

Annex C10

Construction Noise Impact Assessment (With Mitigation)

Construction Plant Inventory (With Mitigation)(Construction Method for Flyover A : Option 1 - Precast Segmental Balanced Cantilever Box Girder)

| No. | Activities | Plant | CNP/BS 5228/QPME ref. | No. of PME | On- time % | Barrier / Enclosure dB(A) ^[3] | Unit SWL, dB(A) | SWL, dB(A) | Total SWL, dB(A) ^[4] | Group ^[5] |
|--|---|--|-----------------------------|---------------|---------------|--|--------------------|---------------|------------------------------------|----------------------|
| DESIGNATED PROJECT | | | | | | | | | | |
| Improvement to Pok Oi Interchange | | | | | | | | | | |
| 1 | Site clearance | Excavator/loader, wheeled/tracked | C3/97 | 1 | 100% | | 105 | 105 | 108 | |
| | | Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne | [1-a] | 1 | 100% | | 105 | 105 | | |
| 2 | Site formation | Excavator/loader, wheeled/tracked | C3/97 | 1 | 100% | | 105 | 105 | 109 | |
| | | Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne | [1-a] | 1 | 100% | | 105 | 105 | | |
| | | Vibratory roller | C3/115 | 1 | 100% | | 102 | 102 | | |
| 3 | Piling | Continuous Flight Auger | CNP 167 | 1 | 100% | | 114 | 114 | 115 | |
| | | Crane lorry, 5.5 tonne < gross vehicle weight < 38 tonne | [1-b] | 1 | 100% | | 105 | 105 | | |
| 4 | Road drainage, utilities & water mains works | Excavator/loader, wheeled/tracked | C3/97 | 1 | 100% | | 105 | 105 | 110 | |
| | | Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne | [1-a] | 1 | 100% | | 105 | 105 | | |
| | | Mobile crane | C7/114 | 1 | 100% | | 101 | 101 | | |
| | | Breaker, hand-held, mass > 10kg and < 20kg | CNP 024 | 1 | 100% | -5 | 108 | 103 | | |
| | | Air Compressor, air flow > 10m ³ /min and < 30m ³ /min | CNP 002 | 1 | 100% | | 102 | 102 | | |
| 5 | Construct retaining walls, abutments and embankment | Excavator/loader, wheeled/tracked | C3/97 | 1 | 100% | | 105 | 105 | 110 | |
| | | Road roller | C8/30 | 1 | 100% | | 101 | 101 | | |
| | | Generator, silenced, 75dB(A) at 7m | CNP 102 | 1 | 100% | | 100 | 100 | | |
| | | Water pump (electric) | CNP 281 | 1 | 100% | | 88 | 88 | | |
| | | Poker, vibratory, hand-held | C6/40 | 1 | 100% | | 98 | 98 | | |
| | | Silent Piler | [2] | 1 | 100% | | 100 | 100 | | |
| | | Concrete truck | C6/23 | 1 | 100% | | 100 | 100 | | |
| | | Mobile crane | C7/114 | 1 | 100% | | 101 | 101 | | |
| 6 | Demolish existing structures | Excavator/loader, wheeled/tracked | C3/97 | 1 | 100% | | 105 | 105 | 112 | |
| | | Breaker, hand-held, mass > 10kg and < 20kg | CNP 024 | 1 | 100% | | 108 | 108 | | |
| | | Air Compressor, air flow > 10m ³ /min and < 30m ³ /min | CNP 002 | 1 | 100% | | 102 | 102 | | |
| | | Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne | [1-a] | 1 | 100% | | 105 | 105 | | |
| | | | | | | | | | | |
| 7 | Extend subway | Excavator/loader, wheeled/tracked | C3/97 | 1 | 100% | | 105 | 105 | 113 | |
| | | Breaker, hand-held, mass > 10kg and < 20kg | CNP 024 | 1 | 100% | | 108 | 108 | | |
| | | Air Compressor, air flow > 10m ³ /min and < 30m ³ /min | CNP 002 | 1 | 100% | | 102 | 102 | | |
| | | Poker, vibratory, hand-held | C6/40 | 1 | 100% | | 98 | 98 | | |
| | | Saw, circular, wood | CNP 201 | 1 | 100% | | 108 | 108 | | |
| | | Bar bender and cutter (electric) | CNP 021 | 1 | 100% | | 90 | 90 | | |
| | | Concrete truck | C6/23 | 1 | 100% | | 100 | 100 | | |
| | | Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne | [1-a] | 1 | 100% | | 105 | 105 | | |
| 8 | Construct pilecaps and | Excavator/loader, wheeled/tracked | C3/97 | 1 | 100% | | 105 | 105 | 111 | |
| | | Saw, circular, wood | CNP 201 | 1 | 100% | -5 | 108 | 103 | | |
| | | Bar bender and cutter (electric) | CNP 021 | 1 | 100% | | 90 | 90 | | |
| | | Drill/grinder, hand-held (electric) | CNP 065 | 1 | 100% | | 98 | 98 | | |
| | | Generator, silenced, 75dB(A) at 7m | CNP 102 | 1 | 100% | | 100 | 100 | | |
| | | Water pump (electric) | CNP 281 | 1 | 100% | | 88 | 88 | | |
| | | Silent Piler | [2] | 1 | 100% | | 100 | 100 | | |
| | | Poker, vibratory, hand-held | C6/40 | 1 | 100% | | 98 | 98 | | |
| | | Concrete truck | C6/23 | 1 | 100% | | 100 | 100 | | |
| | | Concrete pump, stationary/lorry mounted | C6/36 | 1 | 100% | | 106 | 106 | | |
| 9 | Construct flyover | Mobile crane | C7/114 | 1 | 100% | | 101 | 101 | 109 | |
| | | Concrete pump, stationary/lorry mounted | C6/36 | 1 | 100% | | 106 | 106 | | |
| | | Lorry, 5.5 tonne < gross vehicle weight < 38 tonne | [1-d] | 1 | 100% | | 105 | 105 | | |

Construction Plant Inventory (With Mitigation)**(Construction Method for Flyover A : Option 1 - Precast Segmental Balanced Cantilever Box Girder)**

| No. | Activities | Plant | CNP/BS 5228/QPME ref. | No. of PME | On- time % | Barrier / Enclosure dB(A) ^[3] | Unit SWL, dB(A) | SWL, dB(A) | Total SWL, dB(A) ^[4] | Group ^[5] |
|----------------------------|--|--|-----------------------------|---------------|---------------|--|--------------------|---------------|------------------------------------|----------------------|
| 10 | Install concrete parapets and planters | Mobile crane | C7/114 | 1 | 100% | | 101 | 101 | 106 | |
| | | Crane lorry, 5.5 tonne < gross vehicle weight < 38 tonne | [1-b] | 1 | 100% | | 105 | 105 | | |
| 11 | Road resurfacing and | Road planer or miller | CNP 184 | 1 | 100% | | 111 | 111 | 112 | A |
| | | Road roller | C8/30 | 1 | 100% | | 101 | 101 | | B |
| | | Asphalt paver | C8/24 | 1 | 100% | | 101 | 101 | | B |
| | | Paint line marker | CNP 161 | 1 | 100% | | 90 | 90 | | B |
| | | Paint line remover | [1-c] | 1 | 100% | | 104 | 104 | | B |
| 12 | Install noise barriers | Mobile crane | C7/114 | 1 | 100% | | 101 | 101 | 106 | |
| | | Crane lorry, 5.5 tonne < gross vehicle weight < 38 tonne | [1-b] | 1 | 100% | | 105 | 105 | | |
| 13 | Pavement construction | Asphalt paver | C8/24 | 1 | 100% | | 101 | 101 | 104 | |
| | | Road roller | C8/30 | 1 | 100% | | 101 | 101 | | |
| CONCURRENT PROJECTS | | | | | | | | | | |
| 1 | Site formation | Excavator, wheeled / tracked, Kobelco | EPD 00057 | 1 | 100% | | 103 | 103 | 107 | |
| | | Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne | [1-a] | 1 | 100% | | 105 | 105 | | |
| 2 | Box culvert | Excavator/loader, wheeled/tracked | C3/97 | 1 | 100% | | 105 | 105 | 111 | |
| | | Saw, circular, wood | CNP 201 | 1 | 100% | | 108 | 108 | | |
| | | Bar bender and cutter (electric) | CNP 021 | 1 | 100% | | 90 | 90 | | |
| | | Drill/grinder, hand-held (electric) | CNP 065 | 1 | 100% | | 98 | 98 | | |
| | | Generator, silenced, 75dB(A) at 7m | CNP 102 | 1 | 100% | | 100 | 100 | | |
| | | Water pump (electric) | CNP 281 | 1 | 100% | | 88 | 88 | | |
| | | Poker, vibratory, hand-held | C6/40 | 1 | 100% | | 98 | 98 | | |
| 3 | Retaining wall construction & associated works | Excavator/loader, wheeled/tracked | C3/97 | 1 | 100% | | 105 | 105 | 113 | |
| | | Roller, vibratory | CNP 186 | 1 | 100% | | 108 | 108 | | |
| | | Generator, silenced, 75dB(A) at 7m | CNP 102 | 1 | 100% | | 100 | 100 | | |
| | | Water pump (electric) | CNP 281 | 1 | 100% | | 88 | 88 | | |
| | | Poker, vibratory, hand-held | C6/40 | 1 | 100% | | 98 | 98 | | |
| | | Concrete lorry mixer | CNP 044 | 1 | 100% | | 109 | 109 | | |
| | | Crane lorry, 5.5 tonne < gross vehicle weight < 38 tonne | [1-b] | 1 | 100% | | 105 | 105 | | |
| 4 | Road embankment | Excavator/loader, wheeled/tracked | C3/97 | 1 | 100% | | 105 | 105 | 110 | |
| | | Roller, vibratory | CNP 186 | 1 | 100% | | 108 | 108 | | |
| 5 | Road drainage, utilities & water mains works | Excavator/loader, wheeled/tracked | C3/97 | 1 | 100% | -5 | 105 | 100 | 107 | |
| | | Crane lorry, 5.5 tonne < gross vehicle weight < 38 tonne | [1-b] | 1 | 100% | -5 | 105 | 100 | | |
| | | Breaker, hand-held, mass > 10kg and < 20kg | CNP 024 | 1 | 100% | -5 | 108 | 103 | | |
| | | Air Compressor, air flow > 10m ³ /min and < 30m ³ /min | CNP 002 | 1 | 100% | -5 | 102 | 97 | | |
| 6 | Pavement construction | Asphalt paver | C8/24 | 1 | 100% | | 101 | 101 | 104 | |
| | | Road roller | C8/30 | 1 | 100% | | 101 | 101 | | |

Notes:

[1] SWL refer to the document prepared by the Noise Control Authority (http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

[1-a] Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne

[1-b] Crane lorry, 5.5 tonne < gross vehicle weight < 38 tonne

[1-c] Paint line remover

[2] Reference was made to "Project Profile for Prince Edward Station Pedestrian Subway Extension and Entrance Modification Works (Register No. PP-253/2005)"

[3] A 5dB(A) reduction provided by the use of movable noise barrier or acoustic enclosure.

[4] The figures are rounded-up to a whole number.

[5] Maximum total SWL from different groups was adopted for calculation.

Construction Plant Inventory (With Mitigation)**(Construction Method for Flyover A : Option 2 : Cast In-situ Deck with Conventional Temporary Works)**

| No. | Activities | Plant | CNP /BS 5228 /QPME ref. | No. of PME | On- time % | Barrier / Enclosure dB(A) ^[3] | Unit SWL, dB(A) | SWL, dB(A) | Total SWL, dB(A) ^[4] | Group ^[5] |
|--|--------------------------|--|-------------------------------|---------------|---------------|--|--------------------|---------------|------------------------------------|----------------------|
| DESIGNATED PROJECT | | | | | | | | | | |
| Improvement to Pok Oi Interchange | | | | | | | | | | |
| 9 | Construct flyover | Lorry, 5.5 tonne < gross vehicle weight < 38 | [1-d] | 1 | 100% | | 105 | 105 | 111 | |
| | | Bar bender and cutter (electric) | CNP 021 | 1 | 100% | | 90 | 90 | | |
| | | Drill/grinder, hand-held (electric) | CNP 065 | 2 | 100% | | 98 | 101 | | |
| | | Generator, silenced, 75dB(A) at 7m | CNP 102 | 1 | 100% | | 100 | 100 | | |
| | | Concrete truck | C6/23 | 1 | 100% | | 100 | 100 | | |
| | | Concrete pump, stationary /lorry mounted | C6/36 | 1 | 100% | | 106 | 106 | | |
| | | Poker, vibratory, hand-held | C6/40 | 2 | 100% | | 98 | 101 | | |
| | | Mobile crane | C7/114 | 1 | 100% | | 101 | 101 | | |

Notes:

- [1] SWL refer to the document prepared by the Noise Control Authority (http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)
- [1-a] Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne
- [1-b] Crane lorry, 5.5 tonne < gross vehicle weight < 38 tonne
- [1-c] Paint line remover
- [2] Reference was made to "Project Profile for Prince Edward Station Pedestrian Subway Extension and Entrance Modification Works (Register No. PP-253/2005)"
- [3] A 5dB(A) reduction provided by the use of movable noise barrier or acoustic enclosure.
- [4] The figures are rounded-up to a whole number.
- [5] Maximun total SWL from different groups was adopted for calculation.

Proposed Mitigation Measures for Slip Road A facing Kwong Ming Ying Loi School

| No. | Activities | Plant | CNP /BS 5228 ref. | No. of PME | On- time % | Unit SWL, dB(A) | Barrier, dB(A) ^[3] | Mitigated SWL, dB(A) | Total SWL, dB(A) ^[4] | Group ^[5] |
|-----|---|--|----------------------|---------------|------------------|--------------------|----------------------------------|-------------------------|------------------------------------|----------------------|
| 1 | Site clearance | Excavator/loader, wheeled/tracked | C3/97 | 1 | 100% | 105 | -5 | 100 | 103 | |
| | | Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne | [1-a] | 1 | 100% | 105 | -5 | 100 | | |
| 2 | Site formation | Excavator/loader, wheeled/tracked | C3/97 | 1 | 100% | 105 | -5 | 100 | 104 | |
| | | Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne | [1-a] | 1 | 100% | 105 | -5 | 100 | | |
| | | Vibratory roller | C3/115 | 1 | 100% | 102 | -5 | 97 | | |
| 4 | Road drainage, utilities & water mains works | Excavator/loader, wheeled/tracked | C3/97 | 1 | 100% | 105 | -5 | 100 | 107 | A |
| | | Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne | [1-a] | 1 | 100% | 105 | -5 | 100 | | A |
| | | Mobile crane | C7/114 | 1 | 100% | 101 | -5 | 96 | A | |
| | | Breaker, hand-held, mass > 10kg and < 20kg | CNP 024 | 1 | 100% | 108 | -5 | 103 | B | |
| | | Air Compressor, air flow > 10m ³ /min and < 30m ³ /min | CNP 002 | 1 | 100% | 102 | -5 | 97 | B | |
| | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | Excavator/loader, wheeled/tracked | C3/97 | 1 | 100% | 105 | -5 | 100 | 106 | |
| | | Road roller | C8/30 | 1 | 100% | 101 | -5 | 96 | | |
| | | Generator, silenced, 75dB(A) at 7m | CNP 102 | 1 | 100% | 100 | -5 | 95 | | |
| | | Water pump (electric) | CNP 281 | 1 | 100% | 88 | -5 | 83 | | |
| | | Poker, vibratory, hand-held | C6/40 | 1 | 100% | 98 | -5 | 93 | | |
| | | Silent Piler | [2] | 1 | 100% | 100 | | 100 | | |
| | | Concrete truck | C6/23 | 1 | 100% | 100 | -5 | 95 | | |
| | | Mobile crane | C7/114 | 1 | 100% | 101 | -5 | 96 | | |

Notes:

[1] SWLs of the following plant items refer to the document prepared by the Noise Control Authority (http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

[1-a] Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne

[2] Reference was made to "Project Profile for Prince Edward Station Pedestrian Subway Extension and Entrance Modification Works (Register No. PP-253/2005)"

[3] A 5dB(A) reduction provided by the use of movable noise barrier.

[4] The figures are rounded-up to a whole number.

[5] Maximum total SWL from different groups was adopted for calculation.

Annex C10-4 Summary of Predicted Noise Levels during Daytime Period (With Mitigation)
(Construction Method for Flyover A : Option 1 - Precast Segmental Balanced Cantilever Box Girder)

| | NSR Location | Predicted Construction Noise Level (dB(A)) | | | | | | | | | | | | | | | | | | | | | | | | Max. CNL dB(A) | |
|-------|---|--|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|-----|
| | | 2009 | 2010 | | | | | | | | | | | | 2011 | | | | | | | | | | | | |
| | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | | Dec |
| JCCA1 | Jockey Club Care & Attention Home – western facade | 67 | 67 | 67 | 69 | 69 | 70 | 70 | 70 | 70 | 69 | 72 | 72 | 68 | 71 | 69 | 69 | 64 | 64 | 64 | 64 | 63 | 63 | 61 | 61 | 72 | |
| JCCA2 | Jockey Club Care & Attention Home – southern facade | 67 | 67 | 67 | 69 | 69 | 70 | 70 | 70 | 70 | 69 | 72 | 72 | 67 | 71 | 66 | 66 | 62 | 62 | 62 | 61 | 61 | 58 | 58 | 50 | 50 | 72 |
| KMYS1 | Kwong Ming Ying Loi School | 63 | 63 | 63 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 69 | 69 | 69 | 69 | 58 | 58 | 70 | |
| KMYS2 | Kwong Ming Ying Loi School | 63 | 63 | 63 | 64 | 64 | 64 | 65 | 65 | 65 | 68 | 68 | 69 | 69 | 69 | 68 | 68 | 69 | 69 | 69 | 69 | 69 | 69 | 47 | 47 | 69 | |
| STNV1 | Small Traders New Village | 60 | 60 | 60 | 63 | 63 | 64 | 64 | 64 | 64 | 63 | 65 | 65 | 61 | 64 | 75 | 75 | 58 | 58 | 58 | 57 | 57 | 63 | 63 | 62 | 62 | 75 |
| V1 | Village house facing slip road (south bound) of Yuen Long Highway - | 63 | 63 | 63 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 68 | 68 | 67 | 68 | 67 | 67 | 65 | 65 | 65 | 65 | 65 | 61 | 61 | 56 | 56 | 68 |
| V2 | Village house facing slip road (south bound) of Yuen Long Highway - | 64 | 64 | 64 | 67 | 67 | 68 | 68 | 68 | 68 | 68 | 69 | 69 | 69 | 69 | 69 | 69 | 67 | 67 | 67 | 67 | 67 | 63 | 63 | 56 | 56 | 69 |
| V3 | Village house at Chuk San Tsuen | 65 | 65 | 65 | 66 | 66 | 66 | 68 | 68 | 67 | 67 | 67 | 67 | 67 | 67 | 62 | 62 | 54 | 54 | 54 | 54 | 54 | 49 | 49 | 39 | 39 | 68 |
| V6 | Village house at Hoover Garden | 59 | 59 | 59 | 61 | 61 | 61 | 62 | 62 | 61 | 63 | 63 | 63 | 63 | 63 | 62 | 62 | 60 | 60 | 60 | 60 | 60 | 56 | 56 | 50 | 50 | 63 |
| WUT1 | 178 Wong Uk Tsuen | 60 | 60 | 60 | 64 | 64 | 64 | 65 | 64 | 64 | 63 | 65 | 66 | 62 | 64 | 65 | 65 | 59 | 59 | 59 | 58 | 58 | 74 | 74 | 74 | 74 | 74 |
| YT1 | Block 2, YOHO Town | 59 | 59 | 59 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 64 | 64 | 63 | 64 | 64 | 64 | 62 | 62 | 62 | 62 | 62 | 59 | 59 | 55 | 55 | 64 |

**Annex C10-5 Summary of Predicted Cumulative Noise Levels during Daytime Period (With Mitigation)
(Construction Method for Flyover A : Option 1 - Precast Segmental Balanced Cantilever Box Girder)**

| | NSR Location | Predicted Cumulative Construction Noise Level (dB(A)) | | | | | | | | | | | | | | | | | | | | | | | | Max. CNL dB(A) | |
|-------|---|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|-----|
| | | 2009 | 2010 | | | | | | | | | | | | 2011 | | | | | | | | | | | | |
| | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | | Dec |
| JCCA1 | Jockey Club Care & Attention Home – western facade | 67 | 68 | 68 | 70 | 70 | 71 | 71 | 70 | 70 | 70 | 73 | 73 | 68 | 71 | 69 | 69 | 64 | 64 | 64 | 64 | 63 | 63 | 61 | 61 | 73 | |
| JCCA2 | Jockey Club Care & Attention Home – southern facade | 67 | 68 | 68 | 70 | 70 | 70 | 70 | 70 | 70 | 69 | 72 | 72 | 68 | 71 | 67 | 67 | 62 | 62 | 62 | 61 | 61 | 58 | 58 | 50 | 50 | 72 |
| KMYS1 | Kwong Ming Ying Loi School | 64 | 68 | 68 | 70 | 70 | 70 | 70 | 69 | 69 | 69 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 69 | 69 | 69 | 69 | 58 | 58 | 70 |
| KMYS2 | Kwong Ming Ying Loi School | 63 | 63 | 63 | 64 | 64 | 64 | 66 | 65 | 65 | 68 | 68 | 69 | 69 | 69 | 68 | 68 | 69 | 69 | 69 | 69 | 69 | 69 | 47 | 47 | 69 | |
| STNV1 | Small Traders New Village | 65 | 66 | 66 | 67 | 66 | 67 | 67 | 66 | 66 | 66 | 68 | 68 | 67 | 67 | 75 | 75 | 58 | 58 | 58 | 57 | 57 | 63 | 63 | 62 | 62 | 75 |
| V1 | Village house facing slip road (south bound) of Yuen Long Highway - | 63 | 64 | 64 | 67 | 67 | 67 | 68 | 67 | 67 | 67 | 68 | 68 | 67 | 68 | 67 | 67 | 65 | 65 | 65 | 65 | 65 | 61 | 61 | 56 | 56 | 68 |
| V2 | Village house facing slip road (south bound) of Yuen Long Highway - | 66 | 66 | 66 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 70 | 70 | 70 | 70 | 70 | 70 | 67 | 67 | 67 | 67 | 67 | 63 | 63 | 56 | 56 | 70 |
| V3 | Village house at Chuk San Tsuen | 65 | 65 | 65 | 66 | 66 | 66 | 68 | 68 | 67 | 67 | 67 | 67 | 67 | 67 | 62 | 62 | 54 | 54 | 54 | 54 | 54 | 49 | 49 | 39 | 39 | 68 |
| V6 | Village house at Hoover Garden | 59 | 60 | 60 | 61 | 61 | 61 | 62 | 62 | 62 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 60 | 60 | 60 | 60 | 60 | 56 | 56 | 50 | 50 | 63 |
| WUT1 | 178 Wong Uk Tsuen | 73 | 73 | 73 | 73 | 72 | 72 | 72 | 72 | 72 | 72 | 74 | 74 | 74 | 74 | 74 | 74 | 59 | 59 | 59 | 58 | 58 | 74 | 74 | 74 | 74 | 74 |
| YT1 | Block 2, YOHO Town | 59 | 61 | 61 | 64 | 64 | 64 | 64 | 63 | 63 | 63 | 64 | 64 | 64 | 64 | 64 | 64 | 62 | 62 | 62 | 62 | 62 | 59 | 59 | 55 | 55 | 64 |

Annex C10-8

Construction Noise Assessment (With Mitigation) (Construction Method for Flyover A : Option 1 - Precast Segmental Balanced Cantilever Box Girder)

NSR: KMYLS1 Kwong Ming Ying Loi School

| No. | Activity Description | SWL dB(A) ^[2] | Distance m | Corr. For Distance dB(A) ^{[1][2]} | Corr. For Topo dB(A) ^[3] | Corr. For façade dB(A) | Predicted Construction Noise Level (dB(A)) ^[2] | | | | | | | | | | | | | | | | | | | | | | | | Max. CNL dB(A) | | | | |
|---|---|-----------------------------|---------------|--|---|------------------------------|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|-----|----|----|----|
| | | | | | | | 2009 | 2010 | | | | | | | | | | | | 2011 | | | | | | | | | | | | | | | |
| | | | | | | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | | Dec | | | |
| DESIGNATED PROJECT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Improvement to Pok Oi Interchange | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I Flyover A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 115 | -49 | 0 | 3 | 62 | 62 | 62 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Piling | 115 | 115 | -49 | 0 | 3 | | | | 68 | 68 | 68 | 68 | 68 | 68 | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 115 | -49 | 0 | 3 | | | | | | | | | | | | | | | 64 | 64 | | | | | | | | | | | | | |
| 8 | Construct pilecaps and piers | 111 | 115 | -49 | 0 | 3 | | | | | | | | | | | | | | | | | 65 | 65 | | | | | | | | | | | |
| 9 | Construct flyover | 109 | 115 | -49 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 115 | -49 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 115 | -49 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | 58 | 58 | | | | | | |
| II Slip Road A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 103 | 40 | -40 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 104 | 40 | -40 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 104 | 40 | -40 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 106 | 40 | -40 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 106 | 40 | -40 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| III Slip Road B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 255 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 255 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 255 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 255 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 255 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IV Slip Road C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 130 | -50 | -10 | 3 | 51 | 51 | 51 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 130 | -50 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 130 | -50 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 130 | -50 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 130 | -50 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V Left-turn Lane A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 220 | -55 | 0 | 3 | 56 | 56 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 220 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 220 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 220 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Extend subway | 113 | 220 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 220 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Demolish existing structures | 112 | 220 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 220 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VI Road Resurfacing and Remarking A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 330 | -58 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VII Road Resurfacing and Remarking B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 250 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONCURRENT PROJECTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kau Hui Development - Engineering Works in Area 16, | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yuen Long Phase 2 - Extension of Road L3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 108 | 360 | -59 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Box culvert | 109 | 360 | -59 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Retaining wall construction & associated works | 115 | 360 | -59 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road embankment | 110 | 360 | -59 | 0 | 3 | 54 | 54 | 54 | 54 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 110 | 360 | -59 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 112 | 360 | -59 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proposed Left Turn Lane at POI for the Development at YOHO Town Phase II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 107 | 70 | -45 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 107 | 70 | -45 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 104 | 70 | -45 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Predicted Noise Level during Daytime Period, dB(A) | | | | | | | 63 | 63 | 63 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 69 | 69 | 69 | 69 | 58 | 58 | 70 | |
| Predicted Cumulative Noise Level during Daytime Period, dB(A) | | | | | | | 64 | 68 | 68 | 70 | 70 | 70 | 70 | 69 | 69 | 69 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 69 | 69 | 69 | 69 | 58 | 58 | 70 |

Note:

[1] Distance Correction for PMEs = 10*log(2*Pi*r²)

[2] The figures are rounded-up to a whole number.

[3] Correction of 10 dB(A) provided where there is no direct line of sight from the NSR to the work site

Annex C10-9

Construction Noise Assessment (With Mitigation) (Construction Method for Flyover A : Option 1 - Precast Segmental Balanced Cantilever Box Girder)

NSR: KMYLS2 Kwong Ming Ying Loi School

| No. | Activity Description | SWL dB(A) ^[2] | Distance m | Corr. For Distance dB(A) ^{[1][2]} | Corr. For Topo dB(A) ^[3] | Corr. For façade dB(A) | Predicted Construction Noise Level (dB(A)) ^[2] | | | | | | | | | | | | | | | | | | | | | | | | Max. CNL dB(A) |
|---|---|--------------------------|------------|--|-------------------------------------|------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|
| | | | | | | | 2010 | | | | | | | | | | | | 2011 | | | | | | | | | | | | |
| | | | | | | | 2009 Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | |
| DESIGNATED PROJECT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Improvement to Pok Oi Interchange | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I Flyover A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 135 | -51 | -10 | 3 | 50 | 50 | 50 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Piling | 115 | 135 | -51 | -10 | 3 | | | | 57 | 57 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 135 | -51 | -10 | 3 | | | | | | | | | | | | | | | 53 | 53 | | | | | | | | | |
| 8 | Construct pilecaps and piers | 111 | 135 | -51 | -10 | 3 | | | | | | | | | | | | | | | | | 54 | 54 | | | | | | | |
| 9 | Construct flyover | 109 | 135 | -51 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 135 | -51 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 135 | -51 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| II Slip Road A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 103 | 40 | -40 | 0 | 3 | | | | | | | | | | | | | | | 66 | 66 | | | | | | | | | |
| 2 | Site formation | 104 | 40 | -40 | 0 | 3 | | | | | | | | | | | | | | | | | 67 | 67 | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 104 | 40 | -40 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 106 | 40 | -40 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 106 | 40 | -40 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| III Slip Road B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 270 | -57 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 270 | -57 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 270 | -57 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 270 | -57 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 270 | -57 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| IV Slip Road C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 110 | -49 | 0 | 3 | 62 | 62 | 62 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 110 | -49 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 110 | -49 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 110 | -49 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 110 | -49 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| V Left-turn Lane A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 250 | -56 | -10 | 3 | 45 | 45 | 45 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 250 | -56 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 250 | -56 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 250 | -56 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Extend subway | 113 | 250 | -56 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 250 | -56 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Demolish existing structures | 112 | 250 | -56 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 250 | -56 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| VI Road Resurfacing and Remarking A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 350 | -59 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| VII Road Resurfacing and Remarking B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 280 | -57 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONCURRENT PROJECTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kau Hui Development - Engineering Works in Area 16, | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yuen Long Phase 2 - Extension of Road L3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 108 | 400 | -60 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Box culvert | 109 | 400 | -60 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Retaining wall construction & associated works | 115 | 400 | -60 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road embankment | 110 | 400 | -60 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 110 | 400 | -60 | -10 | 3 | 43 | 43 | 43 | 43 | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 112 | 400 | -60 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proposed Left Turn Lane at POI for the Development at YOHO Town Phase II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 107 | 100 | -48 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 107 | 100 | -48 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 104 | 100 | -48 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Predicted Noise Level during Daytime Period, dB(A) | | | | | | | 63 | 63 | 63 | 64 | 64 | 64 | 65 | 65 | 65 | 65 | 68 | 68 | 69 | 69 | 69 | 68 | 68 | 69 | 69 | 69 | 69 | 69 | | | |
| Predicted Cumulative Noise Level during Daytime Period, dB(A) | | | | | | | 63 | 63 | 63 | 64 | 64 | 64 | 66 | 65 | 65 | 68 | 68 | 69 | 69 | 69 | 68 | 68 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | |

Note:

[1] Distance Correction for PMEs = 10*log(2*Pi*r²)

[2] The figures are rounded-up to a whole number.

[3] Correction of 10 dB(A) provided where there is no direct line of sight from the NSR to the work site

Annex C10-11

Construction Noise Assessment (With Mitigation) (Construction Method for Flyover A : Option 1 - Precast Segmental Balanced Cantilever Box Girder)

NSR: V1 Village house facing slip road (south bound) of Yuen Long Highway - south of POI

| No. | Activity Description | SWL dB(A) ^[2] | Distance m | Corr. For Distance dB(A) ^{[1][2]} | Corr. For Topo dB(A) ^[3] | Corr. For façade dB(A) | Predicted Construction Noise Level (dB(A)) ^[2] | | | | | | | | | | | | | | | | | | | | | | | | Max. CNL dB(A) | | | | | |
|---|---|--------------------------|------------|--|-------------------------------------|------------------------|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|-----|----|----|----|----|
| | | | | | | | 2009 | 2010 | | | | | | | | | | | | 2011 | | | | | | | | | | | | | | | | |
| | | | | | | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | | Dec | | | | |
| DESIGNATED PROJECT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Improvement to Pok Oi Interchange | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I Flyover A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 170 | -53 | 0 | 3 | 58 | 58 | 58 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Piling | 115 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 170 | -53 | 0 | 3 | | | | 65 | 65 | 65 | 65 | 65 | 65 | | | | | | | | | | | | | | | | | | | | | |
| 8 | Construct pilecaps and piers | 111 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Construct flyover | 109 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| II Slip Road A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| III Slip Road B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 290 | -57 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 290 | -57 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 290 | -57 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 290 | -57 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 290 | -57 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IV Slip Road C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 160 | -52 | 0 | 3 | 59 | 59 | 59 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 160 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 160 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 160 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 160 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V Left-turn Lane A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 210 | -54 | 0 | 3 | 57 | 57 | 57 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Extend subway | 113 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Demolish existing structures | 112 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VI Road Resurfacing and Remarking A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 345 | -59 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VII Road Resurfacing and Remarking B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 300 | -58 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONCURRENT PROJECTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kau Hui Development - Engineering Works in Area 16, Yuen Long Phase 2 - Extension of Road L3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 108 | 450 | -61 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Box culvert | 109 | 450 | -61 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Retaining wall construction & associated works | 115 | 450 | -61 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road embankment | 110 | 450 | -61 | 0 | 3 | 52 | 52 | 52 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 110 | 450 | -61 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 112 | 450 | -61 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proposed Left Turn Lane at POI for the Development at YOHO Town Phase II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 107 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 107 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 104 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Predicted Noise Level during Daytime Period, dB(A) | | | | | | | 63 | 63 | 63 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 68 | 68 | 67 | 68 | 67 | 67 | 67 | 65 | 65 | 65 | 65 | 65 | 61 | 61 | 56 | 56 | 68 | |
| Predicted Cumulative Noise Level during Daytime Period, dB(A) | | | | | | | 63 | 64 | 64 | 67 | 67 | 67 | 68 | 67 | 67 | 67 | 67 | 68 | 68 | 67 | 68 | 67 | 67 | 67 | 67 | 67 | 65 | 65 | 65 | 65 | 65 | 61 | 61 | 56 | 56 | 68 |

Note:

[1] Distance Correction for PMEs = 10*log(2*Pi*r²)

[2] The figures are rounded-up to a whole number.

[3] Correction of 10 dB(A) provided where there is no direct line of sight from the NSR to the work site

Annex C10-12

Construction Noise Assessment (With Mitigation) (Construction Method for Flyover A : Option 1 - Precast Segmental Balanced Cantilever Box Girder)

NSR: V2 Village house facing slip road (south bound) of Yuen Long Highway - south of POI

| No. | Activity Description | SWL dB(A) ^[2] | Distance m | Corr. For Distance dB(A) ^{[1][2]} | Corr. For Topo dB(A) ^[3] | Corr. For façade dB(A) | Predicted Construction Noise Level (dB(A)) ^[2] | | | | | | | | | | | | | | | | | | | | | | | | Max. CNL dB(A) |
|---|---|--------------------------|------------|--|-------------------------------------|------------------------|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|
| | | | | | | | 2009 | 2010 | | | | | | | | | | | | 2011 | | | | | | | | | | | |
| | | | | | | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | |
| DESIGNATED PROJECT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Improvement to Pok Oi Interchange | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I Flyover A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 165 | -52 | 0 | 3 | 59 | 59 | 59 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Piling | 115 | 165 | -52 | 0 | 3 | | | | 65 | 65 | 65 | 65 | 65 | 65 | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 165 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Construct pilecaps and piers | 111 | 165 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Construct flyover | 109 | 165 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 165 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 165 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| II Slip Road A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 85 | -47 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 85 | -47 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 85 | -47 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 85 | -47 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 85 | -47 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| III Slip Road B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 300 | -58 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 300 | -58 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 300 | -58 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 300 | -58 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 300 | -58 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| IV Slip Road C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 120 | -50 | 0 | 3 | 61 | 61 | 61 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| V Left-turn Lane A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 235 | -55 | 0 | 3 | 56 | 56 | 56 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 235 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 235 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 235 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Extend subway | 113 | 235 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 235 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Demolish existing structures | 112 | 235 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 235 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| VI Road Resurfacing and Remarking A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 370 | -59 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| VII Road Resurfacing and Remarking B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 300 | -58 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONCURRENT PROJECTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kau Hui Development - Engineering Works in Area 16, Yuen Long Phase 2 - Extension of Road L3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 108 | 150 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Box culvert | 109 | 150 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Retaining wall construction & associated works | 115 | 150 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road embankment | 110 | 150 | -52 | 0 | 3 | 62 | 62 | 62 | 62 | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 110 | 150 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 112 | 150 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proposed Left Turn Lane at POI for the Development at YOHO Town Phase II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 107 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 107 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 104 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Predicted Noise Level during Daytime Period, dB(A) | | | | | | | 64 | 64 | 64 | 67 | 67 | 68 | 68 | 68 | 68 | 68 | 68 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | | |
| Predicted Cumulative Noise Level during Daytime Period, dB(A) | | | | | | | 66 | 66 | 66 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |

Note:

[1] Distance Correction for PMEs = 10*log(2*Pi*r²)

[2] The figures are rounded-up to a whole number.

[3] Correction of 10 dB(A) provided where there is no direct line of sight from the NSR to the work site

Annex C10-13

Construction Noise Assessment (With Mitigation) (Construction Method for Flyover A : Option 1 - Precast Segmental Balanced Cantilever Box Girder)

NSR: V3 Village house at Chuk San Tsuen

| No. | Activity Description | SWL dB(A) ^[2] | Distance m | Corr. For Distance dB(A) ^{[1][2]} | Corr. For Topo dB(A) ^[3] | Corr. For façade dB(A) | Predicted Construction Noise Level (dB(A)) ^[2] | | | | | | | | | | | | | | | | | | | | | | | | Max. CNL dB(A) |
|---|---|--------------------------|------------|--|-------------------------------------|------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|
| | | | | | | | 2010 | | | | | | | | | | | | 2011 | | | | | | | | | | | | |
| | | | | | | | 2009 Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | |
| DESIGNATED PROJECT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Improvement to Pok Oi Interchange | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I Flyover A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 530 | -62 | 0 | 3 | 49 | 49 | 49 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Piling | 115 | 530 | -62 | 0 | 3 | | | | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 530 | -62 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Construct pilecaps and piers | 111 | 530 | -62 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Construct flyover | 109 | 530 | -62 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 530 | -62 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 530 | -62 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| II Slip Road A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 130 | -50 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 130 | -50 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 130 | -50 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 130 | -50 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 130 | -50 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| III Slip Road B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 680 | -65 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 680 | -65 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 680 | -65 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 680 | -65 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 680 | -65 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| IV Slip Road C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 25 | -36 | -10 | 3 | 65 | 65 | 65 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 25 | -36 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 25 | -36 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 25 | -36 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 25 | -36 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| V Left-turn Lane A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 635 | -64 | 0 | 3 | 47 | 47 | 47 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 635 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 635 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 635 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Extend subway | 113 | 635 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 635 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Demolish existing structures | 112 | 635 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 635 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| VI Road Resurfacing and Remarking A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 760 | -66 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| VII Road Resurfacing and Remarking B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 670 | -65 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONCURRENT PROJECTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kau Hui Development - Engineering Works in Area 16, Yuen Long Phase 2 - Extension of Road L3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 108 | 820 | -66 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Box culvert | 109 | 820 | -66 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Retaining wall construction & associated works | 115 | 820 | -66 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road embankment | 110 | 820 | -66 | -10 | 3 | 37 | 37 | 37 | 37 | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 110 | 820 | -66 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 112 | 820 | -66 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proposed Left Turn Lane at POI for the Development at YOHO Town Phase II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 107 | 490 | -62 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 107 | 490 | -62 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 104 | 490 | -62 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Predicted Noise Level during Daytime Period, dB(A) | | | | | | | 65 | 65 | 65 | 66 | 66 | 66 | 68 | 68 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 68 | | | |
| Predicted Cumulative Noise Level during Daytime Period, dB(A) | | | | | | | 65 | 65 | 65 | 66 | 66 | 66 | 68 | 68 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 68 | |

Note:

[1] Distance Correction for PMEs = 10*log(2*Pi*r²)

[2] The figures are rounded-up to a whole number.

[3] Correction of 10 dB(A) provided where there is no direct line of sight from the NSR to the work site

Annex C10-14

Construction Noise Assessment (With Mitigation) (Construction Method for Flyover A : Option 1 - Precast Segmental Balanced Cantilever Box Girder)

NSR: V6 Village house at Hoover Garden

| No. | Activity Description | SWL dB(A) ^[2] | Distance m | Corr. For Distance dB(A) ^{[1][2]} | Corr. For Topo dB(A) ^[3] | Corr. For façade dB(A) | Predicted Construction Noise Level (dB(A)) ^[2] | | | | | | | | | | | | | | | | | | | | | | | | Max. CNL dB(A) |
|---|---|--------------------------|------------|--|-------------------------------------|------------------------|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|
| | | | | | | | 2009 | 2010 | | | | | | | | | | | | 2011 | | | | | | | | | | | |
| | | | | | | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | |
| DESIGNATED PROJECT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Improvement to Pok Oi Interchange | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I Flyover A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 480 | -62 | 0 | 3 | 49 | 49 | 49 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Piling | 115 | 480 | -62 | 0 | 3 | | | | 56 | 56 | 56 | 56 | 56 | 56 | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 480 | -62 | 0 | 3 | | | | | | | | | | | | | | | 52 | 52 | | | | | | | | | |
| 8 | Construct pilecaps and piers | 111 | 480 | -62 | 0 | 3 | | | | | | | | | | | | | | | | | 53 | 53 | | | | | | | |
| 9 | Construct flyover | 109 | 480 | -62 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 480 | -62 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 480 | -62 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| II Slip Road A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 180 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 180 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 180 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 180 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 180 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| III Slip Road B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 620 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 620 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 620 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 620 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 620 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| IV Slip Road C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 180 | -53 | 0 | 3 | 58 | 58 | 58 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 180 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 180 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 180 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 180 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| V Left-turn Lane A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 600 | -64 | 0 | 3 | 47 | 47 | 47 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 600 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 600 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 600 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Extend subway | 113 | 600 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 600 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Demolish existing structures | 112 | 600 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 600 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| VI Road Resurfacing and Remarking A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 710 | -65 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| VII Road Resurfacing and Remarking B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 600 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONCURRENT PROJECTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kau Hui Development - Engineering Works in Area 16, | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yuen Long Phase 2 - Extension of Road L3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 108 | 810 | -66 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Box culvert | 109 | 810 | -66 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Retaining wall construction & associated works | 115 | 810 | -66 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road embankment | 110 | 810 | -66 | 0 | 3 | 47 | 47 | 47 | 47 | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 110 | 810 | -66 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 112 | 810 | -66 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proposed Left Turn Lane at POI for the Development at YOHO Town Phase II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 107 | 425 | -61 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 107 | 425 | -61 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 104 | 425 | -61 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Predicted Noise Level during Daytime Period, dB(A) | | | | | | | 59 | 59 | 59 | 61 | 61 | 61 | 62 | 62 | 61 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | | | |
| Predicted Cumulative Noise Level during Daytime Period, dB(A) | | | | | | | 59 | 60 | 60 | 61 | 61 | 61 | 62 | 62 | 62 | 62 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | | |

Note:

[1] Distance Correction for PMEs = 10*log(2*Pi*r²)

[2] The figures are rounded-up to a whole number.

[3] Correction of 10 dB(A) provided where there is no direct line of sight from the NSR to the work site

Annex C10-17 Summary of Predicted Noise Levels during Daytime Period (With Mitigation)
(Construction Method for Flyover A : Option 2 : Cast In-situ Deck with Conventional Temporary Works)

| | NSR Location | Predicted Construction Noise Level (dB(A)) | | | | | | | | | | | | | | | | | | | | | | | | Max. CNL dB(A) | |
|--------|---|--|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|-----|
| | | 2009 | 2010 | | | | | | | | | | | | 2011 | | | | | | | | | | | | |
| | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | | Dec |
| JCCAH1 | Jockey Club Care & Attention Home – western facade | 67 | 67 | 67 | 69 | 69 | 70 | 70 | 70 | 70 | 69 | 72 | 72 | 68 | 71 | 69 | 69 | 65 | 65 | 65 | 65 | 63 | 63 | 62 | 62 | 72 | |
| JCCAH2 | Jockey Club Care & Attention Home – southern facade | 67 | 67 | 67 | 69 | 69 | 70 | 70 | 70 | 70 | 69 | 72 | 72 | 67 | 71 | 66 | 66 | 63 | 63 | 63 | 63 | 59 | 59 | 56 | 56 | 72 | |
| KMYLS1 | Kwong Ming Ying Loi School | 63 | 63 | 63 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 61 | 61 | 70 | | |
| KMYLS2 | Kwong Ming Ying Loi School | 63 | 63 | 63 | 64 | 64 | 64 | 65 | 65 | 65 | 68 | 68 | 69 | 69 | 69 | 68 | 68 | 69 | 69 | 69 | 69 | 69 | 50 | 50 | 69 | | |
| STNV1 | Small Traders New Village | 60 | 60 | 60 | 63 | 63 | 64 | 64 | 64 | 64 | 63 | 65 | 65 | 61 | 64 | 75 | 75 | 59 | 59 | 59 | 59 | 59 | 63 | 63 | 62 | 62 | 75 |
| V1 | Village house facing slip road (south bound) of Yuen Long Highway - | 63 | 63 | 63 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 68 | 68 | 67 | 68 | 67 | 67 | 66 | 66 | 66 | 66 | 66 | 62 | 62 | 59 | 59 | 68 |
| V2 | Village house facing slip road (south bound) of Yuen Long Highway - | 64 | 64 | 64 | 67 | 67 | 68 | 68 | 68 | 68 | 68 | 69 | 69 | 69 | 69 | 69 | 69 | 68 | 68 | 68 | 68 | 63 | 63 | 59 | 59 | 69 | |
| V3 | Village house at Chuk San Tsuen | 65 | 65 | 65 | 66 | 66 | 66 | 68 | 68 | 67 | 67 | 67 | 67 | 67 | 67 | 62 | 62 | 55 | 55 | 55 | 55 | 55 | 50 | 50 | 46 | 46 | 68 |
| V6 | Village house at Hoover Garden | 59 | 59 | 59 | 61 | 61 | 61 | 62 | 62 | 61 | 63 | 63 | 63 | 63 | 63 | 62 | 62 | 61 | 61 | 61 | 61 | 61 | 56 | 56 | 52 | 52 | 63 |
| WUT1 | 178 Wong Uk Tsuen | 60 | 60 | 60 | 64 | 64 | 64 | 65 | 64 | 64 | 63 | 65 | 66 | 62 | 64 | 65 | 65 | 60 | 60 | 60 | 60 | 74 | 74 | 74 | 74 | 74 | |
| YT1 | Block 2, YOHO Town | 59 | 59 | 59 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 64 | 64 | 63 | 64 | 64 | 64 | 63 | 63 | 63 | 63 | 59 | 59 | 57 | 57 | 64 | |

Annex C10-18 Summary of Predicted Cumulative Noise Levels during Daytime Period (With Mitigation)
(Construction Method for Flyover A : Option 2 : Cast In-situ Deck with Conventional Temporary Works)

| | NSR Location | Predicted Cumulative Construction Noise Level (dB(A)) | | | | | | | | | | | | | | | | | | | | | | | | Max. CNL dB(A) | |
|--------|---|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|-----|
| | | 2009 | 2010 | | | | | | | | | | | | 2011 | | | | | | | | | | | | |
| | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | | Dec |
| JCCAH1 | Jockey Club Care & Attention Home – western facade | 67 | 68 | 68 | 70 | 70 | 71 | 71 | 70 | 70 | 70 | 73 | 73 | 68 | 71 | 69 | 69 | 65 | 65 | 65 | 65 | 63 | 63 | 62 | 62 | 73 | |
| JCCAH2 | Jockey Club Care & Attention Home – southern facade | 67 | 68 | 68 | 70 | 70 | 70 | 70 | 70 | 70 | 69 | 72 | 72 | 68 | 71 | 67 | 67 | 63 | 63 | 63 | 63 | 59 | 59 | 56 | 56 | 72 | |
| KMYLS1 | Kwong Ming Ying Loi School | 64 | 68 | 68 | 70 | 70 | 70 | 70 | 69 | 69 | 69 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 61 | 61 | 70 | |
| KMYLS2 | Kwong Ming Ying Loi School | 63 | 63 | 63 | 64 | 64 | 64 | 66 | 65 | 65 | 68 | 68 | 69 | 69 | 69 | 68 | 68 | 69 | 69 | 69 | 69 | 69 | 69 | 50 | 50 | 69 | |
| STNV1 | Small Traders New Village | 65 | 66 | 66 | 67 | 66 | 67 | 67 | 66 | 66 | 66 | 68 | 68 | 67 | 67 | 75 | 75 | 59 | 59 | 59 | 59 | 59 | 63 | 63 | 62 | 62 | 75 |
| V1 | Village house facing slip road (south bound) of Yuen Long Highway - | 63 | 64 | 64 | 67 | 67 | 67 | 68 | 67 | 67 | 67 | 68 | 68 | 67 | 68 | 67 | 67 | 66 | 66 | 66 | 66 | 66 | 62 | 62 | 59 | 59 | 68 |
| V2 | Village house facing slip road (south bound) of Yuen Long Highway - | 66 | 66 | 66 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 70 | 70 | 70 | 70 | 70 | 70 | 68 | 68 | 68 | 68 | 63 | 63 | 59 | 59 | 70 | |
| V3 | Village house at Chuk San Tsuen | 65 | 65 | 65 | 66 | 66 | 66 | 68 | 68 | 67 | 67 | 67 | 67 | 67 | 67 | 62 | 62 | 55 | 55 | 55 | 55 | 55 | 50 | 50 | 46 | 46 | 68 |
| V6 | Village house at Hoover Garden | 59 | 60 | 60 | 61 | 61 | 61 | 62 | 62 | 62 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 61 | 61 | 61 | 61 | 61 | 56 | 56 | 52 | 52 | 63 |
| WUT1 | 178 Wong Uk Tsuen | 73 | 73 | 73 | 73 | 72 | 72 | 72 | 72 | 72 | 72 | 74 | 74 | 74 | 74 | 74 | 74 | 60 | 60 | 60 | 60 | 60 | 74 | 74 | 74 | 74 | 74 |
| YT1 | Block 2, YOHO Town | 59 | 61 | 61 | 64 | 64 | 64 | 64 | 63 | 63 | 63 | 64 | 64 | 64 | 64 | 64 | 64 | 63 | 63 | 63 | 63 | 63 | 59 | 59 | 57 | 57 | 64 |

Annex C10-19

Construction Noise Assessment (With Mitigation) (Construction Method for Flyover A : Option 2 : Cast In-situ Deck with Conventional Temporary Works)

NSR: JCCAHI Jockey Club Care & Attention Home – western facade

| No. | Activity Description | SWL dB(A) ^[2] | Distance m | Corr. For Distance dB(A) ^{[1][2]} | Corr. For Topo dB(A) ^[3] | Corr. For façade dB(A) | Predicted Construction Noise Level (dB(A)) ^[2] | | | | | | | | | | | | | | | | | | | | | | | | Max. CNL dB(A) | | |
|---|---|--------------------------|------------|--|-------------------------------------|------------------------|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|-----|----|
| | | | | | | | 2009 | 2010 | | | | | | | | | | | | 2011 | | | | | | | | | | | | | |
| | | | | | | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | | Dec | |
| DESIGNATED PROJECT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Improvement to Pok Oi Interchange | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I Flyover A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 165 | -52 | 0 | 3 | 59 | 59 | 59 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Piling | 115 | 165 | -52 | 0 | 3 | | | | 65 | 65 | 65 | 65 | 65 | 65 | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 165 | -52 | 0 | 3 | | | | | | | | | | | | | | | 61 | 61 | | | | | | | | | | | |
| 8 | Construct pilecaps and piers | 111 | 165 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | 62 | 62 | | | | | | | | | |
| 9 | Construct flyover | 111 | 165 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 165 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 165 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| II Slip Road A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 215 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 215 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 215 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 215 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 215 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| III Slip Road B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 160 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 160 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 160 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 160 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 160 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IV Slip Road C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 415 | -60 | 0 | 3 | 51 | 51 | 51 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 415 | -60 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 415 | -60 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 415 | -60 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 415 | -60 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V Left-turn Lane A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 70 | -45 | 0 | 3 | 66 | 66 | 66 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 70 | -45 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 70 | -45 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 70 | -45 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Extend subway | 113 | 70 | -45 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 70 | -45 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Demolish existing structures | 112 | 70 | -45 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 70 | -45 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VI Road Resurfacing and Remarking A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 140 | -51 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VII Road Resurfacing and Remarking B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 180 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONCURRENT PROJECTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kau Hui Development - Engineering Works in Area 16, Yuen Long Phase 2 - Extension of Road L3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 108 | 250 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Box culvert | 109 | 250 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Retaining wall construction & associated works | 115 | 250 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road embankment | 110 | 250 | -56 | 0 | 3 | 58 | 58 | 58 | 58 | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 110 | 250 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 112 | 250 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proposed Left Turn Lane at POI for the Development at YOHO Town Phase II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 107 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 107 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 104 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Predicted Noise Level during Daytime Period, dB(A) | | | | | | | 67 | 67 | 67 | 69 | 69 | 70 | 70 | 70 | 70 | 69 | 72 | 72 | 68 | 71 | 69 | 69 | 65 | 65 | 65 | 65 | 65 | 63 | 63 | 62 | 62 | 72 | |
| Predicted Cumulative Noise Level during Daytime Period, dB(A) | | | | | | | 67 | 68 | 68 | 70 | 70 | 71 | 71 | 70 | 70 | 70 | 70 | 73 | 73 | 68 | 71 | 69 | 69 | 65 | 65 | 65 | 65 | 65 | 63 | 63 | 62 | 62 | 73 |

Note:

[1] Distance Correction for PMEs = 10*log(2*Pi*r²)

[2] The figures are rounded-up to a whole number.

[3] Correction of 10 dB(A) provided where there is no direct line of sight from the NSR to the work site

Annex C10-20

Construction Noise Assessment (With Mitigation) (Construction Method for Flyover A : Option 2 : Cast In-situ Deck with Conventional Temporary Works)

NSR: JCCAHz Jockey Club Care & Attention Home – southern facade

| No. | Activity Description | SWL dB(A) ^[2] | Distance m | Corr. For Distance dB(A) ^{[1][2]} | Corr. For Topo dB(A) ^[3] | Corr. For façade dB(A) | Predicted Construction Noise Level (dB(A)) ^[2] | | | | | | | | | | | | | | | | | | | | | | | | Max. CNL dB(A) | | |
|---|---|--------------------------|------------|--|-------------------------------------|------------------------|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|-----|----|
| | | | | | | | 2009 | 2010 | | | | | | | | | | | | 2011 | | | | | | | | | | | | | |
| | | | | | | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | | Dec | |
| DESIGNATED PROJECT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Improvement to Pok Oi Interchange | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I Flyover A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 175 | -53 | 0 | 3 | 58 | 58 | 58 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Piling | 115 | 175 | -53 | 0 | 3 | | | | 65 | 65 | 65 | 65 | 65 | 65 | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 175 | -53 | 0 | 3 | | | | | | | | | | | | | | | | 61 | 61 | | | | | | | | | | |
| 8 | Construct pilecaps and piers | 111 | 175 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | 61 | 61 | | | | | | | | |
| 9 | Construct flyover | 111 | 175 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 175 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 175 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | 57 | 57 | | | | |
| II Slip Road A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 220 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 220 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 220 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 220 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 220 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| III Slip Road B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 170 | -53 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 170 | -53 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 170 | -53 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 170 | -53 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 170 | -53 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IV Slip Road C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 405 | -60 | 0 | 3 | 51 | 51 | 51 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 405 | -60 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 405 | -60 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 405 | -60 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 405 | -60 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V Left-turn Lane A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 70 | -45 | 0 | 3 | 66 | 66 | 66 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 70 | -45 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 70 | -45 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 70 | -45 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Extend subway | 113 | 70 | -45 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 70 | -45 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Demolish existing structures | 112 | 70 | -45 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 70 | -45 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VI Road Resurfacing and Remarking A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 150 | -52 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VII Road Resurfacing and Remarking B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 190 | -54 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONCURRENT PROJECTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kau Hui Development - Engineering Works in Area 16, | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yuen Long Phase 2 - Extension of Road L3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 108 | 260 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Box culvert | 109 | 260 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Retaining wall construction & associated works | 115 | 260 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road embankment | 110 | 260 | -56 | 0 | 3 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 110 | 260 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 112 | 260 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proposed Left Turn Lane at POI for the Development at YOHO Town Phase II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 107 | 215 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 107 | 215 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 104 | 215 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Predicted Noise Level during Daytime Period, dB(A) | | | | | | | 67 | 67 | 67 | 69 | 69 | 70 | 70 | 70 | 70 | 69 | 72 | 72 | 67 | 71 | 66 | 66 | 63 | 63 | 63 | 63 | 63 | 59 | 59 | 56 | 56 | 72 | |
| Predicted Cumulative Noise Level during Daytime Period, dB(A) | | | | | | | 67 | 68 | 68 | 70 | 70 | 70 | 70 | 70 | 70 | 69 | 72 | 72 | 68 | 71 | 67 | 67 | 63 | 63 | 63 | 63 | 63 | 63 | 59 | 59 | 56 | 56 | 72 |

Note:

[1] Distance Correction for PMEs = 10*log(2*Pi*r²)

[2] The figures are rounded-up to a whole number.

[3] Correction of 10 dB(A) provided where there is no direct line of sight from the NSR to the work site

Annex C10-21

Construction Noise Assessment (With Mitigation) (Construction Method for Flyover A : Option 2 : Cast In-situ Deck with Conventional Temporary Works)

NSR: KMYLS1 Kwong Ming Ying Loi School

| No. | Activity Description | SWL dB(A) ^[2] | Distance m | Corr. For Distance dB(A) ^{[1][2]} | Corr. For Topo dB(A) ^[3] | Corr. For façade dB(A) | Predicted Construction Noise Level (dB(A)) ^[2] | | | | | | | | | | | | | | | | | | | | | | | | Max. CNL dB(A) | | |
|---|---|--------------------------|------------|--|-------------------------------------|------------------------|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|-----|----|
| | | | | | | | 2009 | 2010 | | | | | | | | | | | | 2011 | | | | | | | | | | | | | |
| | | | | | | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | | Dec | |
| DESIGNATED PROJECT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Improvement to Pok Oi Interchange | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I Flyover A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 115 | -49 | 0 | 3 | 62 | 62 | 62 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Piling | 115 | 115 | -49 | 0 | 3 | | | | 68 | 68 | 68 | 68 | 68 | 68 | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 115 | -49 | 0 | 3 | | | | | | | | | | | | | | | 64 | 64 | | | | | | | | | | | |
| 8 | Construct pilecaps and piers | 111 | 115 | -49 | 0 | 3 | | | | | | | | | | | | | | | | | 65 | 65 | | | | | | | | | |
| 9 | Construct flyover | 111 | 115 | -49 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 115 | -49 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 115 | -49 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | 60 | 60 | 58 | 58 | | |
| II Slip Road A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 103 | 40 | -40 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 104 | 40 | -40 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 104 | 40 | -40 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 106 | 40 | -40 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 106 | 40 | -40 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| III Slip Road B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 255 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 255 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 255 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 255 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 255 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IV Slip Road C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 130 | -50 | -10 | 3 | 51 | 51 | 51 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 130 | -50 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 130 | -50 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 130 | -50 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 130 | -50 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V Left-turn Lane A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 220 | -55 | 0 | 3 | 56 | 56 | 56 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 220 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 220 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 220 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Extend subway | 113 | 220 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 220 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Demolish existing structures | 112 | 220 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 220 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VI Road Resurfacing and Remarking A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 330 | -58 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VII Road Resurfacing and Remarking B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 250 | -56 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONCURRENT PROJECTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kau Hui Development - Engineering Works in Area 16, Yuen Long Phase 2 - Extension of Road L3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 108 | 360 | -59 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Box culvert | 109 | 360 | -59 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Retaining wall construction & associated works | 115 | 360 | -59 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road embankment | 110 | 360 | -59 | 0 | 3 | 54 | 54 | 54 | 54 | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 110 | 360 | -59 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 112 | 360 | -59 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proposed Left Turn Lane at POI for the Development at YOHO Town Phase II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 107 | 70 | -45 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 107 | 70 | -45 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 104 | 70 | -45 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Predicted Noise Level during Daytime Period, dB(A) | | | | | | | 63 | 63 | 63 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | | |
| Predicted Cumulative Noise Level during Daytime Period, dB(A) | | | | | | | 64 | 68 | 68 | 70 | 70 | 70 | 70 | 69 | 69 | 69 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |

Note:

[1] Distance Correction for PMEs = 10*log(2*PI*r²)

[2] The figures are rounded-up to a whole number.

[3] Correction of 10 dB(A) provided where there is no direct line of sight from the NSR to the work site

Annex C10-22

Construction Noise Assessment (With Mitigation) (Construction Method for Flyover A : Option 2 : Cast In-situ Deck with Conventional Temporary Works)

NSR: KMYLS2 Kwong Ming Ying Loi School

| No. | Activity Description | SWL dB(A) ^[2] | Distance m | Corr. For Distance dB(A) ^{[1][2]} | Corr. For Topo dB(A) ^[3] | Corr. For façade dB(A) | Predicted Construction Noise Level (dB(A)) ^[2] | | | | | | | | | | | | | | | | | | | | | | | | Max. CNL dB(A) | |
|---|---|--------------------------|------------|--|-------------------------------------|------------------------|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|-----|
| | | | | | | | 2009 | 2010 | | | | | | | | | | | | 2011 | | | | | | | | | | | | |
| | | | | | | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | | Dec |
| DESIGNATED PROJECT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Improvement to Pok Oi Interchange | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I Flyover A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 135 | -51 | -10 | 3 | 50 | 50 | 50 | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Piling | 115 | 135 | -51 | -10 | 3 | | | | 57 | 57 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 135 | -51 | -10 | 3 | | | | | | | | | | | | | | | 53 | 53 | | | | | | | | | | |
| 8 | Construct pilecaps and piers | 111 | 135 | -51 | -10 | 3 | | | | | | | | | | | | | | | | | 54 | 54 | | | | | | | | |
| 9 | Construct flyover | 111 | 135 | -51 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 135 | -51 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 135 | -51 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | 49 | 49 | | | | |
| II Slip Road A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 103 | 40 | -40 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 104 | 40 | -40 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 104 | 40 | -40 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 106 | 40 | -40 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 106 | 40 | -40 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| III Slip Road B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 270 | -57 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 270 | -57 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 270 | -57 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 270 | -57 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 270 | -57 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IV Slip Road C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 110 | -49 | 0 | 3 | 62 | 62 | 62 | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 110 | -49 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 110 | -49 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 110 | -49 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 110 | -49 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V Left-turn Lane A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 250 | -56 | -10 | 3 | 45 | 45 | 45 | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 250 | -56 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 250 | -56 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 250 | -56 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Extend subway | 113 | 250 | -56 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 250 | -56 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Demolish existing structures | 112 | 250 | -56 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 250 | -56 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VI Road Resurfacing and Remarking A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 350 | -59 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VII Road Resurfacing and Remarking B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 280 | -57 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONCURRENT PROJECTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kau Hui Development - Engineering Works in Area 16, | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yuen Long Phase 2 - Extension of Road L3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 108 | 400 | -60 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Box culvert | 109 | 400 | -60 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Retaining wall construction & associated works | 115 | 400 | -60 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road embankment | 110 | 400 | -60 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 110 | 400 | -60 | -10 | 3 | 43 | 43 | 43 | 43 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 112 | 400 | -60 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proposed Left Turn Lane at POI for the Development at YOHO Town Phase II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 107 | 100 | -48 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 107 | 100 | -48 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 104 | 100 | -48 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Predicted Noise Level during Daytime Period, dB(A) | | | | | | | 63 | 63 | 63 | 64 | 64 | 64 | 65 | 65 | 65 | 65 | 68 | 68 | 69 | 69 | 69 | 68 | 68 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | | |
| Predicted Cumulative Noise Level during Daytime Period, dB(A) | | | | | | | 63 | 63 | 63 | 64 | 64 | 64 | 66 | 65 | 65 | 68 | 68 | 69 | 69 | 69 | 68 | 68 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 |

Note:

[1] Distance Correction for PMEs = 10*log(2*Pi*r²)

[2] The figures are rounded-up to a whole number.

[3] Correction of 10 dB(A) provided where there is no direct line of sight from the NSR to the work site

Annex C10-23

Construction Noise Assessment (With Mitigation) (Construction Method for Flyover A : Option 2 : Cast In-situ Deck with Conventional Temporary Works)

NSR: STNV1 Small Traders New Village

| No. | Activity Description | SWL dB(A) ^[2] | Distance m | Corr. For Distance dB(A) ^{[1][2]} | Corr. For Topo dB(A) ^[3] | Corr. For façade dB(A) | Predicted Construction Noise Level (dB(A)) ^[2] | | | | | | | | | | | | | | | | | | | | | | | | Max. CNL dB(A) | | | |
|---|---|--------------------------|------------|--|-------------------------------------|------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|-----|----|----|
| | | | | | | | 2010 | | | | | | | | | | | | 2011 | | | | | | | | | | | | | | | |
| | | | | | | | 2009 Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | | Dec | | |
| DESIGNATED PROJECT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Improvement to Pok Oi Interchange | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I Flyover A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 270 | -57 | 0 | 3 | 54 | 54 | 54 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Piling | 115 | 270 | -57 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 270 | -57 | 0 | 3 | | | | 61 | 61 | 61 | 61 | 61 | 61 | | | | | | | | | | | | | | | | | | | |
| 8 | Construct pilecaps and piers | 111 | 270 | -57 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Construct flyover | 111 | 270 | -57 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 270 | -57 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 270 | -57 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| II Slip Road A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 400 | -60 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 400 | -60 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 400 | -60 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 400 | -60 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 400 | -60 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| III Slip Road B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 155 | -52 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 155 | -52 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 155 | -52 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 155 | -52 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 155 | -52 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IV Slip Road C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 640 | -64 | 0 | 3 | 47 | 47 | 47 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 640 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 640 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 640 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 640 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V Left-turn Lane A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 170 | -53 | 0 | 3 | 58 | 58 | 58 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Extend subway | 113 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Demolish existing structures | 112 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VI Road Resurfacing and Remarking A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 12 | -30 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VII Road Resurfacing and Remarking B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 50 | -42 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONCURRENT PROJECTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kau Hui Development - Engineering Works in Area 16, | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yuen Long Phase 2 - Extension of Road L3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 108 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Box culvert | 109 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Retaining wall construction & associated works | 115 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road embankment | 110 | 120 | -50 | 0 | 3 | 64 | 64 | 64 | 64 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 110 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 112 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proposed Left Turn Lane at POI for the Development at YOHO Town Phase II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 107 | 365 | -59 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 107 | 365 | -59 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 104 | 365 | -59 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Predicted Noise Level during Daytime Period, dB(A) | | | | | | | 60 | 60 | 60 | 63 | 63 | 64 | 64 | 64 | 64 | 63 | 65 | 65 | 61 | 64 | 75 | 75 | 59 | 59 | 59 | 59 | 59 | 59 | 63 | 63 | 62 | 62 | 75 | |
| Predicted Cumulative Noise Level during Daytime Period, dB(A) | | | | | | | 65 | 66 | 66 | 67 | 66 | 67 | 67 | 66 | 66 | 66 | 66 | 66 | 68 | 68 | 67 | 67 | 75 | 75 | 59 | 59 | 59 | 59 | 59 | 63 | 63 | 62 | 62 | 75 |

Note:

[1] Distance Correction for PMEs = 10*log(2*PI*r²)

[2] The figures are rounded-up to a whole number.

[3] Correction of 10 dB(A) provided where there is no direct line of sight from the NSR to the work site

Annex C10-24

Construction Noise Assessment (With Mitigation) (Construction Method for Flyover A : Option 2 : Cast In-situ Deck with Conventional Temporary Works)

NSR: V1 Village house facing slip road (south bound) of Yuen Long Highway - south of POI

| No. | Activity Description | SWL dB(A) ^[2] | Distance m | Corr. For Distance dB(A) ^{[1][2]} | Corr. For Topo dB(A) ^[3] | Corr. For façade dB(A) | Predicted Construction Noise Level (dB(A)) ^[2] | | | | | | | | | | | | | | | | | | | | | | | | Max. CNL dB(A) | | | | | |
|---|---|-----------------------------|---------------|--|---|------------------------------|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|-----|----|----|----|----|
| | | | | | | | 2009 | 2010 | | | | | | | | | | | | 2011 | | | | | | | | | | | | | | | | |
| | | | | | | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | | Dec | | | | |
| DESIGNATED PROJECT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Improvement to Pok Oi Interchange | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I Flyover A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 170 | -53 | 0 | 3 | 58 | 58 | 58 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Piling | 115 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 170 | -53 | 0 | 3 | | | | 65 | 65 | 65 | 65 | 65 | 65 | | | | | | | | | | | | | | | | | | | | | |
| 8 | Construct pilecaps and piers | 111 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Construct flyover | 111 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| II Slip Road A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| III Slip Road B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 290 | -57 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 290 | -57 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 290 | -57 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 290 | -57 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 290 | -57 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IV Slip Road C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 160 | -52 | 0 | 3 | 59 | 59 | 59 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 160 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 160 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 160 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 160 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V Left-turn Lane A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 210 | -54 | 0 | 3 | 57 | 57 | 57 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Extend subway | 113 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Demolish existing structures | 112 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VI Road Resurfacing and Remarking A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 345 | -59 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VII Road Resurfacing and Remarking B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 300 | -58 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONCURRENT PROJECTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kau Hui Development - Engineering Works in Area 16, | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yuen Long Phase 2 - Extension of Road L3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 108 | 450 | -61 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Box culvert | 109 | 450 | -61 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Retaining wall construction & associated works | 115 | 450 | -61 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road embankment | 110 | 450 | -61 | 0 | 3 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 110 | 450 | -61 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 112 | 450 | -61 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proposed Left Turn Lane at POI for the Development at YOHO Town Phase II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 107 | 170 | -53 | 0 | 3 | 58 | 58 | 58 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 107 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 104 | 170 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Predicted Noise Level during Daytime Period, dB(A) | | | | | | | 63 | 63 | 63 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 68 | 68 | 67 | 68 | 67 | 67 | 67 | 66 | 66 | 66 | 66 | 66 | 62 | 62 | 59 | 59 | 68 | |
| Predicted Cumulative Noise Level during Daytime Period, dB(A) | | | | | | | 63 | 64 | 64 | 67 | 67 | 67 | 68 | 67 | 67 | 67 | 67 | 68 | 68 | 67 | 68 | 67 | 68 | 67 | 67 | 67 | 66 | 66 | 66 | 66 | 66 | 62 | 62 | 59 | 59 | 68 |

Note:

[1] Distance Correction for PMEs = 10*log(2*Pi*r²)

[2] The figures are rounded-up to a whole number.

[3] Correction of 10 dB(A) provided where there is no direct line of sight from the NSR to the work site

Annex C10-25

Construction Noise Assessment (With Mitigation) (Construction Method for Flyover A : Option 2 : Cast In-situ Deck with Conventional Temporary Works)

NSR: V2 Village house facing slip road (south bound) of Yuen Long Highway - south of POI

| No. | Activity Description | SWL dB(A) ^[2] | Distance m | Corr. For Distance dB(A) ^{[1][2]} | Corr. For Topo dB(A) ^[3] | Corr. For façade dB(A) | Predicted Construction Noise Level (dB(A)) ^[2] | | | | | | | | | | | | | | | | | | | | | | | | Max. CNL dB(A) |
|---|---|--------------------------|------------|--|-------------------------------------|------------------------|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|
| | | | | | | | 2009 | 2010 | | | | | | | | | | | | 2011 | | | | | | | | | | | |
| | | | | | | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | |
| DESIGNATED PROJECT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Improvement to Pok Oi Interchange | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I Flyover A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 165 | -52 | 0 | 3 | 59 | 59 | 59 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Piling | 115 | 165 | -52 | 0 | 3 | | | | 65 | 65 | 65 | 65 | 65 | 65 | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 165 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Construct pilecaps and piers | 111 | 165 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Construct flyover | 111 | 165 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 165 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 165 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| II Slip Road A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 85 | -47 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 85 | -47 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 85 | -47 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 85 | -47 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 85 | -47 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| III Slip Road B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 300 | -58 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 300 | -58 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 300 | -58 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 300 | -58 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 300 | -58 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| IV Slip Road C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 120 | -50 | 0 | 3 | 61 | 61 | 61 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 120 | -50 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| V Left-turn Lane A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 235 | -55 | 0 | 3 | 56 | 56 | 56 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 235 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 235 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 235 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Extend subway | 113 | 235 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 235 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Demolish existing structures | 112 | 235 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 235 | -55 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| VI Road Resurfacing and Remarking A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 370 | -59 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| VII Road Resurfacing and Remarking B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 300 | -58 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONCURRENT PROJECTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kau Hui Development - Engineering Works in Area 16, Yuen Long Phase 2 - Extension of Road L3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 108 | 150 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Box culvert | 109 | 150 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Retaining wall construction & associated works | 115 | 150 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road embankment | 110 | 150 | -52 | 0 | 3 | 62 | 62 | 62 | 62 | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 110 | 150 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 112 | 150 | -52 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proposed Left Turn Lane at POI for the Development at YOHO Town Phase II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 107 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 107 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 104 | 210 | -54 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Predicted Noise Level during Daytime Period, dB(A) | | | | | | | 64 | 64 | 64 | 67 | 67 | 68 | 68 | 68 | 68 | 68 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | | |
| Predicted Cumulative Noise Level during Daytime Period, dB(A) | | | | | | | 66 | 66 | 66 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |

Note:

[1] Distance Correction for PMEs = 10*log(2*Pi*r²)

[2] The figures are rounded-up to a whole number.

[3] Correction of 10 dB(A) provided where there is no direct line of sight from the NSR to the work site

Annex C10-26

Construction Noise Assessment (With Mitigation) (Construction Method for Flyover A : Option 2 : Cast In-situ Deck with Conventional Temporary Works)

NSR: V3 Village house at Chuk San Tsuen

| No. | Activity Description | SWL dB(A) ^[2] | Distance m | Corr. For Distance dB(A) ^{[1][2]} | Corr. For Topo dB(A) ^[3] | Corr. For façade dB(A) | Predicted Construction Noise Level (dB(A)) ^[2] | | | | | | | | | | | | | | | | | | | | | | | | Max. CNL dB(A) |
|---|---|--------------------------|------------|--|-------------------------------------|------------------------|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|
| | | | | | | | 2009 | 2010 | | | | | | | | | | | | 2011 | | | | | | | | | | | |
| | | | | | | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | |
| DESIGNATED PROJECT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Improvement to Pok Oi Interchange | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I Flyover A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 530 | -62 | 0 | 3 | 49 | 49 | 49 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Piling | 115 | 530 | -62 | 0 | 3 | | | | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 530 | -62 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Construct pilecaps and piers | 111 | 530 | -62 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Construct flyover | 111 | 530 | -62 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 530 | -62 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 530 | -62 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| II Slip Road A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 130 | -50 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 130 | -50 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 130 | -50 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 130 | -50 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 130 | -50 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| III Slip Road B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 680 | -65 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 680 | -65 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 680 | -65 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 680 | -65 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 680 | -65 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| IV Slip Road C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 25 | -36 | -10 | 3 | 65 | 65 | 65 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 25 | -36 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 25 | -36 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 25 | -36 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 25 | -36 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| V Left-turn Lane A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 635 | -64 | 0 | 3 | 47 | 47 | 47 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 635 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 635 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 635 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Extend subway | 113 | 635 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 635 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Demolish existing structures | 112 | 635 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 635 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| VI Road Resurfacing and Remarking A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 760 | -66 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| VII Road Resurfacing and Remarking B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 670 | -65 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONCURRENT PROJECTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kau Hui Development - Engineering Works in Area 16, Yuen Long Phase 2 - Extension of Road L3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 108 | 820 | -66 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Box culvert | 109 | 820 | -66 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Retaining wall construction & associated works | 115 | 820 | -66 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road embankment | 110 | 820 | -66 | -10 | 3 | 37 | 37 | 37 | 37 | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 110 | 820 | -66 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 112 | 820 | -66 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proposed Left Turn Lane at POI for the Development at YOHO Town Phase II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 107 | 490 | -62 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 107 | 490 | -62 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 104 | 490 | -62 | -10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Predicted Noise Level during Daytime Period, dB(A) | | | | | | | 65 | 65 | 65 | 66 | 66 | 66 | 66 | 68 | 68 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 68 | | | |
| Predicted Cumulative Noise Level during Daytime Period, dB(A) | | | | | | | 65 | 65 | 65 | 66 | 66 | 66 | 66 | 68 | 68 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 68 | | |

Note:

[1] Distance Correction for PMEs = 10*log(2*Pi*r²)

[2] The figures are rounded-up to a whole number.

[3] Correction of 10 dB(A) provided where there is no direct line of sight from the NSR to the work site

Annex C10-27

Construction Noise Assessment (With Mitigation) (Construction Method for Flyover A : Option 2 : Cast In-situ Deck with Conventional Temporary Works)

NSR: V6 Village house at Hoover Garden

| No. | Activity Description | SWL dB(A) ^[2] | Distance m | Corr. For Distance dB(A) ^{[1][2]} | Corr. For Topo dB(A) ^[3] | Corr. For façade dB(A) | Predicted Construction Noise Level (dB(A)) ^[2] | | | | | | | | | | | | | | | | | | | | | | | | Max. CNL dB(A) | |
|---|---|--------------------------|------------|--|-------------------------------------|------------------------|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|-----|
| | | | | | | | 2009 | 2010 | | | | | | | | | | | | 2011 | | | | | | | | | | | | |
| | | | | | | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | | Dec |
| DESIGNATED PROJECT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Improvement to Pok Oi Interchange | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I Flyover A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 480 | -62 | 0 | 3 | 49 | 49 | 49 | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Piling | 115 | 480 | -62 | 0 | 3 | | | | 56 | 56 | 56 | 56 | 56 | 56 | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 480 | -62 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Construct pilecaps and piers | 111 | 480 | -62 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Construct flyover | 111 | 480 | -62 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 480 | -62 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 480 | -62 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| II Slip Road A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 180 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 180 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 180 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 180 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 180 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| III Slip Road B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 620 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 620 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 620 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 620 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 620 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IV Slip Road C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 180 | -53 | 0 | 3 | 58 | 58 | 58 | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 180 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 180 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 180 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 180 | -53 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V Left-turn Lane A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site clearance | 108 | 600 | -64 | 0 | 3 | 47 | 47 | 47 | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Site formation | 109 | 600 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road drainage, utilities & water mains works | 110 | 600 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construct retaining walls, abutments and embankment | 110 | 600 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Extend subway | 113 | 600 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Install concrete parapets and planters | 106 | 600 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Demolish existing structures | 112 | 600 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Pavement construction | 104 | 600 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VI Road Resurfacing and Remarking A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 710 | -65 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VII Road Resurfacing and Remarking B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Road resurfacing and remarking | 111 | 600 | -64 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONCURRENT PROJECTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kau Hui Development - Engineering Works in Area 16, | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yuen Long Phase 2 - Extension of Road L3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 108 | 810 | -66 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Box culvert | 109 | 810 | -66 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Retaining wall construction & associated works | 115 | 810 | -66 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road embankment | 110 | 810 | -66 | 0 | 3 | 47 | 47 | 47 | 47 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 110 | 810 | -66 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 112 | 810 | -66 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proposed Left Turn Lane at POI for the Development at YOHO Town Phase II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Site formation | 107 | 425 | -61 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road drainage, utilities & water mains works | 107 | 425 | -61 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Pavement construction | 104 | 425 | -61 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Predicted Noise Level during Daytime Period, dB(A) | | | | | | | 59 | 59 | 59 | 61 | 61 | 61 | 62 | 62 | 61 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | | |
| Predicted Cumulative Noise Level during Daytime Period, dB(A) | | | | | | | 59 | 60 | 60 | 61 | 61 | 61 | 62 | 62 | 62 | 62 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 |

Note:

[1] Distance Correction for PMEs = 10*log(2*PI*r²)

[2] The figures are rounded-up to a whole number.

[3] Correction of 10 dB(A) provided where there is no direct line of sight from the NSR to the work site

Construction Noise Assessment for the Proposed Noise Barrier for the Planned Schools (With Mitigation)

| No. | Activities | Plant | CNP /BS 5228 ref. | No. of PME | On-time % | Corr. For Barrier dB(A) | Unit SWL, dB(A) | SWL, dB(A) | Total SWL, dB(A) ^[1] | Group ^[2] |
|-----|------------------------------|--|-------------------|------------|-----------|-------------------------|-----------------|------------|---------------------------------|----------------------|
| 8 | Construct pilecaps and piers | Excavator/loader, wheeled/tracked | C3/97 | 1 | 100% | 0 | 105 | 105 | 112 | A |
| | | Saw, circular, wood | CNP 201 | 1 | 100% | 0 | 108 | 108 | | A |
| | | Bar bender and cutter (electric) | CNP 021 | 1 | 100% | 0 | 90 | 90 | | A |
| | | Drill/grinder, hand-held (electric) | CNP 065 | 1 | 100% | 0 | 98 | 98 | | A |
| | | Generator, silenced, 75dB(A) at 7m | CNP 102 | 1 | 100% | 0 | 100 | 100 | | A |
| | | Poker, vibratory, hand-held | C6/40 | 1 | 100% | 0 | 98 | 98 | | B |
| | | Concrete truck | C6/23 | 1 | 100% | 0 | 100 | 100 | | B |
| | | Concrete pump, stationary/lorry mounted | C6/36 | 1 | 100% | 0 | 106 | 106 | | B |
| 12 | Install noise barriers | Mobile crane | C7/114 | 1 | 100% | 0 | 101 | 101 | 106 | |
| | | Crane lorry, 5.5 tonne < gross vehicle weight < 38 tonne | [1-b] | 1 | 100% | 0 | 105 | 105 | | |

Proposed Mitigation Measures for the Proposed Noise Barrier facing Kwong Ming Ying Loi School

| No. | Activities | Plant | CNP /BS 5228 ref. | No. of PME | On-time % | Corr. For Barrier dB(A) ^[3] | Unit SWL, dB(A) | SWL, dB(A) | Total SWL, dB(A) ^[1] | Group ^[2] |
|-----|------------------------------|--|-------------------|------------|-----------|--|-----------------|------------|---------------------------------|----------------------|
| 8 | Construct pilecaps and piers | Excavator/loader, wheeled/tracked | C3/97 | 1 | 100% | -5 | 105 | 100 | 107 | A |
| | | Saw, circular, wood | CNP 201 | 1 | 100% | -5 | 108 | 103 | | A |
| | | Bar bender and cutter (electric) | CNP 021 | 1 | 100% | -5 | 90 | 85 | | A |
| | | Drill/grinder, hand-held (electric) | CNP 065 | 1 | 100% | -5 | 98 | 93 | | A |
| | | Generator, silenced, 75dB(A) at 7m | CNP 102 | 1 | 100% | -5 | 100 | 95 | | A |
| | | Poker, vibratory, hand-held | C6/40 | 1 | 100% | -5 | 98 | 93 | | B |
| | | Concrete truck | C6/23 | 1 | 100% | -5 | 100 | 95 | | B |
| | | Concrete pump, stationary/lorry mounted | C6/36 | 1 | 100% | -5 | 106 | 101 | | B |
| 12 | Install noise barriers | Mobile crane | C7/114 | 1 | 100% | -5 | 101 | 96 | 101 | |
| | | Crane lorry, 5.5 tonne < gross vehicle weight < 38 tonne | [1-b] | 1 | 100% | -5 | 105 | 100 | | |

| No. ^[1] | NSRs | Activities | No. (Group) | SWL dB(A) | Distance m | Corr. For | | Predicted Construction Noise Level (dB(A)) ^{[1][4]} |
|--------------------|--------|----------------------------|-------------|-----------|------------|----------------|--------------|--|
| | | | | | | Distance dB(A) | façade dB(A) | |
| 1 | KMYLS1 | Kwong Ming Ying Loi School | 8(A) | 105 | 46 | -41 | 3 | 67 |
| | | | 8(B) | 102 | 46 | -41 | 3 | 64 |
| | | | 12 | 101 | 46 | -41 | 3 | 63 |
| 2 | KMYLS2 | Kwong Ming Ying Loi School | 8(A) | 105 | 32 | -38 | 3 | 70 |
| | | | 8(B) | 102 | 32 | -38 | 3 | 67 |
| | | | 12 | 101 | 32 | -38 | 3 | 66 |
| 3 | YT1 | Block 2, YOHO Town | 8(A) | 110 | 160 | -52 | 3 | 61 |
| | | | 8(B) | 107 | 160 | -52 | 3 | 58 |
| | | | 12 | 106 | 160 | -52 | 3 | 57 |

Note:

- [1] The figures are rounded-up to a whole number.
 [2] Maximum total SWL from different groups was adopted for calculation.
 [3] A 5 dB(A) reduction provided by the use of movable noise barriers.
 [4] The predicted construction noise level complied with the daytime EIAO-TM noise criteria for residential premises and education institutions during normal teaching period. All construction works should be suspended during the examination period.