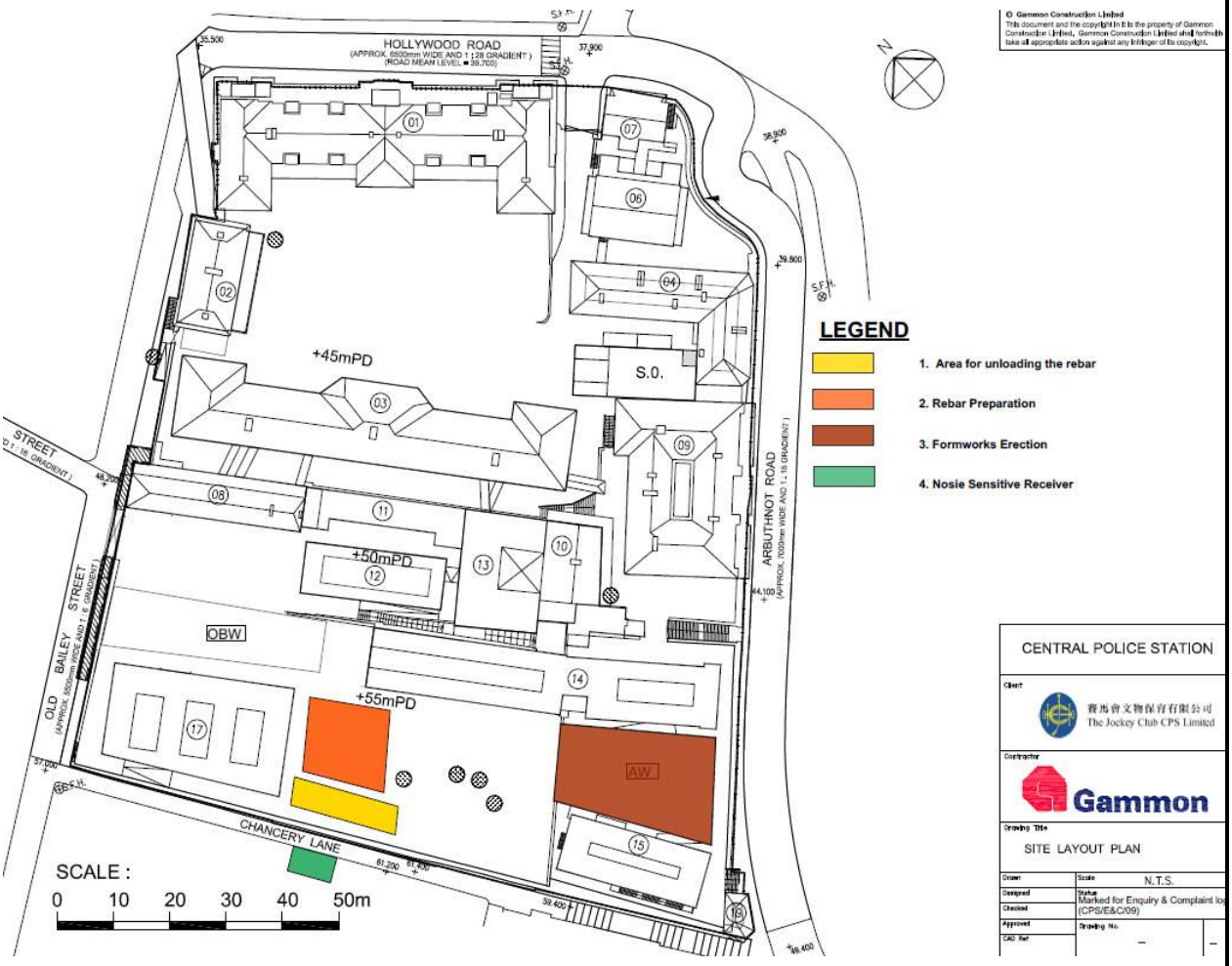
Log Number:	**2014/09/001**
Date of Complaint Received	22 September 2014
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Environmental Protection Department (EPD)
Complainant	Marcus Shenn, nearby resident

Details of Complaint

EPD received a complaint on noise nuisance from a resident living on Chancery Lane on 22 September 2014. The complaint was transferred to the Project's Environmental Team on 8 October 2014. The complainant mentioned that there was excessive construction noisy work from the CPS Project Site between 0745 to 0900 hours on 22 September 2014.

1. The noise nuisance is suspected to be related to handling of rebars after 0800 hour during normal working hours on 22 September 2014. The location of the mentioned works is shown in the figure below.

2. Weekly daytime noise monitoring at designated noise monitoring stations (NM2 and NM6) are conducted according to EM&A requirement. Noise monitoring results in the past 4 weeks showed compliance with the construction noise standard.



Mitigation Measures and Follow-up Actions Recommended to Contractor

All construction works are carried out strictly following the necessary requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The time of commencement of noisy construction works including handling of rebars at the upper platform area would be performed after 9:00am on a daily basis. Also, the operation team and works contractors have been reminded to carry out material handling and other works activities with care to avoid causing noise nuisance as much as possible.

Date of File Closed : 10 October 2014

Approved by:

ET Leader	IEC	JCCPS's Representative	Rocco Design Architect's Representative
(Name: Winnie Ko)	(Name: Sharifah Or)	(Name: C.W. Shan)	(Name: Charles King)
Date: 10 October 2014	Date: 17 October 2014	Date: 21 Oct 2014	Date: 28 Oct 2014

Gammon's Representative

(Name: CLIFF LEUNG)
Date: 2014. 10. 15

COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

Log Number:	**2014/09/002**
Date of Complaint Received	26 September 2014
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Environmental Protection Department (EPD)
Complainant	Marcus Shenn, nearby resident

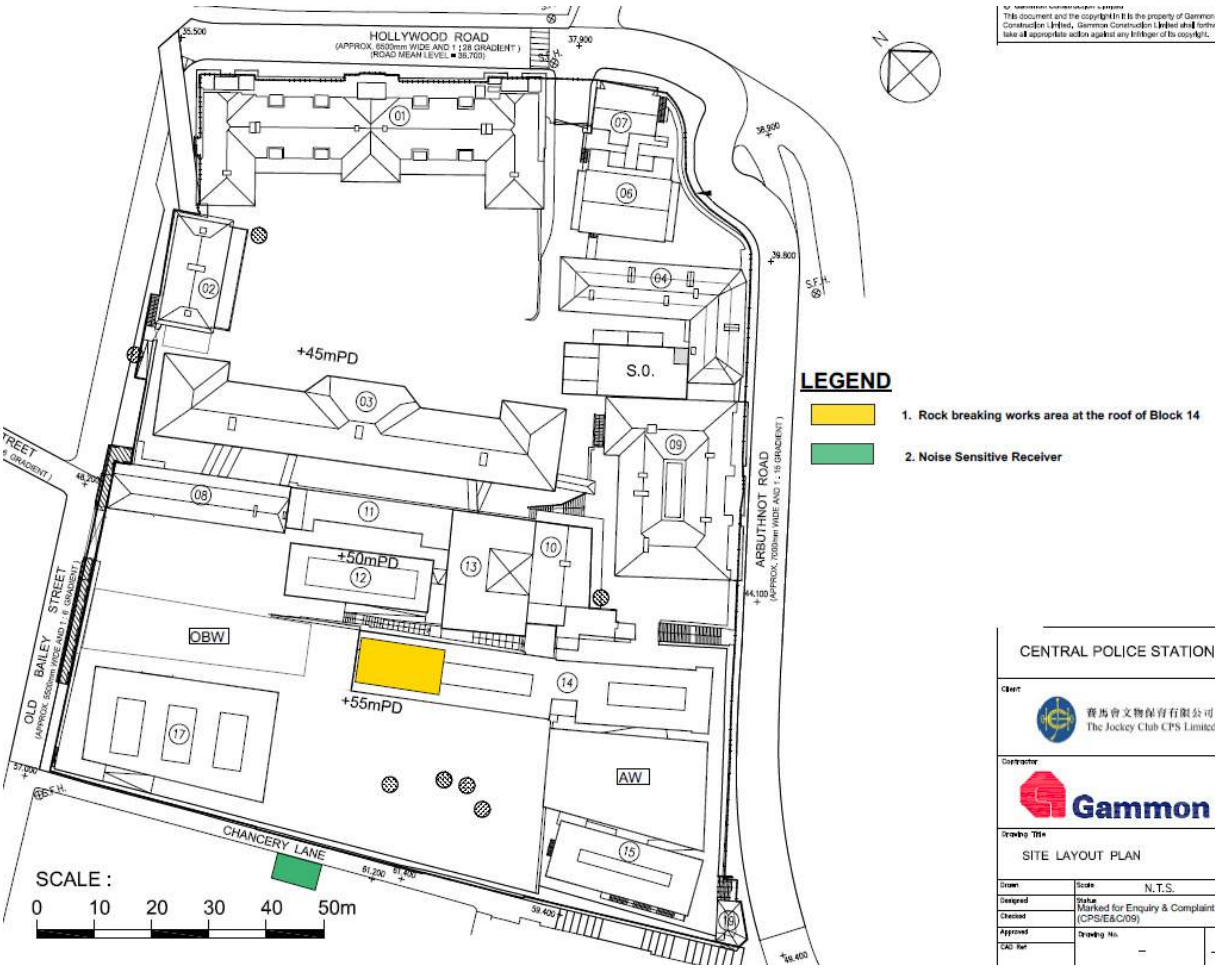
Details of Complaint

EPD received a complaint on noise nuisance from a resident living on Chancery Lane on 26 September 2014. The complaint was transferred to the Project's Environmental Team on the same day. The complainant mentioned that noise nuisance from concrete breaking works was emanated from the CPS Project Site in the afternoon of 26 September 2014.

Investigation Report

1. The noise nuisance is suspected to be related to concrete breaking works at the rooftop of Block 14 during normal working hours on 26 September 2014. The location of the mentioned works is shown in the figure below.

2. Weekly daytime noise monitoring at designated noise monitoring stations (NM2 and NM6) are conducted according to EM&A requirement. Noise monitoring results in the past 4 weeks showed compliance with the construction noise standard.



Mitigation Measures and Follow-up Actions Recommended to Contractor

All construction works are carried out strictly following the necessary requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The operation team stopped the concrete breaking works at Block 14 rooftop immediately after the receipt of the complaint. The works contractor later erected acoustic curtain to screen the direct line of sight of the complainant to the Block 14 rooftop prior to resuming the concrete breaking works. According to the Contractor, the concrete breaking works at Block 14 rooftop has been completed on 27 September 2014.

Date of File Closed : 10 October 2014

Approved by:

ET Leader	IEC	JCCPS's Representative	Rocco Design Architect's Representative
(Name: Winnie Ko)	(Name: Sharifah Or)	(Name: C W Shan)	(Name: Charles Kung
Date: 10 October 2014	Date: 17 October 2014	Date: 21 Oct 2014	Date: 28 Oct 2014

Gammon's Representative

(Name: CHIT LOUIE)
Date: 2014.10.15

COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

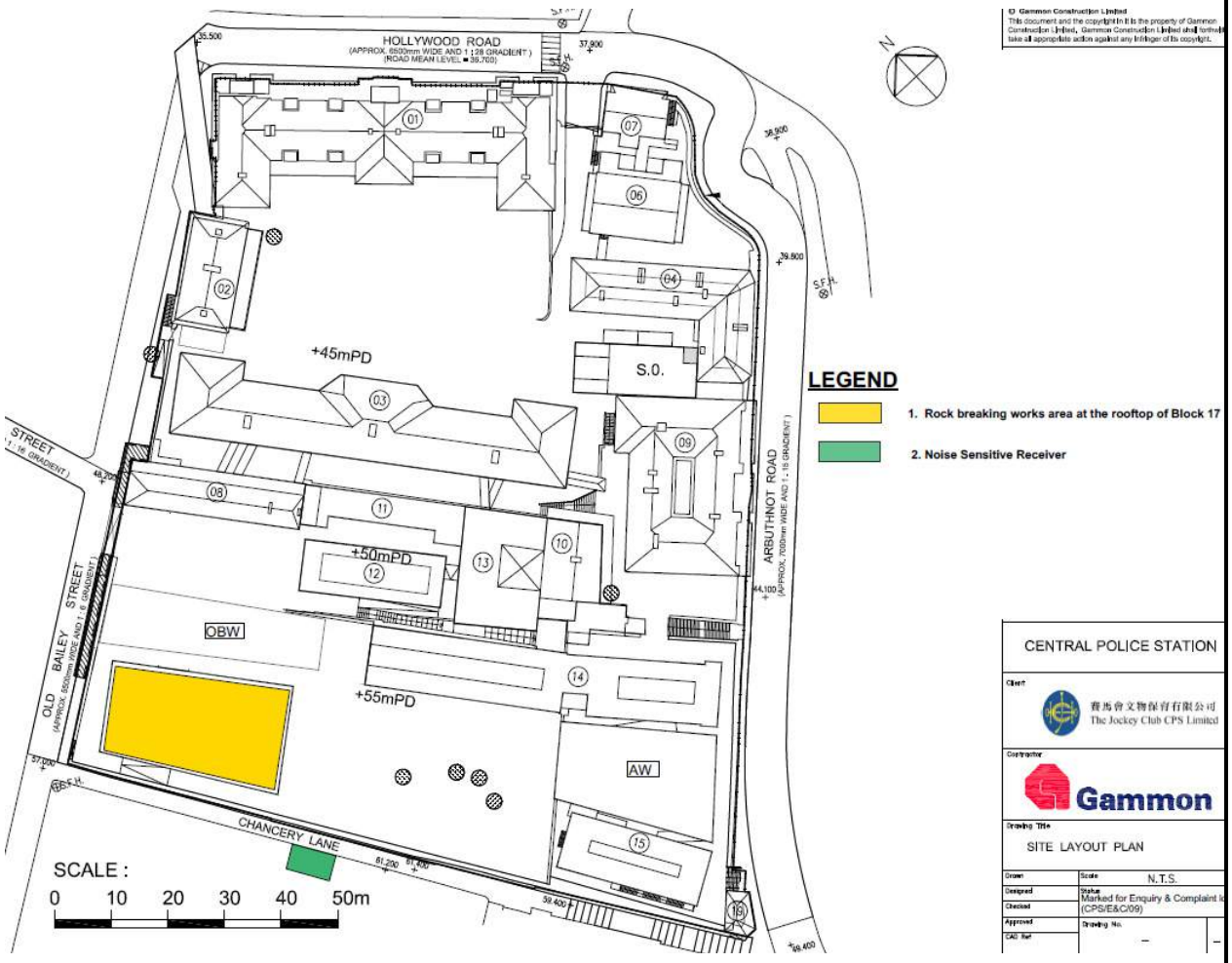
Log Number:	**2014/10/001**
Date of Complaint Received	17 October 2014
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Gammon Construction Limited (GCL)
Complainant	Marcus Shenn, nearby resident

Details of Complaint

GCL received a complaint on noise nuisance from a resident living on Chancery Lane on 17 October 2014. The complaint was transferred to the Project's Environmental Team on the same day. The complainant mentioned that noise nuisance from concrete breaking works was emanated from the CPS Project Site in the morning of 17 October 2014.

1. The noise nuisance is suspected to be related to concrete breaking works for the removal of existing rendering and kerb at the rooftop of Block 17 during normal working hours on 17 October 2014. The location of the mentioned works is shown in the figure below.

2. Weekly daytime noise monitoring at designated noise monitoring stations (NM2 and NM6) are conducted according to EM&A requirement. Noise monitoring results in the past 4 weeks showed compliance with the construction noise standard.



Mitigation Measures and Follow-up Actions Recommended to Contractor

All construction works are carried out strictly following the necessary requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The operation team stopped the concrete breaking works at Block 17 rooftop immediately after the receipt of the complaint. GCL has requested the works contractor to erect acoustic curtain to screen the direct line of sight of the complainant to the Block 17 rooftop prior to resuming the concrete breaking works. According to the Contractor, the concrete breaking works at Block 17 rooftop will be ongoing until November 2014.

Date of File Closed : 24 October 2014

Approved by:

ET Leader	IEC	JCCPS's Representative	Rocco Design Architect's Representative
(Name: Winnie Ko) Date: 24 October 2014	(Name: Sharifah Or) Date: 27 October 2014	(Name: C W Sham) Date: 29 Oct 2014	(Name: CHARLES KUNG) Date: 29 Oct 14

Gammon's Representative

(Name: ALAN MO)
Date: 24-OCT-14

Annex K

Records of Vibration Monitoring for Trial Piling and Piling Works

Pipe pile wall, grout curtain and excavation and lateral support at Parade Ground

WYNDHAM STREET

ARBUTHNOT ROAD

HOLLYWOOD ROAD

OLD BAILEY STREET

CHANCERY LANE

MONITORING ZONE A

EXTENT OF PARADE GROUND BASEMENT EXCAVATION WORK

Central Police Station

Victoria Prison

The Centrium

Chinachem Hollywood Centre

Hollywood Commercial House

Ho Fook Building

Winning House

Wing Lee Building

Villa Serene

Cambridge Villa

Chancery Mansion

Tung Yuen Building

Podium

11SW-B/R17
11SW-B/R18
11SW-B/R22
11SW-B/R605
11SW-B/R23
11SW-B/R806
11SW-B/R24
11SW-B/R175
11SW-B/R52
11SW-B/R53
11SW-B/R19
11SW-B/R174
11SW-B/R177
11SW-B/R55
11SW-B/R54
11SW-B/R178

NOTES:
1. UTILITIES SETTLEMENT POINTS (UT1 TO UT5) SHALL ONLY BE INSTALLED AFTER EXCAVATION PERMIT IS OBTAINED. AS ALTERNATIVE SETTLEMENT POINTS (GS18 AND GS19) MAY BE INSTALLED.
2. SHOULD UT1 TO UT5 BE INSTALLED, GS18 AND GS19 SHALL NOT BE REQUIRED.
3. EITHER UTILITIES SETTLEMENT MARKERS (UT1 TO UT5) OR GROUND SETTLEMENT MARKERS (GS18 AND GS19) SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF OLD BAILEY WING ELS WORKS.

LEGEND
- EXISTING FRESH WATER MAIN
- EXISTING SALT WATER MAIN
- EXISTING STREET LIGHTING NO. 3348B-A1
- EXISTING STREET LIGHTING CABLE
- EXISTING GAS MAIN
- EXISTING HV ELECTRICITY CABLE
- EXISTING LV ELECTRICITY CABLE
- EXISTING TELECOMMUNICATION DUCT (HUTCHISON GLOBAL COMMUNICATIONS LIMITED)
- EXISTING STORMWATER DRAIN
- EXISTING FOUL SEWER
- PROPOSED FOUL SEWER
- SITE BOUNDARY
- EXISTING RETAINING WALL
- DH1(S,P) EXISTING DRILLHOLE WITH STANDPIPE/PIEZOMETER
- BS1-1/BT1-1 PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER
- RS174-1/RT174-1 PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER
- IN1-1 PROPOSED INCLINOMETER TO BE BUILT IN BORED PILE WALL OR PIPE PILE WALL
- GS1 PROPOSED GROUND SETTLEMENT POINTS
- UT1 PROPOSED UTILITY MONITORING POINTS
- VW1-1 PROPOSED VIBRATION MONITORING POINTS
- ADH1(S/P) PROPOSED ADDITIONAL DRILLHOLE

Note: This plan has been processed on a curtailed check basis under the centralized processing system as promulgated in PNAD(M)-16. The duties of the authorised person, registered structural engineer and/or registered geotechnical engineer concerned specified under section 4(3)(b) and the provision of section 14(2) of the Buildings Ordinance are of particular relevance in this regard.

Plan Approved
NG Kin-shing
Chief Structural Engineer
for BUILDING AUTHORITY
- 3 MAY 2012

Key Plan 索引圖

BD SUBMISSION
Drawing Status 製圖狀況

Client 業主
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Project 項目
CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT

Drawing Title 圖名
MONITORING LAYOUT PLAN

Scale 比例	Drawn 繪圖	Checked 核對
1:300@A1	K.C.Lo	AL

Drawing No. 圖號 00-0AP209674-C-001 Revision 修訂版 A

Cad file : 00-0AP209674-C-001.dwg

Gammon

Vibration Record of WP107

POINT	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Nov-13	**0.147**	**0.108**	**0.108**	**0.117**	**0.182**
02-Nov-13	**0.214**	**0.139**	**0.708**	**0.884**	**0.098**
03-Nov-13	**Sunday**				
04-Nov-13	**0.177**	**0.103**	**0.086**	**0.086**	**0.125**
05-Nov-13	**0.102**	**0.159**	**0.290**	**0.690**	**0.143**
06-Nov-13	**0.321**	**0.565**	**0.121**	**0.102**	**0.102**
07-Nov-13	**0.519**	**0.518**	**0.097**	**0.106**	**0.157**
08-Nov-13	**0.196**	**0.169**	**0.248**	**0.083**	**0.131**
09-Nov-13	**0.211**	**0.154**	**0.138**	**0.172**	**0.125**
10-Nov-13	**Sunday**				
11-Nov-13	**0.325**	**0.563**	**0.105**	**0.257**	**0.135**
12-Nov-13	**1.300**	**0.244**	**0.129**	**0.128**	**0.163**
13-Nov-13	**0.325**	**0.563**	**0.105**	**0.257**	**0.135**
14-Nov-13	**0.103**	**0.104**	**0.194**	**0.169**	**0.180**
15-Nov-13	**0.206**	**0.151**	**0.202**	**0.269**	**0.154**
16-Nov-13	**0.241**	**0.773**	**0.174**	**0.618**	**0.278**
17-Nov-13	**Sunday**				
18-Nov-13	**0.933**	**0.209**	**0.178**	**0.151**	**0.132**
19-Nov-13	**0.262**	**0.388**	**0.253**	**0.252**	**0.166**
20-Nov-13	**0.379**	**0.341**	**1.030**	**0.225**	**0.147**
21-Nov-13	**0.437**	**0.307**	**0.230**	**0.186**	**0.182**
22-Nov-13	**0.102**	**0.318**	**0.318**	**0.102**	**0.160**
23-Nov-13	**0.127**	**0.177**	**0.261**	**0.137**	**0.154**
24-Nov-13	**Sunday**				
25-Nov-13	**0.429**	**0.135**	**0.192**	**0.270**	**0.132**
26-Nov-13	**0.983**	**0.166**	**0.335**	**0.159**	**0.112**
27-Nov-13	**0.187**	**0.252**	**0.160**	**0.182**	**0.166**
28-Nov-13	**0.380**	**0.145**	**0.129**	**0.338**	**0.145**
29-Nov-13	**0.221**	**0.177**	**0.122**	**0.386**	**0.135**
30-Nov-13	**0.529**	**0.398**	**0.106**	**0.129**	**0.117**

Vibration Monitoring Record of December (Block 1, Block 11 and Parade Ground)

	Block 1		Block 11		Parade Ground				
POINT	VM1-1	VM1-2	VM11-1	VM11-2	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
1-Dec-13	SUNDAY								
2-Dec-13	0.354	0.378	0.147	0.186	0.354	0.378	0.125	0.091	0.125
3-Dec-13	0.106	0.262	0.098	0.163	0.106	0.262	0.239	0.132	0.146
4-Dec-13	0.290	0.306	0.328	0.207	0.290	0.306	0.718	0.245	0.111
5-Dec-13	0.097	0.246	0.125	0.151	0.097	0.246	0.175	0.081	0.150
6-Dec-13	0.098	0.103	0.186	0.243	0.098	0.103	0.207	0.117	0.279
7-Dec-13	0.100	0.104	0.120	0.132	0.100	0.104	0.129	0.436	0.316
8-Dec-13	SUNDAY								
9-Dec-13	0.217	0.129	0.282	0.322	0.217	0.129	0.095	0.091	0.083
10-Dec-13	0.154	0.117	0.239	0.132	0.154	0.117	0.081	0.153	0.270
11-Dec-13	0.462	0.272	0.129	0.147	0.462	0.272	0.182	0.206	0.241
12-Dec-13	0.160	0.171	0.252	0.125	0.160	0.171	0.223	0.182	0.113
13-Dec-13	0.146	0.102	0.163	0.250	0.146	0.102	0.207	0.216	0.093
14-Dec-13	0.323	0.773	0.178	0.147	0.323	0.773	0.127	0.135	0.137
15-Dec-13	SUNDAY								
16-Dec-13	0.176	0.184	0.086	0.081	0.176	0.184	0.143	0.370	0.097
17-Dec-13	0.104	0.086	0.087	0.117	0.104	0.086	0.086	0.124	0.142
18-Dec-13	0.128	0.241	0.223	0.256	0.128	0.241	0.160	0.102	0.117
19-Dec-13	0.353	0.105	0.230	0.496	0.353	0.105	0.112	0.136	0.256
20-Dec-13	0.118	0.168	0.157	0.172	0.118	0.168	0.097	0.312	0.167
21-Dec-13	0.162	0.203	0.086	0.117	0.162	0.203	0.135	0.183	0.142
22-Dec-13	SUNDAY								
23-Dec-13	0.143	0.102	0.249	0.160	0.143	0.102	0.489	0.912	0.175
24-Dec-13	0.087	0.285	0.153	0.132	0.087	0.285	0.087	0.272	0.166
25-Dec-13	HOLIDAY								
26-Dec-13	HOLIDAY								
27-Dec-13	0.087	0.735	0.683	0.739	0.087	0.735	0.086	0.093	0.940
28-Dec-13	0.093	0.657	0.221	0.198	0.093	0.657	0.384	0.093	0.470
29-Dec-13	SUNDAY								
30-Dec-13	0.896	0.176	0.150	0.097	0.896	0.176	0.198	0.239	0.226
31-Dec-13	0.182	0.746	0.180	0.254	0.182	0.746	0.650	0.184	1.040

Vibration Monitoring Record (Jan)

	Parade Ground				
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Jan-14	**Holiday**				
02-Jan-14	**0.258**	**0.113**	**0.098**	**0.203**	**0.268**
03-Jan-14	**0.091**	**0.121**	**0.112**	**0.237**	**0.147**
04-Jan-14	**0.220**	**0.310**	**0.105**	**0.278**	**0.196**
05-Jan-14	**Sunday**				
06-Jan-14	**0.086**	**0.100**	**0.086**	**0.143**	**0.243**
07-Jan-14	**0.087**	**0.306**	**0.147**	**0.414**	**0.225**
08-Jan-14	**0.125**	**0.182**	**0.125**	**0.192**	**0.113**
09-Jan-14	**0.163**	**0.156**	**0.091**	**0.125**	**0.169**
10-Jan-14	**0.144**	**0.129**	**0.128**	**0.087**	**0.227**
11-Jan-14	**0.817**	**0.216**	**0.091**	**0.103**	**0.163**
12-Jan-14	**Sunday**				
13-Jan-14	**0.098**	**0.094**	**0.125**	**0.095**	**0.248**
14-Jan-14	**0.113**	**0.128**	**0.117**	**0.091**	**0.086**
15-Jan-14	**0.097**	**0.144**	**0.128**	**0.113**	**0.116**
16-Jan-14	**0.191**	**0.129**	**0.093**	**0.086**	**0.097**
17-Jan-14	**0.163**	**0.209**	**0.147**	**0.182**	**0.209**
18-Jan-14	**0.132**	**0.212**	**0.217**	**0.093**	**0.128**
19-Jan-14	**Sunday**				
20-Jan-14	**0.146**	**0.143**	**0.117**	**0.131**	**0.087**
21-Jan-14	**0.130**	**0.131**	**0.217**	**0.241**	**0.157**
22-Jan-14	**0.144**	**0.142**	**0.178**	**0.116**	**0.102**
23-Jan-14	**0.108**	**0.137**	**0.098**	**0.121**	**0.137**
24-Jan-14	**0.091**	**0.174**	**0.093**	**0.117**	**0.086**
25-Jan-14	**0.128**	**0.129**	**0.208**	**0.097**	**0.223**
26-Jan-14	**Sunday**				
27-Jan-14	**0.404**	**0.116**	**0.143**	**0.579**	**0.414**
28-Jan-14	**0.197**	**0.140**	**0.272**	**0.160**	**0.100**
29-Jan-14	**0.092**	**0.081**	**0.097**	**0.081**	**0.124**
30-Jan-14	**Site Closed**				
31-Jan-14	**Holiday**				

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	Parade Ground				
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Feb-14	**Holiday**				
02-Feb-14	**Sunday**				
03-Feb-14	**Holiday**				
04-Feb-14	**Site Closed**				
05-Feb-14	**Site Closed**				
06-Feb-14	**0.087**	**0.086**	**0.102**	**0.146**	**0.116**
07-Feb-14	**0.087**	**0.138**	**0.143**	**0.094**	**0.086**
08-Feb-14	**0.083**	**0.097**	**0.178**	**0.102**	**0.766**
09-Feb-14	**Sunday**				
10-Feb-14	**0.228**	**0.132**	**0.103**	**0.160**	**0.102**
11-Feb-14	**0.098**	**0.264**	**0.132**	**0.100**	**0.104**
12-Feb-14	**0.456**	**0.383**	**0.132**	**0.254**	**0.329**
13-Feb-14	**0.322**	**0.285**	**0.340**	**0.102**	**0.105**
14-Feb-14	**0.355**	**0.176**	**0.281**	**0.466**	**0.259**
15-Feb-14	**0.319**	**0.244**	**0.270**	**0.312**	**0.151**
16-Feb-14	**Sunday**				
17-Feb-14	**0.131**	**0.225**	**0.163**	**0.146**	**0.098**
18-Feb-14	**0.100**	**0.137**	**0.132**	**0.121**	**0.097**
19-Feb-14	**0.383**	**0.102**	**0.414**	**0.318**	**0.209**
20-Feb-14	**0.111**	**0.151**	**0.098**	**0.098**	**0.103**
21-Feb-14	**0.325**	**0.175**	**0.175**	**0.214**	**0.119**
22-Feb-14	**0.153**	**0.106**	**0.233**	**0.136**	**0.132**
23-Feb-14	**Sunday**				
24-Feb-14	**0.176**	**0.147**	**0.159**	**0.103**	**0.178**
25-Feb-14	**0.719**	**0.566**	**0.595**	**0.125**	**0.103**
26-Feb-14	**0.151**	**0.160**	**0.097**	**0.128**	**0.147**
27-Feb-14	**0.170**	**0.144**	**0.120**	**0.175**	**0.103**
28-Feb-14	**0.112**	**0.105**	**0.111**	**0.223**	**0.184**

Vibration Monitoring Record (March)

	Parade Ground				
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Mar-14	0.091	0.100	0.105	0.091	0.116
02-Mar-14	Sunday				
03-Mar-14	0.191	0.113	0.125	0.176	0.098
04-Mar-14	0.159	0.151	0.106	0.121	0.202
05-Mar-14	0.194	0.131	0.132	0.192	0.122
06-Mar-14	0.129	0.742	1.020	0.120	0.102
07-Mar-14	1.080	0.472	0.259	0.286	0.225
08-Mar-14	0.537	0.214	0.362	0.211	0.185
09-Mar-14	Sunday				
10-Mar-14	0.306	0.242	0.129	0.350	0.102
11-Mar-14	0.251	0.198	0.322	0.281	0.147
12-Mar-14	0.255	0.172	0.559	0.146	0.503
13-Mar-14	0.103	0.117	0.194	0.678	0.192
14-Mar-14	0.168	0.103	0.221	0.175	0.138
15-Mar-14	0.182	0.142	0.281	0.168	0.114
16-Mar-14	Sunday				
17-Mar-14	0.145	0.128	0.239	0.446	0.113
18-Mar-14	0.168	0.117	0.183	0.228	0.114
19-Mar-14	0.259	0.128	0.090	0.086	0.190
20-Mar-14	0.864	0.258	0.870	0.217	0.236
21-Mar-14	0.181	0.160	0.111	0.145	0.166
22-Mar-14	0.105	0.290	0.218	0.094	0.098
23-Mar-14	Sunday				
24-Mar-14	0.160	0.145	0.317	0.116	0.279
25-Mar-14	0.144	0.129	0.348	0.098	0.357
26-Mar-14	0.462	0.132	0.197	0.611	0.503
27-Mar-14	0.163	0.086	0.094	0.197	0.128
28-Mar-14	0.335	0.174	0.156	0.128	0.095
29-Mar-14	0.120	0.111	0.176	0.429	0.382
30-Mar-14	Sunday				
31-Mar-14	0.086	0.286	0.086	0.112	0.147

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Vibration Monitoring Record (April)

	Parade Ground				
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Apr-14	**0.102**	**0.139**	**0.093**	**0.422**	**0.350**
02-Apr-14	**0.098**	**0.087**	**0.093**	**0.087**	**0.245**
03-Apr-14	**0.157**	**0.114**	**0.138**	**0.251**	**0.167**
04-Apr-14	**0.202**	**0.175**	**0.152**	**0.371**	**0.128**
05-Apr-14	Holiday				
06-Apr-14	Sunday				
07-Apr-14	**0.265**	**0.126**	**0.316**	**0.203**	**0.185**
08-Apr-14	**0.102**	**0.658**	**0.171**	**0.122**	**0.151**
09-Apr-14	**0.272**	**0.237**	**0.108**	**0.351**	**0.383**
10-Apr-14	**0.186**	**0.115**	**0.201**	**0.286**	**0.126**
11-Apr-14	**0.129**	**0.160**	**0.113**	**0.087**	**0.117**
12-Apr-14	**0.502**	**0.327**	**0.434**	**0.397**	**0.426**
13-Apr-14	Sunday				
14-Apr-14	**0.217**	**0.168**	**0.135**	**0.231**	**0.118**
15-Apr-14	**0.112**	**0.086**	**0.087**	**0.098**	**0.175**
16-Apr-14	**0.163**	**0.116**	**0.208**	**0.158**	**0.182**
17-Apr-14	**0.493**	**0.243**	**0.187**	**0.169**	**0.247**
18-Apr-14	Holiday				
19-Apr-14	Holiday				
20-Apr-14	Sunday				
21-Apr-14	Holiday				
22-Apr-14	**0.169**	**0.137**	**0.147**	**0.166**	**0.162**
23-Apr-14	**0.944**	**0.192**	**0.117**	**0.258**	**0.432**
24-Apr-14	**0.111**	**0.145**	**0.120**	**0.242**	**0.588**
25-Apr-14	**0.178**	**0.243**	**0.159**	**0.166**	**0.122**
26-Apr-14	**0.137**	**0.147**	**0.870**	**0.237**	**0.242**
27-Apr-14	Sunday				
28-Apr-14	**0.182**	**0.221**	**0.164**	**0.128**	**0.177**
29-Apr-14	**0.236**	**0.526**	**0.241**	**0.487**	**0.163**
30-Apr-14	**0.241**	**0.212**	**0.177**	**0.163**	**0.160**

Vibration Monitoring Record (MAY)

	Parade Ground				
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-May-14	Holiday				
02-May-14	**0.439**	**0.760**	**0.369**	**0.687**	**0.316**
03-May-14	**0.217**	**0.283**	**0.138**	**0.384**	**0.176**
04-May-14	Sunday				
05-May-14	**0.251**	**0.251**	**0.143**	**0.087**	**0.087**
06-May-14	Holiday				
07-May-14	**0.193**	**0.205**	**0.169**	**0.159**	**0.112**
08-May-14	**0.349**	**0.083**	**0.117**	**0.327**	**0.098**
09-May-14	**0.259**	**0.164**	**0.271**	**0.314**	**0.241**
10-May-14	**0.338**	**0.141**	**0.261**	**0.624**	**0.228**
11-May-14	Sunday				
12-May-14	**0.341**	**0.254**	**0.595**	**0.431**	**0.272**
13-May-14	**0.087**	**0.087**	**0.106**	**0.102**	**0.090**
14-May-14	**0.095**	**0.268**	**0.111**	**0.196**	**0.144**
15-May-14	**0.571**	**0.236**	**0.145**	**0.102**	**0.164**
16-May-14	**0.175**	**0.172**	**0.132**	**0.095**	**0.647**
17-May-14	**0.663**	**0.208**	**0.156**	**0.351**	**0.191**
18-May-14	Sunday				
19-May-14	**0.438**	**0.423**	**0.242**	**0.304**	**0.333**
20-May-14	**0.128**	**0.145**	**0.421**	**0.176**	**0.802**
21-May-14	**0.164**	**0.251**	**0.235**	**0.199**	**0.204**
22-May-14	**0.103**	**0.117**	**0.194**	**0.678**	**0.192**
23-May-14	**0.124**	**0.146**	**0.162**	**0.162**	**0.137**
24-May-14	**0.193**	**0.281**	**0.116**	**0.371**	**0.265**
25-May-14	Sunday				
26-May-14	**0.209**	**0.208**	**0.209**	**0.416**	**0.310**
27-May-14	**0.307**	**0.652**	**0.574**	**0.423**	**0.739**
28-May-14	**0.150**	**0.147**	**0.108**	**0.290**	**0.203**
29-May-14	**0.539**	**0.370**	**0.194**	**0.214**	**0.244**
30-May-14	**0.349**	**0.319**	**0.406**	**0.259**	**0.247**
31-May-14	**0.128**	**0.227**	**0.117**	**0.223**	**0.381**

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Vibration Monitoring Record (JUNE)

	Parade Ground				
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Jun-14	Sunday				
02-Jun-14	Holiday				
03-Jun-14	0.429	0.444	0.392	0.430	0.365
04-Jun-14	0.361	0.228	0.176	0.339	0.216
05-Jun-14	0.169	0.281	0.310	0.185	0.167
06-Jun-14	0.132	0.201	0.177	0.244	0.298
07-Jun-14	0.398	0.196	0.639	0.285	0.266
08-Jun-14	Sunday				
09-Jun-14	0.281	0.359	0.354	0.114	0.139
10-Jun-14	0.346	0.160	0.106	0.137	0.166
11-Jun-14	0.240	0.318	0.371	0.570	0.150
12-Jun-14	0.137	0.097	0.209	0.098	0.164
13-Jun-14	0.206	0.171	0.305	0.286	0.225
14-Jun-14	0.120	0.395	0.200	0.093	0.102
15-Jun-14	Sunday				
16-Jun-14	0.648	0.319	0.208	0.106	0.103
17-Jun-14	0.102	0.402	0.216	0.128	0.243
18-Jun-14	0.105	0.761	0.189	0.208	0.106
19-Jun-14	0.198	0.165	0.256	0.171	0.794
20-Jun-14	0.151	0.186	0.164	0.291	0.220
21-Jun-14	0.395	0.172	0.202	0.635	0.196
22-Jun-14	Sunday				
23-Jun-14	0.904	0.306	0.290	0.176	0.700
24-Jun-14	0.154	0.166	0.158	0.335	0.157
25-Jun-14	0.291	0.118	0.221	0.396	0.152
26-Jun-14	0.395	0.298	0.146	0.285	0.124
27-Jun-14	0.212	0.138	0.197	0.632	0.241
28-Jun-14	0.281	0.191	0.400	0.184	0.177
29-Jun-14	Sunday				
30-Jun-14	0.311	0.197	0.173	0.491	0.205

Vibration Monitoring Record (JULY)

	Parade Ground				
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Jul-14	Sunday				
02-Jul-14	0.209	0.153	0.176	0.309	0.176
03-Jul-14	0.206	0.573	0.166	0.225	0.249
04-Jul-14	0.207	0.452	0.194	0.242	0.223
05-Jul-14	0.247	0.317	0.242	0.598	0.251
06-Jul-14	Sunday				
07-Jul-14	0.365	0.284	0.174	0.296	0.192
08-Jul-14	0.216	0.237	0.359	0.364	0.363
09-Jul-14	0.197	0.313	0.521	0.168	0.193
10-Jul-14	0.325	0.184	0.229	0.531	0.164
11-Jul-14	0.073	0.073	0.104	0.131	0.081
12-Jul-14	0.168	0.117	0.291	0.443	0.154
13-Jul-14	Sunday				
14-Jul-14	0.394	0.221	0.199	0.261	0.173
15-Jul-14	0.369	0.184	0.184	0.289	0.520
16-Jul-14	0.241	0.192	0.341	0.164	0.254
17-Jul-14	0.394	0.284	0.213	0.147	0.263
18-Jul-14	0.641	0.258	0.164	0.164	0.326
19-Jul-14	0.319	0.154	0.165	0.551	0.134
20-Jul-14	Sunday				
21-Jul-14	0.360	0.112	0.112	0.627	0.078
22-Jul-14	0.086	0.086	0.081	0.081	0.086
23-Jul-14	0.086	0.059	0.066	0.129	0.413
24-Jul-14	0.086	0.081	0.518	0.139	0.086
25-Jul-14	0.106	0.121	0.096	0.331	0.129
26-Jul-14	0.089	0.162	0.087	0.221	0.103
27-Jul-14	Sunday				
28-Jul-14	0.162	0.099	0.172	0.138	0.334
29-Jul-14	0.083	0.073	0.081	0.073	0.135
30-Jul-14	0.086	0.048	0.066	0.066	0.462
31-Jul-14	0.121	0.192	0.088	0.185	0.094

Gammon

Vibration Monitoring Record (August)

	Parade Ground				
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Aug-14	**0.198**	**0.132**	**0.074**	**0.651**	**0.165**
02-Aug-14	**0.169**	**0.089**	**0.321**	**0.184**	**0.549**
03-Aug-14	Sunday				
04-Aug-14	**0.647**	**0.106**	**0.185**	**0.481**	**0.348**
05-Aug-14	**0.149**	**0.654**	**0.087**	**0.314**	**0.134**
06-Aug-14	**0.096**	**0.174**	**0.442**	**0.248**	**0.101**
07-Aug-14	**0.160**	**0.489**	**0.118**	**0.349**	**0.249**
08-Aug-14	**0.197**	**0.085**	**0.295**	**0.641**	**0.211**
09-Aug-14	**0.499**	**0.189**	**0.185**	**0.128**	**0.596**
10-Aug-14	Sunday				
11-Aug-14	**0.097**	**0.198**	**0.168**	**0.219**	**0.076**
12-Aug-14	**0.326**	**0.140**	**0.097**	**0.138**	**0.111**
13-Aug-14	**0.289**	**0.168**	**0.154**	**0.368**	**0.184**
14-Aug-14	**0.132**	**0.241**	**0.128**	**0.288**	**0.357**
15-Aug-14	**0.366**	**0.274**	**0.184**	**0.284**	**0.117**
16-Aug-14	**0.098**	**0.106**	**0.241**	**0.116**	**0.085**
17-Aug-14	Sunday				
18-Aug-14	**0.614**	**0.118**	**0.125**	**0.209**	**0.195**
19-Aug-14	**0.149**	**0.189**	**0.158**	**0.166**	**0.096**
20-Aug-14	**0.392**	**0.144**	**0.362**	**0.168**	**0.123**
21-Aug-14	**0.146**	**0.165**	**0.185**	**0.311**	**0.124**
22-Aug-14	**0.135**	**0.160**	**0.179**	**0.278**	**0.118**
23-Aug-14	**0.196**	**0.185**	**0.158**	**0.106**	**0.088**
24-Aug-14	Sunday				
25-Aug-14	**0.338**	**0.168**	**0.210**	**0.224**	**0.144**
26-Aug-14	**0.294**	**0.174**	**0.186**	**0.210**	**0.130**
27-Aug-14	**0.302**	**0.157**	**0.153**	**0.188**	**0.174**
28-Aug-14	**0.134**	**0.184**	**0.156**	**0.348**	**0.115**
29-Aug-14	**0.197**	**0.192**	**0.131**	**0.314**	**0.097**
30-Aug-14	**0.173**	**0.212**	**0.145**	**0.287**	**0.143**
31-Aug-14	Sunday				

Gammon

Vibration Monitoring Record (Sep 2014)

	Parade Ground				
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Sep-14	**0.169**	**0.158**	**0.096**	**0.132**	**0.328**
02-Sep-14	**0.091**	**0.136**	**0.112**	**0.385**	**0.171**
03-Sep-14	**0.348**	**0.087**	**0.176**	**0.314**	**0.198**
04-Sep-14	**0.281**	**0.134**	**0.125**	**0.318**	**0.147**
05-Sep-14	**0.355**	**0.191**	**0.158**	**0.285**	**0.106**
06-Sep-14	**0.167**	**0.180**	**0.132**	**0.212**	**0.147**
07-Sep-14	Sunday				
08-Sep-14	**0.349**	**0.083**	**0.117**	**0.327**	**0.098**
09-Sep-14	Holiday				
10-Sep-14	**0.150**	**0.147**	**0.108**	**0.290**	**0.203**
11-Sep-14	**0.198**	**0.121**	**0.087**	**0.211**	**0.285**
12-Sep-14	**0.464**	**0.118**	**0.272**	**0.124**	**0.138**
13-Sep-14	**0.174**	**0.215**	**0.093**	**0.241**	**0.156**
14-Sep-14	Sunday				
15-Sep-14	**0.149**	**0.109**	**0.098**	**0.167**	**0.325**
16-Sep-14	**0.154**	**0.166**	**0.158**	**0.335**	**0.241**
17-Sep-14	**0.086**	**0.081**	**0.314**	**0.139**	**0.147**
18-Sep-14	**0.098**	**0.139**	**0.227**	**0.093**	**0.151**
19-Sep-14	**0.281**	**0.191**	**0.400**	**0.184**	**0.177**
20-Sep-14	**0.119**	**0.145**	**0.188**	**0.174**	**0.132**
21-Sep-14	Sunday				
22-Sep-14	**0.132**	**0.180**	**0.204**	**0.128**	**0.117**
23-Sep-14	**0.211**	**0.142**	**0.165**	**0.227**	**0.114**
24-Sep-14	**0.207**	**0.252**	**0.194**	**0.242**	**0.123**
25-Sep-14	**0.151**	**0.086**	**0.164**	**0.291**	**0.120**
26-Sep-14	**0.073**	**0.127**	**0.104**	**0.231**	**0.081**
27-Sep-14	**0.395**	**0.172**	**0.102**	**0.235**	**0.196**
28-Sep-14	Sunday				
29-Sep-14	**0.134**	**0.202**	**0.216**	**0.189**	**0.114**
30-Sep-14	**0.154**	**0.126**	**0.236**	**0.335**	**0.157**

Gammon

Vibration Monitoring Record (October)

	Parade Ground				
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Oct-14	Holiday				
02-Oct-14	Holiday				
03-Oct-14	**0.197**	**0.198**	**0.088**	**0.219**	**0.076**
04-Oct-14	**0.218**	**0.087**	**0.176**	**0.324**	**0.148**
05-Oct-14	Sunday				
06-Oct-14	**0.339**	**0.076**	**0.369**	**0.287**	**0.116**
07-Oct-14	**0.173**	**0.112**	**0.145**	**0.217**	**0.143**
08-Oct-14	**0.095**	**0.102**	**0.314**	**0.109**	**0.147**
09-Oct-14	**0.150**	**0.127**	**0.108**	**0.290**	**0.253**
10-Oct-14	**0.083**	**0.172**	**0.189**	**0.217**	**0.135**
11-Oct-14	**0.338**	**0.168**	**0.121**	**0.224**	**0.140**
12-Oct-14	Sunday				
13-Oct-14	**0.212**	**0.118**	**0.197**	**0.132**	**0.201**
14-Oct-14	**0.209**	**0.189**	**0.158**	**0.266**	**0.114**
15-Oct-14	**0.185**	**0.165**	**0.179**	**0.278**	**0.108**
16-Oct-14	**0.206**	**0.213**	**0.166**	**0.205**	**0.149**
17-Oct-14	**0.206**	**0.178**	**0.135**	**0.296**	**0.255**
18-Oct-14	**0.327**	**0.127**	**0.104**	**0.131**	**0.099**
19-Oct-14	Sunday				
20-Oct-14	**0.163**	**0.198**	**0.257**	**0.122**	**0.356**
21-Oct-14	**0.192**	**0.099**	**0.127**	**0.314**	**0.116**
22-Oct-14	**0.134**	**0.172**	**0.341**	**0.205**	**0.189**
23-Oct-14	**0.316**	**0.149**	**0.185**	**0.431**	**0.167**
24-Oct-14	**0.181**	**0.236**	**0.189**	**0.177**	**0.132**
25-Oct-14	**0.375**	**0.155**	**0.172**	**0.204**	**0.198**
26-Oct-14	Sunday				
27-Oct-14	**0.197**	**0.152**	**0.123**	**0.241**	**0.198**
28-Oct-14	**0.177**	**0.122**	**0.115**	**0.187**	**0.211**
29-Oct-14	**0.205**	**0.117**	**0.262**	**0.172**	**0.115**
30-Oct-14	**0.491**	**0.151**	**0.285**	**0.189**	**0.102**
31-Oct-14	**0.136**	**0.219**	**0.188**	**0.234**	**0.103**

Foundation Pile Works at Block 8.

WYNDHAM STREET

ARBUTHNOT ROAD

EZRA'S LANE

HOLLYWOOD ROAD

OLD BAILEY STREET

CAMERON LANE

Garfield Commercial Building

Hollywood Centre

Podium

Au's Building

Central Police Station

Victoria Prison

The Centrium

Shiu King Court

Chancery Mansion

Cambridge Villa

Wing Hing House

Hollywood Commercial House

Ho Fook Building

Wing Lee Building

Villa Serene

Yuen Yuen Building

Chancery House

Podium

11SW-B/R17

11SW-B/R18

11SW-B/R22

11SW-B/R805

11SW-B/R806

11SW-B/R23

11SW-B/R52

11SW-B/R24

11SW-B/R53

11SW-B/R176

11SW-B/R19

11SW-B/R174

11SW-B/R175

11SW-B/R55

11SW-B/R177

11SW-B/R54

11SW-B/R178

WORKING ZONE FOR EXCAVATION BLOCK

Plan Approved

NG Kin-shing
Chief Structural Engineer
for BUILDING AUTHORITY
20 FEB 2012

Key Plan

BD SUBMISSION

Drawing Status

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Client

The Jockey Club CPS Limited

Design Consultant

HERZOG & DE MEURON

Conservation Architect

Executive Architect / AP

ROCCO

Structural Engineer / RSE

ARUP

M & E Engineer

JRP

Project Title

CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT

Drawing Title

MONITORING LAYOUT PLAN

Scale	Drawn	Checked
1:3000 A1	K.C.Lai	AL

Drawing No.

00-OAP209674-G-001

Revision

-

LEGEND

- EXISTING FRESH WATER MAIN
- EXISTING SALT WATER MAIN
- EXISTING STREET LIGHTING NO. 3348B-A1
- EXISTING STREET LIGHTING CABLE
- EXISTING GAS MAIN
- EXISTING HV ELECTRICITY CABLE
- EXISTING EV ELECTRICITY CABLE
- EXISTING TELECOMMUNICATION DUCT (HUTCHISON GLOBAL COMMUNICATIONS LIMITED)
- EXISTING STORMWATER DRAIN
- EXISTING FOUL SEWER
- PROPOSED FOUL SEWER
- SITE BOUNDARY
- EXISTING RETAINING WALL
- DH1(S/P) EXISTING DRILLHOLE WITH STANDPIPE/PIEZOMETER
- BS1-1/BT1-1 PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER
- RS174-1/RT174-1 PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER
- IN1-1 PROPOSED INCLINOMETER TO BE INSTALLED IN BORED PILE WALL OR SHEET PILE WALL
- GS1 PROPOSED GROUND SETTLEMENT POINTS
- UT1 PROPOSED UTILITY MONITORING POINTS
- VW1-1 PROPOSED VIBRATION MONITORING POINTS
- ADH1(S/P) PROPOSED ADDITIONAL DRILLHOLE

NOTES:
1. UTILITIES SETTLEMENT POINTS (UT1 TO UT6) SHALL NOT BE INSTALLED IN THE EXCAVATION PERMIT IS REQUIRED AS ALTERNATIVE SETTLEMENT POINTS (GS15 AND GS17) MAY BE INSTALLED.
2. SHEET PILES TO UT1 TO UT6 BE MONITORED, GS15 AND GS17 SHALL NOT BE DESIGNED.
3. THREE UTILITIES SETTLEMENT MARKERS (UT1 TO UT3) AT GROUND SETTLEMENT MARKERS (GS15 AND GS17) SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF OLD BAILEY STREET WORKS.

Cad file : 00-OAP209674-G-001.dwg

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

(Block 8 Foundation)

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating 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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 20-Oct-2013 to 2-Nov-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						
20-Oct-2013						Sunday				
21-Oct-2013		0.15	0.26	0.42						
22-Oct-2013		0.24	0.34	0.33						
23-Oct-2013		0.15	0.25	0.75						
24-Oct-2013		0.31	0.16	0.23						
25-Oct-2013		0.26	0.25	0.35						
26-Oct-2013		0.54	0.95	1.85						
27-Oct-2013						Sunday				
28-Oct-2013		0.26	0.29	0.23						
29-Oct-2013		0.16	0.26	0.56						
30-Oct-2013		0.27	0.26	1.83						
31-Oct-2013		0.18	0.92	0.25						
1-Nov-2013		0.19	0.26	0.21						
2-Nov-2013		0.25	0.15	0.45						

Prepared by : Lo wing yue (Surveyor)

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

(Block 8 Foundation)

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating 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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 3-Nov-2013 to 16-Nov-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						
03-Nov-2013						Sunday				
4-Nov-2013		0.24	0.18	0.22						
5-Nov-2013		2.07	0.17	0.14						
6-Nov-2013		0.88	0.57	0.16						
7-Nov-2013		0.21	0.20	0.25						
8-Nov-2013		0.32	0.25	0.29						
9-Nov-2013		0.15	0.30	0.79						
10-Nov-2013						Sunday				
11-Nov-2013		0.19	0.20	0.16						
12-Nov-2013		0.25	0.31	0.46						
13-Nov-2013		0.14	0.16	0.29						
14-Nov-2013		0.38	0.19	0.14						
15-Nov-2013		0.21	0.20	0.27						
16-Nov-2013		0.13	0.15	0.22						

Prepared by : Lo wing yue (Surveyor)

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

(Block 8 Foundation)

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating 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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 17-Nov-2013 to 30-Nov-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						
17-Nov-2013						Sunday				
18-Nov-2013		1.05	0.14	0.14						
19-Nov-2013		0.55	0.25	0.16						
20-Nov-2013		0.15	0.26	0.36						
21-Nov-2013		0.00	0.00	0.00						
22-Nov-2013		0.00	0.00	0.00						
23-Nov-2013		0.00	0.00	0.00						
24-Nov-2013						Sunday				
25-Nov-2013		0.00	0.00	0.00						
26-Nov-2013		0.00	0.00	0.00						
27-Nov-2013		0.00	0.00	0.00						
28-Nov-2013		0.00	0.00	0.00						
29-Nov-2013		0.00	0.00	0.00						
30-Nov-2013		0.00	0.00	0.00						

Prepared by : Lo wing yue (Surveyor)

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

(Block 8 Foundation)

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating 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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Dec-2013 to 14-Dec-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						
01-Dec-2013						Sunday				
2-Dec-2013		0.00	0.00	0.00						
3-Dec-2013		0.00	0.00	0.00						
4-Dec-2013		0.00	0.00	0.00						
5-Dec-2013		0.00	0.00	0.00						
6-Dec-2013		0.00	0.00	0.00						
7-Dec-2013		0.00	0.00	0.00						
8-Dec-2013						Sunday				
9-Dec-2013		0.00	0.00	0.00						
10-Dec-2013		0.00	0.00	0.00						
11-Dec-2013		0.00	0.00	0.00						
12-Dec-2013		0.00	0.00	0.00						
13-Dec-2013		0.00	0.00	0.00						
14-Dec-2013		0.00	0.00	0.00						

Prepared by : Lo wing yue (Surveyor)

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

(Block 8 Foundation)

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating 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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 15-Dec-2013 to 28-Dec-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						
15-Dec-2013	Sunday									
16-Dec-2013		0.00	0.00	0.00						
17-Dec-2013		0.00	0.00	0.00						
18-Dec-2013		0.00	0.00	0.00						
19-Dec-2013		0.00	0.00	0.00						
20-Dec-2013		0.00	0.00	0.00						
21-Dec-2013		0.00	0.00	0.00						
22-Dec-2013	Sunday									
23-Dec-2013		0.00	0.00	0.00						
24-Dec-2013		0.00	0.00	0.00						
25-Dec-2013	Public Holiday									
26-Dec-2013	Public Holiday									
27-Dec-2013		0.00	0.00	0.00						
28-Dec-2013		0.00	0.00	0.00						

Prepared by : Lo wing yue (Surveyor)

(Block 8 Foundation)

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating 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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 29-Dec-2013 to 11-Jan-2014

POINT		VM8-1	VM11-1#	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
19-Jun-2012 (Initial)		0.56	0.13	0.19						
29-Dec-2013	Sunday									
30-Dec-2013		0.00	0.00	0.00						
31-Dec-2013		0.00	0.00	0.00						
01-Jan-2014	Public Holiday									
02-Jan-2014		0.00	0.00	0.00						
03-Jan-2014		0.00	0.00	0.00						
04-Jan-2014		0.00	0.00	0.00						
05-Jan-2014	Sunday									
06-Jan-2014		0.00	0.00	0.00						
07-Jan-2014		0.00	0.00	0.00						
08-Jan-2014		0.00	0.00	0.00						
09-Jan-2014		0.00	0.00	0.00						
10-Jan-2014		0.00	0.00	0.00						
11-Jan-2014		0.00	0.00	0.00						

(Block 8 Foundation)

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating 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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 12-Jan-2014 to 25-Jan-2014

POINT		VM8-1	VM11-1#	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
19-Jun-2012 (Initial)		0.56	0.13	0.19						
12-Jan-2014						Sunday				
13-Jan-2014		0.00	0.00	0.00						
14-Jan-2014		0.00	0.00	0.00						
15-Jan-2014		0.00	0.00	0.00						
16-Jan-2014		0.00	0.00	0.00						
17-Jan-2014		0.00	0.00	0.00						
18-Jan-2014		0.00	0.00	0.00						
19-Jan-2014						Sunday				
20-Jan-2014		0.00	0.00	0.00						
21-Jan-2014		0.00	0.00	0.00						
22-Jan-2014		0.51	0.18	0.15						
23-Jan-2014		0.44	0.15	0.20						
24-Jan-2014		0.43	0.21	0.18						
25-Jan-2014		0.48	0.23	0.17						

Prepared by : Lo wing yue (Surveyor)

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

(Block 8 Foundation)

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating 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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 26-Jan-2014 to 8-Feb-2014

POINT		VM8-1	VM11-1#	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
19-Jun-2012 (Initial)		0.56	0.13	0.19						
26-Jan-2014	Sunday									
27-Jan-2014		0.46	0.28	0.15						
28-Jan-2014		0.44	0.31	0.16						
29-Jan-2014		0.43	0.35	0.19						
30-Jan-2014	Holiday									
31-Jan-2014	Public Holiday									
1-Feb-2014	Public Holiday									
2-Feb-2014	Sunday									
3-Feb-2014	Public Holiday									
4-Feb-2014		0.42	0.32	0.18						
5-Feb-2014		0.43	0.34	0.19						
6-Feb-2014										
7-Feb-2014										
8-Feb-2014										

Prepared by : Lo wing yue (Surveyor)

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating 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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 2-Feb-2014 to 15-Feb-2014

POINT		VM8-1	VM11-1#	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
19-Jun-2012 (Initial)		0.56	0.13	0.19						
2-Feb-2014	Sunday									
3-Feb-2014	Public Holiday									
4-Feb-2014	Site Closed									
5-Feb-2014	Site Closed									
6-Feb-2014		0.410	0.106	0.153						
7-Feb-2014		0.380	0.209	0.242						
8-Feb-2014		0.370	0.131	0.145						
9-Feb-2014	Sunday									
10-Feb-2014		0.430	0.727	0.616						
11-Feb-2014		0.410	0.572	0.642						
12-Feb-2014		0.400	0.328	0.414						
13-Feb-2014		0.430	0.172	0.093						
14-Feb-2014		0.450	0.175	0.302						
15-Feb-2014		0.470	0.204	0.157						

Prepared by : Lo wing yue (Surveyor)

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating 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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 16-Feb-2014 to 1-Mar-2014

POINT		VM8-1	VM11-1#	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
19-Jun-2012 (Initial)		0.56	0.13	0.19						
16-Feb-2014						Sunday				
17-Feb-2014		**0.460**	**0.091**	**0.164**						
18-Feb-2014		**0.450**	**0.108**	**0.091**						
19-Feb-2014		**0.450**	**0.145**	**0.086**						
20-Feb-2014		**0.500**	**0.352**	**0.597**						
21-Feb-2014		**0.510**	**0.131**	**0.209**						
22-Feb-2014		**0.470**	**0.125**	**0.105**						
23-Feb-2014						Sunday				
24-Feb-2014		**0.480**	**0.261**	**0.320**						
25-Feb-2014		**0.520**	**0.087**	**0.143**						
26-Feb-2014		**0.570**	**0.119**	**0.091**						
27-Feb-2014		**0.590**	**0.207**	**0.086**						
28-Feb-2014		**0.520**	**0.144**	**0.343**						
1-Mar-2014		**0.610**	**0.116**	**0.233**						

Prepared by : Lo wing yue (Surveyor)

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating 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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 2-Mar-2014 to 15-Mar-2014

POINT		VM8-1	VM11-1#	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
19-Jun-2012 (Initial)		0.56	0.13	0.19						
2-Mar-2014						Sunday				
3-Mar-2014		**0.460**	**0.108**	**0.113**						
4-Mar-2014		**0.450**	**0.106**	**0.119**						
5-Mar-2014		**0.450**	**0.108**	**0.191**						
6-Mar-2014		**0.500**	**0.164**	**0.191**						
7-Mar-2014		**0.510**	**0.158**	**0.151**						
8-Mar-2014		**0.470**	**0.135**	**0.128**						
9-Mar-2014						Sunday				
10-Mar-2014		**0.480**	**0.243**	**0.501**						
11-Mar-2014		**0.520**	**0.162**	**0.138**						
12-Mar-2014		**0.570**	**0.607**	**0.530**						
13-Mar-2014		**0.590**	**0.086**	**0.102**						
14-Mar-2014		**0.520**	**0.351**	**0.232**						
15-Mar-2014		**0.610**	**0.195**	**0.210**						

Prepared by : Lo wing yue (Surveyor)

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating 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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 16-Mar-2014 to 29-Mar-2014

POINT		VM8-1	VM11-1#	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
19-Jun-2012 (Initial)		0.56	0.13	0.19						
16-Mar-2014						Sunday				
17-Mar-2014		**0.710**	**0.392**	**0.436**						
18-Mar-2014		**0.740**	**0.216**	**0.211**						
19-Mar-2014		**0.750**	**0.095**	**0.093**						
20-Mar-2014		**0.760**	**0.316**	**0.122**						
21-Mar-2014		**0.730**	**0.550**	**0.125**						
22-Mar-2014		**0.740**	**0.156**	**0.106**						
23-Mar-2014						Sunday				
24-Mar-2014		**0.770**	**0.251**	**0.324**						
25-Mar-2014		**0.850**	**0.302**	**0.139**						
26-Mar-2014		**0.820**	**0.240**	**0.907**						
27-Mar-2014		**0.840**	**0.217**	**0.095**						
28-Mar-2014		**0.850**	**0.185**	**0.137**						
29-Mar-2014		**0.810**	**0.087**	**0.145**						
30-Mar-2014						Sunday				
31-Mar-2014		**0.820**	**0.146**	**0.086**						

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating 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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Apr-2014 to 30-Apr-2014

POINT		VM8-1	VM11-1#	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
19-Jun-2012 (Initial)		0.56	0.13	0.19						
1-Apr-2014		0.83	0.51	0.36						
2-Apr-2014		0.84	0.50	0.35						
3-Apr-2014		0.83	0.52	0.34						
4-Apr-2014		0.82	0.50	0.33						
5-Apr-2014	Holiday									
6-Apr-2014	Sunday									
7-Apr-2014		0.76	0.52	0.52						
8-Apr-2014		0.75	0.52	0.50						
9-Apr-2014		0.75	0.51	0.52						
10-Apr-2014		0.74	0.49	0.51						
11-Apr-2014		0.73	0.47	0.47						
12-Apr-2014		0.72	0.48	0.49						
13-Apr-2014	Sunday									
14-Apr-2014		0.73	0.46	0.48						
15-Apr-2014		0.72	0.44	0.47						
16-Apr-2014		0.70	0.43	0.46						
17-Apr-2014		0.75	0.48	0.48						
18-Apr-2014	Holiday									
19-Apr-2014	Holiday									
20-Apr-2014	Sunday									
21-Apr-2014	Holiday									
22-Apr-2014		0.74	0.50	0.51						
23-Apr-2014		0.75	0.51	0.52						
24-Apr-2014		0.73	0.50	0.53						
25-Apr-2014		0.76	0.53	0.54						
26-Apr-2014		0.72	0.56	0.52						
27-Apr-2014	Sunday									
28-Apr-2014		0.74	0.54	0.53						
29-Apr-2014		0.75	0.52	0.51						
30-Apr-2014		0.73	0.51	0.50						

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating 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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-May-2014 to 31-May-2014

POINT		VM8-1	VM11-1#	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
19-Jun-2012 (Initial)		0.56	0.13	0.19						
1-May-2014						Holiday				
2-May-2014		0.72	0.50	0.48						
3-May-2014		0.71	0.48	0.49						
4-May-2014						Sunday				
5-May-2014		0.83	0.52	0.34						
6-May-2014						Holiday				
7-May-2014		0.75	0.49	0.55						
8-May-2014		0.74	0.46	0.54						
9-May-2014		0.77	0.47	0.53						
10-May-2014		0.76	0.49	0.51						
11-May-2014						Sunday				
12-May-2014		0.75	0.48	0.52						
13-May-2014		0.74	0.46	0.53						
14-May-2014		0.73	0.47	0.51						
15-May-2014		0.78	0.46	0.50						
16-May-2014		0.76	0.45	0.49						
17-May-2014		0.75	0.43	0.42						
18-May-2014						Sunday				
19-May-2014		0.77	0.44	0.48						
20-May-2014		0.75	0.46	0.47						
21-May-2014		0.76	0.45	0.46						
22-May-2014		0.74	0.47	0.47						
23-May-2014		0.75	0.43	0.45						
24-May-2014		0.73	0.40	0.43						
25-May-2014						Sunday				
26-May-2014		0.73	0.38	0.43						
27-May-2014		0.74	0.37	0.41						
28-May-2014		0.75	0.36	0.43						
29-May-2014		0.72	0.38	0.42						
30-May-2014		0.73	0.36	0.40						

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating 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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jun-2014 to 30-Jun-2014

POINT		VM8-1	VM11-1#	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
19-Jun-2012 (Initial)		0.56	0.13	0.19						
1-Jun-2014						Sunday				
2-Jun-2014						Holiday				
3-Jun-2014		0.75	0.286	0.174						
4-Jun-2014		0.76	0.223	0.351						
5-Jun-2014		0.71	0.612	0.179						
6-Jun-2014		0.70	0.143	0.120						
7-Jun-2014		0.69	0.150	0.162						
8-Jun-2014						Sunday				
9-Jun-2014		0.67	0.239	0.209						
10-Jun-2014		0.65	0.098	0.209						
11-Jun-2014		0.64	0.139	0.112						
12-Jun-2014		0.66	0.095	0.102						
13-Jun-2014		0.63	0.221	0.271						
14-Jun-2014		0.62	0.097	0.097						
15-Jun-2014						Sunday				
16-Jun-2014		0.64	0.303	0.108						
17-Jun-2014		0.63	0.291	0.100						
18-Jun-2014		0.61	0.113	0.194						
19-Jun-2014		0.62	0.231	0.428						
20-Jun-2014		0.59	0.335	0.201						
21-Jun-2014		0.58	0.167	0.282						
22-Jun-2014						Sunday				
23-Jun-2014		0.57	0.213	0.259						
24-Jun-2014		0.59	0.135	0.145						
25-Jun-2014		0.58	0.361	0.285						
26-Jun-2014		0.56	0.199	0.206						
27-Jun-2014		0.54	0.385	0.165						
28-Jun-2014		0.51	0.183	0.232						
29-Jun-2014						Sunday				
30-Jun-2014		0.55	0.394	0.521						

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating 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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jul-2014 to 31-Jul-2014

POINT		VM8-1	VM11-1#	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
19-Jun-2012 (Initial)		0.56	0.13	0.19						
1-Jul-2014						Holiday				
2-Jul-2014		0.51	0.31	0.26						
3-Jul-2014		0.45	0.30	0.22						
4-Jul-2014		0.56	0.32	0.25						
5-Jul-2014		0.50	0.35	0.29						
6-Jul-2014						Sunday				
7-Jul-2014		0.55	0.31	0.27						
8-Jul-2014		0.54	0.33	0.28						
9-Jul-2014		0.53	0.32	0.27						
10-Jul-2014		0.52	0.33	0.29						
11-Jul-2014		0.60	0.38	0.32						
12-Jul-2014		0.66	0.36	0.35						
13-Jul-2014						Sunday				
14-Jul-2014		0.55	0.31	0.27						
15-Jul-2014		0.55	0.31	0.27						
16-Jul-2014		0.16	0.18	0.16						
17-Jul-2014		0.60	0.12	0.25						
18-Jul-2014		0.36	0.46	0.17						
19-Jul-2014		0.13	0.33	0.46						
20-Jul-2014						Sunday				
21-Jul-2014		0.08	0.09	0.31						
22-Jul-2014		0.07	0.09	0.08						
23-Jul-2014		0.06	0.08	0.17						
24-Jul-2014		0.09	0.41	0.10						
25-Jul-2014		0.10	0.13	0.37						
26-Jul-2014		0.54	0.16	0.17						
27-Jul-2014						Sunday				
28-Jul-2014		0.16	0.52	0.27						
29-Jul-2014		0.09	0.26	0.08						
30-Jul-2014		0.55	0.40	0.15						
31-Jul-2014		0.13	0.25	0.11						

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating 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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Aug-2014 to 31-Aug-2014

POINT		VM8-1	VM11-1#	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
19-Jun-2012 (Initial)		0.56	0.13	0.19						
1-Aug-2014		0.23	0.14	0.46						
2-Aug-2014		0.15	0.35	0.14						
3-Aug-2014						Sunday				
4-Aug-2014		0.17	0.14	0.49						
5-Aug-2014		0.32	0.31	0.16						
6-Aug-2014		0.37	0.13	0.38						
7-Aug-2014		0.20	0.29	0.08						
8-Aug-2014		0.16	0.19	0.14						
9-Aug-2014		0.36	0.55	0.22						
10-Aug-2014						Sunday				
11-Aug-2014		0.35	0.17	0.30						
12-Aug-2014		0.22	0.27	0.20						
13-Aug-2014		0.11	0.39	0.14						
14-Aug-2014		0.40	0.15	0.09						
15-Aug-2014		0.11	0.37	0.19						
16-Aug-2014		0.10	0.28	0.16						
17-Aug-2014						Sunday				
18-Aug-2014		0.52	0.15	0.17						
19-Aug-2014		0.22	0.39	0.20						
20-Aug-2014		0.49	0.20	0.11						
21-Aug-2014		0.20	0.28	0.08						
22-Aug-2014		0.22	0.19	0.08						
23-Aug-2014		0.34	0.24	0.16						
24-Aug-2014						Sunday				
25-Aug-2014		0.20	0.21	0.07						
26-Aug-2014		0.23	0.20	0.08						
27-Aug-2014		0.18	0.17	0.14						
28-Aug-2014		0.16	0.20	0.20						
29-Aug-2014		0.37	0.35	0.17						
30-Aug-2014		0.12	0.27	0.12						
31-Aug-2014						Sunday				

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating 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

Project Title: Central Police Station Conservation & Revitalization | Project No: WP201 | 1-Sep-2014 to 30-Sep-2014

POINT		VM8-1	VM11-1#	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
19-Jun-2012 (Initial)		0.56	0.13	0.19						
1-Sep-2014		0.20	0.16	0.35						
2-Sep-2014		0.29	0.20	0.13						
3-Sep-2014		0.14	0.39	0.12						
4-Sep-2014		0.23	0.19	0.10						
5-Sep-2014		0.20	0.26	0.18						
6-Sep-2014		0.62	0.19	0.12						
7-Sep-2014						Sunday				
8-Sep-2014		0.20	0.20	0.08						
9-Sep-2014						Holiday				
10-Sep-2014		0.38	0.11	0.20						
11-Sep-2014		0.23	0.20	0.11						
12-Sep-2014		0.36	0.43	0.10						
13-Sep-2014		0.19	0.28	0.13						
14-Sep-2014						Sunday				
15-Sep-2014		0.36	0.43	0.13						
16-Sep-2014		0.12	0.12	0.09						
17-Sep-2014		0.13	0.33	0.14						
18-Sep-2014		0.22	0.27	0.20						
19-Sep-2014		0.34	0.24	0.16						
20-Sep-2014		0.29	0.15	0.12						
21-Sep-2014						Sunday				
22-Sep-2014		0.18	0.17	0.22						
23-Sep-2014		0.15	0.14	0.17						
24-Sep-2014		0.13	0.33	0.16						
25-Sep-2014		0.16	0.28	0.16						
26-Sep-2014		0.16	0.41	0.10						
27-Sep-2014		0.37	0.35	0.08						
28-Sep-2014						Sunday				
29-Sep-2014		0.29	0.22	0.17						
30-Sep-2014		0.32	0.31	0.16						

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating 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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Oct-2014 to 30-Oct-2014

POINT		VM8-1	VM11-1#	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
19-Jun-2012 (Initial)		0.56	0.13	0.19						
1-Oct-2014						Holiday				
2-Oct-2014						Holiday				
3-Oct-2014		0.29	0.24	0.13						
4-Oct-2014		0.36	0.21	0.10						
5-Oct-2014						Sunday				
6-Oct-2014		0.26	0.19	0.11						
7-Oct-2014		0.55	0.40	0.26						
8-Oct-2014		0.31	0.25	0.11						
9-Oct-2014		0.36	0.46	0.17						
10-Oct-2014		0.13	0.33	0.36						
11-Oct-2014		0.42	0.16	0.17						
12-Oct-2014						Sunday				
13-Oct-2014		0.16	0.52	0.27						
14-Oct-2014		0.30	0.22	0.13						
15-Oct-2014		0.54	0.16	0.11						
16-Oct-2014		0.31	0.26	0.13						
17-Oct-2014		0.29	0.11	0.17						
18-Oct-2014		0.12	0.18	0.09						
19-Oct-2014						Sunday				
20-Oct-2014		0.34	0.19	0.22						
21-Oct-2014		0.19	0.13	0.20						
22-Oct-2014		0.27	0.14	0.10						
23-Oct-2014		0.22	0.19	0.15						
24-Oct-2014		0.47	0.20	0.16						
25-Oct-2014		0.44	0.17	0.19						
26-Oct-2014						Sunday				
27-Oct-2014		0.13	0.17	0.19						
28-Oct-2014		0.19	0.36	0.15						
29-Oct-2014		0.17	0.13	0.19						
30-Oct-2014		0.35	0.13	0.10						
31-Oct-2014		0.17	0.17	0.12						

Mini-piles with post-pressurized grout in CDG and Steel Shear H-piles at Block 17


WYNDHAM STREET
ARBUTHNOT ROAD
OLD BAILEY STREET
Central Police Station
Victoria Prison
The Centrium
11SW-B/R17
11SW-B/R18
11SW-B/R22
11SW-B/R805
11SW-B/R806
11SW-B/R23
11SW-B/R24
11SW-B/R52
11SW-B/R53
11SW-B/R19
11SW-B/R174
11SW-B/R175
11SW-B/R176
11SW-B/R177
11SW-B/R55
11SW-B/R54
11SW-B/R178
VM17-1
VM17-3
MONITORING ZONE A
LEGEND
EXISTING FRESH WATER MAIN
EXISTING SALT WATER MAIN
EXISTING STREET LIGHTING NO. 33488-A1
EXISTING STREET LIGHTING CABLE
EXISTING GAS MAIN
EXISTING HV ELECTRICITY CABLE
EXISTING LV ELECTRICITY CABLE
EXISTING TELECOMMUNICATION DUCT (HUTCHISON GLOBAL COMMUNICATIONS LIMITED)
EXISTING STORMWATER DRAIN
EXISTING FOUL SEWER
PROPOSED FOUL SEWER
SITE BOUNDARY
EXISTING RETAINING WALL
DH1(S,P) EXISTING DRILLHOLE WITH STANDPIPE/PIEZOMETER
BS1-1/BT1-1 PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER
RS174-1/RT174-1 PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER
IN1-1 PROPOSED INCLINOMETER TO BE BUILT IN BORED PILE WALL OR PIPE PILE WALL
GS1 PROPOSED GROUND SETTLEMENT POINTS
UT1 PROPOSED UTILITY MONITORING POINTS
VM1-1 PROPOSED VIBRATION MONITORING POINTS
ADH1(S/P) PROPOSED ADDITIONAL DRILLHOLE
NOTES:
1. UTILTIES SETTLEMENT POINTS (UT1 TO UT6) SHALL ONLY BE INSTALLED AFTER EXCAVATION PERMIT IS OBTAINED. AS ALTERNATIVE SETTLEMENT POINTS (GS18 AND GS19) MAY BE INSTALLED.
2. SHOULD UT1 TO UT6 BE INSTALLED, GS18 AND GS19 SHALL NOT BE REQUIRED.
3. EITHER UTILITIES SETTLEMENT MARKERS (UT1 TO UT6) OR GROUND SETTLEMENT MARKETS (GS18 AND GS19) SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF OLD BAILEY WING ELS WORKS.

3/3053/11(BLK17&50) (HU) (S)

No.	Description	Date	Approved
–	BD SUBMISSION	12/11	JS
A	BD SUBMISSION	03/12	JS
B	BD SUBMISSION	03/12	JS

Plan Approved
NG Kin-shing
Chief Structural Engineer
for BUILDING AUTHORITY
19 MAR 2012

Key Plan

BD SUBMISSION
Drawing Status

Client
The Jockey Club CPS Limited

Design Consultant
HERZOG & DE MEURON

Conservation Architect

Executive Architect / AP
ROCCO

Structural Engineer / RSE
ARUP

E & M Engineer
JRP

Project
CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT

Drawing Title
MONITORING LAYOUT PLAN

Scale	Drawn	Checked
1:300@A1	K.C.Lai	AL

Drawing No. 00-OAP209674-G-001 Revision B

Cad file : 00-OAP209674-G-001.dwg

(Block 17 Foundation Works)

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

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 27-Oct-2013 to 9-Nov-2013

POINT		VM17-1	VM17-3 #							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 (Initial)		**0.13**	**0.37**							
Surveying Date										
27-Oct-2013						Sunday				
28-Oct-2013		0.30	0.41							
29-Oct-2013		0.39	0.32							
30-Oct-2013		0.23	0.22							
31-Oct-2013		0.18	0.25							
1-Nov-2013		0.48	0.37							
2-Nov-2013		0.86	0.25							
3-Nov-2013						Sunday				
4-Nov-2013		0.28	0.66							
5-Nov-2013		0.54	0.38							
6-Nov-2013		1.12	0.29							
7-Nov-2013		0.18	0.16							
8-Nov-2013		0.14	0.26							
9-Nov-2013		0.63	0.15							
Remark										

Prepared by :Lo wing yue (Surveyor)

(Block 17 Foundation Works)

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

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 10-Nov-2013 to 23-Nov-2013

POINT		VM17-1	VM17-3 #							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 (Initial)		**0.13**	**0.37**							
Surveying Date										
10-Nov-2013						Sunday				
11-Nov-2013		0.13	0.16							
12-Nov-2013		0.14	0.26							
13-Nov-2013		0.18	0.21							
14-Nov-2013		0.24	0.15							
15-Nov-2013		0.35	0.19							
16-Nov-2013		0.26	0.20							
17-Nov-2013						Sunday				
18-Nov-2013		0.27	0.32							
19-Nov-2013		0.73	0.25							
20-Nov-2013		0.25	0.46							
21-Nov-2013		0.00	0.00							
22-Nov-2013		0.00	0.00							
23-Nov-2013		0.00	0.00							
Remark										

Prepared by :Lo wing yue (Surveyor)

(Block 17 Foundation Works)

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

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 24-Nov-2013 to 7-Dec-2013

POINT		VM17-1	VM17-3 #							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 (Initial)		**0.13**	**0.37**							
Surveying Date										
24-Nov-2013						Sunday				
25-Nov-2013		0.00	0.00							
26-Nov-2013		0.00	0.00							
27-Nov-2013		0.00	0.00							
28-Nov-2013		0.00	0.00							
29-Nov-2013		0.00	0.00							
30-Nov-2013		0.00	0.00							
1-Dec-2013						Sunday				
2-Dec-2013		0.00	0.00							
3-Dec-2013		0.00	0.00							
4-Dec-2013		0.00	0.00							
5-Dec-2013		0.00	0.00							
6-Dec-2013		0.00	0.00							
7-Dec-2013		0.00	0.00							
Remark										

Prepared by :Lo wing yue (Surveyor)

(Block 17 Foundation Works)

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

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 8-Dec-2013 to 21-Dec-2013

POINT		VM17-1	VM17-3 #							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 (Initial)		**0.13**	**0.37**							
Surveying Date										
8-Dec-2013						Sunday				
9-Dec-2013		0.00	0.00							
10-Dec-2013		0.00	0.00							
11-Dec-2013		0.00	0.00							
12-Dec-2013		0.00	0.00							
13-Dec-2013		0.00	0.00							
14-Dec-2013		0.00	0.00							
15-Dec-2013						Sunday				
16-Dec-2013		0.00	0.00							
17-Dec-2013		0.00	0.00							
18-Dec-2013		0.00	0.00							
19-Dec-2013		0.00	0.00							
20-Dec-2013		0.00	0.00							
21-Dec-2013		0.00	0.00							
Remark										

Prepared by :Lo wing yue (Surveyor)

(Block 17 Foundation Works)

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

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 22-Dec-2013 to 4-Jan-2014

POINT		VM17-1	VM17-3 #							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 (Initial)		**0.13**	**0.37**							
Surveying Date										
22-Dec-2013	Sunday									
23-Dec-2013		0.00	0.00							
24-Dec-2013		0.00	0.00							
25-Dec-2013	Public Holiday									
26-Dec-2013	Public Holiday									
27-Dec-2013		0.00	0.00							
28-Dec-2013		0.00	0.00							
29-Dec-2013	Sunday									
30-Dec-2013		0.00	0.00							
31-Dec-2013		0.00	0.00							
1-Jan-2014	Public Holiday									
2-Jan-2014		0.00	0.00							
3-Jan-2014		0.00	0.00							
4-Jan-2014		0.00	0.00							
Remark										

Prepared by :Lo wing yue (Surveyor)

(Block 17 Foundation Works)

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

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 5-Jan-2014 to 18-Jan-2014

POINT		VM17-1	VM17-3 #							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 (Initial)		**0.13**	**0.37**							
Surveying Date										
5-Jan-2014						Sunday				
6-Jan-2014		0.00	0.00							
7-Jan-2014		0.00	0.00							
8-Jan-2014		0.00	0.00							
9-Jan-2014		0.00	0.00							
10-Jan-2014		0.00	0.00							
11-Jan-2014		0.00	0.00							
12-Jan-2014						Sunday				
13-Jan-2014		0.00	0.00							
14-Jan-2014		0.00	0.00							
15-Jan-2014		0.00	0.00							
16-Jan-2014		0.00	0.00							
17-Jan-2014		0.00	0.00							
18-Jan-2014		0.00	0.00							
Remark										

Prepared by :Lo wing yue (Surveyor)

(Block 17 Foundation Works)

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

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 19-Jan-2014 to 1-Feb-2014

POINT		VM17-1	VM17-3 #							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 (Initial)		**0.13**	**0.37**							
Surveying Date										
19-Jan-2014	Sunday									
20-Jan-2014		0.00	0.00							
21-Jan-2014		0.00	0.00							
22-Jan-2014		0.15	0.32							
23-Jan-2014		0.28	0.22							
24-Jan-2014		0.25	0.25							
25-Jan-2014		0.21	0.24							
26-Jan-2014	Sunday									
27-Jan-2014		0.24	0.19							
28-Jan-2014		0.22	0.21							
29-Jan-2014		0.26	0.25							
30-Jan-2014	Holiday									
31-Jan-2014	Public Holiday									
1-Feb-2014	Public Holiday									
Remark										

Prepared by :Lo wing yue (Surveyor)

(Block 17 Foundation Works)

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

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 2-Feb-2014 to 15-Feb-2014

POINT		VM17-1	VM17-3 #							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 (Initial)		**0.13**	**0.37**							
Surveying Date										
2-Feb-2014	Sunday									
3-Feb-2014	Public Holiday									
4-Feb-2014	Site Closed									
5-Feb-2014	Site Closed									
6-Feb-2014		0.250	0.240							
7-Feb-2014		0.290	0.220							
8-Feb-2014		0.240	0.210							
9-Feb-2014	Sunday									
10-Feb-2014		0.220	0.210							
11-Feb-2014		0.500	0.460							
12-Feb-2014		0.580	0.530							
13-Feb-2014		0.610	0.500							
14-Feb-2014		0.620	0.560							
15-Feb-2014		0.600	0.540							

Prepared by :Lo wing yue (Surveyor)

(Block 17 Foundation Works)

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

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 16-Feb-2014 to 1-Mar-2014

POINT		VM17-1	VM17-3 #							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 (Initial)		**0.13**	**0.37**							
Surveying Date										
16-Feb-2014						Sunday				
17-Feb-2014		**0.570**	**0.210**							
18-Feb-2014		**0.580**	**0.460**							
19-Feb-2014		**0.620**	**0.530**							
20-Feb-2014		**0.650**	**0.500**							
21-Feb-2014		**0.600**	**0.560**							
22-Feb-2014		**0.620**	**0.540**							
23-Feb-2014						Sunday				
24-Feb-2014		**0.680**	**0.640**							
25-Feb-2014		**0.670**	**0.700**							
26-Feb-2014		**0.650**	**0.740**							
27-Feb-2014		**0.710**	**0.720**							
28-Feb-2014		**0.680**	**0.710**							
1-Mar-2014		**0.700**	**0.720**							

Prepared by :Lo wing yue (Surveyor)

(Block 17 Foundation Works)

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

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 2-Mar-2014 to 15-Mar-2014

POINT		VM17-1	VM17-3 #							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 (Initial)		**0.13**	**0.37**							
Surveying Date										
2-Mar-2014	Sunday									
3-Mar-2014		**0.710**	**0.750**							
4-Mar-2014		**0.660**	**0.740**							
5-Mar-2014		**0.700**	**0.710**							
6-Mar-2014		**0.760**	**0.680**							
7-Mar-2014		**0.770**	**0.700**							
8-Mar-2014		**0.710**	**0.710**							
9-Mar-2014	Sunday									
10-Mar-2014		**0.210**	**0.500**							
11-Mar-2014		**0.250**	**0.510**							
12-Mar-2014		**0.283**	**0.480**							
13-Mar-2014		**0.320**	**0.510**							
14-Mar-2014		**0.280**	**0.510**							
15-Mar-2014		**0.260**	**0.470**							

Prepared by :Lo wing yue (Surveyor)

(Block 17 Foundation Works)

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

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 16-Mar-2014 to 29-Mar-2014

POINT		VM17-1	VM17-3 #							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 (Initial)		**0.13**	**0.37**							
Surveying Date										
16-Mar-2014						Sunday				
17-Mar-2014		**0.300**	**0.490**							
18-Mar-2014		**0.350**	**0.550**							
19-Mar-2014		**0.320**	**0.510**							
20-Mar-2014		**0.390**	**0.480**							
21-Mar-2014		**0.400**	**0.510**							
22-Mar-2014		**0.450**	**0.510**							
23-Mar-2014						Sunday				
24-Mar-2014		**0.280**	**0.650**							
25-Mar-2014		**0.350**	**0.710**							
26-Mar-2014		**0.340**	**0.750**							
27-Mar-2014		**0.360**	**0.720**							
28-Mar-2014		**0.350**	**0.700**							
29-Mar-2014		**0.290**	**0.650**							
30-Mar-2014						Sunday				
31-Mar-2014		**0.380**	**0.720**							

Prepared by :Lo wing yue (Surveyor)

(Block 17 Foundation Works)

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

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Apr-2014 to 30-Apr-2014

POINT		VM17-1	VM17-3 #							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 (Initial)		**0.13**	**0.37**							
Surveying Date										
1-Apr-2014		0.34	0.70							
2-Apr-2014		0.37	0.71							
3-Apr-2014		0.35	0.70							
4-Apr-2014		0.33	0.68							
5-Apr-2014	Holiday									
6-Apr-2014	Sunday									
7-Apr-2014		0.31	0.64							
8-Apr-2014		0.28	0.66							
9-Apr-2014		0.29	0.64							
10-Apr-2014		0.28	0.61							
11-Apr-2014		0.19	0.50							
12-Apr-2014		0.15	0.47							
13-Apr-2014	Sunday									
14-Apr-2014		0.13	0.42							
15-Apr-2014		0.15	0.45							
16-Apr-2014		0.16	0.43							
17-Apr-2014		0.14	0.44							
18-Apr-2014	Holiday									
19-Apr-2014	Holiday									
20-Apr-2014	Sunday									
21-Apr-2014	Holiday									
22-Apr-2014		0.28	0.65							
23-Apr-2014		0.31	0.64							
24-Apr-2014		0.30	0.68							
25-Apr-2014		0.29	0.67							
26-Apr-2014		0.31	0.65							
27-Apr-2014	Sunday									
28-Apr-2014		0.30	0.64							
29-Apr-2014		0.27	0.61							
30-Apr-2014		0.28	0.56							

(Block 17 Foundation Works)

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

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-May-2014 to 31-May-2014

POINT		VM17-1	VM17-3 #							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 (Initial)		**0.13**	**0.37**							
Surveying Date										
1-May-2014						Holiday				
2-May-2014		0.26	0.59							
3-May-2014		0.25	0.57							
4-May-2014						Sunday				
5-May-2014		0.30	0.66							
6-May-2014						Holiday				
7-May-2014		0.29	0.65							
8-May-2014		0.31	0.67							
9-May-2014		0.30	0.68							
10-May-2014		0.28	0.64							
11-May-2014						Sunday				
12-May-2014		0.29	0.68							
13-May-2014		0.30	0.65							
14-May-2014		0.31	0.66							
15-May-2014		0.30	0.67							
16-May-2014		0.38	0.65							
17-May-2014		0.36	0.64							
18-May-2014						Sunday				
19-May-2014		0.32	0.64							
20-May-2014		0.35	0.63							
21-May-2014		0.31	0.64							
22-May-2014		0.28	0.62							
23-May-2014		0.30	0.62							
24-May-2014		0.29	0.61							
25-May-2014						Sunday				
26-May-2014		0.33	0.60							
27-May-2014		0.31	0.59							
28-May-2014		0.30	0.61							
29-May-2014		0.29	0.62							
30-May-2014		0.28	0.59							

(Block 17 Foundation Works)

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

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jun-2014 to 30-Jun-2014

POINT		VM17-1	VM17-3 #							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 (Initial)		**0.13**	**0.37**							
Surveying Date										
1-Jun-2014	Sunday									
2-Jun-2014	Holiday									
3-Jun-2014		0.35	0.62							
4-Jun-2014		0.31	0.63							
5-Jun-2014		0.29	0.61							
6-Jun-2014		0.29	0.62							
7-Jun-2014		0.27	0.60							
8-Jun-2014	Sunday									
9-Jun-2014		0.26	0.60							
10-Jun-2014		0.28	0.61							
11-Jun-2014		0.30	0.59							
12-Jun-2014		0.29	0.58							
13-Jun-2014		0.27	0.60							
14-Jun-2014		0.26	0.58							
15-Jun-2014	Sunday									
16-Jun-2014		0.25	0.59							
17-Jun-2014		0.24	0.55							
18-Jun-2014		0.25	0.58							
19-Jun-2014		0.24	0.56							
20-Jun-2014		0.21	0.54							
21-Jun-2014		0.22	0.53							
22-Jun-2014	Sunday									
23-Jun-2014		0.21	0.53							
24-Jun-2014		0.22	0.52							
25-Jun-2014		0.20	0.50							
26-Jun-2014		0.18	0.48							
27-Jun-2014		0.19	0.47							
28-Jun-2014		0.21	0.45							
29-Jun-2014	Sunday									
30-Jun-2014		0.19	0.41							

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

(Block 17 Foundation Works)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jul-2014 to 30-Jul-2014

POINT		VM17-1	VM17-3 #							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 (Initial)		**0.13**	**0.37**							
Surveying Date										
1-Jul-2014						Sunday				
2-Jul-2014		0.24	0.42							
3-Jul-2014		0.28	0.46							
4-Jul-2014		0.33	0.44							
5-Jul-2014		0.25	0.49							
6-Jul-2014						Sunday				
7-Jul-2014		0.20	0.48							
8-Jul-2014		0.31	0.41							
9-Jul-2014		0.25	0.45							
10-Jul-2014		0.26	0.49							
11-Jul-2014		0.30	0.59							
12-Jul-2014		0.20	0.53							
13-Jul-2014						Sunday				
14-Jul-2014		0.19	0.41							
15-Jul-2014		0.19	0.41							
16-Jul-2014		0.17	0.15							
17-Jul-2014		0.16	0.15							
18-Jul-2014		0.36	0.34							
19-Jul-2014		0.25	0.35							
20-Jul-2014						Sunday				
21-Jul-2014		0.76	0.21							
22-Jul-2014		0.18	0.10							
23-Jul-2014		0.11	0.07							
24-Jul-2014		0.25	0.33							
25-Jul-2014		0.15	0.14							
26-Jul-2014		0.18	0.17							
27-Jul-2014						Sunday				
28-Jul-2014		0.20	0.17							
29-Jul-2014		0.08	0.08							
30-Jul-2014		0.06	0.30							
31-Jul-2014		0.06	0.65							

(Block 17 Foundation Works)

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

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Aug-2014 to 30-Aug-2014

POINT		VM17-1	VM17-3 #							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 (Initial)		**0.13**	**0.37**							
Surveying Date										
1-Aug-2014		0.17	0.50							
2-Aug-2014		0.20	0.19							
3-Aug-2014						Sunday				
4-Aug-2014		0.17	0.20							
5-Aug-2014		0.37	0.23							
6-Aug-2014		0.16	0.17							
7-Aug-2014		0.12	0.18							
8-Aug-2014		0.38	0.13							
9-Aug-2014		0.21	0.10							
10-Aug-2014						Sunday				
11-Aug-2014		0.19	0.20							
12-Aug-2014		0.62	0.15							
13-Aug-2014		0.17	0.09							
14-Aug-2014		0.08	0.12							
15-Aug-2014		0.19	0.19							
16-Aug-2014		0.08	0.10							
17-Aug-2014						Sunday				
18-Aug-2014		0.17	0.24							
19-Aug-2014		0.10	0.11							
20-Aug-2014		0.11	0.10							
21-Aug-2014		0.22	0.08							
22-Aug-2014		0.18	0.14							
23-Aug-2014		0.17	0.07							
24-Aug-2014						Sunday				
25-Aug-2014		0.40	0.17							
26-Aug-2014		0.32	0.12							
27-Aug-2014		0.37	0.21							
28-Aug-2014		0.21	0.18							
29-Aug-2014		0.12	0.14							
30-Aug-2014		0.18	0.20							
31-Aug-2014						Sunday				

(Block 17 Foundation Works)

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

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Sep-2014 to 30-Sep-2014

POINT		VM17-1	VM17-3 #							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 (Initial)		**0.13**	**0.37**							
Surveying Date										
1-Sep-2014		0.53	0.07							
2-Sep-2014		0.18	0.11							
3-Sep-2014		0.14	0.10							
4-Sep-2014		0.17	0.14							
5-Sep-2014		0.40	0.22							
6-Sep-2014		0.21	0.11							
7-Sep-2014						Sunday				
8-Sep-2014		0.20	0.08							
9-Sep-2014						Holiday				
10-Sep-2014		0.13	0.12							
11-Sep-2014		0.20	0.14							
12-Sep-2014		0.16	0.17							
13-Sep-2014		0.21	0.11							
14-Sep-2014						Sunday				
15-Sep-2014		0.18	0.12							
16-Sep-2014		0.13	0.08							
17-Sep-2014		0.10	0.08							
18-Sep-2014		0.08	0.15							
19-Sep-2014		0.17	0.07							
20-Sep-2014		0.12	0.14							
21-Sep-2014						Sunday				
22-Sep-2014		0.16	0.12							
23-Sep-2014		0.21	0.19							
24-Sep-2014		0.15	0.87							
25-Sep-2014		0.17	0.10							
26-Sep-2014		0.13	0.09							
27-Sep-2014		0.18	0.10							
28-Sep-2014						Sunday				
29-Sep-2014		0.17	0.77							
30-Sep-2014		0.18	0.13							

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

(Block 17 Foundation Works)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Oct-2014 to 30-Oct-2014

POINT		VM17-1	VM17-3 #							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 (Initial)		**0.13**	**0.37**							
Surveying Date										
1-Oct-2014						Holiday				
2-Oct-2014						Holiday				
3-Oct-2014		0.11	0.11							
4-Oct-2014		0.15	0.09							
5-Oct-2014						Sunday				
6-Oct-2014		0.12	0.10							
7-Oct-2014		0.19	0.10							
8-Oct-2014		0.15	0.07							
9-Oct-2014		0.26	0.24							
10-Oct-2014		0.15	0.14							
11-Oct-2014		0.18	0.17							
12-Oct-2014						Sunday				
13-Oct-2014		0.20	0.08							
14-Oct-2014		0.15	0.10							
15-Oct-2014		0.11	0.09							
16-Oct-2014		0.36	0.12							
17-Oct-2014		0.14	0.07							
18-Oct-2014		0.10	0.10							
19-Oct-2014						Sunday				
20-Oct-2014		0.15	0.10							
21-Oct-2014		0.11	0.08							
22-Oct-2014		0.10	0.10							
23-Oct-2014		0.12	0.09							
24-Oct-2014		0.12	0.18							
25-Oct-2014		0.11	0.08							
26-Oct-2014						Sunday				
27-Oct-2014		0.16	0.08							
28-Oct-2014		0.10	0.08							
29-Oct-2014		0.09	0.09							
30-Oct-2014		0.10	0.11							
31-Oct-2014		0.13	0.07							

Bored Pile Walls / Pipe Pile Walls at Block 50

WYNDHAM STREET
ARBUTHNOT ROAD
HOLLYWOOD ROAD
OLD BAILEY STREET
CHANCERY LANE
EZRA'S LANE
Central Police Station
Victoria Prison
The Centrium
Chinachem Hollywood Centre
Garfield Commercial Building
Chancery House
Chancery Mansion
Cambridge Villa
Tung Yuen Building
H.K. 26 Court
Hollywood Commercial House
Winning House
Ho Fook Building
Wing Lee Building
Villa Serene
Shiu King Court
New India House
Ovolo
Au's Building
Podium
UNDERGROUND TUNNEL
MONITORING ZONE A
EXTENT OF G&W EXCAVATION
11SW-B/R17
11SW-B/R18
11SW-B/R22
11SW-B/R805
11SW-B/R806
11SW-B/R23
11SW-B/R24
11SW-B/R52
11SW-B/R53
11SW-B/R19
11SW-B/R174
11SW-B/R175
11SW-B/R176
11SW-B/R177
11SW-B/R55
11SW-B/R54
11SW-B/R178
KWAN KIN KEI
LEGEND
EXISTING FRESH WATER MAIN
EXISTING SALT WATER MAIN
EXISTING STREET LIGHTING NO. 33488-A1
EXISTING STREET LIGHTING CABLE
EXISTING GAS MAIN
EXISTING HV ELECTRICITY CABLE
EXISTING LV ELECTRICITY CABLE
EXISTING TELECOMMUNICATION DUCT (HUTCHISON GLOBAL COMMUNICATIONS LIMITED)
EXISTING STORMWATER DRAIN
EXISTING FOUL SEWER
PROPOSED FOUL SEWER
SITE BOUNDARY
EXISTING RETAINING WALL
DH1(S,P) EXISTING DRILLHOLE WITH STANDPIPE/PIEZOMETER
BS1-1/BT1-1 PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER
RS174-1/RT174-1 PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER
IN1-1 PROPOSED INCLINOMETER TO BE BUILT IN BORED PILE OR PIPE PILE WALL
GS1 PROPOSED GROUND SETTLEMENT POINTS
UT1 PROPOSED UTILITY MONITORING POINTS
VM1-1 PROPOSED VIBRATION MONITORING POINTS
ADH1(S/P) PROPOSED ADDITIONAL DRILLHOLE
NOTES
1. UTILITIES SETTLEMENT POINTS (UT1 TO UT6) SHALL ONLY BE INSTALLED AFTER EXCAVATION PERMIT IS OBTAINED AS ALTERNATIVE SETTLEMENT POINTS (GS18 TO GS19) MAY BE INSTALLED.
2. SHOULD UT1 TO UT6 BE INSTALLED, GS18 AND GS19 SHALL NOT BE REQUIRED.
3. EITHER UTILITIES SETTLEMENT MARKERS (UT1 TO UT6) OR GROUND SETTLEMENT MARKERS (GS18 TO GS19) SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF OLD BAILEY WING ELS WORKS

B.D. Ref. No. 屋宇署檔案編號 3/3053/11 (B1K17&50) (H(C))(S)

F.S.D. Ref. No.

Revision/Submission

No	Description	Date	Approved
-	BD SUBMISSION	12/11	JS

Plan Approved
NG Kin-shing
Chief Structural Engineer
for BUILDING AUTHORITY
20 FEB 2012

Key Plan 索引圖

BD SUBMISSION

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Client 業主
The Jockey Club CPS Limited

Design Consultant
HERZOG & DE MEURON

Conservation Architect
PURCELL MILLER TRITTON

Executive Architect / AP
ROCCO

Structural Engineer / RSE
ARUP

E & M Engineer
JRP

Project 項目
CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT

Drawing Title
MONITORING LAYOUT PLAN

Scale	Drawn	Checked
1:300@A1	K.C.Loi	AL

Drawing No. 00-OAP209674-G-001 Revision -

Cad file : 00-OAP209674-G-001.dwg

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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)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 20-Oct-2013 to 2-Nov-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 (Initial)		**0.56**	**0.13**	**0.19**	**0.22**	**0.13**	**0.21**	**0.13**	**0.13**	**0.37**
Surveying Date										
20-Oct-2013	Sunday									
21-Oct-2013		0.15	0.26	0.42	0.19	0.37	0.52	0.45	0.25	0.12
22-Oct-2013		0.24	0.34	0.33	0.29	0.38	0.13	0.35	0.32	0.26
23-Oct-2013		0.15	0.25	0.75	0.35	0.46	0.25	0.38	0.24	0.34
24-Oct-2013		0.31	0.16	0.23	0.70	0.15	0.16	0.45	0.31	0.19
25-Oct-2013		0.26	0.25	0.35	0.15	0.26	0.48	0.70	0.81	0.25
26-Oct-2013		0.54	0.95	1.85	0.25	0.45	0.98	0.95	0.21	0.27
27-Oct-2013	Sunday									
28-Oct-2013		0.26	0.29	0.23	0.20	0.54	0.64	0.30	0.15	0.41
29-Oct-2013		0.16	0.26	0.56	0.40	0.34	0.19	0.39	0.37	0.32
30-Oct-2013		0.27	0.26	1.83	1.53	0.62	0.36	0.23	0.19	0.22
31-Oct-2013		0.18	0.92	0.25	0.49	0.20	0.40	0.18	0.16	0.25
1-Nov-2013		0.19	0.26	0.21	0.35	0.22	0.18	0.48	0.26	0.37
2-Nov-2013		0.25	0.15	0.45	0.73	0.15	1.10	0.86	0.95	0.25
Remark										

Prepared by :Lo wing yue (Surveyor)

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)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 3-Nov-2013 to 16-Nov-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 (Initial)		**0.56**	**0.13**	**0.19**	**0.22**	**0.13**	**0.21**	**0.13**	**0.13**	**0.37**
Surveying Date										
3-Nov-2013	Sunday									
4-Nov-2013		0.24	0.18	0.22	0.18	0.15	0.68	0.28	0.24	0.66
5-Nov-2013		2.07	0.17	0.14	1.55	1.77	0.42	0.54	0.22	0.38
6-Nov-2013		0.88	0.57	0.16	0.20	0.20	0.30	1.12	0.72	0.29
7-Nov-2013		0.21	0.20	0.25	0.37	0.46	0.24	0.18	0.40	0.16
8-Nov-2013		0.32	0.25	0.29	0.16	0.27	0.38	0.14	0.20	0.26
9-Nov-2013		0.15	0.30	0.79	1.04	0.14	0.15	0.63	0.26	0.15
10-Nov-2013	Sunday									
11-Nov-2013		0.19	0.20	0.16	0.14	0.18	0.19	0.13	0.19	0.16
12-Nov-2013		0.25	0.31	0.46	0.17	0.18	0.20	0.14	0.25	0.26
13-Nov-2013		0.14	0.16	0.29	0.15	0.15	0.16	0.18	0.34	0.21
14-Nov-2013		0.38	0.19	0.14	0.31	0.17	0.21	0.24	0.23	0.15
15-Nov-2013		0.21	0.20	0.27	0.18	0.18	0.24	0.35	0.93	0.19
16-Nov-2013		0.13	0.15	0.22	0.24	0.25	0.18	0.26	0.42	0.20
Remark										

Prepared by :Lo wing yue (Surveyor)

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)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 17-Nov-2013 to 30-Nov-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 (Initial)		**0.56**	**0.13**	**0.19**	**0.22**	**0.13**	**0.21**	**0.13**	**0.13**	**0.37**
Surveying Date										
17-Nov-2013	Sunday									
18-Nov-2013		1.05	0.14	0.14	0.35	0.30	0.17	0.27	0.22	0.32
19-Nov-2013		0.55	0.25	0.16	0.25	0.40	0.25	0.73	0.29	0.25
20-Nov-2013		0.15	0.26	0.36	0.91	0.29	0.46	0.25	0.12	0.46
21-Nov-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22-Nov-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23-Nov-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24-Nov-2013	Sunday									
25-Nov-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26-Nov-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27-Nov-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28-Nov-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29-Nov-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30-Nov-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Remark										

Prepared by :Lo wing yue (Surveyor)

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)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Dec-2013 to 14-Dec-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 (Initial)		**0.56**	**0.13**	**0.19**	**0.22**	**0.13**	**0.21**	**0.13**	**0.13**	**0.37**
Surveying Date										
1-Dec-2013	Sunday									
2-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8-Dec-2013	Sunday									
9-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Remark										

Prepared by :Lo wing yue (Surveyor)

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)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 15-Dec-2013 to 28-Dec-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 (Initial)		**0.56**	**0.13**	**0.19**	**0.22**	**0.13**	**0.21**	**0.13**	**0.13**	**0.37**
Surveying Date										
15-Dec-2013	Sunday									
16-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22-Dec-2013	Sunday									
23-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25-Dec-2013	Public Holiday									
26-Dec-2013	Public Holiday									
27-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Remark										

Prepared by :Lo wing yue (Surveyor)

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)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 29-Dec-2013 to 11-Jan-2014

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 (Initial)		**0.56**	**0.13**	**0.19**	**0.22**	**0.13**	**0.21**	**0.13**	**0.13**	**0.37**
Surveying Date										
29-Dec-2013	Sunday									
30-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31-Dec-2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1-Jan-2014	Public Holiday									
2-Jan-2014		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3-Jan-2014		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4-Jan-2014		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-Jan-2014	Sunday									
6-Jan-2014		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7-Jan-2014		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8-Jan-2014		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9-Jan-2014		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-Jan-2014		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11-Jan-2014		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Remark										

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)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 12-Jan-2014 to 25-Jan-2014

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 (Initial)		**0.56**	**0.13**	**0.19**	**0.22**	**0.13**	**0.21**	**0.13**	**0.13**	**0.37**
Surveying Date										
12-Jan-2014	Sunday									
13-Jan-2014		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14-Jan-2014		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15-Jan-2014		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16-Jan-2014		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17-Jan-2014		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18-Jan-2014		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19-Jan-2014	Sunday									
20-Jan-2014		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21-Jan-2014		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22-Jan-2014		0.51	0.18	0.15	0.24	0.16	0.24	0.15	0.16	0.32
23-Jan-2014		0.44	0.15	0.20	0.21	0.20	0.34	0.28	0.15	0.22
24-Jan-2014		0.43	0.21	0.18	0.26	0.22	0.31	0.25	0.17	0.25
25-Jan-2014		0.48	0.23	0.17	0.23	0.34	0.29	0.21	0.19	0.24
Remark										

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)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 26-Jan-2014 to 8-Feb-2014

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 (Initial)		**0.56**	**0.13**	**0.19**	**0.22**	**0.13**	**0.21**	**0.13**	**0.13**	**0.37**
Surveying Date										
26-Jan-2014	Sunday									
27-Jan-2014		0.46	0.28	0.15	0.25	0.26	0.36	0.24	0.19	0.19
28-Jan-2014		0.44	0.31	0.16	0.21	0.24	0.38	0.22	0.16	0.21
29-Jan-2014		0.43	0.35	0.19	0.28	0.26	0.35	0.26	0.18	0.25
30-Jan-2014	Holiday									
31-Jan-2014	Public Holiday									
1-Feb-2014	Public Holiday									
2-Feb-2014	Sunday									
3-Feb-2014	Public Holiday									
4-Feb-2014		0.42	0.32	0.18	0.25	0.27	0.35	0.21	0.17	0.22
5-Feb-2014		0.43	0.34	0.19	0.29	0.21	0.34	0.28	0.19	0.25
6-Feb-2014										
7-Feb-2014										
8-Feb-2014										
Remark										

Prepared by :Lo wing yue (Surveyor)

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)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 2-Feb-2014 to 15-Feb-2014

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 (Initial)		**0.56**	**0.13**	**0.19**	**0.22**	**0.13**	**0.21**	**0.13**	**0.13**	**0.37**
Surveying Date										
2-Feb-2014	Sunday									
3-Feb-2014	Public Holiday									
4-Feb-2014	Site Closed									
5-Feb-2014	Site Closed									
6-Feb-2014		0.410	0.106	0.153	0.081	0.181	0.350	0.250	0.180	0.240
7-Feb-2014		0.380	0.209	0.242	0.108	0.100	0.310	0.290	0.200	0.220
8-Feb-2014		0.370	0.131	0.145	0.087	0.098	0.320	0.240	0.160	0.210
9-Feb-2014	Sunday									
10-Feb-2014		0.430	0.727	0.616	0.461	0.799	0.370	0.220	0.180	0.210
11-Feb-2014		0.410	0.572	0.642	0.550	0.522	0.480	0.500	0.470	0.460
12-Feb-2014		0.400	0.328	0.414	0.353	0.282	0.520	0.580	0.510	0.530
13-Feb-2014		0.430	0.172	0.093	0.250	0.091	0.540	0.610	0.570	0.500
14-Feb-2014		0.450	0.175	0.302	0.169	0.209	0.560	0.620	0.580	0.560
15-Feb-2014		0.470	0.204	0.157	0.137	0.119	0.580	0.600	0.550	0.540
Remark										

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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)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 16-Feb-2014 to 1-Mar-2014

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 (Initial)		**0.56**	**0.13**	**0.19**	**0.22**	**0.13**	**0.21**	**0.13**	**0.13**	**0.37**
Surveying Date										
16-Feb-2014	Sunday									
17-Feb-2014		**0.460**	**0.091**	**0.164**	**0.095**	**0.098**	**0.610**	**0.570**	**0.570**	**0.210**
18-Feb-2014		**0.450**	**0.108**	**0.091**	**0.122**	**0.098**	**0.670**	**0.580**	**0.590**	**0.460**
19-Feb-2014		**0.450**	**0.145**	**0.086**	**0.174**	**0.087**	**0.690**	**0.620**	**0.620**	**0.530**
20-Feb-2014		**0.500**	**0.352**	**0.597**	**0.309**	**0.102**	**0.700**	**0.650**	**0.630**	**0.500**
21-Feb-2014		**0.510**	**0.131**	**0.209**	**0.163**	**0.129**	**0.670**	**0.600**	**0.700**	**0.560**
22-Feb-2014		**0.470**	**0.125**	**0.105**	**0.091**	**0.091**	**0.700**	**0.620**	**0.650**	**0.540**
23-Feb-2014	Sunday									
24-Feb-2014		**0.480**	**0.261**	**0.320**	**0.113**	**0.100**	**0.690**	**0.680**	**0.640**	**0.640**
25-Feb-2014		**0.520**	**0.087**	**0.143**	**0.307**	**0.093**	**0.750**	**0.670**	**0.660**	**0.700**
26-Feb-2014		**0.570**	**0.119**	**0.091**	**0.105**	**0.083**	**0.790**	**0.650**	**0.680**	**0.740**
27-Feb-2014		**0.590**	**0.207**	**0.086**	**0.132**	**0.095**	**0.790**	**0.710**	**0.680**	**0.720**
28-Feb-2014		**0.520**	**0.144**	**0.343**	**0.223**	**0.087**	**0.810**	**0.680**	**0.650**	**0.710**
1-Mar-2014		**0.610**	**0.116**	**0.233**	**0.355**	**0.111**	**0.780**	**0.700**	**0.690**	**0.720**
Remark										

Prepared by :Lo wing yue (Surveyor)

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)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 2-Mar-2014 to 15-Mar-2014

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 (Initial)		**0.56**	**0.13**	**0.19**	**0.22**	**0.13**	**0.21**	**0.13**	**0.13**	**0.37**
Surveying Date										
2-Mar-2014	Sunday									
3-Mar-2014		**0.580**	**0.108**	**0.113**	**0.137**	**0.111**	**0.820**	**0.710**	**0.690**	**0.750**
4-Mar-2014		**0.570**	**0.106**	**0.119**	**0.125**	**0.264**	**0.800**	**0.660**	**0.680**	**0.740**
5-Mar-2014		**0.560**	**0.108**	**0.191**	**0.154**	**0.103**	**0.780**	**0.700**	**0.650**	**0.710**
6-Mar-2014		**0.560**	**0.164**	**0.191**	**0.151**	**0.083**	**0.800**	**0.760**	**0.720**	**0.680**
7-Mar-2014		**0.580**	**0.158**	**0.151**	**0.143**	**0.113**	**0.800**	**0.770**	**0.710**	**0.700**
8-Mar-2014		**0.540**	**0.135**	**0.128**	**0.138**	**0.105**	**0.820**	**0.710**	**0.680**	**0.710**
9-Mar-2014	Sunday									
10-Mar-2014		**0.750**	**0.243**	**0.501**	**0.208**	**0.095**	**0.520**	**0.210**	**0.710**	**0.500**
11-Mar-2014		**0.710**	**0.162**	**0.138**	**0.126**	**0.142**	**0.550**	**0.250**	**0.750**	**0.510**
12-Mar-2014		**0.730**	**0.607**	**0.530**	**0.137**	**0.094**	**0.500**	**0.283**	**0.740**	**0.480**
13-Mar-2014		**0.720**	**0.086**	**0.102**	**0.180**	**0.111**	**0.490**	**0.320**	**0.750**	**0.510**
14-Mar-2014		**0.730**	**0.351**	**0.232**	**0.168**	**0.143**	**0.520**	**0.280**	**0.760**	**0.510**
15-Mar-2014		**0.740**	**0.195**	**0.210**	**0.209**	**0.161**	**0.560**	**0.260**	**0.750**	**0.470**
Remark										

Prepared by :Lo wing yue (Surveyor)

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)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 16-Mar-2014 to 29-Mar-2014

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 (Initial)		**0.56**	**0.13**	**0.19**	**0.22**	**0.13**	**0.21**	**0.13**	**0.13**	**0.37**
Surveying Date										
16-Mar-2014		Sunday								
17-Mar-2014		**0.710**	**0.600**	**0.340**	**0.510**	**0.420**	**0.550**	**0.210**	**0.710**	**0.500**
18-Mar-2014		**0.740**	**0.610**	**0.360**	**0.520**	**0.460**	**0.560**	**0.250**	**0.750**	**0.510**
19-Mar-2014		**0.750**	**0.550**	**0.370**	**0.530**	**0.480**	**0.550**	**0.280**	**0.740**	**0.480**
20-Mar-2014		**0.760**	**0.650**	**0.350**	**0.540**	**0.420**	**0.590**	**0.320**	**0.750**	**0.510**
21-Mar-2014		**0.730**	**0.580**	**0.370**	**0.550**	**0.480**	**0.650**	**0.280**	**0.760**	**0.510**
22-Mar-2014		**0.740**	**0.570**	**0.380**	**0.520**	**0.490**	**0.620**	**0.260**	**0.750**	**0.470**
23-Mar-2014		Sunday								
24-Mar-2014		**0.770**	**0.480**	**0.350**	**0.520**	**0.480**	**0.560**	**0.280**	**0.780**	**0.650**
25-Mar-2014		**0.850**	**0.520**	**0.350**	**0.580**	**0.520**	**0.610**	**0.350**	**0.850**	**0.710**
26-Mar-2014		**0.820**	**0.540**	**0.370**	**0.560**	**0.510**	**0.620**	**0.340**	**0.810**	**0.750**
27-Mar-2014		**0.840**	**0.530**	**0.350**	**0.550**	**0.490**	**0.650**	**0.360**	**0.840**	**0.720**
28-Mar-2014		**0.850**	**0.490**	**0.340**	**0.540**	**0.480**	**0.660**	**0.350**	**0.800**	**0.700**
29-Mar-2014		**0.810**	**0.460**	**0.300**	**0.500**	**0.420**	**0.590**	**0.290**	**0.760**	**0.650**
30-Mar-2014		Sunday								
31-Mar-2014		**0.820**	**0.540**	**0.380**	**0.570**	**0.500**	**0.680**	**0.380**	**0.810**	**0.720**
Remark										

Prepared by :Lo wing yue (Surveyor)

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)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Apr-2014 to 30-Apr-2014

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 (Initial)		**0.56**	**0.13**	**0.19**	**0.22**	**0.13**	**0.21**	**0.13**	**0.13**	**0.37**
Surveying Date										
1-Apr-2014		0.83	0.51	0.36	0.56	0.49	0.65	0.34	0.82	0.70
2-Apr-2014		0.84	0.50	0.35	0.56	0.49	0.67	0.37	0.81	0.71
3-Apr-2014		0.83	0.52	0.34	0.54	0.47	0.62	0.35	0.80	0.70
4-Apr-2014		0.82	0.50	0.33	0.55	0.46	0.63	0.33	0.81	0.68
5-Apr-2014		**Holiday**								
6-Apr-2014		**Sunday**								
7-Apr-2014		0.76	0.52	0.52	0.55	0.49	0.57	0.31	0.82	0.64
8-Apr-2014		0.75	0.52	0.50	0.54	0.46	0.55	0.28	0.71	0.66
9-Apr-2014		0.75	0.51	0.52	0.52	0.45	0.49	0.29	0.75	0.64
10-Apr-2014		0.74	0.49	0.51	0.53	0.44	0.54	0.28	0.76	0.61
11-Apr-2014		0.73	0.47	0.47	0.47	0.43	0.49	0.19	0.56	0.50
12-Apr-2014		0.72	0.48	0.49	0.45	0.45	0.47	0.15	0.51	0.47
13-Apr-2014		**Sunday**								
14-Apr-2014		0.73	0.46	0.48	0.44	0.43	0.46	0.13	0.55	0.42
15-Apr-2014		0.72	0.44	0.47	0.42	0.40	0.48	0.15	0.56	0.45
16-Apr-2014		0.70	0.43	0.46	0.45	0.41	0.47	0.16	0.58	0.43
17-Apr-2014		0.75	0.48	0.48	0.46	0.40	0.46	0.14	0.54	0.44
18-Apr-2014		**Holiday**								
19-Apr-2014		**Holiday**								
20-Apr-2014		**Sunday**								
21-Apr-2014		**Holiday**								
22-Apr-2014		0.74	0.50	0.51	0.51	0.43	0.55	0.28	0.72	0.65
23-Apr-2014		0.75	0.51	0.52	0.52	0.45	0.52	0.31	0.73	0.64
24-Apr-2014		0.73	0.50	0.53	0.56	0.44	0.54	0.30	0.75	0.68
25-Apr-2014		0.76	0.53	0.54	0.54	0.46	0.57	0.29	0.74	0.67
26-Apr-2014		0.72	0.56	0.52	0.52	0.45	0.52	0.31	0.73	0.65
27-Apr-2014		**Sunday**								
28-Apr-2014		0.74	0.54	0.53	0.51	0.43	0.53	0.30	0.71	0.64
29-Apr-2014		0.75	0.52	0.51	0.50	0.42	0.51	0.27	0.70	0.61
30-Apr-2014		0.73	0.51	0.50	0.48	0.40	0.48	0.28	0.67	0.56

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)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-May-2014 to 30-May-2014

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 (Initial)		**0.56**	**0.13**	**0.19**	**0.22**	**0.13**	**0.21**	**0.13**	**0.13**	**0.37**
Surveying Date										
1-May-2014		**Holiday**								
2-May-2014		0.72	0.50	0.48	0.51	0.42	0.47	0.26	0.68	0.59
3-May-2014		0.71	0.48	0.49	0.49	0.43	0.46	0.25	0.65	0.57
4-May-2014		**Sunday**								
5-May-2014		0.75	0.51	0.53	0.52	0.43	0.56	0.30	0.75	0.66
6-May-2014		**Holiday**								
7-May-2014		0.75	0.49	0.55	0.51	0.42	0.54	0.29	0.74	0.65
8-May-2014		0.74	0.46	0.54	0.50	0.41	0.53	0.31	0.73	0.67
9-May-2014		0.77	0.47	0.53	0.49	0.40	0.55	0.30	0.73	0.68
10-May-2014		0.76	0.49	0.51	0.51	0.42	0.54	0.28	0.74	0.64
11-May-2014		**Sunday**								
12-May-2014		0.75	0.48	0.52	0.50	0.45	0.56	0.29	0.75	0.68
13-May-2014		0.74	0.46	0.53	0.49	0.44	0.53	0.30	0.73	0.65
14-May-2014		0.73	0.47	0.51	0.49	0.40	0.54	0.31	0.72	0.66
15-May-2014		0.78	0.46	0.50	0.47	0.39	0.56	0.30	0.71	0.67
16-May-2014		0.76	0.45	0.49	0.46	0.41	0.53	0.38	0.70	0.65
17-May-2014		0.75	0.43	0.42	0.44	0.40	0.52	0.36	0.69	0.64
18-May-2014		**Sunday**								
19-May-2014		0.77	0.44	0.48	0.45	0.40	0.54	0.32	0.67	0.64
20-May-2014		0.75	0.46	0.47	0.43	0.38	0.51	0.35	0.65	0.63
21-May-2014		0.76	0.45	0.46	0.44	0.41	0.52	0.31	0.67	0.64
22-May-2014		0.74	0.47	0.47	0.41	0.39	0.50	0.28	0.61	0.62
23-May-2014		0.75	0.43	0.45	0.43	0.38	0.48	0.30	0.65	0.62
24-May-2014		0.73	0.40	0.43	0.42	0.37	0.49	0.29	0.62	0.61
25-May-2014		**Sunday**								
26-May-2014		0.73	0.38	0.43	0.42	0.33	0.48	0.33	0.59	0.60
27-May-2014		0.74	0.37	0.41	0.39	0.38	0.47	0.31	0.61	0.59
28-May-2014		0.75	0.36	0.43	0.40	0.36	0.50	0.30	0.60	0.61
29-May-2014		0.72	0.38	0.42	0.41	0.37	0.51	0.29	0.58	0.62
30-May-2014		0.73	0.36	0.40	0.40	0.36	0.47	0.28	0.53	0.59

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)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jun-2014 to 30-Jun-2014

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 (Initial)		**0.56**	**0.13**	**0.19**	**0.22**	**0.13**	**0.21**	**0.13**	**0.13**	**0.37**
Surveying Date										
1-Jun-2014		**Sunday**								
2-Jun-2014		**Holiday**								
3-Jun-2014		0.75	0.46	0.47	0.43	0.38	0.51	0.35	0.65	0.62
4-Jun-2014		0.76	0.45	0.46	0.44	0.41	0.52	0.31	0.67	0.63
5-Jun-2014		0.71	0.40	0.41	0.39	0.37	0.48	0.29	0.59	0.61
6-Jun-2014		0.70	0.41	0.42	0.38	0.39	0.46	0.29	0.64	0.62
7-Jun-2014		0.69	0.39	0.39	0.38	0.40	0.42	0.27	0.59	0.60
8-Jun-2014		**Sunday**								
9-Jun-2014		0.67	0.35	0.37	0.37	0.39	0.40	0.26	0.60	0.60
10-Jun-2014		0.65	0.38	0.40	0.35	0.37	0.45	0.28	0.62	0.61
11-Jun-2014		0.64	0.39	0.36	0.36	0.34	0.44	0.30	0.63	0.59
12-Jun-2014		0.66	0.36	0.35	0.34	0.36	0.46	0.29	0.60	0.58
13-Jun-2014		0.63	0.35	0.37	0.36	0.35	0.45	0.27	0.61	0.60
14-Jun-2014		0.62	0.37	0.35	0.34	0.33	0.44	0.26	0.59	0.58
15-Jun-2014		**Sunday**								
16-Jun-2014		0.64	0.36	0.36	0.35	0.33	0.43	0.25	0.60	0.59
17-Jun-2014		0.63	0.35	0.34	0.34	0.32	0.42	0.24	0.54	0.55
18-Jun-2014		0.61	0.36	0.35	0.35	0.31	0.44	0.25	0.57	0.58
19-Jun-2014		0.62	0.34	0.34	0.34	0.32	0.43	0.24	0.58	0.56
20-Jun-2014		0.59	0.33	0.35	0.33	0.31	0.42	0.21	0.59	0.54
21-Jun-2014		0.58	0.34	0.32	0.32	0.30	0.42	0.22	0.54	0.53
22-Jun-2014		**Sunday**								
23-Jun-2014		0.57	0.33	0.31	0.30	0.31	0.42	0.21	0.53	0.53
24-Jun-2014		0.59	0.32	0.32	0.31	0.30	0.41	0.22	0.52	0.52
25-Jun-2014		0.58	0.34	0.30	0.30	0.29	0.38	0.20	0.50	0.50
26-Jun-2014		0.56	0.32	0.29	0.29	0.28	0.36	0.18	0.49	0.48
27-Jun-2014		0.54	0.32	0.28	0.28	0.26	0.34	0.19	0.48	0.47
28-Jun-2014		0.51	0.30	0.26	0.26	0.27	0.37	0.21	0.43	0.45
29-Jun-2014		**Sunday**								
30-Jun-2014		0.55	0.31	0.27	0.26	0.27	0.35	0.19	0.45	0.41

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)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jul-2014 to 30-Jul-2014

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 (Initial)		**0.56**	**0.13**	**0.19**	**0.22**	**0.13**	**0.21**	**0.13**	**0.13**	**0.37**
Surveying Date										
1-Jul-2014						**Holiday**				
2-Jul-2014		0.51	0.31	0.26	0.25	0.29	0.35	0.24	0.45	0.42
3-Jul-2014		0.45	0.30	0.22	0.26	0.28	0.19	0.28	0.48	0.46
4-Jul-2014		0.56	0.32	0.25	0.28	0.30	0.30	0.33	0.55	0.44
5-Jul-2014		0.50	0.35	0.29	0.27	0.31	0.27	0.25	0.54	0.49
6-Jul-2014						**Sunday**				
7-Jul-2014		0.55	0.31	0.27	0.25	0.28	0.17	0.20	0.50	0.48
8-Jul-2014		0.54	0.33	0.28	0.29	0.22	0.38	0.31	0.44	0.41
9-Jul-2014		0.53	0.32	0.27	0.22	0.25	0.18	0.25	0.49	0.45
10-Jul-2014		0.52	0.33	0.29	0.25	0.24	0.22	0.26	0.50	0.49
11-Jul-2014		0.60	0.38	0.32	0.36	0.34	0.10	0.30	0.63	0.59
12-Jul-2014		0.66	0.36	0.35	0.34	0.36	0.12	0.20	0.55	0.53
13-Jul-2014						**Sunday**				
14-Jul-2014		0.55	0.31	0.27	0.26	0.27	0.35	0.19	0.45	0.41
15-Jul-2014		0.55	0.31	0.27	0.26	0.27	0.35	0.19	0.45	0.41
16-Jul-2014		0.16	0.18	0.16	0.20	0.23	0.18	0.17	0.40	0.15
17-Jul-2014		0.60	0.12	0.25	0.27	0.34	0.20	0.16	0.24	0.15
18-Jul-2014		0.36	0.46	0.17	0.34	0.12	0.17	0.36	0.25	0.34
19-Jul-2014		0.13	0.33	0.46	0.14	0.24	0.12	0.25	0.20	0.35
20-Jul-2014						Sunday				
21-Jul-2014		0.08	0.09	0.31	0.58	0.09	0.66	0.76	0.09	0.21
22-Jul-2014		0.07	0.09	0.08	0.42	0.21	0.34	0.18	0.10	0.10
23-Jul-2014		0.06	0.08	0.17	0.31	0.06	0.07	0.11	0.18	0.07
24-Jul-2014		0.09	0.41	0.10	0.15	0.01	0.23	0.25	0.33	0.33
25-Jul-2014		0.10	0.13	0.37	0.17	0.65	0.10	0.15	0.10	0.14
26-Jul-2014		0.54	0.16	0.17	0.34	0.16	0.30	0.18	0.10	0.17
27-Jul-2014						Sunday				
28-Jul-2014		0.16	0.52	0.27	0.20	0.16	0.21	0.20	0.22	0.17
29-Jul-2014		0.09	0.26	0.08	0.12	0.13	0.09	0.08	0.13	0.08
30-Jul-2014		0.55	0.40	0.15	0.28	0.53	0.48	0.06	0.09	0.30
31-Jul-2014		0.13	0.25	0.11	0.11	0.16	0.09	0.15	0.17	0.65

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)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Aug-2014 to 30-Aug-2014

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 (Initial)		**0.56**	**0.13**	**0.19**	**0.22**	**0.13**	**0.21**	**0.13**	**0.13**	**0.37**
Surveying Date										
1-Aug-2014		0.23	0.14	0.46	0.08	0.08	0.11	0.17	0.07	0.50
2-Aug-2014		0.15	0.35	0.14	0.16	0.19	0.08	0.20	0.10	0.19
3-Aug-2014		**Holiday**								
4-Aug-2014		0.17	0.14	0.49	0.17	0.13	0.20	0.17	0.35	0.20
5-Aug-2014		0.32	0.31	0.16	0.29	0.14	0.31	0.37	0.17	0.23
6-Aug-2014		0.37	0.13	0.38	0.22	0.19	0.20	0.16	0.64	0.17
7-Aug-2014		0.20	0.29	0.08	0.20	0.13	0.09	0.12	0.25	0.18
8-Aug-2014		0.16	0.19	0.14	0.14	0.10	0.15	0.38	0.19	0.13
9-Aug-2014		0.36	0.55	0.22	0.33	0.19	0.13	0.21	0.18	0.10
10-Aug-2014		**Holiday**								
11-Aug-2014		0.35	0.17	0.30	0.26	0.20	0.09	0.19	0.27	0.20
12-Aug-2014		0.22	0.27	0.20	0.11	0.10	0.14	0.62	0.25	0.15
13-Aug-2014		0.11	0.39	0.14	0.20	0.17	0.20	0.17	0.11	0.09
14-Aug-2014		0.40	0.15	0.09	0.27	0.15	0.12	0.08	0.17	0.12
15-Aug-2014		0.11	0.37	0.19	0.29	0.16	0.15	0.19	0.24	0.19
16-Aug-2014		0.10	0.28	0.16	0.15	0.09	0.10	0.08	0.19	0.10
17-Aug-2014		**Holiday**								
18-Aug-2014		0.52	0.15	0.17	0.22	0.17	0.12	0.17	0.17	0.24
19-Aug-2014		0.22	0.39	0.20	0.09	0.11	0.09	0.10	0.08	0.11
20-Aug-2014		0.49	0.20	0.11	0.18	0.10	0.10	0.11	0.09	0.10
21-Aug-2014		0.20	0.28	0.08	0.12	0.24	0.08	0.22	0.11	0.08
22-Aug-2014		0.22	0.19	0.08	0.11	0.15	0.15	0.18	0.12	0.14
23-Aug-2014		0.34	0.24	0.16	0.25	0.17	0.10	0.17	0.20	0.07
24-Aug-2014		**Holiday**								
25-Aug-2014		0.20	0.21	0.07	0.19	0.16	0.09	0.40	0.24	0.17
26-Aug-2014		0.23	0.20	0.08	0.17	0.14	0.12	0.32	0.27	0.12
27-Aug-2014		0.18	0.17	0.14	0.15	0.12	0.08	0.37	0.21	0.21
28-Aug-2014		0.16	0.20	0.20	0.17	0.16	0.10	0.21	0.13	0.18
29-Aug-2014		0.37	0.35	0.17	0.27	0.20	0.11	0.12	0.23	0.14
30-Aug-2014		0.12	0.27	0.12	0.18	0.14	0.18	0.18	0.21	0.20
31-Aug-2014		**Holiday**								

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)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Sep-2014 to 30-Sep-2014

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 (Initial)		**0.56**	**0.13**	**0.19**	**0.22**	**0.13**	**0.21**	**0.13**	**0.13**	**0.37**
Surveying Date										
1-Sep-2014		0.20	0.16	0.35	0.12	0.14	0.10	0.53	0.18	0.07
2-Sep-2014		0.29	0.20	0.13	0.39	0.14	0.13	0.18	0.08	0.11
3-Sep-2014		0.14	0.39	0.12	0.20	0.19	0.10	0.14	0.20	0.10
4-Sep-2014		0.23	0.19	0.10	0.16	0.15	0.07	0.17	0.14	0.14
5-Sep-2014		0.20	0.26	0.18	0.16	0.10	0.10	0.40	0.20	0.22
6-Sep-2014		0.62	0.19	0.12	0.15	0.14	0.09	0.21	0.19	0.11
7-Sep-2014		Sunday								
8-Sep-2014		0.20	0.20	0.08	0.17	0.09	0.13	0.20	0.09	0.08
9-Sep-2014		Holiday								
10-Sep-2014		0.38	0.11	0.20	0.23	0.19	0.09	0.13	0.11	0.12
11-Sep-2014		0.23	0.20	0.11	0.32	0.20	0.10	0.20	0.12	0.14
12-Sep-2014		0.36	0.43	0.10	0.18	0.12	0.08	0.16	0.14	0.17
13-Sep-2014		0.19	0.28	0.13	0.21	0.21	0.12	0.21	0.16	0.11
14-Sep-2014		Sunday								
15-Sep-2014		0.36	0.43	0.13	0.32	0.14	0.10	0.18	0.15	0.12
16-Sep-2014		0.12	0.12	0.09	0.16	0.10	0.09	0.13	0.13	0.08
17-Sep-2014		0.13	0.33	0.14	0.14	0.12	0.12	0.10	0.14	0.08
18-Sep-2014		0.22	0.27	0.20	0.31	0.20	0.14	0.08	0.07	0.15
19-Sep-2014		0.34	0.24	0.16	0.25	0.17	0.10	0.17	0.20	0.07
20-Sep-2014		0.29	0.15	0.12	0.19	0.12	0.11	0.12	0.28	0.14
21-Sep-2014		Sunday								
22-Sep-2014		0.18	0.17	0.22	0.24	0.18	0.10	0.16	0.23	0.12
23-Sep-2014		0.15	0.14	0.17	0.18	0.15	0.15	0.21	0.22	0.19
24-Sep-2014		0.13	0.33	0.16	0.24	0.24	0.12	0.15	0.10	0.87
25-Sep-2014		0.16	0.28	0.16	0.30	0.13	0.18	0.17	0.10	0.10
26-Sep-2014		0.16	0.41	0.10	0.22	0.09	0.10	0.13	0.13	0.09
27-Sep-2014		0.37	0.35	0.08	0.22	0.11	0.34	0.18	0.10	0.10
28-Sep-2014		Sunday								
29-Sep-2014		0.29	0.22	0.17	0.15	0.12	0.21	0.17	0.12	0.77
30-Sep-2014		0.32	0.31	0.16	0.29	0.22	0.32	0.18	0.11	0.13

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)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Oct-2014 to 30-Oct-2014

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 (Initial)		**0.56**	**0.13**	**0.19**	**0.22**	**0.13**	**0.21**	**0.13**	**0.13**	**0.37**
Surveying Date										
1-Oct-2014	Holiday									
2-Oct-2014	Holiday									
3-Oct-2014		0.29	0.24	0.13	0.39	0.18	0.15	0.11	0.08	0.11
4-Oct-2014		0.36	0.21	0.10	0.28	0.14	0.20	0.15	0.15	0.09
5-Oct-2014	Sunday									
6-Oct-2014		0.26	0.19	0.11	0.21	0.10	0.22	0.12	0.14	0.10
7-Oct-2014		0.55	0.40	0.26	0.28	0.53	0.48	0.19	0.09	0.10
8-Oct-2014		0.31	0.25	0.11	0.18	0.16	0.29	0.15	0.12	0.07
9-Oct-2014		0.36	0.46	0.17	0.34	0.12	0.17	0.26	0.25	0.24
10-Oct-2014		0.13	0.33	0.36	0.14	0.24	0.12	0.15	0.13	0.14
11-Oct-2014		0.42	0.16	0.17	0.34	0.16	0.30	0.18	0.10	0.17
12-Oct-2014	Sunday									
13-Oct-2014		0.16	0.52	0.27	0.30	0.16	0.24	0.20	0.12	0.08
14-Oct-2014		0.30	0.22	0.13	0.17	0.07	0.30	0.15	0.10	0.10
15-Oct-2014		0.54	0.16	0.11	0.34	0.16	0.30	0.11	0.10	0.09
16-Oct-2014		0.31	0.26	0.13	0.16	0.11	0.19	0.36	0.11	0.12
17-Oct-2014		0.29	0.11	0.17	0.21	0.09	0.11	0.14	0.11	0.07
18-Oct-2014		0.12	0.18	0.09	0.14	0.26	0.29	0.10	0.09	0.10
19-Oct-2014	Sunday									
20-Oct-2014		0.34	0.19	0.22	0.33	0.11	0.31	0.15	0.12	0.10
21-Oct-2014		0.19	0.13	0.20	0.17	0.14	0.20	0.11	0.12	0.08
22-Oct-2014		0.27	0.14	0.10	0.14	0.12	0.17	0.10	0.10	0.10
23-Oct-2014		0.22	0.19	0.15	0.13	0.20	0.26	0.12	0.17	0.09
24-Oct-2014		0.47	0.20	0.16	0.19	0.18	0.19	0.12	0.10	0.18
25-Oct-2014		0.44	0.17	0.19	0.13	0.10	0.27	0.11	0.14	0.08
26-Oct-2014	Sunday									
27-Oct-2014		0.13	0.17	0.19	0.51	0.10	0.19	0.16	0.11	0.08
28-Oct-2014		0.19	0.36	0.15	0.46	0.21	0.17	0.10	0.14	0.08
29-Oct-2014		0.17	0.13	0.19	0.41	0.12	0.36	0.09	0.10	0.09
30-Oct-2014		0.35	0.13	0.10	0.18	0.16	0.20	0.10	0.12	0.11
31-Oct-2014		0.17	0.17	0.12	0.20	0.18	0.20	0.13	0.12	0.07

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

WYNDHAM STREET
ARBUTHNOT ROAD
HOLLYWOOD ROAD
EZRA'S LANE
OLD BAILEY STREET
CHANCERY LANE
Garfield Commercial Building
Hanlee House
Chinachem Hollywood Centre
Au's Building
Central Police Station
Victoria Prison
The Centrium
Shiu King Court
Ovolo
New India House
Chancery Mansion
Alson Court
Hollywood Commercial House
Ho Fook Building
Winning House
Wing Lee Building
Villa Serene
Cambridge Villa
Tung Yuen Building
H.K. Zo Court
Podium
MONITORING ZONE A
11SW-B/R17
11SW-B/R18
11SW-B/R22
11SW-B/R805
11SW-B/R806
11SW-B/R23
11SW-B/R52
11SW-B/R24
11SW-B/R53
11SW-B/R176
11SW-B/R19
11SW-B/R174
11SW-B/R175
11SW-B/R55
11SW-B/R177
11SW-B/R54
11SW-B/R178

Plan Approved
NG Kin-shing
Chief Structural Engineer
for BUILDING AUTHORITY
13 JUL 2012

Key Plan 索引圖

BD SUBMISSION
Drawing Status 製圖狀況

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Client 業主
賽馬會文物保存有限公司
The Jockey Club CPS Limited

Design Consultant
HERZOG & DE MEURON

Conservation Architect

Executive Architect / AP
ROCCO

Structural Engineer / RSE
ARUP

E & M Engineer
JRP

Project 項目
CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT

Drawing Title 圖名
MONITORING LAYOUT PLAN

Scale 比例	Drawn 製圖	Checked 核對
1:3000A1	K.C.Lai	AL

Drawing No. 圖號 00-OAP209674-G-001
Revision 修改版 E

LEGEND

- EXISTING FRESH WATER MAIN
- EXISTING SALT WATER MAIN
- EXISTING STREET LIGHTING NO. 33488-A1
- EXISTING STREET LIGHTING CABLE
- EXISTING GAS MAIN
- EXISTING HV ELECTRICITY CABLE
- EXISTING LV ELECTRICITY CABLE
- EXISTING TELECOMMUNICATION DUCT (HUTCHISON GLOBAL COMMUNICATIONS LIMITED)
- EXISTING STORMWATER DRAIN
- EXISTING FOUL SEWER
- PROPOSED FOUL SEWER
- SITE BOUNDARY
- EXISTING RETAINING WALL
- DH1(S,P) EXISTING DRILLHOLE WITH STANDPIPE/PIEZOMETER
- BS1-1/BT1-1 PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER
- RS174-1/RT174-1 PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER
- IN1-1 PROPOSED INCLINOMETER TO BE BUILT IN BORED PILE WALL OR PIPE PILE WALL
- GS3 PROPOSED GROUND SETTLEMENT POINTS
- UT1 PROPOSED UTILITY MONITORING POINTS
- VM1-1 PROPOSED VIBRATION MONITORING POINTS
- ADH1(S/P) PROPOSED ADDITIONAL DRILLHOLE

Cad file : 00-OAP209674-G-001.dwg

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

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 27-Oct-2013 to 9-Nov-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						
27-Oct-2013	Sunday									
28-Oct-2013		0.20	0.59	0.26						
29-Oct-2013		0.21	0.36	0.23						
30-Oct-2013		0.35	0.20	0.21						
31-Oct-2013		0.19	0.46	0.37						
1-Nov-2013		0.37	0.26	0.29						
2-Nov-2013		0.16	0.54	0.24						
3-Nov-2013										
4-Nov-2013		0.22	0.49	0.29						
5-Nov-2013		0.18	0.34	0.18						
6-Nov-2013		0.99	0.39	1.01						
7-Nov-2013		0.23	0.56	0.22						
8-Nov-2013		0.21	0.14	0.26						
9-Nov-2013		0.28	0.32	0.17						
Remarks										

Prepared by : Lo wing yue (Surveyor)

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

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 10-Nov-2013 to 23-Nov-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						
10-Nov-2013	Sunday									
11-Nov-2013		0.18	0.16	0.16						
12-Nov-2013		0.19	0.95	0.26						
13-Nov-2013		0.30	0.21	0.17						
14-Nov-2013		0.22	0.84	0.23						
15-Nov-2013		0.15	0.48	0.24						
16-Nov-2013		0.13	0.29	0.23						
17-Nov-2013										
18-Nov-2013		0.40	0.19	0.19						
19-Nov-2013		0.25	0.29	0.46						
20-Nov-2013		0.20	0.30	0.40						
21-Nov-2013		0.00	0.00	0.00						
22-Nov-2013		0.00	0.00	0.00						
23-Nov-2013		0.00	0.00	0.00						
Remarks										

Prepared by : Lo wing yue (Surveyor)

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

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 24-Nov-2013 to 7-Dec-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						
24-Nov-2013	Sunday									
25-Nov-2013		0.00	0.00	0.00						
26-Nov-2013		0.00	0.00	0.00						
27-Nov-2013		0.00	0.00	0.00						
28-Nov-2013		0.00	0.00	0.00						
29-Nov-2013		0.00	0.00	0.00						
30-Nov-2013		0.00	0.00	0.00						
1-Dec-2013	Sunday									
2-Dec-2013		0.00	0.00	0.00						
3-Dec-2013		0.00	0.00	0.00						
4-Dec-2013		0.00	0.00	0.00						
5-Dec-2013		0.00	0.00	0.00						
6-Dec-2013		0.00	0.00	0.00						
7-Dec-2013		0.00	0.00	0.00						
Remarks										

Prepared by : Lo wing yue (Surveyor)

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

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 8-Dec-2013 to 21-Dec-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						
8-Dec-2013	Sunday									
9-Dec-2013		0.00	0.00	0.00						
10-Dec-2013		0.00	0.00	0.00						
11-Dec-2013		0.00	0.00	0.00						
12-Dec-2013		0.00	0.00	0.00						
13-Dec-2013		0.00	0.00	0.00						
14-Dec-2013		0.00	0.00	0.00						
15-Dec-2013	Sunday									
16-Dec-2013		0.00	0.00	0.00						
17-Dec-2013		0.00	0.00	0.00						
18-Dec-2013		0.00	0.00	0.00						
19-Dec-2013		0.00	0.00	0.00						
20-Dec-2013		0.00	0.00	0.00						
21-Dec-2013		0.00	0.00	0.00						
Remarks										

Prepared by : Lo wing yue (Surveyor)

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

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 22-Dec-2013 to 4-Jan-2014

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						
22-Dec-2013	Sunday									
23-Dec-2013		0.00	0.00	0.00						
24-Dec-2013		0.00	0.00	0.00						
25-Dec-2013	Public Holiday									
26-Dec-2013	Public Holiday									
27-Dec-2013		0.00	0.00	0.00						
28-Dec-2013		0.00	0.00	0.00						
29-Dec-2013	Sunday									
30-Dec-2013		0.00	0.00	0.00						
31-Dec-2013		0.00	0.00	0.00						
1-Jan-2014	Public Holiday									
2-Jan-2014		0.00	0.00	0.00						
3-Jan-2014		0.00	0.00	0.00						
4-Jan-2014		0.00	0.00	0.00						
Remarks										

Prepared by : Lo wing yue (Surveyor)

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

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 5-Jan-2014 to 18-Jan-2014

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						
5-Jan-2014	Sunday									
6-Jan-2014		0.00	0.00	0.00						
7-Jan-2014		0.00	0.00	0.00						
8-Jan-2014		0.00	0.00	0.00						
9-Jan-2014		0.00	0.00	0.00						
10-Jan-2014		0.00	0.00	0.00						
11-Jan-2014		0.00	0.00	0.00						
12-Jan-2014	Sunday									
13-Jan-2014		0.00	0.00	0.00						
14-Jan-2014		0.00	0.00	0.00						
15-Jan-2014		0.00	0.00	0.00						
16-Jan-2014		0.00	0.00	0.00						
17-Jan-2014		0.00	0.00	0.00						
18-Jan-2014		0.00	0.00	0.00						
Remarks										

Prepared by : Lo wing yue (Surveyor)

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

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 19-Jan-2014 to 1-Feb-2014

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						
19-Jan-2014	Sunday									
20-Jan-2014		0.00	0.00	0.00						
21-Jan-2014		0.00	0.00	0.00						
22-Jan-2014		0.08	0.14	0.21						
23-Jan-2014		0.18	0.20	0.18						
24-Jan-2014		0.23	0.23	0.19						
25-Jan-2014		0.21	0.25	0.28						
26-Jan-2014	Sunday									
27-Jan-2014		0.27	0.28	0.21						
28-Jan-2014		0.24	0.24	0.23						
29-Jan-2014		0.26	0.29	0.28						
30-Jan-2014	Holiday									
31-Jan-2014	Public Holiday									
1-Feb-2014	Public Holiday									
Remarks										

Prepared by : Lo wing yue (Surveyor)

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

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 2-Feb-2014 to 15-Feb-2014

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						
2-Feb-2014	Sunday									
3-Feb-2014	Public Holiday									
4-Feb-2014	Site Closed									
5-Feb-2014	Site Closed									
6-Feb-2014		0.280	0.117	0.130						
7-Feb-2014		0.260	0.230	0.160						
8-Feb-2014		0.210	0.093	0.140						
9-Feb-2014	Sunday									
10-Feb-2014		0.240	0.175	0.150						
11-Feb-2014		0.230	0.709	0.130						
12-Feb-2014		0.290	0.200	0.140						
13-Feb-2014		0.290	0.087	0.140						
14-Feb-2014		0.300	0.163	0.180						
15-Feb-2014		0.280	0.090	0.190						
Remarks										

Prepared by : Lo wing yue (Surveyor)

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

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 16-Feb-2014 to 1-Mar-2014

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						
16-Feb-2014	Sunday									
17-Feb-2014		**0.290**	**0.122**	**0.200**						
18-Feb-2014		**0.310**	**0.270**	**0.190**						
19-Feb-2014		**0.280**	**0.095**	**0.220**						
20-Feb-2014		**0.300**	**0.086**	**0.250**						
21-Feb-2014		**0.290**	**0.087**	**0.270**						
22-Feb-2014		**0.350**	**0.150**	**0.200**						
23-Feb-2014	Sunday									
24-Feb-2014		**0.320**	**0.100**	**0.290**						
25-Feb-2014		**0.290**	**0.112**	**0.350**						
26-Feb-2014		**0.310**	**0.108**	**0.320**						
27-Feb-2014		**0.320**	**0.102**	**0.280**						
28-Feb-2014		**0.290**	**0.108**	**0.270**						
1-Mar-2014		**0.310**	**0.086**	**0.320**						
Remarks										

Prepared by : Lo wing yue (Surveyor)

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

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 2-Mar-2014 to 15-Mar-2014

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						
2-Mar-2014	Sunday									
3-Mar-2014		**0.350**	**0.100**	**0.220**						
4-Mar-2014		**0.380**	**0.081**	**0.250**						
5-Mar-2014		**0.370**	**0.113**	**0.250**						
6-Mar-2014		**0.360**	**0.125**	**0.330**						
7-Mar-2014		**0.340**	**0.083**	**0.340**						
8-Mar-2014		**0.370**	**0.193**	**0.390**						
9-Mar-2014	Sunday									
10-Mar-2014		**0.410**	**0.102**	**0.400**						
11-Mar-2014		**0.380**	**0.109**	**0.350**						
12-Mar-2014		**0.360**	**0.103**	**0.390**						
13-Mar-2014		**0.390**	**0.087**	**0.410**						
14-Mar-2014		**0.400**	**0.124**	**0.400**						
15-Mar-2014		**0.370**	**0.117**	**0.390**						
Remarks										

Prepared by : Lo wing yue (Surveyor)

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

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 16-Mar-2014 to 29-Mar-2014

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						
16-Mar-2014				Sunday						
17-Mar-2014		**0.390**	**0.320**	**0.400**						
18-Mar-2014		**0.400**	**0.380**	**0.380**						
19-Mar-2014		**0.380**	**0.360**	**0.420**						
20-Mar-2014		**0.420**	**0.400**	**0.420**						
21-Mar-2014		**0.450**	**0.420**	**0.480**						
22-Mar-2014		**0.480**	**0.450**	**0.470**						
23-Mar-2014				Sunday						
24-Mar-2014		**0.470**	**0.430**	**0.450**						
25-Mar-2014		**0.460**	**0.450**	**0.510**						
26-Mar-2014		**0.450**	**0.420**	**0.480**						
27-Mar-2014		**0.460**	**0.440**	**0.490**						
28-Mar-2014		**0.440**	**0.410**	**0.470**						
29-Mar-2014		**0.420**	**0.380**	**0.460**						
30-Mar-2014				Sunday						
31-Mar-2014		**0.420**	**0.290**	**0.360**						
Remarks										

Prepared by : Lo wing yue (Surveyor)

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

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Apr-2014 to 30-Apr-2014

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						
1-Apr-2014		0.41	0.30	0.32						
2-Apr-2014		0.43	0.26	0.30						
3-Apr-2014		0.39	0.25	0.29						
4-Apr-2014		0.40	0.28	0.31						
5-Apr-2014	Holiday									
6-Apr-2014	Sunday									
7-Apr-2014		0.38	0.27	0.31						
8-Apr-2014		0.37	0.25	0.28						
9-Apr-2014		0.37	0.26	0.29						
10-Apr-2014		0.39	0.28	0.27						
11-Apr-2014		0.37	0.24	0.21						
12-Apr-2014		0.35	0.19	0.18						
13-Apr-2014	Sunday									
14-Apr-2014		0.35	0.18	0.17						
15-Apr-2014		0.34	0.19	0.18						
16-Apr-2014		0.36	0.18	0.14						
17-Apr-2014		0.34	0.17	0.16						
18-Apr-2014	Holiday									
19-Apr-2014	Holiday									
20-Apr-2014	Sunday									
21-Apr-2014	Holiday									
22-Apr-2014		0.39	0.19	0.18						
23-Apr-2014		0.35	0.20	0.17						
24-Apr-2014		0.34	0.18	0.16						
25-Apr-2014		0.33	0.16	0.14						
26-Apr-2014		0.32	0.16	0.14						
27-Apr-2014	Sunday									
28-Apr-2014		0.31	0.15	0.13						
29-Apr-2014		0.30	0.13	0.11						
30-Apr-2014		0.28	0.11	0.12						

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

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-May-2014 to 31-May-2014

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						
1-May-2014						Holiday				
2-May-2014		0.27	0.12	0.13						
3-May-2014		0.26	0.13	0.12						
4-May-2014						Sunday				
5-May-2014		0.28	0.14	0.12						
6-May-2014						Holiday				
7-May-2014		0.27	0.12	0.13						
8-May-2014		0.26	0.13	0.12						
9-May-2014		0.25	0.12	0.12						
10-May-2014		0.28	0.12	0.13						
11-May-2014						Sunday				
12-May-2014		0.33	0.16	0.14						
13-May-2014		0.34	0.18	0.13						
14-May-2014		0.36	0.17	0.12						
15-May-2014		0.30	0.16	0.10						
16-May-2014		0.29	0.15	0.15						
17-May-2014		0.30	0.17	0.14						
18-May-2014						Sunday				
19-May-2014		0.31	0.16	0.13						
20-May-2014		0.30	0.18	0.14						
21-May-2014		0.29	0.17	0.15						
22-May-2014		0.31	0.16	0.13						
23-May-2014		0.34	0.15	0.12						
24-May-2014		0.31	0.16	0.13						
25-May-2014						Sunday				
26-May-2014		0.31	0.14	0.15						
27-May-2014		0.33	0.17	0.16						
28-May-2014		0.32	0.15	0.14						
29-May-2014		0.32	0.16	0.13						
30-May-2014		0.31	0.14	0.12						

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

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jun-2014 to 30-Jun-2014

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						
1-Jun-2014						Sunday				
2-Jun-2014						Holiday				
3-Jun-2014		0.26	**0.228**	0.12						
4-Jun-2014		0.26	**0.391**	0.12						
5-Jun-2014		0.28	**0.712**	0.12						
6-Jun-2014		0.23	**0.207**	0.14						
7-Jun-2014		0.25	**0.117**	0.15						
8-Jun-2014						Sunday				
9-Jun-2014		0.24	**0.354**	0.15						
10-Jun-2014		0.28	**0.117**	0.13						
11-Jun-2014		0.23	**0.087**	0.11						
12-Jun-2014		0.33	**0.097**	0.14						
13-Jun-2014		0.35	**0.206**	0.12						
14-Jun-2014		0.35	**0.097**	0.12						
15-Jun-2014						Sunday				
16-Jun-2014		0.25	**0.139**	0.15						
17-Jun-2014		0.32	**0.105**	0.13						
18-Jun-2014		0.33	**0.178**	0.12						
19-Jun-2014		0.31	**0.601**	0.13						
20-Jun-2014		0.37	**0.468**	0.16						
21-Jun-2014		0.38	**0.310**	0.25						
22-Jun-2014						Sunday				
23-Jun-2014		0.33	**0.331**	0.21						
24-Jun-2014		0.31	**0.337**	0.13						
25-Jun-2014		0.25	**0.662**	0.22						
26-Jun-2014		0.30	**0.465**	0.15						
27-Jun-2014		0.31	**0.691**	0.22						
28-Jun-2014		0.32	**0.405**	0.14						
29-Jun-2014						Sunday				
30-Jun-2014		0.31	**0.556**	0.12						

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

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jul-2014 to 30-Jul-2014

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						
1-Jul-2014	Holiday									
2-Jul-2014		0.40	0.28	0.12						
3-Jul-2014		0.18	0.31	0.32						
4-Jul-2014		0.20	0.39	0.19						
5-Jul-2014		0.33	0.71	0.11						
6-Jul-2014	Sunday									
7-Jul-2014		0.20	0.19	0.15						
8-Jul-2014		0.16	0.41	0.10						
9-Jul-2014		0.22	0.30	0.16						
10-Jul-2014		0.14	0.12	0.13						
11-Jul-2014		0.19	0.20	0.10						
12-Jul-2014		0.19	0.23	0.19						
13-Jul-2014	Sunday									
14-Jul-2014		0.21	0.20	0.29						
15-Jul-2014		0.15	0.22	0.32						
16-Jul-2014		0.14	0.18	0.20						
17-Jul-2014		0.17	0.28	0.17						
18-Jul-2014		0.13	0.31	0.32						
19-Jul-2014		0.14	0.20	0.25						
20-Jul-2014	Sunday									
21-Jul-2014		0.11	0.09	0.34						
22-Jul-2014		0.26	0.20	0.12						
23-Jul-2014		0.06	0.07	0.17						
24-Jul-2014		0.26	0.52	0.38						
25-Jul-2014		0.09	0.33	0.39						
26-Jul-2014		0.10	0.20	0.33						
27-Jul-2014	Sunday									
28-Jul-2014		0.15	0.17	0.17						
29-Jul-2014		0.14	0.08	0.15						
30-Jul-2014		0.61	0.07	0.68						
31-Jul-2014		0.07	0.61	0.20						

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

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Aug-2014 to 30-Aug-2014

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						
1-Aug-2014		0.10	0.25	0.17						
2-Aug-2014		0.17	0.19	0.45						
3-Aug-2014						Sunday				
4-Aug-2014		0.16	0.49	0.21						
5-Aug-2014		0.11	0.19	0.26						
6-Aug-2014		0.19	0.22	0.36						
7-Aug-2014		0.09	0.10	0.12						
8-Aug-2014		0.12	0.32	0.10						
9-Aug-2014		0.09	0.11	0.18						
10-Aug-2014						Sunday				
11-Aug-2014		0.11	0.36	0.19						
12-Aug-2014		0.08	0.39	0.37						
13-Aug-2014		0.11	0.15	0.23						
14-Aug-2014		0.09	0.22	0.55						
15-Aug-2014		0.15	0.39	0.20						
16-Aug-2014		0.10	0.19	0.34						
17-Aug-2014						Sunday				
18-Aug-2014		0.08	0.28	0.40						
19-Aug-2014		0.10	0.23	0.23						
20-Aug-2014		0.16	0.30	0.33						
21-Aug-2014		0.09	0.20	0.13						
22-Aug-2014		0.18	0.21	0.23						
23-Aug-2014		0.14	0.15	0.22						
24-Aug-2014						Sunday				
25-Aug-2014		0.17	0.20	0.35						
26-Aug-2014		0.16	0.21	0.31						
27-Aug-2014		0.17	0.19	0.28						
28-Aug-2014		0.10	0.20	0.20						
29-Aug-2014		0.14	0.39	0.28						
30-Aug-2014		0.12	0.11	0.18						
31-Aug-2014						Sunday				

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

恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Sep-2014 to 30-Sep-2014

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						
1-Sep-2014		0.09	0.39	0.22						
2-Sep-2014		0.11	0.21	0.43						
3-Sep-2014		0.13	0.20	0.14						
4-Sep-2014		0.09	0.25	0.20						
5-Sep-2014		0.15	0.13	0.33						
6-Sep-2014		0.08	0.20	0.20						
7-Sep-2014						Sunday				
8-Sep-2014		0.11	0.15	0.20						
9-Sep-2014						Holiday				
10-Sep-2014		0.09	0.19	0.17						
11-Sep-2014		0.08	0.30	0.19						
12-Sep-2014		0.13	0.14	0.36						
13-Sep-2014		0.14	0.16	0.25						
14-Sep-2014						Sunday				
15-Sep-2014		0.11	0.39	0.29						
16-Sep-2014		0.07	0.11	0.12						
17-Sep-2014		0.06	0.15	0.33						
18-Sep-2014		0.10	0.13	0.18						
19-Sep-2014		0.11	0.11	0.35						
20-Sep-2014		0.14	0.18	0.26						
21-Sep-2014						Sunday				
22-Sep-2014		0.10	0.12	0.20						
23-Sep-2014		0.12	0.16	0.11						
24-Sep-2014		0.08	0.21	0.20						
25-Sep-2014		0.09	0.14	0.23						
26-Sep-2014		0.08	0.27	0.34						
27-Sep-2014		0.19	0.20	0.20						
28-Sep-2014						Sunday				
29-Sep-2014		0.17	0.14	0.22						
30-Sep-2014		0.16	0.22	0.14						

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

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Oct-2014 to 30-Oct-2014

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						
1-Oct-2014	Holiday									
2-Oct-2014	Holiday									
3-Oct-2014		0.29	0.20	0.23						
4-Oct-2014		0.20	0.17	0.37						
5-Oct-2014	Sunday									
6-Oct-2014		0.17	0.13	0.18						
7-Oct-2014		0.14	0.16	0.20						
8-Oct-2014		0.19	0.16	0.15						
9-Oct-2014		0.12	0.34	0.23						
10-Oct-2014		0.22	0.11	0.28						
11-Oct-2014		0.32	0.17	0.32						
12-Oct-2014	Sunday									
13-Oct-2014		0.22	0.20	0.19						
14-Oct-2014		0.18	0.17	0.15						
15-Oct-2014		0.20	0.13	0.33						
16-Oct-2014		0.18	0.20	0.16						
17-Oct-2014		0.13	0.16	0.20						
18-Oct-2014		0.30	0.20	0.12						
19-Oct-2014	Sunday									
20-Oct-2014		0.20	0.11	0.10						
21-Oct-2014		0.14	0.09	0.13						
22-Oct-2014		0.20	0.13	0.20						
23-Oct-2014		0.24	0.14	0.45						
24-Oct-2014		0.19	0.19	0.23						
25-Oct-2014		0.16	0.20	0.14						
26-Oct-2014	Sunday									
27-Oct-2014		0.21	0.17	0.33						
28-Oct-2014		0.18	0.20	0.25						
29-Oct-2014		0.12	0.13	0.19						
30-Oct-2014		0.17	0.19	0.32						
31-Oct-2014		0.20	0.13	0.14						

Annex L

Records of Vibration Monitoring for Other Construction Works

Structual Alteration and Additions at Block 14

WYNDHAM STREET

ARBUTHNOT ROAD

HOLLYWOOD ROAD

OLD BAILEY STREET

CHANCERY LANE

Victoria Prison

Central Police Station

MONITORING ZONE A

11SW-B/R17
11SW-B/R18
11SW-B/R22
11SW-B/R805
11SW-B/R23
11SW-B/R806
11SW-B/R52
11SW-B/R24
11SW-B/R53
11SW-B/R176
11SW-B/R19
11SW-B/R174
11SW-B/R175
11SW-B/R55
11SW-B/R54
11SW-B/R177
11SW-B/R178

The Centrium
Shiu King Court
Ovolo
Chinachem Hollywood Centre
Garfield Commercial Building
Hanbla House
Wing Lee Building
Winning House
Hollywood Commercial House
No Foot Building
Villa Serene
Cambridge Villa
Chancery Mansion
Avon Court
Chancery House
Tung Yuen Building
Podium

LEGEND

- EXISTING FRESH WATER MAIN
- EXISTING SALT WATER MAIN
- EXISTING STREET LIGHTING NO. 33488-A1
- EXISTING STREET LIGHTING CABLE
- EXISTING GAS MAIN
- EXISTING HV ELECTRICITY CABLE
- EXISTING LV ELECTRICITY CABLE
- EXISTING TELECOMMUNICATION DUCT (HUTCHISON GLOBAL COMMUNICATIONS LIMITED)
- EXISTING STORMWATER DRAIN
- EXISTING FOUL SEWER
- PROPOSED FOUL SEWER
- SITE BOUNDARY
- EXISTING RETAINING WALL
- DH1(S,P) EXISTING DRILLHOLE WITH STANDPIPE/PIEZOMETER
- BS1-1/BT1-1 PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER
- RS174-1/RT174-1 PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER
- IN1-1 PROPOSED INCLINOMETER TO BE BUILT IN BORED PILE WALL OR PIPE PILE WALL
- GS1 PROPOSED GROUND SETTLEMENT POINTS
- UT1 PROPOSED UTILITY MONITORING POINTS
- VM1-1 PROPOSED VIBRATION MONITORING POINTS
- ADH1(S/P) PROPOSED ADDITIONAL DRILLHOLE

W.O. Ref. No. 22/3067/11 (BLKS1, 14&15) (4Q) (S)

P.S.Q. Ref. No.

No.	Description	Date	Approved
–	BD SUBMISSION (50)	12/11	JS
A	BD SUBMISSION (01)	03/12	JS
B	BD SUBMISSION (12)	03/12	JS
C	BD SUBMISSION RW BATCH 1	03/12	JS
D	FOR INFORMATION (50)	03/12	JS
E	BD SUBMISSION (51)	05/12	JS
F	BD SUBMISSION (04)	05/12	JS
G	BD SUBMISSION (03)	05/12	JS
H	BD SUBMISSION (14)	05/12	JS

Note: This plan has been processed as a submitted check prints under the computerised processing system as promulgated in PNAP ADM-15. The duties of the authorised person, registered structural engineer and/or registered professional engineer consultants as specified under section 4(2)(a) and the provisions of section 14(2)(e) of the Buildings Ordinance are of good practice reference in this regard.

Plan Approved
Ng Kin-shing
Chief Structural Engineer
for BUILDING AUTHORITY
- 9 AUG 2012

Key Plan 索引圖

BD SUBMISSION
Drawing Status 製圖狀況

- This drawing and the contents hereon are the copyright of relevant consultants.
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- Check and verify all dimensions on site.
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- Notify any relevant consultants' discrepancy of any discrepancy found herein.

Client 業主
The Jockey Club CPS Limited

Design Consultant
HERZOG & DE MEURON

Conservation Architect

Executive Architect / AP
ROCCO

Structural Engineer / RSE
ARUP

E & M Engineer
JRP

Project 項目
CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT

Drawing Title 圖名
MONITORING LAYOUT PLAN

Scale 比例	Drawn 製圖	Checked 核對
1:300@A1	K.C.Liu	AL

Drawing No. 圖號 00-OAP209674-G-001 Revision 修訂 H

EWAN KIN 顧
Chief Engineer
REGISTERED STRUCTURAL ENGINEER

Cad file : 00-OAP209674-G-001.dwg

恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

(Block 14 Structural A&A)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 20-Oct-2013 to 2-Nov-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					
20-Oct-2013						Sunday				
21-Oct-2013		0.25	0.25	0.52	0.85					
22-Oct-2013		0.27	0.45	0.13	0.26					
23-Oct-2013		0.46	0.79	0.25	0.57					
24-Oct-2013		0.51	0.14	0.16	0.17					
25-Oct-2013		0.15	0.25	0.48	0.54					
26-Oct-2013		0.48	0.75	0.98	0.27					
27-Oct-2013						Sunday				
28-Oct-2013		0.48	0.35	0.64	0.20					
29-Oct-2013		0.61	0.18	0.19	0.21					
30-Oct-2013		0.23	0.22	0.36	0.35					
31-Oct-2013		0.25	0.25	0.40	0.19					
1-Nov-2013		0.34	0.29	0.18	0.37					
2-Nov-2013		0.25	0.25	1.10	0.16					
Remarks										

Prepared by : Lo wing yue (Surveyor)

恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

(Block 14 Structural A&A)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 3-Nov-2013 to 16-Nov-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					
3-Nov-2013						Sunday				
4-Nov-2013		0.26	0.25	0.68	0.22					
5-Nov-2013		0.37	0.27	0.42	0.18					
6-Nov-2013		0.32	0.30	0.30	0.99					
7-Nov-2013		0.19	0.23	0.24	0.23					
8-Nov-2013		0.24	0.29	0.38	0.21					
9-Nov-2013		0.29	0.41	0.15	0.28					
10-Nov-2013						Sunday				
11-Nov-2013		0.17	0.20	0.19	0.18					
12-Nov-2013		0.28	0.28	0.20	0.19					
13-Nov-2013		0.18	0.12	0.16	0.30					
14-Nov-2013		0.38	0.29	0.21	0.22					
15-Nov-2013		0.21	0.15	0.24	0.15					
16-Nov-2013		0.83	0.25	0.18	0.13					
Remarks										

Prepared by : Lo wing yue (Surveyor)

恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

(Block 14 Structural A&A)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 17-Nov-2013 to 30-Nov-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					
17-Nov-2013						Sunday				
18-Nov-2013		0.28	0.31	0.17	0.40					
19-Nov-2013		0.18	0.25	0.25	0.25					
20-Nov-2013		0.38	0.12	0.46	0.20					
21-Nov-2013		0.00	0.00	0.00	0.00					
22-Nov-2013		0.00	0.00	0.00	0.00					
23-Nov-2013		0.00	0.00	0.00	0.00					
24-Nov-2013						Sunday				
25-Nov-2013		0.00	0.00	0.00	0.00					
26-Nov-2013		0.00	0.00	0.00	0.00					
27-Nov-2013		0.00	0.00	0.00	0.00					
28-Nov-2013		0.00	0.00	0.00	0.00					
29-Nov-2013		0.00	0.00	0.00	0.00					
30-Nov-2013		0.00	0.00	0.00	0.00					
Remarks										

Prepared by : Lo wing yue (Surveyor)

恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

(Block 14 Structural A&A)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Dec-2013 to 14-Dec-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					
1-Dec-2013						Sunday				
2-Dec-2013		0.00	0.00	0.00	0.00					
3-Dec-2013		0.00	0.00	0.00	0.00					
4-Dec-2013		0.00	0.00	0.00	0.00					
5-Dec-2013		0.00	0.00	0.00	0.00					
6-Dec-2013		0.00	0.00	0.00	0.00					
7-Dec-2013		0.00	0.00	0.00	0.00					
8-Dec-2013						Sunday				
9-Dec-2013		0.00	0.00	0.00	0.00					
10-Dec-2013		0.00	0.00	0.00	0.00					
11-Dec-2013		0.00	0.00	0.00	0.00					
12-Dec-2013		0.00	0.00	0.00	0.00					
13-Dec-2013		0.00	0.00	0.00	0.00					
14-Dec-2013		0.00	0.00	0.00	0.00					
Remarks										

Prepared by : Lo wing yue (Surveyor)

恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

(Block 14 Structural A&A)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 15-Dec-2013 to 28-Dec-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					
15-Dec-2013	Sunday									
16-Dec-2013		0.00	0.00	0.00	0.00					
17-Dec-2013		0.00	0.00	0.00	0.00					
18-Dec-2013		0.00	0.00	0.00	0.00					
19-Dec-2013		0.00	0.00	0.00	0.00					
20-Dec-2013		0.00	0.00	0.00	0.00					
21-Dec-2013		0.00	0.00	0.00	0.00					
22-Dec-2013	Sunday									
23-Dec-2013		0.00	0.00	0.00	0.00					
24-Dec-2013		0.00	0.00	0.00	0.00					
25-Dec-2013	Public Holiday									
26-Dec-2013	Public Holiday									
27-Dec-2013		0.00	0.00	0.00	0.00					
28-Dec-2013		0.00	0.00	0.00	0.00					
Remarks										

Prepared by : Lo wing yue (Surveyor)

恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

(Block 14 Structural A&A)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 29-Dec-2013 to 11-Jan-2014

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					
29-Dec-2013	Sunday									
30-Dec-2013		0.00	0.00	0.00	0.00					
31-Dec-2013		0.00	0.00	0.00	0.00					
1-Jan-2014	Public Holiday									
2-Jan-2014		0.00	0.00	0.00	0.00					
3-Jan-2014		0.00	0.00	0.00	0.00					
4-Jan-2014		0.00	0.00	0.00	0.00					
5-Jan-2014	Sunday									
6-Jan-2014		0.00	0.00	0.00	0.00					
7-Jan-2014		0.00	0.00	0.00	0.00					
8-Jan-2014		0.00	0.00	0.00	0.00					
9-Jan-2014		0.00	0.00	0.00	0.00					
10-Jan-2014		0.00	0.00	0.00	0.00					
11-Jan-2014		0.00	0.00	0.00	0.00					
Remarks										

Prepared by : Lo wing yue (Surveyor)

恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

(Block 14 Structural A&A)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 12-Jan-2014 to 25-Jan-2014

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					
12-Jan-2014	Sunday									
13-Jan-2014		0.00	0.00	0.00	0.00					
14-Jan-2014		0.00	0.00	0.00	0.00					
15-Jan-2014		0.00	0.00	0.00	0.00					
16-Jan-2014		0.00	0.00	0.00	0.00					
17-Jan-2014		0.00	0.00	0.00	0.00					
18-Jan-2014		0.00	0.00	0.00	0.00					
19-Jan-2014	Sunday									
20-Jan-2014		0.00	0.00	0.00	0.00					
21-Jan-2014		0.00	0.00	0.00	0.00					
22-Jan-2014		0.08	0.09	0.11	0.08					
23-Jan-2014		0.12	0.12	0.12	0.18					
24-Jan-2014		0.09	0.17	0.15	0.23					
25-Jan-2014		0.10	0.15	0.18	0.21					
Remarks										

Prepared by : Lo wing yue (Surveyor)

恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

(Block 14 Structural A&A)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 26-Jan-2014 to 8-Feb-2014

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					
26-Jan-2014	Sunday									
27-Jan-2014		0.10	0.18	0.26	0.27					
28-Jan-2014		0.15	0.16	0.26	0.24					
29-Jan-2014		0.18	0.18	0.27	0.26					
30-Jan-2014										
31-Jan-2014										
1-Feb-2014										
2-Feb-2014	Sunday									
3-Feb-2014										
4-Feb-2014		0.19	0.19	0.26	0.23					
5-Feb-2014		0.21	0.21	0.25	0.25					
6-Feb-2014										
7-Feb-2014										
8-Feb-2014										
Remarks										

Prepared by : Lo wing yue (Surveyor)

恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

(Block 14 Structural A&A)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 2-Feb-2014 to 15-Feb-2014

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					
2-Feb-2014	Sunday									
3-Feb-2014	Public Holiday									
4-Feb-2014	Site Closed									
5-Feb-2014	Site Closed									
6-Feb-2014		0.180	0.240	0.350	0.280					
7-Feb-2014		0.170	0.230	0.310	0.260					
8-Feb-2014		0.200	0.180	0.320	0.210					
9-Feb-2014	Sunday									
10-Feb-2014		0.130	0.220	0.370	0.240					
11-Feb-2014		0.200	0.210	0.480	0.230					
12-Feb-2014		0.220	0.220	0.520	0.290					
13-Feb-2014		0.250	0.220	0.540	0.290					
14-Feb-2014		0.280	0.250	0.560	0.300					
15-Feb-2014		0.290	0.270	0.580	0.280					
Remarks										

Prepared by : Lo wing yue (Surveyor)

恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

(Block 14 Structural A&A)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 16-Feb-2014 to 1-Mar-2014

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					
16-Feb-2014	Sunday									
17-Feb-2014		**0.270**	**0.260**	**0.610**	**0.290**					
18-Feb-2014		**0.260**	**0.260**	**0.670**	**0.310**					
19-Feb-2014		**0.280**	**0.290**	**0.690**	**0.280**					
20-Feb-2014		**0.300**	**0.280**	**0.700**	**0.300**					
21-Feb-2014		**0.250**	**0.270**	**0.670**	**0.290**					
22-Feb-2014		**0.220**	**0.210**	**0.700**	**0.350**					
23-Feb-2014	Sunday									
24-Feb-2014		**0.230**	**0.230**	**0.690**	**0.320**					
25-Feb-2014		**0.230**	**0.320**	**0.750**	**0.290**					
26-Feb-2014		**0.300**	**0.310**	**0.790**	**0.310**					
27-Feb-2014		**0.260**	**0.300**	**0.790**	**0.320**					
28-Feb-2014		**0.240**	**0.300**	**0.810**	**0.290**					
1-Mar-2014		**0.290**	**0.270**	**0.780**	**0.310**					
Remarks										

Prepared by : Lo wing yue (Surveyor)

恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

(Block 14 Structural A&A)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 2-Mar-2014 to 15-Mar-2014

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					
2-Mar-2014	Sunday									
3-Mar-2014		**0.330**	**0.220**	**0.820**	**0.350**					
4-Mar-2014		**0.320**	**0.230**	**0.800**	**0.380**					
5-Mar-2014		**0.280**	**0.280**	**0.780**	**0.370**					
6-Mar-2014		**0.300**	**0.260**	**0.800**	**0.360**					
7-Mar-2014		**0.260**	**0.260**	**0.800**	**0.340**					
8-Mar-2014		**0.230**	**0.300**	**0.820**	**0.370**					
9-Mar-2014	Sunday									
10-Mar-2014		**0.240**	**0.250**	**0.520**	**0.410**					
11-Mar-2014		**0.240**	**0.290**	**0.550**	**0.380**					
12-Mar-2014		**0.310**	**0.310**	**0.500**	**0.360**					
13-Mar-2014		**0.280**	**0.310**	**0.490**	**0.390**					
14-Mar-2014		**0.300**	**0.330**	**0.520**	**0.400**					
15-Mar-2014		**0.330**	**0.320**	**0.560**	**0.370**					
Remarks										

Prepared by : Lo wing yue (Surveyor)

恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

(Block 14 Structural A&A)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 16-Mar-2014 to 29-Mar-2014

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					
16-Mar-2014						Sunday				
17-Mar-2014		**0.340**	**0.220**	**0.550**	**0.390**					
18-Mar-2014		**0.310**	**0.240**	**0.560**	**0.400**					
19-Mar-2014		**0.290**	**0.220**	**0.550**	**0.380**					
20-Mar-2014		**0.310**	**0.250**	**0.590**	**0.420**					
21-Mar-2014		**0.250**	**0.270**	**0.650**	**0.450**					
22-Mar-2014		**0.240**	**0.310**	**0.620**	**0.480**					
23-Mar-2014						Sunday				
24-Mar-2014		**0.210**	**0.150**	**0.160**	**0.470**					
25-Mar-2014		**0.220**	**0.180**	**0.170**	**0.460**					
26-Mar-2014		**0.250**	**0.160**	**0.180**	**0.450**					
27-Mar-2014		**0.240**	**0.170**	**0.190**	**0.430**					
28-Mar-2014		**0.250**	**0.160**	**0.180**	**0.450**					
29-Mar-2014		**0.240**	**0.170**	**0.190**	**0.430**					
30-Mar-2014						Sunday				
31-Mar-2014		**0.240**	**0.160**	**0.150**	**0.430**					
Remarks										

Prepared by : Lo wing yue (Surveyor)

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

(Block 14 Structural A&A)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Apr-2014 to 30-Apr-2014

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					
1-Apr-2014		0.25	0.12	0.18	0.48					
2-Apr-2014		0.23	0.11	0.16	0.45					
3-Apr-2014		0.25	0.12	0.18	0.48					
4-Apr-2014		0.23	0.14	0.17	0.46					
5-Apr-2014	Holiday									
6-Apr-2014	Sunday									
7-Apr-2014		0.25	0.16	0.18	0.45					
8-Apr-2014		0.23	0.16	0.20	0.43					
9-Apr-2014		0.22	0.14	0.18	0.42					
10-Apr-2014		0.24	0.11	0.16	0.41					
11-Apr-2014		0.21	0.13	0.14	0.40					
12-Apr-2014		0.20	0.10	0.13	0.39					
13-Apr-2014	Sunday									
14-Apr-2014		0.19	0.12	0.11	0.37					
15-Apr-2014		0.20	0.14	0.13	0.36					
16-Apr-2014		0.18	0.11	0.13	0.35					
17-Apr-2014		0.19	0.11	0.15	0.32					
18-Apr-2014	Holiday									
19-Apr-2014	Holiday									
20-Apr-2014	Sunday									
21-Apr-2014	Holiday									
22-Apr-2014		0.21	0.15	0.19	0.40					
23-Apr-2014		0.22	0.14	0.17	0.41					
24-Apr-2014		0.20	0.13	0.18	0.42					
25-Apr-2014		0.19	0.12	0.17	0.40					
26-Apr-2014		0.21	0.12	0.17	0.41					
27-Apr-2014	Sunday									
28-Apr-2014		0.22	0.10	0.15	0.36					
29-Apr-2014		0.19	0.11	0.16	0.37					
30-Apr-2014		0.21	0.09	0.14	0.35					

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

(Block 14 Structural A&A)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-May-2014 to 31-May-2014

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					
1-May-2014						Holiday				
2-May-2014		0.18	0.10	0.13	0.38					
3-May-2014		0.17	0.11	0.15	0.37					
4-May-2014						Sunday				
5-May-2014		0.23	0.15	0.16	0.40					
6-May-2014						Holiday				
7-May-2014		0.23	0.13	0.15	0.39					
8-May-2014		0.22	0.12	0.15	0.38					
9-May-2014		0.22	0.13	0.16	0.35					
10-May-2014		0.21	0.13	0.14	0.36					
11-May-2014						Sunday				
12-May-2014		0.23	0.11	0.13	0.35					
13-May-2014		0.24	0.12	0.14	0.36					
14-May-2014		0.25	0.13	0.15	0.34					
15-May-2014		0.23	0.10	0.14	0.35					
16-May-2014		0.21	0.11	0.13	0.36					
17-May-2014		0.20	0.10	0.16	0.38					
18-May-2014						Sunday				
19-May-2014		0.23	0.14	0.16	0.40					
20-May-2014		0.22	0.13	0.18	0.35					
21-May-2014		0.24	0.12	0.17	0.36					
22-May-2014		0.25	0.15	0.16	0.33					
23-May-2014		0.23	0.14	0.15	0.34					
24-May-2014		0.22	0.13	0.14	0.32					
25-May-2014						Sunday				
26-May-2014		0.23	0.13	0.13	0.35					
27-May-2014		0.22	0.14	0.15	0.34					
28-May-2014		0.21	0.12	0.14	0.35					
29-May-2014		0.22	0.11	0.13	0.33					
30-May-2014		0.19	0.13	0.14	0.31					

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

(Block 14 Structural A&A)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jun-2014 to 30-Jun-2014

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					
1-Jun-2014						Sunday				
2-Jun-2014						Holiday				
3-Jun-2014		0.22	0.13	0.18	0.35					
4-Jun-2014		0.24	0.12	0.17	0.36					
5-Jun-2014		0.24	0.13	0.15	0.34					
6-Jun-2014		0.22	0.12	0.13	0.32					
7-Jun-2014		0.21	0.11	0.12	0.32					
8-Jun-2014						Sunday				
9-Jun-2014		0.20	0.15	0.40	0.33					
10-Jun-2014		0.24	0.14	0.45	0.34					
11-Jun-2014		0.25	0.14	0.44	0.39					
12-Jun-2014		0.19	0.17	0.46	0.30					
13-Jun-2014		0.19	0.12	0.45	0.35					
14-Jun-2014		0.21	0.13	0.44	0.32					
15-Jun-2014						Sunday				
16-Jun-2014		0.21	0.11	0.43	0.36					
17-Jun-2014		0.20	0.10	0.42	0.38					
18-Jun-2014		0.23	0.14	0.44	0.34					
19-Jun-2014		0.23	0.14	0.43	0.40					
20-Jun-2014		0.22	0.13	0.42	0.35					
21-Jun-2014		0.24	0.12	0.42	0.36					
22-Jun-2014						Sunday				
23-Jun-2014		0.23	0.14	0.42	0.34					
24-Jun-2014		0.22	0.13	0.41	0.32					
25-Jun-2014		0.23	0.14	0.38	0.34					
26-Jun-2014		0.23	0.13	0.36	0.35					
27-Jun-2014		0.22	0.14	0.34	0.34					
28-Jun-2014		0.21	0.12	0.37	0.35					
29-Jun-2014						Sunday				
30-Jun-2014		0.25	0.16	0.35	0.30					

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

(Block 14 Structural A&A)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jul-2014 to 30-Jul-2014

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					
1-Jul-2014	Holiday									
2-Jul-2014		0.24	0.10	0.35	0.40					
3-Jul-2014		0.18	0.19	0.19	0.18					
4-Jul-2014		0.20	0.29	0.30	0.20					
5-Jul-2014		0.45	0.23	0.27	0.33					
6-Jul-2014	Holiday									
7-Jul-2014		0.29	0.33	0.17	0.20					
8-Jul-2014		0.49	0.34	0.38	0.16					
9-Jul-2014		0.36	0.26	0.18	0.22					
10-Jul-2014		0.19	0.38	0.22	0.14					
11-Jul-2014		0.15	0.10	0.10	0.19					
12-Jul-2014		0.26	0.20	0.12	0.19					
13-Jul-2014	Holiday									
14-Jul-2014		0.39	0.63	0.17	0.21					
15-Jul-2014		0.21	0.21	0.11	0.15					
16-Jul-2014		0.12	0.42	0.18	0.14					
17-Jul-2014		0.34	0.26	0.20	0.17					
18-Jul-2014		0.20	0.31	0.17	0.13					
19-Jul-2014		0.17	0.20	0.12	0.14					
20-Jul-2014	Holiday									
21-Jul-2014		0.62	0.36	0.66	0.11					
22-Jul-2014		0.09	0.09	0.34	0.26					
23-Jul-2014		0.18	0.07	0.07	0.06					
24-Jul-2014		0.18	0.07	0.07	0.06					
25-Jul-2014		0.11	0.22	0.10	0.09					
26-Jul-2014		0.10	0.30	0.09	0.10					
27-Jul-2014	Holiday									
28-Jul-2014		0.15	0.52	0.21	0.12					
29-Jul-2014		0.08	0.09	0.09	0.14					
30-Jul-2014		0.53	0.08	0.48	0.61					
31-Jul-2014		0.20	0.11	0.09	0.07					

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

(Block 14 Structural A&A)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Aug-2014 to 30-Aug-2014

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					
1-Aug-2014		0.15	0.26	0.11	0.10					
2-Aug-2014		0.18	0.65	0.08	0.17					
3-Aug-2014	Holiday									
4-Aug-2014		0.19	0.31	0.20	0.16					
5-Aug-2014		0.10	0.28	0.31	0.11					
6-Aug-2014		0.33	0.20	0.20	0.19					
7-Aug-2014		0.12	0.63	0.09	0.09					
8-Aug-2014		0.09	0.13	0.15	0.12					
9-Aug-2014		0.11	0.30	0.13	0.09					
10-Aug-2014	Holiday									
11-Aug-2014		0.17	0.13	0.09	0.11					
12-Aug-2014		0.17	0.36	0.14	0.08					
13-Aug-2014		0.19	0.19	0.20	0.11					
14-Aug-2014		0.34	0.26	0.12	0.09					
15-Aug-2014		0.14	0.35	0.15	0.15					
16-Aug-2014		0.11	0.12	0.10	0.10					
17-Aug-2014	Holiday									
18-Aug-2014		0.34	0.16	0.12	0.08					
19-Aug-2014		0.21	0.46	0.09	0.10					
20-Aug-2014		0.17	0.32	0.10	0.16					
21-Aug-2014		0.12	0.20	0.08	0.09					
22-Aug-2014		0.22	0.29	0.15	0.18					
23-Aug-2014		0.16	0.39	0.10	0.14					
24-Aug-2014	Holiday									
25-Aug-2014		0.32	0.29	0.09	0.17					
26-Aug-2014		0.27	0.22	0.12	0.16					
27-Aug-2014		0.23	0.23	0.08	0.17					
28-Aug-2014		0.14	0.63	0.10	0.10					
29-Aug-2014		0.15	0.40	0.11	0.14					
30-Aug-2014		0.16	0.32	0.18	0.12					
31-Aug-2014	Holiday									

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

(Block 14 Structural A&A)

Monitoring Check Pts.	Trigger Levels		
	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

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Sep-2014 to 30-Sep-2014

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					
1-Sep-2014		0.26	0.24	0.10	0.09					
2-Sep-2014		0.14	0.23	0.13	0.11					
3-Sep-2014		0.17	0.19	0.10	0.13					
4-Sep-2014		0.35	0.29	0.07	0.09					
5-Sep-2014		0.17	0.20	0.10	0.15					
6-Sep-2014		0.26	0.43	0.09	0.08					
7-Sep-2014					Sunday					
8-Sep-2014		0.26	0.15	0.13	0.20					
9-Sep-2014					Holiday					
10-Sep-2014		0.17	0.37	0.09	0.17					
11-Sep-2014		0.34	0.29	0.10	0.08					
12-Sep-2014		0.13	0.22	0.08	0.13					
13-Sep-2014		0.17	0.24	0.12	0.14					
14-Sep-2014					Sunday					
15-Sep-2014		0.32	0.52	0.10	0.11					
16-Sep-2014		0.15	0.20	0.09	0.07					
17-Sep-2014		0.17	0.18	0.12	0.06					
18-Sep-2014		0.22	0.16	0.14	0.10					
19-Sep-2014		0.12	0.32	0.10	0.11					
20-Sep-2014		0.12	0.18	0.11	0.14					
21-Sep-2014					Sunday					
22-Sep-2014		0.12	0.19	0.10	0.10					
23-Sep-2014		0.18	0.14	0.15	0.12					
24-Sep-2014		0.20	0.29	0.12	0.08					
25-Sep-2014		0.22	0.15	0.18	0.09					
26-Sep-2014		0.14	0.20	0.10	0.08					
27-Sep-2014		0.11	0.20	0.34	0.19					
28-Sep-2014					Sunday					
29-Sep-2014		0.16	0.25	0.21	0.17					
30-Sep-2014		0.09	0.16	0.32	0.16					

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

(Block 14 Structural A&A)

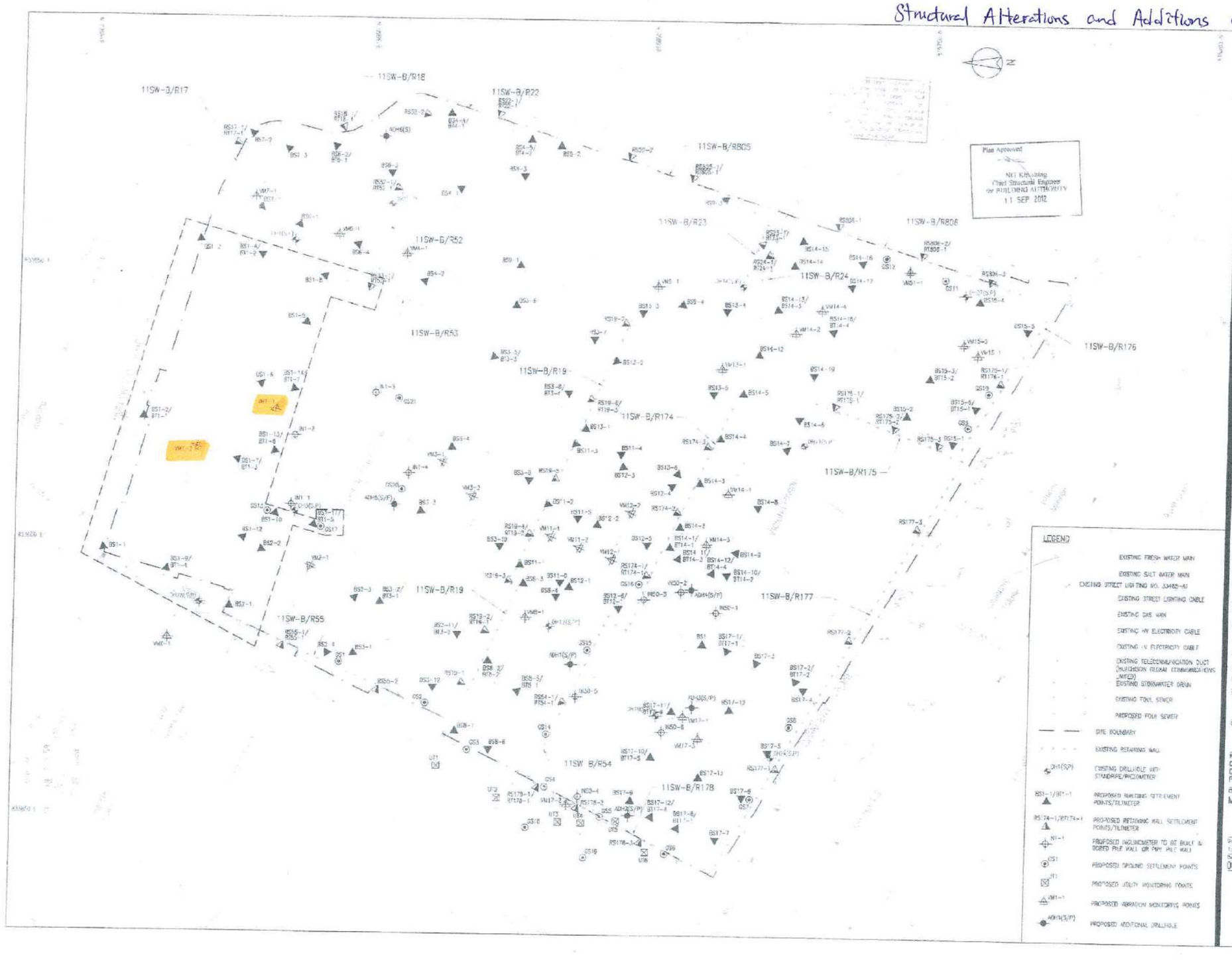
Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s
# Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Oct-2014 to 30-Oct-2014

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					
1-Oct-2014	Holiday									
2-Oct-2014	Holiday									
3-Oct-2014		0.17	0.13	0.15	0.29					
4-Oct-2014		0.20	0.15	0.20	0.20					
5-Oct-2014	Sunday									
6-Oct-2014		0.22	0.14	0.22	0.17					
7-Oct-2014		0.19	0.19	0.48	0.14					
8-Oct-2014		0.34	0.23	0.29	0.19					
9-Oct-2014		0.14	0.16	0.17	0.12					
10-Oct-2014		0.11	0.29	0.12	0.22					
11-Oct-2014		0.17	0.20	0.30	0.32					
12-Oct-2014	Sunday									
13-Oct-2014		0.35	0.13	0.24	0.22					
14-Oct-2014		0.20	0.11	0.30	0.18					
15-Oct-2014		0.11	0.20	0.30	0.20					
16-Oct-2014		0.17	0.35	0.19	0.18					
17-Oct-2014		0.19	0.18	0.11	0.13					
18-Oct-2014		0.26	0.12	0.29	0.30					
19-Oct-2014	Sunday									
20-Oct-2014		0.11	0.15	0.31	0.20					
21-Oct-2014		0.17	0.18	0.20	0.14					
22-Oct-2014		0.31	0.21	0.17	0.20					
23-Oct-2014		0.16	0.20	0.26	0.24					
24-Oct-2014		0.13	0.14	0.19	0.19					
25-Oct-2014		0.19	0.17	0.27	0.16					
26-Oct-2014	Sunday									
27-Oct-2014		0.23	0.14	0.19	0.21					
28-Oct-2014		0.15	0.19	0.17	0.18					
29-Oct-2014		0.32	0.17	0.36	0.12					
30-Oct-2014		0.17	0.21	0.20	0.17					
31-Oct-2014		0.13	0.17	0.20	0.20					

Structural Alterations and Additions at Block 1.



No.	Description	Date	Approved by
–	BD SUBMISSION (S0)	12/11	JS
A	BD SUBMISSION (01)	03/12	JS
H	BD SUBMISSION (1/)	03/12	JS
C	BD SUBMISSION (W RFI2)	03/12	JS
D	FOR INFORMATION (S0)	05/12	JS
E	BD SUBMISSION (S1)	05/12	JS
F	BD SUBMISSION (04)	05/12	JS
G	BD SUBMISSION (03)	05/12	JS
H	BD SUBMISSION (14)	05/12	JS
J	BD SUBMISSION (W RFI24)	06/12	JS
K	BD SUBMISSION (05807)	07/12	JS
L	BD SUBMISSION (01)(H2)	07/12	JS

Key Plan 索引图

BD SUBMISSION

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Client 业主

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Conservation Architect

Executive Architect / AP
ROCCO

Structural Engineer / RSE
ARUP

M & E Engineer
JRP

Project 项目
CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT

Drawing Title 图名
MONITORING LAYOUT PLAN

Scale 比例	Drawn by 绘图	Standard 标准
1:300@A1	K.C.Lui	AL

Drawing No. 图号
00-OAP209674-G-C01 L

Structural Additions and Alterations at Block 11

B.D. Ref. No.
22-3/3066/10/BLK11 (HQ) (5)
F.S.D. Ref. No.

Revision/Submission

No.	Description	Date	Approved
-	BD SUBMISSION (50)	12/11	JS
A	BD SUBMISSION (01)	03/12	JS
B	BD SUBMISSION (17)	03/12	JS
C	BD SUBMISSION RW BATCH 1	03/12	JS
D	FOR INFROMATION (50)	03/12	JS
E	BD SUBMISSION (51)	05/12	JS
F	BD SUBMISSION (04)	05/12	JS
G	BD SUBMISSION (03)	05/12	JS
H	BD SUBMISSION (14)	05/12	JS
J	BD SUBMISSION RW BATCH 2	06/12	JS
K	BD SUBMISSION (06&07)	07/12	JS
L	BD SUBMISSION (01)(HQ)	07/12	JS
M	BD SUBMISSION (11)	07/12	JS

Plan Approved
CHIONG Kam-yuen, Jacky
Chief Structural Engineer
for BUILDING AUTHORITY
- 3 OCT 2012

Key Plan 索引圖

BD SUBMISSION
Drawing Status 製圖狀況

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Client 業主
The Jockey Club CPS Limited

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HERZOG & DE MEURON

Conservation Architect
PURCELL MILLER TRITTON

Executive Architect / AP
ROCCO

Structural Engineer / RSE
ARUP

E & M Engineer
JRP

Project 項目
CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT

Drawing Title 圖名
MONITORING LAYOUT PLAN

Scale 比例 1:300@A1
Drawn K.C.Lai
Checked 校對 AL
Drawing No. 00-0AP209674-G-001
Revision 修改版 M

Cad file : 00-0AP209674-G-001.dwg

Gammon

Vibration Record of Block 1

POINT	VM1-1	VM1-2
Date	mm/s	mm/s
01-Nov-13	**0.147**	**0.108**
02-Nov-13	**0.214**	**0.139**
03-Nov-13	**Sunday**	
04-Nov-13	**0.177**	**0.103**
05-Nov-13	**0.102**	**0.159**
06-Nov-13	**0.321**	**0.565**
07-Nov-13	**0.519**	**0.518**
08-Nov-13	**0.196**	**0.169**
09-Nov-13	**0.211**	**0.154**
10-Nov-13	**Sunday**	
11-Nov-13	**0.325**	**0.563**
12-Nov-13	**1.300**	**0.244**
13-Nov-13	**0.325**	**0.563**
14-Nov-13	**0.103**	**0.104**
15-Nov-13	**0.206**	**0.151**
16-Nov-13	**0.241**	**0.773**
17-Nov-13	**Sunday**	
18-Nov-13	**0.933**	**0.209**
19-Nov-13	**0.262**	**0.388**
20-Nov-13	**0.379**	**0.341**
21-Nov-13	**0.437**	**0.307**
22-Nov-13	**0.102**	**0.318**
23-Nov-13	**0.127**	**0.177**
24-Nov-13	**Sunday**	
25-Nov-13	**0.429**	**0.135**
26-Nov-13	**0.983**	**0.166**
27-Nov-13	**0.187**	**0.252**
28-Nov-13	**0.380**	**0.145**
29-Nov-13	**0.221**	**0.177**
30-Nov-13	**0.529**	**0.398**

Gammon

Vibration Record of Block 11

POINT	VM11-1	VM11-2
Date	mm/s	mm/s
01-Nov-13	**0.482**	**0.181**
02-Nov-13	**0.520**	**0.256**
03-Nov-13	**Sunday**	
04-Nov-13	**0.113**	**0.120**
05-Nov-13	**0.264**	**0.129**
06-Nov-13	**0.963**	**0.940**
07-Nov-13	**0.201**	**0.151**
08-Nov-13	**0.091**	**0.122**
09-Nov-13	**0.132**	**0.116**
10-Nov-13	**Sunday**	
11-Nov-13	**0.083**	**0.086**
12-Nov-13	**0.243**	**0.337**
13-Nov-13	**0.083**	**0.086**
14-Nov-13	**0.146**	**0.176**
15-Nov-13	**0.341**	**0.495**
16-Nov-13	**0.122**	**0.087**
17-Nov-13	**Sunday**	
18-Nov-13	**0.268**	**1.080**
19-Nov-13	**0.166**	**0.108**
20-Nov-13	**0.097**	**0.137**
21-Nov-13	**0.087**	**0.221**
22-Nov-13	**0.116**	**0.119**
23-Nov-13	**0.201**	**0.263**
24-Nov-13	**Sunday**	
25-Nov-13	**0.129**	**0.225**
26-Nov-13	**0.081**	**0.105**
27-Nov-13	**0.116**	**0.151**
28-Nov-13	**0.104**	**0.169**
29-Nov-13	**0.128**	**0.113**
30-Nov-13	**0.213**	**0.117**

Vibration Monitoring Record of December (Block 1, Block 11 and Parade Ground)

	Block 1		Block 11		Parade Ground				
POINT	VM1-1	VM1-2	VM11-1	VM11-2	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
1-Dec-13	SUNDAY								
2-Dec-13	0.354	0.378	0.147	0.186	0.354	0.378	0.125	0.091	0.125
3-Dec-13	0.106	0.262	0.098	0.163	0.106	0.262	0.239	0.132	0.146
4-Dec-13	0.290	0.306	0.328	0.207	0.290	0.306	0.718	0.245	0.111
5-Dec-13	0.097	0.246	0.125	0.151	0.097	0.246	0.175	0.081	0.150
6-Dec-13	0.098	0.103	0.186	0.243	0.098	0.103	0.207	0.117	0.279
7-Dec-13	0.100	0.104	0.120	0.132	0.100	0.104	0.129	0.436	0.316
8-Dec-13	SUNDAY								
9-Dec-13	0.217	0.129	0.282	0.322	0.217	0.129	0.095	0.091	0.083
10-Dec-13	0.154	0.117	0.239	0.132	0.154	0.117	0.081	0.153	0.270
11-Dec-13	0.462	0.272	0.129	0.147	0.462	0.272	0.182	0.206	0.241
12-Dec-13	0.160	0.171	0.252	0.125	0.160	0.171	0.223	0.182	0.113
13-Dec-13	0.146	0.102	0.163	0.250	0.146	0.102	0.207	0.216	0.093
14-Dec-13	0.323	0.773	0.178	0.147	0.323	0.773	0.127	0.135	0.137
15-Dec-13	SUNDAY								
16-Dec-13	0.176	0.184	0.086	0.081	0.176	0.184	0.143	0.370	0.097
17-Dec-13	0.104	0.086	0.087	0.117	0.104	0.086	0.086	0.124	0.142
18-Dec-13	0.128	0.241	0.223	0.256	0.128	0.241	0.160	0.102	0.117
19-Dec-13	0.353	0.105	0.230	0.496	0.353	0.105	0.112	0.136	0.256
20-Dec-13	0.118	0.168	0.157	0.172	0.118	0.168	0.097	0.312	0.167
21-Dec-13	0.162	0.203	0.086	0.117	0.162	0.203	0.135	0.183	0.142
22-Dec-13	SUNDAY								
23-Dec-13	0.143	0.102	0.249	0.160	0.143	0.102	0.489	0.912	0.175
24-Dec-13	0.087	0.285	0.153	0.132	0.087	0.285	0.087	0.272	0.166
25-Dec-13	HOLIDAY								
26-Dec-13	HOLIDAY								
27-Dec-13	0.087	0.735	0.683	0.739	0.087	0.735	0.086	0.093	0.940
28-Dec-13	0.093	0.657	0.221	0.198	0.093	0.657	0.384	0.093	0.470
29-Dec-13	SUNDAY								
30-Dec-13	0.896	0.176	0.150	0.097	0.896	0.176	0.198	0.239	0.226
31-Dec-13	0.182	0.746	0.180	0.254	0.182	0.746	0.650	0.184	1.040

Vibration Monitoring Record (Jan)

	Block 1		Block 2	Block 3		Block 4	Block 6 & 7		Block 9	Block 11		Block 12		Block 13	Block 15	
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2	VM4-1	VM6-1	VM7-1	VM9-1	VM11-1	VM11-2	VM12-1	VM12-2	VM13-1	VM15-1	VM15-2
Date	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	mm/s
01-Jan-14	Holiday															
02-Jan-14	0.258	0.113	0.098	0.203	0.268	0.324	0.151	0.151	0.240	0.355	0.308	0.258	0.132	0.182	0.103	0.294
03-Jan-14	0.091	0.121	0.112	0.237	0.147	0.393	0.172	0.429	0.100	0.172	0.102	0.105	0.102	0.160	0.087	0.095
04-Jan-14	0.220	0.310	0.105	0.278	0.196	0.121	0.306	0.166	0.136	0.129	0.147	0.175	0.108	0.224	0.102	0.087
05-Jan-14	Sunday															
06-Jan-14	0.086	0.100	0.086	0.143	0.243	0.174	0.131	0.145	0.114	0.350	0.323	0.251	0.352	0.324	0.136	0.102
07-Jan-14	0.087	0.306	0.147	0.414	0.225	0.164	0.849	0.137	0.194	0.175	0.295	0.164	0.325	0.169	0.246	0.192
08-Jan-14	0.125	0.182	0.125	0.192	0.113	0.102	0.131	0.181	0.137	0.187	0.098	0.091	0.098	0.180	0.086	0.163
09-Jan-14	0.163	0.156	0.091	0.125	0.169	0.402	0.106	0.158	0.205	0.567	0.212	0.106	0.239	0.125	0.163	0.169
10-Jan-14	0.144	0.129	0.128	0.087	0.227	0.136	0.136	0.128	0.184	0.166	0.166	0.111	0.102	0.150	0.757	0.114
11-Jan-14	0.817	0.216	0.091	0.103	0.163	0.270	0.124	0.154	0.169	0.143	0.206	0.097	0.086	0.129	0.086	0.093
12-Jan-14	Sunday															
13-Jan-14	0.098	0.094	0.125	0.095	0.248	0.297	0.160	0.157	0.215	0.588	0.375	0.196	0.249	0.347	0.203	0.217
14-Jan-14	0.113	0.128	0.117	0.091	0.086	0.182	0.351	0.166	0.156	0.151	0.407	0.112	0.119	0.281	0.100	0.117
15-Jan-14	0.097	0.144	0.128	0.113	0.116	0.200	0.169	0.122	0.129	0.266	0.160	0.368	0.351	0.303	0.913	0.741
16-Jan-14	0.191	0.129	0.093	0.086	0.097	0.223	0.200	0.169	0.337	0.162	0.465	0.413	0.308	0.314	0.288	0.719
17-Jan-14	0.163	0.209	0.147	0.182	0.209	0.177	0.196	0.738	0.144	0.094	0.087	0.785	0.849	0.129	1.040	0.407
18-Jan-14	0.132	0.212	0.217	0.093	0.128	0.160	0.214	0.218	0.341	0.485	0.145	0.264	0.468	0.094	0.163	0.178
19-Jan-14	Sunday															
20-Jan-14	0.146	0.143	0.117	0.131	0.087	0.249	0.320	0.125	0.145	0.391	0.160	0.276	0.140	0.086	0.139	0.676
21-Jan-14	0.130	0.131	0.217	0.241	0.157	0.166	0.098	0.169	0.509	0.172	0.177	0.174	0.544	0.287	0.202	0.313
22-Jan-14	0.144	0.142	0.178	0.116	0.102	0.122	0.191	0.136	0.132	0.147	0.145	0.249	0.143	0.160	0.091	0.087
23-Jan-14	0.108	0.137	0.098	0.121	0.137	0.108	0.166	0.172	0.166	0.234	0.164	0.105	0.137	0.166	0.241	0.145
24-Jan-14	0.091	0.174	0.093	0.117	0.086	0.151	0.187	0.143	0.704	0.208	0.132	0.087	0.087	0.144	0.171	0.137
25-Jan-14	0.128	0.129	0.208	0.097	0.223	0.355	0.150	0.262	0.169	0.091	0.102	0.086	0.102	0.093	0.091	0.086
26-Jan-14	Sunday															
27-Jan-14	0.404	0.116	0.143	0.579	0.414	0.174	0.160	0.145	0.102	0.169	0.160	0.823	0.137	0.113	0.332	0.111
28-Jan-14	0.197	0.140	0.272	0.160	0.100	0.217	0.259	0.196	0.091	0.175	0.355	0.157	0.848	0.106	0.872	0.926
29-Jan-14	0.092	0.081	0.097	0.081	0.124	0.194	0.159	0.182	0.208	0.182	0.122	0.116	0.102	0.153	0.137	0.137
30-Jan-14	Site Closed															
31-Jan-14	Holiday															

Gammon

Vibration Monitoring Record (Feb)

	Block 1		Block 2	Block 3		Block 4	Block 6 & 7		Block 9	Block 11		Block 12		Block 13	Block 15	
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2	VM4-1	VM6-1	VM7-1	VM9-1	VM11-1	VM11-2	VM12-1	VM12-2	VM13-1	VM15-1	VM15-2
Date	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	mm/s
01-Feb-14	Holiday															
02-Feb-14	Sunday															
03-Feb-14	Holiday															
04-Feb-14	Site Closed															
05-Feb-14	Site Closed															
06-Feb-14	0.087	0.086	0.102	0.146	0.116	0.225	0.133	0.166	0.200	0.106	0.153	0.081	0.181	0.201	0.189	0.117
07-Feb-14	0.087	0.138	0.143	0.094	0.086	0.355	0.136	0.209	0.125	0.209	0.242	0.108	0.100	0.201	0.214	0.230
08-Feb-14	0.083	0.097	0.178	0.102	0.766	0.304	0.207	0.165	0.160	0.131	0.145	0.087	0.098	0.102	0.256	0.093
09-Feb-14	Sunday															
10-Feb-14	0.228	0.132	0.103	0.160	0.102	0.122	0.221	0.300	0.162	0.727	0.616	0.461	0.799	0.676	0.211	0.175
11-Feb-14	0.098	0.264	0.132	0.100	0.104	0.285	0.137	0.290	0.240	0.572	0.642	0.550	0.522	0.129	0.522	0.709
12-Feb-14	0.456	0.383	0.132	0.254	0.329	0.196	0.239	0.132	0.502	0.328	0.414	0.353	0.282	0.406	0.106	0.200
13-Feb-14	0.322	0.285	0.340	0.102	0.105	0.263	0.351	0.318	1.000	0.172	0.093	0.250	0.091	0.687	0.093	0.087
14-Feb-14	0.355	0.176	0.281	0.466	0.259	0.225	0.234	0.166	0.293	0.175	0.302	0.169	0.209	0.303	0.177	0.163
15-Feb-14	0.319	0.244	0.270	0.312	0.151	0.194	0.156	0.398	0.137	0.204	0.157	0.137	0.119	0.258	0.086	0.090
16-Feb-14	Sunday															
17-Feb-14	0.131	0.225	0.163	0.146	0.098	0.178	0.177	0.139	0.531	0.091	0.164	0.095	0.098	0.592	0.079	0.122
18-Feb-14	0.100	0.137	0.132	0.121	0.097	0.211	0.139	0.192	0.395	0.108	0.091	0.122	0.098	0.275	0.111	0.270
19-Feb-14	0.383	0.102	0.414	0.318	0.209	0.436	0.094	0.104	0.103	0.145	0.086	0.174	0.087	0.087	0.091	0.095
20-Feb-14	0.111	0.151	0.098	0.098	0.103	0.452	0.194	0.351	0.831	0.352	0.597	0.309	0.102	0.833	0.171	0.086
21-Feb-14	0.325	0.175	0.175	0.214	0.119	0.352	0.166	0.233	0.130	0.131	0.209	0.163	0.129	0.166	0.117	0.087
22-Feb-14	0.153	0.106	0.233	0.136	0.132	0.146	0.163	0.172	0.098	0.125	0.105	0.091	0.091	0.098	0.172	0.150
23-Feb-14	Sunday															
24-Feb-14	0.176	0.147	0.159	0.103	0.178	0.225	0.781	0.448	0.227	0.261	0.320	0.113	0.100	0.496	0.091	0.100
25-Feb-14	0.719	0.566	0.595	0.125	0.103	0.240	0.209	0.191	0.333	0.087	0.143	0.307	0.093	0.334	0.225	0.112
26-Feb-14	0.151	0.160	0.097	0.128	0.147	0.212	0.201	0.184	0.349	0.119	0.091	0.105	0.083	0.534	0.087	0.108
27-Feb-14	0.170	0.144	0.120	0.175	0.103	0.536	0.420	0.260	0.095	0.207	0.086	0.132	0.095	0.332	0.318	0.102
28-Feb-14	0.112	0.105	0.111	0.223	0.184	0.232	0.256	0.418	0.232	0.144	0.343	0.223	0.087	0.106	0.175	0.108

Vibration Monitoring Record (March)

	Block 1		Block 2	Block 3		Block 4	Block 6 & 7		Block 9	Block 11		Block 12		Block 13	Block 15	
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2	VM4-1	VM6-1	VM7-1	VM9-1	VM11-1	VM11-2	VM12-1	VM12-2	VM13-1	VM15-1	VM15-2
Date	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	mm/s
01-Mar-14	0.091	0.100	0.105	0.091	0.116	0.326	0.303	0.316	0.221	0.116	0.233	0.355	0.111	0.125	0.087	0.086
02-Mar-14	Sunday															
03-Mar-14	0.191	0.113	0.125	0.176	0.098	0.421	0.997	0.538	0.129	0.108	0.113	0.137	0.111	0.135	0.108	0.100
04-Mar-14	0.159	0.151	0.106	0.121	0.202	0.822	0.706	0.409	0.182	0.106	0.119	0.125	0.264	0.146	0.223	0.081
05-Mar-14	0.194	0.131	0.132	0.192	0.122	0.287	0.498	0.398	0.180	0.108	0.191	0.154	0.103	0.196	0.094	0.113
06-Mar-14	0.129	0.742	1.020	0.120	0.102	0.573	0.717	0.987	0.108	0.164	0.191	0.151	0.083	0.108	0.112	0.125
07-Mar-14	1.080	0.472	0.259	0.286	0.225	0.978	0.321	0.209	0.129	0.158	0.151	0.143	0.113	0.120	0.217	0.083
08-Mar-14	0.537	0.214	0.362	0.211	0.185	0.351	0.216	0.233	0.162	0.135	0.128	0.138	0.105	0.143	0.225	0.193
09-Mar-14	Sunday															
10-Mar-14	0.306	0.242	0.129	0.350	0.102	0.419	0.563	0.343	0.131	0.243	0.501	0.208	0.095	0.304	0.087	0.102
11-Mar-14	0.251	0.198	0.322	0.281	0.147	0.364	0.382	0.251	0.117	0.162	0.138	0.126	0.142	0.153	0.192	0.109
12-Mar-14	0.255	0.172	0.559	0.146	0.503	0.212	0.335	0.651	0.321	0.607	0.530	0.137	0.094	0.262	0.093	0.103
13-Mar-14	0.103	0.117	0.194	0.678	0.192	0.335	0.276	0.321	0.192	0.086	0.102	0.180	0.111	0.136	0.091	0.087
14-Mar-14	0.168	0.103	0.221	0.175	0.138	0.231	0.301	0.238	0.132	0.351	0.232	0.168	0.143	0.184	0.168	0.124
15-Mar-14	0.182	0.142	0.281	0.168	0.114	0.253	0.277	0.186	0.158	0.195	0.210	0.209	0.161	0.133	0.211	0.117
16-Mar-14	Sunday															
17-Mar-14	0.145	0.128	0.239	0.446	0.113	0.239	0.190	0.400	0.117	0.392	0.436	0.412	0.227	0.370	0.102	0.098
18-Mar-14	0.168	0.117	0.183	0.228	0.114	0.204	0.294	0.215	0.153	0.216	0.211	0.225	0.157	0.138	0.132	0.101
19-Mar-14	0.259	0.128	0.090	0.086	0.190	0.847	0.259	0.163	0.087	0.095	0.093	0.125	0.128	0.103	0.086	0.079
20-Mar-14	0.864	0.258	0.870	0.217	0.236	0.390	0.113	0.172	0.526	0.316	0.122	0.091	0.117	0.471	0.087	0.087
21-Mar-14	0.181	0.160	0.111	0.145	0.166	0.139	0.166	0.172	0.117	0.550	0.125	0.117	0.079	0.438	0.087	0.086
22-Mar-14	0.105	0.290	0.218	0.094	0.098	0.612	0.595	0.290	0.106	0.156	0.106	0.302	0.091	0.120	0.950	0.116
23-Mar-14	Sunday															
24-Mar-14	0.160	0.145	0.317	0.116	0.279	0.196	0.172	0.512	0.151	0.251	0.324	0.225	0.303	0.204	0.147	0.090
25-Mar-14	0.144	0.129	0.348	0.098	0.357	0.810	0.337	0.922	0.209	0.302	0.139	0.087	0.119	0.555	0.128	0.086
26-Mar-14	0.462	0.132	0.197	0.611	0.503	0.710	0.464	0.319	0.203	0.240	0.907	0.087	0.086	0.087	0.097	0.081
27-Mar-14	0.163	0.086	0.094	0.197	0.128	1.090	0.912	0.722	0.131	0.217	0.095	0.706	0.579	0.097	0.605	0.132
28-Mar-14	0.335	0.174	0.156	0.128	0.095	0.461	0.369	0.211	0.155	0.185	0.137	0.201	0.168	0.138	0.279	0.118
29-Mar-14	0.120	0.111	0.176	0.429	0.382	0.641	0.540	0.714	0.160	0.087	0.145	0.227	0.098	0.112	0.273	0.093
30-Mar-14	Sunday															
31-Mar-14	0.086	0.286	0.086	0.112	0.147	0.259	0.239	0.144	0.087	0.146	0.086	0.083	0.086	0.093	0.316	0.083

Vibration Monitoring Record (April)

	Block 1		Block 2	Block 3		Block 4	Block 6 & 7		Block 9	Block 11		Block 12		Block 13	Block 15	
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2	VM4-1	VM6-1	VM7-1	VM9-1	VM11-1	VM11-2	VM12-1	VM12-2	VM13-1	VM15-1	VM15-2
Date	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	mm/s
01-Apr-14	0.102	0.139	0.093	0.422	0.350	0.367	0.461	0.593	0.556	0.166	0.479	0.177	0.221	0.206	0.105	0.087
02-Apr-14	0.098	0.087	0.093	0.087	0.245	0.353	0.098	0.098	0.091	0.163	0.136	0.337	0.342	0.132	0.083	0.100
03-Apr-14	0.157	0.114	0.138	0.251	0.167	0.294	0.183	0.225	0.172	0.205	0.149	0.166	0.142	0.186	0.132	0.105
04-Apr-14	0.202	0.175	0.152	0.371	0.128	0.168	0.267	0.392	0.122	0.283	0.176	0.135	0.089	0.168	0.288	0.164
05-Apr-14	Holiday															
06-Apr-14	Sunday															
07-Apr-14	0.265	0.126	0.316	0.203	0.185	0.392	0.216	0.195	0.117	0.357	0.218	0.138	0.109	0.172	0.165	0.096
08-Apr-14	0.102	0.658	0.171	0.122	0.151	0.328	0.592	0.608	0.140	0.175	0.591	0.083	0.102	0.132	0.091	0.206
09-Apr-14	0.272	0.237	0.108	0.351	0.383	0.921	0.598	0.494	0.209	0.146	0.125	0.194	0.120	0.143	0.081	0.087
10-Apr-14	0.186	0.115	0.201	0.286	0.126	0.421	0.334	0.196	0.221	0.207	0.158	0.152	0.115	0.185	0.123	0.104
11-Apr-14	0.129	0.160	0.113	0.087	0.117	0.703	0.964	0.720	0.271	0.552	0.104	0.087	0.203	0.281	0.825	0.087
12-Apr-14	0.502	0.327	0.434	0.397	0.426	0.791	0.366	0.819	0.334	0.364	0.444	0.321	0.146	0.309	0.496	0.289
13-Apr-14	Sunday															
14-Apr-14	0.217	0.168	0.135	0.231	0.118	0.264	0.352	0.306	0.189	0.403	0.211	0.166	0.150	0.223	0.251	0.130
15-Apr-14	0.112	0.086	0.087	0.098	0.175	0.268	0.413	0.820	0.166	0.217	0.154	0.086	0.095	0.231	0.106	0.086
16-Apr-14	0.163	0.116	0.208	0.158	0.182	0.383	0.230	0.194	0.132	0.154	0.240	0.209	0.258	0.199	0.526	0.509
17-Apr-14	0.493	0.243	0.187	0.169	0.247	0.163	0.183	0.318	0.214	0.147	0.238	0.303	0.151	0.124	0.154	0.127
18-Apr-14	Holiday															
19-Apr-14	Holiday															
20-Apr-14	Sunday															
21-Apr-14	Holiday															
22-Apr-14	0.169	0.137	0.147	0.166	0.162	0.133	0.197	0.177	0.178	0.174	0.178	0.169	0.484	0.147	0.281	0.343
23-Apr-14	0.944	0.192	0.117	0.258	0.432	0.165	0.614	0.194	0.128	0.090	0.117	0.095	0.139	0.098	0.188	0.081
24-Apr-14	0.111	0.145	0.120	0.242	0.588	0.160	0.824	0.712	0.169	0.192	0.150	0.221	0.143	0.258	0.570	0.266
25-Apr-14	0.178	0.243	0.159	0.166	0.122	0.311	0.380	0.209	0.166	0.137	0.136	0.137	0.102	0.120	0.317	0.132
26-Apr-14	0.137	0.147	0.870	0.237	0.242	0.732	0.307	0.217	0.378	0.275	0.102	0.086	0.121	0.541	0.122	0.102
27-Apr-14	Sunday															
28-Apr-14	0.182	0.221	0.164	0.128	0.177	0.607	0.399	0.278	0.147	0.166	0.277	0.274	0.282	0.166	0.287	0.184
29-Apr-14	0.236	0.526	0.241	0.487	0.163	0.394	0.811	0.527	0.763	0.265	0.302	0.290	0.163	0.216	0.094	0.593
30-Apr-14	0.241	0.212	0.177	0.163	0.160	0.233	0.528	0.166	0.652	0.650	0.178	0.575	0.583	0.656	0.564	0.575

Vibration Monitoring Record (MAY)

	Block 1		Block 2	Block 3		Block 4	Block 6 & 7		Block 9	Block 11		Block 12		Block 13	Block 15	
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2	VM4-1	VM6-1	VM7-1	VM9-1	VM11-1	VM11-2	VM12-1	VM12-2	VM13-1	VM15-1	VM15-2
Date	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	mm/s
01-May-14	Holiday															
02-May-14	0.439	0.760	0.369	0.687	0.316	0.230	0.177	0.145	0.129	0.251	0.106	0.363	0.380	0.119	0.370	0.225
03-May-14	0.217	0.283	0.138	0.384	0.176	0.268	0.216	0.181	0.208	0.358	0.183	0.291	0.169	0.175	0.468	0.398
04-May-14	Sunday															
05-May-14	0.251	0.251	0.143	0.087	0.087	0.302	0.186	0.212	0.128	0.266	0.285	0.556	0.506	0.169	0.639	0.166
06-May-14	Holiday															
07-May-14	0.193	0.205	0.169	0.159	0.112	0.228	0.182	0.310	0.139	0.524	0.162	0.326	0.224	0.192	0.331	0.521
08-May-14	0.349	0.083	0.117	0.327	0.098	0.455	0.251	0.354	0.163	0.120	0.842	0.182	0.108	0.137	0.160	0.100
09-May-14	0.259	0.164	0.271	0.314	0.241	0.394	0.586	0.165	0.331	0.318	0.124	0.165	0.167	0.153	0.138	0.327
10-May-14	0.338	0.141	0.261	0.624	0.228	0.216	0.328	0.197	0.128	0.536	0.268	0.132	0.185	0.194	0.201	0.354
11-May-14	Sunday															
12-May-14	0.341	0.254	0.595	0.431	0.272	0.194	0.422	0.447	0.139	0.137	0.131	0.119	0.135	0.129	0.122	0.124
13-May-14	0.087	0.087	0.106	0.102	0.090	0.116	0.087	0.083	0.163	0.086	0.087	0.716	0.116	0.093	0.122	0.086
14-May-14	0.095	0.268	0.111	0.196	0.144	0.180	0.129	0.131	0.331	0.087	0.086	0.551	0.117	0.122	0.098	0.117
15-May-14	0.571	0.236	0.145	0.102	0.164	0.451	0.306	0.177	0.128	0.124	0.102	0.087	0.095	0.151	0.114	0.086
16-May-14	0.175	0.172	0.132	0.095	0.647	0.209	0.317	0.536	0.886	0.137	0.105	0.100	0.102	0.120	0.093	0.087
17-May-14	0.663	0.208	0.156	0.351	0.191	0.549	0.558	0.184	0.222	0.977	0.094	0.093	0.090	0.106	0.094	0.151
18-May-14	Sunday															
19-May-14	0.438	0.423	0.242	0.304	0.333	0.228	0.199	0.837	0.778	0.977	0.094	0.483	0.177	0.539	0.349	0.272
20-May-14	0.128	0.145	0.421	0.176	0.802	0.499	0.619	0.452	0.154	0.262	0.230	0.178	0.481	0.402	0.178	0.298
21-May-14	0.164	0.251	0.235	0.199	0.204	0.324	0.403	0.251	0.208	0.311	0.146	0.226	0.143	0.156	0.197	0.286
22-May-14	0.103	0.117	0.194	0.678	0.192	0.335	0.276	0.150	0.192	0.086	0.102	0.180	0.111	0.136	0.091	0.087
23-May-14	0.124	0.146	0.162	0.162	0.137	0.132	0.132	0.102	0.093	0.098	0.151	0.258	0.196	0.095	0.275	0.681
24-May-14	0.193	0.281	0.116	0.371	0.265	0.228	0.201	0.188	0.118	0.661	0.203	0.199	0.124	0.167	0.301	0.275
25-May-14	Sunday															
26-May-14	0.209	0.208	0.209	0.416	0.310	0.318	0.191	0.303	0.264	0.585	0.397	0.257	0.321	0.364	0.236	0.313
27-May-14	0.307	0.652	0.574	0.423	0.739	0.606	0.446	0.497	0.499	0.091	0.093	0.106	0.586	0.098	0.093	0.202
28-May-14	0.150	0.147	0.108	0.290	0.203	0.536	0.606	0.492	0.178	0.170	0.128	0.309	0.177	0.147	0.095	0.087
29-May-14	0.539	0.370	0.194	0.214	0.244	0.194	0.227	0.166	0.307	0.098	0.131	0.132	0.214	0.145	0.102	0.098
30-May-14	0.349	0.319	0.406	0.259	0.247	0.246	0.542	0.240	0.338	0.341	0.112	0.229	0.137	0.156	0.267	0.351
31-May-14	0.128	0.227	0.117	0.223	0.381	0.104	0.106	0.102	0.116	0.105	0.271	0.122	0.274	0.321	0.112	0.514

Gammon

Vibration Monitoring Record (JUNE)

	Block 1		Block 2	Block 3		Block 4	Block 6 & 7		Block 9	Block 11		Block 12		Block 13	Block 15	
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2	VM4-1	VM6-1	VM7-1	VM9-1	VM11-1	VM11-2	VM12-1	VM12-2	VM13-1	VM15-1	VM15-2
Date	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	mm/s
01-Jun-14	Sunday															
02-Jun-14	Holiday															
03-Jun-14	0.429	0.444	0.392	0.430	0.365	0.244	0.517	0.505	0.302	0.286	0.174	0.451	0.197	0.215	0.358	0.228
04-Jun-14	0.361	0.228	0.176	0.339	0.216	0.397	0.216	0.364	0.221	0.223	0.351	0.314	0.209	0.183	0.242	0.391
05-Jun-14	0.169	0.281	0.310	0.185	0.167	0.311	0.201	0.297	0.135	0.612	0.179	0.301	0.174	0.220	0.336	0.712
06-Jun-14	0.132	0.201	0.177	0.244	0.298	0.204	0.402	0.275	0.490	0.143	0.120	0.112	0.140	0.160	0.100	0.207
07-Jun-14	0.398	0.196	0.639	0.285	0.266	0.335	0.209	0.574	0.467	0.150	0.162	0.125	0.388	0.113	0.103	0.117
08-Jun-14	Sunday															
09-Jun-14	0.281	0.359	0.354	0.114	0.139	0.405	0.239	0.433	0.102	0.239	0.209	0.102	0.438	0.102	0.377	0.354
10-Jun-14	0.346	0.160	0.106	0.137	0.166	0.208	0.705	0.316	0.337	0.098	0.209	0.579	0.098	0.177	0.098	0.117
11-Jun-14	0.240	0.318	0.371	0.570	0.150	0.668	0.256	0.340	0.183	0.139	0.112	0.087	0.087	0.125	0.222	0.087
12-Jun-14	0.137	0.097	0.209	0.098	0.164	0.182	0.095	0.104	0.097	0.095	0.102	0.098	0.098	0.098	0.097	0.097
13-Jun-14	0.206	0.171	0.305	0.286	0.225	0.611	0.334	0.197	0.231	0.221	0.271	0.233	0.161	0.117	0.358	0.206
14-Jun-14	0.120	0.395	0.200	0.093	0.102	0.108	0.106	0.216	0.108	0.097	0.097	0.111	0.098	0.098	0.094	0.097
15-Jun-14	Sunday															
16-Jun-14	0.648	0.319	0.208	0.106	0.103	0.398	0.635	0.415	0.194	0.303	0.108	0.129	0.227	0.230	0.132	0.139
17-Jun-14	0.102	0.402	0.216	0.128	0.243	0.248	0.207	0.095	0.393	0.291	0.100	0.350	0.102	0.106	0.758	0.105
18-Jun-14	0.105	0.761	0.189	0.208	0.106	0.184	0.108	0.102	0.113	0.113	0.194	0.120	0.128	0.106	0.199	0.178
19-Jun-14	0.198	0.165	0.256	0.171	0.794	0.319	0.351	0.245	0.231	0.231	0.428	0.240	0.313	0.593	0.307	0.601
20-Jun-14	0.151	0.186	0.164	0.291	0.220	0.246	0.214	0.167	0.385	0.335	0.201	0.146	0.139	0.291	0.531	0.468
21-Jun-14	0.395	0.172	0.202	0.635	0.196	0.691	0.304	0.245	0.519	0.167	0.282	0.367	0.282	0.165	0.337	0.310
22-Jun-14	Sunday															
23-Jun-14	0.904	0.306	0.290	0.176	0.700	0.194	0.370	0.303	0.124	0.213	0.259	0.245	0.436	0.277	0.560	0.331
24-Jun-14	0.154	0.166	0.158	0.335	0.157	0.147	0.163	0.201	0.350	0.135	0.145	0.293	0.255	0.147	0.541	0.337
25-Jun-14	0.291	0.118	0.221	0.396	0.152	0.254	0.220	0.169	0.197	0.361	0.285	0.119	0.621	0.225	0.286	0.662
26-Jun-14	0.395	0.298	0.146	0.285	0.124	0.361	0.193	0.281	0.204	0.199	0.206	0.268	0.152	0.190	0.361	0.465
27-Jun-14	0.212	0.138	0.197	0.632	0.241	0.199	0.354	0.265	0.265	0.385	0.165	0.367	0.213	0.331	0.225	0.691
28-Jun-14	0.281	0.191	0.400	0.184	0.177	0.294	0.259	0.222	0.194	0.183	0.232	0.202	0.206	0.176	0.199	0.405
29-Jun-14	Sunday															
30-Jun-14	0.311	0.197	0.173	0.491	0.205	0.334	0.298	0.243	0.176	0.394	0.521	0.175	0.139	0.149	0.278	0.556

Gammon

Vibration Monitoring Record (JULY)

	Block 1		Block 2	Block 3		Block 4	Block 6 & 7		Block 9	Block 11		Block 12		Block 13	Block 15	
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2	VM4-1	VM6-1	VM7-1	VM9-1	VM11-1	VM11-2	VM12-1	VM12-2	VM13-1	VM15-1	VM15-2
Date	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	mm/s
01-Jul-14	Sunday															
02-Jul-14	0.209	0.153	0.176	0.309	0.176	0.413	0.211	0.209	0.182	0.328	0.194	0.194	0.235	0.169	0.166	0.151
03-Jul-14	0.206	0.573	0.166	0.225	0.249	0.321	0.196	0.209	0.178	0.209	0.270	0.230	0.180	0.223	0.177	0.146
04-Jul-14	0.207	0.452	0.194	0.242	0.223	0.180	0.265	0.177	0.260	0.202	0.163	0.199	0.203	0.169	0.171	0.223
05-Jul-14	0.247	0.317	0.242	0.598	0.251	0.194	0.308	0.390	0.660	0.493	0.317	0.491	0.235	0.398	0.327	0.811
06-Jul-14	Sunday															
07-Jul-14	0.365	0.284	0.174	0.296	0.192	0.226	0.269	0.341	0.201	0.631	0.205	0.294	0.164	0.182	0.413	0.562
08-Jul-14	0.216	0.237	0.359	0.364	0.363	0.209	0.216	0.203	0.598	0.532	0.217	0.421	0.390	0.370	0.157	0.292
09-Jul-14	0.197	0.313	0.521	0.168	0.193	0.325	0.229	0.256	0.216	0.269	0.197	0.285	0.361	0.231	0.391	0.543
10-Jul-14	0.325	0.184	0.229	0.531	0.164	0.182	0.261	0.165	0.359	0.394	0.201	0.396	0.288	0.146	0.625	0.441
11-Jul-14	0.073	0.073	0.104	0.131	0.081	0.073	0.073	0.073	0.189	0.120	0.081	0.145	0.081	0.081	0.086	0.091
12-Jul-14	0.168	0.117	0.291	0.443	0.154	0.299	0.381	0.129	0.360	0.264	0.167	0.351	0.117	0.231	0.361	0.221
13-Jul-14	Sunday															
14-Jul-14	0.394	0.221	0.199	0.261	0.173	0.335	0.212	0.194	0.165	0.394	0.284	0.198	0.182	0.524	0.267	0.197
15-Jul-14	0.369	0.184	0.184	0.289	0.520	0.196	0.185	0.338	0.206	0.168	0.117	0.318	0.241	0.149	0.381	0.224
16-Jul-14	0.241	0.192	0.341	0.164	0.254	0.224	0.210	0.351	0.169	0.182	0.162	0.196	0.225	0.226	0.216	0.176
17-Jul-14	0.394	0.284	0.213	0.147	0.263	0.374	0.189	0.216	0.099	0.119	0.252	0.266	0.341	0.194	0.341	0.284
18-Jul-14	0.641	0.258	0.164	0.164	0.326	0.341	0.298	0.179	0.196	0.461	0.169	0.344	0.116	0.144	0.199	0.314
19-Jul-14	0.319	0.154	0.165	0.551	0.134	0.167	0.221	0.327	0.112	0.325	0.464	0.136	0.242	0.168	0.333	0.196
20-Jul-14	Sunday															
21-Jul-14	0.360	0.112	0.112	0.627	0.078	0.078	0.078	0.078	0.147	0.086	0.312	0.579	0.086	0.086	0.339	0.086
22-Jul-14	0.086	0.086	0.081	0.081	0.086	0.445	0.081	0.086	0.324	0.086	0.081	0.417	0.212	0.120	0.122	0.196
23-Jul-14	0.086	0.059	0.066	0.129	0.413	0.154	0.066	0.223	0.106	0.081	0.166	0.308	0.059	0.073	0.171	0.066
24-Jul-14	0.086	0.081	0.518	0.139	0.086	0.445	0.306	0.408	0.102	0.408	0.102	0.147	0.081	0.086	0.375	0.520
25-Jul-14	0.106	0.121	0.096	0.331	0.129	0.165	0.641	0.366	0.165	0.126	0.366	0.168	0.653	0.154	0.385	0.331
26-Jul-14	0.089	0.162	0.087	0.221	0.103	0.612	0.229	0.169	0.086	0.164	0.168	0.341	0.158	0.286	0.325	0.198
27-Jul-14	Sunday															
28-Jul-14	0.162	0.099	0.172	0.138	0.334	0.249	0.321	0.249	0.165	0.521	0.265	0.195	0.156	0.132	0.165	0.165
29-Jul-14	0.083	0.073	0.081	0.073	0.135	0.078	0.482	0.073	0.202	0.259	0.081	0.120	0.131	0.081	0.151	0.081
30-Jul-14	0.086	0.048	0.066	0.066	0.462	0.117	0.048	0.433	0.453	0.398	0.147	0.278	0.529	0.686	0.678	0.066
31-Jul-14	0.121	0.192	0.088	0.185	0.094	0.091	0.198	0.204	0.632	0.251	0.105	0.112	0.161	0.149	0.195	0.613

Gammon

Vibration Monitoring Record (August)

	Block 1		Block 2	Block 3		Block 4	Block 6 & 7		Block 9	Block 11		Block 12		Block 13	Block 15	
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2	VM4-1	VM6-1	VM7-1	VM9-1	VM11-1	VM11-2	VM12-1	VM12-2	VM13-1	VM15-1	VM15-2
Date	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	mm/s
01-Aug-14	0.198	0.132	0.074	0.651	0.165	0.161	0.654	0.102	0.164	0.138	0.461	0.081	0.079	0.102	0.165	0.249
02-Aug-14	0.169	0.089	0.321	0.184	0.549	0.099	0.168	0.498	0.144	0.349	0.144	0.159	0.185	0.341	0.446	0.188
03-Aug-14	Sunday															
04-Aug-14	0.647	0.106	0.185	0.481	0.348	0.323	0.348	0.157	0.098	0.141	0.489	0.165	0.127	0.177	0.213	0.491
05-Aug-14	0.149	0.654	0.087	0.314	0.134	0.196	0.165	0.314	0.333	0.312	0.164	0.287	0.136	0.147	0.255	0.186
06-Aug-14	0.096	0.174	0.442	0.248	0.101	0.136	0.341	0.244	0.134	0.134	0.381	0.216	0.188	0.185	0.361	0.220
07-Aug-14	0.160	0.489	0.118	0.349	0.249	0.491	0.553	0.652	0.122	0.285	0.079	0.196	0.125	0.313	0.117	0.102
08-Aug-14	0.197	0.085	0.295	0.641	0.211	0.239	0.188	0.172	0.254	0.187	0.139	0.139	0.095	0.097	0.099	0.321
09-Aug-14	0.499	0.189	0.185	0.128	0.596	0.093	0.194	0.124	0.119	0.551	0.216	0.328	0.187	0.205	0.175	0.106
10-Aug-14	Sunday															
11-Aug-14	0.097	0.198	0.168	0.219	0.076	0.316	0.211	0.162	0.152	0.168	0.298	0.261	0.198	0.145	0.192	0.359
12-Aug-14	0.326	0.140	0.097	0.138	0.111	0.115	0.395	0.415	0.088	0.269	0.199	0.106	0.097	0.114	0.366	0.391
13-Aug-14	0.289	0.168	0.154	0.368	0.184	0.291	0.221	0.381	0.201	0.391	0.136	0.202	0.168	0.298	0.234	0.147
14-Aug-14	0.132	0.241	0.128	0.288	0.357	0.198	0.394	0.185	0.115	0.154	0.086	0.271	0.146	0.164	0.551	0.216
15-Aug-14	0.366	0.274	0.184	0.284	0.117	0.092	0.209	0.141	0.097	0.369	0.189	0.295	0.158	0.192	0.196	0.391
16-Aug-14	0.098	0.106	0.241	0.116	0.085	0.149	0.098	0.145	0.075	0.281	0.162	0.146	0.094	0.100	0.338	0.189
17-Aug-14	Sunday															
18-Aug-14	0.614	0.118	0.125	0.209	0.195	0.097	0.291	0.147	0.192	0.147	0.167	0.222	0.174	0.145	0.396	0.280
19-Aug-14	0.149	0.189	0.158	0.166	0.096	0.219	0.185	0.569	0.325	0.391	0.198	0.089	0.106	0.127	0.228	0.228
20-Aug-14	0.392	0.144	0.362	0.168	0.123	0.121	0.214	0.302	0.298	0.198	0.106	0.182	0.096	0.102	0.331	0.299
21-Aug-14	0.146	0.165	0.185	0.311	0.124	0.164	0.146	0.182	0.192	0.281	0.079	0.079	0.123	0.224	0.132	0.196
22-Aug-14	0.135	0.160	0.179	0.278	0.118	0.158	0.189	0.156	0.201	0.188	0.083	0.112	0.154	0.211	0.234	0.205
23-Aug-14	0.196	0.185	0.158	0.106	0.088	0.168	0.231	0.329	0.168	0.243	0.164	0.246	0.165	0.115	0.216	0.149
24-Aug-14	Sunday															
25-Aug-14	0.338	0.168	0.210	0.224	0.144	0.336	0.244	0.195	0.125	0.212	0.073	0.189	0.157	0.132	0.349	0.196
26-Aug-14	0.294	0.174	0.186	0.210	0.130	0.288	0.213	0.255	0.121	0.197	0.084	0.165	0.142	0.206	0.267	0.211
27-Aug-14	0.302	0.157	0.153	0.188	0.174	0.144	0.179	0.187	0.088	0.165	0.141	0.154	0.118	0.213	0.221	0.187
28-Aug-14	0.134	0.184	0.156	0.348	0.115	0.292	0.191	0.209	0.100	0.198	0.198	0.167	0.161	0.092	0.196	0.198
29-Aug-14	0.197	0.192	0.131	0.314	0.097	0.196	0.292	0.347	0.182	0.351	0.167	0.265	0.195	0.136	0.277	0.391
30-Aug-14	0.173	0.212	0.145	0.287	0.143	0.221	0.207	0.215	0.207	0.268	0.119	0.177	0.137	0.106	0.187	0.145
31-Aug-14	Sunday															

Vibration Monitoring Record (September)

	Block 1		Block 2	Block 3		Block 4	Block 6 & 7		Block 9	Block 11		Block 12		Block 13	Block 15	
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2	VM4-1	VM6-1	VM7-1	VM9-1	VM11-1	VM11-2	VM12-1	VM12-2	VM13-1	VM15-1	VM15-2
Date	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	mm/s
01-Sep-14	0.169	0.158	0.096	0.132	0.328	0.367	0.294	0.169	0.115	0.156	0.354	0.123	0.139	0.174	0.216	0.389
02-Sep-14	0.091	0.136	0.112	0.385	0.171	0.219	0.316	0.284	0.103	0.201	0.132	0.385	0.142	0.261	0.426	0.213
03-Sep-14	0.348	0.087	0.176	0.314	0.198	0.165	0.298	0.158	0.192	0.394	0.117	0.205	0.189	0.224	0.143	0.196
04-Sep-14	0.281	0.134	0.125	0.318	0.147	0.196	0.339	0.196	0.105	0.189	0.098	0.155	0.150	0.143	0.201	0.249
05-Sep-14	0.355	0.191	0.158	0.285	0.106	0.116	0.591	0.214	0.162	0.259	0.177	0.161	0.098	0.198	0.328	0.125
06-Sep-14	0.167	0.180	0.132	0.212	0.147	0.194	0.281	0.358	0.136	0.189	0.121	0.152	0.136	0.105	0.198	0.202
07-Sep-14	Sunday															
08-Sep-14	0.349	0.083	0.117	0.327	0.098	0.224	0.210	0.318	0.139	0.198	0.084	0.169	0.093	0.182	0.201	0.149
09-Sep-14	Holiday															
10-Sep-14	0.150	0.147	0.108	0.290	0.203	0.249	0.321	0.194	0.088	0.109	0.195	0.228	0.187	0.231	0.165	0.187
11-Sep-14	0.198	0.121	0.087	0.211	0.285	0.351	0.201	0.245	0.192	0.198	0.109	0.319	0.198	0.396	0.189	0.298
12-Sep-14	0.464	0.118	0.272	0.124	0.138	0.169	0.144	0.176	0.154	0.429	0.104	0.182	0.118	0.169	0.364	0.142
13-Sep-14	0.174	0.215	0.093	0.241	0.156	0.221	0.177	0.207	0.204	0.278	0.133	0.210	0.205	0.174	0.287	0.162
14-Sep-14	Sunday															
15-Sep-14	0.149	0.109	0.098	0.167	0.325	0.335	0.212	0.371	0.257	0.432	0.129	0.322	0.136	0.213	0.290	0.394
16-Sep-14	0.154	0.166	0.158	0.335	0.241	0.211	0.181	0.138	0.110	0.118	0.086	0.159	0.099	0.151	0.122	0.108
17-Sep-14	0.086	0.081	0.314	0.139	0.147	0.121	0.214	0.109	0.137	0.325	0.135	0.136	0.117	0.213	0.331	0.152
18-Sep-14	0.098	0.139	0.227	0.093	0.151	0.117	0.148	0.241	0.152	0.269	0.199	0.306	0.197	0.179	0.178	0.131
19-Sep-14	0.281	0.191	0.400	0.184	0.177	0.298	0.394	0.322	0.114	0.243	0.164	0.246	0.165	0.290	0.351	0.114
20-Sep-14	0.119	0.145	0.188	0.174	0.132	0.178	0.288	0.244	0.105	0.149	0.117	0.188	0.121	0.187	0.287	0.177
21-Sep-14	Sunday															
22-Sep-14	0.132	0.180	0.204	0.128	0.117	0.155	0.208	0.178	0.099	0.166	0.217	0.244	0.175	0.103	0.211	0.122
23-Sep-14	0.211	0.142	0.165	0.227	0.114	0.149	0.172	0.204	0.121	0.143	0.173	0.177	0.154	0.144	0.188	0.162
24-Sep-14	0.207	0.252	0.194	0.242	0.123	0.336	0.128	0.169	0.168	0.325	0.164	0.236	0.242	0.347	0.196	0.211
25-Sep-14	0.151	0.086	0.164	0.291	0.120	0.244	0.417	0.219	0.139	0.282	0.162	0.296	0.125	0.179	0.228	0.135
26-Sep-14	0.073	0.127	0.104	0.231	0.081	0.205	0.239	0.114	0.196	0.408	0.102	0.217	0.090	0.231	0.341	0.265
27-Sep-14	0.395	0.172	0.102	0.235	0.196	0.124	0.219	0.495	0.089	0.351	0.081	0.217	0.112	0.179	0.201	0.198
28-Sep-14	Sunday															
29-Sep-14	0.134	0.202	0.216	0.189	0.114	0.165	0.347	0.198	0.167	0.221	0.165	0.145	0.116	0.198	0.224	0.135
30-Sep-14	0.154	0.126	0.236	0.335	0.157	0.078	0.278	0.271	0.122	0.312	0.160	0.287	0.224	0.214	0.139	0.216

Gammon

Vibration Monitoring Record (September)

	Block 1		Block 2	Block 3		Block 4	Block 6 & 7		Block 9	Block 11		Block 12		Block 13	Block 15	
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2	VM4-1	VM6-1	VM7-1	VM9-1	VM11-1	VM11-2	VM12-1	VM12-2	VM13-1	VM15-1	VM15-2
Date	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	mm/s
01-Oct-14	Holiday															
02-Oct-14	Holiday															
03-Oct-14	0.197	0.198	0.088	0.219	0.076	0.121	0.315	0.295	0.206	0.241	0.132	0.385	0.182	0.155	0.234	0.196
04-Oct-14	0.218	0.087	0.176	0.324	0.148	0.139	0.229	0.139	0.143	0.212	0.102	0.282	0.136	0.189	0.368	0.165
05-Oct-14	Sunday															
06-Oct-14	0.339	0.076	0.369	0.287	0.116	0.117	0.476	0.225	0.198	0.187	0.109	0.209	0.095	0.132	0.178	0.130
07-Oct-14	0.173	0.112	0.145	0.217	0.143	0.092	0.209	0.147	0.116	0.398	0.257	0.278	0.529	0.151	0.196	0.156
08-Oct-14	0.095	0.102	0.314	0.109	0.147	0.167	0.221	0.207	0.088	0.251	0.105	0.182	0.161	0.231	0.149	0.159
09-Oct-14	0.150	0.127	0.108	0.290	0.253	0.128	0.189	0.331	0.192	0.461	0.169	0.344	0.116	0.196	0.234	0.341
10-Oct-14	0.083	0.172	0.189	0.217	0.135	0.145	0.306	0.176	0.206	0.325	0.364	0.136	0.242	0.144	0.275	0.109
11-Oct-14	0.338	0.168	0.121	0.224	0.140	0.246	0.214	0.569	0.112	0.164	0.168	0.341	0.158	0.268	0.319	0.165
12-Oct-14	Sunday															
13-Oct-14	0.212	0.118	0.197	0.132	0.201	0.197	0.256	0.136	0.333	0.521	0.265	0.295	0.156	0.147	0.189	0.198
14-Oct-14	0.209	0.189	0.158	0.266	0.114	0.093	0.194	0.201	0.165	0.224	0.126	0.168	0.065	0.198	0.145	0.169
15-Oct-14	0.185	0.165	0.179	0.278	0.108	0.161	0.291	0.285	0.153	0.164	0.108	0.341	0.158	0.132	0.331	0.125
16-Oct-14	0.206	0.213	0.166	0.205	0.149	0.168	0.256	0.149	0.105	0.261	0.129	0.164	0.112	0.111	0.162	0.203
17-Oct-14	0.206	0.178	0.135	0.296	0.255	0.092	0.221	0.198	0.165	0.114	0.173	0.206	0.091	0.189	0.196	0.156
18-Oct-14	0.327	0.127	0.104	0.131	0.099	0.149	0.318	0.220	0.112	0.183	0.088	0.142	0.261	0.101	0.118	0.198
19-Oct-14	Sunday															
20-Oct-14	0.163	0.198	0.257	0.122	0.356	0.296	0.201	0.137	0.113	0.189	0.217	0.325	0.112	0.359	0.095	0.112
21-Oct-14	0.192	0.099	0.127	0.314	0.116	0.496	0.179	0.491	0.108	0.134	0.198	0.165	0.141	0.164	0.132	0.091
22-Oct-14	0.134	0.172	0.341	0.205	0.189	0.153	0.272	0.167	0.154	0.138	0.099	0.143	0.120	0.191	0.198	0.125
23-Oct-14	0.316	0.149	0.185	0.431	0.167	0.138	0.198	0.153	0.093	0.193	0.145	0.128	0.195	0.143	0.451	0.138
24-Oct-14	0.181	0.236	0.189	0.177	0.132	0.089	0.146	0.205	0.150	0.198	0.158	0.188	0.176	0.167	0.231	0.186
25-Oct-14	0.375	0.155	0.172	0.204	0.198	0.167	0.297	0.183	0.226	0.167	0.187	0.125	0.102	0.142	0.135	0.202
26-Oct-14	Sunday															
27-Oct-14	0.197	0.152	0.123	0.241	0.198	0.491	0.198	0.161	0.167	0.165	0.189	0.513	0.096	0.139	0.325	0.173
28-Oct-14	0.177	0.122	0.115	0.187	0.211	0.154	0.201	0.188	0.149	0.361	0.148	0.456	0.210	0.118	0.256	0.198
29-Oct-14	0.205	0.117	0.262	0.172	0.115	0.365	0.364	0.129	0.114	0.132	0.188	0.411	0.121	0.195	0.194	0.132
30-Oct-14	0.491	0.151	0.285	0.189	0.102	0.168	0.194	0.209	0.239	0.129	0.102	0.183	0.159	0.157	0.317	0.188
31-Oct-14	0.136	0.219	0.188	0.234	0.103	0.185	0.179	0.152	0.158	0.173	0.116	0.203	0.179	0.221	0.139	0.126

Annex M

Summary of Key Findings of Monthly Cultural Heritage Site Audits and Current Condition of Character Defining Elements

Annex M – Summary of Key Findings and Recommendations during the Monthly Site Audits

Date of Audit	Comments / Remarks
1, 5, 6, 7, 11, 12, 13, 14, 18, 19, 20, 22, 25, 26, 27 and 28 November 2013	• It was noticed that the timber battens of Block 3 roof were not stored properly on the roof; • Cigarette buds were observed at the first floor Room 01/F/27 in Block 1; • A newly installed window 01/WG/37 was observed damaged due to lack of protection after installation; • It was observed that construction debris from WP214 was falling from high level scaffold and hitting timber windows in Block 1; and • Lack of protection was observed for the timber floor from staircase area to the ground floor of Block 6.
3, 4, 5, 6, 9, 10, 11, 12, 16, 17, 18, 19, 30 and 31 December 2013	• It was noted that Window 01/WLG2/14 in Block 1 has been installed and provided with architrave. Architrave on this window did not comply with the contract repair drawing and the Contractor has been informed; • It was observed that the metal scaffold in Block 7 hit the timber window 07/WF/01; • Lack of protection was observed for the timber floor boards for Block 6 staircase 06/G/ST02; • It was observed that windows 01/WG/31 and 01/WG/20 in Block 1 have been installed and provided with privacy film. The privacy film on the windows did not comply with the contract drawings and the Contractor has been informed; and • Lack of protection was observed for the timber windows and doors in Block 1.
2, 3, 6, 7, 8, 9, 10, 13, 14, 15, 16, 17, 20, 21, 22, 23, 24 and 28 January 2014	• Request for inspection for timber window frames in Block 1 was made but it was not yet ready for inspection; • It was observed that hacking off of plasterwork for concealed conduits was being carried out without any protections to the Character Defining Elements (CDEs); • Installation of window frames at Block 3 was not in accordance with contract documents; • It was observed that the new shutters and windows were fitted with open joints; and • Damages to doors in Block 1 first floor was observed due to lack of protection.
4, 5, 6, 7, 10, 11, 12, 13, 14, 17, 18, 19, 20, 21, 24, 25, 26, 27 and 28 February 2014	• Insufficient protection was observed for some CDEs, for example, some timber elements are yet to be provided with protection sheets; and • It was observed that privacy film to Block 1 lower ground floor timber windows and doors did not comply with the contract documents. The Contractor was informed immediately.
3, 4, 5, 6, 7, 10, 11, 12, 13, 14, 17, 18, 19, 20, 21, 24, 25, 26, 27, 28 and 31 March 2014	• It was observed that the brickwork was covered by the paint from the façade at Block 1 north elevation; • It was observed that the plaster cornice repair was not in compliance with the specification; • One of the mock-up sprinklers of Block 1 ground floor was observed clashing with ceiling hooks; • Door 01/DLG1/74 opening to new partition was in an incorrect height. The Contractor was informed to follow-up; • It was observed that the staircase setting out in Block 11 was incorrect. The Contractor was informed to follow-up;

Date of Audit	Comments / Remarks
	• Door 01/DG/72 opening size to new partition was incorrect. The Contractor was informed to follow-up; • It was observed that new casements size of window has been made about 10mm smaller than the frame size at Block 1 north and west elevation windows, which is non-compliance with approved shop drawings and requires rectifications. It was also noted that some windows could not shut properly. Adjustment of casements is required; and • It was observed that the top coat paint to Block 1 north elevation was being applied without adequate protection to adjacent brickwork.
1, 2, 3, 4, 7, 8, 9, 10, 11, 14, 15, 16, 17, 22, 23, 24, 25, 28, 29 and 30 April 2014	• It was observed that the contractor was painting the lower part of the north elevation of Block 1 in rain, which is not in accordance with specification. Paint subsequently failed and required to be re-painted; and • It was observed that some Block 1 windows were not installed correctly. Windows do not shut and large gaps were seen between frame and window. The Contractor was informed to follow up.
2, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 20, 21, 22, 23, 26, 27, 28, 29 and 30 May 2014	• Concrete spillage was observed on roof of Block 1 from the tower crane. The Contractor was informed to follow up; and • It was observed that incorrect downpipes were fixed to wall at Block 1 north verandah. The Contractor was informed to follow up.
3, 4, 5, 6, 9, 10, 11, 12, 13, 16, 17, 18, 19, 20, 23, 24, 25, 26, 27 and 30 June 2014	• It was observed that the new brickwork infill below 01/WG/19 of Block 1 was in a poor workmanship condition. The Contractor was informed to follow up; • Colour differences between new bricks and approved sample, new mortar repair and existing brickwork were observed for the brickwork repairs at Block 1 south elevation top two lifts. The Contractor was informed to follow up; • It was observed that the floor drains of Block 1 balconies did not comply with contract documents. The Contractor was informed to follow up; • It was observed that the metalwork repairs and finish of Block 7 north balcony did not comply with contract documents. The Contractor was informed to follow up; • The timber handrails and concrete cornices at Block 7 balcony were observed being covered with black paint and white primer due to lack of protection. The Contractor was informed to follow up; and • The shop drawing submission of the Block 1 glass balustrade did not comply with the previous comments from conservation architect. The Contractor was informed to follow up.
2, 3, 4, 7, 8, 9, 10, 11, 14, 15, 16, 17, 18, 21, 22, 23, 24, 25, 28, 29, 30 and 31 July 2014	• No protection was carried out at Block 4 during demolition works. The Contractor was informed to follow up; • It was observed that the west elevation of Block 9 was full of paint residual after canopy soffit paint removal. The Contractor was informed to follow up; • It was observed that timber floor on second floor balcony in Block 10 was lack of protection. The Contractor was informed to follow up;

Date of Audit	Comments / Remarks
	• It was observed that the timber picture rail sections in Block 4 verandah were without any protection. The Contractor was informed to follow up; • Insufficient protection was observed at Block 9 during the propping of floors in central entrance area. The Contractor was informed to follow up; • Two painted signs on the second floor of Block 3 were observed unprotected and covered in duct tape. The Contractor was informed to follow up; • Timber floor boards at Block 6 were observed unprotected in the passageway. The Contractor was informed to follow up; and • It was observed that water was running through the timber floor on first floor of Block 4 while the Contractor was cutting steel beams. Works were stopped immediately and the Contractor was informed to follow up.
1, 4, 12-15, 18, 20, 21, 26 August 2014	• Lack of protection was observed for the painted signs in Block 3. The Contractor was informed to follow up; • It was observed that the chimney piece in Block 3 was not protected and damaged during the works. The Contractor was informed to follow up; • It was observed that the method of removing the glazing tiles from Block 1 corridor was not in accordance with the requirements of the contract. The Contractor was informed to follow up; • Poor workmanship of new brickwork infill was observed at the west elevation of Block 1. The Contractor was informed to follow up; • Lack of protection to CDEs in Block 9 was observed. The Contractor was informed to follow up; and • It was observed that there is lack of protection to timber windows during the floor demolition in Block 6. The Contractor was informed to follow up.
1-5, 8, 10-12, 15, 17-19, 22-26, 29-30 September 2014	• It was observed that one section of the timber cornice to Block 6 east balcony was laid on the top of the scaffold without protection. The Contractor was informed to follow up; and • It was observed that the holding cell to Block 9 lower ground floor area was being used as a rubbish store. The Contractor was reminded to clear the rubbish immediately.
3, 6-10, 13-17, 20-24 and 27-31 October 2014	• It was observed that materials were being piled up against the recently uncovered historic painted wall in Block 10. The Contractor was reminded to provide protective barriers for the painted wall; • It was observed that existing rainwater pipe brackets at Blocks 6 and 7 were tipped from site. The Contractor was informed to follow up; • No protection was observed for the timber frame at Block 7 during chasing brickwork on the internal walls. The chasing work was stopped immediately and the Contractor was informed to follow up; • It was observed that the brown glazed wall tiles were not fully protected at lower ground floor at Block 1. No protection was

Date of Audit	Comments / Remarks
	also observed for the internal plastered walls during drilling works. The Contractor was informed to follow up; • A number of issues were observed, for example, walls were not built correctly and ceilings were not finished before services installation. The Contractor was informed to follow up; • It was observed that there was no protection to the internal spaces at Block 14 during the demolition of the roof slab. The Contractor was informed to follow up; and • It was observed that the scaffold to the east elevation of Block 9 was fixed into the facing brickwork. The Contractor was informed to follow up.

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
Positive	**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.
	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.

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

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

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

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

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

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.013	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

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

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

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

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		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

02 Armoury

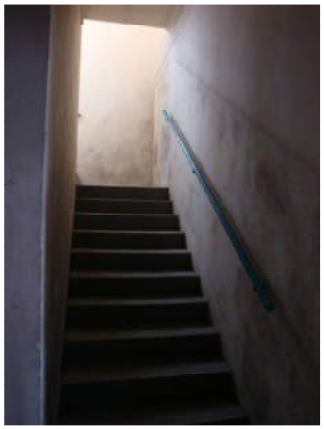
Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
02.001	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High
02.002	Modern internal doors		Adverse	Remove	Not applicable	High

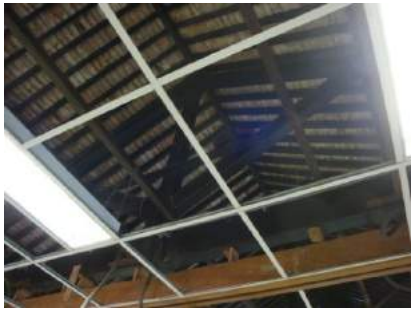
Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
02.003	Modern partitions		Adverse	Remove	Not applicable	High
02.004	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High

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

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

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

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

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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.014	Painted signs		High	Protect in situ	Not applicable	N/A
03.015	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
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

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

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

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

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

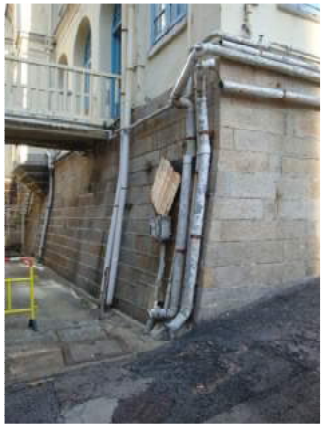
Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.005	Exterior decorations		Adverse	Strip off and redecorate	Sample and analyse existing paint media; select new media to suit substrate and significance	High

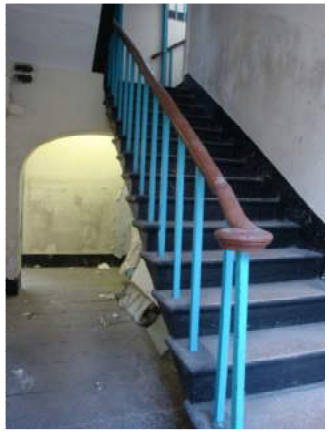
Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.006	Block existing door openings		Moderate	Block opening as part of re-planning of interior	Retain existing door frame and architraves. Use framing and non-combustible sheet linings to block opening.	Moderate

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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.014	Painted signs		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

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

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

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

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

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

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

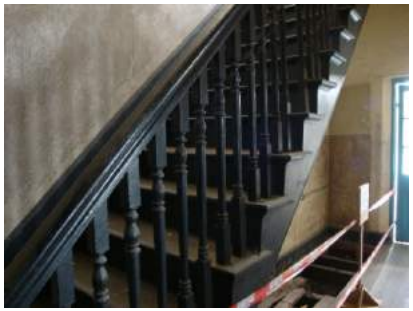
Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.003	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	Not applicable	High
06.004	Exterior decorations		Adverse	Strip off and redecorate	Sample and analyse existing paint media;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

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

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

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

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

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

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

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

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		Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A

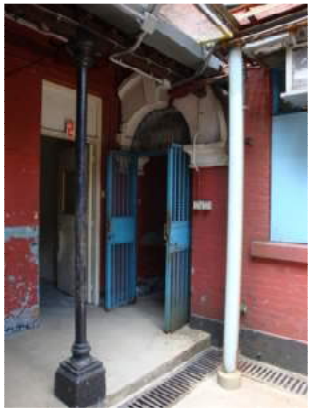
Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
07.015	Exposed roof tiling		Moderate	Retain as existing	Consider insulating between upper and lower layers of roof tiles to provide thermal insulation and vapour barrier	Low
07.016	Concrete floor		Adverse	Overlay with hardwood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

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

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

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		High	Protect in situ	Not applicable	N/A

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

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

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

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

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

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

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

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

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

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

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

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

10 Assistant Superintendent's Office

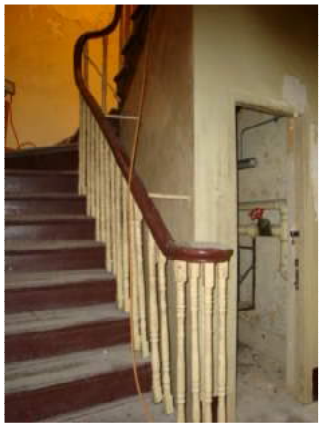
Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.001	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High
10.002	Plaster box cornice		Moderate	Remove in exceptional cases eg. Where adjacent new lift shafts	Cut back neatly to a square edge and ensure remaining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

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

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

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

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

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

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		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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact

14 D Hall East Wing

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.001	West entrance at Lower Ground 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

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

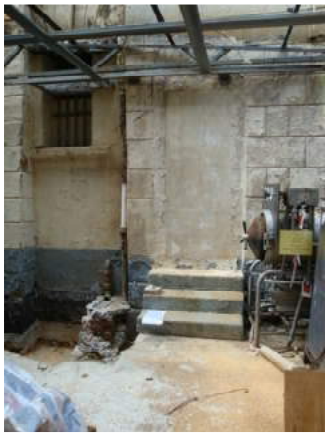
Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.003	Granite surround to cells (generally north side, alternating with brick surrounds – see next item)		Moderate	Retain door surround and gate wherever possible.	Pin back gate against wall. Remove paint media to expose granite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

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

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

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

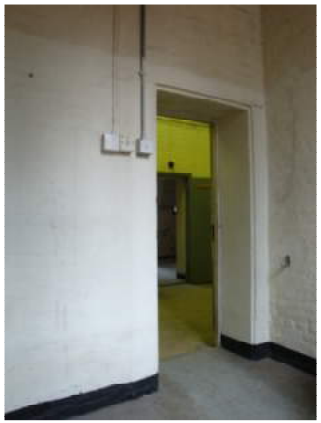
Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.011	Metal security gate and screen		Low	Retain insitu	Pin gate in open position if necessary	Neutral

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

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

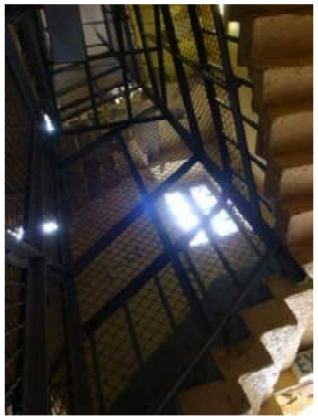
Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.021	Arched opening at east end		Low	Retain insitu	Not applicable	Neutral

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

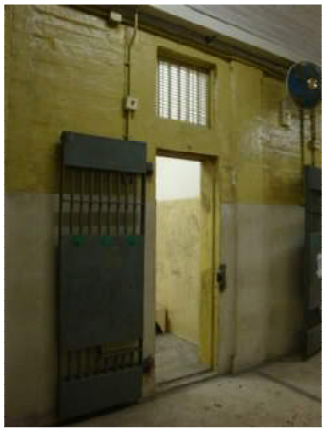
14 D Hall West Wing

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

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

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

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

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

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

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

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

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

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

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

17 F Hall

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

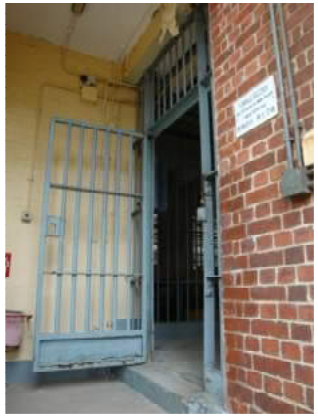
Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.002	Rainwater goods		Low	Remove existing RWPs and install new RWPs externally on North and South Elevations	Improve roof drainage to avoid ponding	Low
17.003	Exterior decorations		Adverse	Strip off and redecorate	Sample and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

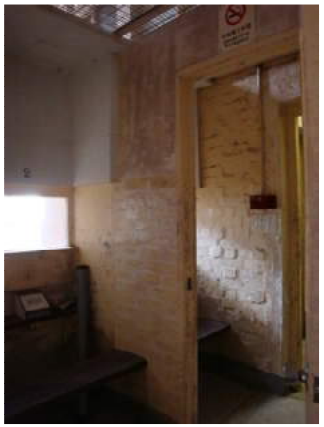
Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.004	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
17.005	Fixed signs		Moderate	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	Moderate

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

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

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

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

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

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

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

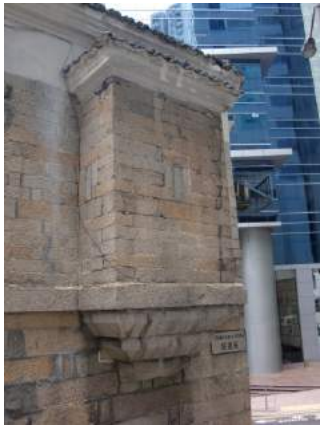
Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.024	Open Visit Room		Low	Space reallocated to other uses	Record on measured drawings. Salvage entrance sign and re-use in new layout of interview booths.	Low

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

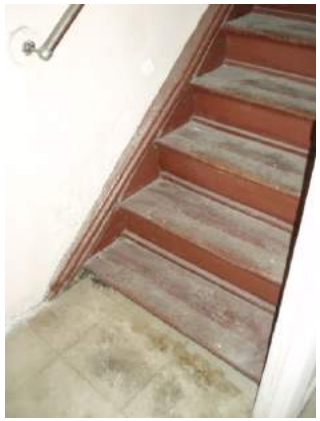
Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.005	Gun loops		High	Remove concrete infilling and make good stonework where necessary.	Not applicable	Moderate

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

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