

Build King – SKEC Joint Venture

Central Kowloon Route Contract HY/2014/20

Yau Ma Tei West Section

Construction Noise Mitigation Measures Plan

Rev. D

Certified by: 

Position: Environmental Team Leader

Date: 3 July 2019

Contents

| | | |
|------------|---|----|
| 1.0 | Background..... | 3 |
| 1.1 | Project Description | 3 |
| 1.2 | Requirements for Construction Noise Mitigation Measure Plan (CNMMP)..... | 4 |
| 2.0 | Description of Construction Works in the Study Area | 6 |
| 2.1 | Noise Sensitive Receivers | 6 |
| 2.2 | Construction Methodology..... | 7 |
| 2.3 | Updated Preliminary Construction Programme | 7 |
| 2.4 | Updated Powered Mechanical Equipment List..... | 7 |
| 3.0 | Noise Assessment and Proposed Mitigation Measures..... | 11 |
| 3.1 | Assessment Methodology and Assumptions..... | 11 |
| 3.2 | Proposed Mitigation Strategy and Noise Assessment Results..... | 12 |
| 4.0 | Conclusion | 15 |

List of Appendices

- Appendix A Site Layout and Representative NSR Locations
- Appendix B Updated Preliminary Construction Programme
- Appendix C Detailed Construction Noise Assessment
- Appendix D Updated Construction Methodology and PME
- Appendix E Details of Acoustic Noise Barriers
- Appendix F Distance between Representative NSRs and worksite

PART A GENERAL

1.0 Background

1.1 Project Description

Central Kowloon Route (CKR) was proposed in the West Kowloon Reclamation Transport Study that a route in tunnel should be developed to link the West Kowloon Highway since 1990.

Highways Department (HyD) commissioned the Design and Construction Assignment for the Central Kowloon Route in June 1998. CKR is a dual 3-lane trunk road across central Kowloon linking the West Kowloon in the west and the proposed Kai Tak Development (KTD) in the east. The CKR will be about 4.7km long with an underground tunnel section of about 3.9km long, in particular, there will be an underwater tunnel of about 370m long in Kowloon Bay to the north of the To Kwa Wan Typhoon Shelter. It will connect the West Kowloon Highway at Yau Ma Tei Interchange with the road network at Kowloon Bay and the future Trunk Road T2 at KTD which will connect to the future Tseung Kwan O – Lam Tin Tunnel (TKO-LTT) and Cross Bay Link (CBL). CKR, Trunk Road T2 and TKO-LTT will form a strategic highway link, namely Route 6, connecting West Kowloon and Tseung Kwan O. Consultancy studies for Trunk Road T2, TKO-LTT and CBL have been commissioned by CEDD. In addition, 3 ventilation buildings, which will be located in Yau Ma Tei, Ho Man Tin and ex-Kai Tak airport area, are proposed to ensure acceptable air quality within the tunnel.

The Central Kowloon Route – Design and Construction Environmental Impact Assessment Report (Register No.: AEIAR-171/2013) was approved with conditions by the Environmental Protection Department (EPD) on 11 July 2013. An Environmental Permit (EP-457/2013) was issued on 9 August 2013. Variations of EP (VEP) was subsequently applied for and the latest EP (EP-457/2013/C) was issued by EPD on 16 January 2017.

Build King - SKEC Joint Venture (BKSJV) was commissioned by Highways Department as the appointed main contractor for Contract No. HY/2014/20: Central Kowloon Route – Yau Ma Tei West (YMTW).

The Works to be executed under this Contract included, but not exclusively, the following items:

- Construction of an approximately 250m long Depressed Road at the western tunnel portal of CKR;
- Construction of a Landscaped Deck structure above the western tunnel portal and Hoi Wang Road, including the associated civil engineering provisions and coordination with CKR-RMW contractor in respect of the remaining works for the Landscaped Deck;
- Construction of an underground Ventilation Adit connecting the tunnel ventilation system with the Yau Ma Tei Ventilation Building;
- Construction of approach roads and slip roads, including bridges and other associated structures, connecting CKR with the existing road networks;
- Construction of the realigned and regraded Hoi Wang Road and the associated bridges to West Kowloon Highway and Lin Cheung Road
- Diversion of a section of existing drainage box culvert of approximately 215m in length;
- Design and construction of the noise mitigation measures at Slip Roads A, C2, D, E, G, Hoi Wang Road, Lai Cheung Road and Lin Cheung Road;
- Design and construction of Smoke Ventilation System including Smoke Ventilator System, Linear Heat Detection System, Pneumatic Air Supply System, the associated plant rooms, control system and power supply system for part of the Landscaped Deck;
- Design and construction of the facade system of the Landscaped Deck;
- Design and construction of lifts at the Landscaped Deck;
- Associated roadworks, footpath, drainage, sewerage, watermains, street lighting, traffic aids, landscaping, electrical and mechanical works, instrument monitoring works and utility diversion works;
- Construction of civil engineering provisions and coordination with future tunnel E&M and TCSS contractor for installation of tunnel E&M and TCSS equipment.
- Implementation of all necessary Environmental Monitoring and Audit (EM&A) measures as required under relevant environmental permit;

A Site Layout showing the site boundary is shown in **Appendix A**.

1.2 Requirements for Construction Noise Mitigation Measure Plan (CNMMP)

According to the condition 2.9 of the EP-457/2013/C, the Permit Holder shall, no later than one month before the commencement of construction of the Project, submit to the Director of Environmental Protection (DEP) for approval four hard copies and one electronic copies of an update Construction Noise Mitigation Measure Plan (CNMMP) to further reduce the air-borne construction noise impacts on Yau Ma Tei Catholic Primary School (Hoi Wang Road), Tak Cheong Building,

Prosperous Garden Block 1, The Coronation Tower 1, Ko Fai House of Kwun Fat Court, Grand Waterfront Tower 3 and Hang Chien Court Block J. In view of the worksites location under this contract and their respective distance to the above NSRs (300 meters study area according to the EIA methodology), predicted noise impact on Yau Ma Tei Catholic Primary School (Hoi Wang Road), Prosperous Garden Block 1 and The Coronation Tower 1 are studied in this CNMMP, while that of Tak Cheong Building, Ko Fai House of Kwun Fat Court, Grand Waterfront Tower 3 and Hang Chien Court Block J would be assessed in other Sections of the Central Kowloon Route according to their worksites location.

The CNMMP shall include:

- A schedule of construction works to be carried out at the works areas of the Project within 300m from the Noise Sensitive Receivers (NSRs);
- An updated construction methodology of the construction works;
- An updated powered mechanical equipment (PME) list for the proposed construction works;
- An updated proposal of air-borne construction noise mitigation measures for the Noise Sensitive Receivers as mentioned above, including the provision of noise barriers, enclosures;
- Other initiatives proposed by the Permit Holder; and
- An updated prediction of noise levels in accordance with the above updated information and mitigation proposals in place.

Before submission to the Director, the CNMMP shall be certified by the ET and verified by the IEC as conforming to the relevant information and recommendations contained in the EIA Report (Register No. AEIAR-171/2013).

2.0 Description of Construction Works in the Study Area

2.1 Noise Sensitive Receivers

According to EP No. FEP-01/457/2013/C for CKR – Yau Ma Tei West, CNMMP is required for three representative NSRs, Yau Ma Tei Catholic Primary School (Hoi Wang Road), Prosperous Garden Block 1 and The Coronation Tower 1. Locations of these three NSRs are shown in **Appendix A**. Details of the NSRs with the predicted noise results in the Approved CKR EIA Report are presented in **Table 2.1**.

Table 2.1 Summary of Predicted Noise Levels in the Approved CKR EIA Report

| NSRID | NSR Description | Use ^[1] | Criterion, dB(A) ^[2] | Maximum Construction Noise Levels, dB(A) | | Noise exceedance, dB(A) |
|--------|--|--------------------|------------------------------------|---|-----------|-------------------------------|
| | | | | Unmitigated | Mitigated | |
| W-N1A | Yau Ma Tei Catholic Primary School (Hoi Wang Road) | E | 70(65) | 82 | 70 (69) | - (4) |
| W-N25A | Prosperous Garden Block 1 | R | 75 | 93 | 81 | 6 |
| W-P11 | The Coronation (Tower 1) | R | 75 | 88 | 77 | 2 |

Notes:

[1] R- Residential; E- Educational Institution

[2] Values in parentheses indicate the noise criterion during examination period of educational institution

2.2 Construction Methodology

The proposed construction methodology is generally following that presented in Section 3.5 of the approved CKREIA Report (Register No. AEIAR-171/2013).

A breakdown of the major construction activities in sequence to be carried out within the contract are provided in **Appendix B**. Minor change of equipment and works sequence were made by the Contractor, where a list for specific works activities with updated construction practice and PME is presented in **Appendix D**.

2.3 Updated Preliminary Construction Programme

The updated preliminary construction programme prepared by BKSJV has been used in this CNMMP and has been presented on a monthly basis for the duration of the construction works in corresponding worksites.

Since the commencement of the project has been delayed for 3 years, the potential concurrent projects have been reviewed. Upon reviewing the concurrent projects close to YMTE, other than YMTE section under CKR itself, there are no additional potential concurrent projects which would have cumulative construction noise impacts on the NSRs during the construction phase. The concurrent effect on noise impact contributed by YMTE section, which included the construction of two noise enclosures at Gascoigne Road Flyover, is also considered.

The construction schedule has been adjusted such that to minimize concurrent construction works to be carried out in the vicinity as far as practicable. The updated preliminary construction programme is provided in **Appendix B**.

2.4 Updated Powered Mechanical Equipment List

The noise mitigation measures proposed in the Approved CKR EIA Report have been considered and reviewed in this CNMMP, including use of quiet PME as summarised in **Table 2.2**. The Sound Power Levels (SWL) for the PMEs have been adopted from EPD's Technical Memorandum on Noise from Construction Work Other than Percussive Piling (GW-TM), list of SWLs of other commonly used PME or British Standard 5228 - Part 1:2009 Code of Practice for Noise and

Vibration Control on Construction and Open Sites. The PMEs to be adopted for individual construction activities for this contract with the respective use of movable barriers/acoustic sheet barriers are provided in **Appendix C**.

Taking into account the latest construction programme and PME inventory provided by the Contractor, extra quiet PME for dump truck, roller, vibratory, and spliter are proposed, in addition to the quiet PME proposed in the Approved CKR EIA Report. The quiet PME reference and SWL for road roller are updated as well. The quiet PME as listed in **Table 2.2** could be found in Hong Kong. However, if the exact model specified in the references of the listed quiet PME are not available during the construction period, the model with SWL not higher than the listed SWL shall be adopted.

Table 2.2: List of Updated Powered Mechanical Equipment (PME)

| PME Description | TM Ref./ Other Ref. ^(a)/ BS 5228 Ref. ^(b)/ QPME ID Code ^(c) | Unit Sound Power Level, SWL dB(A) |
|---|---|--|
| Asphalt Paver | EPD-01226 | 104 |
| Bar Bender and Cutter | CNP021 | 90 |
| Bored Piling Crane mounted auger | BS D4-37 | 111 |
| Breaker, Excavator Mounted (Hydraulic) | BS D8-13 | 110 |
| Concrete Lorry Mixer | CNP044 | 109 |
| Concrete pump | CNP047 | 109 |
| Crane Mobile | EPD-07994 | 101 |
| Dump Truck with Grab | CNP069 | 105 |
| Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 |
| Generator | EPD-07338 | 95 |
| Grout mixer | CNP105 | 90 |
| Lorry | CNP142 | 105 |
| Piling, Diaphragm Wall, Bentonite Filtering Plant | CNP162 | 105 |
| Poker, Vibratory, Hand Held | CNP173 | 102 |
| Road Roller | EPD-01183 | 97 |
| Saw, Circular Wood | BS D7-79 | 103 |
| Saw, Wire | CNP205 | 101 |
| Tracked crane | BS D7-114 | 101 |
| Ventilation Fan | CNP241 | 108 |
| Water Pump, Submersible (Electric) | CNP283 | 85 |

Note:

(a) Other references refer to the approved West Island Line EIA Report/South Island Line (East) EIA Report/SWLs of other commonly used PME provided in the document prepared by the Noise Control Authority
[\(\[http://www.epd.gov.hk/epd/english/application_for_licences/guidance/file_s/OtherSWLe.pdf\]\(http://www.epd.gov.hk/epd/english/application_for_licences/guidance/file_s/OtherSWLe.pdf\)\)](http://www.epd.gov.hk/epd/english/application_for_licences/guidance/file_s/OtherSWLe.pdf)

(b) BS 5228 Ref. refers to British Standard 5228 - Part 1:2009 Code of Practice for Noise and Vibration Control on Construction and Open Sites

(c) QPME ID Code refer to Quiet Powered Mechanical Equipment from EPD's website

http://www.epd.gov.hk/cgi-bin/npg/qpme/search_gen.pl?lang=eng

3.0 Noise Assessment and Proposed Mitigation Measures

3.1 Assessment Methodology and Assumptions

The construction noise assessment has been carried out in accordance with the methodology used in the approved CKR EIA Report (Register No. AEIAR-171/2013). Notional source distances adopted in the calculation has made reference to those used in the CKR EIA Report (Register No. AEIAR-171/2013) and according to the updated construction layout as provided in **Appendix A**.

The percentage on-time for each PME has been estimated individually for each construction activity to ensure practicality and is consistent with assumptions made in CKR EIA Report (Register No. AEIAR-171/2013).

The BKSJV has confirmed that the programme and plant inventory are reasonable and practicable for completing the Works Contract within the scheduled timeframe.

All mitigation measures and their effectiveness proposed in the CKR EIA Report (Register No. AEIAR-171/2013) including the use of temporary movable noise barrier and enclosure (with sufficient ventilation) for relatively static plant, acoustic mat and quiet plant have been considered in this CNMMP.

All mitigation measures proposed in the EIA Report were considered, including the use of temporary movable noise barrier, acoustic mat and quiet plant, with their effectiveness on the noise assessment result at the representative NSRs summarized in Table 3.1. The use of quiet plant associated with construction work is prescribed in British Standard "Code of practice for noise and vibration control on construction and open sites, BS5228" which contains the SWLs for specific quiet PME.

To predict the noise level, PME items has been divided into groups for each discrete construction task. The objective is to identify the worst case scenario representing those items of PME that would be in use concurrently at any given time. The sound pressure level (SPL) of each construction task at the NSRs is calculated based on the number of plant and the notional distance from the noise assessment points. The notional distances of the works area to the representative NSRs are presented in **Appendix C**. If there are concurrent construction tasks, the noise levels at representative noise assessment points are predicted by adding up the SPLs of all concurrent construction tasks.

3.2 Proposed Mitigation Strategy and Noise Assessment Results

The mitigation measures proposed in the approved CKR EIA report (Register No. AEIAR-171/2013) have been adopted.

Movable temporary noise barriers that can be located close to noisy plant and be moved concurrently with the plant along a worksite can be very effective for screening noise from NSRs. A typical design which has been used locally is a wooden framed barrier with a small-cantilevered on a skid footing with 25mm thick internal sound absorptive lining. This measure is particularly effective for low level zone of NSRs. A cantilevered top cover would be required to achieve screening benefits at upper floors of NSRs. Movable barriers will be used for some PME (e.g. asphalt paver, excavator etc). It is anticipated that suitably designed barriers could achieve at least 5 - 10dB(A) reduction. For a conservative assessment, only a reduction of 5dB(A) is assumed. The use of enclosure (with sufficient ventilation and surface mass at least 10 kg/m²) and acoustic box (with sufficient ventilation and wooden framed barrier with 50mm thick internal sound absorptive lining) have been considered in this assessment to shelter relatively static plant including air compressor, generator. Contractor shall ensure the practicability to block the line-of-sight for nearby NSRs during the usage of noise barriers. The enclosures barriers and acoustic boxes can provide about 10dB(A) noise reduction. Materials and other different types of applicable acoustic noise barriers are shown in **Appendix E**.

Some plant items will operate sequentially within the same work site in order to minimise the noise impacts from the construction activities to the NSRs. The sequencing operation/grouping of PME as presented in **Appendix C** is confirmed to be practicable by the Engineer and the Contractor.

The predicted noise levels at identified NSRs after implementation of quiet plants, mitigation measures, including noise enclosure/shed, movable barriers and acoustic fabric, and sequencing operation/grouping of PME, as well as the cumulative effect from construction works from YMTE are shown in **Appendix C** and summarised in Table 3.1. The mitigation measures and noise control design will be implemented by the frontline staff of the Contractor, supervised by the Environmental Officer/Site Engineer and checked by the ET, IEC and RE during routine site inspection under the EM&A programme.

Site records, including photos and measurement reports, for substantiating proper implementation of the Plan shall be well kept by the Contractor on site for review/checking by ET/IEC/EPD at any time.

Table 3.1 Summary of Noise Assessment Result at Representative NSRs

| NSR ID | NSR Description | Predicted Max. Noise Level ^(a) , dB(A) (YMTW only) | Predicted Max. Communitive Noise Level ^(a) , dB(A) | Noise Criteria ^(b) , dB(A) | Exceedance, dB(A)) | Duration (month) of Exceedance ^(c) |
|--------|--|--|---|---------------------------------------|--------------------|---|
| W-N1A | Yau Ma Tei Catholic Primary School (Hoi Wang Road) | 67 (67) | 67 (67) | 70 (65) | - (2) | - (2) |
| W-N25A | Prosperous Garden Block 1 | 65 | 81 | 75 | 6 | 3 |
| W-P11 | The Coronation | 75 | 75 | 75 | - | - |

Note:

- (a) Bolded values mean exceedance of the relevant noise criteria.
- (b) Values in parentheses indicate the noise criterion during examination period of educational institution.
- (c) Typical examination period is in May, June, November and December. The exceedance duration is subject to the examination schedule when available.

With the implementation of the above-mentioned mitigation measures, residual impacts exceeding the construction noise criterion are still expected. The comparison of residual impacts between CKR EIA Report and this CNMMP for residential premises, educational institution during examination period and educational institution during normal period are shown in Table 3.2, Table 3.3 and Table 3.4 respectively.

Table 3.2 Comparison of Residual Impacts between CKR EIA Report and this CNMMP (Residential Premises)

| NSR | EIA Prediction | CNMMP Prediction |
|-----|----------------|------------------|
|-----|----------------|------------------|

| | Max. Noise Level, dB(A) | Duration (month) of Exceedance | | | | Max. Noise Level, dB(A) | Duration (month) of Exceedance | | | |
|--------|----------------------------------|--------------------------------|---------|---------|---------|----------------------------------|--------------------------------|---------|---------|---------|
| | | 1-4 dB(A) | 5 dB(A) | 6 dB(A) | 7 dB(A) | | 1-4 dB(A) | 5 dB(A) | 6 dB(A) | 7 dB(A) |
| W-N25A | 81 | 6 | - | 3 | - | 81 | - | - | 3 | - |
| W-P11 | 77 | 2 | - | - | - | 75 | - | - | - | - |

Table 3.3 Comparison of Residual Impacts between CKR EIA Report and this CNMMP (Educational Institution During Examination Period)

| NSR | EIA Prediction (during exam period) | | | | | | | | CNMMP Prediction (during exam period) | | | | | | | |
|-------|--------------------------------------|------------|------------|------------|------------|------------|------------|-------------|---------------------------------------|------------|------------|------------|------------|------------|------------|-------------|
| | Duration (month) of Exceedance | | | | | | | | Duration (month) of Exceedance | | | | | | | |
| | 1 dB(A) | 2 dB(A) | 3 dB(A) | 4 dB(A) | 5 dB(A) | 6 dB(A) | 7 dB(A) | ≥8 dB(A) | 1 dB(A) | 2 dB(A) | 3 dB(A) | 4 dB(A) | 5 dB(A) | 6 dB(A) | 7 dB(A) | ≥8 dB(A) |
| W-N1A | 2 | 3 | - | 1 | - | - | - | - | 2 | - | - | - | - | - | - | - |

Table 3.4 Comparison of Residual Impacts between CKR EIA Report and this CNMMP (Educational Institution During Normal Period)

| NSR | EIA Prediction (during normal period) | | | | | | | | CNMMP Prediction (during normal period) | | | | | | | |
|-------|--|------------|------------|------------|------------|------------|------------|-------------|---|------------|------------|------------|------------|------------|------------|------------|
| | Duration (month) of Exceedance | | | | | | | | Duration (month) of Exceedance | | | | | | | |
| | 1 dB(A) | 2 dB(A) | 3 dB(A) | 4 dB(A) | 5 dB(A) | 6 dB(A) | 7 dB(A) | ≥8 dB(A) | 1 dB(A) | 2 dB(A) | 3 dB(A) | 4 dB(A) | 5 dB(A) | 6 dB(A) | 7 dB(A) | 8 dB(A) |
| W-N1A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

When comparing with the predicted noise impact in the EIA study, the residual impacts predicted in this CNMMP would either remain unchanged or reduced in respect of both exceedances and duration with the implementation of mitigation measures proposed in this CNMMP. Number of months of Examination periods for Yau Ma Tei Catholic Primary School (Hoi Wang Road) predicted to exceed the criterion for school examination periods was reduced from 6 from EIA report to 2 from this CNMMP.

Specific measures will also be implemented for Yau Ma Tei Catholic Primary School (Hoi Wang Road). BKSJV will well plan the working programme for those work sites close to this NSR and try the best to shorten the working hours at weekdays or avoid to carry out noisy activities at sensitive hours (school lesson time, e.g. 8:00 – 18:00).

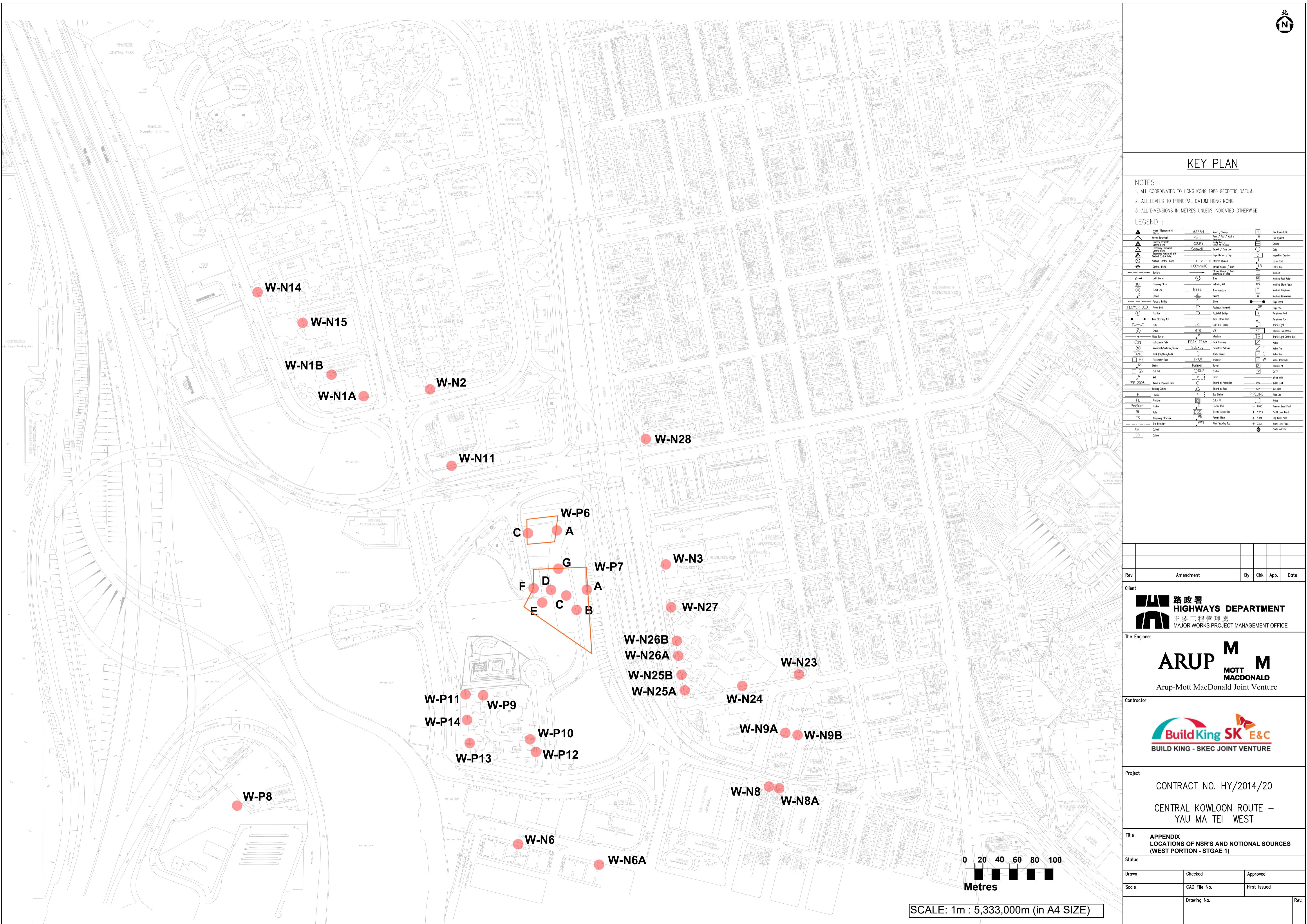
4.0 Conclusion

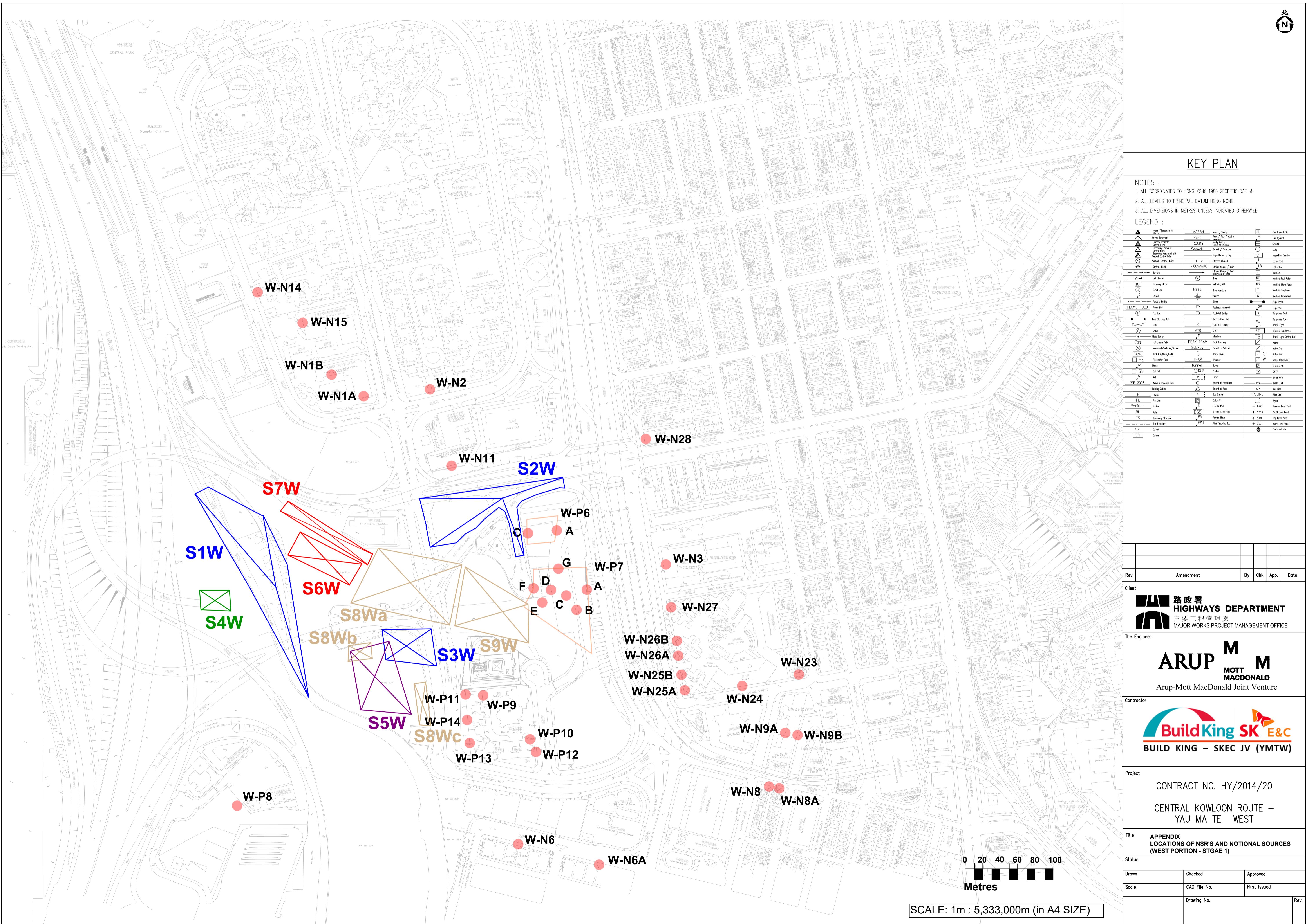
The CNMMP has predicted the construction noise impact from CKR-YMTW to identified representative NSRs according to the EIA report. This plan has taken into account the updated information on PMEs and works programme which would be adopted by BKSJV. With the implementation of mitigation measures in form of quiet plants, barrier and acoustic fabrics, the construction noise impact are predicted would either remain unchanged or to be reduced in respect of both exceedances and duration at the representative NSRs, implementing the similar relieved impacts to the rest of the NSRs as predicted from the EIA report.

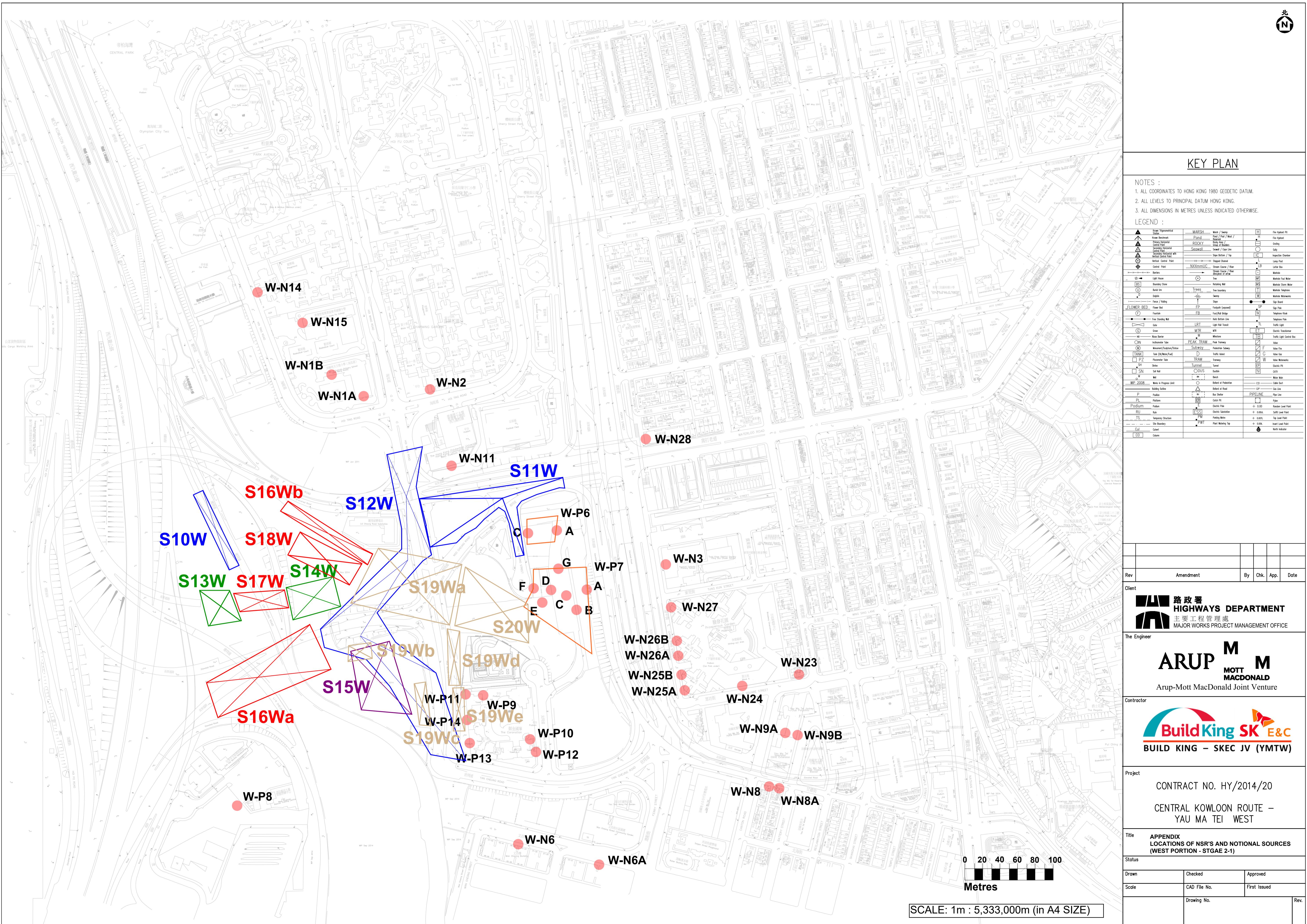
Further review and update will be performed during the construction phase; and liaison with affected parties is recommended to minimize the construction noise impacts as far as practicable. BKSJV will regularly review the NMM implemented (say every 6 months). Shall there be any major change to the project noise mitigation measures at the Yau Ma Tei West Contract, BKSJV will review and update the CNMMP accordingly.

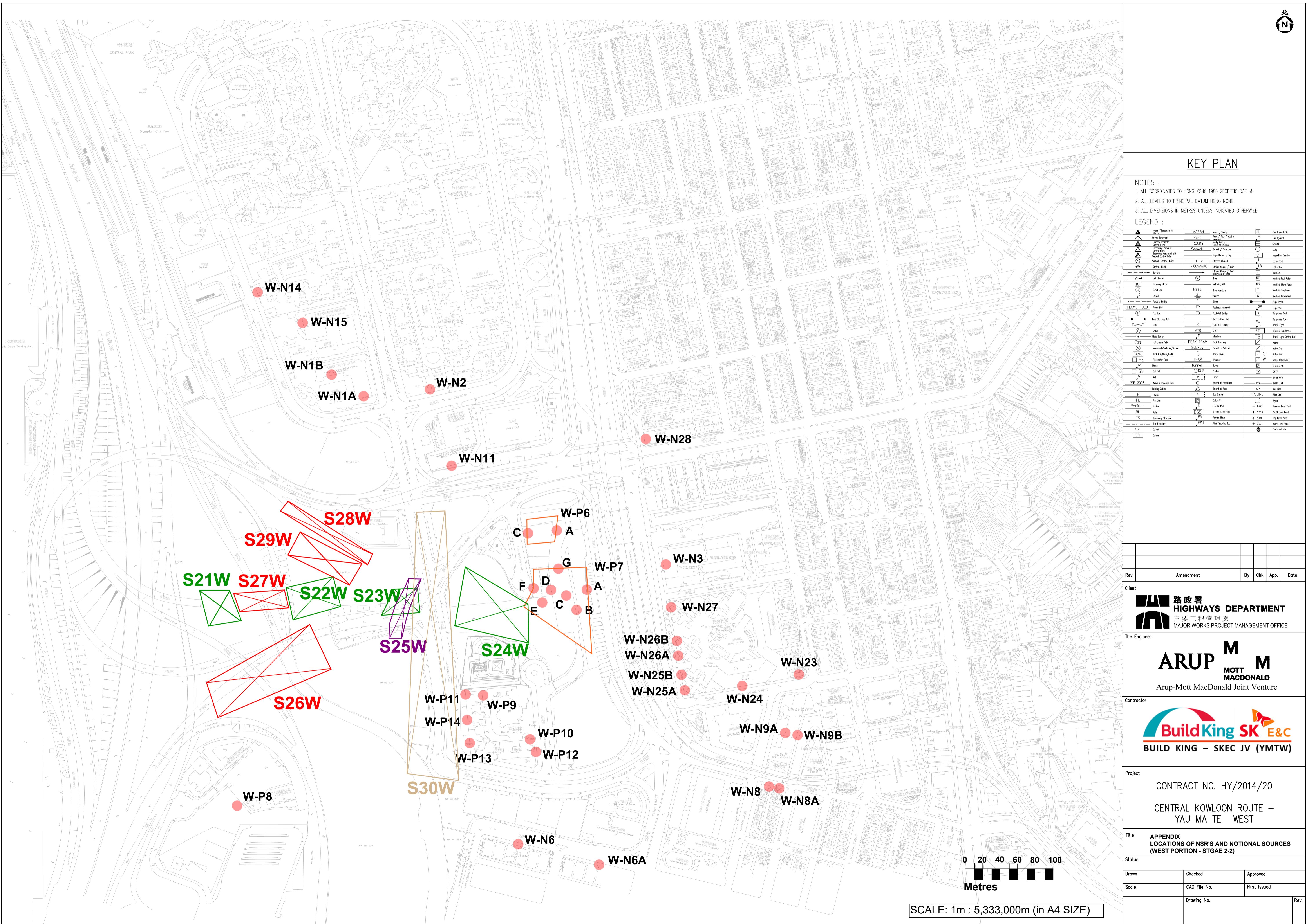
Appendix A

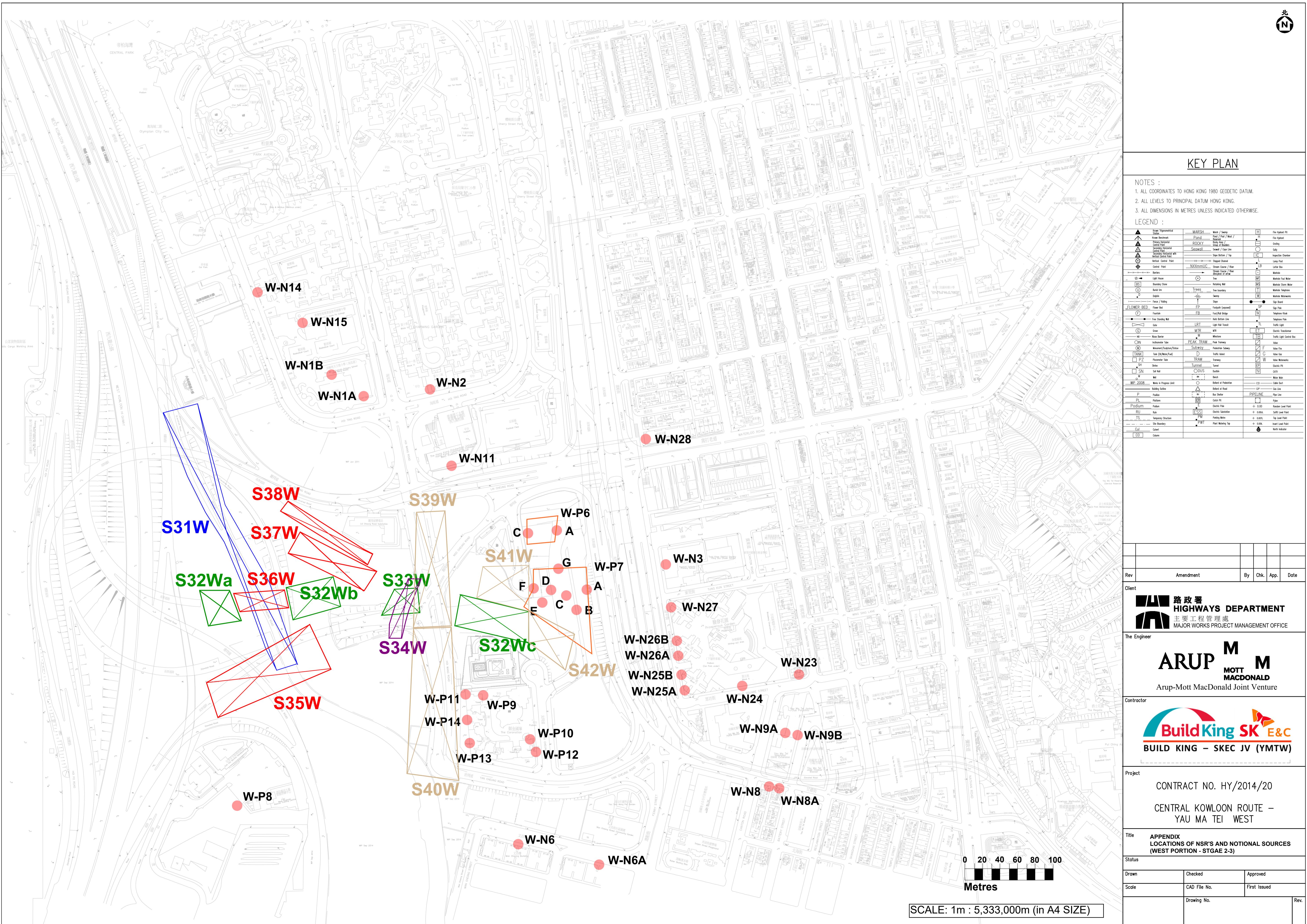
Site Layout and Representative NSR Locations

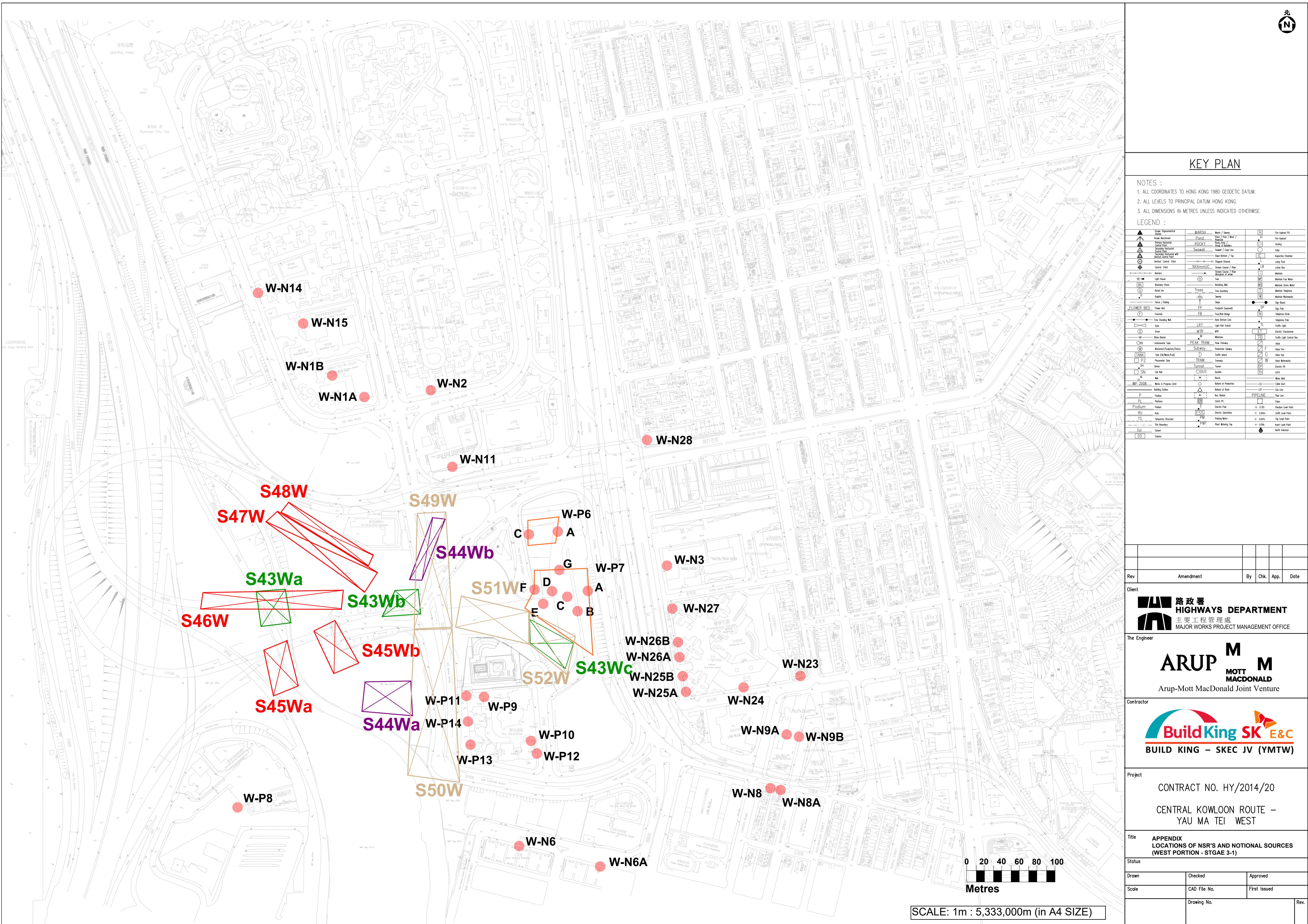


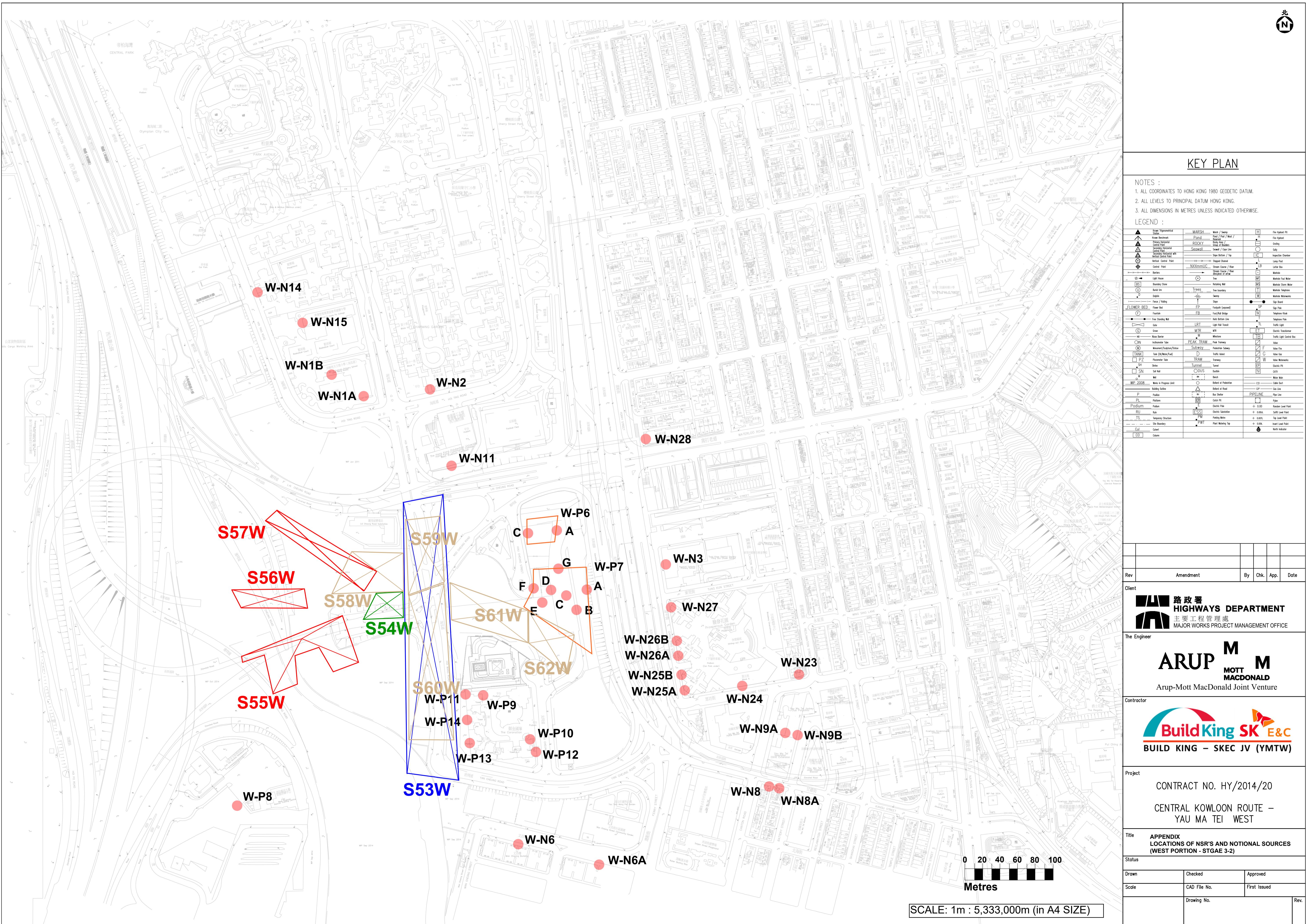


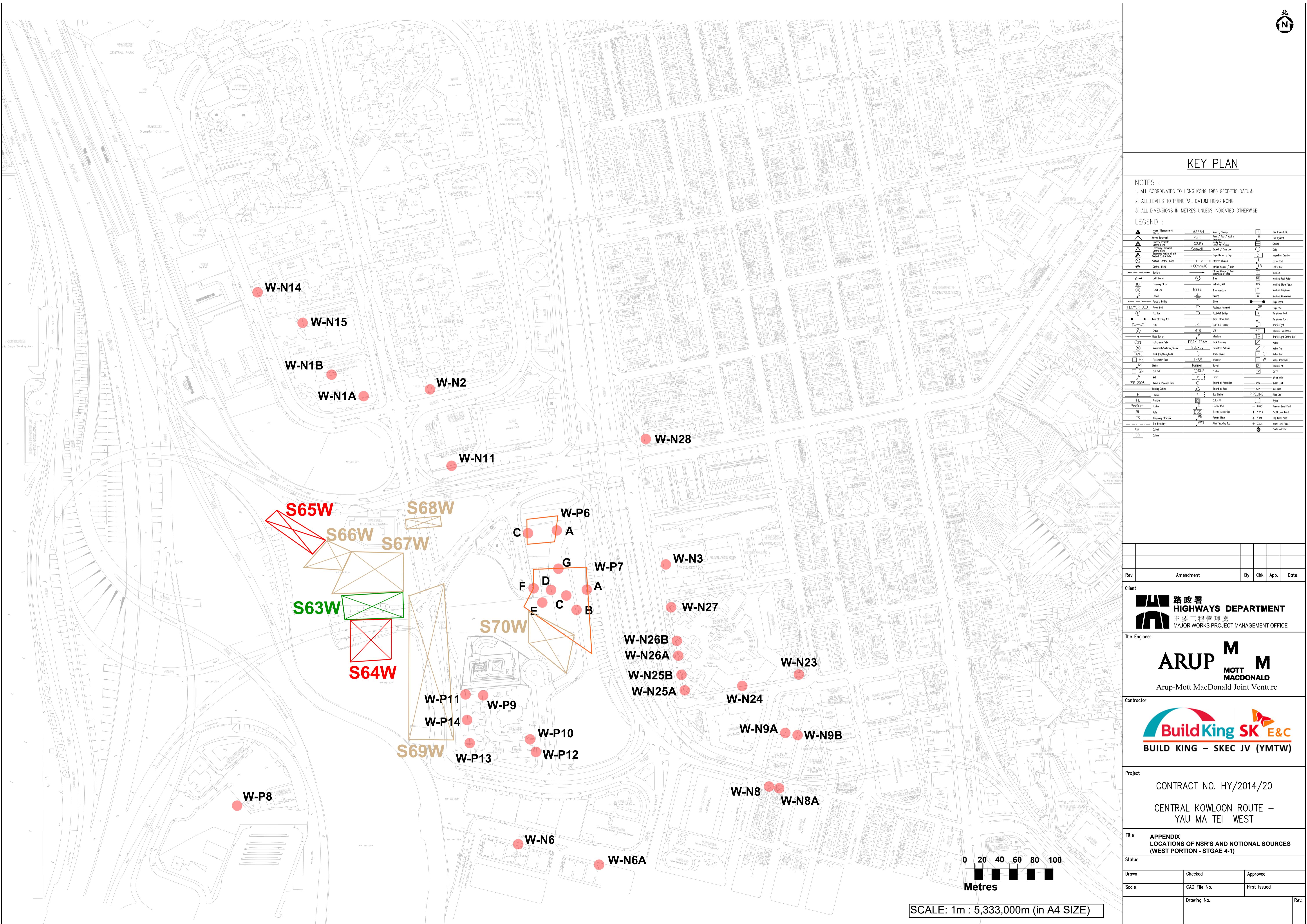














KEY PLAN

NOTES :
 1. ALL COORDINATES TO HONG KONG 1980 GEODETIC DATUM.
 2. ALL LEVELS TO PRINCIPAL DATUM HONG KONG.
 3. ALL DIMENSIONS IN METRES UNLESS INDICATED OTHERWISE.

LEGEND :

| | | |
|------------------------|---------|---------------------|
| Know Topographical | MARSH | Marsh / Swamp |
| Known Boundary | Pond | Pond / Pond / Mod / |
| Primary Boundary | ROCKY | Rocky Area / |
| Secondary Boundary | Sawall | Sawall / Cope Line |
| Third Boundary | Slope | Slope Bottom / Top |
| Vertical Control Point | NXXmmUC | Steep Channel |
| Survey Point | | |
| Barriers | | |
| BS | | |
| Boundary Stone | | |
| Burden | | |
| Double | | |
| Gate | | |
| Grove | | |
| High Water | | |
| Indication Line | | |
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| Outline | | |
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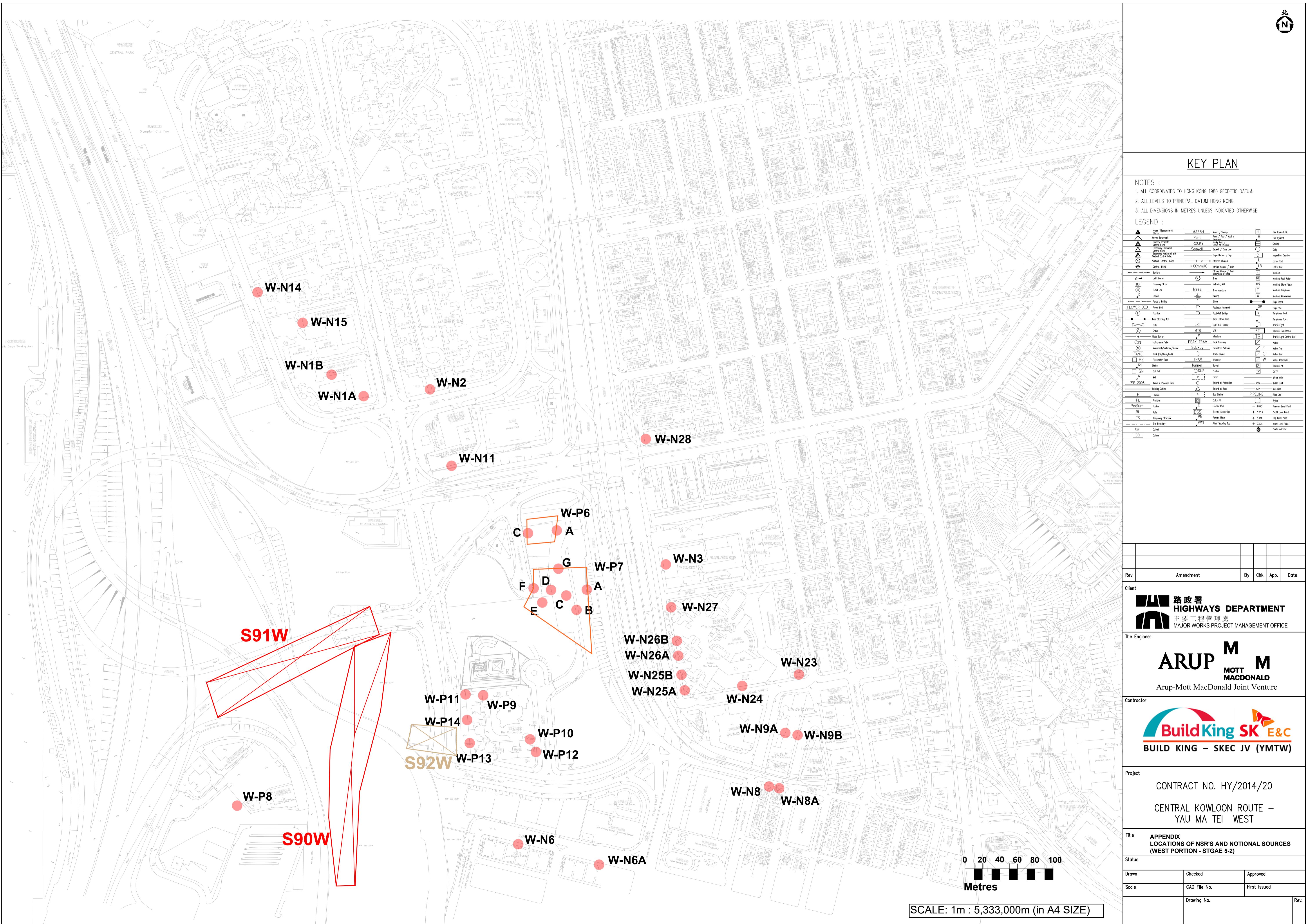


KEY PLAN

NOTES :
 1. ALL COORDINATES TO HONG KONG 1980 GEODETIC DATUM.
 2. ALL LEVELS TO PRINCIPAL DATUM HONG KONG.
 3. ALL DIMENSIONS IN METRES UNLESS INDICATED OTHERWISE.

LEGEND :

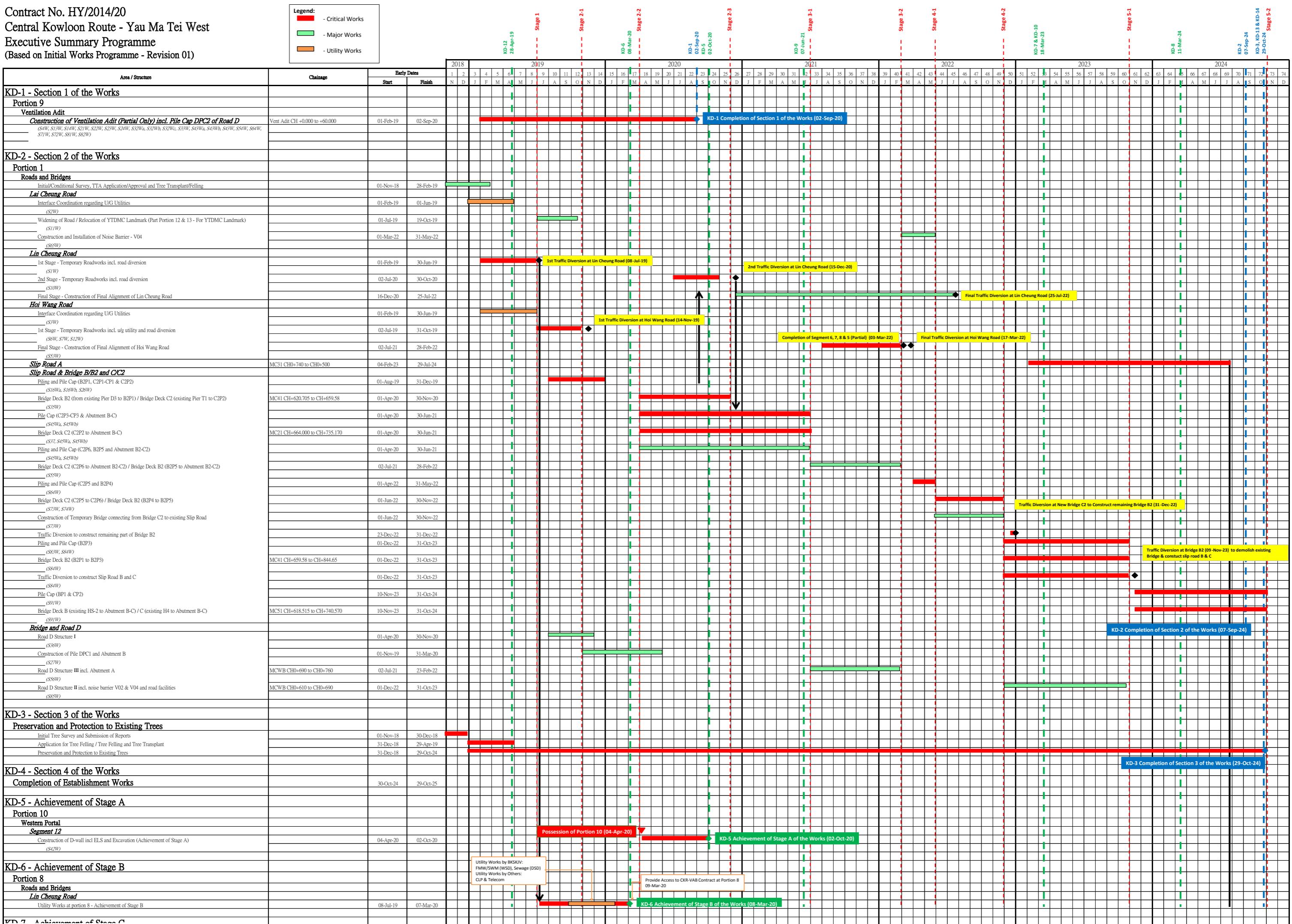
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|------------------------------|-----------------------|---------------------|
| Know Topographical | MARSH | Marsh / Swamp |
| Known Boundary | Pond | Pond / Pond / Mod / |
| Primary Boundary | Rocky Area / | Gravel |
| Secondary Boundary | Savanna | Sandy |
| Service Boundary | Soil / Clay Line | Soil |
| Vertical Control Point | Slope Bottom / Top | Slope |
| Point | NXXmmUC | Inspection Chamber |
| Barriers | Steep Chasm / | B |
| BS | Shallow Cours / River | Bank |
| Boundary Stone | Shallow Cours / River | Bank |
| Boundary Tree | Shallow Cours / River | Bank |
| Double | Shallow Cours / River | Bank |
| Grove | Shallow Cours / River | Bank |
| High Wall | Shallow Cours / River | Bank |
| No Barrier | Shallow Cours / River | Bank |
| ON | Shallow Cours / River | Bank |
| Indication Take | Shallow Cours / River | Bank |
| MOVEMENT / SCHEDULE / STATUS | LRT | Light Rail Train |
| TANK | MTR | MTR |
| SW | PEAK TRAM | Peak Tram |
| WIP | Subway | Pedestrian Subway |
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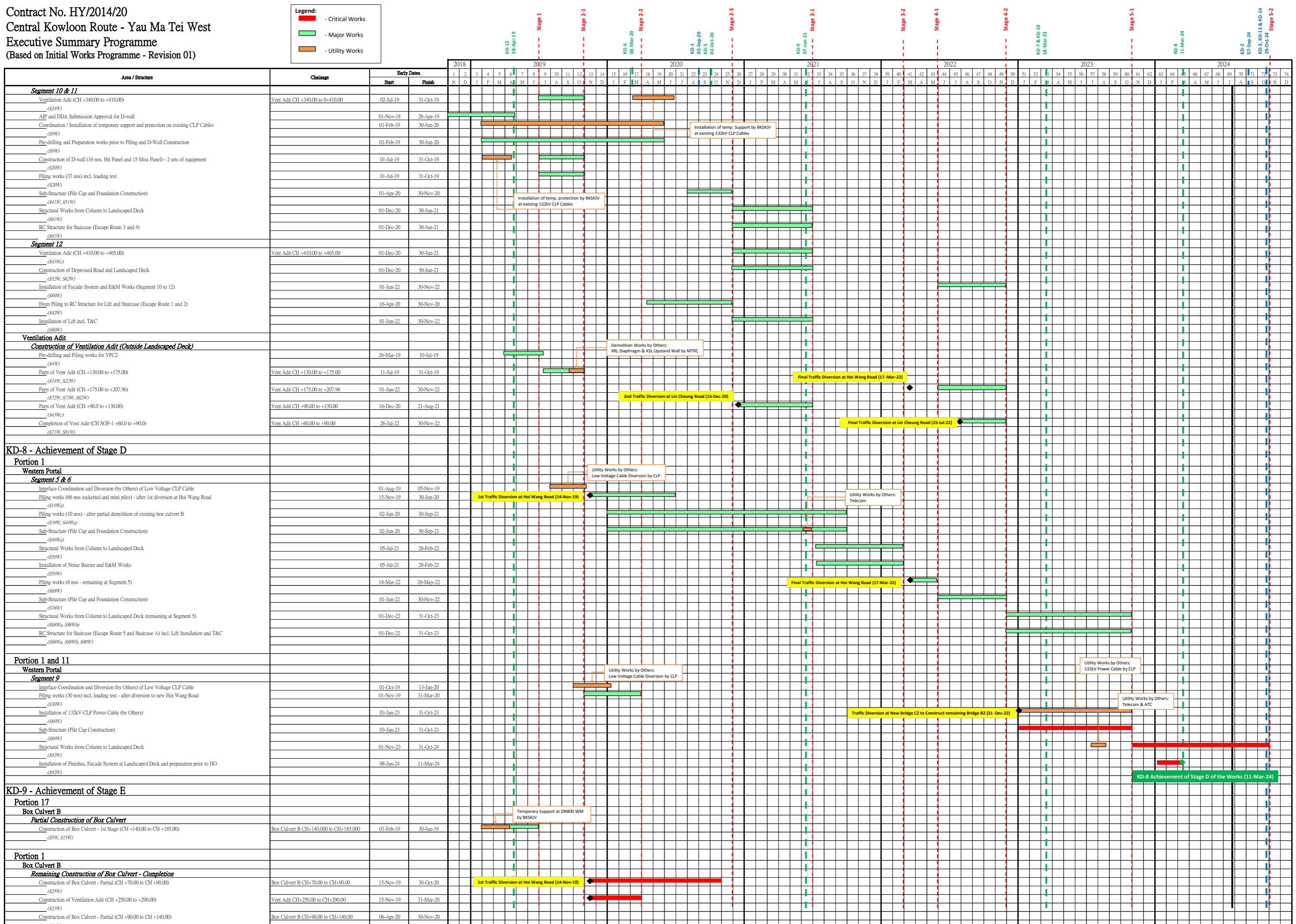
Appendix B

Updated Preliminary Construction Programme

Contract No. HY/2014/20
Central Kowloon Route - Yau Ma Tei West
Executive Summary Programme
(Based on Initial Works Programme - Revision 01)



Contract No. HY/2014/20
Central Kowloon Route - Yau Ma Tei West
Executive Summary Programme
(Based on Initial Works Programme - Revision 01)



Appendix C

Detailed Construction Noise Assessment

Build King - SKEC Joint Venture

Construction Noise Assessment

Period: 0700 to 1900 (except general holidays)

Noise Sensitive Receiver: W-N1A Yau Ma Tei Catholic Primary School (Hoi Wang Road)

Noise Criteria: 70 (65)

Mitigation Measures Scenario

| Worksite | Activity | Period | PME | TM Ref. / | Unit Quiet | On-time, | Time | Quiet Plant | No. of | Total SWL | Distance | Distance | Façade | Barrier | Predicted | Total Predicted |
|-----------------|--|---------------------|---|-----------|------------|----------|------|-------------|--------|-----------|----------|----------|--------|---------|-----------|-----------------|
| S1W | Construction of Temporary Drainage Works | Feb 2019 - Jun 2019 | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 245 | -56 | 3 | -5 | 52 | 54 |
| | | | Dump Truck with Grab | CNP069 | 105 | 50 | -3 | 102 | 1 | 102 | 245 | -56 | 3 | -5 | 44 | |
| | | | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 1 | 93 | 245 | -56 | 3 | -10 | 30 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 50 | -3 | 99 | 1 | 99 | 245 | -56 | 3 | -5 | 41 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 60 | -2 | 97 | 2 | 100 | 245 | -56 | 3 | -5 | 42 | |
| | | | Crane Lorry | BS D7-114 | 101 | 50 | -3 | 98 | 1 | 98 | 245 | -56 | 3 | -5 | 40 | |
| | Construction of Temporary Road Subbase, Roadbase and Surfacing | Feb 2019 - Jun 2019 | Concrete pump | CNP047 | 109 | 70 | -2 | 107 | 1 | 107 | 245 | -56 | 3 | -10 | 45 | 50 |
| | | | Asphalt Paver | EPD-01226 | 104 | 70 | -2 | 102 | 1 | 102 | 245 | -56 | 3 | -5 | 45 | |
| | | | Dump Truck with Grab | CNP069 | 105 | 60 | -2 | 103 | 2 | 106 | 245 | -56 | 3 | -5 | 48 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 3 | 98 | 245 | -56 | 3 | -10 | 35 | |
| S2W | Construction of Temporary Road Subbase, Roadbase and Surfacing | Feb 2019 - Jun 2019 | Road Roller | EPD-01183 | 97 | 50 | -3 | 94 | 2 | 97 | 245 | -56 | 3 | -5 | 39 | 50 |
| S6W | Pre-drilling works at Box Structure E | May 2019 - Aug 2019 | Asphalt Paver | EPD-01226 | 104 | 60 | -2 | 102 | 1 | 102 | 215 | -55 | 3 | -5 | 45 | 51 |
| | | | Dump Truck with Grab | CNP069 | 105 | 50 | -3 | 102 | 2 | 105 | 215 | -55 | 3 | -5 | 48 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 1 | 93 | 215 | -55 | 3 | -10 | 32 | |
| | | | Road Roller | EPD-01183 | 97 | 50 | -3 | 94 | 2 | 97 | 215 | -55 | 3 | -5 | 40 | |
| | | | Drilling Rig (Rotary Type) | CNP167 | 114 | 60 | -2 | 112 | 1 | 112 | 205 | -54 | 3 | -10 | 51 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 1 | 93 | 205 | -54 | 3 | -10 | 32 | |
| S7W | Pre-drilling works at Bridge G | May 2019 - Aug 2019 | Pumping Machine | CNP283 | 85 | 70 | -2 | 83 | 1 | 83 | 205 | -54 | 3 | 0 | 32 | 51 |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 70 | -2 | 83 | 2 | 86 | 205 | -54 | 3 | 0 | 35 | |
| | | | Crane Lorry | BS D7-114 | 101 | 50 | -3 | 98 | 1 | 98 | 205 | -54 | 3 | -5 | 42 | |
| | | | Grout Mixer | CNP105 | 90 | 60 | -2 | 88 | 1 | 88 | 205 | -54 | 3 | -5 | 32 | |
| | | | Drilling Rig (Rotary Type) | CNP167 | 114 | 70 | -2 | 112 | 2 | 115 | 170 | -53 | 3 | -10 | 56 | |
| | | | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 1 | 93 | 170 | -53 | 3 | -10 | 33 | |
| S10W | ELS & Excavation at Portion 8 | Jul 2019 - Oct 2019 | Pumping Machine | CNP283 | 85 | 60 | -2 | 83 | 1 | 83 | 170 | -53 | 3 | 0 | 33 | 56 |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 60 | -2 | 83 | 1 | 83 | 170 | -53 | 3 | 0 | 33 | |
| | | | Arc Welding Machine | CNP107 | 100 | 60 | -2 | 98 | 1 | 98 | 240 | -56 | 3 | -5 | 43 | |
| | | | Generator | EPD-07338 | 95 | 40 | -4 | 91 | 2 | 94 | 240 | -56 | 3 | -10 | 31 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 50 | -3 | 96 | 2 | 99 | 240 | -56 | 3 | -5 | 41 | |
| | Utilities Installation at Portion 8 | Jul 2019 - Oct 2019 | Excavator mounted with piling equipment | CNP167 | 114 | 60 | -2 | 112 | 2 | 115 | 240 | -56 | 3 | -5 | 57 | 58 |
| | | | Ventilation Fan | CNP241 | 108 | 50 | -3 | 105 | 2 | 108 | 240 | -56 | 3 | -10 | 45 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 50 | -3 | 82 | 4 | 88 | 240 | -56 | 3 | 0 | 35 | |
| | | | Arc Welding Machine | CNP107 | 100 | 60 | -2 | 98 | 1 | 98 | 240 | -56 | 3 | -5 | 40 | |
| | | | Breaker, Excavator Mounted (Hydraulic) | BS D8-13 | 110 | 50 | -3 | 107 | 1 | 107 | 240 | -56 | 3 | -5 | 49 | |
| S11W | Road Pavement at Lighting at Lai Cheung Road | Jul 2019 - Oct 2019 | Dump Truck with Grab | CNP069 | 105 | 60 | -2 | 103 | 2 | 106 | 240 | -56 | 3 | -5 | 48 | 53 |
| | | | Lorry | CNP142 | 105 | 50 | -3 | 102 | 1 | 102 | 240 | -56 | 3 | -5 | 44 | |
| | | | Saw, Wire | CNP205 | 101 | 40 | -4 | 97 | 2 | 100 | 240 | -56 | 3 | -5 | 42 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 60 | -2 | 97 | 1 | 97 | 240 | -56 | 3 | -5 | 39 | |
| | | | Asphalt Paver | EPD-01226 | 104 | 50 | -3 | 101 | 1 | 101 | 205 | -54 | 3 | -5 | 45 | |
| | | | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 3 | 98 | 205 | -54 | 3 | -10 | 36 | |
| S14W | ELS and Excavation at ch 130 to 185 | Jul 2019 - Oct 2019 | Road Roller | EPD-01183 | 97 | 50 | -3 | 94 | 2 | 97 | 205 | -54 | 3 | -5 | 41 | 55 |
| | | | Lorry | CNP142 | 105 | 60 | -2 | 103 | 1 | 103 | 205 | -54 | 3 | -5 | 47 | |
| | | | Excavator | EPD-01145 | 99 | 60 | -2 | 97 | 2 | 100 | 205 | -54 | 3 | -5 | 44 | |
| | | | Generator | EPD-07338 | 95 | 80 | -1 | 94 | 2 | 97 | 250 | -56 | 3 | -10 | 34 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 50 | -3 | 96 | 1 | 96 | 250 | -56 | 3 | -5 | 38 | |
| | | | Excavator mounted with piling equipment | CNP167 | 114 | 60 | -2 | 112 | 1 | 112 | 250 | -56 | 3 | -5 | 54 | |
| S16Wa, S16Wb | Pre-drilling works at Road B2/C2 & G | Aug 2019 - Dec 2019 | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 2 | 109 | 250 | -56 | 3 | -10 | 47 | 53 |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 70 | -2 | 83 | 2 | 86 | 250 | -56 | 3 | 0 | 34 | |
| | | | Arc Welding Machine | CNP107 | 100 | 50 | -3 | 97 | 2 | 100 | 250 | -56 | 3 | -5 | 42 | |
| | | | Drilling Rig (Rotary Type) | CNP167 | 114 | 60 | -2 | 112 | 1 | 112 | 175 | -53 | 3 | -10 | 52 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 1 | 93 | 175 | -53 | 3 | -10 | 34 | |
| | | | Pumping Machine | CNP283 | 85 | 70 | -2 | 83 | 1 | 83 | 175 | -53 | 3 | 0 | 34 | |

Build King - SKEC Joint Venture

Construction Noise Assessment

Period: 0700 to 1900 (except general holidays)

Noise Sensitive Receiver: W-N1A Yau Ma Tei Catholic Primary School (Hoi Wang Road)

Noise Criteria: 70 (65)

Mitigation Measures Scenario

| Worksite | Activity | Period | PME | TM Ref. / | Unit Quiet | On-time, | Time | Quiet Plant | No. of | Total SWL | Distance | Distance | Facade | Barrier | Predicted | Total Predicted |
|---|---|---------------------|---|-----------|------------|----------|------|-------------|--------|-----------|----------|----------|--------|---------|-----------|-----------------|
| S17W | Pre-drilling works at Road D | Jul 2019 - Sep 2019 | Drilling Rig (Rotary Type) | CNP167 | 114 | 60 | -2 | 112 | 1 | 112 | 275 | -57 | 3 | -10 | 48 | 49 |
| | | | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 1 | 93 | 275 | -57 | 3 | -10 | 29 | |
| | | | Pumping Machine | CNP283 | 85 | 60 | -2 | 83 | 1 | 83 | 275 | -57 | 3 | 0 | 29 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 70 | -2 | 83 | 2 | 86 | 275 | -57 | 3 | 0 | 33 | |
| | | | Crane Lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 275 | -57 | 3 | -5 | 40 | |
| | Piling Works at Road D | Jul 2019 - Sep 2019 | Grout Mixer | CNP105 | 90 | 70 | -2 | 88 | 1 | 88 | 275 | -57 | 3 | -5 | 30 | 52 |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 50 | -3 | 106 | 1 | 106 | 275 | -57 | 3 | -5 | 47 | |
| | | | Concrete pump | CNP047 | 109 | 40 | -4 | 105 | 1 | 105 | 275 | -57 | 3 | -10 | 41 | |
| | | | Dump Truck with Grab | CNP069 | 105 | 60 | -2 | 103 | 1 | 103 | 275 | -57 | 3 | -5 | 44 | |
| | | | Generator | EPD-07338 | 95 | 50 | -3 | 92 | 2 | 95 | 275 | -57 | 3 | -10 | 31 | |
| S18W | ELS and Excavation at Box Structure E | Jul 2019 - Oct 2019 | Crane Lorry | BS D7-114 | 101 | 40 | -4 | 97 | 1 | 97 | 275 | -57 | 3 | -5 | 38 | 56 |
| | | | Piling Plant | CNP167 | 114 | 50 | -3 | 111 | 1 | 111 | 275 | -57 | 3 | -10 | 47 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 40 | -4 | 98 | 2 | 101 | 275 | -57 | 3 | -5 | 42 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 60 | -2 | 97 | 1 | 97 | 275 | -57 | 3 | -5 | 38 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 50 | -3 | 82 | 2 | 85 | 275 | -57 | 3 | 0 | 31 | |
| | | | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 2 | 96 | 215 | -55 | 3 | -10 | 34 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 50 | -3 | 96 | 1 | 96 | 215 | -55 | 3 | -5 | 39 | |
| S19Wa, S19Wb, S19Wc, S19dW, S19eW | Piling Works at Segment 1 to 11 | Jul 2019 - Jun 2020 | Excavator mounted with piling equipment | CNP167 | 114 | 60 | -2 | 112 | 1 | 112 | 215 | -55 | 3 | -5 | 55 | 55 |
| | | | Ventilation Fan | CNP241 | 108 | 50 | -3 | 105 | 1 | 105 | 215 | -55 | 3 | -10 | 43 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 60 | -2 | 83 | 2 | 86 | 215 | -55 | 3 | 0 | 34 | |
| | | | Arc Welding Machine | CNP107 | 100 | 60 | -2 | 98 | 2 | 101 | 215 | -55 | 3 | -5 | 44 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 50 | -3 | 106 | 1 | 106 | 230 | -55 | 3 | -5 | 49 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -2 | 107 | 1 | 107 | 230 | -55 | 3 | -10 | 45 | |
| | | | Dump Truck with Grab | CNP069 | 105 | 60 | -2 | 103 | 1 | 103 | 230 | -55 | 3 | -5 | 46 | |
| | | | Generator | EPD-07338 | 95 | 50 | -3 | 92 | 2 | 95 | 230 | -55 | 3 | -10 | 33 | |
| | | | Crane Lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 230 | -55 | 3 | -5 | 42 | |
| | | | Piling Plant | CNP167 | 114 | 60 | -2 | 112 | 1 | 112 | 230 | -55 | 3 | -10 | 50 | |
| S22W | Construction of Base Slab at Ch. 130 to 185 | Nov 2019 - Mar 2020 | Poker, Vibratory, Hand Held | CNP173 | 102 | 50 | -3 | 99 | 2 | 102 | 230 | -55 | 3 | -5 | 45 | 52 |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 70 | -2 | 97 | 1 | 97 | 230 | -55 | 3 | -5 | 40 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 80 | -1 | 84 | 2 | 87 | 230 | -55 | 3 | 0 | 35 | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 50 | -3 | 87 | 1 | 87 | 245 | -56 | 3 | 0 | 34 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 50 | -3 | 106 | 1 | 106 | 245 | -56 | 3 | -5 | 48 | |
| | | | Concrete pump | CNP047 | 109 | 70 | -2 | 107 | 1 | 107 | 245 | -56 | 3 | -10 | 45 | |
| | | | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 1 | 93 | 245 | -56 | 3 | -10 | 30 | |
| | | | Crane lorry | BS D7-114 | 101 | 50 | -3 | 98 | 1 | 98 | 245 | -56 | 3 | -5 | 40 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 1 | 100 | 245 | -56 | 3 | -5 | 42 | |
| S23W | Construction of Ventilation Adit at Segment 3 & 4 | Nov 2019 - Mar 2020 | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 245 | -56 | 3 | -5 | 45 | 52 |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 70 | -2 | 83 | 2 | 86 | 245 | -56 | 3 | 0 | 34 | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 250 | -56 | 3 | 0 | 39 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 250 | -56 | 3 | -5 | 49 | |
| | | | Concrete pump | CNP047 | 109 | 50 | -3 | 106 | 1 | 106 | 250 | -56 | 3 | -10 | 43 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 250 | -56 | 3 | -10 | 34 | |
| | | | Crane lorry | BS D7-114 | 101 | 50 | -3 | 98 | 1 | 98 | 250 | -56 | 3 | -5 | 40 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 50 | -3 | 99 | 2 | 102 | 250 | -56 | 3 | -5 | 44 | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 250 | -56 | 3 | -5 | 45 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 70 | -2 | 83 | 2 | 86 | 250 | -56 | 3 | 0 | 34 | |

Build King - SKEC Joint Venture

Construction Noise Assessment

Period: 0700 to 1900 (except general holidays)

Noise Sensitive Receiver: W-N1A Yau Ma Tei Catholic Primary School (Hoi Wang Road)

Noise Criteria: 70 (65)

Mitigation Measures Scenario

| Worksite | Activity | Period | PME | TM Ref. / | Unit Quiet | On-time, | Time | Quiet Plant | No. of | Total SWL | Distance | Distance | Facade | Barrier | Predicted | Total Predicted |
|----------|--|---------------------|---|-----------|------------|----------|------|-------------|--------|-----------|----------|----------|--------|---------|-----------|-----------------|
| S24W | Pipe pile wall construction at Segment 10 to 11 | Jul 2019 - Oct 2019 | Concrete Lorry Mixer | CNP044 | 109 | 50 | -3 | 106 | 1 | 106 | 300 | -58 | 3 | -5 | 46 | 53 |
| | | | Concrete pump | CNP047 | 109 | 70 | -2 | 107 | 1 | 107 | 300 | -58 | 3 | -10 | 43 | |
| | | | Dump Truck with Grab | CNP069 | 105 | 50 | -3 | 102 | 1 | 102 | 300 | -58 | 3 | -5 | 42 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 300 | -58 | 3 | -10 | 32 | |
| | | | Crane Lorry | BS D7-114 | 101 | 50 | -3 | 98 | 1 | 98 | 300 | -58 | 3 | -5 | 38 | |
| | | | Piling Plant | CNP167 | 114 | 50 | -3 | 111 | 2 | 114 | 300 | -58 | 3 | -10 | 49 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 10 | -10 | 92 | 2 | 95 | 300 | -58 | 3 | -5 | 35 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 50 | -3 | 96 | 1 | 96 | 300 | -58 | 3 | -5 | 36 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 60 | -2 | 83 | 2 | 86 | 300 | -58 | 3 | 0 | 31 | |
| | | | | | | | | | | | | | | | | |
| S25W | Pipe pile wall ELS and excavation | Jul 2019 - Oct 2019 | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 2 | 96 | 250 | -56 | 3 | -10 | 33 | 47 |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 50 | -3 | 96 | 2 | 99 | 250 | -56 | 3 | -5 | 41 | |
| | | | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 1 | 106 | 250 | -56 | 3 | -10 | 43 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 70 | -2 | 83 | 2 | 86 | 250 | -56 | 3 | 0 | 34 | |
| | | | Arc Welding Machine | CNP107 | 100 | 50 | -3 | 97 | 2 | 100 | 250 | -56 | 3 | -5 | 42 | |
| S27W | ELS and Excavation at Road D | Nov 2019 - Mar 2020 | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 2 | 96 | 290 | -57 | 3 | -10 | 32 | 54 |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 50 | -3 | 96 | 2 | 99 | 290 | -57 | 3 | -5 | 40 | |
| | | | Excavator mounted with piling equipment | CNP167 | 114 | 70 | -2 | 112 | 1 | 112 | 290 | -57 | 3 | -5 | 53 | |
| | | | Ventilation Fan | CNP241 | 108 | 50 | -3 | 105 | 2 | 108 | 290 | -57 | 3 | -10 | 44 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 60 | -2 | 83 | 4 | 89 | 290 | -57 | 3 | 0 | 35 | |
| | | | Arc Welding Machine | CNP107 | 100 | 50 | -3 | 97 | 2 | 100 | 290 | -57 | 3 | -5 | 41 | |
| S28W | Construction of Pile Cap at Road G | Nov 2019 - Mar 2020 | Concrete Lorry Mixer | CNP044 | 109 | 50 | -3 | 106 | 1 | 106 | 170 | -53 | 3 | -5 | 51 | 59 |
| | | | Bar Bender and Cutter | CNP021 | 90 | 40 | -4 | 86 | 2 | 89 | 170 | -53 | 3 | 0 | 39 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 50 | -3 | 106 | 2 | 109 | 170 | -53 | 3 | -5 | 54 | |
| | | | Concrete pump | CNP047 | 109 | 50 | -3 | 106 | 1 | 106 | 170 | -53 | 3 | -10 | 46 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 170 | -53 | 3 | -10 | 37 | |
| | | | crane lorry | BS D7-114 | 101 | 50 | -3 | 98 | 1 | 98 | 170 | -53 | 3 | -5 | 43 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 50 | -3 | 99 | 2 | 102 | 170 | -53 | 3 | -5 | 47 | |
| | | | Piling Crane mounted auger | BS D4-37 | 111 | 60 | -2 | 109 | 2 | 112 | 170 | -53 | 3 | -10 | 52 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 60 | -2 | 97 | 1 | 97 | 170 | -53 | 3 | -5 | 42 | |
| | | | | | | | | | | | | | | | | |
| S29W | Construction of Box Structure E | Nov 2019 - Mar 2020 | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 195 | -54 | 3 | -5 | 51 | 57 |
| | | | Bar Bender and Cutter | CNP021 | 90 | 50 | -3 | 87 | 2 | 90 | 195 | -54 | 3 | 0 | 39 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 50 | -3 | 106 | 2 | 109 | 195 | -54 | 3 | -5 | 53 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -2 | 107 | 1 | 107 | 195 | -54 | 3 | -10 | 46 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 195 | -54 | 3 | -10 | 36 | |
| | | | crane lorry | BS D7-114 | 101 | 50 | -3 | 98 | 1 | 98 | 195 | -54 | 3 | -5 | 42 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 50 | -3 | 99 | 2 | 102 | 195 | -54 | 3 | -5 | 46 | |
| | | | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 1 | 106 | 195 | -54 | 3 | -10 | 46 | |
| S30W | Construction of D Wall - Excavation for Diaphragm Walls | Nov 2019 - Mar 2020 | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 50 | -3 | 96 | 1 | 96 | 195 | -54 | 3 | -5 | 40 | 48 |
| | | | Dump Truck with Grab | CNP069 | 105 | 50 | -3 | 102 | 1 | 102 | 265 | -56 | 3 | -5 | 44 | |
| | | | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 1 | 93 | 265 | -56 | 3 | -10 | 29 | |
| | | | Lorry | CNP142 | 105 | 50 | -3 | 102 | 1 | 102 | 265 | -56 | 3 | -5 | 44 | |
| | | | Piling, Diaphragm Wall, Bentonite Filtering Plant | BS D7-114 | 101 | 50 | -3 | 98 | 1 | 98 | 265 | -56 | 3 | -5 | 40 | |
| S30W | Construction of D Wall - Concreting for Diaphragm Walls | Nov 2019 - Mar 2020 | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 60 | -2 | 97 | 1 | 97 | 265 | -56 | 3 | -5 | 38 | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 60 | -2 | 88 | 1 | 88 | 265 | -56 | 3 | 0 | 34 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 265 | -56 | 3 | -5 | 48 | |
| | | | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 1 | 108 | 265 | -56 | 3 | -10 | 45 | |
| S31W | Construction of Temporary Road Subbase, Roadbase and Surfacing | Apr 2020 - Nov 2020 | Asphalt Paver | EPD-01226 | 104 | 60 | -2 | 102 | 1 | 102 | 240 | -56 | 3 | -5 | 44 | 50 |
| | | | Dump Truck with Grab | CNP069 | 105 | 70 | -2 | 103 | 2 | 106 | 240 | -56 | 3 | -5 | 49 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 3 | 98 | 240 | -56 | 3 | -10 | 36 | |
| | | | Road Roller | EPD-01183 | 97 | 60 | -2 | 95 | 2 | 98 | 240 | -56 | 3 | -5 | 40 | |

Build King - SKEC Joint Venture

Construction Noise Assessment

Period: 0700 to 1900 (except general holidays)

Noise Sensitive Receiver: W-N1A Yau Ma

Mitigation Measures Scenario

Noise Criteria: 70 (65)

Mitigation Measures Scenario

| Worksite | Activity | Period | PME | TM Ref. / | Unit Quiet | On-time, | Time | Quiet Plant | No. of | Total SWL | Distance | Distance | Façade | Barrier | Predicted | Total Predicted |
|---------------------------|--|---------------------|------------------------------------|-----------|------------|----------|------|-------------|--------|-----------|----------|----------|--------|---------|-----------|-----------------|
| S32Wa, S32Wb, S32Wc | Construction of Ventilation Adit at Segment 3 & 4, 10 & 11, Ch. 130 to 185 | Apr 2020 - Nov 2020 | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 240 | -56 | 3 | 0 | 39 | 54 |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 240 | -56 | 3 | -5 | 49 | |
| | | | Concrete pump | CNP047 | 109 | 70 | -2 | 107 | 1 | 107 | 240 | -56 | 3 | -10 | 45 | |
| | | | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 2 | 96 | 240 | -56 | 3 | -10 | 33 | |
| | | | crane lorry | BS D7-114 | 101 | 50 | -3 | 98 | 1 | 98 | 240 | -56 | 3 | -5 | 40 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 240 | -56 | 3 | -5 | 45 | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 240 | -56 | 3 | -5 | 45 | |
| | | | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 2 | 109 | 240 | -56 | 3 | -10 | 47 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 60 | -2 | 83 | 4 | 89 | 240 | -56 | 3 | 0 | 36 | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 50 | -3 | 87 | 2 | 90 | 250 | -56 | 3 | 0 | 37 | |
| S34W | Construction of RC works at ch 140 to 185 | Apr 2020 - Nov 2020 | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 250 | -56 | 3 | -5 | 49 | 54 |
| | | | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 1 | 108 | 250 | -56 | 3 | -10 | 45 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 250 | -56 | 3 | -10 | 34 | |
| | | | crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 250 | -56 | 3 | -5 | 41 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 250 | -56 | 3 | -5 | 45 | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 250 | -56 | 3 | -5 | 45 | |
| | | | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 2 | 109 | 250 | -56 | 3 | -10 | 47 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 70 | -2 | 83 | 2 | 86 | 250 | -56 | 3 | 0 | 34 | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 60 | -2 | 88 | 2 | 91 | 280 | -57 | 3 | 0 | 37 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 50 | -3 | 106 | 1 | 106 | 280 | -57 | 3 | -5 | 47 | |
| S36W | Construction of Structure I and Abutment B | Apr 2020 - Nov 2020 | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 1 | 108 | 280 | -57 | 3 | -10 | 44 | 53 |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 280 | -57 | 3 | -10 | 33 | |
| | | | crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 280 | -57 | 3 | -5 | 40 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 280 | -57 | 3 | -5 | 44 | |
| | | | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 2 | 109 | 280 | -57 | 3 | -10 | 46 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 50 | -3 | 96 | 1 | 96 | 280 | -57 | 3 | -5 | 37 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 220 | -55 | 3 | -5 | 50 | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 220 | -55 | 3 | 0 | 40 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 220 | -55 | 3 | -5 | 53 | |
| | | | Concrete pump | CNP047 | 109 | 50 | -3 | 106 | 1 | 106 | 220 | -55 | 3 | -10 | 44 | |
| S37W | Construction of Abument wall | Apr 2020 - Nov 2020 | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 220 | -55 | 3 | -10 | 35 | 57 |
| | | | crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 220 | -55 | 3 | -5 | 42 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 220 | -55 | 3 | -5 | 46 | |
| | | | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 2 | 109 | 220 | -55 | 3 | -10 | 48 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 70 | -2 | 97 | 1 | 97 | 220 | -55 | 3 | -5 | 41 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 50 | -3 | 106 | 1 | 106 | 170 | -53 | 3 | -5 | 51 | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 170 | -53 | 3 | 0 | 42 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 170 | -53 | 3 | -5 | 52 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -2 | 107 | 1 | 107 | 170 | -53 | 3 | -10 | 47 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 170 | -53 | 3 | -10 | 37 | |
| S38W | Construction of Pile Cap and Piers at Road G | Apr 2020 - Nov 2020 | crane lorry | BS D7-114 | 101 | 50 | -3 | 98 | 1 | 98 | 170 | -53 | 3 | -5 | 43 | 57 |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 50 | -3 | 99 | 2 | 102 | 170 | -53 | 3 | -5 | 47 | |
| | | | Piling Crane mounted auger | BS D4-37 | 111 | 60 | -2 | 109 | 1 | 109 | 170 | -53 | 3 | -10 | 49 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 60 | -2 | 97 | 1 | 97 | 170 | -53 | 3 | -5 | 42 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 50 | -3 | 106 | 2 | 109 | 220 | -55 | 3 | -5 | 52 | |
| | | | Concrete pump | CNP047 | 109 | 70 | -2 | 107 | 1 | 107 | 220 | -55 | 3 | -10 | 46 | |
| | | | Dump Truck with Grab | CNP069 | 105 | 50 | -3 | 102 | 1 | 102 | 220 | -55 | 3 | -5 | 45 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 220 | -55 | 3 | -10 | 35 | |
| | | | Lorry | CNP142 | 105 | 50 | -3 | 102 | 1 | 102 | 220 | -55 | 3 | -5 | 45 | |
| | | | or | | | | | | | | | | | | | |
| S39W | Piling Works at Segment 5 to 9 | Apr 2020 - Nov 2020 | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 2 | 96 | 220 | -55 | 3 | -10 | 34 | 56 |
| | | | Lorry | CNP142 | 105 | 50 | -3 | 102 | 1 | 102 | 220 | -55 | 3 | -5 | 45 | |
| | | | crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 220 | -55 | 3 | -5 | 42 | |
| | | | Piling Crane mounted auger | BS D4-37 | 111 | 60 | -2 | 109 | 1 | 109 | 220 | -55 | 3 | -10 | 47 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 60 | -2 | 97 | 1 | 97 | 220 | -55 | 3 | -5 | 40 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 50 | -3 | 106 | 2 | 109 | 220 | -55 | 3 | -5 | 52 | |
| | | | Concrete pump | CNP047 | 109 | 70 | -2 | 107 | 1 | 107 | 220 | -55 | 3 | -10 | 46 | |
| | | | Dump Truck with Grab | CNP069 | 105 | 50 | -3 | 102 | 1 | 102 | 220 | -55 | 3 | -5 | 45 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 220 | -55 | 3 | -10 | 35 | |
| | | | Lorry | CNP142 | 105 | 50 | -3 | 102 | 1 | 102 | 220 | -55 | 3 | -5 | 45 | |

Build King - SKEC Joint Venture

Construction Noise Assessment

Period: 0700 to 1900 (except general holidays)

Noise Sensitive Receiver: W-N1A Yau Ma Tei Catholic Primary School (Hoi Wang Road)

Noise Criteria: 70 (65)

Mitigation Measures Scenario

| Worksite | Activity | Period | PME | TM Ref. / | Unit Quiet | On-time, | Time | Quiet Plant | No. of | Total SWL | Distance | Distance | Façade | Barrier | Predicted | Total Predicted |
|---------------------------|---|---------------------|--|-----------|------------|----------|------|-------------|--------|-----------|----------|----------|--------|---------|-----------|-----------------|
| S41W | Construction of Pile Cap and foundation wall at Segment 10 to 11 | Apr 2020 - Nov 2020 | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 275 | -57 | 3 | -5 | 48 | 55 |
| | | | Bar Bender and Cutter | CNP021 | 90 | 50 | -3 | 87 | 2 | 90 | 275 | -57 | 3 | 0 | 36 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 275 | -57 | 3 | -5 | 51 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -2 | 107 | 1 | 107 | 275 | -57 | 3 | -10 | 43 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 275 | -57 | 3 | -10 | 33 | |
| | | | crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 275 | -57 | 3 | -5 | 40 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 275 | -57 | 3 | -5 | 44 | |
| | | | Piling Crane mounted auger | BS D4-37 | 111 | 50 | -3 | 108 | 2 | 111 | 275 | -57 | 3 | -10 | 47 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 60 | -2 | 97 | 1 | 97 | 275 | -57 | 3 | -5 | 38 | |
| | | | | | | | | | | | | | | | | |
| S43Wa, S43Wb, S43Wc | Construction of Ventilation Adit at Segment 7, 8 & 12, ch 90 to 130 | Dec 2020 - Jun 2021 | Bar Bender and Cutter | CNP021 | 90 | 50 | -3 | 87 | 2 | 90 | 250 | -56 | 3 | 0 | 37 | 55 |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 250 | -56 | 3 | -5 | 52 | |
| | | | Concrete pump | CNP047 | 109 | 70 | -2 | 107 | 2 | 110 | 250 | -56 | 3 | -10 | 48 | |
| | | | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 2 | 96 | 250 | -56 | 3 | -10 | 33 | |
| | | | Crane Mobile | EPD-07994 | 101 | 50 | -3 | 98 | 1 | 98 | 250 | -56 | 3 | -5 | 40 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 250 | -56 | 3 | -5 | 45 | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 250 | -56 | 3 | -5 | 45 | |
| | | | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 2 | 109 | 250 | -56 | 3 | -10 | 47 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 70 | -2 | 83 | 4 | 89 | 250 | -56 | 3 | 0 | 37 | |
| | | | | | | | | | | | | | | | | |
| S44Wa, S44Wb | Demolition of Existing Box Culvert | Dec 2020 - Jun 2021 | Breaker, Excavator Mounted (Hydraulic) | BS D8-13 | 110 | 60 | -2 | 108 | 1 | 108 | 205 | -54 | 3 | -5 | 52 | 54 |
| | | | Dump Truck with Grab | CNP069 | 105 | 50 | -3 | 102 | 2 | 105 | 205 | -54 | 3 | -5 | 49 | |
| | | | crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 205 | -54 | 3 | -5 | 43 | |
| | | | Saw, Wire | CNP205 | 101 | 50 | -3 | 98 | 2 | 101 | 205 | -54 | 3 | -5 | 45 | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 50 | -3 | 87 | 2 | 90 | 205 | -54 | 3 | 0 | 39 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 205 | -54 | 3 | -5 | 54 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -2 | 107 | 2 | 110 | 205 | -54 | 3 | -10 | 49 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 205 | -54 | 3 | -10 | 35 | |
| | | | Crane Mobile | EPD-07994 | 101 | 60 | -2 | 99 | 1 | 99 | 205 | -54 | 3 | -5 | 43 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 205 | -54 | 3 | -5 | 47 | |
| S47W | Construction of Box Culvert at ch 140 to 185 | Dec 2020 - Jun 2021 | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 205 | -54 | 3 | -5 | 47 | 57 |
| | | | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 2 | 109 | 205 | -54 | 3 | -10 | 48 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 70 | -2 | 83 | 4 | 89 | 205 | -54 | 3 | 0 | 38 | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 60 | -2 | 88 | 2 | 91 | 180 | -53 | 3 | 0 | 41 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 180 | -53 | 3 | -5 | 52 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -2 | 107 | 1 | 107 | 180 | -53 | 3 | -10 | 47 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 180 | -53 | 3 | -10 | 36 | |
| | | | Crane Mobile | EPD-07994 | 101 | 70 | -2 | 99 | 1 | 99 | 180 | -53 | 3 | -5 | 44 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 180 | -53 | 3 | -5 | 48 | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 180 | -53 | 3 | -5 | 48 | |
| S48W | Construction of Bridge Deck at Road G | Dec 2020 - Jun 2021 | Ventilation Fan | CNP241 | 108 | 60 | -2 | 106 | 2 | 109 | 180 | -53 | 3 | -10 | 49 | 56 |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 60 | -2 | 83 | 4 | 89 | 180 | -53 | 3 | 0 | 39 | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 170 | -53 | 3 | 0 | 42 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 170 | -53 | 3 | -5 | 52 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -2 | 107 | 1 | 107 | 170 | -53 | 3 | -10 | 47 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 170 | -53 | 3 | -10 | 37 | |
| | | | Crane Mobile | EPD-07994 | 101 | 60 | -2 | 99 | 1 | 99 | 170 | -53 | 3 | -5 | 44 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 50 | -3 | 99 | 2 | 102 | 170 | -53 | 3 | -5 | 47 | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 170 | -53 | 3 | -5 | 48 | |
| | | | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 4 | 112 | 170 | -53 | 3 | -10 | 53 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 70 | -2 | 83 | 4 | 89 | 170 | -53 | 3 | 0 | 40 | |

Build King - SKEC Joint Venture

Construction Noise Assessment

Period: 0700 to 1900 (except general holidays)

Noise Sensitive Receiver: W-N1A Yau Ma Tei Catholic Primary School (Hoi Wang Road)

Noise Criteria: 70 (65)

Mitigation Measures Scenario

| Worksite | Activity | Period | PME | TM Ref. / | Unit Quiet | On-time, | Time | Quiet Plant | No. of | Total SWL | Distance | Distance | Façade | Barrier | Predicted | Total Predicted | |
|----------|---|---------------------|---|-----------|------------|----------|------|-------------|--------|-----------|----------|----------|--------|---------|-----------|-----------------|--|
| S49W | Piling Works at Segment 5 & 6 | Jan 2020 - Sep 2021 | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 205 | -54 | 3 | -5 | 54 | 57 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -2 | 107 | 1 | 107 | 205 | -54 | 3 | -10 | 46 | | |
| | | | Dump Truck with Grab | CNP069 | 105 | 70 | -2 | 103 | 1 | 103 | 205 | -54 | 3 | -5 | 47 | | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 205 | -54 | 3 | -10 | 35 | | |
| | | | Lorry | CNP142 | 105 | 60 | -2 | 103 | 1 | 103 | 205 | -54 | 3 | -5 | 47 | | |
| | | | | | | | | or | | | | | | | | | |
| | | | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 2 | 96 | 205 | -54 | 3 | -10 | 35 | | |
| | | | Lorry | CNP142 | 105 | 60 | -2 | 103 | 1 | 103 | 205 | -54 | 3 | -5 | 47 | | |
| | | | Crane Mobile | EPD-07994 | 101 | 70 | -2 | 99 | 1 | 99 | 205 | -54 | 3 | -5 | 43 | | |
| | | | Piling Crane mounted auger | BS D4-37 | 111 | 70 | -2 | 109 | 1 | 109 | 205 | -54 | 3 | -10 | 48 | | |
| S54W | Construction of Ventilation Adit at Box Culvert A | Jul 2021 - Feb 2022 | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 70 | -2 | 97 | 1 | 97 | 205 | -54 | 3 | -5 | 41 | 55 | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 250 | -56 | 3 | 0 | 39 | | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 250 | -56 | 3 | -5 | 52 | | |
| | | | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 1 | 108 | 250 | -56 | 3 | -10 | 45 | | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 250 | -56 | 3 | -10 | 34 | | |
| | | | crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 250 | -56 | 3 | -5 | 41 | | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 250 | -56 | 3 | -5 | 45 | | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 250 | -56 | 3 | -5 | 45 | | |
| | | | Ventilation Fan | CNP241 | 108 | 60 | -2 | 106 | 4 | 112 | 250 | -56 | 3 | -10 | 49 | | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 70 | -2 | 83 | 4 | 89 | 250 | -56 | 3 | 0 | 37 | | |
| S56W | Construction of Structure III at Road B2/C2 | Jul 2021 - Feb 2022 | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 265 | -56 | 3 | 0 | 38 | 53 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 265 | -56 | 3 | -5 | 48 | | |
| | | | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 1 | 108 | 265 | -56 | 3 | -10 | 45 | | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 265 | -56 | 3 | -10 | 33 | | |
| | | | crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 265 | -56 | 3 | -5 | 40 | | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 265 | -56 | 3 | -5 | 44 | | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 265 | -56 | 3 | -5 | 45 | | |
| | | | Ventilation Fan | CNP241 | 108 | 60 | -2 | 106 | 2 | 109 | 265 | -56 | 3 | -10 | 45 | | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 70 | -2 | 83 | 4 | 89 | 265 | -56 | 3 | 0 | 36 | | |
| | | | Arc Welding Machine | CNP107 | 100 | 70 | -2 | 98 | 3 | 103 | 170 | -53 | 3 | -5 | 49 | | |
| S58W | ELS and Excavation at Segment 3 & 4 | Jul 2021 - Feb 2022 | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 4 | 99 | 170 | -53 | 3 | -10 | 39 | 60 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 70 | -2 | 97 | 2 | 100 | 170 | -53 | 3 | -5 | 46 | | |
| | | | Excavator mounted with piling equipment | CNP167 | 114 | 80 | -1 | 113 | 1 | 113 | 170 | -53 | 3 | -5 | 58 | | |
| | | | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 2 | 109 | 170 | -53 | 3 | -10 | 50 | | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 60 | -2 | 83 | 4 | 89 | 170 | -53 | 3 | 0 | 39 | | |
| | | | Arc Welding Machine | CNP107 | 100 | 70 | -2 | 98 | 3 | 103 | 170 | -53 | 3 | -5 | 49 | | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 170 | -53 | 3 | -5 | 52 | | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 170 | -53 | 3 | 0 | 42 | | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 170 | -53 | 3 | -5 | 52 | | |
| | | | Concrete pump | CNP047 | 109 | 60 | -2 | 107 | 1 | 107 | 170 | -53 | 3 | -10 | 47 | | |
| S58W | Construction of Pile Cap and Foundation Wall at Segment 3 & 4 | Jul 2021 - Feb 2022 | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 170 | -53 | 3 | -10 | 37 | 58 | |
| | | | crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 170 | -53 | 3 | -5 | 44 | | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 170 | -53 | 3 | -5 | 48 | | |
| | | | Piling Crane mounted auger | BS D4-37 | 111 | 70 | -2 | 109 | 1 | 109 | 170 | -53 | 3 | -10 | 50 | | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 70 | -2 | 97 | 1 | 97 | 170 | -53 | 3 | -5 | 43 | | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 50 | -3 | 87 | 2 | 90 | 205 | -54 | 3 | 0 | 39 | | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 205 | -54 | 3 | -5 | 54 | | |
| | | | Concrete pump | CNP047 | 109 | 50 | -3 | 106 | 2 | 109 | 205 | -54 | 3 | -10 | 48 | | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 205 | -54 | 3 | -10 | 35 | | |
| | | | crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 205 | -54 | 3 | -5 | 43 | | |
| S58W | Construction of Column at Segment 5 & 6 | Jul 2021 - Feb 2022 | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 205 | -54 | 3 | -5 | 47 | 57 | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 205 | -54 | 3 | -5 | 47 | | |
| | | | Ventilation Fan | CNP241 | 108 | 60 | -2 | 106 | 2 | 109 | 205 | -54 | 3 | -10 | 48 | | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 60 | -2 | 83 | 2 | 86 | 205 | -54 | 3 | 0 | 35 | | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 50 | -3 | 87 | 2 | 90 | 205 | -54 | 3 | 0 | 39 | | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 205 | -54 | 3 | -5 | 54 | | |
| | | | Concrete pump | CNP047 | 109 | 50 | -3 | 106 | 2 | 109 | 205 | -54 | 3 | -10 | 48 | | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 205 | -54 | 3 | -10 | 35 | | |
| | | | crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 205 | -54 | 3 | -5 | 43 | | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 205 | -54 | 3 | -5 | 47 | | |

Build King - SKEC Joint Venture

Construction Noise Assessment

Period: 0700 to 1900 (except general holidays)

Noise Sensitive Receiver: W-N1A Yau Ma Tei Catholic Primary School (Hoi Wang Road)

Mitigation Measures Scenario

Noise Criteria: 70 (65)

| Worksite | Activity | Period | PME | TM Ref. / | Unit Quiet | On-time, | Time | Quiet Plant | No. of | Total SWL | Distance | Distance | Façade | Barrier | Predicted | Total Predicted |
|----------|--|---------------------|---|-----------|------------|----------|------|-------------|--------|-----------|----------|----------|--------|---------|-----------|-----------------|
| S59W | Construction of Road Facilities at Segment 5 & 6 | Jul 2021 - Feb 2022 | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 205 | -54 | 3 | -5 | 51 | 55 |
| | | | Dump Truck with Grab | CNP069 | 105 | 50 | -3 | 102 | 2 | 105 | 205 | -54 | 3 | -5 | 49 | |
| | | | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 3 | 98 | 205 | -54 | 3 | -10 | 36 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 1 | 100 | 205 | -54 | 3 | -5 | 44 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 50 | -3 | 96 | 2 | 99 | 205 | -54 | 3 | -5 | 43 | |
| | | | Crane Lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 205 | -54 | 3 | -5 | 43 | |
| | | | Concrete pump | CNP047 | 109 | 70 | -2 | 107 | 1 | 107 | 205 | -54 | 3 | -10 | 46 | |
| | Construction of Landscapee Deck at Segment 5 & 6 | Jul 2021 - Feb 2022 | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 205 | -54 | 3 | 0 | 40 | 55 |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 205 | -54 | 3 | -5 | 51 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -2 | 107 | 1 | 107 | 205 | -54 | 3 | -10 | 46 | |
| S61W | Construction of Overhead Ventilation, Landscape Deck and Staircase | Dec 2020 - Jun 2021 | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 2 | 96 | 290 | -57 | 3 | -10 | 32 | 55 |
| | | | crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 290 | -57 | 3 | -5 | 40 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 290 | -57 | 3 | -5 | 44 | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 1 | 100 | 205 | -54 | 3 | -5 | 44 | |
| | | | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 2 | 109 | 205 | -54 | 3 | -10 | 48 | |
| | | | Lorry | CNP142 | 105 | 60 | -2 | 103 | 2 | 106 | 290 | -57 | 3 | -5 | 47 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 60 | -2 | 83 | 4 | 89 | 290 | -57 | 3 | 0 | 35 | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 290 | -57 | 3 | 0 | 37 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 290 | -57 | 3 | -5 | 51 | |
| | | | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 1 | 108 | 290 | -57 | 3 | -10 | 44 | |
| S63W | Pipe pile wall construction at Segment 1, 2 | Mar 2022 - May 2022 | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 3 | 98 | 250 | -56 | 3 | -10 | 35 | 56 |
| | | | Crane Lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 250 | -56 | 3 | -5 | 41 | |
| | | | Piling Plant | CNP167 | 114 | 70 | -2 | 112 | 2 | 115 | 250 | -56 | 3 | -10 | 53 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 250 | -56 | 3 | -5 | 45 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 70 | -2 | 97 | 1 | 97 | 250 | -56 | 3 | -5 | 39 | |
| | Excavation at Segment 1, 2 | Mar 2022 - May 2022 | Water Pump, Submersible (Electric) | CNP283 | 85 | 70 | -2 | 83 | 4 | 89 | 250 | -56 | 3 | 0 | 37 | |
| | | | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 2 | 96 | 250 | -56 | 3 | -10 | 33 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 70 | -2 | 97 | 2 | 100 | 250 | -56 | 3 | -5 | 43 | |
| | | | Excavator mounted with piling equipment | CNP167 | 114 | 60 | -2 | 112 | 1 | 112 | 250 | -56 | 3 | -5 | 54 | |
| | | | Ventilation Fan | CNP241 | 108 | 50 | -3 | 105 | 2 | 108 | 250 | -56 | 3 | -10 | 45 | |
| S64W | Piling Works (No.41) and Piers (C2P6, B2P5) at Road B2/C2 | Apr 2022 - May 2022 | Water Pump, Submersible (Electric) | CNP283 | 85 | 70 | -2 | 83 | 4 | 89 | 250 | -56 | 3 | 0 | 37 | 55 |
| | | | Arc Welding Machine | CNP107 | 100 | 60 | -2 | 98 | 3 | 103 | 250 | -56 | 3 | -5 | 45 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 290 | -57 | 3 | -5 | 51 | |
| | | | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 1 | 108 | 290 | -57 | 3 | -10 | 44 | |
| | | | Dump Truck with Grab | CNP069 | 105 | 70 | -2 | 103 | 1 | 103 | 290 | -57 | 3 | -5 | 44 | |
| | | | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 2 | 96 | 290 | -57 | 3 | -10 | 32 | |
| | | | Lorry | CNP142 | 105 | 60 | -2 | 103 | 1 | 103 | 290 | -57 | 3 | -5 | 44 | |
| | | | crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 290 | -57 | 3 | -5 | 40 | |
| | | | Piling Crane mounted auger | BS D4-37 | 111 | 50 | -3 | 108 | 2 | 111 | 290 | -57 | 3 | -10 | 47 | |
| | | | Excavator/ loader, Wheeled/Tracked | EPD-01145 | 99 | 70 | -2 | 97 | 1 | 97 | 290 | -57 | 3 | -5 | 38 | |

Build King - SKEC Joint Venture

Construction Noise Assessment

Period: 0700 to 1900 (except general holidays)

Noise Sensitive Receiver: W-N1A Yau Ma Tei Catholic Primary School (Hoi Wang Road)

Noise Criteria: 70 (65)

Mitigation Measures Scenario

| Worksite | Activity | Period | PME | TM Ref. / | Unit Quiet | On-time, | Time | Quiet Plant | No. of | Total SWL | Distance | Distance | Façade | Barrier | Predicted | Total Predicted |
|----------|--|---------------------|---|-----------|------------|----------|------|-------------|--------|-----------|----------|----------|--------|---------|-----------|-----------------|
| S65W | Construction of Noise Barrier at Road E/F | Mar 2022 - May 2022 | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 180 | -53 | 3 | 0 | 41 | 58 |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 180 | -53 | 3 | -5 | 52 | |
| | | | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 2 | 111 | 180 | -53 | 3 | -10 | 51 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 180 | -53 | 3 | -10 | 36 | |
| | | | crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 180 | -53 | 3 | -5 | 44 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 180 | -53 | 3 | -5 | 48 | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 180 | -53 | 3 | -5 | 48 | |
| | | | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 4 | 112 | 180 | -53 | 3 | -10 | 52 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 70 | -2 | 83 | 4 | 89 | 180 | -53 | 3 | 0 | 39 | |
| | | | Excavator | EPD-01145 | 99 | 50 | -3 | 96 | 2 | 99 | 180 | -53 | 3 | -5 | 44 | |
| S67W | Construction of Column at Segment 3, 4 | Mar 2022 - May 2022 | Bar Bender and Cutter | CNP021 | 90 | 50 | -3 | 87 | 2 | 90 | 220 | -55 | 3 | 0 | 38 | 56 |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 220 | -55 | 3 | -5 | 50 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -2 | 107 | 2 | 110 | 220 | -55 | 3 | -10 | 48 | |
| | | | Generator | EPD-07338 | 95 | 50 | -3 | 92 | 2 | 95 | 220 | -55 | 3 | -10 | 33 | |
| | | | crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 220 | -55 | 3 | -5 | 42 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 220 | -55 | 3 | -5 | 46 | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 220 | -55 | 3 | -5 | 46 | |
| S68W | ELS and Excavation at Segment 3, 4 | Mar 2022 - May 2022 | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 1 | 106 | 180 | -53 | 3 | -10 | 46 | 52 |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 60 | -2 | 83 | 4 | 89 | 180 | -53 | 3 | 0 | 39 | |
| | | | Arc Welding Machine | CNP107 | 100 | 70 | -2 | 98 | 3 | 103 | 180 | -53 | 3 | -5 | 48 | |
| | | | Generator | EPD-07338 | 95 | 50 | -3 | 92 | 4 | 98 | 180 | -53 | 3 | -10 | 38 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 70 | -2 | 97 | 2 | 100 | 180 | -53 | 3 | -5 | 45 | |
| S71W | ELS and Excavation at Ventilation Adit | Jun 2022 - Nov 2022 | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 70 | -2 | 97 | 2 | 100 | 290 | -57 | 3 | -5 | 41 | 55 |
| | | | Excavator mounted with piling equipment | CNP167 | 114 | 80 | -1 | 113 | 1 | 113 | 290 | -57 | 3 | -5 | 54 | |
| | | | Ventilation Fan | CNP241 | 108 | 60 | -2 | 106 | 2 | 109 | 290 | -57 | 3 | -10 | 45 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 70 | -2 | 83 | 4 | 89 | 290 | -57 | 3 | 0 | 35 | |
| | | | Arc Welding Machine | CNP107 | 100 | 70 | -2 | 98 | 3 | 103 | 290 | -57 | 3 | -5 | 44 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 4 | 99 | 290 | -57 | 3 | -10 | 35 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 70 | -2 | 97 | 2 | 100 | 290 | -57 | 3 | -5 | 41 | |
| S72W | Construction of Ventilation Adit at Ch. 60 to 90 | Jun 2022 - Nov 2022 | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 290 | -57 | 3 | 0 | 37 | 52 |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 290 | -57 | 3 | -5 | 48 | |
| | | | Concrete pump | CNP047 | 109 | 50 | -3 | 106 | 1 | 106 | 290 | -57 | 3 | -10 | 42 | |
| | | | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 2 | 96 | 290 | -57 | 3 | -10 | 32 | |
| | | | crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 290 | -57 | 3 | -5 | 40 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 290 | -57 | 3 | -5 | 44 | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 1 | 100 | 290 | -57 | 3 | -5 | 41 | |
| | | | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 2 | 109 | 290 | -57 | 3 | -10 | 45 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 60 | -2 | 83 | 4 | 89 | 290 | -57 | 3 | 0 | 35 | |
| | | | Generator | EPD-07338 | 95 | 80 | -1 | 94 | 4 | 100 | 250 | -56 | 3 | -10 | 37 | 55 |
| S72W | Backfilling at Ventilation Adit | Jun 2022 - Nov 2022 | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 70 | -2 | 97 | 2 | 100 | 250 | -56 | 3 | -5 | 43 | |
| | | | Ventilation Fan | CNP241 | 108 | 60 | -2 | 106 | 4 | 112 | 250 | -56 | 3 | -10 | 49 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 60 | -2 | 83 | 4 | 89 | 250 | -56 | 3 | 0 | 36 | |
| | | | Generator | EPD-07338 | 95 | 80 | -1 | 94 | 4 | 100 | 250 | -56 | 3 | -10 | 37 | |

Build King - SKEC Joint Venture

Construction Noise Assessment

Period: 0700 to 1900 (except general holidays)

Noise Sensitive Receiver: W-N1A Yau Ma Tei Catholic Primary School (Hoi Wang Road)

Noise Criteria: 70 (65)

Mitigation Measures Scenario

| Worksite | Activity | Period | PME | TM Ref. / | Unit Quiet | On-time, | Time | Quiet Plant | No. of | Total SWL | Distance | Distance | Facade | Barrier | Predicted | Total Predicted |
|----------|--|---------------------|---|-----------|------------|----------|------|-------------|--------|-----------|----------|----------|--------|---------|-----------|-----------------|
| S74W | Construction of Ventilation Adit at Segment 1, 2 | Jun 2022 - Nov 2022 | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 250 | -56 | 3 | 0 | 39 | 56 |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 250 | -56 | 3 | -5 | 52 | |
| | | | Concrete pump | CNP047 | 109 | 50 | -3 | 106 | 2 | 109 | 250 | -56 | 3 | -10 | 46 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 250 | -56 | 3 | -10 | 34 | |
| | | | Crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 250 | -56 | 3 | -5 | 41 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 250 | -56 | 3 | -5 | 45 | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 250 | -56 | 3 | -5 | 45 | |
| | | | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 4 | 112 | 250 | -56 | 3 | -10 | 50 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 60 | -2 | 83 | 4 | 89 | 250 | -56 | 3 | 0 | 36 | |
| | | | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 4 | 99 | 290 | -57 | 3 | -10 | 35 | |
| S75W | ELS and Excavation at Road B2/C2 | Jun 2022 - Nov 2022 | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 70 | -2 | 97 | 2 | 100 | 290 | -57 | 3 | -5 | 41 | 54 |
| | | | Excavator mounted with piling equipment | CNP167 | 114 | 60 | -2 | 112 | 1 | 112 | 290 | -57 | 3 | -5 | 53 | |
| | | | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 2 | 109 | 290 | -57 | 3 | -10 | 45 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 70 | -2 | 83 | 4 | 89 | 290 | -57 | 3 | 0 | 35 | |
| | | | Arc Welding Machine | CNP107 | 100 | 70 | -2 | 98 | 3 | 103 | 290 | -57 | 3 | -5 | 44 | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 290 | -57 | 3 | 0 | 37 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 290 | -57 | 3 | -5 | 51 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -2 | 107 | 1 | 107 | 290 | -57 | 3 | -10 | 43 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 290 | -57 | 3 | -10 | 32 | |
| | | | Crane Lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 290 | -57 | 3 | -5 | 40 | |
| S76W | Construction of Pile Cap, Pier and Deck at Road B2/C2 | Jun 2022 - Nov 2022 | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 290 | -57 | 3 | -5 | 44 | 54 |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 290 | -57 | 3 | -5 | 44 | |
| | | | Ventilation Fan | CNP241 | 108 | 80 | -1 | 107 | 4 | 113 | 290 | -57 | 3 | -10 | 49 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 80 | -1 | 84 | 4 | 90 | 290 | -57 | 3 | 0 | 36 | |
| | | | Generator | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 190 | -54 | 3 | 0 | 41 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 190 | -54 | 3 | -5 | 54 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -2 | 107 | 1 | 107 | 190 | -54 | 3 | -10 | 46 | |
| | | | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 2 | 96 | 190 | -54 | 3 | -10 | 35 | |
| | | | Crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 190 | -54 | 3 | -5 | 43 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 190 | -54 | 3 | -5 | 47 | |
| S77W | Construction of Noise Barrier at Road E/F | Jun 2022 - Nov 2022 | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 190 | -54 | 3 | -5 | 47 | 54 |
| | | | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 4 | 112 | 190 | -54 | 3 | -10 | 52 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 60 | -2 | 83 | 4 | 89 | 190 | -54 | 3 | 0 | 38 | |
| | | | Excavator | EPD-01145 | 99 | 70 | -2 | 97 | 2 | 100 | 190 | -54 | 3 | -5 | 45 | |
| | | | Generator | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 205 | -54 | 3 | 0 | 40 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 205 | -54 | 3 | -5 | 51 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -2 | 107 | 2 | 110 | 205 | -54 | 3 | -10 | 49 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 205 | -54 | 3 | -10 | 35 | |
| | | | Crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 205 | -54 | 3 | -5 | 43 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 205 | -54 | 3 | -5 | 47 | |
| S78W | Construction of Subway, Stair, Fire Separation Wall, Pile Cap, Foundation Wall at Segment 1, 2 | Jun 2022 - Nov 2022 | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 205 | -54 | 3 | -5 | 47 | 57 |
| | | | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 4 | 112 | 205 | -54 | 3 | -10 | 51 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 60 | -2 | 83 | 4 | 89 | 205 | -54 | 3 | 0 | 38 | |
| | | | Excavator | EPD-01145 | 99 | 50 | -3 | 96 | 2 | 99 | 205 | -54 | 3 | -5 | 43 | |
| | | | Generator | CNP021 | 90 | 60 | -2 | 88 | 2 | 91 | 205 | -54 | 3 | 0 | 40 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 205 | -54 | 3 | -5 | 51 | |
| | | | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 1 | 108 | 205 | -54 | 3 | -10 | 47 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 205 | -54 | 3 | -10 | 35 | |
| | | | Crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 205 | -54 | 3 | -5 | 43 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 205 | -54 | 3 | -5 | 47 | |
| S79W | Construction of Column at Segement 1, 2 | Jun 2022 - Nov 2022 | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 205 | -54 | 3 | -5 | 47 | 57 |
| | | | Ventilation Fan | CNP241 | 108 | 60 | -2 | 106 | 4 | 112 | 205 | -54 | 3 | -10 | 51 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 70 | -2 | 83 | 4 | 89 | 205 | -54 | 3 | 0 | 38 | |
| | | | Generator | CNP021 | 90 | 60 | -2 | 88 | 2 | 91 | 205 | -54 | 3 | 0 | 40 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 205 | -54 | 3 | -5 | 54 | |
| | | | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 1 | 108 | 205 | -54 | 3 | -10 | 47 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 205 | -54 | 3 | -10 | 35 | |
| | | | Crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 205 | -54 | 3 | -5 | 43 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 205 | -54 | 3 | -5 | 47 | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 205 | -54 | 3 | -5 | 47 | |

Build King - SKEC Joint Venture

Construction Noise Assessment

Period: 0700 to 1900 (except general holidays)

Noise Sensitive Receiver: W-N1A Yau Ma Tei Catholic Primary School (Hoi Wang Road)

Noise Criteria: 70 (65)

Mitigation Measures Scenario

| Worksite | Activity | Period | PME | TM Ref. / | Unit Quiet | On-time, | Time | Quiet Plant | No. of | Total SWL | Distance | Distance | Façade | Barrier | Predicted | Total Predicted |
|----------|--|---------------------|------------------------------------|-----------|------------|----------|------|-------------|--------|-----------|----------|----------|--------|---------|-----------|-----------------|
| S76W | Construction of Road Facilities at Segment 5 & 6 | Jun 2022 - Nov 2022 | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 205 | -54 | 3 | -5 | 54 | 57 |
| | | | Dump Truck with Grab | CNP069 | 105 | 70 | -2 | 103 | 2 | 106 | 205 | -54 | 3 | -5 | 50 | |
| | | | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 3 | 98 | 205 | -54 | 3 | -10 | 36 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 3 | 105 | 205 | -54 | 3 | -5 | 48 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 70 | -2 | 97 | 2 | 100 | 205 | -54 | 3 | -5 | 44 | |
| | | | Crane Lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 205 | -54 | 3 | -5 | 43 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -2 | 107 | 1 | 107 | 205 | -54 | 3 | -10 | 46 | |
| S77W | Construction of Column, Overhead Ventilation and Landscape Deck at Segement 3, 4 | Jun 2022 - Nov 2022 | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 220 | -55 | 3 | 0 | 40 | 57 |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 220 | -55 | 3 | -5 | 53 | |
| | | | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 1 | 108 | 220 | -55 | 3 | -10 | 46 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 220 | -55 | 3 | -10 | 35 | |
| | | | crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 220 | -55 | 3 | -5 | 42 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 220 | -55 | 3 | -5 | 46 | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 220 | -55 | 3 | -5 | 46 | |
| S78W | Construction of Pile Cap, Foundation Wall and Column at Segment 3 & 4 | Jun 2022 - Nov 2022 | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 4 | 112 | 220 | -55 | 3 | -10 | 51 | 57 |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 70 | -2 | 83 | 4 | 89 | 220 | -55 | 3 | 0 | 38 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 190 | -54 | 3 | -5 | 51 | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 190 | -54 | 3 | 0 | 41 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 190 | -54 | 3 | -5 | 54 | |
| | | | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 1 | 108 | 190 | -54 | 3 | -10 | 47 | |
| | | | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 2 | 96 | 190 | -54 | 3 | -10 | 35 | |
| S81W | Backfilling and removing ELS at Ventilation Adit Ch. 60 to 90 | Dec 2022 - Oct 2023 | crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 190 | -54 | 3 | -5 | 43 | 58 |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 190 | -54 | 3 | -5 | 47 | |
| | | | Piling Crane mounted auger | BS D4-37 | 111 | 60 | -2 | 109 | 2 | 112 | 190 | -54 | 3 | -10 | 51 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 70 | -2 | 97 | 1 | 97 | 190 | -54 | 3 | -5 | 42 | |
| | | | Generator | EPD-07338 | 95 | 50 | -3 | 92 | 4 | 98 | 290 | -57 | 3 | -10 | 34 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 70 | -2 | 97 | 2 | 100 | 290 | -57 | 3 | -5 | 41 | |
| | | | Ventilation Fan | CNP241 | 108 | 60 | -2 | 106 | 4 | 112 | 290 | -57 | 3 | -10 | 48 | |
| S82W | Construction of Ventilation Adit at Pile No. 42 | Dec 2022 - Oct 2023 | Water Pump, Submersible (Electric) | CNP283 | 85 | 50 | -3 | 82 | 4 | 88 | 290 | -57 | 3 | 0 | 34 | 50 |
| | | | Crane Lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 290 | -57 | 3 | -5 | 40 | |
| | | | Flame Cutting Machine | CNP107 | 100 | 90 | 0 | 100 | 2 | 103 | 290 | -57 | 3 | -5 | 43 | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 265 | -56 | 3 | 0 | 38 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 265 | -56 | 3 | -5 | 51 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -2 | 107 | 2 | 110 | 265 | -56 | 3 | -10 | 46 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 265 | -56 | 3 | -10 | 33 | |
| S85W | Construction of Structure II at Road D | Dec 2022 - Oct 2023 | Crane Mobile | EPD-07994 | 101 | 70 | -2 | 99 | 1 | 99 | 265 | -56 | 3 | -5 | 41 | 55 |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 265 | -56 | 3 | -5 | 44 | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 265 | -56 | 3 | -5 | 45 | |
| | | | Ventilation Fan | CNP241 | 108 | 80 | -1 | 107 | 4 | 113 | 265 | -56 | 3 | -10 | 50 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 70 | -2 | 83 | 4 | 89 | 265 | -56 | 3 | 0 | 36 | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 240 | -56 | 3 | 0 | 39 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 240 | -56 | 3 | -5 | 52 | |
| S86W | Construction of Landscape Deck at Segment 1,2 | Dec 2022 - Oct 2023 | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 1 | 108 | 240 | -56 | 3 | -10 | 45 | 56 |
| | | | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 2 | 96 | 240 | -56 | 3 | -10 | 33 | |
| | | | Crane Mobile | EPD-07994 | 101 | 70 | -2 | 99 | 1 | 99 | 240 | -56 | 3 | -5 | 42 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 240 | -56 | 3 | -5 | 45 | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 240 | -56 | 3 | -5 | 45 | |
| | | | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 2 | 109 | 240 | -56 | 3 | -10 | 47 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 60 | -2 | 83 | 2 | 86 | 240 | -56 | 3 | 0 | 33 | |
| S87W | Construction of Landscape Deck at Segment 1,2 | Dec 2022 - Oct 2023 | Excavator | EPD-01145 | 99 | 50 | -3 | 96 | 2 | 99 | 240 | -56 | 3 | -5 | 41 | 56 |
| | | | Bar Bender and Cutter | CNP021 | 90 | 50 | -3 | 87 | 2 | 90 | 245 | -56 | 3 | 0 | 37 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 245 | -56 | 3 | -5 | 52 | |
| | | | Concrete pump | CNP047 | 109 | 70 | -2 | 107 | 1 | 107 | 245 | -56 | 3 | -10 | 45 | |
| | | | Generator | EPD-07338 | 95 | 80 | -1 | 94 | 2 | 97 | 245 | -56 | 3 | -10 | 34 | |
| | | | Crane Mobile | EPD-07994 | 101 | 70 | -2 | 99 | 1 | 99 | 245 | -56 | 3 | -5 | 42 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 1 | 100 | 245 | -56 | 3 | -5 | 42 | |
| S88W | Construction of Landscape Deck at Segment 1,2 | Dec 2022 - Oct 2023 | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 245 | -56 | 3 | -5 | 45 | 56 |
| | | | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 4 | 112 | 245 | -56 | 3 | -10 | 50 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 60 | -2 | 83 | 4 | 89 | 245 | -56 | 3 | 0 | 36 | |

Build King - SKEC Joint Venture

Construction Noise Assessment

Period: 0700 to 1900 (except general holidays)

Noise Sensitive Receiver: W-N1A Yau Ma Tei Catholic Primary School (Hoi Wang Road)

Noise Criteria: 70 (65)

Mitigation Measures Scenario

| Worksite | Activity | Period | PME | TM Ref. / | Unit Quiet | On-time, | Time | Quiet Plant | No. of | Total SWL | Distance | Distance | Facade | Barrier | Predicted | Total Predicted |
|-----------------|--------------------------------------|---------------------|------------------------------------|-----------|------------|----------|------|-------------|--------|-----------|----------|----------|--------|---------|-----------|-----------------|
| S86W | Road Paving Works at Segment 1, 2 | Dec 2022 - Oct 2023 | Asphalt Paver | EPD-01226 | 104 | 70 | -2 | 102 | 1 | 102 | 245 | -56 | 3 | -5 | 45 | 51 |
| | | | Dump Truck with Grab | CNP069 | 105 | 70 | -2 | 103 | 2 | 106 | 245 | -56 | 3 | -5 | 49 | |
| | | | Generator | EPD-07338 | 95 | 60 | -2 | 93 | 3 | 98 | 245 | -56 | 3 | -10 | 35 | |
| | | | Road Roller | EPD-01183 | 97 | 60 | -2 | 95 | 2 | 98 | 245 | -56 | 3 | -5 | 40 | |
| | Installation of Façade System | Dec 2022 - Oct 2023 | Generator | EPD-07338 | 95 | 50 | -3 | 92 | 2 | 95 | 245 | -56 | 3 | -10 | 32 | 51 |
| | | | crane lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 245 | -56 | 3 | -5 | 41 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 245 | -56 | 3 | -5 | 45 | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 245 | -56 | 3 | -5 | 45 | |
| | | | Ventilation Fan | CNP241 | 108 | 50 | -3 | 105 | 2 | 108 | 245 | -56 | 3 | -10 | 45 | |
| | Construction of E&M Works | Dec 2022 - Oct 2023 | Crane Lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 245 | -56 | 3 | -5 | 41 | 47 |
| | | | Ventilation Fan | CNP241 | 108 | 60 | -2 | 106 | 2 | 109 | 245 | -56 | 3 | -10 | 46 | |
| S87W | Construction of Fire Separation Wall | Dec 2022 - Oct 2023 | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 230 | -55 | 3 | 0 | 39 | 56 |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 230 | -55 | 3 | -5 | 53 | |
| | | | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 2 | 111 | 230 | -55 | 3 | -10 | 49 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 230 | -55 | 3 | -10 | 34 | |
| | | | Crane Mobile | EPD-07994 | 101 | 60 | -2 | 99 | 1 | 99 | 230 | -55 | 3 | -5 | 42 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 230 | -55 | 3 | -5 | 46 | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 230 | -55 | 3 | -5 | 46 | |
| | | | Ventilation Fan | CNP241 | 108 | 70 | -2 | 106 | 2 | 109 | 230 | -55 | 3 | -10 | 47 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 60 | -2 | 83 | 4 | 89 | 230 | -55 | 3 | 0 | 37 | |
| | | | Excavator | EPD-01145 | 99 | 70 | -2 | 97 | 2 | 100 | 230 | -55 | 3 | -5 | 43 | |
| | Construction of E&M Works | Dec 2022 - Oct 2023 | Crane Lorry | BS D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 230 | -55 | 3 | -5 | 42 | 47 |
| | | | Ventilation Fan | CNP241 | 108 | 50 | -3 | 105 | 2 | 108 | 230 | -55 | 3 | -10 | 46 | |
| S88Wa, S88Wb | Construction of Landscape, Staircase | Dec 2022 - Oct 2023 | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 170 | -53 | 3 | 0 | 42 | 59 |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 170 | -53 | 3 | -5 | 55 | |
| | | | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 2 | 111 | 170 | -53 | 3 | -10 | 51 | |
| | | | Generator | EPD-07338 | 95 | 70 | -2 | 93 | 2 | 96 | 170 | -53 | 3 | -10 | 37 | |
| | | | Crane Mobile | EPD-07994 | 101 | 70 | -2 | 99 | 1 | 99 | 170 | -53 | 3 | -5 | 45 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 170 | -53 | 3 | -5 | 48 | |
| | | | Saw, Circular Wood | BS D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 170 | -53 | 3 | -5 | 48 | |
| | | | Ventilation Fan | CNP241 | 108 | 100 | 0 | 108 | 2 | 111 | 170 | -53 | 3 | -10 | 51 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 4 | 91 | 170 | -53 | 3 | 0 | 41 | |

Build King - SKEC Joint Venture

Construction Noise Assessment

Period: 07/01 to 1900 (except general holidays)

Noise Sensitive Receiver: W-N25A Prosperous Garden Block 1

Mitigation Measures Scenario

Noise Criteria: 75

| Worksite | Activity | Period | PME | TM Ref. / other Ref. | Unit Quiet Plant SWL | On-time, % | Time Factor | Quiet Plant with on-time % | No. of plants | Total SWL | Distance from Noxious Sources, m | Distance Attenuation | Facade Correction, dB(A) | Barrier Correction, dB(A) | Predicted Noise Level, dB(A) | Total Predicted Noise Level for each group, dB(A) |
|--------------|--|---------------------|---|----------------------|----------------------|------------|-------------|----------------------------|---------------|-----------|----------------------------------|----------------------|--------------------------|---------------------------|------------------------------|---|
| S6W | Pre-drilling works at Box Structure E | May 2019 - Aug 2019 | Drilling Rig (Rotary Type) | CNP167 | 114 | 80 | -1 | 113 | 3 | 118 | 265 | -56 | 3 | -10 | 54 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 95 | 3 | 100 | 265 | -56 | 3 | -10 | 36 | |
| | | | Pumping Machine | CNP283 | 85 | 100 | 0 | 85 | 3 | 90 | 265 | -56 | 3 | 0 | 36 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 3 | 90 | 265 | -56 | 3 | 0 | 36 | |
| | | | Crane Lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 265 | -56 | 3 | -5 | 40 | |
| | | | Grout Mixer | CNP105 | 90 | 70 | -2 | 88 | 1 | 88 | 235 | -56 | 3 | -5 | 30 | 55 |
| S7W | Pre-drilling works at Bridge G | May 2019 - Aug 2019 | Drilling Rig (Rotary Type) | CNP167 | 114 | 80 | -1 | 113 | 3 | 118 | 235 | -56 | 3 | -10 | 55 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 95 | 3 | 100 | 235 | -56 | 3 | -10 | 37 | |
| | | | Pumping Machine | CNP283 | 85 | 100 | 0 | 85 | 3 | 90 | 235 | -56 | 3 | 0 | 37 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 3 | 90 | 235 | -56 | 3 | 0 | 37 | |
| | | | Crane Lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 235 | -56 | 3 | -5 | 41 | |
| | | | Grout Mixer | CNP105 | 90 | 70 | -2 | 88 | 1 | 88 | 235 | -56 | 3 | -5 | 31 | 56 |
| S10W | ELS & Excavation at Portion 8 | Jul 2019 - Oct 2019 | Excavator, Loader, Wheeled/Tracked | EPD-01145 | 95 | 100 | -2 | 97 | 2 | 100 | 230 | -56 | 3 | -5 | 43 | |
| | | | Excavator mounted with piling equipment | CNP167 | 114 | 80 | -1 | 113 | 2 | 116 | 230 | -56 | 3 | -5 | 59 | |
| | | | Ventilation Fan | CNP241 | 108 | 100 | 0 | 108 | 4 | 114 | 230 | -56 | 3 | -10 | 52 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 4 | 91 | 230 | -56 | 3 | 0 | 39 | |
| | | | Arc Welding Machine | CNP107 | 100 | 70 | -2 | 98 | 3 | 102 | 230 | -56 | 3 | -5 | 46 | 60 |
| | | | Excavator, Loader, Wheeled/Tracked | EPD-01145 | 99 | 100 | -2 | 97 | 1 | 97 | 230 | -56 | 3 | -5 | 40 | |
| | | | Asphalt Paver | EPD-01226 | 104 | 80 | -1 | 103 | 1 | 103 | 280 | -56 | 3 | -5 | 44 | |
| S12W | Construction of Temporary Road Subbase, Roadbase and Surfacing | Jul 2019 - Oct 2019 | Dump Truck with Grab | CNP069 | 105 | 100 | -2 | 103 | 2 | 105 | 280 | -56 | 3 | -5 | 48 | |
| | | | Rock Roller | EPD-01183 | 95 | 100 | -2 | 98 | 3 | 100 | 280 | -57 | 3 | -10 | 38 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 95 | 3 | 100 | 230 | -56 | 3 | -10 | 38 | |
| | | | Pumping Machine | CNP283 | 85 | 100 | 0 | 85 | 3 | 90 | 230 | -56 | 3 | 0 | 38 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 3 | 90 | 230 | -56 | 3 | 0 | 38 | |
| | | | Crane Lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 2 | 102 | 230 | -56 | 3 | -5 | 45 | |
| | | | Generator | CNP105 | 90 | 70 | -2 | 88 | 1 | 88 | 230 | -56 | 3 | -5 | 31 | 52 |
| S16Wa, S16Wb | Pre-drilling works at Road B2/C2 & G | Aug 2019 - Dec 2019 | Excavator, Loader, Wheeled/Tracked | EPD-01145 | 99 | 100 | -2 | 97 | 1 | 97 | 255 | -56 | 3 | -5 | 39 | |
| | | | Excavator mounted with piling equipment | CNP167 | 114 | 80 | -1 | 113 | 1 | 113 | 255 | -56 | 3 | -5 | 55 | |
| | | | Ventilation Fan | CNP241 | 108 | 100 | 0 | 108 | 2 | 111 | 255 | -56 | 3 | -10 | 48 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 2 | 93 | 255 | -56 | 3 | 0 | 38 | |
| | | | Arc Welding Machine | EPD-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 255 | -56 | 3 | -10 | 35 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPD-01145 | 99 | 100 | -2 | 97 | 1 | 97 | 255 | -56 | 3 | -5 | 39 | 56 |
| S18W | ELS and Excavation at Box Structure E | Jul 2019 - Oct 2019 | Excavator mounted with piling equipment | CNP167 | 114 | 80 | -1 | 113 | 1 | 113 | 255 | -56 | 3 | -5 | 55 | |
| | | | Ventilation Fan | CNP241 | 108 | 100 | 0 | 108 | 2 | 111 | 255 | -56 | 3 | -10 | 48 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 2 | 93 | 255 | -56 | 3 | 0 | 38 | |
| | | | Crane Lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 2 | 102 | 255 | -56 | 3 | -5 | 43 | |
| | | | Generator | CNP105 | 90 | 70 | -2 | 88 | 1 | 88 | 295 | -57 | 3 | 0 | 34 | |
| | | | Bar Bender and Cutter | CNP201 | 90 | 70 | -2 | 88 | 1 | 88 | 295 | -57 | 3 | -5 | 47 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 295 | -57 | 3 | -5 | 44 | |
| | | | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 2 | 108 | 295 | -57 | 3 | -10 | 44 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 295 | -57 | 3 | -10 | 31 | 51 |
| S22W | Construction of Base Slab at Ch. 130 to 185 | Nov 2019 - Mar 2020 | Excavator, Loader, Wheeled/Tracked | EPD-01145 | 99 | 100 | -2 | 97 | 1 | 97 | 255 | -56 | 3 | -5 | 39 | |
| | | | Excavator mounted with piling equipment | CNP167 | 114 | 80 | -1 | 113 | 1 | 113 | 255 | -56 | 3 | -5 | 55 | |
| | | | Ventilation Fan | CNP241 | 108 | 100 | 0 | 108 | 2 | 111 | 255 | -56 | 3 | -10 | 48 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 2 | 93 | 255 | -56 | 3 | 0 | 38 | |
| | | | Crane lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 2 | 102 | 255 | -56 | 3 | -5 | 43 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 95 | 4 | 101 | 295 | -57 | 3 | -10 | 37 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPD-01145 | 99 | 100 | -2 | 97 | 2 | 100 | 295 | -57 | 3 | -5 | 41 | |
| S27W | ELS and Excavation at Road D | Nov 2019 - Mar 2020 | Excavator mounted with piling equipment | CNP167 | 114 | 80 | -1 | 113 | 2 | 116 | 255 | -57 | 3 | -5 | 41 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 95 | 2 | 108 | 255 | -57 | 3 | -5 | 57 | |
| | | | Pumping Machine | CNP283 | 85 | 100 | 0 | 85 | 2 | 93 | 255 | -57 | 3 | -10 | 50 | |
| | | | Arc Welding Machine | CNP107 | 100 | 70 | -2 | 98 | 3 | 103 | 295 | -57 | 3 | -5 | 44 | |
| S28W | Construction of Pile Cap at Road G | Nov 2019 - Mar 2020 | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 230 | -56 | 3 | -5 | 50 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -1 | 108 | 2 | 107 | 230 | -56 | 3 | -10 | 46 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 230 | -56 | 3 | -10 | 37 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPD-01145 | 99 | 100 | -2 | 97 | 1 | 97 | 230 | -56 | 3 | -5 | 44 | |
| S29W | Construction of Box Structure E | Nov 2019 - Mar 2020 | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 108 | 255 | -56 | 3 | -5 | 38 | |
| | | | Concrete Bending and Cutter | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 255 | -56 | 3 | -5 | 51 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 255 | -56 | 3 | -5 | 53 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -1 | 108 | 2 | 108 | 255 | -56 | 3 | -10 | 45 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 95 | 2 | 106 | 255 | -56 | 3 | -10 | 35 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPD-01145 | 99 | 100 | -2 | 97 | 1 | 97 | 255 | -56 | 3 | -5 | 41 | |
| S31W | Construction of Temporary Road Subbase, Roadbase and Surfacing | Apr 2020 - Nov 2020 | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 108 | 265 | -56 | 3 | -5 | 47 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -2 | 107 | 2 | 108 | 265 | -56 | 3 | -5 | 50 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 95 | 2 | 106 | 265 | -56 | 3 | -10 | 38 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPD-01145 | 99 | 100 | -2 | 97 | 1 | 97 | 265 | -56 | 3 | -5 | 41 | |
| S32W | Construction of Abutment wall | Apr 2020 - Nov 2020 | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 108 | 265 | -56 | 3 | -5 | 48 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -2 | 107 | 2 | 108 | 265 | -56 | 3 | -5 | 50 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 95 | 2 | 106 | 265 | -56 | 3 | -10 | 38 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPD-01145 | 99 | 100 | -2 | 97 | 1 | 97 | 265 | -56 | 3 | -5 | 40 | |
| S38W | Construction of Pile Cap and Piers at Road G | Apr 2020 - Nov 2020 | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 1 | 107 | 220 | -56 | 3 | -5 | 50 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -2 | 107 | 2 | 110 | 220 | -56 | 3 | -5 | 53 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 220 | -56 | 3 | -10 | 36 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPD-01145 | 99 | 100 | -2 | 97 | 1 | 97 | 220 | -56 | 3 | -5 | 42 | |
| S47W | Construction of Abutment Wall (AW01 to AW05) | Dec 2020 - Jun 2021 | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 230 | -56 | 3 | -5 | 53 | |
| | | | Concrete pump | CNP047 | 109 | 60 | -2 | 107 | 2 | 110 | 230 | -56 | 3 | -5 | 53 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 230 | -56 | 3 | -10 | 36 | |
| | | | Crane Mobile | EPD-07994 | 101 | 70 | -2 | 99 | 1 | 99 | 230 | -56 | 3 | -5 | 41 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 230 | -56 | 3 | -5 | 45 | |
| | | | Concrete Circular Wood | BS-D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 230 | -56 | 3 | -5 | 46 | |
| | | | Ventilation Fan | CNP241 | 108 | 100 | 0 | 108 | 4 | 114 | 230 | -56 | 3 | -10 | 36 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 4 | 91 | 230 | -56 | 3 | 0 | 39 | 57 |
| S48W | Construction of Bridge Deck at Road G | Dec 2020 - Jun 2021 | Bar Bender and Cutter | CNP201 | 90 | 70 | -2 | 88 | 2 | 91 | 230 | -55 | 3 | 0 | 38 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 230 | -55 | 3 | 0 | 40 | |
| | | </ | | | | | | | | | | | | | | |

Build King - SKEC Joint Venture

Construction Noise Assessment

Period: 0700 to 1900 (except general holidays)

Noise Sensitive Receiver: W-N25A Prosperous Garden Block 1

Mitigation Measures Scenario

Noise Criteria: 75

| Worksite | Activity | Period | PME | TM Ref. / other Ref. | Unit Quiet Plant SWL | On-time, % | Time Factor | Quiet Plant with on-time % | No. of plants | Total SWL | Distance from National Sources, m | Distance Attenuation | Facade Correction,d B(A) | Barrier Correction,d B(A) | Predicted Noise Level, dB(A) | Total Predicted Noise Level for each group, dB(A) |
|----------|--|---------------------|------------------------------------|----------------------|----------------------|------------|-------------|----------------------------|---------------|-----------|-----------------------------------|----------------------|--------------------------|---------------------------|------------------------------|---|
| S66W | Construction of Subway at Segment 1, 2 | Mar 2022 - May 2022 | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 265 | -56 | 3 | 0 | 38 | 56 |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 265 | -56 | 3 | -5 | 51 | |
| | | | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 2 | 111 | 265 | -56 | 3 | -10 | 48 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 265 | -56 | 3 | -10 | 35 | |
| | | | crane lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 265 | -56 | 3 | -5 | 40 | |
| | | | Saw, Circular Wood | CNP021 | 90 | 50 | -2 | 100 | 2 | 103 | 265 | -56 | 3 | -5 | 44 | |
| | | | Ventilation Fan | CNP241 | 108 | 100 | 0 | 108 | 4 | 114 | 265 | -56 | 3 | -5 | 45 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 4 | 91 | 265 | -56 | 3 | 0 | 38 | |
| S68W | ELS and Excavation at Segment 3, 4 | Mar 2022 - May 2022 | Excavator | EPD-01145 | 95 | 70 | -2 | 95 | 4 | 101 | 280 | -57 | 3 | -10 | 37 | 49 |
| | | | Excavator, Loader, Wheeled/Tracked | EPD-01145 | 95 | 70 | -2 | 97 | 2 | 100 | 280 | -57 | 3 | -5 | 42 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 100 | 1 | 103 | 230 | -57 | 3 | -10 | 44 | |
| | | | Poker, Vibratory, Hand Held | CNP107 | 100 | 60 | -2 | 98 | 3 | 103 | 280 | -57 | 3 | -5 | 44 | |
| | | | Saw, Circular Wood | BS-D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 220 | -55 | 3 | -5 | 46 | |
| | | | Ventilation Fan | CNP241 | 108 | 100 | 0 | 108 | 4 | 114 | 220 | -55 | 3 | -10 | 52 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 4 | 91 | 220 | -55 | 3 | 0 | 39 | |
| | | | Excavator | EPD-01145 | 95 | 70 | -2 | 97 | 2 | 100 | 220 | -55 | 3 | -5 | 38 | |
| S75W | Construction of Noise Barrier at Road E/F | Jun 2022 - Nov 2022 | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 220 | -55 | 3 | 0 | 40 | 58 |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 220 | -55 | 3 | -5 | 53 | |
| | | | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 2 | 111 | 220 | -55 | 3 | -10 | 49 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 220 | -55 | 3 | -10 | 48 | |
| | | | crane lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 265 | -56 | 3 | -5 | 40 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 220 | -55 | 3 | -5 | 44 | |
| | | | Saw, Circular Wood | BS-D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 220 | -55 | 3 | -5 | 46 | |
| | | | Ventilation Fan | CNP241 | 108 | 100 | 0 | 108 | 4 | 114 | 220 | -55 | 3 | -10 | 52 | |
| S76W | Construction of Subway, Stair, Fire Separation Wall, Pile Cap, Foundation Wall at Segment 1, 2 | Jun 2022 - Nov 2022 | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 4 | 91 | 220 | -55 | 3 | -5 | 38 | 56 |
| | | | Excavator | EPD-01145 | 95 | 70 | -2 | 97 | 2 | 100 | 265 | -56 | 3 | 0 | 42 | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 265 | -56 | 3 | 0 | 38 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 265 | -56 | 3 | -5 | 51 | |
| | | | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 2 | 111 | 265 | -56 | 3 | -10 | 48 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 265 | -56 | 3 | -10 | 40 | |
| | | | crane lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 265 | -56 | 3 | -5 | 40 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 265 | -56 | 3 | -5 | 44 | |
| S77W | Construction of Column at Segement 1, 2 | Jun 2022 - Nov 2022 | Saw, Circular Wood | CNP241 | 108 | 100 | 0 | 108 | 4 | 114 | 265 | -56 | 3 | -10 | 51 | 56 |
| | | | Ventilation Fan | CNP241 | 108 | 100 | 0 | 85 | 4 | 91 | 265 | -56 | 3 | 0 | 38 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 4 | 91 | 265 | -56 | 3 | -5 | 51 | |
| | | | Excavator | EPD-01145 | 95 | 70 | -2 | 97 | 2 | 100 | 265 | -56 | 3 | 0 | 42 | |
| | | | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 265 | -56 | 3 | 0 | 38 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 265 | -56 | 3 | -5 | 51 | |
| | | | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 2 | 111 | 265 | -56 | 3 | -10 | 48 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 265 | -56 | 3 | -10 | 40 | |
| S77W | Construction of Road Facilities at Segment 5 & 6 | Jun 2022 - Nov 2022 | crane lorry | BS-D7-114 | 101 | 60 | -2 | 97 | 2 | 100 | 265 | -56 | 3 | -5 | 42 | 55 |
| | | | Crane Lorry | CNP021 | 90 | 50 | -1 | 108 | 2 | 103 | 265 | -56 | 3 | 0 | 45 | |
| | | | Dump Truck with Grab | CNP069 | 103 | 70 | -2 | 103 | 2 | 106 | 265 | -56 | 3 | -5 | 48 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 95 | 3 | 100 | 265 | -56 | 3 | -10 | 36 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 3 | 105 | 265 | -56 | 3 | -5 | 46 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 99 | 70 | -2 | 97 | 2 | 100 | 265 | -56 | 3 | -5 | 42 | |
| | | | Crane Lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 265 | -56 | 3 | -5 | 40 | |
| | | | Concrete Pump | CNP044 | 109 | 50 | -1 | 108 | 2 | 103 | 265 | -56 | 3 | -10 | 45 | |
| S86W | Construction of Column, Overhead Ventilation and Landscape Deck at Segment 3, 4 | Jun 2022 - Nov 2022 | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 265 | -56 | 3 | 0 | 37 | 55 |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 290 | -57 | 3 | 0 | 51 | |
| | | | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 2 | 111 | 290 | -57 | 3 | -10 | 47 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 290 | -57 | 3 | -10 | 34 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 290 | -57 | 3 | -5 | 40 | |
| | | | Saw, Circular Wood | BS-D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 290 | -57 | 3 | -5 | 44 | |
| | | | Ventilation Fan | CNP241 | 108 | 100 | 0 | 108 | 4 | 114 | 290 | -57 | 3 | -10 | 50 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 4 | 91 | 290 | -57 | 3 | 0 | 37 | |
| S86W | Road Paving Works at Segment 1, 2 | Dec 2022 - Oct 2023 | Asphalt Paver | EPD-01226 | 104 | 50 | -1 | 103 | 1 | 103 | 265 | -56 | 3 | -5 | 43 | 56 |
| | | | Crane Lorry with Grab | CNP021 | 105 | 70 | -2 | 103 | 2 | 106 | 265 | -56 | 3 | -5 | 48 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 265 | -56 | 3 | -10 | 36 | |
| | | | Road Roller | EPD-01183 | 97 | 60 | -2 | 95 | 2 | 98 | 265 | -56 | 3 | -5 | 39 | |
| | | | Generator | EPD-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 265 | -56 | 3 | -10 | 35 | |
| | | | crane lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 265 | -56 | 3 | -5 | 40 | |
| | | | Poker, Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 265 | -56 | 3 | -5 | 44 | |
| | | | Saw, Circular Wood | BS-D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 265 | -56 | 3 | -5 | 45 | |
| S86W | Installation of Façade System | Dec 2022 - Oct 2023 | Ventilation Fan | CNP241 | 108 | 100 | 0 | 108 | 4 | 114 | 265 | -56 | 3 | -10 | 51 | 53 |
| | | | Crane Lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 265 | -56 | 3 | -5 | 40 | |
| | | | Construction of E&M Works | EPD-01145 | 108 | 100 | 0 | 108 | 4 | 114 | 265 | -56 | 3 | -10 | 51 | |
| | | | Ventilation Fan | CNP241 | 108 | 100 | 0 | 108 | 4 | 114 | 265 | -56 | 3 | -10 | 51 | |

Build King - SKEC Joint Venture
 Construction Activities
 Period: 07/00 to 10/00 (except general holidays)
 Noise Sensitive Receiver: W-P11 The Coronation (West Façade)
 Mitigation Measures Scenario

Noise Criteria: 75

| Worksite | Activity | Period | PME | TM Ref. / other Ref. | Plant SWL | On-time, % | Time Factor | Quiet Plant SWL with on-time % | No. of plants | Total SWL | Distance from National Sources, m | Distance Attenuation | Facade Ctrd, dB(A) | Barrier Ctrd, dB(A) | Predicted Noise Level, dB(A) | Total Predicted Noise Level for each group, dB(A) |
|------------------|--|---------------------|--|----------------------|-----------|------------|-------------|--------------------------------|---------------|-----------|-----------------------------------|----------------------|--------------------|---------------------|------------------------------|---|
| S1W | Construction of Temporary Road Subbase, Roadbase and Surfacing | Feb 2019 - Jun 2019 | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 275 | -57 | 3 | -5 | 51 | 54 |
| | | | Dump Truck with Grab | CNP049 | 100 | 70 | -2 | 103 | 2 | 106 | 275 | -57 | 3 | -5 | 48 | |
| | | | Generator | CNP103 | 95 | 100 | 0 | 96 | 3 | 100 | 275 | -57 | 3 | -10 | 36 | |
| | | | Poker Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 3 | 105 | 275 | -57 | 3 | -5 | 46 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01145 | 98 | 100 | 0 | 98 | 1 | 103 | 275 | -57 | 3 | -5 | 52 | |
| | | Feb 2019 - Jun 2019 | Concrete mixer | CNP047 | 100 | 80 | -2 | 99 | 1 | 108 | 275 | -57 | 3 | -5 | 40 | 50 |
| | | | Excavator/Loader | CNP048 | 100 | 80 | -1 | 108 | 1 | 108 | 275 | -57 | 3 | -10 | 44 | |
| | | | Dump Truck with Grab | CNP069 | 100 | 70 | -2 | 103 | 2 | 106 | 275 | -57 | 3 | -5 | 48 | |
| | | | Generator | CNP103 | 95 | 100 | 0 | 96 | 3 | 100 | 275 | -57 | 3 | -10 | 36 | |
| | | | Asphalt Paver | EPD-01126 | 104 | 80 | -1 | 103 | 1 | 103 | 240 | -56 | 3 | -5 | 45 | |
| S2W | Construction of Temporary Road Subbase, Roadbase and Surfacing | Feb 2019 - Jun 2019 | Crane Lorry | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 240 | -56 | 3 | -5 | 49 | 51 |
| | | | Breaker, Excavator Mounted (Hydraulic) | BS-D6-13 | 110 | 80 | 1 | 99 | 3 | 114 | 95 | -48 | 3 | -5 | 64 | |
| | | | Dump Truck with Grab | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 240 | -56 | 3 | -5 | 49 | |
| | | | Generator | CNP103 | 95 | 100 | 0 | 96 | 3 | 100 | 240 | -56 | 3 | -10 | 36 | |
| | | | Excavator/Loader | EPD-01146 | 99 | 101 | 50 | 3 | 98 | 2 | 101 | 95 | -48 | 3 | -5 | 51 |
| S3W | Utility Division | Feb 2019 - Jun 2019 | Crane Lorry | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 240 | -56 | 3 | -5 | 49 | 66 |
| | | | Breaker, Excavator Mounted (Hydraulic) | BS-D6-13 | 110 | 80 | 1 | 99 | 3 | 114 | 95 | -48 | 3 | -5 | 64 | |
| | | | Dump Truck with Grab | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 240 | -56 | 3 | -5 | 49 | |
| | | | Generator | CNP103 | 95 | 100 | 0 | 96 | 3 | 100 | 240 | -56 | 3 | -10 | 36 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPD-01146 | 99 | 101 | 50 | 3 | 98 | 2 | 101 | 95 | -48 | 3 | -5 | 51 |
| S5W | Construction of Box Culvert | Feb 2019 - Jun 2019 | Crane Lorry | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 240 | -56 | 3 | -5 | 49 | 61 |
| | | | Breaker, Excavator Mounted (Hydraulic) | BS-D6-13 | 110 | 80 | 1 | 99 | 3 | 114 | 95 | -48 | 3 | -5 | 64 | |
| | | | Dump Truck with Grab | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 240 | -56 | 3 | -5 | 49 | |
| | | | Generator | CNP103 | 95 | 100 | 0 | 96 | 3 | 100 | 240 | -56 | 3 | -10 | 36 | |
| | | | Excavator/Loader, Hand Held | EPD-01146 | 99 | 101 | 50 | 3 | 98 | 2 | 101 | 95 | -48 | 3 | -5 | 51 |
| S6W | Dillinga Rio (Rotary Type) | May 2019 - Aug 2019 | Crane Lorry | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 240 | -56 | 3 | -5 | 49 | 55 |
| | | | Breaker, Excavator Mounted (Hydraulic) | BS-D6-13 | 110 | 80 | 1 | 99 | 3 | 114 | 95 | -48 | 3 | -5 | 64 | |
| | | | Dump Truck with Grab | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 240 | -56 | 3 | -5 | 49 | |
| | | | Generator | CNP103 | 95 | 100 | 0 | 96 | 3 | 100 | 240 | -56 | 3 | -10 | 36 | |
| | | | Excavator/Loader | EPD-01146 | 99 | 101 | 50 | 3 | 98 | 2 | 101 | 95 | -48 | 3 | -5 | 51 |
| S7W | Pre-drilling works at Bridge G | May 2019 - Aug 2019 | Crane Lorry | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 240 | -56 | 3 | -5 | 49 | 50 |
| | | | Breaker, Excavator Mounted (Hydraulic) | BS-D6-13 | 110 | 80 | 1 | 99 | 3 | 114 | 95 | -48 | 3 | -5 | 64 | |
| | | | Dump Truck with Grab | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 240 | -56 | 3 | -5 | 49 | |
| | | | Generator | CNP103 | 95 | 100 | 0 | 96 | 3 | 100 | 240 | -56 | 3 | -10 | 36 | |
| | | | Excavator/Loader | EPD-01146 | 99 | 101 | 50 | 3 | 98 | 2 | 101 | 95 | -48 | 3 | -5 | 51 |
| S8Wa, S8Wb, S8Wc | Pre-drilling works at Segment 1 to 4, 7 to 8, 10 to 11 | Mar 2019 - Dec 2019 | Crane Lorry | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 240 | -56 | 3 | -5 | 49 | 68 |
| | | | Breaker, Excavator Mounted (Hydraulic) | BS-D6-13 | 110 | 80 | 1 | 99 | 3 | 114 | 95 | -48 | 3 | -5 | 64 | |
| | | | Dump Truck with Grab | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 240 | -56 | 3 | -5 | 49 | |
| | | | Generator | CNP103 | 95 | 100 | 0 | 96 | 3 | 100 | 240 | -56 | 3 | -10 | 36 | |
| | | | Excavator/Loader | EPD-01146 | 99 | 101 | 50 | 3 | 98 | 2 | 101 | 95 | -48 | 3 | -5 | 51 |
| S9W | Temporary Support and Protection at Existing CLP Cables | Feb 2019 - Jun 2019 | Crane Lorry | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 240 | -56 | 3 | -5 | 49 | 62 |
| | | | Breaker, Excavator Mounted (Hydraulic) | BS-D6-13 | 110 | 80 | 1 | 99 | 3 | 114 | 95 | -48 | 3 | -5 | 64 | |
| | | | Dump Truck with Grab | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 240 | -56 | 3 | -5 | 49 | |
| | | | Generator | CNP103 | 95 | 100 | 0 | 96 | 3 | 100 | 240 | -56 | 3 | -10 | 36 | |
| | | | Excavator/Loader | EPD-01146 | 99 | 101 | 50 | 3 | 98 | 2 | 101 | 95 | -48 | 3 | -5 | 51 |
| S11W | Construction of Guide Wall & Excavation | Feb 2019 - Jun 2019 | Crane Lorry | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 240 | -56 | 3 | -5 | 49 | 50 |
| | | | Breaker, Excavator Mounted (Hydraulic) | BS-D6-13 | 110 | 80 | 1 | 99 | 3 | 114 | 95 | -48 | 3 | -5 | 64 | |
| | | | Dump Truck with Grab | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 240 | -56 | 3 | -5 | 49 | |
| | | | Generator | CNP103 | 95 | 100 | 0 | 96 | 3 | 100 | 240 | -56 | 3 | -10 | 36 | |
| | | | Excavator/Loader | EPD-01145 | 99 | 101 | 50 | 3 | 98 | 2 | 101 | 95 | -48 | 3 | -5 | 51 |
| S12W | Road Pavement at Lighting at Lai Cheung Road | Jul 2019 - Oct 2019 | Crane Lorry | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 180 | -53 | 3 | -5 | 49 | 54 |
| | | | Breaker, Excavator Mounted (Hydraulic) | EPD-01145 | 99 | 101 | 50 | 3 | 98 | 2 | 101 | 180 | -53 | 3 | -5 | 52 |
| | | | Dump Truck with Grab | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 180 | -53 | 3 | -5 | 51 | |
| | | | Generator | CNP103 | 95 | 100 | 0 | 96 | 3 | 100 | 180 | -53 | 3 | -10 | 36 | |
| | | | Excavator/Loader | EPD-01145 | 99 | 101 | 50 | 3 | 98 | 2 | 101 | 180 | -53 | 3 | -5 | 52 |
| S14W | ELS and Excavation at ch 130 to 185 | Jul 2019 - Oct 2019 | Crane Lorry | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 180 | -53 | 3 | -5 | 49 | 57 |
| | | | Breaker, Excavator Mounted (Hydraulic) | EPD-01145 | 99 | 101 | 50 | 3 | 98 | 2 | 101 | 180 | -53 | 3 | -5 | 52 |
| | | | Dump Truck with Grab | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 180 | -53 | 3 | -5 | 51 | |
| | | | Generator | CNP103 | 95 | 100 | 0 | 96 | 3 | 100 | 180 | -53 | 3 | -10 | 36 | |
| | | | Excavator/Loader | EPD-01145 | 99 | 101 | 50 | 3 | 98 | 2 | 101 | 180 | -53 | 3 | -5 | 51 |
| S17W | Piling Works at Road D | Jul 2019 - Sep 2019 | Crane Lorry | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 240 | -56 | 3 | -5 | 49 | 54 |
| | | | Breaker, Excavator Mounted (Hydraulic) | BS-D6-13 | 110 | 80 | 1 | 99 | 3 | 114 | 95 | -48 | 3 | -5 | 64 | |
| | | | Dump Truck with Grab | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 240 | -56 | 3 | -5 | 49 | |
| | | | Generator | CNP103 | 95 | 100 | 0 | 96 | 3 | 100 | 240 | -56 | 3 | -10 | 36 | |
| | | | Excavator/Loader | EPD-01145 | 99 | 101 | 50 | 3 | 98 | 2 | 101 | 240 | -56 | 3 | -5 | 51 |
| S18W | ELS and Excavation at Box Structure E | Jul 2019 - Oct 2019 | Crane Lorry | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 180 | -53 | 3 | -5 | 49 | 57 |
| | | | Breaker, Excavator Mounted (Hydraulic) | EPD-01145 | 99 | 101 | 50 | 3 | 98 | 2 | 101 | 180 | -53 | 3 | -5 | 49 |
| | | | Dump Truck with Grab | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 180 | -53 | 3 | -5 | 49 | |
| | | | Generator | CNP103 | 95 | 100 | 0 | 96 | 3 | 100 | 180 | -53 | 3 | -10 | 36 | |
| | | | Excavator/Loader | EPD-01145 | 99 | 101 | 50 | 3 | 98 | 2 | 101 | 180 | -53 | 3 | -5 | 51 |
| S23W | Construction of Ventilation Adit at Segment 3 & 4 | Nov 2019 - Mar 2020 | Crane Lorry | CNP044 | 10 | | | | | | | | | | | |

Building King - SKCE Joint Venture
Contractor: Building King
Period: 07/00 to 19/00 (except general holidays)
Noise Sensitive Receiver: WP-111 The Coronation (West Façade)

Mitigation Measures Scenario

Noise Criteria: 75

| Worksite | Activity | Period | PME | TM Ref. / other Ref. | Unit Quiet Plant SWL | On-time, % | Time Factor | Quiet Plant SWL with on-time % | No. of plants | Total SWL | Distance from National Sources, m | Distance Attenuation | Facade朝向, dB(A) | Barrier朝向, dB(A) | Predicted Noise Level, dB(A) | Total Predicted Noise Level for each group, dB(A) |
|----------|------------------------------------|---------------------|---|----------------------|----------------------|------------|-------------|--------------------------------|---------------|-----------|-----------------------------------|----------------------|-----------------|------------------|------------------------------|---|
| S27W | ELS and Excavation at Road D | Nov 2019 - Mar 2020 | Generator | EPO-0738 | 95 | 100 | 0 | 95 | 4 | 101 | 280 | -57 | 3 | -10 | 37 | 58 |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-01145 | 99 | 70 | -2 | 97 | 2 | 100 | 280 | -57 | 3 | -5 | 52 | |
| | | | Excavator mounted with piling equipment | CNP167 | 114 | 80 | -1 | 913 | 2 | 116 | 280 | -57 | 3 | -5 | 57 | |
| | | | Ventilation Fan | CHP241 | 108 | 100 | 0 | 108 | 4 | 114 | 280 | -57 | 3 | -10 | 50 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 95 | 2 | 103 | 280 | -57 | 3 | -5 | 51 | |
| | | | Arc Welding Machine | CNP107 | 100 | 70 | -2 | 98 | 3 | 103 | 280 | -57 | 3 | -5 | 44 | |
| S28W | Construction of Pile Cap at Road G | Nov 2019 - Mar 2020 | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 1 | 107 | 265 | -56 | 3 | -5 | 48 | 56 |
| | | | Bar Bender and Cutter | CNP021 | 99 | 70 | -2 | 97 | 2 | 100 | 265 | -56 | 3 | -10 | 45 | |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 265 | -56 | 3 | -5 | 51 | |
| | | | Crane Jumbo | EPO-0738 | 99 | 70 | -2 | 97 | 2 | 100 | 265 | -56 | 3 | -5 | 40 | |
| | | | Crane lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 265 | -56 | 3 | -5 | 40 | |
| | | | Poker Vibrator, Hand Held | CNP173 | 101 | 60 | -2 | 99 | 2 | 103 | 265 | -56 | 3 | -5 | 44 | |
| | | | Piling Crane mounted auer | CNP041 | 101 | 70 | -2 | 97 | 1 | 100 | 265 | -56 | 3 | -10 | 40 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-01145 | 99 | 70 | -2 | 97 | 1 | 107 | 265 | -56 | 3 | -5 | 39 | |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 1 | 107 | 265 | -56 | 3 | -5 | 46 | |
| S29W | Construction of Box Structure E | Nov 2019 - Mar 2020 | Generator | EPO-0738 | 95 | 100 | 0 | 95 | 1 | 95 | 265 | -56 | 3 | -10 | 38 | 56 |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-01145 | 99 | 70 | -2 | 97 | 1 | 100 | 265 | -56 | 3 | -10 | 45 | |
| | | | Bar Bender and Cutter | CNP021 | 99 | 70 | -2 | 98 | 1 | 88 | 265 | -56 | 3 | 0 | 42 | |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 111 | 265 | -56 | 3 | -10 | 43 | |
| | | | Crane Jumbo | CNP047 | 100 | 60 | -2 | 99 | 2 | 100 | 265 | -56 | 3 | -5 | 46 | |
| | | | Crane lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 265 | -56 | 3 | -5 | 47 | |
| | | | Poker Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 99 | 2 | 103 | 265 | -56 | 3 | -10 | 44 | |
| | | | Ventilation Fan | CHP241 | 108 | 100 | 0 | 108 | 4 | 114 | 265 | -56 | 3 | -10 | 51 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-01145 | 99 | 70 | -2 | 97 | 1 | 100 | 265 | -56 | 3 | -5 | 48 | |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 1 | 107 | 120 | -50 | 3 | -5 | 52 | |
| | | | Generator | EPO-0738 | 95 | 100 | 0 | 95 | 1 | 95 | 120 | -50 | 3 | -10 | 38 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-01145 | 99 | 70 | -2 | 97 | 1 | 100 | 120 | -50 | 3 | -10 | 45 | |
| | | | Bar Bender and Cutter | CNP021 | 99 | 70 | -2 | 98 | 1 | 88 | 120 | -50 | 3 | 0 | 42 | |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 111 | 120 | -50 | 3 | -10 | 43 | |
| | | | Crane Jumbo | CNP047 | 100 | 60 | -2 | 99 | 2 | 100 | 120 | -50 | 3 | -10 | 46 | |
| | | | Crane lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 120 | -50 | 3 | -5 | 47 | |
| | | | Poker Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 99 | 2 | 103 | 120 | -50 | 3 | -10 | 50 | |
| | | | Ventilation Fan | CHP241 | 108 | 100 | 0 | 108 | 4 | 114 | 120 | -50 | 3 | -10 | 59 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-01145 | 99 | 70 | -2 | 97 | 1 | 100 | 120 | -50 | 3 | -5 | 56 | |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 1 | 107 | 140 | -51 | 3 | -5 | 54 | |
| | | | Concrete pump | CNP047 | 100 | 60 | -2 | 108 | 1 | 108 | 140 | -51 | 3 | -10 | 50 | |
| | | | Generator | EPO-0738 | 95 | 100 | 0 | 95 | 3 | 100 | 140 | -51 | 3 | -10 | 42 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-01145 | 99 | 70 | -2 | 97 | 1 | 100 | 140 | -51 | 3 | -5 | 46 | |
| | | | Bar Bender and Cutter | CNP021 | 99 | 70 | -2 | 98 | 1 | 88 | 140 | -51 | 3 | 0 | 46 | |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 111 | 140 | -51 | 3 | -10 | 43 | |
| | | | Crane Jumbo | CNP047 | 100 | 60 | -2 | 99 | 2 | 100 | 140 | -51 | 3 | -10 | 46 | |
| | | | Crane lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 140 | -51 | 3 | -5 | 47 | |
| | | | Poker Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 99 | 2 | 103 | 140 | -51 | 3 | -10 | 50 | |
| | | | Ventilation Fan | CHP241 | 108 | 100 | 0 | 108 | 4 | 114 | 140 | -51 | 3 | -10 | 59 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-01145 | 99 | 70 | -2 | 97 | 1 | 100 | 140 | -51 | 3 | -5 | 56 | |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 1 | 107 | 160 | -51 | 3 | -10 | 54 | |
| | | | Concrete pump | CNP047 | 100 | 60 | -2 | 108 | 1 | 108 | 160 | -51 | 3 | -10 | 52 | |
| | | | Generator | EPO-0738 | 95 | 100 | 0 | 95 | 3 | 100 | 160 | -51 | 3 | -10 | 42 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-01145 | 99 | 70 | -2 | 97 | 1 | 100 | 160 | -51 | 3 | -5 | 46 | |
| | | | Bar Bender and Cutter | CNP021 | 99 | 70 | -2 | 98 | 1 | 88 | 160 | -51 | 3 | 0 | 46 | |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 111 | 160 | -51 | 3 | -10 | 51 | |
| | | | Crane Jumbo | CNP047 | 100 | 60 | -2 | 99 | 2 | 100 | 160 | -51 | 3 | -10 | 54 | |
| | | | Crane lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 160 | -51 | 3 | -5 | 51 | |
| | | | Poker Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 99 | 2 | 103 | 160 | -51 | 3 | -5 | 54 | |
| | | | Ventilation Fan | CHP241 | 108 | 100 | 0 | 108 | 4 | 114 | 160 | -51 | 3 | -10 | 59 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-01145 | 99 | 70 | -2 | 97 | 1 | 100 | 160 | -51 | 3 | -5 | 56 | |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 111 | 180 | -51 | 3 | -10 | 54 | |
| | | | Concrete pump | CNP047 | 100 | 60 | -2 | 108 | 1 | 108 | 180 | -51 | 3 | -10 | 52 | |
| | | | Generator | EPO-0738 | 95 | 100 | 0 | 95 | 3 | 100 | 180 | -51 | 3 | -10 | 42 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-01145 | 99 | 70 | -2 | 97 | 1 | 100 | 180 | -51 | 3 | -5 | 46 | |
| | | | Bar Bender and Cutter | CNP021 | 99 | 70 | -2 | 98 | 1 | 88 | 180 | -51 | 3 | 0 | 46 | |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 111 | 180 | -51 | 3 | -10 | 51 | |
| | | | Crane Jumbo | CNP047 | 100 | 60 | -2 | 99 | 2 | 100 | 180 | -51 | 3 | -10 | 54 | |
| | | | Crane lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 180 | -51 | 3 | -5 | 51 | |
| | | | Poker Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 99 | 2 | 103 | 180 | -51 | 3 | -5 | 54 | |
| | | | Ventilation Fan | CHP241 | 108 | 100 | 0 | 108 | 4 | 114 | 180 | -51 | 3 | -10 | 59 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-01145 | 99 | 70 | -2 | 97 | 1 | 100 | 180 | -51 | 3 | -5 | 56 | |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 111 | 200 | -51 | 3 | -10 | 54 | |
| | | | Concrete pump | CNP047 | 100 | 60 | -2 | 108 | 1 | 108 | 200 | -51 | 3 | -10 | 52 | |
| | | | Generator | EPO-0738 | 95 | 100 | 0 | 95 | 3 | 100 | 200 | -51 | 3 | -10 | 42 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-01145 | 99 | 70 | -2 | 97 | 1 | 100 | 200 | -51 | 3 | -5 | 46 | |
| | | | Bar Bender and Cutter | CNP021 | 99 | 70 | -2 | 98 | 1 | 88 | 200 | -51 | 3 | 0 | 46 | |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 111 | 200 | -51 | 3 | -10 | 51 | |
| | | | Crane Jumbo | CNP047 | 100 | 60 | -2 | 99 | 2 | 100 | 200 | -51 | 3 | -10 | 54 | |
| | | | Crane lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 200 | -51 | 3 | -5 | 51 | |
| | | | Poker Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 99 | 2 | 103 | 200 | -51 | 3 | -5 | 54 | |
| | | | Ventilation Fan | CHP241 | 108 | 100 | 0 | 108 | 4 | 114 | 200 | -51 | 3 | -10 | 59 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-01145 | 99 | 70 | -2 | 97 | 1 | 100 | 200 | -51 | 3 | -5 | 56 | |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 111 | 220 | -51 | 3 | -10 | 54 | |
| | | | Concrete pump | CNP047 | 100 | 60 | -2 | 108 | 1 | 108 | 220 | -51 | 3 | -10 | 52 | |
| | | | Generator | EPO-0738 | 95 | 100 | 0 | 95 | 3 | 100 | 220 | -51 | 3 | -10 | 42 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-01145 | 99 | 70 | -2 | 97 | 1 | 100 | 220 | -51 | 3 | -5 | 46 | |
| | | | Bar Bender and Cutter | CNP021 | 99 | 70 | -2 | 98 | 1 | 88 | 220 | -51 | 3 | 0 | 46 | |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 111 | 220 | -51 | 3 | -10 | 51 | |
| | | | Crane Jumbo | CNP047 | 100 | 60 | -2 | 99 | 2 | 100 | 220 | -51 | 3 | -10 | 54 | |
| | | | Crane lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 220 | -51 | 3 | -5 | 51 | |
| | | | Poker Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 99 | 2 | 103 | 220 | -51 | 3 | -5 | 54 | |
| | | | Ventilation Fan | CHP241 | 108 | 100 | 0 | 108 | 4 | 114 | 220 | -51 | 3 | -10 | 59 | |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-01145 | 99 | 70 | -2 | 97 | 1 | 100 | 220</ | | | | | |

| Worksite | Activity | Period | PME | TM Ref / other Ref. | Unit Quiet Plant SWL | On-time, % | Time Factor | Quiet Plant SWL with on-time % | No. of plants | Total SWL | Distance from National Sources, m | Distance Attenuation | Facade Correction, dB(A) | Barrier Correction, dB(A) | Predicted Noise Level, dB(A) | Total Predicted Noise Level for each point, dB(A) |
|----------|---|---------------------|------------------------------------|---------------------|----------------------|------------|-------------|--------------------------------|---------------|-----------|-----------------------------------|----------------------|--------------------------|---------------------------|------------------------------|---|
| S49W | Piling Works at Segment 5 & 6 | Jan 2020 - Sep 2021 | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 195 | -54 | 3 | -5 | 54 | 54 |
| | | | Concrete pump | CNP047 | 100 | 80 | -1 | 108 | 1 | 103 | 195 | -54 | 3 | -5 | 47 | 47 |
| | | | Dump Truck with Grab | CNP048 | 100 | 60 | -2 | 108 | 1 | 103 | 195 | -54 | 3 | -5 | 46 | 46 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 195 | -54 | 3 | -10 | 37 | 37 |
| | | | Lorry | CNP142 | 100 | 60 | -2 | 103 | 1 | 103 | 195 | -54 | 3 | -5 | 47 | 47 |
| S50W | Backfilling of Segment 7 & 8 | Jan 2020 - Sep 2021 | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 4 | 101 | 40 | -40 | 3 | -10 | 54 | 54 |
| | | | Excavator Loader, Wheeled/Tracked | EPO-01145 | 100 | 60 | -2 | 103 | 1 | 103 | 40 | -40 | 3 | -10 | 47 | 47 |
| | | | Water Pump, Submersible (Electric) | CNP241 | 100 | 100 | 0 | 108 | 4 | 114 | 40 | -40 | 3 | -10 | 67 | 67 |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 4 | 91 | 40 | -40 | 3 | 0 | 54 | 54 |
| | | | Generator | CNP044 | 100 | 60 | -2 | 103 | 1 | 103 | 40 | -40 | 3 | 0 | 54 | 54 |
| S51W | Construction of Column and Base Slab of Depress Road at Segment 10 & 11 | Dec 2020 - Jun 2021 | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 100 | -48 | 3 | -5 | 60 | 60 |
| | | | Concrete pump | CNP047 | 100 | 80 | -1 | 108 | 2 | 111 | 100 | -48 | 3 | -10 | 56 | 56 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 100 | -48 | 3 | -5 | 43 | 43 |
| | | | Poker Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 100 | -48 | 3 | -5 | 53 | 53 |
| | | | Saw, Circular Wood | BS-D729 | 100 | 50 | -3 | 100 | 2 | 103 | 100 | -48 | 3 | -5 | 50 | 50 |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 4 | 91 | 100 | -48 | 3 | 0 | 56 | 56 |
| | | | Ba Bender and Cutter | CNP201 | 90 | 70 | -2 | 88 | 2 | 91 | 100 | -48 | 3 | 0 | 46 | 46 |
| | | | Generator | CNP044 | 100 | 60 | -2 | 103 | 1 | 103 | 100 | -48 | 3 | -10 | 43 | 43 |
| | | | Concrete Pump | CNP047 | 100 | 80 | -1 | 108 | 2 | 111 | 100 | -48 | 3 | -10 | 56 | 56 |
| S52W | Construction of R.C. Structure of Overhead Ventilation | Dec 2020 - Jun 2021 | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 120 | -50 | 3 | -5 | 58 | 58 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 120 | -50 | 3 | -10 | 43 | 43 |
| | | | Poker Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 100 | -48 | 3 | -5 | 53 | 53 |
| | | | Saw, Circular Wood | BS-D737 | 103 | 50 | -3 | 100 | 2 | 103 | 100 | -48 | 3 | -5 | 53 | 53 |
| | | | Generator | CNP044 | 100 | 60 | -2 | 103 | 1 | 103 | 100 | -48 | 3 | -10 | 43 | 43 |
| | | | Lorry | CNP142 | 100 | 60 | -2 | 103 | 2 | 106 | 100 | -48 | 3 | -5 | 56 | 56 |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 4 | 91 | 100 | -48 | 3 | 0 | 46 | 46 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 100 | -48 | 3 | -10 | 43 | 43 |
| | | | Concrete Pump | CNP047 | 100 | 80 | -1 | 108 | 2 | 111 | 100 | -48 | 3 | -10 | 56 | 56 |
| S53W | Construction of Drainage Works of Depress Road | Dec 2020 - Jun 2021 | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 120 | -50 | 3 | -5 | 57 | 57 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 3 | 100 | 120 | -50 | 3 | -10 | 43 | 43 |
| | | | Dump Truck with Grab | CNP093 | 100 | 70 | -2 | 103 | 2 | 106 | 120 | -50 | 3 | -5 | 55 | 55 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 3 | 100 | 120 | -50 | 3 | -10 | 43 | 43 |
| | | | Excavator Loader, Wheeled/Tracked | EPO-01145 | 102 | 60 | -2 | 100 | 3 | 105 | 120 | -50 | 3 | -5 | 53 | 53 |
| | | | Concrete Lorry Mixer | CNP173 | 104 | 60 | -2 | 100 | 2 | 105 | 120 | -50 | 3 | -5 | 47 | 47 |
| | | | Generator | CNP044 | 100 | 60 | -2 | 103 | 1 | 103 | 120 | -50 | 3 | -10 | 51 | 51 |
| | | | Concrete pump | CNP047 | 100 | 80 | -1 | 108 | 1 | 108 | 120 | -50 | 3 | -10 | 51 | 51 |
| S54W | Construction of Road Surface, Roadbase and Surfacing of Depress Road | Dec 2020 - Jun 2021 | Dump Truck with Grab | CNP093 | 100 | 70 | -2 | 103 | 2 | 106 | 120 | -50 | 3 | -5 | 55 | 55 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 3 | 100 | 120 | -50 | 3 | -10 | 43 | 43 |
| | | | Excavator Loader, Wheeled/Tracked | EPO-01145 | 102 | 60 | -2 | 100 | 3 | 105 | 120 | -50 | 3 | -5 | 53 | 53 |
| | | | Concrete Lorry Mixer | CNP173 | 104 | 60 | -2 | 100 | 2 | 105 | 120 | -50 | 3 | -5 | 47 | 47 |
| | | | Generator | CNP044 | 100 | 60 | -2 | 103 | 1 | 103 | 120 | -50 | 3 | -10 | 51 | 51 |
| | | | Concrete pump | CNP047 | 100 | 80 | -1 | 108 | 1 | 108 | 120 | -50 | 3 | -10 | 51 | 51 |
| S53W | Construction of Temporary Drainage Works | Jul 2021 - Feb 2022 | Dump Truck with Grab | CNP093 | 100 | 70 | -2 | 103 | 2 | 106 | 110 | -49 | 3 | -5 | 59 | 59 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 3 | 100 | 110 | -49 | 3 | -10 | 44 | 44 |
| | | | Excavator, Hyd. Hand Held | EPO-01145 | 102 | 60 | -2 | 100 | 3 | 105 | 110 | -49 | 3 | -5 | 54 | 54 |
| | | | Concrete Lorry Mixer | CNP173 | 104 | 60 | -2 | 100 | 2 | 105 | 110 | -49 | 3 | -5 | 48 | 48 |
| | | | Generator | CNP044 | 100 | 60 | -2 | 103 | 1 | 103 | 110 | -49 | 3 | -10 | 51 | 51 |
| | | | Concrete pump | CNP047 | 100 | 80 | -1 | 108 | 1 | 108 | 110 | -49 | 3 | 0 | 46 | 46 |
| S53W | Construction of Temporary Road | Jul 2021 - Feb 2022 | Asphalt Paver | EPO-01108 | 104 | 80 | -1 | 103 | 1 | 103 | 110 | -49 | 3 | -5 | 52 | 52 |
| | | | Dump Truck with Grab | CNP093 | 105 | 70 | -2 | 103 | 2 | 106 | 110 | -49 | 3 | -5 | 56 | 56 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 3 | 100 | 110 | -49 | 3 | -10 | 44 | 44 |
| | | | Excavator Loader, Wheeled/Tracked | EPO-01145 | 102 | 60 | -2 | 100 | 2 | 105 | 110 | -49 | 3 | -5 | 47 | 47 |
| | | | Concrete Lorry Mixer | CNP173 | 104 | 60 | -2 | 100 | 1 | 103 | 110 | -49 | 3 | 0 | 46 | 46 |
| | | | Generator | CNP044 | 100 | 60 | -2 | 103 | 1 | 103 | 110 | -49 | 3 | -10 | 51 | 51 |
| | | | Concrete pump | CNP047 | 100 | 80 | -1 | 108 | 1 | 108 | 110 | -49 | 3 | 0 | 46 | 46 |
| S55W | Construction of Pile Cap, Pier and Deck at Segment 5 & 6 | Jul 2021 - Feb 2022 | Ba Bender and Cutter | CNP201 | 90 | 70 | -2 | 88 | 2 | 91 | 110 | -49 | 3 | 0 | 38 | 38 |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 120 | -50 | 3 | -5 | 51 | 51 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 120 | -50 | 3 | -10 | 36 | 36 |
| | | | Poker Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 105 | 120 | -50 | 3 | -5 | 44 | 44 |
| | | | Saw, Circular Wood | BS-D729 | 103 | 50 | -3 | 100 | 2 | 103 | 120 | -50 | 3 | -5 | 46 | 46 |
| | | | Ventilation Fan | CNP241 | 100 | 100 | 0 | 108 | 4 | 114 | 120 | -50 | 3 | -10 | 52 | 52 |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 4 | 91 | 120 | -50 | 3 | 0 | 38 | 38 |
| | | | Generator | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 120 | -50 | 3 | -5 | 51 | 51 |
| | | | Concrete Pump | CNP047 | 100 | 80 | -1 | 108 | 2 | 111 | 120 | -50 | 3 | 0 | 46 | 46 |
| S56W | Construction of Structure III at Road B2/C2 | Jul 2021 - Feb 2022 | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 120 | -50 | 3 | -5 | 51 | 51 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 120 | -50 | 3 | -10 | 43 | 43 |
| | | | Poker Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 105 | 120 | -50 | 3 | -5 | 44 | 44 |
| | | | Saw, Circular Wood | BS-D714 | 101 | 60 | -2 | 99 | 1 | 99 | 120 | -50 | 3 | -5 | 40 | 40 |
| | | | Generator | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 120 | -50 | 3 | -10 | 35 | 35 |
| | | | Concrete Pump | CNP047 | 100 | 80 | -1 | 108 | 2 | 111 | 120 | -50 | 3 | -10 | 44 | 44 |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 4 | 91 | 120 | -50 | 3 | 0 | 46 | 46 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 120 | -50 | 3 | -10 | 43 | 43 |
| | | | Excavator Loader, Wheeled/Tracked | EPO-01145 | 102 | 60 | -2 | 100 | 2 | 105 | 120 | -50 | 3 | -5 | 44 | 44 |
| | | | Concrete Lorry Mixer | CNP173 | 104 | 60 | -2 | 100 | 1 | 103 | 120 | -50 | 3 | -10 | 43 | 43 |
| | | | Generator | CNP044 | 100 | 60 | -2 | 103 | 1 | 103 | 120 | -50 | 3 | -10 | 43 | 43 |
| | | | Concrete pump | CNP047 | 100 | 80 | -1 | 108 | 1 | 108 | 120 | -50 | 3 | 0 | 46 | 46 |
| S59W | Construction of Column at Segment 5 & 6 | Jul 2021 - Feb 2022 | Ba Bender and Cutter | CNP201 | 90 | 70 | -2 | 88 | 2 | 91 | 120 | -50 | 3 | -5 | 54 | 54 |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 120 | -50 | 3 | -5 | 54 | 54 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 120 | -50 | 3 | -10 | 40 | 40 |
| | | | Poker Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 3 | 105 | 120 | -50 | 3 | -5 | 49 | 49 |
| | | | Saw, Circular Wood | BS-D729 | 103 | 50 | -3 | 100 | 2 | 103 | 120 | -50 | 3 | -5 | 47 | 47 |
| | | | Generator | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 120 | -50 | 3 | -10 | 43 | 43 |
| | | | Concrete Pump | CNP047 | 100 | 80 | -1 | 108 | 2 | 111 | 120 | -50 | 3 | 0 | 46 | 46 |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 4 | 91 | 120 | -50 | 3 | 0 | 40 | 40 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 120 | -50 | 3 | -10 | 43 | 43 |
| | | | Excavator Loader, Wheeled/Tracked | EPO-01145 | 102 | 60 | -2 | 100 | 2 | 105 | 120 | -50 | 3 | -5 | 47 | 47 |
| | | | Concrete Lorry Mixer | CNP173 | 104 | 60 | -2 | 100 | 1 | 103 | 120 | -50 | 3 | -10 | 43 | 43 |
| | | | Generator | CNP044 | 100 | 60 | -2 | 103 | 1 | 103 | 120 | -50 | 3 | -10 | 43 | 43 |
| | | | Concrete pump | CNP047 | 100 | 80 | -1 | 108 | 1 | 108 | 120 | -50 | 3 | 0 | 46 | 46 |
| S59W | Construction of Road Facilities at Segment 5 & 6 | Jul 2021 - Feb 2022 | Ba Bender and Cutter | CNP201 | 90 | 70 | -2 | 88 | 2 | 91 | 120 | -50 | 3 | -5 | 54 | 54 |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 120 | -50 | 3 | -5 | 54 | 54 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 120 | -50 | 3 | -10 | 40 | 40 |
| | | | Poker Vibratory, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 3 | 105 | 120 | -50 | 3 | -5 | 49 | 49 |
| | | | Saw, Circular Wood | BS-D729 | 103 | 50 | -3 | 100 | 2 | 103 | 120 | -50 | 3 | -5 | 47 | 47 |
| | | | Generator | CNP044 | 100 | 60 | -2 | 103 | 2 | 106 | 120 | -50 | 3 | -10 | 43 | 43 |
| | | | Concrete Pump | CNP047 | 100 | 80 | -1 | 108 | 2 | 111 | 1 | | | | | |

| Worksite | Activity | Period | PME | TM Ref. / other Ref. | Unit Quiet SWL | On-time, % | Time Factor | Quiet Plant SWL with on-time % | No. of plants | Total SWL | Distance from National Sources, m | Distance Attenuation | Facade Ctrd. dBA | Barrier Ctrd. dBA | Predicted Noise Level, dB(A) | Total Predicted Noise Level for each group, dB(A) |
|----------|---|---------------------|---|----------------------|----------------|------------|-------------|--------------------------------|---------------|-----------|-----------------------------------|----------------------|------------------|-------------------|------------------------------|---|
| S62W | Construction of Overhead Ventilation, Landscape Deck and Column | Dec 2020 - Jun 2021 | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 90 | 2 | 91 | 125 | -50 | 3 | -5 | 40 | 40 |
| | | | Concrete Lorry Mixer | CNP024 | 100 | 60 | -2 | 107 | 2 | 110 | 125 | -50 | 3 | -5 | 48 | |
| | | | Concrete pump | CNP047 | 100 | 80 | -1 | 108 | 2 | 111 | 125 | -50 | 3 | -10 | 54 | |
| | | | Generator | EPD-07238 | 95 | 100 | 0 | 95 | 2 | 98 | 125 | -50 | 3 | -10 | 41 | |
| | | | Dump Truck with Grab | CNP023 | 100 | 60 | -2 | 107 | 2 | 108 | 125 | -50 | 3 | -5 | 47 | |
| | | Mar 2022 - May 2022 | Poker Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 125 | -50 | 3 | -5 | 51 | 51 |
| | | | Saw, Circular Wood | BS-D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 125 | -50 | 3 | -5 | 51 | |
| | | | Ventilation Fan | CNP241 | 100 | 60 | -2 | 108 | 2 | 114 | 125 | -50 | 3 | -10 | 50 | |
| | | | Lorry | CNP142 | 100 | 60 | -2 | 103 | 2 | 106 | 125 | -50 | 3 | -5 | 54 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 96 | 4 | 91 | 125 | -50 | 3 | 0 | 44 | |
| S63W | Pipe pile wall construction at Segment 1, 2 | Mar 2022 - May 2022 | Crane Lorry Mixer | CNP021 | 100 | 60 | -2 | 107 | 2 | 108 | 160 | -52 | 3 | -5 | 49 | 49 |
| | | | Concrete pump | CNP047 | 100 | 80 | -1 | 108 | 1 | 108 | 160 | -52 | 3 | -10 | 54 | |
| | | | Dump Truck with Grab | CNP023 | 100 | 70 | -2 | 103 | 1 | 103 | 160 | -52 | 3 | -5 | 49 | |
| | | | Generator | EPD-07238 | 95 | 100 | 0 | 95 | 1 | 100 | 160 | -52 | 3 | -10 | 45 | |
| | | | Crane Lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 160 | -52 | 3 | -5 | 45 | |
| | | May 2022 | Poker Vibrator, Hand Held | CNP167 | 114 | 70 | -2 | 112 | 2 | 115 | 160 | -52 | 3 | -10 | 56 | 56 |
| | | | Excavator, Loader, Wheeled/Tracked | CNP173 | 100 | 60 | -2 | 100 | 2 | 103 | 160 | -52 | 3 | -5 | 43 | |
| | | | Poker Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 107 | 2 | 110 | 160 | -52 | 3 | 0 | 42 | |
| | | | Excavator, Loader, Wheeled/Tracked | CNP167 | 114 | 80 | -1 | 113 | 2 | 116 | 160 | -52 | 3 | -5 | 62 | |
| | | | Ventilation Fan | CNP241 | 100 | 60 | -2 | 108 | 4 | 114 | 160 | -52 | 3 | -10 | 49 | |
| S64W | Piling Works (No.41) and Piers (C2R6, B2P5) at Road B2/C2 | Apr 2022 - May 2022 | Crane Lorry Mixer | CNP021 | 100 | 60 | -2 | 107 | 2 | 110 | 160 | -52 | 3 | -5 | 46 | 46 |
| | | | Concrete pump | CNP047 | 100 | 80 | -1 | 108 | 1 | 108 | 160 | -52 | 3 | -10 | 50 | |
| | | | Dump Truck with Grab | CNP023 | 100 | 70 | -2 | 103 | 1 | 103 | 160 | -52 | 3 | -5 | 49 | |
| | | | Generator | EPD-07238 | 95 | 100 | 0 | 96 | 2 | 98 | 160 | -52 | 3 | -10 | 40 | |
| | | | Lorry | CNP142 | 100 | 60 | -2 | 103 | 1 | 103 | 160 | -52 | 3 | -5 | 50 | |
| | | May 2022 | Generator | EPD-07238 | 95 | 100 | 0 | 96 | 4 | 91 | 160 | -52 | 3 | -10 | 40 | 40 |
| | | | Excavator, Loader, Wheeled/Tracked | CNP167 | 114 | 80 | -1 | 113 | 2 | 116 | 160 | -52 | 3 | -5 | 62 | |
| | | | Excavator mounted with piling equipment | CNP173 | 100 | 60 | -2 | 108 | 4 | 114 | 160 | -52 | 3 | -10 | 49 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 96 | 4 | 91 | 160 | -52 | 3 | 0 | 36 | |
| | | | Arc Welding Machine | CNP167 | 114 | 70 | -2 | 107 | 2 | 110 | 160 | -52 | 3 | -5 | 46 | |
| S65W | Construction of Noise Barrier at Road E/F | Mar 2022 - May 2022 | Concrete Lorry Mixer | CNP021 | 100 | 60 | -2 | 107 | 2 | 110 | 300 | -58 | 3 | -5 | 50 | 50 |
| | | | Concrete pump | CNP047 | 100 | 80 | -1 | 108 | 2 | 111 | 300 | -58 | 3 | -10 | 55 | |
| | | | Dump Truck with Grab | CNP023 | 100 | 60 | -2 | 103 | 2 | 106 | 300 | -58 | 3 | -5 | 49 | |
| | | | Generator | EPD-07238 | 95 | 100 | 0 | 96 | 2 | 98 | 300 | -58 | 3 | -10 | 40 | |
| | | | Lorry | CNP142 | 100 | 60 | -2 | 103 | 1 | 103 | 300 | -58 | 3 | -10 | 50 | |
| | | May 2022 | Generator | EPD-07238 | 95 | 100 | 0 | 96 | 4 | 91 | 300 | -58 | 3 | 0 | 36 | 36 |
| | | | Excavator, Loader, Wheeled/Tracked | CNP167 | 114 | 80 | -1 | 113 | 2 | 116 | 300 | -58 | 3 | -10 | 46 | |
| | | | Excavator mounted with piling equipment | CNP173 | 100 | 60 | -2 | 108 | 4 | 114 | 300 | -58 | 3 | -10 | 49 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 96 | 4 | 91 | 300 | -58 | 3 | 0 | 36 | |
| | | | Arc Welding Machine | CNP167 | 114 | 70 | -2 | 107 | 2 | 110 | 300 | -58 | 3 | -5 | 46 | |
| S66W | Construction of Subway at Segment 1, 2 | Mar 2022 - May 2022 | Concrete Lorry Mixer | CNP021 | 100 | 60 | -2 | 107 | 2 | 110 | 230 | -55 | 3 | 0 | 39 | 39 |
| | | | Concrete pump | CNP047 | 100 | 80 | -1 | 108 | 2 | 111 | 230 | -55 | 3 | -5 | 53 | |
| | | | Dump Truck with Grab | CNP023 | 100 | 60 | -2 | 103 | 2 | 106 | 230 | -55 | 3 | -10 | 50 | |
| | | | Generator | EPD-07238 | 95 | 100 | 0 | 95 | 2 | 98 | 230 | -55 | 3 | -10 | 36 | |
| | | | Crane Lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 230 | -55 | 3 | -5 | 42 | |
| | | May 2022 | Poker Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 230 | -55 | 3 | -5 | 43 | 43 |
| | | | Saw, Circular Wood | BS-D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 230 | -55 | 3 | -5 | 46 | |
| | | | Ventilation Fan | CNP241 | 100 | 60 | -2 | 108 | 4 | 114 | 230 | -55 | 3 | -10 | 49 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 96 | 4 | 91 | 230 | -55 | 3 | 0 | 36 | |
| | | | Arc Welding Machine | CNP167 | 114 | 70 | -2 | 107 | 2 | 110 | 230 | -55 | 3 | -5 | 46 | |
| S67W | Construction of Landscape Deck | Mar 2022 - May 2022 | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 107 | 2 | 110 | 230 | -55 | 3 | 0 | 41 | 41 |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 230 | -55 | 3 | -5 | 53 | |
| | | | Concrete pump | CNP047 | 100 | 80 | -1 | 108 | 2 | 111 | 230 | -55 | 3 | -10 | 50 | |
| | | | Dump Truck with Grab | CNP023 | 100 | 60 | -2 | 103 | 2 | 106 | 230 | -55 | 3 | -10 | 47 | |
| | | | Generator | EPD-07238 | 95 | 100 | 0 | 95 | 2 | 98 | 230 | -55 | 3 | -10 | 37 | |
| | | May 2022 | Crane Lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 230 | -55 | 3 | -5 | 42 | 42 |
| | | | Poker Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 230 | -55 | 3 | -5 | 45 | |
| | | | Saw, Circular Wood | BS-D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 230 | -55 | 3 | -5 | 46 | |
| | | | Ventilation Fan | CNP241 | 100 | 60 | -2 | 108 | 4 | 114 | 230 | -55 | 3 | -10 | 49 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 96 | 4 | 91 | 230 | -55 | 3 | 0 | 37 | |
| S68W | ELS and Excavation at Ventilation Adit | Mar 2022 - May 2022 | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 107 | 2 | 110 | 230 | -55 | 3 | -10 | 62 | 62 |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 230 | -55 | 3 | -5 | 45 | |
| | | | Concrete pump | CNP047 | 100 | 80 | -1 | 108 | 2 | 111 | 230 | -55 | 3 | -10 | 59 | |
| | | | Dump Truck with Grab | CNP023 | 100 | 60 | -2 | 103 | 2 | 106 | 230 | -55 | 3 | -10 | 51 | |
| | | | Generator | EPD-07238 | 95 | 100 | 0 | 95 | 2 | 98 | 230 | -55 | 3 | -10 | 39 | |
| | | May 2022 | Crane Lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 230 | -55 | 3 | -5 | 44 | 44 |
| | | | Poker Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 230 | -55 | 3 | -5 | 44 | |
| | | | Saw, Circular Wood | BS-D7-79 | 103 | 50 | -3 | 100 | 2 | 103 | 230 | -55 | 3 | -5 | 44 | |
| | | | Ventilation Fan | CNP241 | 100 | 60 | -2 | 108 | 4 | 114 | 230 | -55 | 3 | -10 | 56 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 96 | 4 | 91 | 230 | -55 | 3 | 0 | 37 | |
| S69W | Construction of Backfilling at Ventilation Adit | Jun 2022 - Nov 2022 | Generator | EPD-07238 | 95 | 100 | 0 | 95 | 4 | 101 | 230 | -52 | 3 | -10 | 42 | 42 |
| | | | Excavator, Loader, Wheeled/Tracked | EPD-01145 | 90 | 70 | -2 | 107 | 2 | 110 | 230 | -52 | 3 | -5 | 46 | |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 95 | 4 | 91 | 230 | -52 | 3 | 0 | 42 | |
| | | | | | | | | | | | | | | | | |

Build King - SKEC Joint Venture
 Construction Activities Assessment
 Period: 0700 to 1900, except general holidays
 Noise Sensitive Receiver: W-P11 The Coronation (West Façade)
 Mitigation Measures Scenario

Noise Criteria: 75

| Worksite | Activity | Period | PME | TM Ref. / other Ref. | Plant SWL | On-time, % | Time Factor | Quiet Plant SWL with on-time % | No. of plants | Total SWL | Distance from Notional Sources, m | Distance Attenuation | Facade Cntr,d B(A) | Barrier Cntr,d B(A) | Predicted Noise Level, dB(A) | Total Predicted Noise Level for each group, dB(A) |
|----------|----------|--------|------------------------------------|----------------------|-----------|------------|-------------|--------------------------------|---------------|-----------|-----------------------------------|----------------------|--------------------|---------------------|------------------------------|---|
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 230 | -55 | 3 | -5 | 53 | 53 |
| | | | Dumper, Track with Grabs | CNP049 | 100 | 70 | -2 | 107 | 2 | 106 | 230 | -55 | 3 | -5 | 49 | 49 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 3 | 100 | 230 | -55 | 3 | -10 | 38 | 38 |
| | | | Poker, Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 3 | 105 | 230 | -55 | 3 | -5 | 47 | 47 |
| | | | Excavator, Loader, Wheeled/Tracked | CNP145 | 98 | 100 | 0 | 98 | 1 | 103 | 230 | -55 | 3 | -5 | 45 | 45 |
| | | | Crane, Lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 230 | -55 | 3 | -5 | 42 | 42 |
| | | | Concrete cutter | CNP047 | 100 | 80 | -1 | 108 | 1 | 108 | 230 | -55 | 3 | -10 | 46 | 46 |
| | | | Bar Bender and Cutter | CNP041 | 100 | 70 | -2 | 108 | 2 | 103 | 195 | -54 | 3 | -5 | 41 | 46 |
| | | | Concrete Lorry Mixer | CNP046 | 100 | 60 | -2 | 107 | 2 | 110 | 195 | -54 | 3 | -10 | 50 | 50 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 195 | -54 | 3 | -10 | 47 | 47 |
| | | | Crane, lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 195 | -54 | 3 | -5 | 43 | 43 |
| | | | Poker, Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 195 | -54 | 3 | -5 | 47 | 47 |
| | | | Saw, Circular Wood | CNP241 | 100 | 60 | -2 | 108 | 1 | 108 | 195 | -54 | 3 | -10 | 53 | 53 |
| | | | Water Pump, Submersible | CNP241 | 100 | 70 | -2 | 108 | 4 | 114 | 195 | -54 | 3 | -10 | 53 | 53 |
| | | | Water Pump, Submersible (Electric) | CNP283 | 85 | 100 | 0 | 85 | 4 | 91 | 195 | -54 | 3 | 0 | 40 | 40 |
| | | | Concrete Lorry Mixer | CNP046 | 100 | 60 | -2 | 107 | 2 | 108 | 195 | -54 | 3 | -10 | 47 | 47 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 195 | -54 | 3 | -10 | 44 | 44 |
| | | | Crane, lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 195 | -54 | 3 | -5 | 44 | 44 |
| | | | Poker, Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 195 | -54 | 3 | -5 | 46 | 46 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 195 | -54 | 3 | -10 | 46 | 46 |
| | | | Crane, lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 195 | -54 | 3 | -5 | 42 | 42 |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-07145 | 99 | 70 | -2 | 109 | 1 | 97 | 195 | -53 | 3 | -5 | 42 | 42 |
| | | | Crane, Lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 75 | -46 | 3 | -5 | 51 | 51 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 75 | -46 | 3 | 0 | 49 | 49 |
| | | | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 75 | -46 | 3 | 0 | 49 | 49 |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 75 | -46 | 3 | -5 | 62 | 62 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 75 | -46 | 3 | -10 | 51 | 51 |
| | | | Crane, lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 75 | -46 | 3 | -5 | 51 | 51 |
| | | | Poker, Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 75 | -46 | 3 | -5 | 55 | 55 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 75 | -46 | 3 | -10 | 50 | 50 |
| | | | Crane, lorry | BS-D7-114 | 101 | 50 | -3 | 100 | 2 | 103 | 75 | -46 | 3 | -5 | 52 | 52 |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-07145 | 99 | 70 | -2 | 109 | 1 | 97 | 75 | -46 | 3 | -10 | 62 | 62 |
| | | | Crane, Lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 75 | -46 | 3 | -5 | 49 | 49 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 120 | -50 | 3 | -10 | 57 | 57 |
| | | | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 120 | -50 | 3 | 0 | 49 | 49 |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 120 | -50 | 3 | -5 | 62 | 62 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 120 | -50 | 3 | -10 | 51 | 51 |
| | | | Crane, lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 120 | -50 | 3 | -5 | 51 | 51 |
| | | | Poker, Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 120 | -50 | 3 | -5 | 55 | 55 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 120 | -50 | 3 | -10 | 50 | 50 |
| | | | Crane, lorry | BS-D7-114 | 101 | 50 | -3 | 100 | 2 | 103 | 120 | -50 | 3 | -5 | 48 | 48 |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-07145 | 99 | 70 | -2 | 109 | 1 | 97 | 120 | -50 | 3 | -10 | 52 | 52 |
| | | | Crane, Lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 120 | -50 | 3 | -5 | 43 | 43 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 4 | 101 | 160 | -52 | 3 | -10 | 42 | 42 |
| | | | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 160 | -53 | 3 | 0 | 41 | 41 |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 160 | -53 | 3 | -5 | 50 | 50 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 160 | -53 | 3 | -10 | 41 | 41 |
| | | | Crane, lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 160 | -53 | 3 | -5 | 41 | 41 |
| | | | Poker, Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 160 | -53 | 3 | -5 | 48 | 48 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 160 | -53 | 3 | -10 | 48 | 48 |
| | | | Crane, lorry | BS-D7-114 | 101 | 50 | -3 | 100 | 2 | 103 | 160 | -53 | 3 | -5 | 46 | 46 |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-07145 | 99 | 70 | -2 | 109 | 1 | 97 | 160 | -53 | 3 | -10 | 42 | 42 |
| | | | Crane, Lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 160 | -53 | 3 | -5 | 42 | 42 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 160 | -52 | 3 | -10 | 55 | 55 |
| | | | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 160 | -52 | 3 | 0 | 42 | 42 |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 160 | -52 | 3 | -5 | 50 | 50 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 160 | -52 | 3 | -10 | 42 | 42 |
| | | | Crane, lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 160 | -52 | 3 | -10 | 39 | 39 |
| | | | Poker, Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 160 | -52 | 3 | -5 | 45 | 45 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 160 | -52 | 3 | -10 | 45 | 45 |
| | | | Crane, lorry | BS-D7-114 | 101 | 50 | -3 | 100 | 2 | 103 | 160 | -52 | 3 | -5 | 49 | 49 |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-07145 | 99 | 70 | -2 | 109 | 1 | 97 | 160 | -52 | 3 | -10 | 55 | 55 |
| | | | Crane, Lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 160 | -52 | 3 | -5 | 42 | 42 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 4 | 101 | 160 | -52 | 3 | -10 | 42 | 42 |
| | | | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 160 | -52 | 3 | 0 | 42 | 42 |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 160 | -52 | 3 | -5 | 50 | 50 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 160 | -52 | 3 | -10 | 42 | 42 |
| | | | Crane, lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 160 | -52 | 3 | -5 | 42 | 42 |
| | | | Poker, Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 160 | -52 | 3 | -5 | 48 | 48 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 160 | -52 | 3 | -10 | 48 | 48 |
| | | | Crane, lorry | BS-D7-114 | 101 | 50 | -3 | 100 | 2 | 103 | 160 | -52 | 3 | -5 | 46 | 46 |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-07145 | 99 | 70 | -2 | 109 | 1 | 97 | 160 | -52 | 3 | -10 | 55 | 55 |
| | | | Crane, Lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 160 | -52 | 3 | -5 | 42 | 42 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 4 | 101 | 160 | -52 | 3 | -10 | 42 | 42 |
| | | | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 160 | -52 | 3 | 0 | 42 | 42 |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 160 | -52 | 3 | -5 | 50 | 50 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 160 | -52 | 3 | -10 | 42 | 42 |
| | | | Crane, lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 160 | -52 | 3 | -5 | 42 | 42 |
| | | | Poker, Vibrator, Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 160 | -52 | 3 | -5 | 48 | 48 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 160 | -52 | 3 | -10 | 48 | 48 |
| | | | Crane, lorry | BS-D7-114 | 101 | 50 | -3 | 100 | 2 | 103 | 160 | -52 | 3 | -5 | 46 | 46 |
| | | | Excavator, Loader, Wheeled/Tracked | EPO-07145 | 99 | 70 | -2 | 109 | 1 | 97 | 160 | -52 | 3 | -10 | 55 | 55 |
| | | | Crane, Lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 160 | -52 | 3 | -5 | 42 | 42 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 4 | 101 | 160 | -52 | 3 | -10 | 42 | 42 |
| | | | Bar Bender and Cutter | CNP021 | 90 | 70 | -2 | 88 | 2 | 91 | 160 | -52 | 3 | 0 | 42 | 42 |
| | | | Concrete Lorry Mixer | CNP044 | 100 | 60 | -2 | 107 | 2 | 110 | 160 | -52 | 3 | -5 | 50 | 50 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 95 | 2 | 98 | 160 | -52 | 3 | -10 | 42 | 42 |
| | | | Crane, lorry | BS-D7-114 | 101 | 60 | -2 | 99 | 1 | 99 | 160 | -52 | 3 | -5 | 42 | |

Build King - SKEC Joint Venture
Contractor Specific Addendum
Period: 07/00 to 10/00 (except general holidays)
Noise Sensitive Receiver: WP-111 The Coronation (West Façade)
Mitigation Measures Scenario

Noise Criteria: 75

| Worksite | Activity | Period | PME | TM Ref. / other Ref. | Unit Quiet Plant SWL | On-time, % | Time Factor | Quiet Plant SWL with on-time % | No. of plants | Total SWL | Distance from National Sources, m | Distance Attenuation | Facade Ctrd. dBA | Barrier Ctrd. dBA | Predicted Noise Level, dB(A) | Total Predicted Noise Level for each group, dB(A) |
|--------------|---|---------------------|---|----------------------|----------------------|------------|-------------|--------------------------------|---------------|-----------|-----------------------------------|----------------------|------------------|-------------------|------------------------------|---|
| S84W | Demolition of Existing Bridge | Dec 2022 - Oct 2023 | Flame Cutting Machine | CNP107 | 100 | 90 | 0 | 100 | 2 | 103 | 140 | -51 | 3 | -5 | 50 | 60 |
| | | | Saw, Wire | EPO-02944 | 101 | 70 | -2 | 98 | 2 | 102 | 140 | -51 | 3 | -5 | 49 | |
| | Pre-Drilling Works at Road B2 | Dec 2022 - Oct 2023 | Crane Machine | CNP205 | 101 | 50 | -3 | 98 | 2 | 101 | 140 | -51 | 3 | -5 | 48 | 60 |
| | | | Derrick | CNP167 | 114 | 80 | -1 | 113 | 2 | 116 | 140 | -51 | 3 | -10 | 58 | |
| | | | Derrick | CNP167 | 114 | 80 | -1 | 113 | 2 | 116 | 140 | -51 | 3 | -5 | 57 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 100 | 140 | -51 | 3 | -10 | 40 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 100 | 140 | -51 | 3 | -5 | 46 | |
| | | | Grout Mixer | CNP038 | 100 | 90 | -2 | 98 | 1 | 99 | 140 | -51 | 3 | -5 | 46 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 112 | 140 | -51 | 3 | -5 | 57 | |
| | | | Concrete pump | CNP047 | 109 | 90 | -1 | 108 | 1 | 108 | 140 | -51 | 3 | -10 | 50 | |
| S85W | Piling Works at Road B2 | Dec 2022 - Oct 2023 | Dump Truck with Grab | CNP203 | 85 | 100 | 0 | 85 | 3 | 90 | 140 | -51 | 3 | -10 | 40 | 60 |
| | | | Excavator | EPO-07338 | 95 | 100 | 0 | 96 | 2 | 102 | 140 | -51 | 3 | -5 | 42 | |
| | ELS & Excavation at Road B2 | Dec 2022 - Oct 2023 | Water Pump, Submersible (Electric) | CNP203 | 85 | 100 | 0 | 85 | 3 | 90 | 140 | -51 | 3 | -5 | 42 | 60 |
| | | | Crane Lorry | CNP167 | 114 | 80 | -1 | 113 | 3 | 118 | 140 | -51 | 3 | -10 | 60 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 100 | 140 | -51 | 3 | -10 | 40 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 100 | 140 | -51 | 3 | -5 | 46 | |
| | | | Excavator/Loader, Wheeled/Tracked | EPO-01146 | 99 | 70 | -2 | 97 | 1 | 97 | 140 | -51 | 3 | -5 | 45 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 4 | 101 | 140 | -51 | 3 | -10 | 43 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 4 | 101 | 140 | -51 | 3 | -5 | 43 | |
| | | | Excavator mounted with piling equipment | CNP167 | 114 | 80 | -1 | 113 | 2 | 116 | 140 | -51 | 3 | -5 | 63 | |
| S86W | Construction of Pile Cap, Pier, Bridge Deck, Road Facilities | Dec 2022 - Oct 2023 | Arc Welding Machine | CNP241 | 100 | 0 | 108 | 4 | 114 | 140 | -51 | 3 | -10 | 50 | 64 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 90 | -2 | 107 | 2 | 112 | 140 | -51 | 3 | -5 | 55 | |
| | | | Concrete pump | CNP047 | 109 | 90 | -1 | 108 | 1 | 108 | 140 | -51 | 3 | -10 | 50 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 99 | 140 | -51 | 3 | -5 | 50 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 99 | 140 | -51 | 3 | -10 | 50 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 99 | 140 | -51 | 3 | -5 | 53 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 99 | 140 | -51 | 3 | -10 | 40 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 99 | 140 | -51 | 3 | -5 | 44 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 99 | 140 | -51 | 3 | -10 | 44 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 99 | 140 | -51 | 3 | -5 | 44 | |
| S87W | Construction of Structure II at Road D | Dec 2022 - Oct 2023 | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 99 | 140 | -51 | 3 | -10 | 40 | 61 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 99 | 140 | -51 | 3 | -5 | 44 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 99 | 140 | -51 | 3 | -10 | 44 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 99 | 140 | -51 | 3 | -5 | 44 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 99 | 140 | -51 | 3 | -10 | 44 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 99 | 140 | -51 | 3 | -5 | 44 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 99 | 140 | -51 | 3 | -10 | 44 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 99 | 140 | -51 | 3 | -5 | 44 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 99 | 140 | -51 | 3 | -10 | 44 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 99 | 140 | -51 | 3 | -5 | 44 | |
| S88Wa, S88Wb | Construction of Landscape Deck at Segment 1.2 | Dec 2022 - Oct 2023 | Generator | EPO-01145 | 99 | 70 | -2 | 97 | 2 | 100 | 275 | -57 | 3 | 0 | 38 | 57 |
| | | | Generator | EPO-01145 | 99 | 70 | -2 | 97 | 2 | 100 | 275 | -57 | 3 | -5 | 42 | |
| | | | Generator | EPO-01145 | 99 | 70 | -2 | 97 | 2 | 100 | 275 | -57 | 3 | -5 | 42 | |
| | Installation of Façade System | Dec 2022 - Oct 2023 | Bar Bender and Cutter | CNP201 | 99 | 70 | -2 | 98 | 2 | 91 | 275 | -57 | 3 | 0 | 39 | 57 |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 106 | 275 | -57 | 3 | -5 | 40 | |
| | | | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 2 | 111 | 275 | -57 | 3 | -10 | 50 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 2 | 98 | 275 | -57 | 3 | -10 | 34 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 2 | 98 | 275 | -57 | 3 | -5 | 41 | |
| | | | Poker Vibratory Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 275 | -57 | 3 | -5 | 45 | |
| | | | Poker Vibratory Hand Held | CNP173 | 102 | 60 | -2 | 100 | 2 | 103 | 275 | -57 | 3 | -5 | 45 | |
| | | | Saw Circular Wood | CNP211 | 103 | 50 | -3 | 100 | 2 | 103 | 275 | -57 | 3 | -5 | 44 | |
| S89W | Construction of E&M Works | Dec 2022 - Oct 2023 | Ventilation Fan | CNP241 | 108 | 100 | 0 | 108 | 4 | 114 | 275 | -57 | 3 | -10 | 50 | 52 |
| | | | Bar Bender and Cutter | CNP201 | 101 | 60 | -2 | 99 | 1 | 99 | 240 | -56 | 3 | -5 | 54 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 70 | -2 | 108 | 2 | 106 | 240 | -56 | 3 | -5 | 50 | |
| | Construction of Fire Separation Wall | Dec 2022 - Oct 2023 | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 2 | 111 | 240 | -56 | 3 | -10 | 53 | 52 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 2 | 98 | 240 | -56 | 3 | -5 | 44 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 2 | 98 | 240 | -56 | 3 | -10 | 44 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 2 | 98 | 240 | -56 | 3 | -5 | 44 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 2 | 98 | 240 | -56 | 3 | -10 | 44 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 2 | 98 | 240 | -56 | 3 | -5 | 44 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 2 | 98 | 240 | -56 | 3 | -10 | 44 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 2 | 98 | 240 | -56 | 3 | -5 | 44 | |
| S90W | Construction of E&M Works | Dec 2022 - Oct 2023 | Ventilation Fan | CNP241 | 101 | 100 | 0 | 108 | 4 | 114 | 195 | -54 | 3 | -10 | 53 | 54 |
| | | | Bar Bender and Cutter | CNP201 | 99 | 70 | -2 | 98 | 2 | 101 | 195 | -54 | 3 | -5 | 43 | |
| | | | Concrete Lorry Mixer | CNP044 | 109 | 60 | -2 | 107 | 2 | 110 | 195 | -54 | 3 | -5 | 53 | |
| | Installation of Utilities and Road Facilities | Dec 2022 - Oct 2023 | Concrete pump | CNP047 | 109 | 80 | -1 | 108 | 2 | 111 | 195 | -54 | 3 | -10 | 53 | 52 |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 2 | 98 | 195 | -54 | 3 | -5 | 46 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 2 | 98 | 195 | -54 | 3 | -10 | 46 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 2 | 98 | 195 | -54 | 3 | -5 | 46 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 2 | 98 | 195 | -54 | 3 | -10 | 46 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 2 | 98 | 195 | -54 | 3 | -5 | 46 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 2 | 98 | 195 | -54 | 3 | -10 | 46 | |
| | | | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 2 | 98 | 195 | -54 | 3 | -5 | 46 | |
| S91W | Construction of Road Drainage, Noise Barrier and Facilities at Road A | Nov 2023 - Oct 2024 | Crane Lorry | CNP107 | 100 | 90 | -2 | 99 | 2 | 103 | 220 | -55 | 3 | -5 | 46 | 59 |
| | | | Crane Lorry | CNP107 | 101 | 60 | -2 | 99 | 1 | 99 | 220 | -55 | 3 | -5 | 42 | |
| | | | Crane Machine | CNP167 | 114 | 80 | -1 | 113 | 2 | 116 | 220 | -55 | 3 | -5 | 54 | 59 |
| | Pre-drilling at Road B/C | Nov 2023 - Oct 2024 | Generator | EPO-07338 | 95 | 100 | 0 | 96 | 3 | 100 | 220 | -55 | 3 | -10 | 54 | |
| | | | Pumping Machine | CNP283 | 85 | 100 | 0 | 85 | 3 | 90 | 220 | -55 | 3 | -5 | 42 | |
| | | | | | | | | | | | | | | | | |

Appendix D

Updated Construction Methodology and PME

| Subject to various site condition and proposed alternative construction method, the following PME will be selected for use. | |
|---|---|
| Type of Activity | PME |
| Utility Diversion and Plant Mobilization | Breaker, Excavator Mounted(Hydraulic) Dump Truck with Grab Lorry Saw, Wire Excavator/Loader, Wheeled/Track |
| Diversion of Existing Box Culverts | Bar Bender and Cutter Concrete Lorry Mixer Concrete pump Generator Crane Mobile Poker, Vibratory, Hand Held Saw, Circular Wood Ventilation Fan Water Pump, Submersible (Electric) |
| Construction of Road Work | Concrete Lorry Mixer Dump Truck with Grab Generator Poker, Vibratory, Hand Held Excavator/Loader, Wheeled/Tracked |

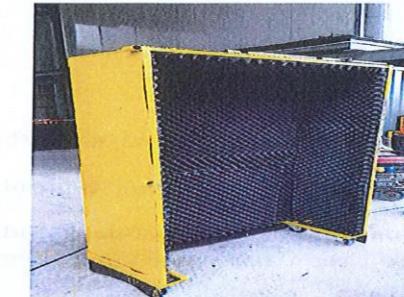
| | |
|---------------------------------|--|
| | <p>Crane Lorry</p> <p>Concrete pump</p> |
| Concreting Work | <p>Bar Bender and Cutter</p> <p>Concrete Lorry Mixer</p> <p>Concrete pump</p> |
| Construction of Bridge Works | <p>Bar Bender and Cutter</p> <p>Concrete Lorry Mixer</p> <p>Concrete pump</p> <p>Generator</p> <p>Crane Mobile</p> <p>Poker, Vibratory, Hand Held</p> <p>Saw, Circular Wood</p> <p>Ventilation Fan</p> <p>Water Pump, Submersible (Electric)</p> |
| Construction of Diaphragm Walls | <p>Lorry</p> <p>crane lorry</p> <p>Piling, Diaphragm Wall, Bentonite Filtering Plant</p> <p>Excavator/Loader, Wheeled/Tracked</p> <p>Bar Bender and Cutter</p> <p>Concrete Lorry Mixer</p> <p>Concrete pump</p> |
| Construction of Nosie barrier | Bar Bender and Cutter |

| | |
|----------------------------------|---|
| | <p>Concrete Lorry Mixer</p> <p>Concrete pump</p> <p>Generator</p> <p>crane lorry</p> <p>Poker, Vibratory, Hand Held</p> <p>Saw, Circular Wood</p> <p>Ventilation Fan</p> <p>Water Pump, Submersible (Electric)</p> <p>Excavator</p> |
| Construction of Ventilation Duct | <p>Bar Bender and Cutter</p> <p>Concrete Lorry Mixer</p> <p>Concrete pump</p> <p>Generator</p> <p>crane lorry</p> <p>Poker, Vibratory, Hand Held</p> <p>Saw, Circular Wood</p> <p>Ventilation Fan</p> <p>Water Pump, Submersible (Electric)</p> |

Appendix E

Details of Acoustic Noise Barriers

Noise Mitigation Measure for PME

| Item | Type of Plant/Equipment | Type of noise barrier |
|------|-------------------------------------|--|
| 1 | Hydraulic Excavator/Hand held tools | <p>Photo No.1</p>  <p>Photo No.2</p>  <p>Photo No.3</p>  |

Noise Mitigation Measure for PME

2

Hydraulic Excavator/Hand held tools

Acoustic Box

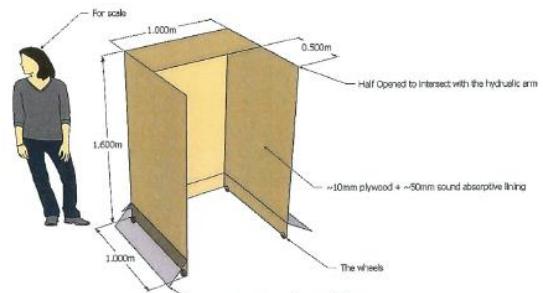


Photo No.1



Photo Description

The Multi-parts Acoustic Enclosure comprises of 75mm sound absorbing lining and 3 mm thick aluminum backing panels at its top and back plus separate composite acoustic shed on its right and left hand sides

Photo No.2



Photo Description

The front view of the composite acoustic shed showing its 75mm sound absorbing lining inside the 3 mm thick aluminium plate housing with polyester PVC laminated sheet (0.9 mm thick) at its base

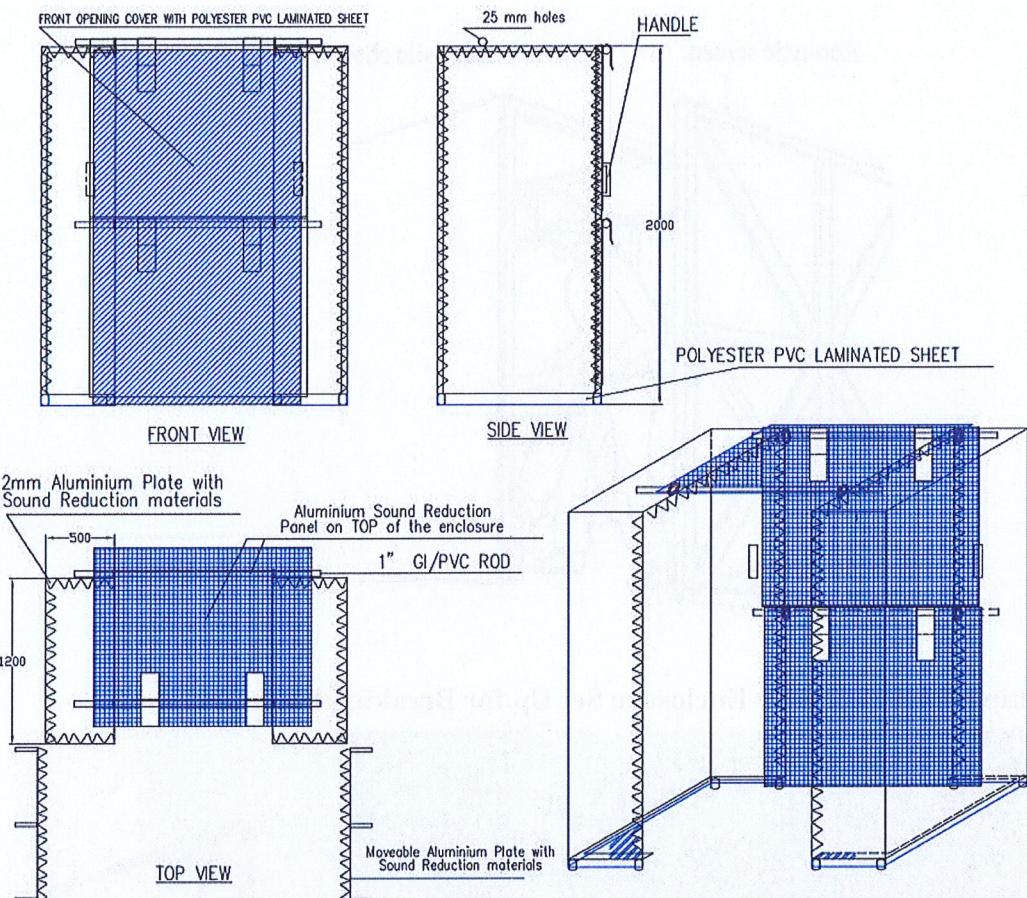
Photo No.3



Photo Description

The independent movable Acoustic Screen with a supporting frame fitted with sound absorbing lining (50mm thick) on an aluminium backing panel (1.5 mm thick) and with two castors at its base

Drawing No. 1. The “Multi-part Noise Enclosure”(Front view)



Drawing No 2. The “Multi-part Noise Enclosure”(Back view)

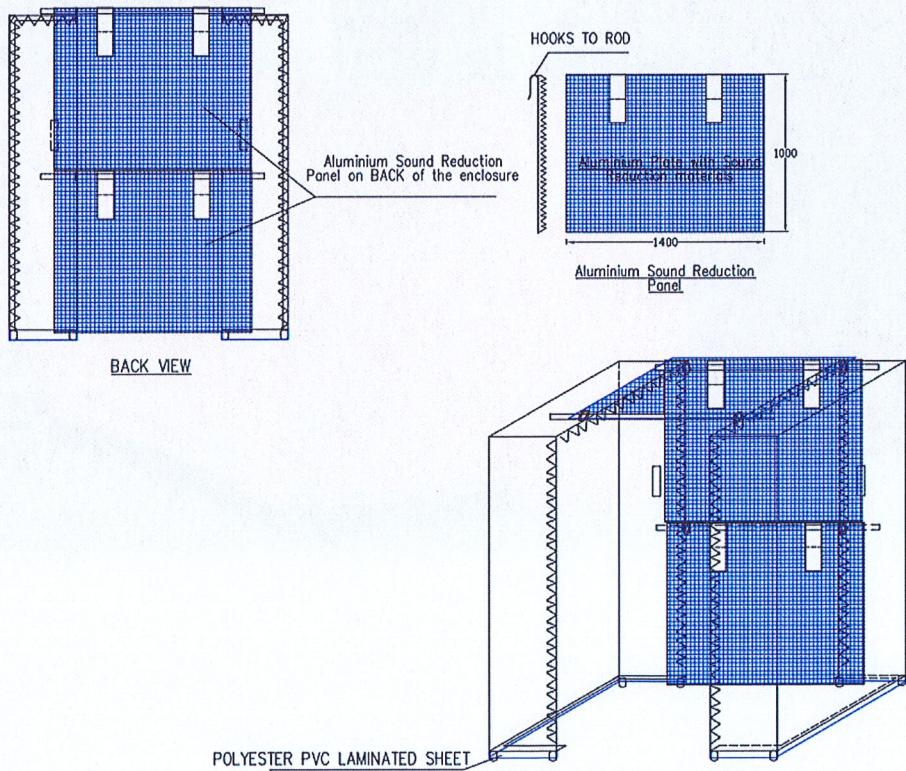
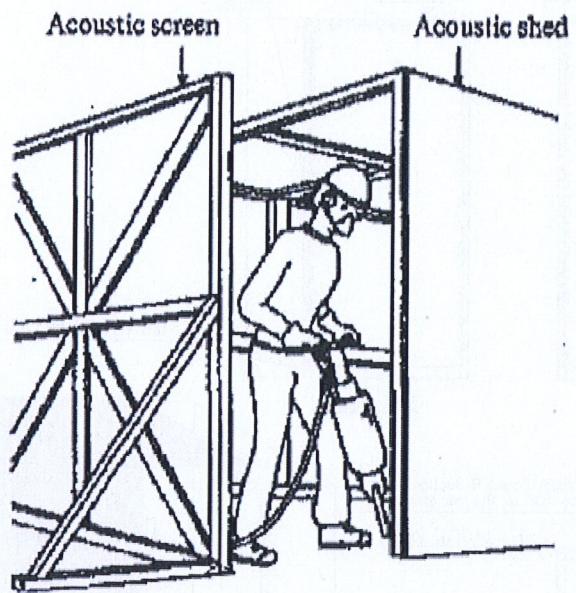


Figure No 1. The Independent Movable Acoustic Screen



Multiple Parts Acoustic Enclosure Set Up for Breaking Up



Noise Mitigation Measure for PME

| | | |
|----|---|---|
| 3. | Crane lorry, Concrete Lorry Mixer, Concrete pump, Piling Plant, Loader, Hydraulic Excavator | Noise Barrier (3.5 m)  |
|----|---|---|

Test Report

No. SDHG1408012625RP

Date: Aug.19, 2014

Page 1 of 3

CHEUNG KEE CANVAS LTD.
G/F, 352, RECLAMATION ST, KLN. HK

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description : PVC TARPAULIN
Item : CK 2009 SOUND PROOF CANVAS(1.6M)
Sample Receiving Date : Aug.13, 2014
Test Performing Date : Aug.13, 2014 to Aug.19, 2014
Test Required : In accordance with ISO 10140-2-2010 Acoustics -- Laboratory measurement of sound insulation of building elements -- Part 2: Measurement of airborne sound insulation
Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Co., Ltd.

Irvette Zhang
Approved signatory



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SDHG 072326

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Test Report

No. SDHG1408012625RP

Date: Aug.19, 2014

Page 2 of 3

I. Test conducted

The test is performed in accordance with ISO 10140-2-2010 Acoustics -- Laboratory measurement of sound insulation of building elements -- Part 2: Measurement of airborne sound insulation

The evaluation of the single-number rating from the results in one-third octave bands is done in accordance with ISO 717-1:1996 Acoustics - Rating of sound insulation in buildings and of building elements - Part 1: Airborne sound insulation

II. Sample Description and Conditioning

Sample name(provided by sponsor): PVC Tarpaulin

Color: Gray

Mass per unit area : 958 g/m²

Area, S, of test element : 3.8 m²

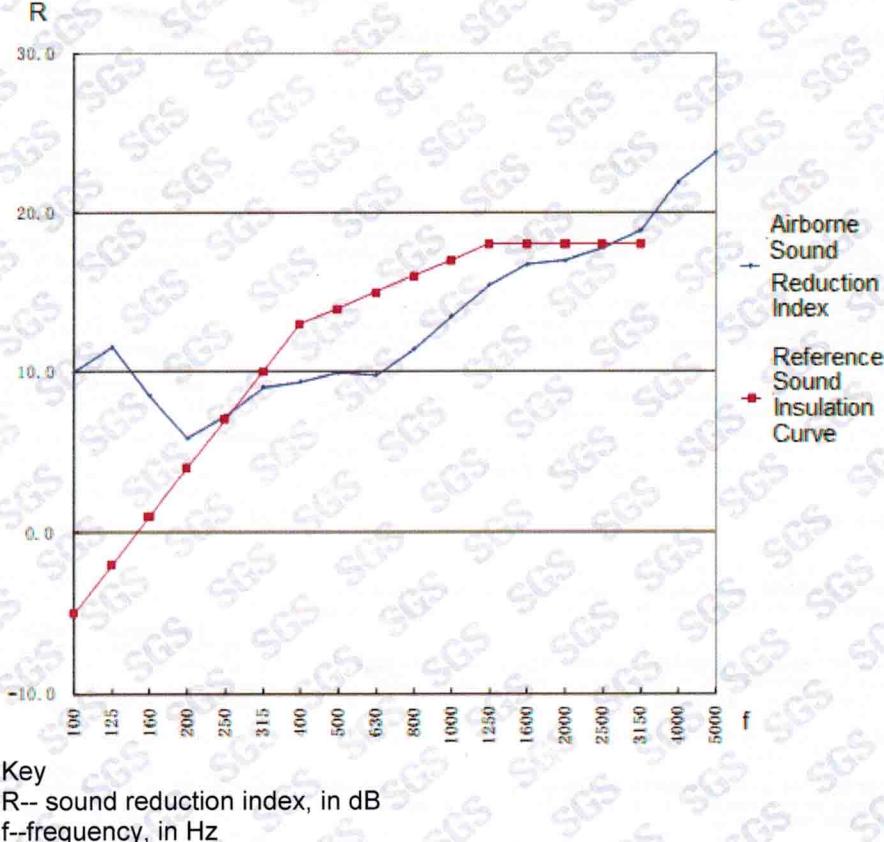
Air temp. in the test rooms : 27°C

Relative humidity in the test rooms : 58%

Receiving room volume : 67.9 m³

III. Test results

| f Hz | R dB |
|-------------------|------------------|
| 100 | 10.1 |
| 125 | 11.6 |
| 160 | 8.6 |
| 200 | 5.9 |
| 250 | 7.3 |
| 315 | 9.1 |
| 400 | 9.4 |
| 500 | 10.0 |
| 630 | 9.9 |
| 800 | 11.5 |
| 1000 | 13.5 |
| 1250 | 15.5 |
| 1600 | 16.7 |
| 2000 | 17.0 |
| 2500 | 17.8 |
| 3150 | 18.9 |
| 4000 | 21.9 |
| 5000 | 23.9 |
| Rw (C;Ctr) | 14(-1;-2) |



To be continued...



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Guangzhou Branch, Building Materials & Hardgoods Laboratory

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Test Report

No. SDHG1408012625RP

Date: Aug.19, 2014

Page 3 of 3

STATEMENTS:

For laboratory measurements using sound pressure, the sound reduction index is calculated using:

$$R = L_1 - L_2 + 10 \lg \frac{S}{A} (dB)$$

where

L_1 is the energy average sound pressure level in the source room, in decibels;

L_2 is the energy average sound pressure level in the receiving room, in decibels;

S is the area of the free test opening in which the test element is installed, in square metres;

A is the equivalent sound absorption area in the receiving room, in square metres.

Photo Appendix:

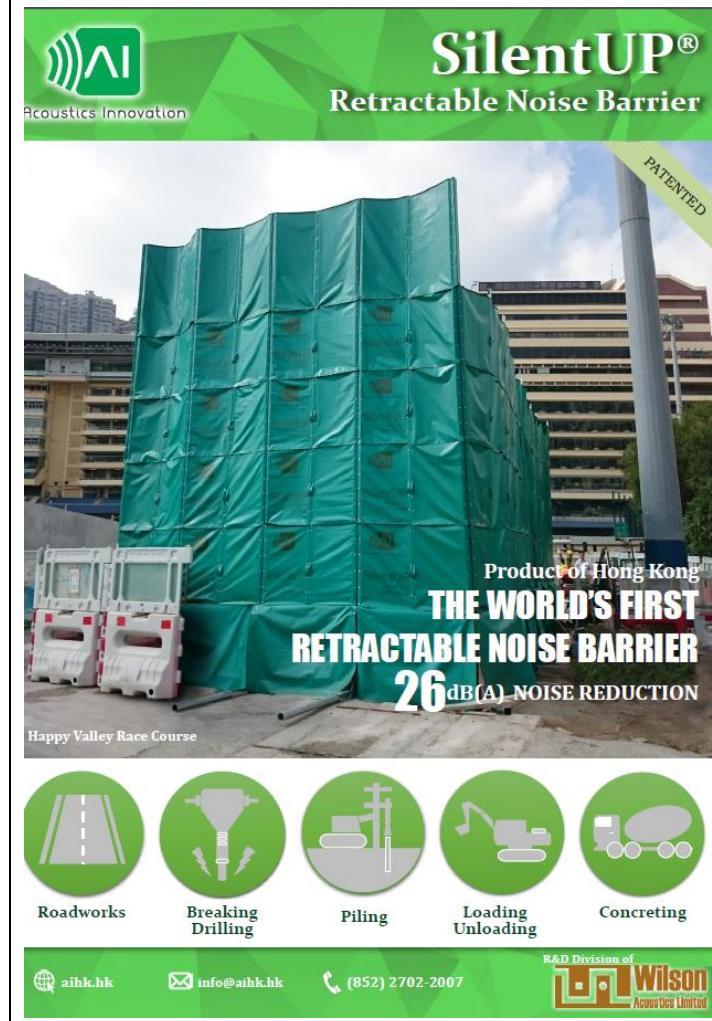


Remark: This test was subcontracted to qualified subcontractor.

End of Report

Noise Mitigation Measure for PME

4. Crane lorry, Concrete Lorry Mixer, Concrete pump, Piling Plant, Loader, Hydraulic Excavator





Acoustics Innovation

SilentUP® Retractable Noise Barrier

PATENTED



Product of Hong Kong
**THE WORLD'S FIRST
RETRACTABLE NOISE BARRIER
26dB(A) NOISE REDUCTION**

Happy Valley Race Course



Roadworks



Breaking
Drilling



Piling



Loading
Unloading



Concreting



Acoustics Innovation

SilentUP®

Product Description

SilentUP® is a patented retractable noise barrier for construction works and outdoor music events. It can be easily installed and mobilized by people without using any machines. No concrete foundation is required and the installation process is quiet enough to be conducted even at night time. The panels are installed upwards from ground level and connected by magnetic gap sealing.

Our product has been widely used in Hong Kong. Visit our website for the job references aihk.hk/SilentUP/reference.

Benefits

- Quiet and manual installation
- Flexible construction site planning
- Facilitate Construction Noise Permit (CNP) application process
- Minimize noise complaints
- No concrete foundation required

Technical Information

SilentUP® noise barrier material conforms to the flammability requirement specifications.

BS EN ISO 15025:2002 6 TYPE B

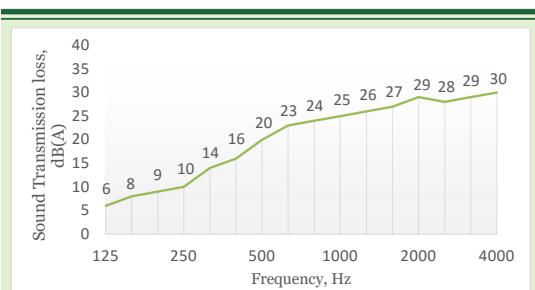
GB8624-1997 TYPE B

Product Specification

| | |
|-----------------|------------------|
| Modular Size | 1m(H) x 1.35m(W) |
| Modular Weight | 6kg |
| Maximum Height | 10m |
| Insertion Loss* | 26 dB(A) |
| STC | 23 |
| Standard Colour | Grey |
| Panel Thickness | 100mm on edges |

* Tested with white noise source

Sound Transmission Loss



Testing method in accordance with BS EN ISO 10140-2: 2010

Installation videos available at aihk.hk/youtube



Client Feedback

“Some of our contractors have used the retractable noise barriers to facilitate CNP application. They have found this innovative product useful - lightweight, easy to manoeuvre, and fit for purpose.”

Richard Kwan
Environment Manager
MTR Corporation Ltd

“We are impressed by SilentUP’s quick installation and relocation, it is definitely one of the best innovations and practicable approaches for the noise mitigation measures for the construction activities.”

Lighting Chan
Environmental Compliance Support Manager,
Leighton Asia Ltd

“We are happy with Acoustics Innovation’s professional service (SilentUP Noise Barrier) in helping us achieve our noise mitigation goals.”

Ronald Fung
Project QA & Environmental Manager
Kier - Laing O'Rourke - Kaden Joint Venture

“SilentUP is definitely a useful tool to minimize the noise pollution. We successfully obtained a CNP and most importantly no complaint has been received from the NSRs.”

Clarence Yeung
Environmental Officer
Chun Wo Construction and Engineering Co. Ltd

Appendix F

Distance between Representative NSRs and Worksites

W-N25A

| Item | Worksite | Distance from Notional Sources, m |
|------|-----------------------------------|-----------------------------------|
| 1 | S1W | >300 |
| 2 | S2W | >300 |
| 3 | S3W | >300 |
| 4 | S4W | >300 |
| 5 | S5W | >300 |
| 6 | S6W | 265 |
| 7 | S7W | 235 |
| 8 | S8Wa, S8Wb, S8Wc | >300 |
| 9 | S9W | >300 |
| 10 | S10W | 230 |
| 11 | S11W | 280 |
| 12 | S12W | >300 |
| 13 | S13W | >300 |
| 14 | S14W | >300 |
| 15 | S15W | >300 |
| 16 | S16Wa, S16Wb | 230 |
| 17 | S17W | >300 |
| 18 | S18W | 255 |
| 19 | S19Wa, S19Wb, S19Wc, S19dW, S19eW | >300 |
| 20 | S20W | >300 |
| 21 | S21W | >300 |
| 22 | S22W | 295 |
| 23 | S23W | >300 |
| 24 | S24W | >300 |
| 25 | S25W | >300 |
| 26 | S26W | >300 |
| 27 | S27W | 295 |
| 28 | S28W | 230 |
| 29 | S29W | 265 |
| 30 | S30W | >300 |
| 31 | S31W | 210 |
| 32 | S32Wa, S32Wb, S32Wc | >300 |
| 33 | S33W | >300 |
| 34 | S34W | >300 |
| 35 | S35W | >300 |
| 36 | S36W | >300 |
| 37 | S37W | 265 |
| 38 | S38W | 220 |
| 39 | S39W | >300 |
| 40 | S40W | >300 |
| 41 | S41W | >300 |
| 42 | S42W | >300 |
| 43 | S43Wa, S43Wb, S43Wc | >300 |
| 44 | S44Wa, S44Wb | >300 |
| 45 | S45Wa, S45Wb | >300 |
| 46 | S46W | >300 |
| 47 | S47W | 255 |
| 48 | S48W | 230 |
| 49 | S49W | >300 |
| 50 | S50W | >300 |
| 51 | S51W | >300 |
| 52 | S52W | >300 |
| 53 | S53W | >300 |
| 54 | S54W | >300 |
| 55 | S55W | >300 |
| 56 | S56W | >300 |
| 57 | S57W | 230 |
| 58 | S58W | 290 |
| 59 | S59W | >300 |
| 60 | S60W | >300 |
| 61 | S61W | >300 |
| 62 | S62W | >300 |
| 63 | S63W | >300 |
| 64 | S64W | >300 |
| 65 | S65W | 220 |
| 66 | S66W | 265 |
| 67 | S67W | >300 |
| 68 | S68W | 280 |
| 69 | S69W | >300 |
| 70 | S70W | >300 |
| 71 | S71W | >300 |
| 72 | S72W | >300 |
| 73 | S73W | >300 |
| 74 | S74W | >300 |
| 75 | S75W | 220 |
| 76 | S76W | 265 |
| 77 | S77W | 290 |
| 78 | S78W | >300 |
| 79 | S79W | >300 |
| 80 | S80W | >300 |
| 81 | S81W | >300 |
| 82 | S82W | >300 |
| 83 | S83W | >300 |
| 84 | S84W | >300 |
| 85 | S85W | >300 |
| 86 | S86W | 265 |
| 87 | S87W | >300 |
| 88 | S88Wa, S88Wb | >300 |
| 89 | S89W | >300 |
| 90 | S90W | >300 |
| 91 | S91W | >300 |
| 92 | S92W | >300 |

W-P11

| Item | Worksite | Distance from Notional Sources, m |
|------|-----------------------------------|-----------------------------------|
| 1 | S1W | 275 |
| 2 | S2W | 240 |
| 3 | S3W | 95 |
| 4 | S4W | >300 |
| 5 | S5W | 120 |
| 6 | S6W | 245 |
| 7 | S7W | 170 |
| 8 | S8Wa, S8Wb, S8Wc | 60 |
| 9 | S9W | 110 |
| 10 | S10W | >300 |
| 11 | S11W | 245 |
| 12 | S12W | 180 |
| 13 | S13W | >300 |
| 14 | S14W | 225 |
| 15 | S15W | 115 |
| 16 | S16Wa, S16Wb | 255 |
| 17 | S17W | 275 |
| 18 | S18W | 240 |
| 19 | S19Wa, S19Wb, S19Wc, S19dW, S19eW | 35 |
| 20 | S20W | 115 |
| 21 | S21W | >300 |
| 22 | S22W | >300 |
| 23 | S23W | >300 |
| 24 | S24W | >300 |
| 25 | S25W | 130 |
| 26 | S26W | 255 |
| 27 | S27W | 280 |
| 28 | S28W | 265 |
| 29 | S29W | 265 |
| 30 | S30W | 120 |
| 31 | S31W | >300 |
| 32 | S32Wa, S32Wb, S32Wc | 100 |
| 33 | S33W | 140 |
| 34 | S34W | 135 |
| 35 | S35W | 275 |
| 36 | S36W | 285 |
| 37 | S37W | 245 |
| 38 | S38W | 275 |
| 39 | S39W | 170 |
| 40 | S40W | 45 |
| 41 | S41W | 145 |
| 42 | S42W | 130 |
| 43 | S43Wa, S43Wb, S43Wc | 120 |
| 44 | S44Wa, S44Wb | 105 |
| 45 | S45Wa, S45Wb | 170 |
| 46 | S46W | 280 |
| 47 | S47W | 265 |
| 48 | S48W | 260 |
| 49 | S49W | 195 |
| 50 | S50W | 40 |
| 51 | S51W | 100 |
| 52 | S52W | 120 |
| 53 | S53W | 110 |
| 54 | S54W | 155 |
| 55 | S55W | 220 |
| 56 | S56W | 265 |
| 57 | S57W | 280 |
| 58 | S58W | 195 |
| 59 | S59W | 195 |
| 60 | S60W | 75 |
| 61 | S61W | 100 |
| 62 | S62W | 125 |
| 63 | S63W | 160 |
| 64 | S64W | 140 |
| 65 | S65W | 300 |
| 66 | S66W | 230 |
| 67 | S67W | 195 |
| 68 | S68W | 220 |
| 69 | S69W | 75 |
| 70 | S70W | 120 |
| 71 | S71W | 290 |
| 72 | S72W | 160 |
| 73 | S73W | 145 |
| 74 | S74W | 145 |
| 75 | S75W | 290 |
| 76 | S76W | 230 |
| 77 | S77W | 195 |
| 78 | S78W | 180 |
| 79 | S79W | 75 |
| 80 | S80W | 120 |
| 81 | S81W | 290 |
| 82 | S82W | 180 |
| 83 | S83W | 160 |
| 84 | S84W | 140 |
| 85 | S85W | 275 |
| 86 | S86W | 240 |
| 87 | S87W | 195 |
| 88 | S88Wa, S88Wb | 145 |
| 89 | S89W | 75 |
| 90 | S90W | 175 |
| 91 | S91W | 220 |
| 92 | S92W | 70 |

W-N1A

| Item | Worksite | Distance from Notional Sources, (m) |
|------|-----------------------------------|-------------------------------------|
| 1 | S1W | 245 |
| 2 | S2W | 215 |
| 3 | S3W | >300 |
| 4 | S4W | >300 |
| 5 | S5W | >300 |
| 6 | S6W | 205 |
| 7 | S7W | 170 |
| 8 | S8Wa, S8Wb, S8Wc | >300 |
| 9 | S9W | >300 |
| 10 | S10W | 240 |
| 11 | S11W | 205 |
| 12 | S12W | >300 |
| 13 | S13W | >300 |
| 14 | S14W | 250 |
| 15 | S15W | >300 |
| 16 | S16Wa, S16Wb | 175 |
| 17 | S17W | 275 |
| 18 | S18W | 215 |
| 19 | S19Wa, S19Wb, S19Wc, S19dW, S19eW | 230 |
| 20 | S20W | >300 |
| 21 | S21W | >300 |
| 22 | S22W | 245 |
| 23 | S23W | 250 |
| 24 | S24W | 300 |
| 25 | S25W | 250 |
| 26 | S26W | >300 |
| 27 | S27W | 290 |
| 28 | S28W | 170 |
| 29 | S29W | 195 |
| 30 | S30W | 265 |
| 31 | S31W | 240 |
| 32 | S32Wa, S32Wb, S32Wc | 240 |
| 33 | S33W | >300 |
| 34 | S34W | 250 |
| 35 | S35W | >300 |
| 36 | S36W | 280 |
| 37 | S37W | 220 |
| 38 | S38W | 170 |
| 39 | S39W | 220 |
| 40 | S40W | >300 |
| 41 | S41W | 275 |
| 42 | S42W | >300 |
| 43 | S43Wa, S43Wb, S43Wc | 250 |
| 44 | S44Wa, S44Wb | 205 |
| 45 | S45Wa, S45Wb | >300 |
| 46 | S46W | >300 |
| 47 | S47W | 180 |
| 48 | S48W | 170 |
| 49 | S49W | 205 |
| 50 | S50W | >300 |
| 51 | S51W | >300 |
| 52 | S52W | >300 |
| 53 | S53W | >300 |
| 54 | S54W | 250 |
| 55 | S55W | >300 |
| 56 | S56W | 265 |
| 57 | S57W | >300 |
| 58 | S58W | 170 |
| 59 | S59W | 205 |
| 60 | S60W | >300 |
| 61 | S61W | 290 |
| 62 | S62W | >300 |
| 63 | S63W | 250 |
| 64 | S64W | 290 |
| 65 | S65W | 180 |
| 66 | S66W | >300 |
| 67 | S67W | 220 |
| 68 | S68W | 180 |
| 69 | S69W | >300 |
| 70 | S70W | >300 |
| 71 | S71W | 290 |
| 72 | S72W | 250 |
| 73 | S73W | >300 |
| 74 | S74W | 290 |
| 75 | S75W | 190 |
| 76 | S76W | 205 |
| 77 | S77W | 220 |
| 78 | S78W | 190 |
| 79 | S79W | >300 |
| 80 | S80W | >300 |
| 81 | S81W | 290 |
| 82 | S82W | 265 |
| 83 | S83W | >300 |
| 84 | S84W | >300 |
| 85 | S85W | 240 |
| 86 | S86W | 245 |
| 87 | S87W | 230 |
| 88 | S88Wa, S88Wb | 170 |
| 89 | S89W | >300 |
| 90 | S90W | >300 |
| 91 | S91W | >300 |
| 92 | S92W | >300 |