



Leighton Joint Venture

c/o 39<sup>th</sup> Floor  
Sun Hung Kai Centre  
30 Harbour Road  
Hong Kong  
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f: +852 2529 8784

22-Sep-2016

Your Ref: (5) in EP2/H4/S3/15 Pt. 41  
Our Ref: H2613-LJV-EN-LE-4006

The EIA Ordinance Register Office  
Environmental Protection Department  
27/F, Southorn Centre  
130 Hennessy Road  
Wan Chai, Hong Kong

Dear Sir,

**Contract No. HY/2011/08**  
**Central-Wan Chai Bypass – Tunnel Buildings, Systems and Fittings, and Works**  
**Associated with Tunnel Commissioning**  
**Construction Noise Management Plan (Rev. 4)**

Pursuant to Condition 2.9 of the Environmental Permit no. FEP-11/364/2009/B and referring to your captioned letter, we enclose four hard copies and one electronic copy of our responses-to-comments table and the revised plan with ET's certification letter and IEC's verification letter for your information.

Should you have any query, please do not hesitate to contact our Mr. Malcolm Leung at 6323 9478, or malcolm.leung@leightonasia.com.

Yours faithfully  
For and on behalf of  
Leighton Joint Venture

Colman Wong  
Project Director

CW / PT / ML / CTS  
*24/9*

Encl.

c.c.	AECOM	- Mr. David Kwan, CRE	(CD only)
	LAM	- Mr. Raymond Dai, ETL	(CD only)
	ENVIRON	- Mr. David Yeung, IEC	(CD only)

Ref.	Comments	Responses
<b>General Comment</b>		
	We refer to your letter under reference depositing the captioned Construction Noise Management Plan (CNMP) as per Condition 2.9 of the Further Environmental Permit No. FEP-11/364/2009/B.	Noted.
2.	We note that your company has deposited the CNMP to EPD three times since July 2014. To avoid any abortive work, please critical review the CNMP and address EPD's comments below in the next submission:	Noted.
a.	Satisfactory proposal of noise mitigation measures, which are recommended in the approved EIA report and required in Condition 2.9, was found neither in the past versions nor in the current version of the CNMP. For example, details, with photos, typical plans and sections where appropriate, on the use of movable/temporary noise barriers, the use of quiet powered mechanical equipment items and the adoption of multiple-phase construction schedules in the EIA report should be given in the CNMP.	Noted. The current submission has mentioned such kind of noise mitigation measures.
b.	RtC item c, S3.3 & revised Appendix 4.14 in Appendix D – It is not appropriate to review the construction noise impact for only part of the CWB project.	Noted. The current submission has not reviewed the cumulative construction noise impact and focused on noise mitigation measures which are beneficial to the CWB project.
c.	RtC items a, b & k – noise mitigation measures should be provided to construction activities of the FEP according to the approved EIA report. Some relevant recommended mitigation measures have been highlighted in the attached extract from Appendix 4.13 of the EIA report (See Appendix A). The CNMP should have discussed the practicality of these measures for each tunnel building covered by FEP no. FEP-11/364/2009/B.	Noted. The current submission has mentioned the noise mitigation measures.
d.	RtC item h & Appendix C – The amphitheatre in HKAPA (i.e. open arena in the EIA report) has been provided with central air-conditioning and fully enclosed since 2010. It will not rely on opened windows for ventilation. The photo of HKAPA and its caption were outdated. Similar comment has been given before.	Noted. The photo has been updated.
e.	Figure 4.7 – The figure is incomplete.	Noted.

**LEIGHTON**



Contract No. HY/2011/08  
Central-Wan Chai Bypass – Tunnel Building,  
Systems and Fittings, and Works Associated with  
Tunnel Commissioning

**Construction Noise Management Plan**

*Prepared by:*

A handwritten signature in blue ink, appearing to read 'Malcolm Leung', positioned above a horizontal line.

**Malcolm Leung**  
**Environmental Officer**

*Approved by:*

A handwritten signature in blue ink, appearing to read 'Colman Wong', positioned above a horizontal line.

**Colman Wong**  
**Site Agent**



# Lam Geotechnics Limited

Ground Investigation & Instrumentation Professionals

華益土力有限公司

Ref : G1125/CS/L229/LJV  
Date : 15 September 2016

**Leighton Joint Venture**  
39/F Sun Hung Kai Centre  
30 Harbour Road  
Wan Chai Hong Kong

**Attn: Site Agent, Mr. Colman Wong**

Dear Mr. Wong,

**Contract No. HY/2011/08**  
**Central – WanChai Bypass Tunnel –Tunnel Buildings, Systems and Fittings, and**  
**Works Associated with Tunnel Commissioning**  
**Noise Management Plan (Rev. 4)**

Referring to the captioned submission dated 16 August 2016 received through email on 16 August 2016, we have reviewed your submitted details and hereby certified this submission in accordance with Condition 2.9 of FEP-11/364/2009/B.

Should you have any enquiry, please feel free to contact the undersigned at 2839 5666.

Yours faithfully,

Raymond Dai  
Environmental Team Leader

C.C.

HyD	- Mr. Eddie Wu	(By Fax: 2714 5289)
AECOM	- Mr. Peter Poon	(By Fax: 3153 5812)
AECOM	- Mr. Frankie Fan	(By Fax: 2587 1877)
Ramboll Environ	- Mr. David Yeung	(By Fax: 3548 6988)





Ref.: AACWBIECEM00\_0\_8532L.16

20 September 2016

By E-mail

Leighton Joint Venture  
39/F, Sun Hung Kai Centre  
30 Harbour Road  
Hong Kong

Attention: Site Agent, Mr. Colman Wong

Dear Mr. Wong,

**Re: Contract No. HY/2011/08  
Central – Wan Chai Bypass – Tunnel Buildings, Systems and Fittings,  
and Works Associated with Tunnel Commissioning  
Construction Noise Management Plan (Revision 4)**

Reference is made to the captioned submission received on 16 August 2016.

Please be informed that we have no comments on the captioned submission. We write to verify it in accordance with Condition 2.9 of FEP-11/364/2009/B.

Thank you for your kind attention.

Yours sincerely,



David Yeung  
Independent Environmental Checker

c.c.	HyD	Mr. Eddy Wu	by fax: 2714 5289
	AECOM	Mr. Peter Poon	by fax: 3912 3010
	AECOM	Mr. Frankie Fan	by fax: 2587 1877
	LAM	Mr. Raymond Dai (ETL)	by fax: 2882 3331

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## Construction Noise Management Plan

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Appendix 3A	Representative Noise Sensitive Receivers
Appendix 4A	Temporary Noise Barriers for ADB (by Contract No. HY/2009/19)
Appendix 4B	QPME Mobile Crane

Revision	Date	Section/Description	Prepared	Reviewed	Authorised by
00	17.07.2014	Issue for Construction	Donald Ip	Donald Ip	Colman Wong
01	19.12.2014	Addressed comments from EPD	Penny Yiu	Chris Chan	Colman Wong
02	25.06.2015	Responses to Comments	Malcolm Leung	Malcolm Leung	Colman Wong
03	19.01.2016	Responses to Comments	Malcolm Leung	Malcolm Leung	Colman Wong
04	16.08.2016	Responses to Comments	Malcolm Leung	Malcolm Leung	Colman Wong

## Construction Noise Management Plan

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### 1. INTRODUCTION

- 1.1.1 To comply with the Condition 2.9 under Environmental Permit number: FEP-11/364/2009/B, a Construction Noise Management Plan (hereinafter referred to as “this plan”) is prepared to show the noise mitigation measures to include:  
(a) the use of movable / temporary noise barriers, the use of quiet powered mechanical equipment and the adoption of multiple-phase construction schedules, where appropriate.
- 1.1.2 This plan provides the project descriptions, the layout plans and the construction programme from the construction of the Central - Wan Chai Bypass - Tunnel Building, Systems and Fittings and Works Associated with Tunnel Commissioning (Contract No. HY/2011/08, hereinafter referred to as “the CWB-CC”).
- 1.1.3 Leighton Joint Venture (the Contractor, hereinafter referred to as “LJV”) has been awarded for the construction of the CWB-CC. LJV has reviewed the possibilities to use movable / temporary noise barriers, quiet powered mechanical equipment and the adoption of multiple-phase construction schedules.

## Construction Noise Management Plan

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### 2. PROJECT BACKGROUND (CONTRACT NO. HY/2011/08)

2.1.1 The CWB-CC is one of the Central - Wan Chai Bypass (CWB) contracts for the CWB project. The extent of the CWB-CC alignment is extensive from Sheung Wan, via Central - Wan Chai - Causeway Bay - Tin Hau, to North Point, as shown in **Appendix 2A**. The tentative construction programme is presented in **Appendix 2B**.

2.1.2 The scope of the CWB-CC's works mainly includes:

- construction of the tunnel control buildings and ventilation buildings including Administration Building (ADB), West Ventilation Building (WVB), Central Ventilation Building (CVB) [i.e. namely Middle Ventilation Building (MVB) in the CWB-CC contract], East Ventilation Building (EVB) and East Vent Shaft (EVS);
- associated road lighting, road signing, traffic control and surveillance system; and
- other associated works.



## Construction Noise Management Plan

### 3. CONCERNS REGARDING CONSTRUCTION NOISE

3.1.1 Construction noise impacts had been assessed in the CWB&IECL EIA Report (Register No. AEIAR-041/2001) and the WDII&CWB EIA Report (Register No. AEIAR-125/2008).

#### 3.2 Noise Sensitive Receivers (NSRs)

3.2.1 **Table 3.1** shows the representative NSRs identified in the CWB&IECL EIA Report and the WDII&CWB EIA Report. The photographs of the representative NSRs are shown in **Appendix 3A**.

**Table 3.1 Representative Existing and Planned NSRs identified in the WDII&CWB EIA Report and the CWB&IECL EIA Report.**

NSR	Area	Location	Use	Ground elevation (mPD)	No. of Floors
N1	Wan Chai	The Hong Kong Academy for Performing Arts (HKAPA) (with central air-conditioning)	Performing Arts Centre	5.0	G/F
N2	Wan Chai	Causeway Centre	Residential	4.0	42
N3	Wan Chai	169 – 170 Gloucester Road	Residential	3.7	12
N4	Wan Chai	Kam Kwok Building	Residential	3.7	18
N5	Wan Chai	Hyde Centre	Residential	3.7	22
N6	Causeway Bay	Elizabeth House	Residential	3.7	21
N7	Causeway Bay	Riviera Mansion	Residential	4.3	15
N8	Causeway Bay	Marco Polo Mansion	Residential	4.3	15
N9	Tin Hau	Viking Garden	Residential	4.0	25
N10	Tin Hau	Victoria Court	Residential	4.0	18
N11	Tin Hau	Mayson Garden	Residential	4.0	24
N12	Tin Hau	Gordon Garden	Residential	4.0	15
N13	Tin Hau	Belle House	Residential	3.6	24
N14	Tin Hau	Hoi Tao Building	Residential	4.0	30
N15	Tin Hau	Staff Quarters of FEHD	Residential	4.0	4
N16	Tin Hau	Victoria Centre	Residential	4.0	30
N17	Tin Hau	Harbour Heights	Residential	4.3	44
N17-A	Tin Hau	Harbour Heights – A	Residential	4.3	44
N18	North Point	City Garden, Block 10	Residential	4.0	27
N18-A	North Point	City Garden, Block 11	Residential	4.0	27
N18-B	North Point	City Garden, Block 10 – B	Residential	4.0	27
N19	North Point	City Garden, Block 7	Residential	4.0	27
N19-A	North Point	City Garden, Block 7 – A	Residential	4.0	27
N20	North Point	Hong Kong Baptist Church Henrietta Secondary School	Educational Institution	4.0	6

## Construction Noise Management Plan

NSR	Area	Location	Use	Ground elevation (mPD)	No. of Floors
N21	North Point	Provident Centre, Block 1	Residential	4.0	25
N22	North Point	Provident Centre, Block 6	Residential	4.0	25
N23	North Point	Provident Centre, Block 17	Residential	4.0	25
N24	Sheung Wan	Korea Centre	Residential	4.0	13
N25	Central	City Hall	Performing Arts Centre	4.0	5
N26	Central	PLA Headquarters	Others (Military)	-	-
P1-A	Tin Hau	Planned location for Re-provisioned Tin Hau Temple (West Facing Façade)	Temple	3.6	1
P1-B	Tin Hau	Planned location for Re-provisioned Tin Hau Temple (South Facing Façade)	Temple	3.6	1
P2	North Point	A land zoned as "CDA(1)" near Oil Street	CDA(1)	4.0	53 <sup>(1)</sup>
P3	North Point	A land zoned as "CDA" near Oil Street	CDA	4.5	34 <sup>(1)</sup>
AD1 <sup>(2)</sup>	North Point	Wan Wah Mansion	Residential	4.0	24

Note: (1) The assumed number of floors was based on information provided by Planning Department on the maximum building heights of 165mPD for CDA(1) site and 100mPD for CDA site (within 60m of the northwest boundary) as mentioned in the EIA Report.

(2) Not considered in the approved EIA reports.

### 3.3 Noise Impacts

- 3.3.1 Construction noise impacts to the NSRs was assessed in Appendix 4.13 / Appendix 4.14 of the WDII&CWB EIA report.
- 3.3.2 The substructures will be completed by other contracts prior to hand over the site portion to this Contract no. HY/2011/08. As the piling works of the tunnel buildings will also be completed by other contracts, LJV will not use any piling equipment during the construction of the tunnel buildings' superstructure.
- 3.3.3 LJV will be responsible for the construction of tunnel buildings' superstructures. Although sole construction of the tunnel buildings' superstructures will not have significant and irreversible noise impacts to nearby residents, it is considered that there will be cumulative construction noise impacts for the CWB project.



## Construction Noise Management Plan

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### 4. NOISE MITIGATION MEASURES

- 4.1.1 To mitigate the noise impacts as reasonably practicable, LJV has reviewed the site constraint and will implement the following mitigation measures during the construction of tunnel buildings' superstructures.

#### Administration Building (ADB)

- 4.1.2 During the construction of the ADB, LJV will work behind temporary noise barriers. The design and the location of them are attached in **Appendix 4A**. Hence, the temporary noise barriers will be maintained until end of 2017 and covers the tentative completion date of the ADB in August 2017.
- 4.1.3 During the construction of the ADB, LJV will employ a crane lorry (gross vehicle weight  $\leq 38$  tonne) / a QPME mobile crane for lifting operation. The photo and the QPME labels for the QPME mobile crane are attached in **Appendix 4B**.
- 4.1.4 LJV will employ quieter electric vibratory pokers for the replacement of diesel vibratory pokers. In addition, quieter electric hand-tools will be used for the replacement of pneumatic hand-tools to avoid the use of air compressors.
- 4.1.5 LJV will employ quieter electric submersible water pumps for the replacement of electric water pumps.

#### West Ventilation Building (WVB)

- 4.1.6 During the construction of the WVB, LJV will employ a QPME mobile crane for lifting operation. The photo and the QPME labels for the QPME mobile crane are attached in **Appendix 4B**.
- 4.1.7 LJV will employ quieter electric vibratory pokers for the replacement of diesel vibratory pokers.

#### Central Ventilation Building (CVB)

- 4.1.8 LJV will employ quieter electric vibratory pokers for the replacement of diesel vibratory pokers.

#### East Ventilation Building (EVB)

- 4.1.9 During the construction of the EVB, LJV will employ a QPME mobile crane for lifting operation. The photo and the QPME labels for the QPME mobile crane are attached in **Appendix 4B**.
- 4.1.10 LJV will employ quieter electric vibratory pokers for the replacement of diesel vibratory pokers.

## Construction Noise Management Plan

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- 4.1.11 Since the locations of the EVB and the EVS are close together and the construction of the superstructures will cause cumulative noise impacts if they are constructed in the same time, LJV will separate the construction period for the EVB's and the EVS's superstructure. The construction programme is attached in **Appendix 2B**.

### East Vent Shaft (EVS)

- 4.1.12 LJV will employ quieter electric vibratory pokers for the replacement of diesel vibratory pokers.
- 4.1.13 Since the locations of the EVB and the EVS are close together and the construction of the superstructures will cause cumulative noise impacts if they are constructed in the same time, LJV will separate the construction period for the EVB's and the EVS's superstructure. The tentative construction programme is attached in **Appendix 2B**.



## Construction Noise Management Plan

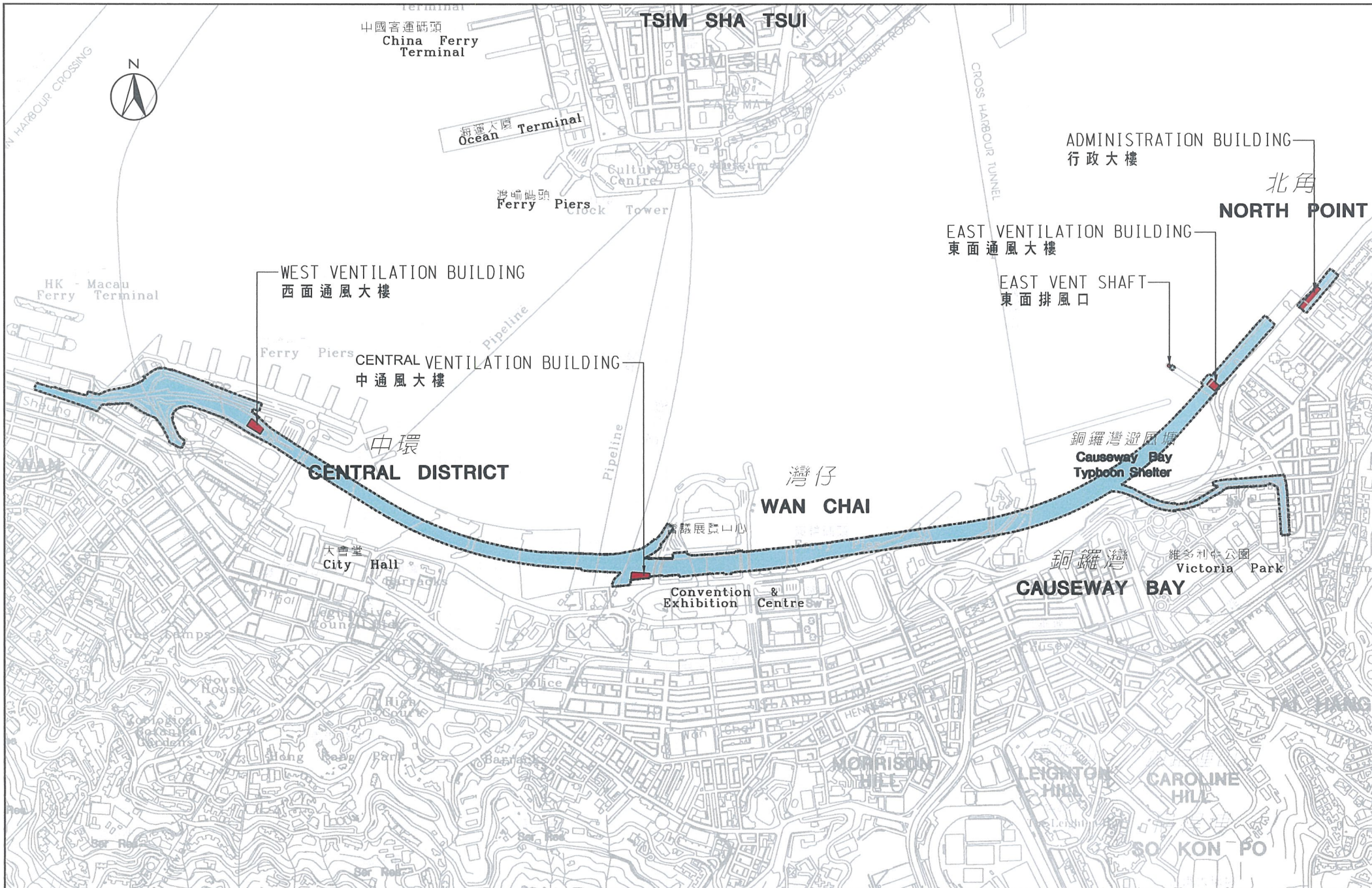
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### 5. CONCLUSION

- 5.1.1 Although sole construction of tunnel buildings' superstructures will not have significant and irreversible noise impacts to nearby residents, it is considered that there will be cumulative construction noise impacts for the CWB project.
- 5.1.2 Hence, LJV will implement appropriate noise mitigation measures as reasonably practicable, which could minimize the potential nuisance to the public.
- 5.1.3 LJV has reviewed the possibilities to use movable / temporary noise barriers, quiet powered mechanical equipment and the adoption of multiple-phase construction schedules. LJV considered that temporary noise barriers, QPME and the adoption of multiple-phase construction schedules are applicable to the contract. The measures had been discussed in the previous section.
- 5.1.4 To facilitate the effectiveness of mitigation measures and minimize the cumulative construction noise impacts, regular Interface Meetings will be held with other interface CWB contracts to exchange project information. This would help to formulate future practicable noise mitigation measures and review the construction programme when necessary.

## Appendix 2A      Project Layout Plan





合約編號 HY/2011/08 中環灣仔繞道 - 隧道大樓、系統設備及隧道啟用相關工程

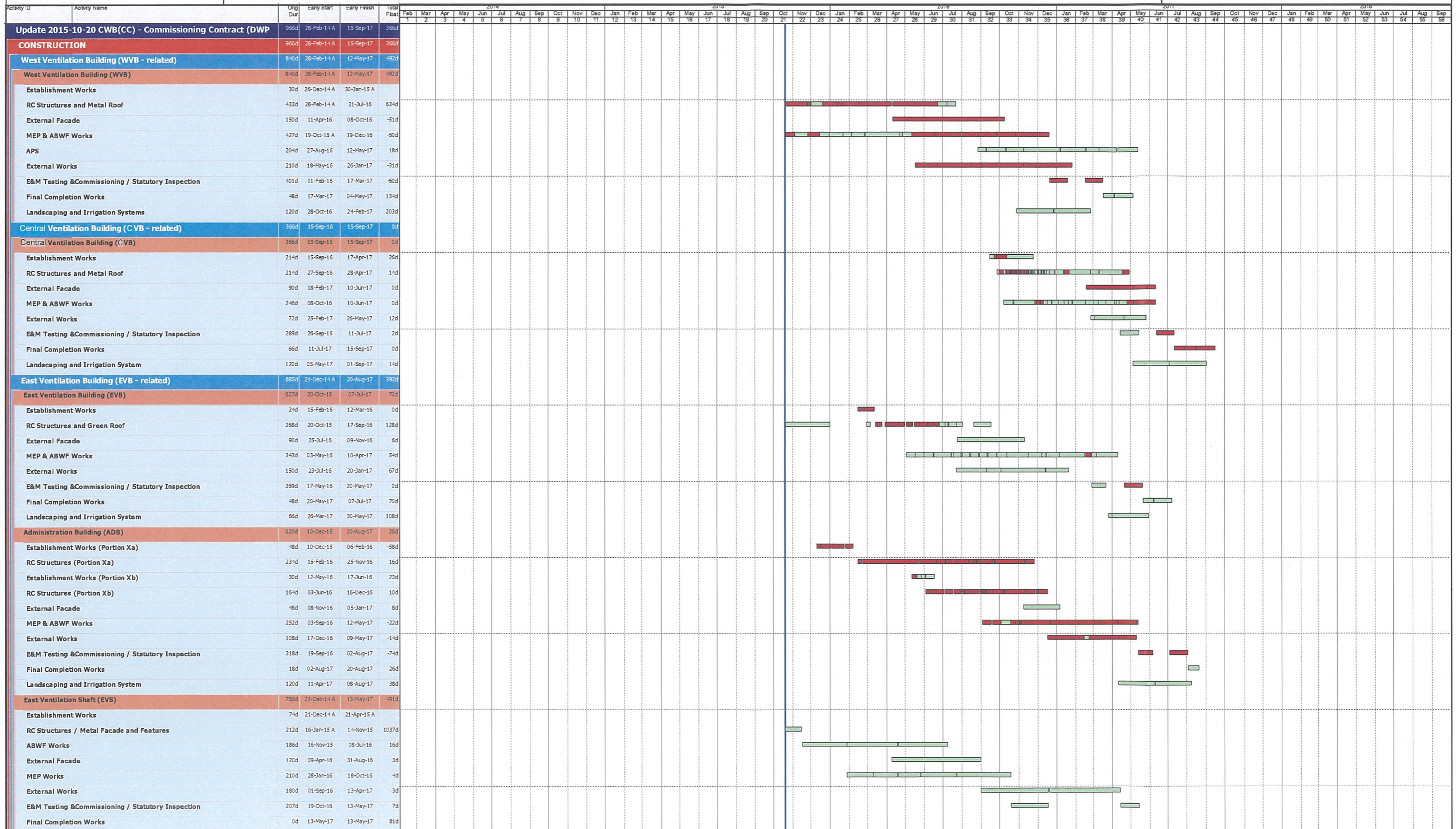
CONTRACT NO. HY/2011/08 - CENTRAL - WAN CHAI BYPASS - TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

SCALE 1 : 16000 A4

## Appendix 2B      Tentative Construction Programme



## Update 2015-10-20 CWB(CC) - Commissioning Contract (DWP R2d) - Approved



◆ Current Milestone  
■ Actual Work  
■ Critical Remaining Work  
■ Remaining Work  
▬ Remaining Level of Effort

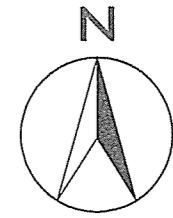
### Leighton Contractors (Asia) Limited Detail Works Programme Rev.2d (DWP2d)

Project ID: H2613DW2d-3  
 Baseline:  
 Layout: H2613 - DWP2d  
 Filter: TASK filters: building, No Summary\_1.

Date	Revision	Checked	Approved
12-Jun-14	Initial Works Programme (IWP)	AT	CW
19-Sep-14	Detail Works Programme Rev.0 (...)	AT	CW
26-Nov-14	Detail Works Programme Rev.1 (...)	AT	CW
19-Jan-15	Detail Works Programme Rev.2 (...)	AT	CW
05-Mar-15	Detail Works Programme Rev.2a (...)	AT	CW
6-Aug-15	Detail Works Programme Rev.2b (...)	AT	CW
02-Oct-15	Detail Works Programme Rev.2c (...)	AT	CW



## Appendix 3A      Representative Noise Sensitive Receivers



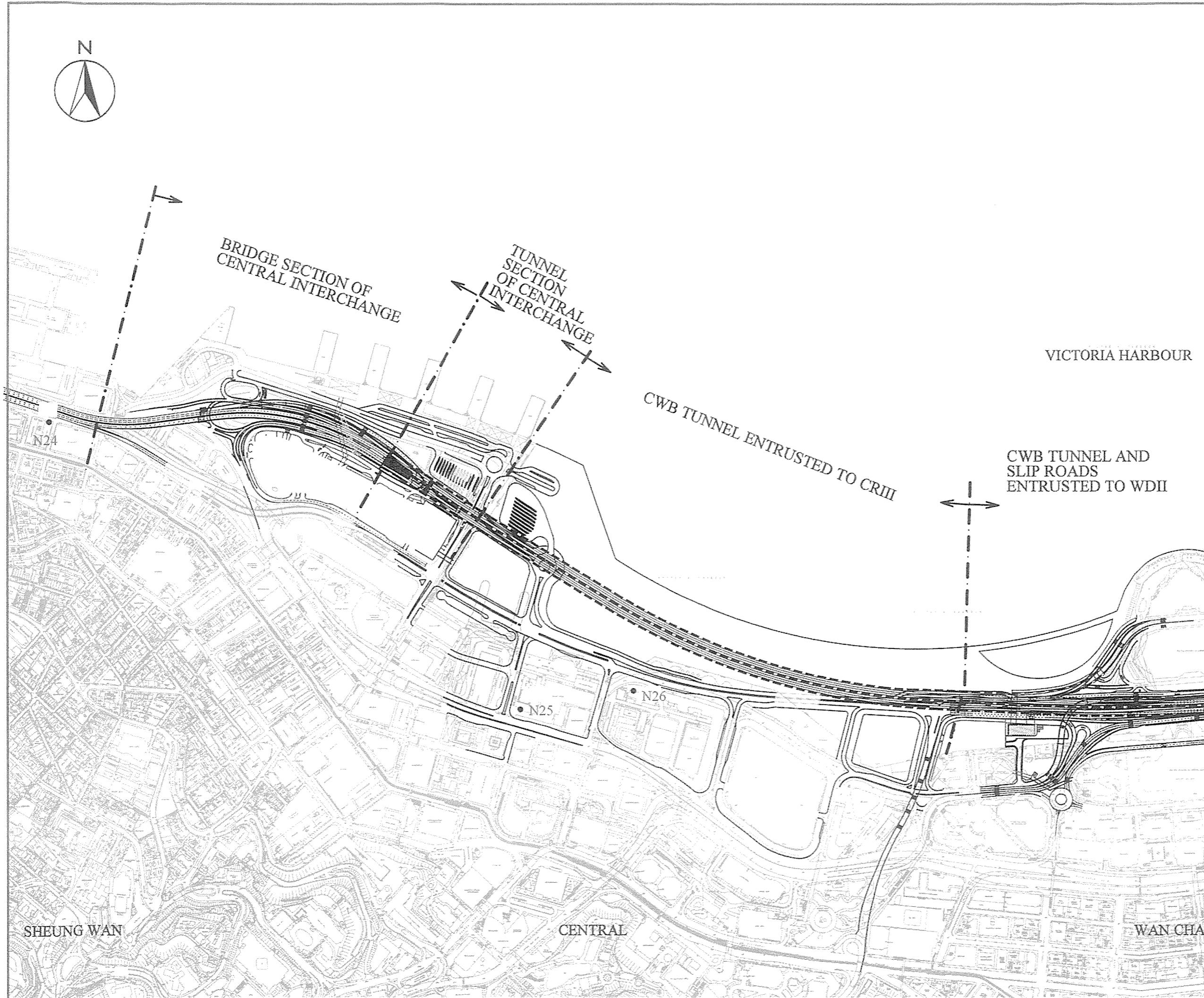
**LEGEND:**

● N1-N23, AD1	EXISTING NOISE SENSITIVE RECEIVER
● P1-P3	PLANNED NOISE SENSITIVE RECEIVER
-----	300M STUDY BOUNDARY



Legend :

- N1 Noise Sensitive Receiver



Highways Department 路政署  
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

LOCATIONS OF REPRESENTATIVE NOISE SENSITIVE RECEIVERS

MAUNSELL CONSULTANTS ASIA LTD  
茂盛亞洲工程顧問有限公司

DRG. NO. 圖號		DATE OF ISSUE 出圖日期	
DESIGNED BY 設計	AM	CONTRACT NO. 合約編號	MAY 2001
DRAWN BY 繪圖	EH	STATUS 圖則	
SCALE 比例	1 : 4500	COPYRIGHT RESERVED 版權所屬	
UNIT 單位	METRES		

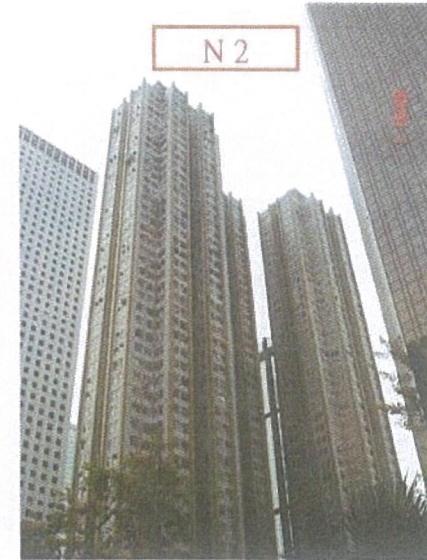
Mausnell



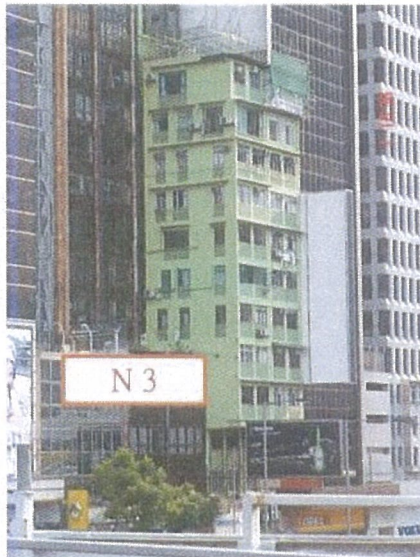
Appendix 3A – Representative NSRs



HKAPA



Causeway Centre



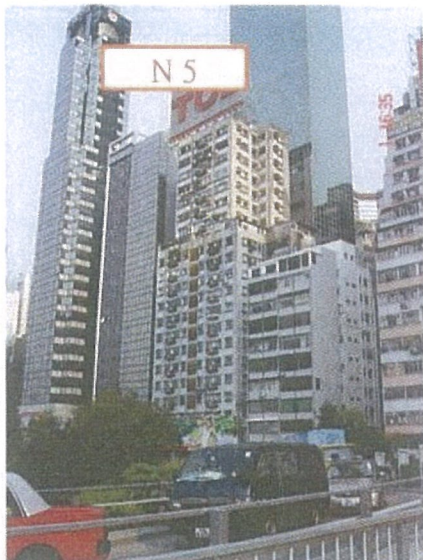
Gloucester Road 169 - 170



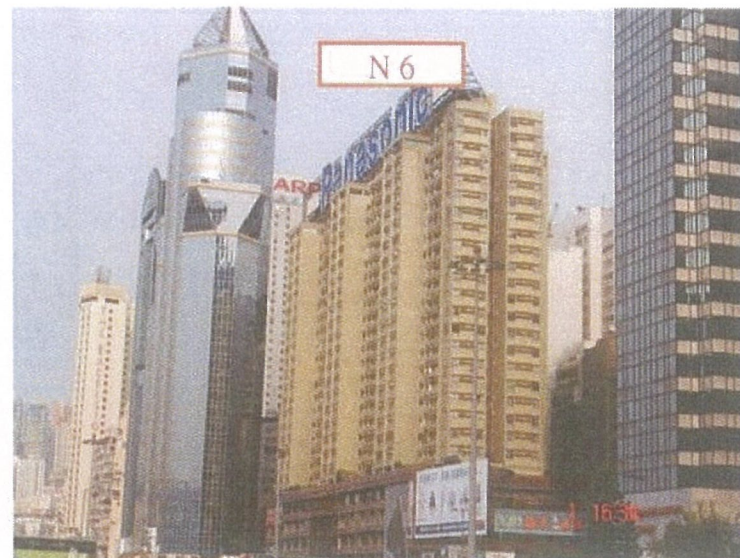
Kam Kok Building



Appendix 3A – Representative NSRs



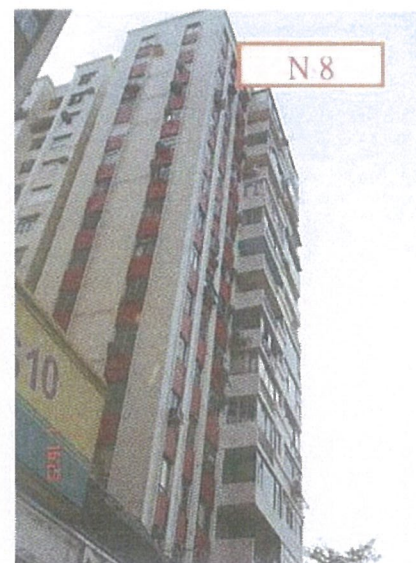
Hyde Centre



Elizabeth House



Riviera Mansion



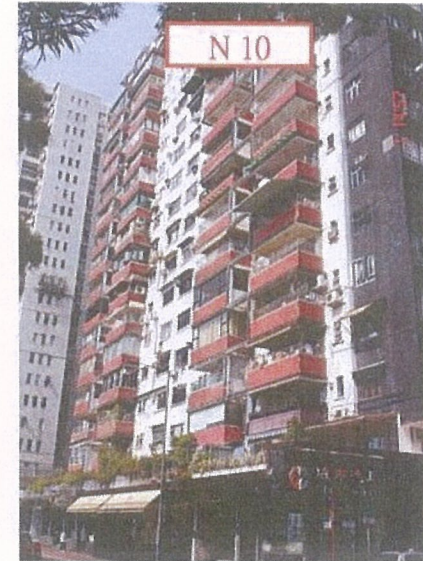
Macro Polo Mansion



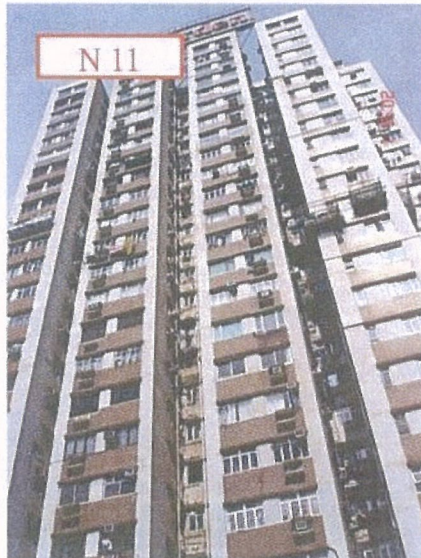
Appendix 3A – Representative NSRs



Viking Garden



Victoria Court



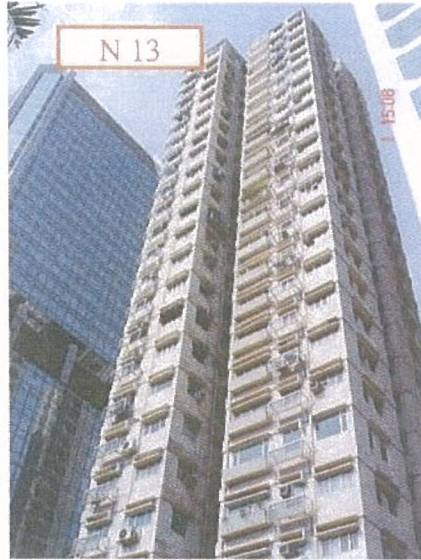
Mayson Garden



Gordon House



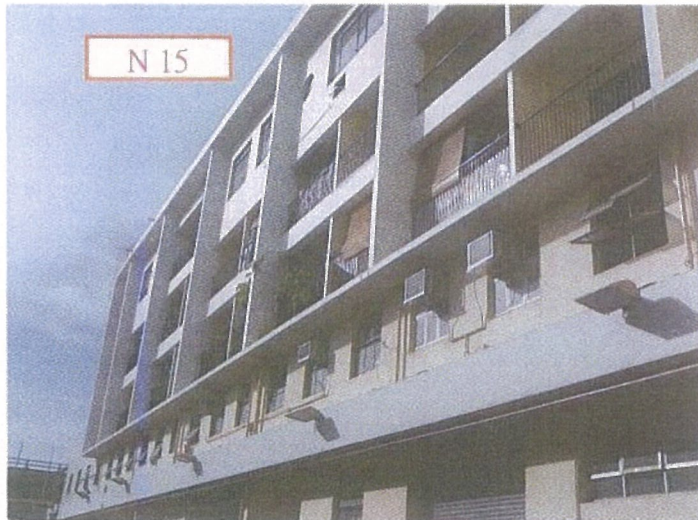
Appendix 3A – Representative NSRs



Belle House



Hoi Tao Building



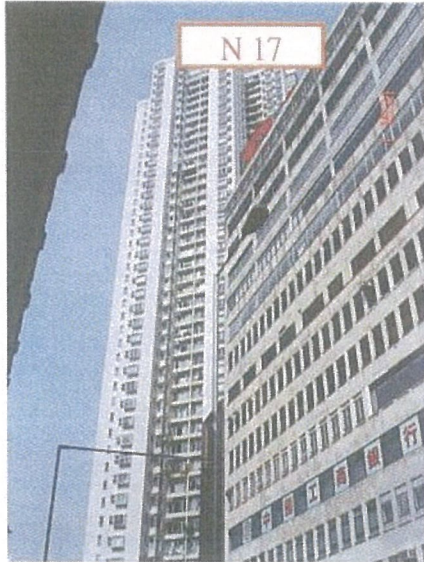
Staff Quarters of FEHD



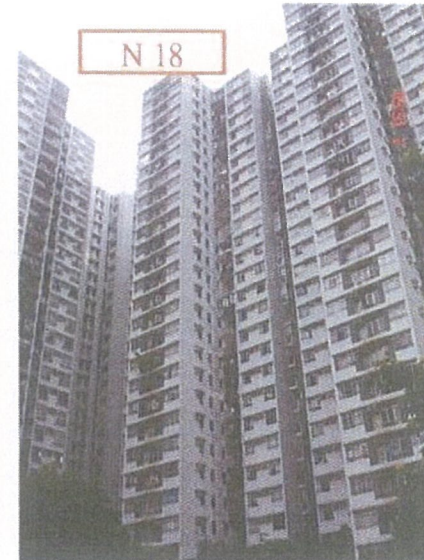
Victoria Centre



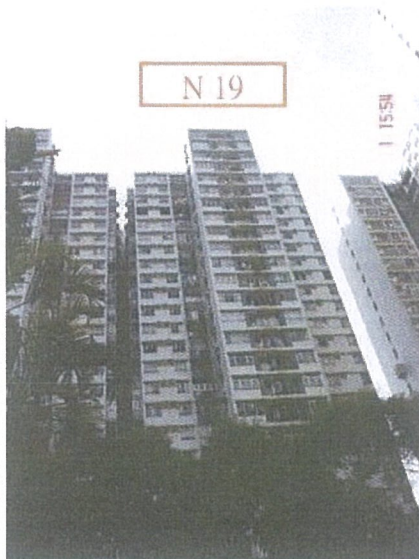
Appendix 3A – Representative NSRs



Harbour Heights



City Garden, Block 10



City Garden, Block 7



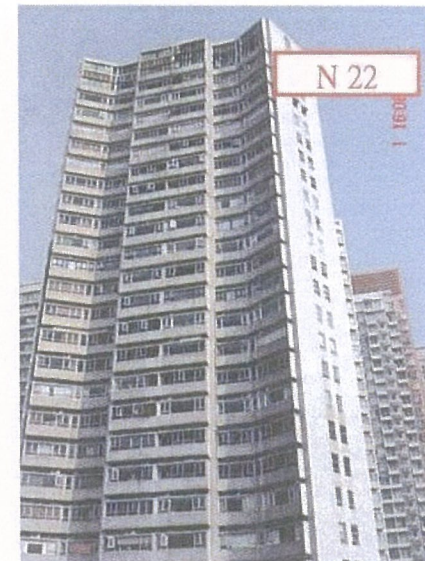
Hong Kong Baptist Church Henrietta Secondary School



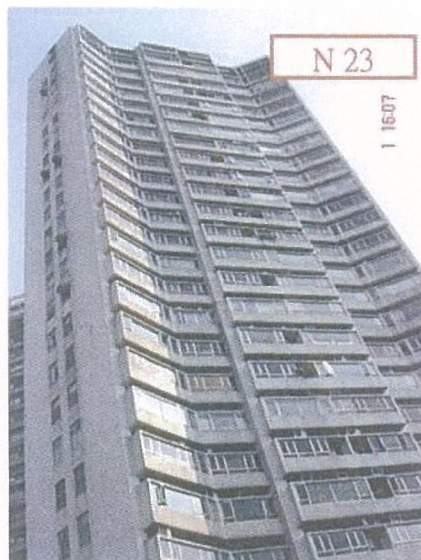
Appendix 3A – Representative NSRs



Provident Centre, Block 1



Provident Center, Block 6



Provident Center, Block 17



Korea Centre



Appendix 3A – Representative NSRs



N25 – City Hall



N26 – PLA Headquarters



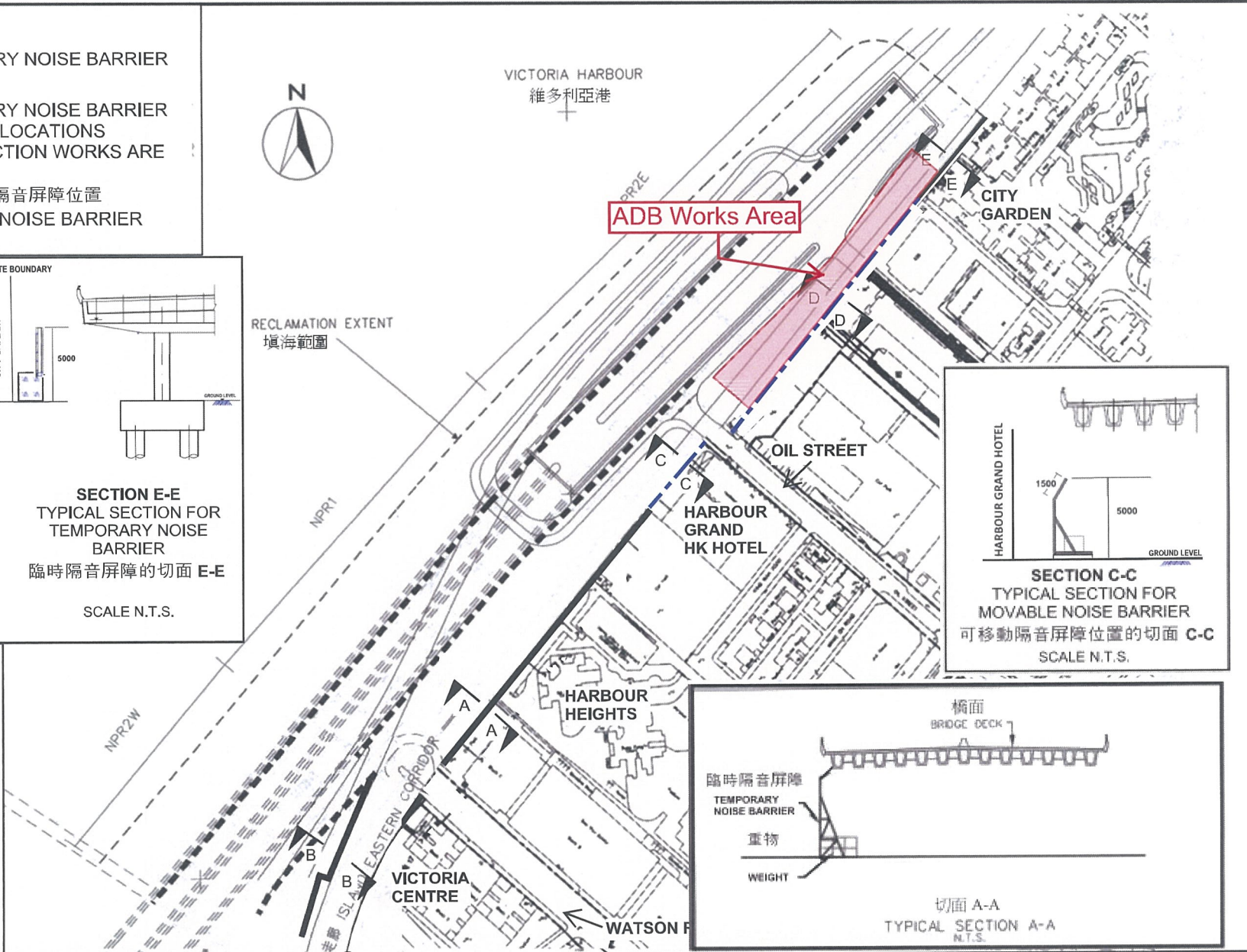
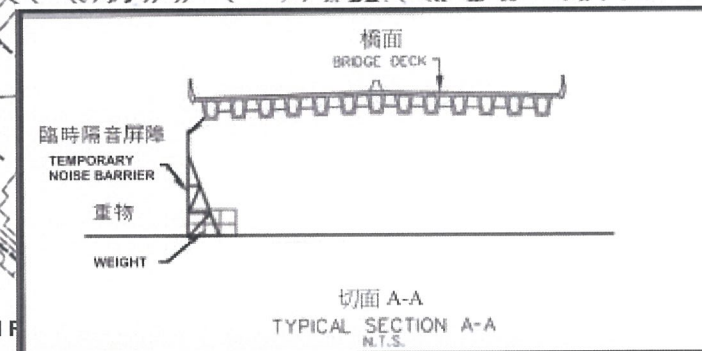
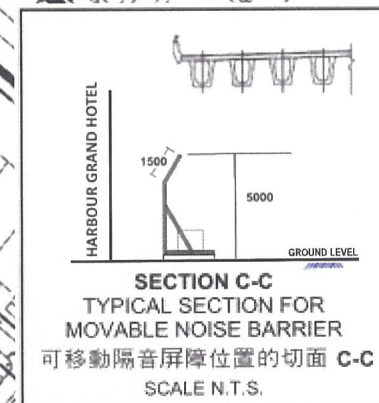
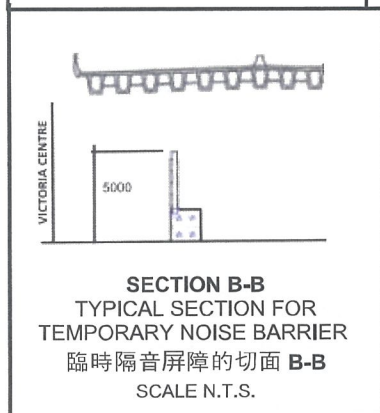
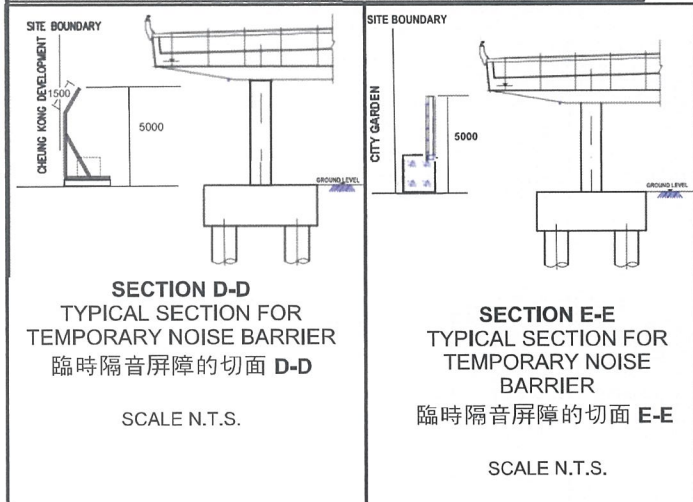
AD1 - Wan Wah Mansion

**Appendix 4A      Temporary Noise Barriers for ADB  
(by Contract No. HY/2009/19)**



LEGEND: 圖例

- LINE OF TEMPORARY NOISE BARRIER  
臨時隔音屏障位置
- ■ ■ ■ LINE OF TEMPORARY NOISE BARRIER  
(TO BE PLACED AT LOCATIONS  
WHERE CONSTRUCTION WORKS ARE  
IN PROGRESS)  
施工期間設置的臨時隔音屏障位置
- ■ ■ ■ LINE OF MOVABLE NOISE BARRIER  
可移動隔音屏障位置



俊和 中國中鐵 MBEC  
CHUN WO - CRGL - MBEC  
JOINT VENTURE

Figure 2: Location of Temporary Noise Barriers during Construction Phase in North Point Waterfront  
圖 2: 在北角海旁施工期間的臨時隔音屏障位置圖

Central - Wan Chai Bypass - Tunnel (North Point Section) and  
Island Eastern Corridor Link



**Construction Noise Management Plan**

Photo 4A-1 Temporary noise barriers (eastern portion) for the construction of ADB (by Contract No. HY/2009/19)



## Construction Noise Management Plan



Photo 4A-2 Temporary noise barriers (western portion) for the construction of ADB (by Contract No. HY/2009/19)



俊和-中國中鐵-中鐵大橋局聯營  
CHUN WO - CRGL - MBEC JOINT VENTURE

Your ref. : N/A  
Our ref. : CWCRMBJV/610/18687-2016

12 January 2016

Mr. S.K. Lo  
Chief Resident Engineer  
8/F Grand Central Plaza, Tower 2  
139 Shatin Rural Committee Road,  
Shatin, Hong Kong

Dear Mr. Lo,

**Contract No. HY/2009/19**  
**Central – Wan Chai Bypass – Tunnel (North Point Section) and Island Eastern Corridor Link**  
**Notes of Interface Meeting No.19 with HyD's Commissioning Contract (CC) – Central – Wan Chai Bypass**

With reference to the Interface Meeting No. 19 held on 5 November 2015 and we are pleased to enclose herewith the notes of meeting for your information and retention.

Yours sincerely,  
For and on behalf of  
Chun Wo – CRGL – MBEC Joint Venture

David Lau  
Site Agent

Encl.

c.c.	AECOM (HO)	-	Mr. Alex Li	] w/e
	AECOM (H.O.)	-	Mr. Peter POON	] w/e
	LJV (CC)	-	Mr. Jimmy LEUNG	] w/e
	Head Office			] w/e

EF/BD/IW/BA/cl



Contract No. HY/2009/19  
Central-Wan Chai Bypass – Tunnel (North Point Section) and IECL

DATE OF MEETING	TIME	VENUE	MEETING NO.
5 Nov 2015	16:00	CRE Office, 11/F, Seaview Estate	19
<b>SUBJECT</b>	<b>Interface Management Meeting – CWB (CC) [HY/2011/08] and CWB(C19)[HY/2009/19]</b>		
<b>Attendance</b>			
<u>HyD</u> Mr. Jimmy CHAN	<u>RSS(I &amp; P) – AECOM</u> Mr. Norman TAM (Chairman) Mr. Eric CHAN Mr. Nation CHENG	<u>RSS(CC) – AECOM</u> Mr. K.W.CHAN Mr. EI CHAN Mr. C. M. CHEUNG Mr. Eddie YEUNG Mr. L.S. CHAN  Task Force Mr. W. K. LEUNG Mr. C.K. LIN	<u>RSS(C19) – AECOM</u> Mr. Johan K. H. WONG Mr. Victor LEUNG Ms. S.Y.TSE Mr. Paul YIM Mr. K.Y. LAM Mr. Terence HO Mr. Pento CHAN
		<u>Contractor (CC) – LJV</u> Mr. Jimmy LEUNG Mr. Hilary POON Mr. Herman LEUNG Mr. Jackie CHAN Mr. Thomas CHAN Mr. Chris LAU Mr. Anthony NGAN	<u>Contractor (C19) – CCMJV</u> Mr. Eric FONG Mr. Bear DING Mr. Wingo WONG

Item No.	Description	Action
0.0	<b>About The Meeting Notes</b>	
0.0	It was stressed that the draft meeting notes should be provided within 2 weeks after the interface meeting. CCMJV noted and replied that they would improve it in future.	--
1.0	<b>General Interface Arrangements</b>	
1.1	AECOM reiterated that, as per the requirements specified under the Particular Specification of both contracts (i.e. CC and C19), the access allowed should be "free, reasonable and safe". It is reasonably foreseeable that the scheduled works under CC Contract would be gradually increased, whereas the remaining outstanding and defect rectification works under C19 inside the tunnel and APS basement would be decreased. Therefore, an agreed schedule for delivery of materials and plant to tunnel Bay 1a area should be assessed from time to time to cater for each other's programme of works satisfactorily and effectively.	LJV and CCMJV
1.2	For the temporary steel staircase at Bay 1a, CCMJV in principle had no objection to LJV installing a new steel staircase near the tunnel portal and CCMJV agreed they would timely inform LJV before the removal of the existing staircase built and maintained by CCMJV. CCMJV then reported that they intended to remove the existing staircase by 8 <sup>th</sup> Nov 2015. [Post Meeting Note (PMN): In the Ad-Hoc CC/C19 interface meeting dated 23 Nov 2015, CCMJV confirmed that removal of the existing staircase by CCMJV would take place on 28 Nov 2015 to facilitate installation of a new staircase by LJV on 29 Nov 2015.]	LJV and CCMJV

Item No.	Description	Action
1.3	<p>CCMJV had agreed to allow LJV to carry out lifting operation by temporary occupation of C19 site area at Bay 1 area. The detailed arrangement of lifting (i.e. time slot allowed for LJV to do the lifting at Bay 1 area) would be kept under review and agreed in ad hoc interface meeting chaired by RSS(I&amp;P).</p> <p>LJV requested CCMJV again to allow overnight parking of LJV's mobile crane at C19 site area wherever convenient to CCMJV as LJV had to mobilize the crane between Central (CC Site) and North Point (C19 Site) and the day-to-day lifting exercises was uneconomical and inefficient. CCMJV replied that CCMJV's insurance coverage did not cover third party plants, and as such LJV's mobile crane should not be parked overnight within C19 site area.</p>	<p>Noted</p> <p>Noted</p>
1.4	<p>For the welfare container of LJV, CCMJV had in good faith allowed LJV to temporarily house it near tunnel portal (i.e. Bay 1a), as requested by C19 RSS and allowed LJV to keep the welfare container at the aforementioned area until LJV get possession of ADB site area (Portion Xa of CC).</p>	<p>Noted</p>
1.5	<p>LJV and CCMJV agreed to provide Competent Person (CP) to conduct respective confined space risk assessment within Portion IXa (the tunnel and basement area handed over from C19 to CC on 27 Mar 2015).</p>	<p>Noted</p>
2.0	<p><b>Tunnel</b></p>	
2.1	<p>All parties agreed that outstanding works had been completed.</p> <p>Defect rectification works were still ongoing. CCMJV clarified that all these defect rectification works would be completed by end Nov 2015.</p> <p>The tunnel level defect list was being commented and would be agreed by 4 parties<sup>1</sup> shortly.</p>	<p>Noted</p> <p>CCMJV</p> <p>4 Parties</p>
2.2	<p>For the blocked crossroad duct inside the tunnel, CCMJV reported that they had cleared the 150mm crossroad ducts (80 no. in total) but 3 of the crossroad ducts remained blocked after several rounds of cleaning. CCMJV admitted that no further rectification works could be carried out. CCMJV was required to highlight the blocked cable ducts on the drawing and attach it to the meeting minutes. [PMN: CCMJV provided the layout plan (Annex A) showing the aforementioned blocked crossroad duct locations. RSS(CC) and LJV was now reviewing the impact of these blockages]</p>	<p>CCMJV</p> <p>RSS(CC) and LJV</p>
2.3	<p>Regarding rectification of the defective works of Over Head Vent Duct (OHVD), LJV advised CCMJV the access allowance arrangement to different OHVD sections.</p> <p>RSS(CC) reminded LJV that, as the tunnel had already been possessed by LJV, LJV had the responsibility to implement necessary access and safety measures for RSS(CC) to carry out routine inspections.</p>	<p>Noted</p> <p>LJV</p>

<sup>1</sup> '4 parties' means RSS(C19), RSS(CC), CCMJV and LJV.

3.0	<b>EVB – APS Basement 2 under Portion IXa of CC</b>	
3.1	<p>4-Party joint site inspection at APS basement had been carried out on 19 Oct 2015. 4-Party joint survey (initial survey of CC) was also completed on 18 Sep 2015. Remaining outstanding works and defect rectification works were still ongoing.</p> <p>CCMJV reported that they would remove the drainage pump as CCMJV believed major defect rectification works within APS had been completed. CCMJV reminded LJV to timely install their temporary services (e.g. lighting and ventilation system).</p> <p>The APS basement defect list was under review by RSS(C19). [PMN: Comments on APS defect list was given by RSS(C19) to RSS(CC) on 23 Nov 2015.]</p>	<p>CCMJV</p> <p>LJV</p> <p>4 Parties</p>
3.2	<p>LJV requested CCMJV to advise the time slot for LJV to lift their construction materials to APS basement level. However, CCMJV reported that such lifting operation would seriously affect CCMJV's EVB substructure construction works as relocation of CCMJV's crane would be required for the proposed lifting point. CCMJV counter proposed to LJV to consider borrowing their crane for the aforementioned lifting operation. LJV replied that such proposal would not be acceptable due to both their in-house safety policy and insurance coverage matter.</p> <p>All interface parties agreed to further discuss this item in the coming ad hoc interface meeting between Contract CC/C19. [PMN: In the ad hoc interface workshop held on 23 Nov 2015, CC Contract agreed to advise CCMJV through RSS the time slot for unloading the materials into APS level through one of the permanent openings. CCMJV was also reminded to cater for the access arrangement required by CC Contract for unloading materials inside APS and to make allowance for the means of evacuation during emergency in the method statement for construction of the EVA connection.]</p> <p>Apart from the lifting crane arrangement, RSS(C19) reminded CCMJV to keep at least 1 out of the 3 permanent openings available for LJV's lifting activities to APS basement and to liaise with LJV directly on the lifting schedule, just like the coordination for the lifting at Bay 1 area.</p>	<p>Noted</p> <p>4 Parties</p> <p>CCMJV/LJV</p>
4.0	<b>ADB – Portion Xa and Xb of CC</b>	
4.1	CCMJV had confirmed the layout for temporary noise barrier to be erected within ADB area. These noise barriers would be in place until all civil works under C19 was completed.	Noted
5.0	<b>IEC Bridge and Approach Ramp to Tunnel – Area B of CC</b>	
5.1	As informed by RSS(I&P), reconstruction of westbound bridge and central median construction for the westbound bridge (i.e. Area B of CC) would commence in early 2016. LJV was reminded to schedule the TCSS and Low Voltage (LV) installation works in conjunction with C19's central median construction with CCMJV. This item would be kept under review in the coming meetings.	Keep in view
5.2	CCMJV reported that they would assemble and erect the launching girder (LGB) near pier 29 to 31 at ADB area of Portion Xa between mid Dec 2015	Noted



	and mid Jan 2016. A proposal was tabled and passed to LJV for their consideration. A joint site inspection was also arranged on 6 Nov 2015.	
6.0	A.O.B.	
6.1	LJV reported that they had submitted the proposed ducting layout for Approach Ramp and noise enclosure area (Area B of CC) to RSS(CC) for review. RSS(CC) had issued comments on the layout to LJV for revision.	LJV
6.2	LJV requested CCMJV to provide advanced notification if CCMJV would carry out works in LJV's site area because LJV had to arrange overtime-work (i.e. works not within normal site working hour Monday – Saturday 8:00am – 6:00pm) for their site staff for the site security and management system.	CCMJV/LJ V
6.3	Since traffic signs and TCSS devices would be mounted to some gantries constructed under C19 and CC had to know the details of these structures so as to take these into account for their design of the mounting details, RSS(C19) agreed to issue the latest drawings to LJV via RSS(CC) for information once CCMJV had finalized the design.	RSS(C19)
6.4	The meeting was adjourned at 18:00.	Noted
6.5	Next meeting was scheduled at 16:00 on 3 Dec 2015 in PRE Office in Causeway Bay. [PMN: the next meeting was rescheduled to 1 Dec 2015 at 16:00 in PRE office]	Noted

## Malcolm H.P. Leung

---

**From:** Wong Kam Keung, Eric [REDACTED]  
**Sent:** Saturday, 18 June 2016 10:19 AM  
**To:** Malcolm H.P. Leung  
**Cc:** nicholas.wu [REDACTED]; Christy HL. So; Choi Ming Kei Jacky, RE(S&E), IECL Office; 'Wu Siu Hin Nicholas, ARE(C)-D14'  
**Subject:** RE: Construction Noise Management Plan (Rev. 4A)  
**Attachments:** Location Plan of Temporary Noise Barrier (Extracted from C19 NMP).pdf

Dear Malcolm,

Please find the approved layout plan of C19 temporary noise barrier as extracted from C19's NMP for your reference.

The temporary noise barrier will be maintained during the construction of C19's Approach Ramp Structure, which is scheduled for completion in end 2017.

Regards,

Eric Wong  
SRE(S&E)  
AECOM, CWB  
Tel. [REDACTED]

---

**From:** Malcolm H.P. Leung [REDACTED]  
**Sent:** Wednesday, June 15, 2016 1:58 PM  
**To:** Wong Kam Keung, Eric  
**Cc:** nicholas.wu [REDACTED]; Christy HL. So  
**Subject:** RE: Construction Noise Management Plan (Rev. 4A)

Dear Eric,

Further to the ET's comment below, please check with C19 whether they could provide

1. The tentative construction programme from C19
2. The latest layout plan of C19 noise barrier

Regards,  
Malcolm



## Appendix 4B      QPME Mobile Crane

**Construction Noise Management Plan**

PME Type: Mobile Crane  
Manufacturer/Model: LIEBHERR LTM 1100-4.2



## Construction Noise Management Plan

2015/11/19

QPME Label

類別 Type	Crane, mobile
製造商 / 牌子 Manufacturer / Trade Name	LIEBHERR
型號 Model	LTM 1100-4.2
生產日期(月/年) Date of Manufacture of equipment(m/y)	01/2013
編號 Serial Number	064029
聲功率級 Sound Power Level	<b>105</b> 分貝(A) dB(A)
識別號碼 QPME ID Code	EPD-03179
本標籤簽發日期(日/月/年) Date of Issue (d/m/y) of this Label	11/11/2015
本標籤屆滿日期(月/年) Expiry Date (m/y) of this Label	11/2019

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## Construction Noise Management Plan

2015/11/19

QPME Label

類別 Type	Crane, mobile
製造商 / 牌子 Manufacturer / Trade Name	LIEBHERR
型號 Model	LTM 1100-4.2
生產日期(月/年) Date of Manufacture of equipment(m/y)	01/2015
編號 Serial Number	064093
聲功率級 Sound Power Level	<b>105</b> 分貝(A) dB(A)
識別號碼 QPME ID Code	EPD-03180
本標籤簽發日期(日/月/年) Date of Issue (d/m/y) of this Label	11/11/2015
本標籤屆滿日期(月/年) Expiry Date (m/y) of this Label	11/2021

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