

The Jockey Club CPS Limited

Central Police Station Conservation  
and Revitalisation Project:  
*First Quarterly EM&A Report*  
(24 October 2011 to 31 January 2012)

Issue Date: March 2012

**Environmental Resources Management**

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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: _____ 9 March 2012

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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 first quarterly Environmental Monitoring and Audit (EM&A) summary report presenting the EM&A works carried out during the period from 24 October 2011 to 31 January 2012 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 14 times
- Joint Environmental Site Inspection 3 times
- Joint Heritage Site Inspection 3 times
- Landscape & Visual Monitoring 3 times
- Tree Inspection 4 times
- Vibration monitoring (Initial Phase) at each monitoring station 1 time
- Vibration monitoring (Stage 1) at each monitoring station 9 times

### Noise

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

### Cultural Heritage

Nine vibration measurement events were carried out at each of the monitoring stations during the reporting period. No exceedance of Alert, Alarm and Action Levels was recorded during the reporting period.

Three heritage site inspections were conducted and the Contractor has generally implemented the necessary protection measures.

### Landscape & Visual

Landscape and visual monitoring has commenced since October 2011 on a monthly basis. Four tree inspections have been conducted by the arborist during the reporting period. A few observations were identified and mitigation measures were recommended for the Contractor to implement.

### Waste Management

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. 338.3 tonnes of inert C&D material was generated. 68.7 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. 64,243 kg of metals, 150 kg of paper/cardboard packaging and 6 kg of plastics were generated and were sent to recyclers for recycling. 2,400 kg of chemical waste (asbestos) was generated during the reporting period.

#### Environmental Site Inspection

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

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

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

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

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

No environmental complaint and summons/prosecutions was received in this reporting period.

# 1 INTRODUCTION

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

## 1.1 PURPOSE OF THE REPORT

This is the first quarterly EM&A summary report, which summarizes the impact monitoring results and audit findings for the EM&A programme during the reporting period from **24 October 2011 to 31 October 2011** and from **1 November 2011 to 31 January 2012**. It was agreed by the ET, IEC and the Contractor during the kick-off meeting to combine the October and November reports for the first EM&A report.

## 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 results obtained in the reporting period.

### Section 6 : **Waste Management**

summarises the quantity of construction and demolition (C&D) materials, chemical waste and recycled materials generated in the reporting period

**Section 7 : Environmental Site Inspection**

summarises the audit findings of the monthly site inspections undertaken within the reporting period.

**Section 8 : Environmental Non-conformance**

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

**Section 9 : 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 10 : 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* and illustrated in *Annex A3*.

**Table 2.1** *Summary of Construction Activities undertaken in this Reporting Period*

<b>Construction Activities Undertaken</b>
<ul style="list-style-type: none"><li>• Erection of hoarding/ site gantry at Arbutnot Road</li><li>• Precautionary works to buildings to be demolished (including Block 16&amp;18, Minor Buildings and Revetment Wall)</li><li>• Precautionary works for asbestos removal</li><li>• Sundry enabling/opening up works</li><li>• Trial pit setting out works</li><li>• Demolition works (Phase 1) – Block 8A &amp; 18 and minor structures</li><li>• Precautionary works to buildings to be demolished (Phase 2)</li><li>• Asbestos removal (Phase 1)</li><li>• Precautionary works for Asbestos removal (Phase 2)</li></ul>

**2.4** *CONSTRUCTION PROGRAMME*

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

**2.5** *PROJECT ORGANISATION AND MANAGEMENT STRUCTURE*

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

**2.6** *STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS*

A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project since the granting of the EP in April 2011 is presented in *Table 2.2*. An application for Variation of Environmental Permit was submitted by the Permit Holder on 20 December 2011 (Application No. VEP-350/2011) and the amended EP (No. EP-408/2011/A) was granted by EPD on 10 January 2012.

**Table 2.2 Summary of Environmental Licensing, Notification and Permit Status**

<b>Permit/ Licences/ Notification</b>	<b>Reference</b>	<b>Validity Period</b>	<b>Remarks</b>
Environmental Permit (EP)	EP-408/2011	Throughout the Contract	superseded by EP-408/2001/A
	EP-408/2011/A	Throughout the Contract	Permit granted on 10 January 2012
Notification of Construction Works as required under <i>Air Pollution Control (Construction Dust) Regulation</i>	Ref. No. 332920	Throughout the Contract	-
Registration of Waste Producer under <i>Waste Disposal Ordinance</i>	Waste Producer No.: 5213-122-G2347-25	Throughout the Contract	-
Effluent Discharge License under <i>Water Pollution Control Ordinance</i>	License No. WT00010633-2011	21 Oct 2011 - 31 Oct 2016	-
Notification of Commencement of Asbestos Abatement Work under <i>Air Pollution Control Ordinance</i>	-	Throughout the Contract	EPD's letter (EPD's ref.: (5) in EPAC/A/4/000/23 3 II) dated 2 December 2011 satisfied that the content of the asbestos abatement plan (Report No.: 0210/11/ED/0078A ) is in accordance with the APCO
Approval of Asbestos Abatement Work (Phase 2)	-	Earliest commencement date on 26 January 2012.	EPD's letter (EPD's ref.:() in EPAC/A/4/000/23 3) dated 18 January 2012.

### 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 monitoring programme for this reporting period is shown in *Annex D*.

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

#### 3.1.3 Monitoring Equipment and Methodology

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



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

**Table 3.2** *Noise Monitoring Equipment*

Monitoring Stations	Monitoring Equipment (Sound Level Meter and Calibrator)
NM2, NM6	<u>Calibrator</u> Rion NC-73 (S/N 10997142)  <u>Sound Level Meter</u> Rion-NA27 (S/N 00201194), or RION-NL31 (S/N 00603867), or Rion-NL52 (S/N 00710259)

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	Noise Criteria, $L_{eq(30mins), dB(A)}$	Remark
NM2	75	Applicable during 0700 – 1900 hours, Monday to Saturday.
NM6	75	Applicable during 0700 – 1900 hours, Monday to Saturday.

The Event / Action Plan (EAP) for noise monitoring is 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.

There are five phases/stages of vibration monitoring to be carried out, namely Initial Reading Phase (ie baseline monitoring), Monitoring Stage 1, Monitoring Stage 2, Monitoring Stage 3 and Monitoring Stage 4. The monitoring location is shown in *Annex L*.

A set of initial readings was recorded at least three days prior to commencement of each stage of demolition works. Vibration monitoring was conducted on the days with demolition works. The vibration

measurement was conducted for duration of 5 minutes at each location with demolition works.

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*

<b>Instrument Type</b>	<b>Item Monitored</b>	<b>Alert Level</b>	<b>Alarm Level</b>	<b>Action Level</b>
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*

<b>Events</b>	<b>Action</b>
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

### **3.3** *LANDSCAPE AND VISUAL MONITORING*

In accordance with the EM&A Manual, inspections of affected trees were conducted on monthly basis 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.

## IMPLEMENTATION STATUS ON ENVIRONMENTAL MITIGATION MEASURES

The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Report, EM&A Manual and EP. The implementation status of the measures during the reporting period is summarised in *Annex G*.

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

**Table 4.1** *Status of Required Submissions*

EP Condition	Submission	Submission Date
Condition 1.11	Notification on Commencement of Construction of the Project	8 September 2011
Conditions 2.1 and 2.2	Notification on ET Leader and IEC employed	2 September 2011
Condition 2.3	<ul style="list-style-type: none"> <li>• Deposition of “Proposal of Procedures for Handling Enquiries, Complaints and Request for Information Concerning the Environmental Effects of Construction Works of the Project”</li> <li>• Revised Proposal of Handling Procedures for Enquiries, Complaints and Request for Information Concerning the Environmental Effects of Construction Works of the Project</li> </ul>	<ul style="list-style-type: none"> <li>• 23 November 2011</li> <li>• 13 January 2012</li> </ul>
Condition 2.4	Notification on Management Organization of the Main Construction Company	6 October 2011
Condition 2.5	Deposition of Construction Programme and Location Plan	7 October 2011
Condition 3.3	Submission of Baseline Monitoring Report Submission of revised Baseline Monitoring Report	7 October 2011 1 February 2012
Condition 3.4	<ul style="list-style-type: none"> <li>• First Monthly EM&amp;A Report</li> <li>• Second Monthly EM&amp;A Report</li> <li>• Third Monthly EM&amp;A Report</li> </ul>	<ul style="list-style-type: none"> <li>• 14 December 2011</li> <li>• 14 January 2012</li> <li>• 14 February 2012</li> </ul>
Appendix, Part A, Condition 2(d)	Cartographic Drawings and Photographic Records of Building 5, 16 & 18	18 January 2012
Appendix, Part A (2) (i)	Submission of Archaeological Investigation Report	20 September 2011
Appendix, Part A, Condition 2(k)	<ul style="list-style-type: none"> <li>• Method Statement for Vibration Monitoring for Demolition Works</li> <li>• Baseline Condition Survey Report</li> </ul>	<ul style="list-style-type: none"> <li>• 19 January 2012</li> <li>• 31 January 2012</li> </ul>
Appendix, Part A (2) (l)	Audit Proposal on Heritage Aspect	21 October 2011

### 5.1 NOISE

A total of 14 sets of 30-minute construction noise measurements were carried out at each monitoring station, NM2 and NM6, during normal weekdays of the reporting period. The monitoring results together with graphical presentations are presented in *Annex H*. The local impacts observed near the monitoring stations of NM2 and NM6 were summarized below:

- NM2: construction noise from activities from surrounding and the Project Site including scaffolding, drilling and the use of compressor and breaker and traffic noise from Old Bailey Street.
- NM6: construction noise from activities from surrounding and the Project Site including the use of compressor and breaker and traffic noise from Chancery Lane and Arbuthnot Road.

No exceedance of the limit level was recorded during the reporting period.

### 5.2 LANDSCAPE AND VISUAL MONITORING

Four monthly tree inspections were conducted by the arborist during the reporting period. 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. It was confirmed that the necessary landscape and visual mitigation measures as summarised in *Annex G* were implemented by the Contractor except those summarised in *Table 5.1* recorded during the site inspection.

Tree inspection by the arborist was conducted on 27 October 2011, 24 November 2011, 19 December 2011 and 30 January 2012 and major findings and recommendations in the reporting period are summarized in *Table 5.1*.

**Table 5.1 Findings of Monthly Tree Inspection in the Reporting Period**

Tree No.	Botanical Name	Overall Health Condition	Arborist's Observation / Recommendations
<i>27 October 2011</i>			
Tree -5	<i>Mangifera indica</i>	Good	<ul style="list-style-type: none"> <li>• To remove the cleaning tools away from the planter.</li> <li>• To clear the rubbish at the planter.</li> <li>• To link up the protective fence.</li> </ul>
Tree -6	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> <li>• To remove the construction debris away from the planter.</li> <li>• To clear the rubbish at the planter.</li> </ul>

Tree No.	Botanical Name	Overall Health Condition	Arborist's Observation / Recommendations
Tree-7	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> <li>To remove the trolley away from the cordon area.</li> </ul>
Tree-8	<i>Plumeria rubra</i>	Fair	<ul style="list-style-type: none"> <li>To remove the broom away from the planter</li> </ul>
Tree-9	<i>Araucaria cunninghamia</i>	Fair	<ul style="list-style-type: none"> <li>To remove the construction debris away from the planter</li> </ul>
Tree-11	<i>Dracaena marginata</i>	Fair	<ul style="list-style-type: none"> <li>To clear all the under-growth at the planter.</li> <li>To remove the rubbish away from the planter.</li> <li>To clear the under-growth at the planter.</li> <li>To remove the rubbish away from the planter.</li> <li>To install protective fence 1.2m height surrounding the tree and fence wraps with reflex mesh</li> </ul>

#### 24 November 2011

Tree -5	<i>Mangifera indica</i>	Good	The planter is clean and tidy
Tree -6	<i>Aleurites moluccana</i>	Fair	The planter is clean and tidy
Tree-7	<i>Aleurites moluccana</i>	Fair	The planter is clean and tidy
Tree-8	<i>Plumeria rubra</i>	Fair	The planter is clean and tidy.
Tree-9	<i>Araucaria cunninghamia</i>	Fair	The planter is clean and tidy.
Tree-11	<i>Dracaena marginata</i>	Fair	The planter is clean and tidy.
General recommendation for all trees			To erect protective fence 2.5m high beyond the crown spread or the designated protection zone of all existing trees. The protection fence shall come with a padlocked door, access to it shall be restricted only to workers directly involved in tree work. No construction equipment or materials shall breach the cordon zone (CZ). No heat or fume shall drift into the CZ. No lifted materials shall sail above the CZ.

#### 19 December 2011

Tree -5	<i>Mangifera indica</i>	Good	-
Tree -6	<i>Aleurites moluccana</i>	Fair	-
Tree-7	<i>Aleurites moluccana</i>	Fair	To remove rubbish from the planter
Tree-8	<i>Plumeria rubra</i>	Fair	-
Tree-9	<i>Araucaria cunninghamia</i>	Fair	To cut off the barbed wire from the tree
Tree-11	<i>Dracaena marginata</i>	Fair	The door of the building should be always locked Removal of the temperate fence is recommended

#### 30 January 2012

Tree -5	<i>Mangifera indica</i>	Good	<ul style="list-style-type: none"> <li>To keep the scaffold a reasonable</li> </ul>
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Tree No.	Botanical Name	Overall Health Condition	Arborist's Observation / Recommendations
			distance from the tree. <ul style="list-style-type: none"> <li>To display a sign of "Tree Protection Zone" in front of wire-netted fence.</li> </ul>
Tree -6	<i>Aleurites moluccana</i>	Fair	-
Tree-7	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> <li>To keep the scaffold a reasonable distance from the tree.</li> <li>To remove a dead branch from the tree.</li> </ul>
Tree-8	<i>Plumeria rubra</i>	Fair	-
Tree-9	<i>Araucaria cunninghamia</i>	Fair	<ul style="list-style-type: none"> <li>The barbed wire has been removed from the tree.</li> </ul>
Tree-11	<i>Dracaena marginata</i>	Fair	<ul style="list-style-type: none"> <li>The door of the building is locked and the temporary fence has been removed.</li> <li>To remove a few rubbish from the planter.</li> <li>Regular watering (twice a week) is recommended.</li> </ul>

### 5.3 CULTURAL HERITAGE

#### 5.3.1 Vibration Monitoring

The vibration monitoring commenced in December 2011. An Initial Reading Phase monitoring (ie baseline monitoring) at each monitoring station for Stage 1 monitoring was conducted on 23 December 2011 and a total of nine vibration monitoring were conducted on 7 to 17 January 2012 for Stage 1 monitoring for the demolition work at buildings E, F, G, H, N, R, 18 and 8a. As there were no demolition works carried out on 8, 15 and between 18 and 31 January 2012, no vibration monitoring was carried out during this period.

The records of vibration monitoring are shown in *Annex L*. All monitoring results were below the Alert/ Alarm/ Action Levels.

#### 5.3.2 Heritage Site Audit

Three monthly heritage site audits were conducted on 15 November 2011, 20 December 2011 and 17 January 2012 by the Heritage Checker. Follow-up actions were undertaken as reported by the Contractor and observed in the subsequent monthly site inspections conducted in the reporting period. Major site audit findings and recommendations are summarized below.

15 November 2011

- Reveals overhead canopy and gateway of the Blue gate were not protected. The Contractor was reminded to provide protection to overhead canopy with metal pole and fixed the reveals gateway with black & yellow tape for driver attention.

- Vehicle barriers should be installed at adjacent Service Corridor Block 01 to protect iron grinders at ground level. The Contractor has proposed the installation of a chain link protection fence to AMO and it will be installed once AMO approval was obtained.
- Parapet copings on balustrades should be protected when loading and unloading heavy plant/materials. The Contractor has proposed the installation of chain link protection fence to AMO and it will be installed once AMO approval was obtained.

20 December 2011

- Low level plinths to corners of buildings should be protected. The Contractor will provide protection accordingly and will prioritise the buildings where construction work is taking place nearby.

17 January 2012

- Lintel protection was missing at the gate to the Southeast corner of F Hall. The Contractor was reminded to provide protection to the gate.

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 (public fill) and non-inert C&D materials. Non-inert C&D materials were made up of wastes such as general refuse. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting period are summarised in *Table 5.2*. The summary of Waste Flow Table prepared by the Contractor is shown in *Annex J*. The non-inert C&D materials and general refuse generated from the Project were disposed of at the SENT Landfill, respectively. 64,243 kg of metals, 150 kg of paper/cardboard packaging and 6 kg of plastics were sent to recyclers for recycling during the reporting period.

**Table 5.2 Quantities of Waste Generated from the Project**

Month / Year	Quantity						
	C&D Materials (inert) (tonnes) <sup>(a)</sup>	C&D Materials (non-inert) (tonnes) <sup>(b)</sup>	Chemical Waste		Recycled materials		
			Liquid (L)	Solid (kg)	Paper/cardboard (kg)	Plastics (kg)	Metals (kg)
Oct – Nov 2011	0	33.5	0	0	38	6	36,423 <sup>(c)</sup>
Dec 2011	0	18.3	0	0	112	0	24,000 <sup>(c)</sup>
Jan 2012	338.3	16.9	0	2,400 <sup>(d)</sup>	0	0	3,820
<b>Total</b>	<b>338.3</b>	<b>68.7</b>	<b>0</b>	<b>2400</b>	<b>150</b>	<b>6</b>	<b>64,243</b>

**Notes:**

- (a) Inert C&D materials (public fill) 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.
- (c) The waste flow data for Oct – Nov 2011 and Dec 2011 was updated in January 2012 based on the updated data from the Contractor.
- (d) Asbestos removed from asbestos abatement work in January 2012.

**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 minimizing environmental impacts.

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



Three monthly site inspections were conducted on 15 November 2011, 20 December 2011 and 17 January 2012 during the reporting period. There was no non-compliance recorded during the site inspections. Major site audit findings and recommendations are summarized below. Follow-up actions were undertaken as reported by the Contractor and observed in the subsequent monthly site inspections conducted in the reporting period.

15 November 2011

- The EP was found to be displayed only at the vehicle entrance. The Contractor was recommended to display the EP at all entrances (including the staff and worker entrance).
- A sweeper and plastic garbage bag were observed near tree to be protected (T7) at the Prison Yard. The Contractor was recommended to remove the sweeper immediately and to avoid placing or store any equipment/ materials on the root of the trees to be protected.
- The waste skips at the Parade Ground were found not labelled. The Contractor was recommended to provide proper labels to all waste skips.
- An unused chemical store was found not labelled at the material storage area at the Parade Ground. The Contractor was recommended to provide proper labelling to the chemical store according to the EPD's Code of Practice on the Packaging, Handling and Storage of Chemical Wastes.

20 December 2011

- An opening without cover was observed on a water barrier at the Prison Yard. The Contractor was reminded to cover the opening to avoid the accumulation of stagnant water during rain event.
- The chemical waste store at the Parade Ground was observed to be surrounded by obstacles. The Contractor was recommended to provide proper access to the chemical waste store and relocate the obstacles.

17 January 2012

- Recycling water storage tank filled with water was observed near the General Office (Block 18), Ablutions Block (Block 8) and F Hall (Block 17). The Contractor was reminded to clear the storage water or to provide cover to the water storage tank to prevent mosquito breeding.

**7.1.1 *Summary of Monitoring Exceedance***

No exceedances of Action and Limit Levels of construction noise and Alert, Alarm and Action Levels of vibration monitoring were recorded during this reporting period.

**7.1.2 *Summary of Environmental Non-Compliance***

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

**7.1.3 *Summary of Environmental Complaint***

No complaint was received during the reporting period. The cumulative summons/prosecution log is shown in *Annex K*.

**7.1.4 *Summary of Environmental Summon and Successful Prosecution***

No summonses were received during the reporting period. The cumulative summons/prosecution log is shown in *Annex K*.

## 8.1 NOISE

A comparison was made between the monitoring results from the start of the Project 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 <sub>wq, 30 min</sub> dB(A)	L <sub>wq, 30 min</sub> dB(A)	L <sub>wq, 30 min</sub> dB(A)
Oct - Nov 2011	NM2	N2	75	67 - 72	62.6 – 65.4
	NM6	N6	75	73 - 75	62.6 – 66.0
December 2011	NM2	N2	75	67 - 72	64.3 – 68.4
	NM6	N6	75	73 - 75	63.2 – 68.0
January 2012	NM2	N2	75	67 - 72	63.4 – 68.5
	NM6	N6	75	73 - 75	61.9 – 72.1

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 within the estimated amount in EIA. The major chemical waste generated during this reporting period was majorly 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 <sup>(a) (b)</sup>
Amount of C&D Materials (Inert) Arising	16,440 m <sup>3</sup>	190.13 m <sup>3</sup>
Amount of C&D Materials (Non-inert) Arising	890 m <sup>3</sup>	112.13 m <sup>3</sup>
General Refuse	130 kg per day	- <sup>(c)</sup>
Chemical Waste	Less than 100L per month	- no liquid chemical waste generated. - 2,400 kg of asbestos generated

**Notes:**

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

(b) The volume of waste materials are provided by the Contractor based on the updated waste record in January 2012.

(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.

This first Quarterly EM&A Report presents the EM&A works undertaken during the reporting period from 24 October 2011 to 31 October 2011 and from 1 November to 31 January 2012 in accordance with EM&A Manual and requirements of EP (EP-408/2011/A).

No exceedance of Action and Limit Levels of construction noise was recorded at the monitoring stations during the reporting period.

Tree inspections were conducted in this quarterly period and no major findings were observed. Most of the necessary landscape and visual mitigation measures recommended in the EIA Report were implemented by the Contractor.

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

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

No complaint and summons/prosecution was received during the reporting period.

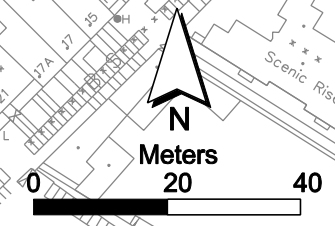
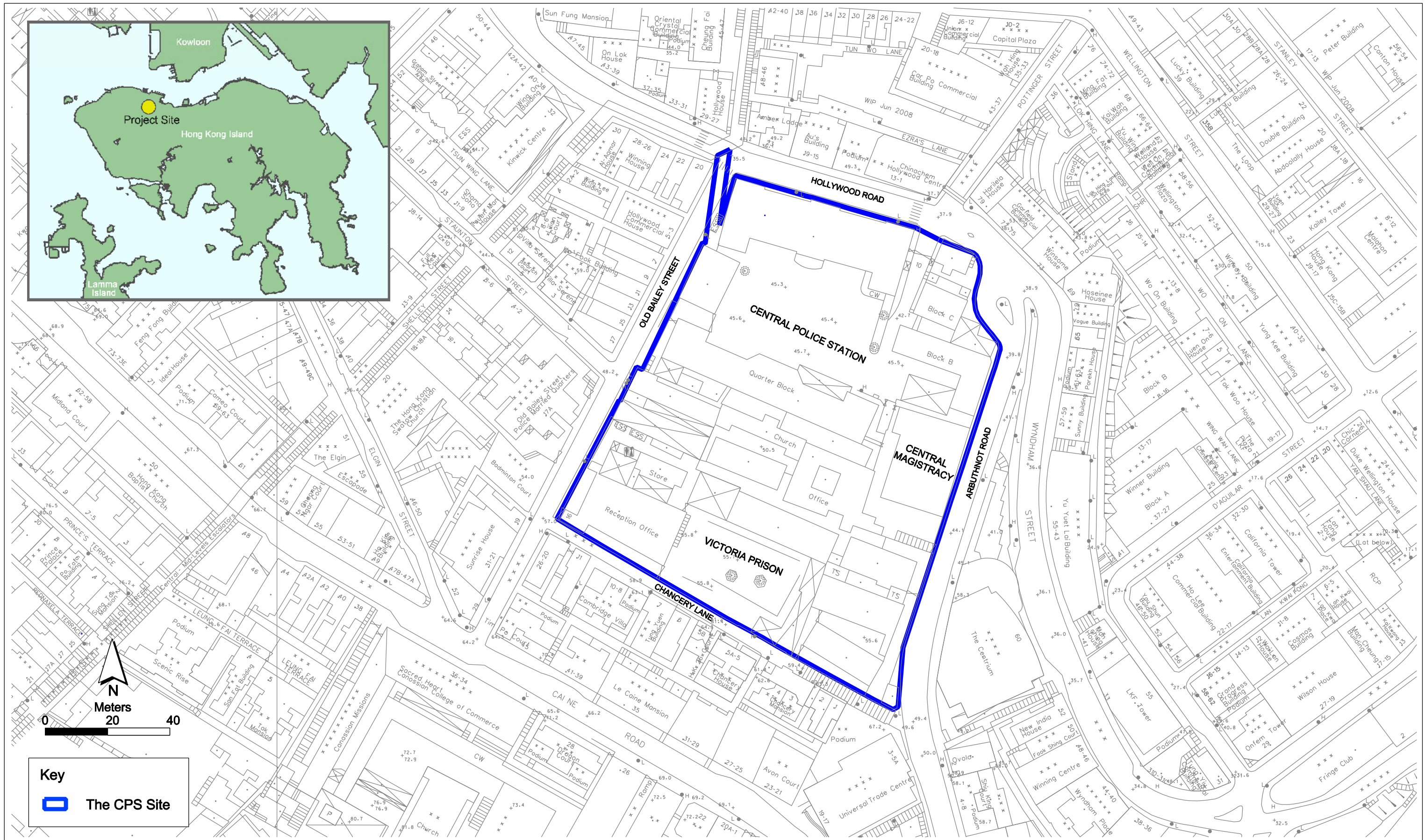
The monitoring programme was considered effective in reflecting the environmental conditions at the designated representative sensitive receivers. The monitoring results also indicate that the Project have not caused adverse impacts on the environment with implementation of appropriate mitigation measures.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



**Key**  
 The CPS Site

Annex A1

FILE: 0095646a-A3\_01.dgn  
 DATE: 21/11/2011

Project Location

**Environmental  
 Resources  
 Management**

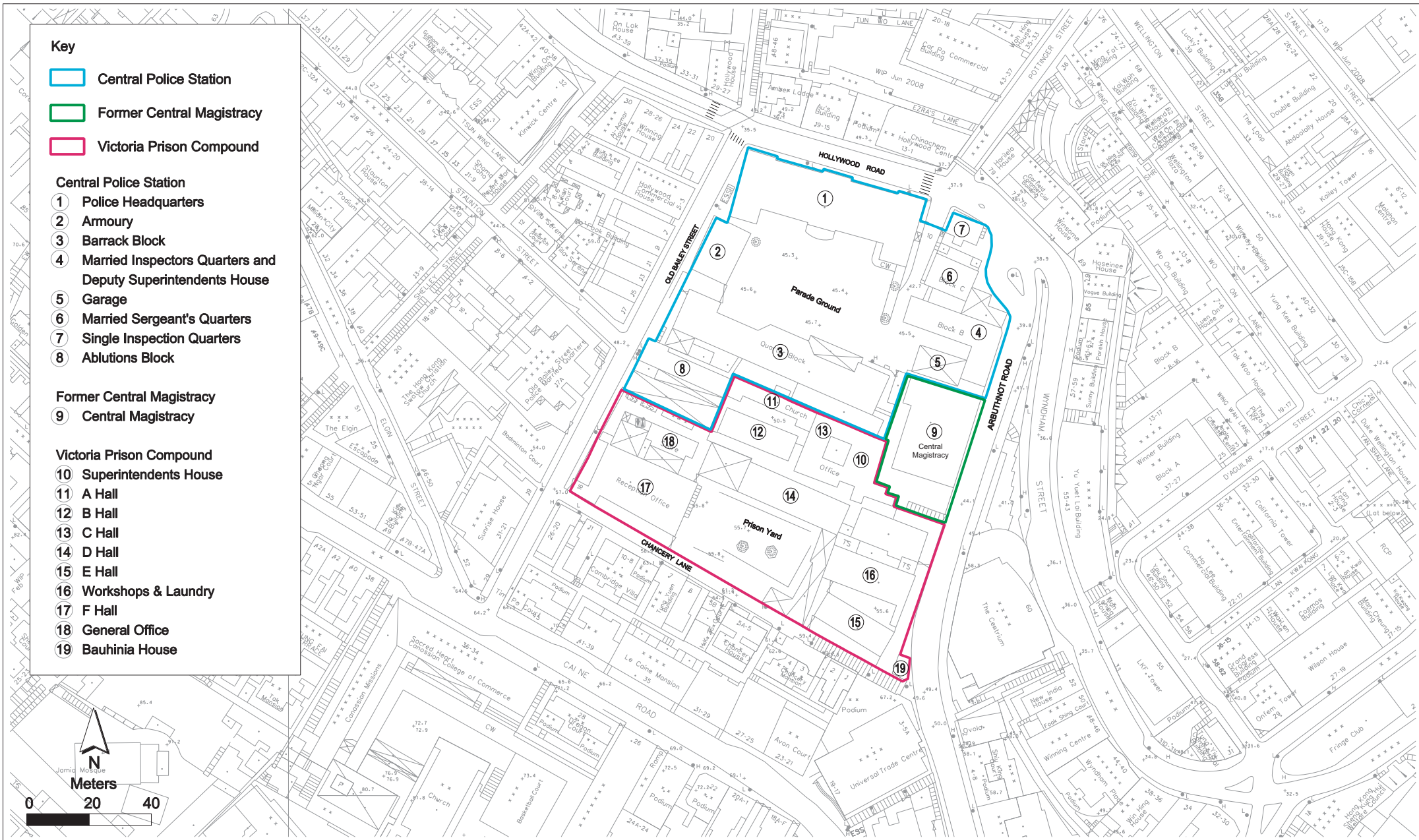


**賽馬會文物保育有限公司**  
 The Jockey Club CPS Limited



Annex A2

## Declared Monuments with the Project Site



- Key**
- Central Police Station
  - Former Central Magistracy
  - Victoria Prison Compound
- Central Police Station**
- ① Police Headquarters
  - ② Armoury
  - ③ Barrack Block
  - ④ Married Inspectors Quarters and Deputy Superintendents House
  - ⑤ Garage
  - ⑥ Married Sergeant's Quarters
  - ⑦ Single Inspection Quarters
  - ⑧ Ablutions Block
- Former Central Magistracy**
- ⑨ Central Magistracy
- Victoria Prison Compound**
- ⑩ Superintendents House
  - ⑪ A Hall
  - ⑫ B Hall
  - ⑬ C Hall
  - ⑭ D Hall
  - ⑮ E Hall
  - ⑯ Workshops & Laundry
  - ⑰ F Hall
  - ⑱ General Office
  - ⑲ Bauhinia House

Annex A2

Declared Monuments within the Project Site

**Environmental Resources Management**



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Annex A3

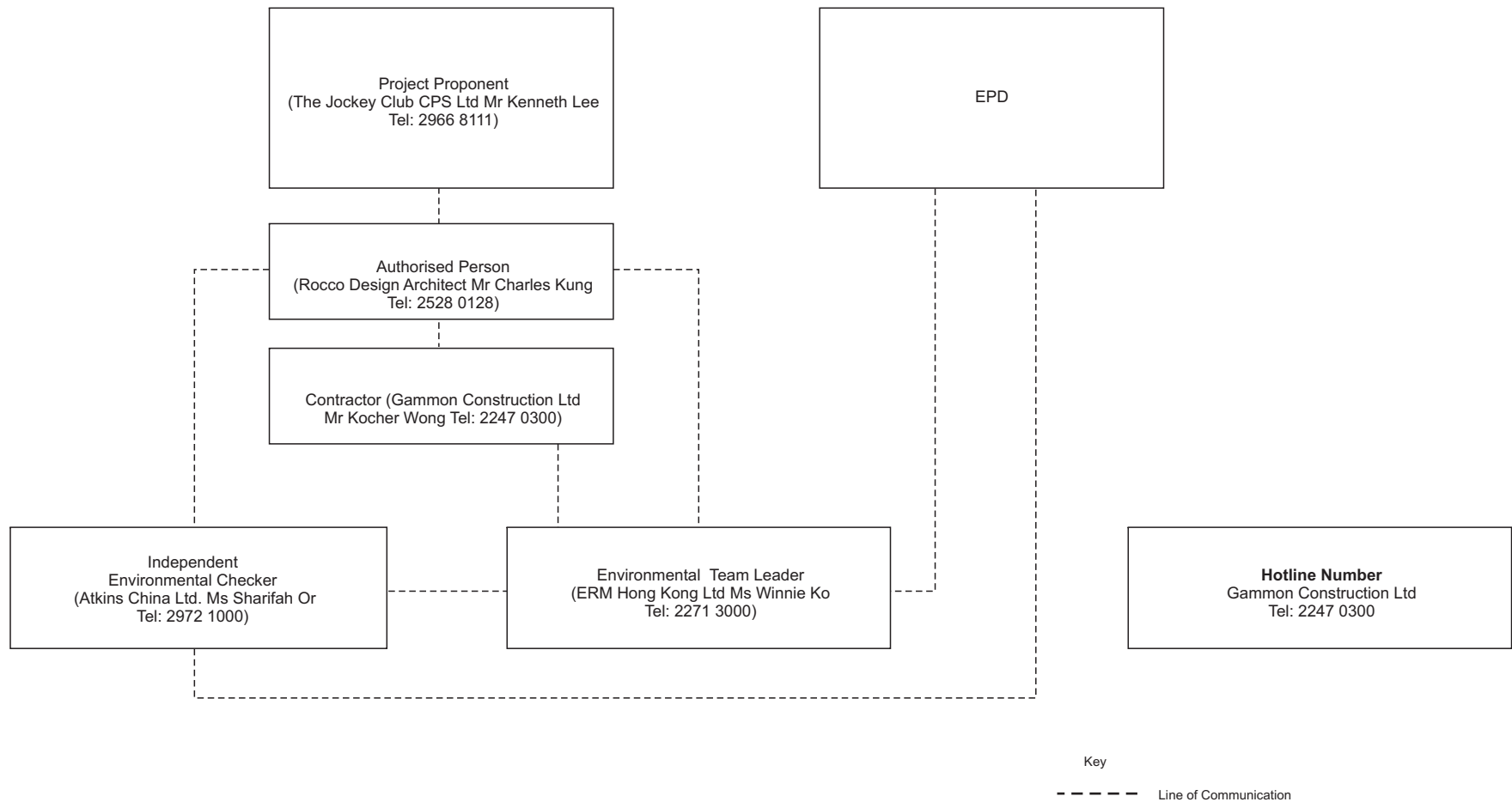
## Site Layout Plan marked with Works





Annex B

## Project Organization Chart and Contact Detail



Annex C

Locations of Noise  
Monitoring Stations and  
Noise Sensitive Receivers

**Key**

● Representative Noise Sensitive Receiver

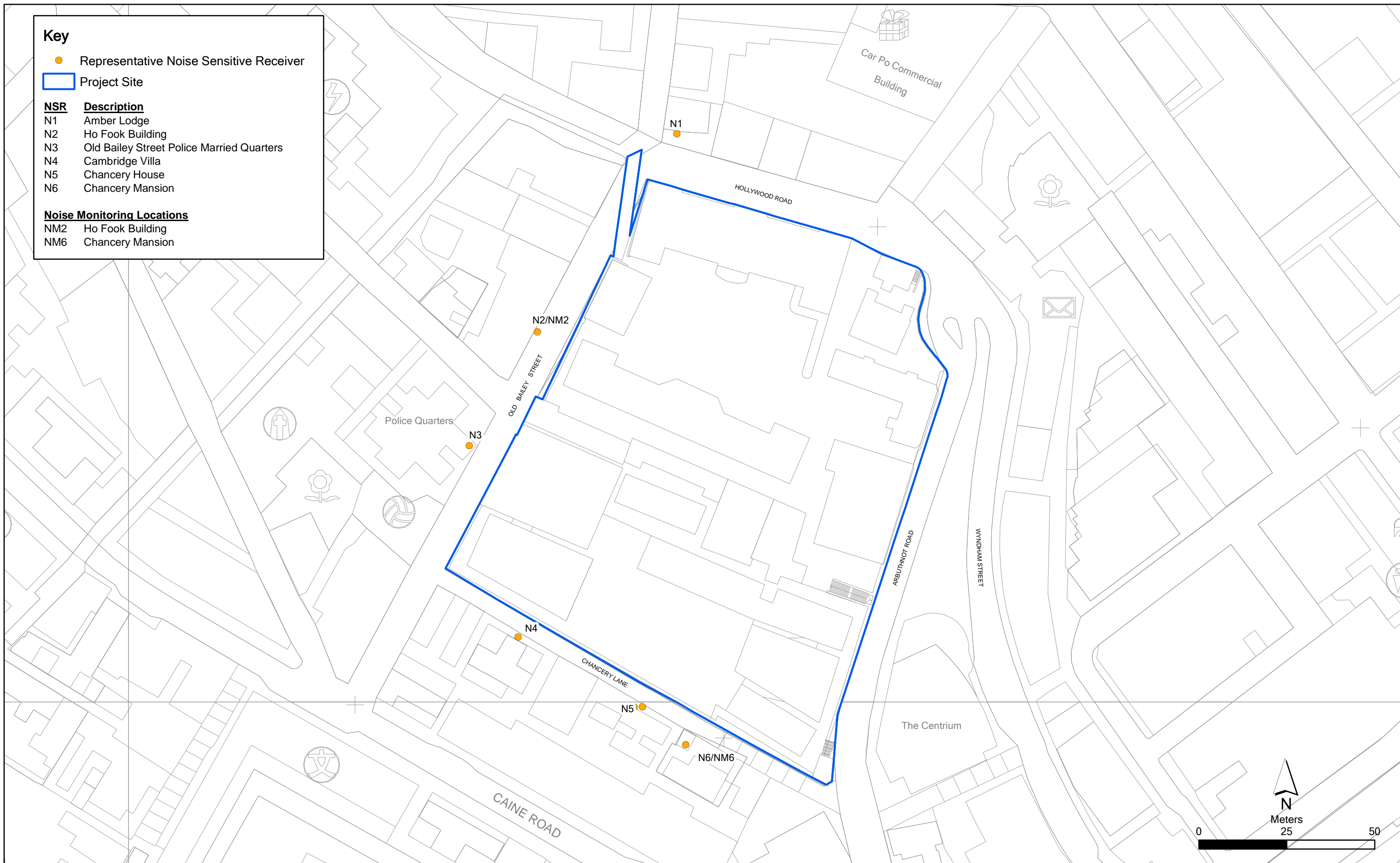
▭ Project Site

**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.mxd  
Date: 12/01/2012

Environmental Resources Management



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Annex D

## Monitoring Schedule of the Reporting Period

**Central Police Station Compound Coservation and Revitalisation  
(Ho Fook Building - N2 & Chancery Mansion - N6)  
Monitoring Schedule for Current Reporting Month -October 2011**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Oct
2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct
9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct
16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct
23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct
	Project commencement		Noise Monitoring at NM2 & NM6			
30-Oct	31-Oct					

**Central Police Station Compound Coservation and Revitalisation  
(Ho Fook Building - N2 & Chancery Mansion - N6)  
Monitoring Schedule for Current Reporting Month -November 2011**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Nov	2-Nov	3-Nov	4-Nov	5-Nov
		Noise Monitoring at NM2 & NM6				
6-Nov	7-Nov	8-Nov	9-Nov	10-Nov	11-Nov	12-Nov
	Noise Monitoring at NM2 & NM6					
13-Nov	14-Nov	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov
			Noise Monitoring at NM2 & NM6			
20-Nov	21-Nov	22-Nov	23-Nov	24-Nov	25-Nov	26-Nov
				Noise Monitoring at NM2 & NM6		
27-Nov	28-Nov	29-Nov	30-Nov			
			Noise Monitoring at NM2 & NM6			

**Central Police Station Compound Coservation and Revitalisation  
(Ho Fook Building - NM2 & Chancery Mansion - NM6)  
Monitoring Schedule for Current Reporting Month - December 2011**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Dec	2-Dec	3-Dec
4-Dec	5-Dec	6-Dec	7-Dec	8-Dec	9-Dec	10-Dec
		Noise Monitoring at NM2 & NM6				
11-Dec	12-Dec	13-Dec	14-Dec	15-Dec	16-Dec	17-Dec
	Noise Monitoring at NM2 & NM6					
18-Dec	19-Dec	20-Dec	21-Dec	22-Dec	23-Dec	24-Dec
			Noise Monitoring at NM2 & NM6			
25-Dec	26-Dec	27-Dec	28-Dec	29-Dec	30-Dec	31-Dec
				Noise Monitoring at NM2 & NM6		

**Central Police Station Compound Coservation and Revitalisation  
(Ho Fook Building - NM2 & Chancery Mansion - NM6)  
Monitoring Schedule for Current Reporting Month - January 2012**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	6-Jan	7-Jan
				Noise Monitoring at NM2 & NM6		
8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan
			Noise Monitoring at NM2 & NM6			
15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan
		Noise Monitoring at NM2 & NM6				
22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan
						Noise Monitoring at NM2 & NM6
29-Jan	30-Jan	31-Jan				

Annex E

# Calibration Reports for Calibrators and Sound Level Meters

Certificate No. : C113870

## *Certificate of Calibration*

*This is to certify that the equipment*

*Description : Sound Level Calibrator*

*Manufacturer : Rion*

*Model No. : NC-73*

*Serial No. : 10997142*

*has been calibrated for the specific items and ranges.*

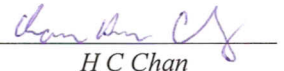
*The results are shown in the Calibration Report No. C113870.*

*The equipment is supplied by*

*Co. Name : Envirotech Services Co.*

*Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,  
Hong Kong*

*Date of Issue : 11 July 2011*

*Certified by :*   
H C Chan

Report No. : C113870

## Calibration Report

### ITEM TESTED

DESCRIPTION : Sound Level Calibrator  
MANUFACTURER : Rion  
MODEL NO. : NC-73  
SERIAL NO. : 10997142

### TEST CONDITIONS

AMBIENT TEMPERATURE :  $(23 \pm 2)^{\circ}\text{C}$  RELATIVE HUMIDITY :  $(55 \pm 20)\%$   
LINE VOLTAGE : ---

### TEST SPECIFICATIONS

Calibration

DATE OF TEST : 11 July 2011

JOB NO. : IC11-1713

### TEST RESULTS

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
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested by :

  
KC Lee

Date : 11 July 2011

The test equipment used for calibration are traceable to the National Standards as specified in this report.  
This report shall not be reproduced except in full and with prior written approval from this laboratory.



# Calibration Report

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours before the commencement of the test.
2. The results presented are the mean of 3 measurements at each calibration point.
3. Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
TST150A	Measuring Amplifier	C101008
CL130	Universal Counter	C113350
CL281	Multifunction Acoustic Calibrator	C1006860

4. Test procedure : MA100N.

5. Results :

- 5.1 Sound Level Accuracy

- 5.1.1 Before Adjustment

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	94.3	± 0.5	± 0.2

- 5.1.2 After Adjustment

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

- 5.2 Frequency Accuracy

- 5.2.1 Before Adjustment

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	0.991	1 kHz ± 2 %	± 1

- 5.2.2 After Adjustment

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	0.991	1 kHz ± 2 %	± 1

The test equipment used for calibration are traceable to the National Standards as specified in this report.  
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Report No. : C113870

## *Calibration Report*

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

Note :

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

---

The test equipment used for calibration are traceable to the National Standards as specified in this report.  
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited

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

Tel: 2927 2606

Fax: 2744 8986

E-mail: callab@suncreation.com

Website: www.suncreation.com

Certificate No. : C114103

## *Certificate of Calibration*

*This is to certify that the equipment*

*Description : Precision Sound Level Meter*

*Manufacturer : Rion*

*Model No. : NA-27*

*Serial No. : 00201194*

*has been calibrated for the specific items and ranges.  
The results are shown in the Calibration Report No. C114103.*

*The equipment is supplied by*

*Co. Name : Envirotech Services Co.*

*Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,  
Hong Kong*

*Date of Issue : 26 July 2011*

*Certified by :*

*K C Lee*

Report No. : C114103

## Calibration Report

### ITEM TESTED

DESCRIPTION : Precision Sound Level Meter  
MANUFACTURER : Rion  
MODEL NO. : NA-27  
SERIAL NO. : 00201194

### TEST CONDITIONS

AMBIENT TEMPERATURE :  $(23 \pm 2)^{\circ}\text{C}$  RELATIVE HUMIDITY :  $(55 \pm 20)\%$   
LINE VOLTAGE : ---

### TEST SPECIFICATIONS

Calibration check

DATE OF TEST : 22 July 2011

JOB NO. : IC11-1826

### TEST RESULTS

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
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested by :

  
H C Chan

Date : 26 July 2011

The test equipment used for calibration are traceable to the National Standards as specified in this report.  
This report shall not be reproduced except in full and with prior written approval from this laboratory.



## Calibration Report

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 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 measurement at each calibration point.

4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C110018
CL281	Multifunction Acoustic Calibrator	C1006860

5. Test procedure : MA101N.

6. Results :

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

6.1.1.1 Before Self-Calibration

UUT Setting			Applied Value		UUT Reading (dB)
Range (dB)	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
50 - 110	LA	Fast	94.00	1	94.1

6.1.1.2 After Self-Calibration

UUT Setting			Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 110	LA	Fast	94.00	1	94.0	± 0.7

6.1.2 Linearity

UUT Setting			Applied Value		UUT Reading (dB)
Range (dB)	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
60 - 120	LA	Fast	94.00	1	94.0 (Ref.)
			104.00		104.0
			114.00		114.0

IEC 60651 Type 1 Spec. : ± 0.4 dB per 10 dB step and ± 0.7 dB for overall different.

# Calibration Report

## 6.2 Time Weighting

### 6.2.1 Continuous Signal

UUT Setting			Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 110	LA	Fast	94.00	1	94.0	Ref.
		Slow			94.0	$\pm 0.1$

### 6.2.2 Tone Burst Signal (2 kHz)

UUT Setting			Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Frequency Weighting	Time Weighting	Level (dB)	Burst Duration		
50 - 110	LA	Fast	106.00	Continuous	106.0	Ref.
	LAmx			200 ms	105.0	$-1.0 \pm 1.0$
	LA	Slow		Continuous	106.0	Ref.
	LAmx			500 ms	102.0	$-4.1 \pm 1.0$

## 6.3 Frequency Weighting

### 6.3.1 A-Weighting

UUT Setting			Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 110	LA	Fast	94.00	31.5 Hz	54.4	$-39.4 \pm 1.5$
				63 Hz	67.8	$-26.2 \pm 1.5$
				125 Hz	77.8	$-16.1 \pm 1.0$
				250 Hz	85.3	$-8.6 \pm 1.0$
				500 Hz	90.7	$-3.2 \pm 1.0$
				1 kHz	94.0	Ref.
				2 kHz	95.2	$+1.2 \pm 1.0$
				4 kHz	95.0	$+1.0 \pm 1.0$
				8 kHz	92.9	$-1.1 (+1.5 ; -3.0)$
				12.5 kHz	89.7	$-4.3 (+3.0 ; -6.0)$

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.

# Calibration Report

## 6.3.2 C-Weighting

UUT Setting			Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 110	LC	Fast	94.00	31.5 Hz	91.0	-3.0 ± 1.5
				63 Hz	93.1	-0.8 ± 1.5
				125 Hz	93.8	-0.2 ± 1.0
				250 Hz	94.0	0.0 ± 1.0
				500 Hz	94.0	0.0 ± 1.0
				1 kHz	94.0	Ref.
				2 kHz	93.8	-0.2 ± 1.0
				4 kHz	93.2	-0.8 ± 1.0
				8 kHz	90.9	-3.0 (+1.5 ; -3.0)
				12.5 kHz	87.8	-6.2 (+3.0 ; -6.0)

## 6.4 Time Averaging

UUT Setting			Applied Value					UUT Reading (dB)	IEC 60804 Type 1 Spec. (dB)
Range (dB)	Mode	Integrating Time	Freq. (kHz)	Burst Duration (ms)	Burst Duty Factor	Burst Level (dB)	Equivalent Level (dB)		
50 - 110	LAeq	10 sec.	4	1	1/10	110.0	100	100.1	± 0.5
							90	90.1	± 0.5
		60 sec.					80	80.0	± 1.0
							70	70.0	± 1.0
		5 min.			1/10 <sup>4</sup>				

Remarks : - Mfr's Spec. : IEC 60651 Type 1 & IEC 60804 Type 1

- Uncertainties of Applied Value : 94 dB : 31.5 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)  
 Burst equivalent level : ± 0.2 dB (Ref. 110 dB continuous sound level)

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

### Note :

The values given in this Calibration Report 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.



Certificate No. : C113827

## *Certificate of Calibration*

*This is to certify that the equipment*

*Description : Sound Level Meter*

*Manufacturer : Rion*

*Model No. : NL-31*

*Serial No. : 00603867*

*has been calibrated for the specific items and ranges.  
The results are shown in the Calibration Report No. C113827.*

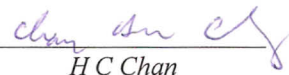
*The equipment is supplied by*

*Co. Name : Envirotech Services Co.*

*Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,  
Hong Kong*

*Date of Issue : 8 July 2011*

*Certified by :*

  
H C Chan



Report No. : C113827

## Calibration Report

### ITEM TESTED

DESCRIPTION : Sound Level Meter  
MANUFACTURER : Rion  
MODEL NO. : NL-31  
SERIAL NO. : 00603867

### TEST CONDITIONS

AMBIENT TEMPERATURE :  $(23 \pm 2)^{\circ}\text{C}$  RELATIVE HUMIDITY :  $(55 \pm 20)\%$   
LINE VOLTAGE : ---

### TEST SPECIFICATIONS

Calibration check

DATE OF TEST : 7 July 2011

JOB NO. : IC11-1657

### TEST RESULTS

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
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested by :

  
KC Lee

Date : 8 July 2011

The test equipment used for calibration are traceable to the National Standards as specified in this report.  
This report shall not be reproduced except in full and with prior written approval from this laboratory.

## Calibration Report

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
2. Self-calibration was performed before the test.
3. The results presented are the mean of 3 measurements at each calibration point.
4. Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL280	40 MHz Arbitrary Waveform Generator	C110018
CL281	Multifunction Acoustic Calibrator	C1006860

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 <sub>A</sub>	A	Fast	94.00	1	94.0	± 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 <sub>A</sub>	A	Fast	94.00	1	94.0 (Ref.)
				104.00		104.0
				114.00		113.9

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 <sub>A</sub>	A	Fast	94.00	1	94.0	Ref.
			Slow			93.9	± 0.3

## Calibration Report

### 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 <sub>A</sub>	A	Fast	94.00	63 Hz	67.7	-26.2 ± 1.5
					125 Hz	77.7	-16.1 ± 1.5
					250 Hz	85.3	-8.6 ± 1.4
					500 Hz	90.7	-3.2 ± 1.4
					1 kHz	94.0	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	90.1	-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 <sub>C</sub>	C	Fast	94.00	63 Hz	93.1	-0.8 ± 1.5
					125 Hz	93.8	-0.2 ± 1.5
					250 Hz	94.0	0.0 ± 1.4
					500 Hz	94.0	0.0 ± 1.4
					1 kHz	94.0	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	88.2	-6.2 (+3.0 ; -6.0)

# Calibration Report

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

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

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

Note :

The values given in this Calibration Report 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.





## RION CO., LTD.

3-20-41 Higashimotomachi Kokubunji Tokyo 185-8533  
Phone:042(359)7888, Facsimile:042(359)7442

# Certificate of Calibration

**Name** : Precision sound level meter  
**Model** : NL-52      S/No. : 00710259  
( NX-42EX installed )  
**Microphone** : UC-59      S/No. : 02695  
**Preamplifier** : NH-25      S/No. : 10253

**Date of Calibration** : September, 20, 2011

We hereby certify that the above product was tested and calibrated according to the prescribed Rion procedures, and that it fulfills specification requirements.

The measuring equipment and reference devices used for testing and calibrating this unit are managed under the Rion traceability system and are traceable according to official Japanese standards and official standards of countries belonging to the International Committee of Weights and Measures.

  
**RION CO., LTD.**

*T. Kano*  
Manager, Quality Control Department

Annex F

## Event/ Action Plans for Noise

*Annex F Event and Action Plan for Noise*

Event	Action			
	Environmental Team (ET)	Independent Environmental Checker (IEC)	Authorised Person (AP)	Contractor
<b>Action Level</b>	<ol style="list-style-type: none"> <li>1. Notify IEC and Contractor;</li> <li>2. Carry out investigation;</li> <li>3. Report the results of investigation to the IEC, AP and Contractor;</li> <li>4. Discuss with the Contractor and formulate remedial measures;</li> <li>5. Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	<ol style="list-style-type: none"> <li>1. Review the analysed results submitted by the ET;</li> <li>2. Review the proposed remedial measures by the Contractor and advise the AP accordingly;</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Require Contractor to proposed remedial measures for the analysed noise problem;</li> <li>4. Ensure remedial measures are properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Submit noise mitigation proposals to IEC;</li> <li>2. Implement noise mitigation proposals.</li> </ol>
<b>Limit Level</b>	<ol style="list-style-type: none"> <li>1. Identify source;</li> <li>2. Inform IEC and AP;</li> <li>3. Repeat measurements to confirm findings;</li> <li>4. Increase monitoring frequency;</li> <li>5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>6. Inform IEC, AP and EPD the causes and actions taken for the exceedances;</li> <li>7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and AP informed of the results;</li> <li>8. If exceedance stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss amongst AP, ET, and Contractor on the potential remedial actions;</li> <li>2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the AP accordingly;</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>4. Ensure remedial measures properly implemented;</li> <li>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.</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Resubmit proposals if problem still not under control;</li> <li>5. Stop the relevant portion of works as determined by the AP until the exceedance is abated.</li> </ol>

Annex G

## Summary of Implementation Status



*Annex G Implementation Schedule for Environmental Protection Measures (24 October to 31 October 2011 and 1 November to 30 November 2011)*

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
<i>Cultural Heritage</i>					
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.	To be advised	During detailed design and construction	√
S3.9.2	S3.3.1	<u>Vibration Monitoring</u> A baseline condition survey and baseline vibration impact will be conducted by a specialist for the approval of AMO and Buildings Department prior to commencement of the construction works to define the vibration control limits and recommend a vibration monitoring proposal for the concerned historic buildings and structures in and outside CPS for AMO's prior approval before commencement of the construction works.	Historic buildings and structures in CPS, the granite walls at Old Bailey Street and the proposed Grade 3 historic building (No. 20 Hollywood Road)	During detailed design and construction	N/A - Construction works have not commenced.
S3.9.2	S3.3.3	<u>Compliance of the Approved Measures and Auditing</u> Staff training by an experience building conservation expert or relevant competent person(s) in the environmental team of the project should be provided to the on-site staffs, contractors, sub-contractors and workers of the project before commencement of works to ensure their full understanding of the approved protection schedule, restoration proposal and work methodologies related to cultural heritage, and their respective responsibilities in the implementation of the environmental protection measures.  Regular site audit for cultural heritage should be carried out in the construction phase by an experience building conservation expert in the environmental team ("the Heritage Checker") to investigate the site practice of the contractors and workers and their compliance of the approved work methodologies with respect of conservation works, mitigations for cultural heritage and any related works. A detailed proposal of the regular audit such as methodology (e.g. performance	Whole site	Prior to and during construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		<p>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.</p> <p>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.</p>			
S3.9.3	S3.3.4	<p><u>Archival Recording</u></p> <p>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.</p>	Whole Site	During detailed design, construction and prior to operation	N/A - Archival recording will be conducted at later stage.
S3.7.3	-	<p><u>General Construction Methods</u></p> <p>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 checked and confirmed by the contractor. Non-percussive piling</p>	Whole site	During construction	N/A - The site survey is currently undertaken by the Contractor.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		<p>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.</p>			
S3.7.1 & 3.7.2	-	<p>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:</p> <ul style="list-style-type: none"> <li>• one set of measured drawings and photographic records showing the as-built condition of historic buildings and structures; and</li> <li>• an updated inventory list of the historic features together with the cross referenced location plans and photo records.</li> </ul> <p>One set of updated CMP shall be submitted to the AMO for approval before the operation stage of the project.</p>	Whole site	During detailed design, construction, post-construction and operation	N/A - No construction has commenced. the CMP will be implemented and updated at later stage.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
<i>Landscape &amp; Visual</i>					
S4.7.27	-	<p><u><i>In-situ Tree Protection - Cordon Zone (CZ)</i></u></p> <p>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.</p>	Whole site	During construction	<>
S4.7.2	-	<p><u><i>In-situ Tree Protection - Advanced &amp; Phased Root Pruning</i></u></p> <p>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 &gt;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.</p>	Whole site	During construction	N/A - No construction work has commenced.
S4.7.2	-	<p><u><i>In-situ Tree Protection - Foliage cleansing system</i></u></p> <p>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</p>	Whole site	During construction	N/A - No construction work has commenced.

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	<p><u>In-situ Tree Protection - Monthly inspection</u></p> <p>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 (<a href="http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf">http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf</a>) 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.</p>	Whole site	During construction	√
S4.7.2	-	<p><u>Light Control</u></p> <p>Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs.</p>	Whole site	During construction and operation	N/A – No construction work has commenced.
S4.7.2	S4	<p><u>Compensatory Tree Planting</u></p> <p>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.</p> <p>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</p>	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
		<p>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.</p> <p>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</p> <p>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::</p> <ul style="list-style-type: none"> <li>- <i>Bauhinia 'Blakeana'</i> a native evergreen species with deep mauve flowers and an exceptionally long flowering period from late autumn to early spring.</li> <li>- <i>Bauhinia purpure</i>, a native evergreen with lighter purple flowers from late autumn to early winter.</li> <li>- <i>Bauhinia variegata</i>, an exotic deciduous species, with pale pinkish flowers in spring to early summer often when the tree has little or no leaves.</li> </ul>			
S4.7.2	S4	<p><u>Vertical Greening</u></p> <p>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</p>	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
		each of the large protruding piers and an offset be made from both the 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	-	<b><i>New Custom Paving</i></b>  New, Porous, 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	<b><i>In-situ Tree Protection - Quarterly inspection</i></b>  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 ( <a href="http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf">http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf</a> ) 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.
<i>Noise</i>					
S5.9	-	The following site practices should be followed during the construction of the Project: <ul style="list-style-type: none"> <li>• Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase;</li> <li>• Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase;</li> <li>• Mobile plant, if any, will be sited as far away from NSRs as</li> </ul>	Whole Site	During construction	N/A - No construction work has commenced.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		<p>possible;</p> <ul style="list-style-type: none"> <li>• 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;</li> <li>• 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</li> <li>• Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities.</li> </ul>			
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	N/A - No construction work has commenced.
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 <sup>2</sup> and have no openings or gaps.	Whole Site	During construction	N/A - No construction work has commenced.
S5.9	-	Use quiet PME as far as practicable to mitigate the construction noise impact.	Whole Site	During construction	N/A - No construction work has commenced.
S5.9	-	Scheduling of construction activities with identified grouping of PMEs.	Whole Site	During construction	N/A - No construction work has commenced.
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	√
<i>Air Quality</i>					
S6.8.1	-	Dust control measures stipulated in the <i>Air Pollution Control (Construction Dust) Regulation</i> will be implemented during the	Whole Site	During construction	N/A - No construction work has commenced.



EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		construction phase to control the potential fugitive dust emissions.			
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	N/A - No construction work has commenced.
S6.8.1	-	Impervious sheet will be provided for skip hoist for material transport.	Whole Site	During construction	N/A - No construction work has commenced.
S6.8.1	-	Vehicle washing facilities will be provided at the designated vehicle exit points.	Whole Site	During construction	N/A - No construction work has commenced.
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	N/A - No construction work has commenced.
S6.8.1	-	Road sections between vehicle-wash areas and vehicular entrances will be paved.	Whole Site	During construction	N/A - No construction work has commenced.
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	N/A - No construction work has commenced.
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	N/A - No construction work has commenced.
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	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
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	N/A - No construction work has commenced.
S6.8.1	-	ULSD will be used for all construction plant on-site.	Whole Site	During construction	N/A - No construction work has commenced.
S6.8.1	-	The engine of the construction equipment or trucks during idling will be switched off.	Whole Site	During construction	N/A - No construction work has commenced.
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 - No construction work has commenced.
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	√
<i>Water Quality</i>					
S7.6	-	Channels, earth bunds or sand bag barriers will be provided on site to direct stormwater to silt removal facilities. The design of silt removal facilities will make reference to the guidelines in <i>Appendix A1 of ProPECC PN 1/94</i> . All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	Whole Site	During construction	N/A - No construction work has commenced.
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 - No construction work has commenced.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
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 - No construction work has commenced.
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	N/A - No construction work has commenced.
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 - No construction work has commenced.
S7.6	-	Precautions will be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2 of <i>ProPECC PN 1/94</i> . Particular attention will be paid to the control of silty surface runoff during storm events.	Whole Site	During construction	N/A - No construction work has commenced.
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 - No construction work has commenced.
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 - No construction work has commenced.
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 - No construction work has commenced.
S7.6	-	Waste streams classifiable as chemical wastes will be properly stored, collected and treated.	Whole Site	During construction	N/A - No construction work has commenced.
S7.6	-	All fuel tanks and chemical storage areas will be provided with locks and be sited on paved areas.	Whole Site	During construction	N/A - No construction work has commenced.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
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	N/A - No construction work has commenced.
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	√
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 - No construction work has commenced.
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 - No construction work has commenced.
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	√
<i>Waste Management</i>					
S8.5	S6.3.1 & Table 6.1	<u>General</u> The Contractor shall apply for and obtain all the necessary waste disposal permits or licences are obtained prior to the commencement of the construction works.	Whole Site	During construction	√
S8.5	-	<u>Management of Waste Disposal</u> The construction contractor will open a billing account with the EPD. Every construction waste or public fill load to be transferred to the Government waste disposal facilities such as public fill reception facilities, sorting facilities, landfills will require a valid "chit" which contains the information of the account holder to facilitate waste transaction recording and billing to the waste producer.	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
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	√
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	<u>Reduction of Construction Waste Generation</u>  C&D material will be segregated on-site into public fill and construction waste and stored in different containers or skips to facilitate reuse of the public fill and proper disposal of the construction waste. Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	Whole Site	During construction	<>
S8.5	S6	<u>Chemical Waste</u>  The contractor will register as a chemical waste producer with the EPD.	Whole Site	During construction and operation	√
S8.5	S6	Containers used for storage of chemical waste shall: <ul style="list-style-type: none"> <li>• Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;</li> <li>• Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and</li> <li>• Display a label in English and Chinese in accordance with instructions prescribed in <i>Schedule 2 of the Regulations</i>.</li> </ul>	Whole Site	During construction and operation	N/A - No construction work has commenced.
S8.5	S6	Storage areas for chemical waste shall: <ul style="list-style-type: none"> <li>• Be clearly labelled and used solely for the storage of chemical waste;</li> <li>• Be enclosed on at least 3 sides;</li> <li>• 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;</li> <li>• Have adequate ventilation;</li> <li>• Be covered to prevent rainfall entering (water collected within the</li> </ul>	Whole Site	During construction and operation	N/A - No construction work has commenced.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		<p>bund must be tested and disposed of as chemical waste, if necessary); and</p> <ul style="list-style-type: none"> <li>• Be arranged so that incompatible materials are appropriately separated.</li> </ul>			
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	N/A - No construction work has commenced.
S8.5	S6 & Table 6.1	<p><u>General Refuse</u></p> <p>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.</p>	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	<p><u>Staff Training</u></p> <p>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.</p>	Whole site	Commence-ment 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 Implementation Schedule for Environmental Protection Measures (1 December to 31 December 2011)**

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
<b>Cultural Heritage</b>					
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.	To be advised	During detailed design and construction	√
S3.9.2	S3.3.1	<u>Vibration Monitoring</u> A baseline condition survey and baseline vibration impact will be conducted by a specialist for the approval of AMO and Buildings Department prior to commencement of the construction works to define the vibration control limits and recommend a vibration monitoring proposal for the concerned historic buildings and structures in and outside CPS for AMO's prior approval before commencement of the construction works.	Historic buildings and structures in CPS, the granite walls at Old Bailey Street and the proposed Grade 3 historic building (No. 20 Hollywood Road)	During detailed design and construction	N/A - No construction has commenced. The vibration monitoring proposal was under preparing during the reporting period.
S3.9.2	S3.3.3	<u>Compliance of the Approved Measures and Auditing</u> Staff training by an experience building conservation expert or relevant competent person(s) in the environmental team of the project should be provided to the on-site staffs, contractors, sub-contractors and workers of the project before commencement of works to ensure their full understanding of the approved protection schedule, restoration proposal and work methodologies related to cultural heritage, and their respective responsibilities in the implementation of the environmental protection measures.  Regular site audit for cultural heritage should be carried out in the construction phase by an experience building conservation expert in the environmental team ("the Heritage Checker") to investigate the site practice of the contractors and workers and their compliance of the approved work methodologies with respect of conservation works, mitigations for cultural heritage and any related works. A detailed proposal of the regular audit such as methodology (e.g. performance	Whole site	Prior to and during construction	√



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

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		<p>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.</p>			
S3.7.1 & 3.7.2	-	<p>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:</p> <ul style="list-style-type: none"> <li>• one set of measured drawings and photographic records showing the as-built condition of historic buildings and structures; and</li> <li>• an updated inventory list of the historic features together with the cross referenced location plans and photo records.</li> </ul> <p>One set of updated CMP shall be submitted to the AMO for approval before the operation stage of the project.</p>	Whole site	During detailed design, construction, post-construction and operation	N/A - No construction has commenced. The CMP will be implemented and updated at later stage.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
<i>Landscape &amp; Visual</i>					
S4.7.27	-	<p><u><i>In-situ Tree Protection - Cordon Zone (CZ)</i></u></p> <p>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.</p>	Whole site	During construction	√
S4.7.2	-	<p><u><i>In-situ Tree Protection - Advanced &amp; Phased Root Pruning</i></u></p> <p>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 &gt;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.</p>	Whole site	During construction	N/A - No construction work has commenced.
S4.7.2	-	<p><u><i>In-situ Tree Protection - Foliage cleansing system</i></u></p> <p>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</p>	Whole site	During construction	N/A - the sprinkler cleaning system is installing during the reporting period.

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	<p><u>In-situ Tree Protection - Monthly inspection</u></p> <p>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 (<a href="http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf">http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf</a>) 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.</p>	Whole site	During construction	√
S4.7.2	-	<p><u>Light Control</u></p> <p>Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs.</p>	Whole site	During construction and operation	N/A – No construction work has commenced.
S4.7.2	S4	<p><u>Compensatory Tree Planting</u></p> <p>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.</p> <p>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</p>	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
		<p>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.</p> <p>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</p> <p>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::</p> <ul style="list-style-type: none"> <li>- <i>Bauhinia 'Blakeana'</i> a native evergreen species with deep mauve flowers and an exceptionally long flowering period from late autumn to early spring.</li> <li>- <i>Bauhinia purpure</i>, a native evergreen with lighter purple flowers from late autumn to early winter.</li> <li>- <i>Bauhinia variegata</i>, an exotic deciduous species, with pale pinkish flowers in spring to early summer often when the tree has little or no leaves.</li> </ul>			
S4.7.2	S4	<p><u>Vertical Greening</u></p> <p>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</p>	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
		each of the large protruding piers and an offset be made from both the 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 existing 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	-	<b><i>New Custom Paving</i></b>  New, Porous, 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	<b><i>In-situ Tree Protection - Quarterly inspection</i></b>  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 ( <a href="http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf">http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf</a> ) 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.
<i>Noise</i>					
S5.9	-	The following site practices should be followed during the construction of the Project: <ul style="list-style-type: none"> <li>• Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase;</li> <li>• Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase;</li> <li>• Mobile plant, if any, will be sited as far away from NSRs as</li> </ul>	Whole Site	During construction	N/A - No construction work has commenced.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		<p>possible;</p> <ul style="list-style-type: none"> <li>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;</li> <li>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</li> <li>Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities.</li> </ul>			
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	N/A - No construction work has commenced.
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 <sup>2</sup> and have no openings or gaps.	Whole Site	During construction	N/A - No construction work has commenced.
S5.9	-	Use quiet PME as far as practicable to mitigate the construction noise impact.	Whole Site	During construction	N/A - No construction work has commenced.
S5.9	-	Scheduling of construction activities with identified grouping of PMEs.	Whole Site	During construction	N/A - No construction work has commenced.
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	√
<i>Air Quality</i>					
S6.8.1	-	Dust control measures stipulated in the <i>Air Pollution Control (Construction Dust) Regulation</i> will be implemented during the	Whole Site	During construction	N/A - No construction work has commenced.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		construction phase to control the potential fugitive dust emissions.			
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	N/A - No construction work has commenced.
S6.8.1	-	Impervious sheet will be provided for skip hoist for material transport.	Whole Site	During construction	N/A - No construction work has commenced.
S6.8.1	-	Vehicle washing facilities will be provided at the designated vehicle exit points.	Whole Site	During construction	N/A - No construction work has commenced.
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	N/A - No construction work has commenced.
S6.8.1	-	Road sections between vehicle-wash areas and vehicular entrances will be paved.	Whole Site	During construction	N/A - No construction work has commenced.
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	N/A - No construction work has commenced.
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	N/A - No construction work has commenced.
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	√



EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
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	N/A - No construction work has commenced.
S6.8.1	-	ULSD will be used for all construction plant on-site.	Whole Site	During construction	N/A - No construction work has commenced.
S6.8.1	-	The engine of the construction equipment or trucks during idling will be switched off.	Whole Site	During construction	N/A - No construction work has commenced.
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 - No construction work has commenced.
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	√
<i>Water Quality</i>					
S7.6	-	Channels, earth bunds or sand bag barriers will be provided on site to direct stormwater to silt removal facilities. The design of silt removal facilities will make reference to the guidelines in <i>Appendix A1 of ProPECC PN 1/94</i> . All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	Whole Site	During construction	<>
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 - No construction work has commenced.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
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 - No construction work has commenced.
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	N/A - No construction work has commenced.
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 - No construction work has commenced.
S7.6	-	Precautions will be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2 of <i>ProPECC PN 1/94</i> . Particular attention will be paid to the control of silty surface runoff during storm events.	Whole Site	During construction	N/A - No construction work has commenced.
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 - No construction work has commenced.
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 - No construction work has commenced.
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 - No construction work has commenced.
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	N/A - No construction work has commenced.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
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	N/A - No construction work has commenced.
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	√
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 - No construction work has commenced.
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 - No construction work has commenced.
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	√
<i>Waste Management</i>					
S8.5	S6.3.1 & Table 6.1	<u>General</u> The Contractor shall apply for and obtain all the necessary waste disposal permits or licences are obtained prior to the commencement of the construction works.	Whole Site	During construction	√
S8.5	-	<u>Management of Waste Disposal</u> The construction contractor will open a billing account with the EPD. Every construction waste or public fill load to be transferred to the Government waste disposal facilities such as public fill reception facilities, sorting facilities, landfills will require a valid "chit" which contains the information of the account holder to facilitate waste transaction recording and billing to the waste producer.	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
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	√
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	<u>Reduction of Construction Waste Generation</u> C&D material will be segregated on-site into public fill and construction waste and stored in different containers or skips to facilitate reuse of the public fill and proper disposal of the construction waste. Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	Whole Site	During construction	√
S8.5	S6	<u>Chemical Waste</u> The contractor will register as a chemical waste producer with the EPD.	Whole Site	During construction and operation	√
S8.5	S6	Containers used for storage of chemical waste shall: <ul style="list-style-type: none"> <li>• Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;</li> <li>• Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and</li> <li>• Display a label in English and Chinese in accordance with instructions prescribed in <i>Schedule 2 of the Regulations</i>.</li> </ul>	Whole Site	During construction and operation	N/A - No construction work has commenced.
S8.5	S6	Storage areas for chemical waste shall: <ul style="list-style-type: none"> <li>• Be clearly labelled and used solely for the storage of chemical waste;</li> <li>• Be enclosed on at least 3 sides;</li> <li>• 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;</li> <li>• Have adequate ventilation;</li> <li>• Be covered to prevent rainfall entering (water collected within the</li> </ul>	Whole Site	During construction and operation	N/A - No construction work has commenced.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		<p>bund must be tested and disposed of as chemical waste, if necessary); and</p> <ul style="list-style-type: none"> <li>• Be arranged so that incompatible materials are appropriately separated.</li> </ul>			
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	N/A - No construction work has commenced.
S8.5	S6 & Table 6.1	<p><u>General Refuse</u></p> <p>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.</p>	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	<p><u>Staff Training</u></p> <p>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.</p>	Whole site	Commence-ment 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 Implementation Schedule for Environmental Protection Measures (1 January to 31 January 2012)**

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
<b>Cultural Heritage</b>					
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.	To be advised	During detailed design and construction	√
S3.9.2	S3.3.1	<u>Vibration Monitoring</u> A baseline condition survey and baseline vibration impact will be conducted by a specialist for the approval of AMO and Buildings Department prior to commencement of the construction works to define the vibration control limits and recommend a vibration monitoring proposal for the concerned historic buildings and structures in and outside CPS for AMO's prior approval before commencement of the construction works.	Historic buildings and structures in CPS, the granite walls at Old Bailey Street and the proposed Grade 3 historic building (No. 20 Hollywood Road)	During detailed design and construction	√
S3.9.2	S3.3.3	<u>Compliance of the Approved Measures and Auditing</u> Staff training by an experience building conservation expert or relevant competent person(s) in the environmental team of the project should be provided to the on-site staffs, contractors, sub-contractors and workers of the project before commencement of works to ensure their full understanding of the approved protection schedule, restoration proposal and work methodologies related to cultural heritage, and their respective responsibilities in the implementation of the environmental protection measures.  Regular site audit for cultural heritage should be carried out in the construction phase by an experience building conservation expert in the environmental team ("the Heritage Checker") to investigate the site practice of the contractors and workers and their compliance of the approved work methodologies with respect of conservation works, mitigations for cultural heritage and any related works. A detailed proposal of the regular audit such as methodology (e.g. performance	Whole site	Prior to and during construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		<p>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.</p> <p>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.</p>			
S3.9.3	S3.3.4	<p><u>Archival Recording</u></p> <p>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.</p>	Whole Site	During detailed design, construction and prior to operation	N/A - Archival recording will be conducted at later stage.
S3.7.3	-	<p><u>General Construction Methods</u></p> <p>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 checked and confirmed by the contractor. Non-percussive piling</p>	Whole site	During construction	√



EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		<p>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.</p>			
S3.7.1 & 3.7.2	-	<p>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:</p> <ul style="list-style-type: none"> <li>• one set of measured drawings and photographic records showing the as-built condition of historic buildings and structures; and</li> <li>• an updated inventory list of the historic features together with the cross referenced location plans and photo records.</li> </ul> <p>One set of updated CMP shall be submitted to the AMO for approval before the operation stage of the project.</p>	Whole site	During detailed design, construction, post-construction and operation	√ - CMP was implemented during the 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
<i>Landscape &amp; Visual</i>					
S4.7.27	-	<p><u><i>In-situ Tree Protection - Cordon Zone (CZ)</i></u></p> <p>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.</p>	Whole site	During construction	√
S4.7.2	-	<p><u><i>In-situ Tree Protection - Advanced &amp; Phased Root Pruning</i></u></p> <p>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 &gt;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.</p>	Whole site	During construction	√
S4.7.2	-	<p><u><i>In-situ Tree Protection - Foliage cleansing system</i></u></p> <p>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</p>	Whole site	During construction	N/A - the sprinkler cleaning system is installing during the reporting period.

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	<p><u>In-situ Tree Protection - Monthly inspection</u></p> <p>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 (<a href="http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf">http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf</a>) 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.</p>	Whole site	During construction	√
S4.7.2	-	<p><u>Light Control</u></p> <p>Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs.</p>	Whole site	During construction and operation	N/A – Not observed.
S4.7.2	S4	<p><u>Compensatory Tree Planting</u></p> <p>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.</p> <p>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</p>	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
		<p>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.</p> <p>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</p> <p>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::</p> <ul style="list-style-type: none"> <li>- <i>Bauhinia 'Blakeana'</i> a native evergreen species with deep mauve flowers and an exceptionally long flowering period from late autumn to early spring.</li> <li>- <i>Bauhinia purpure</i>, a native evergreen with lighter purple flowers from late autumn to early winter.</li> <li>- <i>Bauhinia variegata</i>, an exotic deciduous species, with pale pinkish flowers in spring to early summer often when the tree has little or no leaves.</li> </ul>			
S4.7.2	S4	<p><u>Vertical Greening</u></p> <p>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</p>	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
		each of the large protruding piers and an offset be made from both the 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	-	<b><i>New Custom Paving</i></b>  New, Porous, 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	<b><i>In-situ Tree Protection - Quarterly inspection</i></b>  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 ( <a href="http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf">http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf</a> ) 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.
<i>Noise</i>					
S5.9	-	The following site practices should be followed during the construction of the Project: <ul style="list-style-type: none"> <li>• Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase;</li> <li>• Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase;</li> <li>• Mobile plant, if any, will be sited as far away from NSRs as</li> </ul>	Whole Site	During construction	N/A - Not observed.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		<p>possible;</p> <ul style="list-style-type: none"> <li>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;</li> <li>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</li> <li>Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities.</li> </ul>			
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	N/A - Not observed.
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 <sup>2</sup> and have no openings or gaps.	Whole Site	During construction	N/A - Not observed.
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	√
<i>Air Quality</i>					
S6.8.1	-	Dust control measures stipulated in the <i>Air Pollution Control (Construction Dust) Regulation</i> will be implemented during the	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		construction phase to control the potential fugitive dust emissions.			
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	N/A - Not observed.
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	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
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	√
S6.8.1	-	ULSD will be used for all construction plant on-site.	Whole Site	During construction	N/A - Not observed.
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	√
<i>Water Quality</i>					
S7.6	-	Channels, earth bunds or sand bag barriers will be provided on site to direct stormwater to silt removal facilities. The design of silt removal facilities will make reference to the guidelines in <i>Appendix A1 of ProPECC PN 1/94</i> . All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	Whole Site	During construction	<>
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.



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

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
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	√
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	√
<i>Waste Management</i>					
S8.5	S6.3.1 & Table 6.1	<u>General</u> The Contractor shall apply for and obtain all the necessary waste disposal permits or licences are obtained prior to the commencement of the construction works.	Whole Site	During construction	√
S8.5	-	<u>Management of Waste Disposal</u> The construction contractor will open a billing account with the EPD. Every construction waste or public fill load to be transferred to the Government waste disposal facilities such as public fill reception facilities, sorting facilities, landfills will require a valid “chit” which contains the information of the account holder to facilitate waste transaction recording and billing to the waste producer.	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
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	√
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	<u>Reduction of Construction Waste Generation</u>  C&D material will be segregated on-site into public fill and construction waste and stored in different containers or skips to facilitate reuse of the public fill and proper disposal of the construction waste. Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	Whole Site	During construction	√
S8.5	S6	<u>Chemical Waste</u>  The contractor will register as a chemical waste producer with the EPD.	Whole Site	During construction and operation	√
S8.5	S6	Containers used for storage of chemical waste shall: <ul style="list-style-type: none"> <li>• Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;</li> <li>• Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and</li> <li>• Display a label in English and Chinese in accordance with instructions prescribed in <i>Schedule 2 of the Regulations</i>.</li> </ul>	Whole Site	During construction and operation	√
S8.5	S6	Storage areas for chemical waste shall: <ul style="list-style-type: none"> <li>• Be clearly labelled and used solely for the storage of chemical waste;</li> <li>• Be enclosed on at least 3 sides;</li> <li>• 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;</li> <li>• Have adequate ventilation;</li> <li>• Be covered to prevent rainfall entering (water collected within the</li> </ul>	Whole Site	During construction and operation	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		<p>bund must be tested and disposed of as chemical waste, if necessary); and</p> <ul style="list-style-type: none"> <li>• Be arranged so that incompatible materials are appropriately separated.</li> </ul>			
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	N/A - Not observed.
S8.5	S6 & Table 6.1	<p><u>General Refuse</u></p> <p>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.</p>	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	<p><u>Staff Training</u></p> <p>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.</p>	Whole site	Commence-ment 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 H

## Noise Monitoring Results

## Annex H Noise Monitoring Results

### Daytime Noise Monitoring Results

#### NM6 Chancery Mansion

Date	Start Time	End Time	Weather	Noise level (dB(A)), 30 min			Major Construction Noise Source(s) Observed	Other Noise Source(s) Observed	Remarks	Temp. (°C) <sup>a</sup>	Wind Speed (m/s) <sup>b</sup>	Noise Meter Model / ID	Calibrator Model / ID	Compliance (Y/N)
				Leq	L10	L90								
26-Oct-11	13:12	13:42	Fine	63.3	64.6	62.0	-	Traffic noise	-	21.6 - 26.6	-	RION- NA27 (S/N 00201194)	RION - NC73 (S/N 10997142)	Y
1-Nov-11	15:15	15:45	Sunny	63.5	64.7	62.2	-	Traffic noise	-	22.3 - 28.8	-	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10997142)	Y
7-Nov-11	8:30	9:00	Sunny	62.6	64.2	60.3	-	Traffic noise	-	23.7 - 28.5	-	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
16-Nov-11	9:40	10:10	Sunny	66.0	67.7	63.2	Scaffolding - bamboo	-	-	21.8 - 26.8	-	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
24-Nov-11	9:50	10:20	Sunny	64.6	66.3	63.2	Compressor, breaker (near site)	Traffic noise	-	19.0 - 23.6	-	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
30-Nov-11	11:05	11:35	Sunny	63.7	65.0	62.5	Breaker (near site)	-	-	21.0 - 28.0	-	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
				Min.	62.6									
				Max.	66.0									

#### NM2 Ho Fook Building

Date	Start Time	End Time	Weather	Noise level (dB(A)), 30 min			Major Construction Noise Source(s) Observed	Other Noise Source(s) Observed	Remarks	Temp. (°C) <sup>a</sup>	Wind Speed (m/s) <sup>b</sup>	Noise Meter Model / ID	Calibrator Model / ID	Compliance (Y/N)
				Leq	L10	L90								
26-Oct-11	13:53	14:23	Fine	62.6	64.4	60.7	-	Traffic noise	-	21.6 - 26.6	-	RION- NA27 (S/N 00201194)	RION - NC73 (S/N 10997142)	Y
1-Nov-11	17:15	17:45	Sunny	63.4	64.8	60.7	-	Traffic noise	-	22.3 - 28.8	-	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10997142)	Y
7-Nov-11	9:12	9:42	Sunny	64.1	65.4	61.9	-	Traffic noise	-	23.7 - 28.5	-	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
16-Nov-11	10:20	10:50	Sunny	64.9	66.6	62.0	Scaffolding - bamboo	Hand held breaker (near site)	-	21.8 - 26.8	-	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
24-Nov-11	10:28	10:58	Sunny	65.4	66.8	63.5	Compressor, breaker (Near Site)	Traffic noise	-	19.0 - 23.6	-	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
30-Nov-11	11:28	11:58	Sunny	65.0	67.1	63.0	Breaker (near site)	Traffic noise	-	21.0 - 28.0	-	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
				Min.	62.6									
				Max.	65.4									

**Note:**

a) Temperature data from Hong Kong Observatory - Hong Kong Park (<http://www.hko.gov.hk/wxinfo/dailywx/dailywx.shtml>)

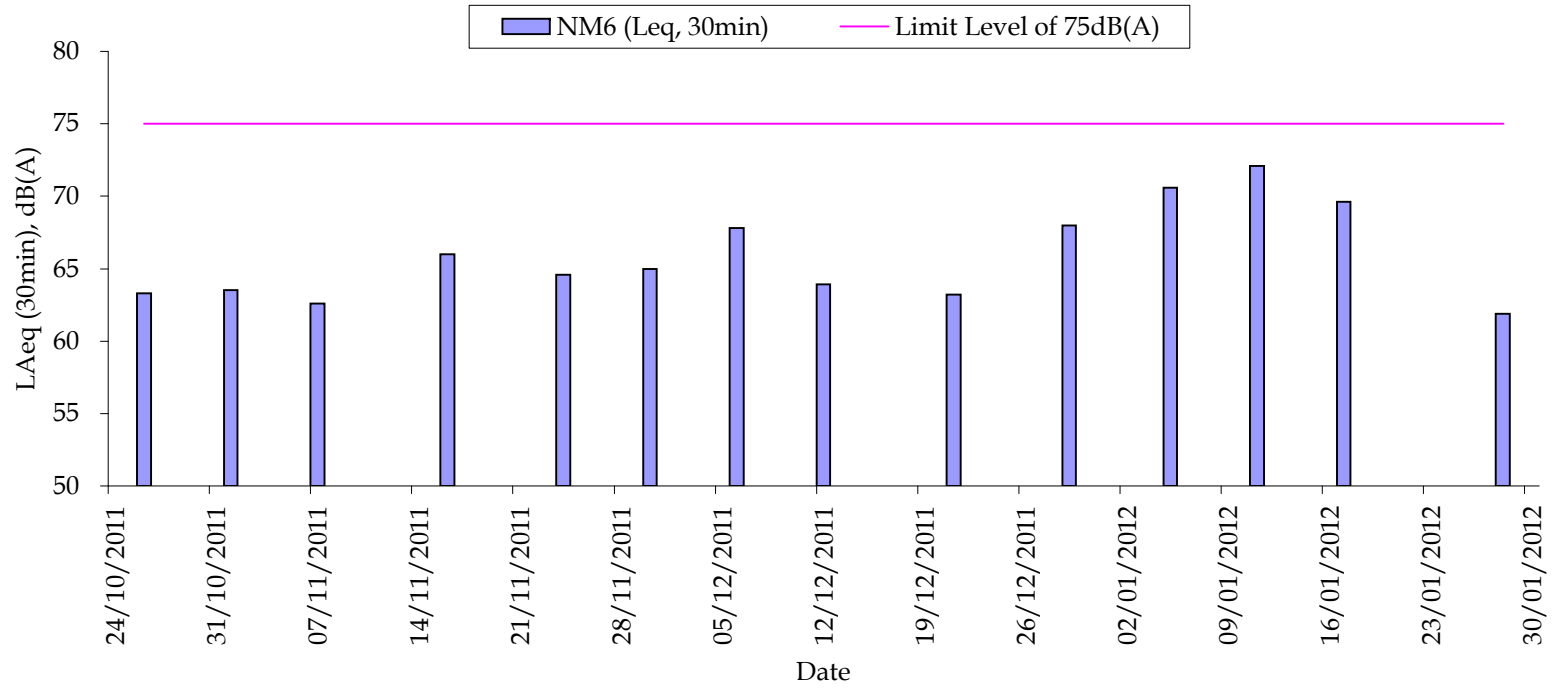
b) No data available







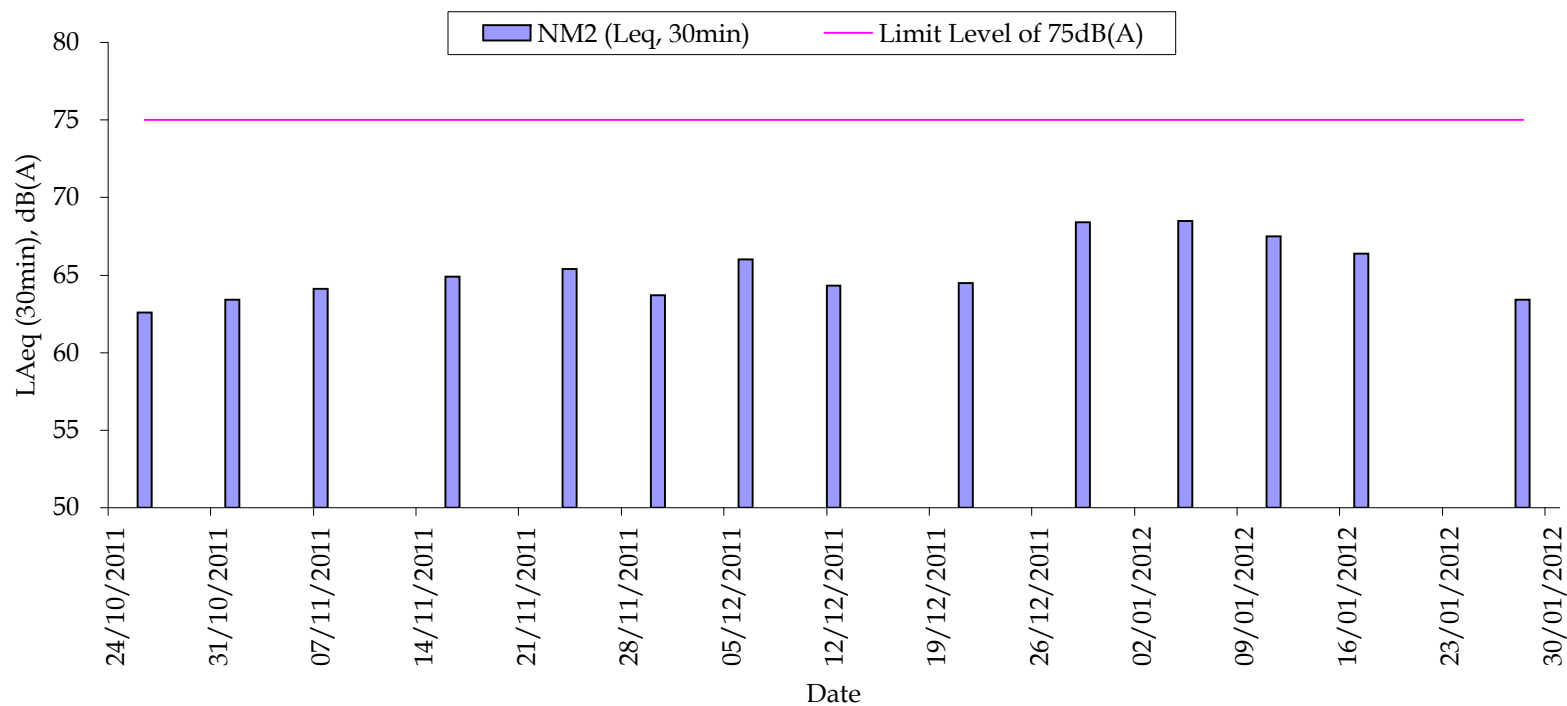
Normal Weekdays Noise Monitoring Results at NM6 - Chancery Mansion (Leq, 30min)



Remark:

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

Normal Weekdays Noise Monitoring Results at NM2 - Ho Fook Building (Leq, 30min)

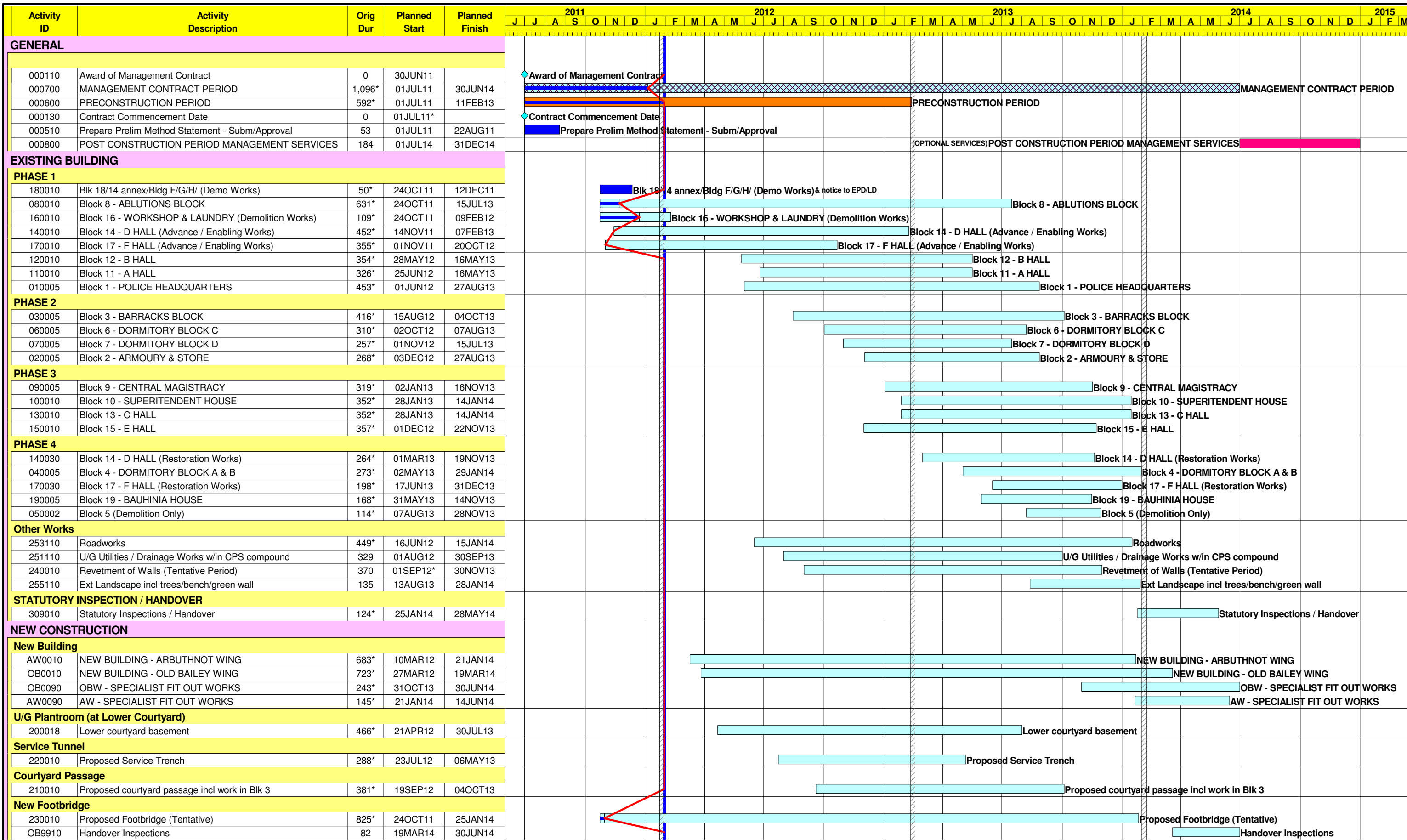


Remark:

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

Annex I

## Construction Programme of the Project



Start Date	07JUL10	Target Bar
Finish Date	31JAN15	Progress Bar
Data Date	31JAN12	
Run Date	06FEB12 10:48	

2A01	
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**CENTRAL POLICE STATION  
 CONSERVATION AND REVITALIZATION  
 (MANAGEMENT CONTRACT)  
 MARKED-UP CONSTRUCTION PROGRAMME**

Sheet 1 of 1



GCL / P / J3416 / SUM/CP01 (rev 2)			
Date	Revision	Checked	Approved
05SEP11	EPD submission		
31JAN12	Progress markup as of 31Jan12		

Annex J

## Waste Flow Table

## Annex J - Waste Flow Table

Month/ Year	Quantity						
	C&D Materials (inert) (tonnes) <sup>(a)</sup>	C&D Materials (non-inert) (tonnes) <sup>(b)</sup>	Chemical Waste		Recycled materials		
			Liquid (L)	Solid (kg)	Paper/cardboard (kg)	Plastics (kg)	Metals (kg)
Oct - Nov/ 2011	0	33.5	0	0	38	6	36423 <sup>(c)</sup>
Dec/ 2011	0	18.3	0	0	112	0	24000 <sup>(c)</sup>
Jan /2012	338.3	16.9	0	2400 <sup>(d)</sup>	0	0	3820
<b>Total</b>	<b>338.3</b>	<b>68.7</b>	<b>0</b>	<b>2400</b>	<b>150</b>	<b>6</b>	<b>64,243</b>

**Notes:**

- (a) Inert C&D materials (public fill) include bricks, concrete, building debris, rubble and excavated soil.
- (b) Non-inert C&D materials include other wastes such as general refuse which were disposed of at SENT Landfill.
- (c) The waste flow data for Oct - Nov 2011 and Dec 2011 was updated in January 2012 based on the updated data from the Contractor.
- (d) Asbestos removed from asbestos abatement work in January 2012.

Annex K

Environmental Complaint,  
Environmental Summons  
and Prosecution Log



*Annex K Cumulative Complaint and Summons/Prosecutions Log*

<b>Reporting Month</b>	<b>Number of Complaints in Reporting Month</b>	<b>Number of Summons/Prosecutions in Reporting Month</b>
November 2011	0	0
December 2011	0	0
January 2012	0	0
Overall Total	0	0

Annex L

# Vibration Monitoring Plan and Records of Vibration Monitoring

Demolition Works  
Central Police Station Compound at No. 10, Hollywood Road  
Record of Vibration Monitoring

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**Record of  
Vibration Monitoring for  
Demolition Works at  
Central Police Station Compound at  
No. 10, Hollywood Road  
(7 January 2012 ~ 17 January 2012)**

**Demolition Works  
Central Police Station Compound at No. 10, Hollywood Road  
Record of Vibration Monitoring**

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Stage: Initial Stage (Baseline)

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 Dec 2011	11:05	VM1	0.51	5	No demolition activity
23 Dec 2011	14:18	VM4	0.25	5	
23 Dec 2011	14:27	VM5	0.63	5	
23 Dec 2011	13:30	VM6	0.13	5	
23 Dec 2011	14:40	VM7	0.13	5	
23 Dec 2011	14:06	VM8	0.13	5	
23 Dec 2011	13:21	VM9	0.13	5	
23 Dec 2011	13:41	VM10	0.13	5	

**Demolition Works  
Central Police Station Compound at No. 10, Hollywood Road  
Record of Vibration Monitoring**

Stage: Stage 1

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
7 Jan 2012	14:19	VM1	0.63	5	Demolition of E, F, G, H, N, R, 18, 8a,
7 Jan 2012	14:28	VM4	1.27	5	
7 Jan 2012	14:39	VM5	0.51	5	
7 Jan 2012	13:44	VM6	1.02	5	
7 Jan 2012	14:47	VM7	0.25	5	
7 Jan 2012	14:08	VM8	1.27	5	
7 Jan 2012	13:36	VM9	0.89	5	
7 Jan 2012	13:52	VM10	0.38	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
9 Jan 2012	11:20	VM1	0.51	5	Demolition of E, F, G, H, N, R, 18, 8a,
9 Jan 2012	11:29	VM4	0.38	5	
9 Jan 2012	11:37	VM5	0.25	5	
9 Jan 2012	10:41	VM6	0.25	5	
9 Jan 2012	11:46	VM7	0.25	5	
9 Jan 2012	11:11	VM8	0.51	5	
9 Jan 2012	10:49	VM9	0.51	5	
9 Jan 2012	10:57	VM10	1.27	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
10 Jan 2012	10:38	VM1	0.38	5	Demolition of E, F, G, H, N, R, 18, 8a,
10 Jan 2012	10:48	VM4	0.63	5	
10 Jan 2012	11:02	VM5	0.51	5	
10 Jan 2012	10:07	VM6	1.78	5	
10 Jan 2012	11:02	VM7	0.25	5	
10 Jan 2012	10:28	VM8	0.76	5	
10 Jan 2012	09:57	VM9	1.52	5	
10 Jan 2012	10:17	VM10	0.63	5	

**Demolition Works  
Central Police Station Compound at No. 10, Hollywood Road  
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
11 Jan 2012	10:49	VM1	0.38	5	Demolition of E, F, G, H, N, R, 18, 8a,
11 Jan 2012	10:59	VM4	1.27	5	
11 Jan 2012	11:06	VM5	0.25	5	
11 Jan 2012	10:26	VM6	1.65	5	
11 Jan 2012	11:14	VM7	0.25	5	
11 Jan 2012	10:35	VM8	1.14	5	
11 Jan 2012	10:17	VM9	0.38	5	
11 Jan 2012	10:10	VM10	1.14	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
12 Jan 2012	11:16	VM1	0.51	5	Demolition of E, F, G, H, N, R, 18, 8a,
12 Jan 2012	11:25	VM4	0.76	5	
12 Jan 2012	11:33	VM5	0.13	5	
12 Jan 2012	10:48	VM6	1.27	5	
12 Jan 2012	11:41	VM7	0.89	5	
12 Jan 2012	11:05	VM8	0.25	5	
12 Jan 2012	10:40	VM9	0.76	5	
12 Jan 2012	10:56	VM10	0.25	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
13 Jan 2012	10:58	VM1	0.51	5	Demolition of E, F, G, H, N, R, 18, 8a,
13 Jan 2012	11:08	VM4	0.78	5	
13 Jan 2012	11:19	VM5	0.51	5	
13 Jan 2012	10:29	VM6	0.13	5	
13 Jan 2012	11:27	VM7	0.63	5	
13 Jan 2012	10:49	VM8	0.51	5	
13 Jan 2012	10:40	VM9	0.25	5	
13 Jan 2012	10:23	VM10	0.25	5	

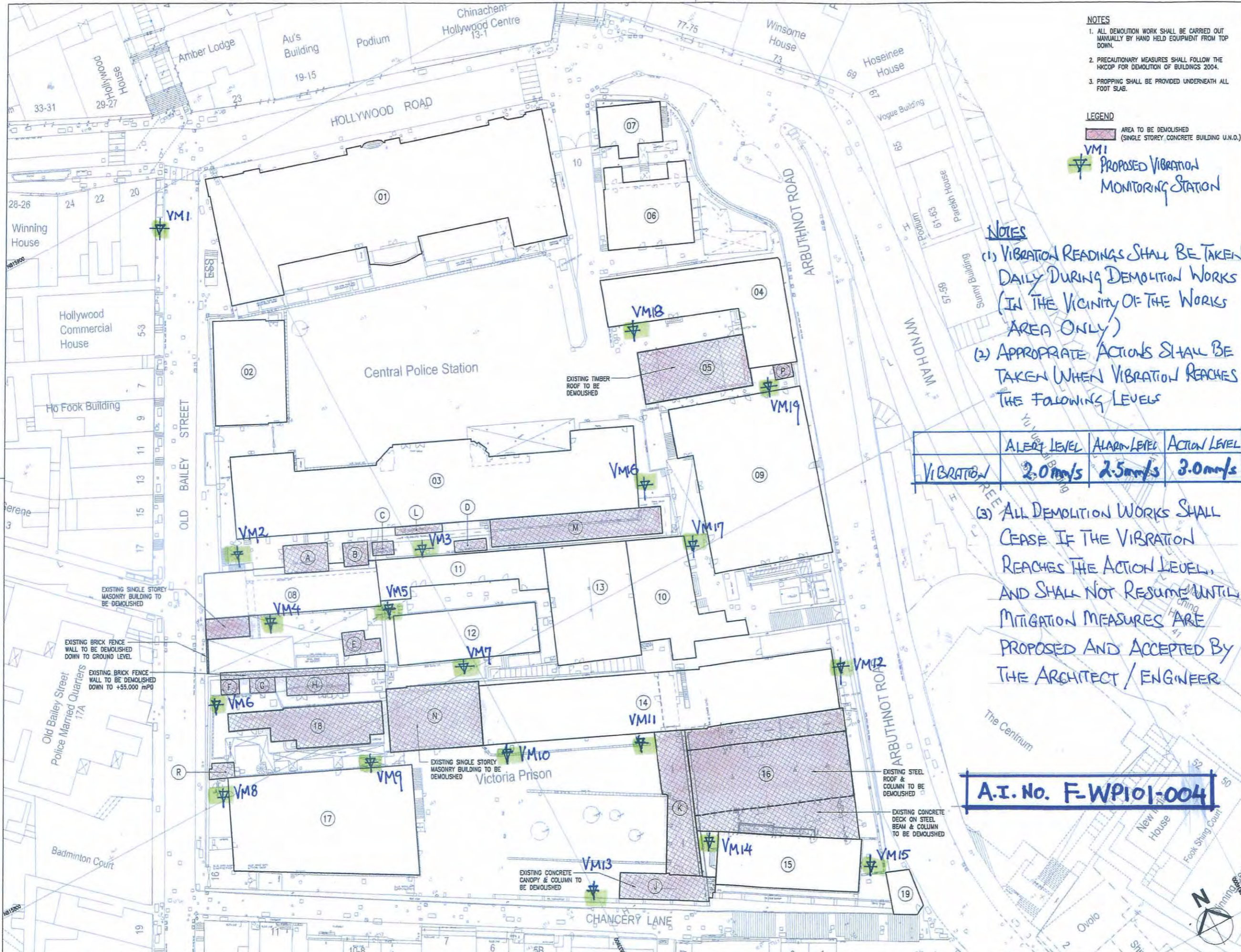
**Demolition Works  
Central Police Station Compound at No. 10, Hollywood Road  
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
14 Jan 2012	10:58	VM1	0.51	5	Demolition of E, F, G, H, N, R, 18, 8a,
14 Jan 2012	11:08	VM4	0.78	5	
14 Jan 2012	11:19	VM5	0.51	5	
14 Jan 2012	10:29	VM6	0.13	5	
14 Jan 2012	11:27	VM7	0.63	5	
14 Jan 2012	10:49	VM8	0.51	5	
14 Jan 2012	10:40	VM9	0.25	5	
14 Jan 2012	10:23	VM10	0.25	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
16 Jan 2012	11:03	VM1	0.51	5	Demolition of E, F, G, H, N, R, 18, 8a,
16 Jan 2012	11:13	VM4	0.68	5	
16 Jan 2012	11:24	VM5	0.45	5	
16 Jan 2012	10:34	VM6	0.15	5	
16 Jan 2012	11:32	VM7	0.55	5	
16 Jan 2012	10:54	VM8	0.45	5	
16 Jan 2012	10:45	VM9	0.25	5	
16 Jan 2012	10:28	VM10	0.25	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
17 Jan 2012	10:42	VM1	0.51	5	Demolition of E, F, G, H, N, R, 18, 8a,
17 Jan 2012	10:53	VM4	0.51	5	
17 Jan 2012	10:59	VM5	0.13	5	
17 Jan 2012	10:25	VM6	0.63	5	
17 Jan 2012	11:09	VM7	0.38	5	
17 Jan 2012	10:33	VM8	0.25	5	
17 Jan 2012	10:18	VM9	0.38	5	
17 Jan 2012	11:16	VM10	0.13	5	





- NOTES**
1. ALL DEMOLITION WORK SHALL BE CARRIED OUT MANUALLY BY HAND HELD EQUIPMENT FROM TOP DOWN.
  2. PRECAUTIONARY MEASURES SHALL FOLLOW THE HKCOP FOR DEMOLITION OF BUILDINGS 2004.
  3. PROPPING SHALL BE PROVIDED UNDERNEATH ALL FOOT SLAB.

**LEGEND**

AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.)

VMI PROPOSED VIBRATION MONITORING STATION

- NOTES**
- (1) VIBRATION READINGS SHALL BE TAKEN DAILY DURING DEMOLITION WORKS (IN THE VICINITY OF THE WORKS AREA ONLY)
  - (2) APPROPRIATE ACTIONS SHALL BE TAKEN WHEN VIBRATION REACHES THE FOLLOWING LEVELS

VIBRATION	ALERT LEVEL	ALARM LEVEL	ACTION LEVEL
	2.0mm/s	2.5mm/s	3.0mm/s

- (3) ALL DEMOLITION WORKS SHALL CEASE IF THE VIBRATION REACHES THE ACTION LEVEL, AND SHALL NOT RESUME UNTIL MITIGATION MEASURES ARE PROPOSED AND ACCEPTED BY THE ARCHITECT / ENGINEER

**A.I. No. F-WP101-004**

B.D. Ref. No. 建築署樓宇編號  
22-1/3096/10(4)

F.S.D. Ref. No. 消防處樓宇編號

Revision/Submission 修改/提交

No. 編號	Description 說明	Date 日期	Approved 審批
01	TENDER	08/11	T.H.
02	BD SUBMISSION	08/11	T.H.



**BD SUBMISSION**  
Drawing Status 製圖狀況

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Project 項目  
CENTRAL POLICE STATION  
CONSERVATION AND REVITALISATION

Drawing Title 圖名  
DEMOLITION SITE PLAN  
(OVERALL)  
VIBRATION MONITORING

Scale 比例  
1:300@A1

Drawn 繪圖  
P.C.

Checked 校對  
T.H.

Drawing No. 圖號  
DE-OAP209674-L-100 02

Revision 修改版

11 NOV 2011

Cad File : DC-OAP209674-L-100.dwg



Annex M

## A Summary of Current Condition of Character Defining Elements

## Schedule of Character Defining Elements

### Central Police Station

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. Should new CDEs be discovered during the construction period, this Schedule will be updated.

For each element, the level of significance is stated. 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.

## Schedule of Character Defining Elements




### Central Police Station

#### 01 Police Headquarters

Element no.	Description	Photo ref	Significance
01.001	Flat plywood ceiling lining with plain rectangular cover battens		Adverse
01.002	Plaster coving at abutments of walls and ceilings		Low
01.003	Lay-in grid suspended ceiling		Adverse




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref	Significance
01.004	Timber thresholds at external doors and internal doors between main corridor and individual rooms		Low
01.005	Plaster box cornice		Moderate
01.006	Panelled doors		Moderate




**Schedule of Character Defining Elements**

Central Police Station

Element no.	Description	Photo ref	Significance
01.007	External shutters		High
01.008	External terraces at 1/F		High
01.009	Plaster ceilings on GF and LG1		Moderate




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref	Significance
01.010	Timber door frames and architraves		Moderate
01.011	Concrete floor		Low
01.012	Rainwater goods		Adverse

## Schedule of Character Defining Elements




### Central Police Station

Element no.	Description	Photo ref	Significance
01.013	Exterior decorations		Adverse
01.014	Existing door openings		Moderate
01.015	Existing walls		Moderate



**Schedule of Character Defining Elements**




Central Police Station

Element no.	Description	Photo ref	Significance
01.016	Altered doors and windows		Adverse
01.017	Mezzanine floor in room 01/LG1/13		Adverse
01.018	Cast iron grilles above Service Corridor 01/LG1/35		High






## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref	Significance
01.019	Perforated concrete deck above lightwell		Adverse
01.020	External airconditioning units and other external services		Adverse
01.021	Stair balustrades		High



## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref	Significance
01.022	Main corridors		High
01.023	Painted signs		High
01.024	Fixed signs		Low-High




**Schedule of Character Defining Elements**

Central Police Station

Element no.	Description	Photo ref	Significance
01.025	Pitched roofs		High
01.026	Enclosure at First Floor landing of main stair		Adverse


## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref	Significance
01.027	Steel railing enclosure at FF level		Low
01.028	Tongued and grooved timber boarded ceilings in East and West wings		Moderate
01.029	Modern partitions		Adverse

## Schedule of Character Defining Elements




### Central Police Station

Element no.	Description	Photo ref	Significance
01.030	Tiled dado	 A photograph showing the interior of a hallway. The lower portion of the wall is covered in small, square, light-colored tiles, forming a 'dado'. A blue door with a glass panel is visible on the right. The ceiling features a decorative archway.	High
01.031	Reinforced concrete canopy and sash windows	 A photograph of the exterior of a building. It features a prominent reinforced concrete canopy over the entrance, supported by columns. The building has red brick walls and white horizontal bands. Sash windows are visible on the upper floor.	Moderate

## Schedule of Character Defining Elements




### Central Police Station

#### 02 Armoury

Element no.	Description	Photo ref.	Significance
02.001	Lay-in grid suspended ceiling		Adverse
02.002	Modern internal doors		Adverse
02.003	Modern partitions		Adverse

## Schedule of Character Defining Elements




### Central Police Station

Element no.	Description	Photo ref.	Significance
02.004	External airconditioning units and other external services		Adverse
02.005	Brickwork walls enclosing rooms at GF and FF East side		Low
02.006	Concrete floors		Low



**Schedule of Character Defining Elements**



Central Police Station

Element no.	Description	Photo ref.	Significance
02.007	Rainwater goods		Adverse
02.008	Altered doors and windows		Adverse
02.009	Concrete stairs		Adverse



## Schedule of Character Defining Elements




### Central Police Station

Element no.	Description	Photo ref.	Significance
02.010	Pitched roofs		High
02.011	Roof structure and tiled soffit		High

## Schedule of Character Defining Elements




### Central Police Station

#### 03 Barracks Block

Element no.	Description	Photo ref.	Significance
03.001	Lay-in grid suspended ceiling		Adverse
3.002	Panelled doors		Moderate
03.003	External shutters		High




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
03.004	Timber thresholds at external doors and internal doors between main corridor and individual rooms		Low
03.005	Timber spandrel panels below windows		Low
03.006	Timber floors		High




**Schedule of Character Defining Elements**

Central Police Station

Element no.	Description	Photo ref.	Significance
03.007	Rainwater goods		Adverse
03.008	Exterior decorations		Adverse
03.009	Block existing door openings		Low

## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
03.010	Form new door openings		Low
03.011	Altered doors and windows		Adverse
03.012	External airconditioning units and other external services		Adverse

## Schedule of Character Defining Elements





### Central Police Station

Element no.	Description	Photo ref.	Significance
03.013	Stair balustrades		High
03.014	Painted signs		High
03.015	Fixed signs		Low-High
03.016	Pitched roofs		High






## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
03.017	Lean-to structure adjacent North wall		Moderate
03.018	Metal-frames windows at GF North elevation		Adverse
03.019	Internal walls at Ground Floor level		Moderate
03.020	Assembly rooms at centre of building (all floors)		Moderate

## Schedule of Character Defining Elements




### Central Police Station

Element no.	Description	Photo ref.	Significance
03.021	Exposed soffits of timber floors		Moderate
03.022	Existing window frames/openings		High
03.023	Single storey outbuildings on south side		Adverse



## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
03.024	Bridge at east end		Moderate
03.025	Chimneypiece on Ground Floor		Low
03.026	Window in south wall; original dormitory space		Moderate

## Schedule of Character Defining Elements




### Central Police Station

Element no.	Description	Photo ref.	Significance
03.027	Clay-tiled floor in store room adjacent stairs		Low

## Schedule of Character Defining Elements

### Central Police Station

#### 04 Dormitory Block A & B

Element no.	Description	Photo ref.	Significance
04.001	Lay-in grid suspended ceiling		Adverse
04.002	Timber thresholds at external doors and internal doors between main corridor and individual rooms		Low
04.003	Plaster box cornice		Moderate




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
04.004	Rainwater goods	 A photograph showing the corner of a light-colored building. Several vertical rainwater pipes are visible on the exterior wall. A balcony with a metal railing is on the upper floor. The building has arched windows and a stone base.	Adverse
04.005	Exterior decorations	 A photograph of a three-story building facade. The building is light-colored with blue awnings over the windows and blue-painted balconies. A modern glass skyscraper is visible in the background.	Adverse
04.006	Block existing door openings	 A photograph of an interior room with white walls and a blue door. The door is slightly ajar, and the room appears to be a simple, possibly utility or storage area.	Moderate




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
04.007	Form new door openings		Moderate
04.008	Altered doors and windows		Adverse
04.009	Window frames in arcades of North and East elevations		Adverse




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
04.010	External airconditioning units and other external services	 A photograph showing several large, silver-colored external air conditioning units and associated pipes mounted on a light-colored stone wall. The units are arranged vertically, and the pipes run along the wall. A yellow safety barrier is visible in the foreground.	Adverse
04.011	Stair balustrades	 A photograph of an interior staircase. The stairs are dark-colored. A wooden handrail is mounted on top of a blue-painted metal balustrade. The wall in the background is light-colored and has an arched opening.	High
04.012	Stair from First to Second Floor	 A photograph of an interior staircase, similar to the one in the previous row. It shows a wooden handrail and a blue-painted metal balustrade. The stairs are dark-colored. The wall is light-colored.	High

## Schedule of Character Defining Elements




### Central Police Station

Element no.	Description	Photo ref.	Significance
04.013	External verandahs		High
04.014	Painted signs		High
04.015	Fixed signs		Low-High



**Schedule of Character Defining Elements**




Central Police Station

Element no.	Description	Photo ref.	Significance
04.016	Pitched roofs		High
04.017	Toilets at ends of verandahs		Adverse
04.018	Partitions at GF Dormitory A		High





## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
04.019	Switchgear in old porch 04/G/13		Adverse
04.020	Flat plywood ceiling lining with plain rectangular cover battens		Adverse
04.021	Steps up to doorway on FF verandah		Moderate



## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
04.022	Timber boarded floors with moulded skirtings		High
04.023	Cantilever balconies		High
04.024	Clay tile floor		Low

## Schedule of Character Defining Elements




### Central Police Station

Element no.	Description	Photo ref.	Significance
04.025	Matched-boarded ceiling with perforated border		Moderate
04.026	Ceiling rose		Low

## Schedule of Character Defining Elements




### Central Police Station

#### 06 Dormitory C

Element no.	Description	Photo ref.	Significance
06.001	Granite thresholds at external doors		Low
06.002	Pitched roof		High
06.003	Rainwater goods		Adverse





## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
06.004	Exterior decorations		Adverse
06.005	Altered doors and windows		Adverse
06.006	External airconditioning units and other external services		Adverse
06.007	Painted signs		High

## Schedule of Character Defining Elements




### Central Police Station

Element no.	Description	Photo ref.	Significance
06.008	Fixed signs		Low-High
06.009	Cantilever balconies		High
06.010	Iron balustrades		High
06.011	Perforated margin at perimeter of ceiling		Low



**Schedule of Character Defining Elements**

Central Police Station

Element no.	Description	Photo ref.	Significance
06.012	Block existing door openings		Moderate
06.013	Form new door openings		Moderate
06.014	Stair balustrades		High

## Schedule of Character Defining Elements

### Central Police Station




Element no.	Description	Photo ref.	Significance
06.015	Timber floors		High
06.016	Vinyl tile floor		Adverse
06.017	Batten and panel ceiling lining		Low
06.018	Exposed roof covering		Moderate



## Schedule of Character Defining Elements




### Central Police Station

#### 07 Dormitory D

Element no.	Description	Photo ref.	Significance
07.001	Pitched roofs		High
07.002	Rainwater goods		Adverse
07.003	Exterior decorations		Adverse





**Schedule of Character Defining Elements**

Central Police Station

Element no.	Description	Photo ref.	Significance
07.004	Altered doors and windows		Adverse
07.005	External airconditioning units and other external services		Adverse
07.006	Clothes drying racks		Adverse




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
07.008	Lay-in grid suspended ceiling		Adverse
07.009	Corbelled brickwork at perimeter of room		Low
07.010	Plywood floor		Adverse
07.011	Timber thresholds at external doors and internal doors between main corridor and individual rooms		Low

## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
07.012	Form new door openings		Moderate
07.013	Stair balustrades		High
07.014	Fixed signs		Low-High

## Schedule of Character Defining Elements

### Central Police Station




Element no.	Description	Photo ref.	Significance
07.015	Exposed roof tiling		Moderate
07.016	Concrete floor		Adverse



## Schedule of Character Defining Elements


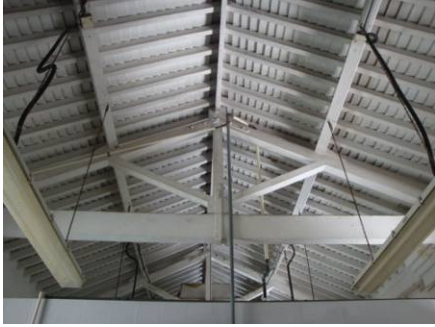

### Central Police Station

#### 08 Ablutions Block

Element no.	Description	Photo ref.	Significance
08.001	Panelled doors		Low
08.002	Rainwater goods		Adverse
08.003	Exterior decorations		Adverse




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
08.004	Block existing door openings		Moderate
08.005	Timber roof structure		High
08.006	External stair at west end		Moderate

## Schedule of Character Defining Elements




### Central Police Station

Element no.	Description	Photo ref.	Significance
08.007	External airconditioning units and other external services		Adverse
08.008	Painted signs		High
08.009	Wire mesh screens		Adverse






## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
08.010	Internal walls and concrete floors		Low
08.011	Cantilever balconies on north side		Moderate
08.012	Bridge access to Barrack Block		Moderate

## Schedule of Character Defining Elements




### Central Police Station

Element no.	Description	Photo ref.	Significance
08.013	Balcony balustrades		Low
08.014	Single-storey outbuilding with pitched roof over		Low
08.015	Corrugated steel sheet on balcony balustrades		Adverse

## Schedule of Character Defining Elements

### Central Police Station

#### 09 Magistracy

Element no.	Description	Photo ref.	Significance
09.001	Lay-in grid suspended ceiling		Adverse
09.002	Modern partitions		Adverse
09.003	Internal walls		Moderate

## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
09.004	Plaster box cornice		Moderate
09.005	Panelled doors		Moderate
09.006	Block existing door openings		Moderate
09.007	Form new door openings		Moderate

## Schedule of Character Defining Elements





### Central Police Station

Element no.	Description	Photo ref.	Significance
09.008	Stair balustrades		High
09.009	Fixed signs		Low-High
09.010	External airconditioning units and other external services		Adverse
09.011	Pitched roofs		High






## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
09.012	Rainwater goods		Moderate
09.013	Metal walkways across lightwell		Adverse
09.014	Altered doors and windows		Adverse
09.015	Sloping canopy over external stair on west side		Adverse

## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
09.016	Single storey secure shelter at North West corner		Low
09.017	Iron railing adjacent south side of item 09.016 above		Moderate
09.018	Public toilets in 09/LG1/17, 24		Adverse

## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
09.019	Cell doors		High
09.020	Meeting room at G/02-05		Moderate
09.021	Lobbies within entrance hall G/12		Adverse



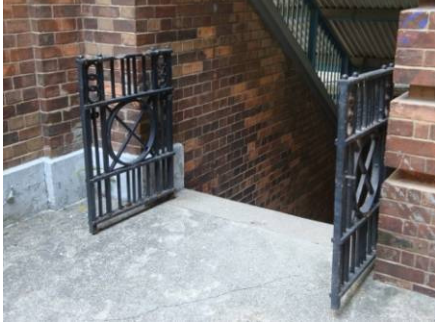

## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
09.022	Public galleries on FF		Adverse
09.023	Chimney piece		Moderate
09.024	Lanterns above entrance hall		Adverse
09.025	Boarded ceilings on Second Floor		High

## Schedule of Character Defining Elements




### Central Police Station

Element no.	Description	Photo ref.	Significance
09.026	Iron gates at top of external stair	 A photograph showing two black wrought-iron gates with circular decorative patterns, positioned at the top of an external staircase. The gates are set against a brick wall and a concrete landing.	Moderate
09.027	Iron balustrade adjacent terrace at First Floor east side	 A photograph of a long, black wrought-iron balustrade with a repeating circular pattern. It runs along a terrace with a brick floor and a decorative Greek key border. The view from the terrace shows a city street with buildings and trees.	High

## Schedule of Character Defining Elements




### Central Police Station

#### 10 Assistant Superintendent's Office

Element no.	Description	Photo ref.	Significance
10.001	Lay-in grid suspended ceiling		Adverse
10.002	Plaster box cornice		Moderate
10.003	Panelled doors and linings		Moderate




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
10.004	Timber boarded floor with moulded skirtings		High
10.005	Exterior decorations		Adverse
10.006	Block existing door openings		Moderate
10.007	Form new door openings		Moderate

## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
10.008	Altered doors and windows		Adverse
10.009	External airconditioning units and other external services		Adverse
10.010	Stair balustrades		High

## Schedule of Character Defining Elements





### Central Police Station

Element no.	Description	Photo ref.	Significance
10.011	Fixed signs		Low-High
10.012	Pitched roofs		High
10.013	Internal walls		Moderate
10.014	Partitions on SF		Moderate






## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
10.015	Blocked windows on south elevation of south-east wing		Adverse
10.016	Open-joisted ceiling on Ground Floor of south-east wing		Moderate
10.017	Moulded timber picture rail		Low
10.018	Timber roof structure above south-east wing		Moderate

**Schedule of Character Defining Elements**




Central Police Station

Element no.	Description	Photo ref.	Significance
10.019	Timber stair		Moderate
10.020	Clay/terrazzo tile floor on Ground Floor and steps		Adverse
10.024	Granite wall on North elevation		High





## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
10.025	Single storey outbuilding at South East corner		Moderate
10.026	Blocked archway on East elevation		Adverse
10.027	Chimney on east elevation		Low

## Schedule of Character Defining Elements




### Central Police Station

Element no.	Description	Photo ref.	Significance
10.028	Cantilever balconies		High
10.029	Steps on east elevation		Moderate

## Schedule of Character Defining Elements




### Central Police Station

#### 11 A Hall

Element no.	Description	Photo ref.	Significance
11.001	Form new door openings		Low
11.002	External airconditioning units and other external services		Adverse
11.003	Painted signs		High




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
11.004	Fixed signs		Low-High
11.005	Concrete stairs		Low
11.006	Flat roof		Low

**Schedule of Character Defining Elements**




Central Police Station

Element no.	Description	Photo ref.	Significance
11.007	Security screen at roof level		Low
11.008	Rainwater goods		Adverse
11.009	Rainwater goods		Low



## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
11.010	Timber doors		Low
11.011	Security screen and door at First Floor		Low
11.012	Door thresholds and plinth		Low

## Schedule of Character Defining Elements




### Central Police Station

Element no.	Description	Photo ref.	Significance
11.013	Metal louvres on window openings	 A photograph showing a section of a brick building facade. The brickwork is reddish-brown. There are several windows, each covered with a metal louver. The louvers are light-colored and have a horizontal slat design. The building appears to be an older structure, possibly a police station as mentioned in the header.	Adverse

## Schedule of Character Defining Elements

### Central Police Station




#### 12 B Hall

Element no.	Description	Photo ref.	Significance
12.001	Flat roof		Moderate
12.002	Cells at GF level		High
12.003	External airconditioning units and other external services		Adverse




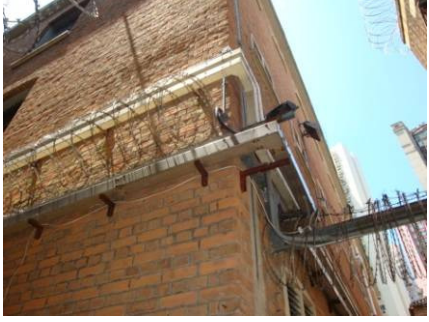

**Schedule of Character Defining Elements**

**Central Police Station**

Element no.	Description	Photo ref.	Significance
12.004	Painted signs		High
12.005	Fixed signs		Low-High
12.006	Rainwater goods		Adverse

## Schedule of Character Defining Elements




### Central Police Station

Element no.	Description	Photo ref.	Significance
12.007	Corbelled brickwork at high level in cells		Low
12.008	Barbed wire		Moderate
12.009	External walls		Moderate

## Schedule of Character Defining Elements




### Central Police Station

#### 13 C Hall

Element no.	Description	Photo ref.	Significance
13.001	External airconditioning units and other external services		Adverse
13.002	Door to Ladder Store		Low
13.003	Security bars at window openings		Low




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
13.004	Flat roof		Low
13.005	Eaves detail		Low
13.006	Cantilever reinforced concrete canopy		Low




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
13.007	Internal partition walls		Low
13.008	Fixed signs		Low-High
13.009	Metal window frames		Moderate

## Schedule of Character Defining Elements




### Central Police Station

Element no.	Description	Photo ref.	Significance
13.010	Internal security screens		Moderate
13.011	Coving at abutments between RC beams and walls		Low
13.012	Communal cells at Ground Floor		Moderate




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
13.013	Rooflight and security bars over communal cells		Moderate
13.014	Granite threshold at external door openings		Low
13.015	Timber boarded doors with fanlight over		Low

## Schedule of Character Defining Elements

### Central Police Station

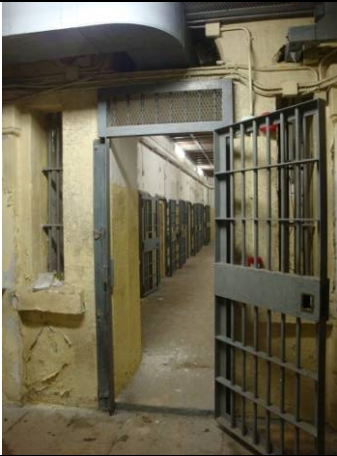
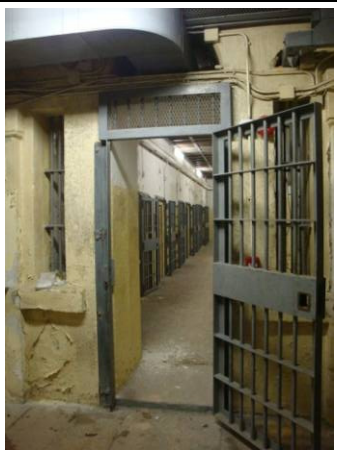

Element no.	Description	Photo ref.	Significance
13.015	Vinyl tile floor		Adverse



## Schedule of Character Defining Elements




### Central Police Station

#### 14 D Hall East Wing

Element no.	Description	Photo ref.	Significance
14.001	West entrance at Lower Ground Floor		Moderate
14.002	Half-round headed doorway and side lights		Moderate
14.003	Granite surround to cells (generally north side, alternating with brick surrounds – see next item)		Moderate




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
14.004	Brick reveals with bull-nosed arrisses and segmental arch over (generally north side, alternating with granite surrounds – see previous item)		High
14.005	Arched opening at East end First Floor		Low
14.006	Concrete floor generally at Lower Ground Floor		Low



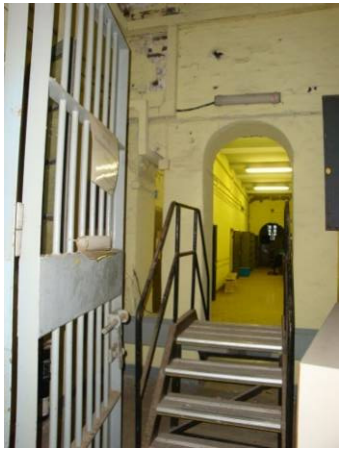
## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
14.007	Part-blocked windows at Lower Ground Floor - extent of blocking varies.		Moderate
14.008	External granite stair from Lower Ground to Ground Floor level		Moderate
14.009	Ashlar pattern on external walls		Moderate




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
14.010	Blocked doorway at south-east corner		Low
14.011	Metal security gate and screen		Low
14.012	Half-round headed doorway and side lights at Ground Floor west end		Moderate




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
14.013	Structural steelwork bracing and temporary access stair		Adverse
14.014	RC staircase at north-east corner		Low
14.015	Vinyl tile floor on suspended timber floor		Adverse

**Schedule of Character Defining Elements**




**Central Police Station**

Element no.	Description	Photo ref.	Significance
14.016	Cell walls at Ground Floor		Moderate
14.017	Mortuary		High
14.018	Brickwork surrounds to doorways with segmental arches over		Moderate






## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
14.019	Granite surrounds to doorways with lintels over		Moderate
14.020	Flat ceilings at Ground Floor		Low
14.021	Arched opening at east end		Low

**Schedule of Character Defining Elements**

**Central Police Station**

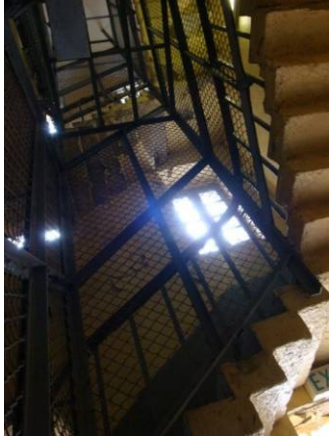


Element no.	Description	Photo ref.	Significance
14.022	Top-lit central hall		High
14.023	Arches across central hall at First Floor		Moderate
14.024	Inset security gate and screen in First Floor cells		Low



## Schedule of Character Defining Elements




### Central Police Station

#### 14 D Hall West Wing

Element no.	Description	Photo ref.	Significance
14.030	Main stair		High
14.031	Brick vault over central hall at Ground Floor		High
14.032	Terrazzo floor in central hall at Ground floor		Moderate




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
14.033	Brick vaults above cells		High
14.034	Cell walls (later additions)		Moderate
14.035	Brickwork spandrels below cell windows on south side at Ground Floor		Moderate




**Schedule of Character Defining Elements**

Central Police Station

Element no.	Description	Photo ref.	Significance
14.036	Cell walls flanking central hall		High
14.037	Cell floors		Low
14.038	Partition wall across central hall at Ground Floor		Low



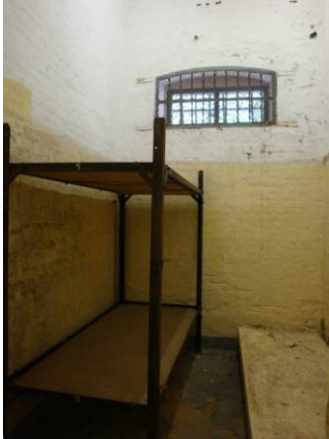
## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
14.039	Granite pavement in cross-passage between East and West Wings		Moderate
14.040	Granite threshold at doorway between cross-passage and East Wing		Moderate
14.041	Brick vault over cross-passage		High




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
14.042	Granite floor in central hall at First Floor		Moderate
14.043	Cell walls flanking central hall at First Floor		High
14.044	Brickwork spandrels below cell windows at Second Floor		Moderate

**Schedule of Character Defining Elements**





Central Police Station

Element no.	Description	Photo ref.	Significance
14.045	Metal security screen adjacent main stair		Moderate
14.046	Double-height central hall at Second Floor		High
14.047	View ports adjacent entrance doors		Moderate




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
14.048	Services installations		Adverse
14.049	Metalwork and structural steel framing on exterior (typical)		Adverse
14.050	Blind arcade, south elevation		Low
14.051	Blind arcade, north elevation		Low

## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
14.052	Fence wall, east end of D Hall Yard		Low




## 15 E Hall

Element no.	Description	Photo ref.	Significance
15.001	Dividing walls at Lower Ground Floor		Moderate
15.002	Dividing walls at Lower Ground Floor		Moderate






## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
15.003	Staircase within Laundry Yard		Moderate
15.004	Services installations		Adverse
15.005	Metal louvres over cell window openings		Low




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
15.006	Raised ground level adjacent entrance		Low
15.007	Access balconies and apertures		Moderate
15.008	Central staircase		High


## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
15.009	Cell walls flanking central hall		High
15.010	Services installations		Adverse
15.011	Balcony balustrades		Moderate

## Schedule of Character Defining Elements




### Central Police Station

Element no.	Description	Photo ref.	Significance
15.012	Second Floor central hall		High

## Schedule of Character Defining Elements





### Central Police Station

#### 17 F Hall

Element no.	Description	Photo ref.	Significance
17.001	Lay-in grid suspended ceiling		Adverse
17.002	Rainwater goods		Low
17.003	Exterior decorations		Adverse

## Schedule of Character Defining Elements





### Central Police Station

Element no.	Description	Photo ref.	Significance
17.004	External airconditioning units and other external services		Adverse
17.005	Fixed signs		Moderate
17.006	Security screen at First Floor entrance		Low
17.007	Metal windows		Moderate




## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
17.008	Fixed furniture		Moderate
17.009	Security screens		Moderate
17.010	Timber windows		Moderate
17.011	Communal washing/lavatory facilities		Moderate

**Schedule of Character Defining Elements**




Central Police Station

Element no.	Description	Photo ref.	Significance
17.012	Blocked up lantern light		Low
17.013	Security gates at Ground openings		Moderate
17.014	Interview booths		High






## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
17.015	External stair to First Floor		Moderate
17.016	Ground Floor main entrance		Low
17.017	Security screen at Ground Floor main entrance		Low




**Schedule of Character Defining Elements**

**Central Police Station**

Element no.	Description	Photo ref.	Significance
17.018	Blue Entrance Gate (facing Old Bailey Street)		High
17.019	Blue Entrance Gate (inner) and enclosed yard		Moderate
17.020	Blue Entrance Gate (inner) facing Prison Yard		Moderate


**Schedule of Character Defining Elements**

Central Police Station

Element no.	Description	Photo ref.	Significance
17.021	Barbed wire		Moderate
17.022	Metal security bars at windows		Moderate
17.023	External toilets at Ground Floor adjacent East elevation		Low

## Schedule of Character Defining Elements




### Central Police Station

Element no.	Description	Photo ref.	Significance
17.024	Open Visit Room		Low

## Schedule of Character Defining Elements


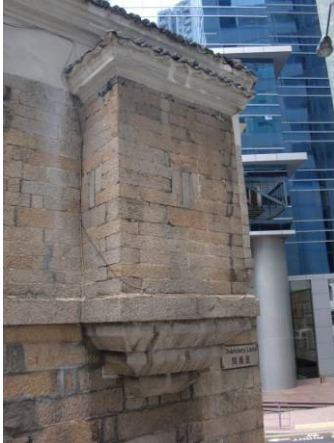

### Central Police Station

#### 19 Bauhinia House

Element no.	Description	Photo ref.	Significance
19.001	Pitched roofs		High
19.002	Chimney		High
19.003	Rainwater goods and other external services		Adverse




**Schedule of Character Defining Elements**

Central Police Station

Element no.	Description	Photo ref.	Significance
19.004	External stone wall facing		High
19.005	Gun loops		High
19.006	Look-out turret		High






**Schedule of Character Defining Elements**  
**Central Police Station**

Element no.	Description	Photo ref.	Significance
19.007	Windows		Moderate
19.008	Modern partitions		Adverse
19.009	Electrical services		Adverse

## Schedule of Character Defining Elements

### Central Police Station

Element no.	Description	Photo ref.	Significance
19.010	Lay-in grid suspended ceiling		Adverse
19.011	Exposed timber roof structure		High
19.012	Timber stair		Moderate