

**Kam Sheung Road Station (KSR) &  
C&C Tunnel from Pat Heung Depot to  
KSR**





**Project : Consultancy Agreement No. C1603 EIA Study for Northern Link**

**Title:** Construction Noise Calculation (Kam Sheung Road Station (KSR) & C&C Tunnel from PHD to KSR)

**Scenario:** Mitigated Scenario

|   |     | 2031 |     |   |   |   |   |   |   |   |    |    |    |
|---|-----|------|-----|---|---|---|---|---|---|---|----|----|----|
|   |     | 1    | 2   | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Site Clearance, Preparation & Monitoring (KSR)                              | 104 |      |     |   |   |   |   |   |   |   |    |    |    |
| Site Formation (RE Wall Modification (KSR 14-16))                           | 111 |      |     |   |   |   |   |   |   |   |    |    |    |
| Site Formation (TWR Underpass (KSR 12-14))                                  | 110 |      |     |   |   |   |   |   |   |   |    |    |    |
| D-wall, Piling and Excavation (KSR 1-12)                                    | 101 |      |     |   |   |   |   |   |   |   |    |    |    |
| D-wall, Piling and Excavation (KSR 12-33)                                   | 110 |      |     |   |   |   |   |   |   |   |    |    |    |
| D-wall, Piling and Excavation (KSR 33-39)                                   | 105 |      |     |   |   |   |   |   |   |   |    |    |    |
| RC Works (KSR 1-12)   | 103 |      |     |   |   |   |   |   |   |   |    |    |    |
| RC Works (KSR 1-12 Sub Zone 1)  | 97  |      |     |   |   |   |   |   |   |   |    |    |    |
| RC Works (KSR 1-12 Sub Zone 2)  | 97  |      |     |   |   |   |   |   |   |   |    |    |    |
| RC Works (KSR 1-12 Sub Zone 3)  | 97  |      |     |   |   |   |   |   |   |   |    |    |    |
| RC Works (KSR 12-33)  | 108 |      |     |   |   |   |   |   |   |   |    |    |    |
| RC Works (KSR 33-39)  | 104 |      |     |   |   |   |   |   |   |   |    |    |    |
| Structural Steel Works (KSR 16-33)  | 97  |      |     |   |   |   |   |   |   |   |    |    |    |
| UU and Road Works (KSR Ext A)   | 105 | 105  | 105 |   |   |   |   |   |   |   |    |    |    |
| Bicycle Parking Bays (KSR Ext B)  | 103 | 103  | 103 |   |   |   |   |   |   |   |    |    |    |
| C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel (PHDKSR-1)           | 101 |      |     |   |   |   |   |   |   |   |    |    |    |
| C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel (PHDKSR-2)           | 99  |      |     |   |   |   |   |   |   |   |    |    |    |
| C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel (PHDKSR-3)           | 101 |      |     |   |   |   |   |   |   |   |    |    |    |
| C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel (PHDKSR-4) (Eastern) | 95  |      |     |   |   |   |   |   |   |   |    |    |    |
| C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel (PHDKSR-4) (Western) | 99  |      |     |   |   |   |   |   |   |   |    |    |    |
| C&C Tunnel: Backfilling (PHDKSR-1 to PHDKSR-4)                              | 101 |      |     |   |   |   |   |   |   |   |    |    |    |
| KSR - Backfilling (KSR 12-14)   | 101 |      |     |   |   |   |   |   |   |   |    |    |    |

| Predicted Construction Noise, dB(A) |            |    |    |   |   |   |   |   |   |   |   |   |   |
|-------------------------------------|------------|----|----|---|---|---|---|---|---|---|---|---|---|
| <b>NAP</b>                          | <b>Max</b> |    |    |   |   |   |   |   |   |   |   |   |   |
| PHD-E1                              | 55         | 0  | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PHDKSR-E1                           | 57         | 0  | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PHDKSR-P1                           | 66         | 0  | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PHDKSR-P2                           | 67         | 0  | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PHDKSR-P3                           | 67         | 0  | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| KSR-P1                              | 65         | 0  | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| KSR-P2                              | 75         | 0  | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| KSR-P3                              | 66         | 0  | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| KSR-P4                              | 68         | 0  | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| KSR-P5                              | 73         | 0  | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| KSR-P6                              | 68         | 54 | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| KSR-P7                              | 67         | 56 | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| KSR-P8                              | 70         | 0  | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| KSR-E1                              | 63         | 54 | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Notes:**

- As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.  
- Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).  
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
- "RC Works (KSR 12-33)" and "RC Works (KSR 33-39)" will not take place concurrently. The worst case is adopted for calculation.
- "C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel" and "C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel - Backfilling" will not take place concurrently. The worst case is adopted for calculation.
- Text in bold and underline denotes exceedance of relevant criterion (text in orange cell denotes exceedance for school during examination period).
- Cell with shaded area denotes the unoccupancy of the NSR (i.e. before the population intake).



**Shui Mei Road Ancillary Building  
(EAP/EEP/VB)**

Project : Environmental Consultancy No. C1603 EIA Study for Northern Link

Title: Construction Noise Calculation (Shui Mei Road Ancillary Building (EAP/EEP/VB))

Scenario: Mitigated Scenario

|  | Activity | 2025 |   |   |     |     |     |     |     |     |     |     |     | 2026 |     |     |     |     |     |     |   |   |    |    |    | 2027 |   |   |   |   |   |   |   |   |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|----------|------|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|---|---|----|----|----|------|---|---|---|---|---|---|---|---|----|----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |          | 1    | 2 | 3 | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 1    | 2   | 3   | 4   | 5   | 6   | 7   | 8 | 9 | 10 | 11 | 12 | 1    | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Preliminary Works (AB5)  | 104      |      |   |   | 104 | 104 | 104 |     |     |     |     |     |     |      |     |     |     |     |     |     |   |   |    |    |    |      |   |   |   |   |   |   |   |   |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Retaining Walls and Site Formation Works (AB5-RW)  | 103      |      |   |   |     |     | 103 | 103 | 103 | 103 | 103 | 103 |     |      |     |     |     |     |     |     |   |   |    |    |    |      |   |   |   |   |   |   |   |   |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cofferdam Works (AB5-a1)   | 103      |      |   |   |     |     |     |     |     | 103 | 103 | 103 | 103 | 103  | 103 | 103 | 103 | 103 | 103 | 103 |   |   |    |    |    |      |   |   |   |   |   |   |   |   |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cofferdam Works (AB5-a2)   | 103      |      |   |   |     |     |     |     |     | 103 | 103 | 103 | 103 | 103  | 103 | 103 | 103 | 103 | 103 | 103 |   |   |    |    |    |      |   |   |   |   |   |   |   |   |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cofferdam Works (AB5-a3)   | 103      |      |   |   |     |     |     |     |     | 103 | 103 | 103 | 103 | 103  | 103 | 103 | 103 | 103 | 103 | 103 |   |   |    |    |    |      |   |   |   |   |   |   |   |   |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cofferdam Works (AB5-a)  | 91       |      |   |   |     |     |     |     |     | 91  | 91  | 91  | 91  | 91   | 91  | 91  | 91  | 91  | 91  | 91  |   |   |    |    |    |      |   |   |   |   |   |   |   |   |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Foundation Works (AB5-b)   | 105      |      |   |   |     |     |     |     |     | 105 | 105 | 105 | 105 | 105  | 105 | 105 | 105 | 105 | 105 | 105 |   |   |    |    |    |      |   |   |   |   |   |   |   |   |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Excavation Works (AB5-a)   | 99       |      |   |   |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |   |   |    |    |    |      |   |   |   |   |   |   |   |   |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RC Works (AB5-b)   | 106      |      |   |   |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |   |   |    |    |    |      |   |   |   |   |   |   |   |   |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TBM Tunnel (AB5-TBM)   | 105      |      |   |   |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |   |   |    |    |    |      |   |   |   |   |   |   |   |   |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Site Clearance and Establishment (CLP Substation)  | 100      |      |   |   |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |   |   |    |    |    |      |   |   |   |   |   |   |   |   |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Construct Temporary Substation (CLP Substation)  | 102      |      |   |   |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |   |   |    |    |    |      |   |   |   |   |   |   |   |   |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Decommissioning, Demolition and Site Reinstatement Temporary Substation (CLP Substation) | 99       |      |   |   |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |   |   |    |    |    |      |   |   |   |   |   |   |   |   |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Contractor Site Office Construction (Contractor Site Office)                             | 101      |      |   |   |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |   |   |    |    |    |      |   |   |   |   |   |   |   |   |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Removal and Reinstatement (Contractor Site Office)                                       | 100      |      |   |   |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |   |   |    |    |    |      |   |   |   |   |   |   |   |   |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Predicted Construction Noise, dB(A) | NAP |     |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-------------------------------------|-----|-----|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                                     |     | Max |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| SMR-E1                              | 75  | 0   | 0 | 0 | 68 | 68 | 71 | 71 | 75 | 75 | 75 | 75 | 75 | 74 | 74 | 74 | 74 | 0  | 0  | 0  | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 |    |    |    |    |
| SMR-E2                              | 55  | 0   | 0 | 0 | 0  | 0  | 49 | 49 | 55 | 55 | 55 | 54 | 54 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 |

Notes:

- As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.  
- Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).  
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
- "Preliminary Works" and "Retaining Walls and Site Formation Works" will not take place concurrently. The worst case is adopted for calculation.
- "TBM Tunnel (AB5-TBM)" and "Temporary CLP Decommissioning, Demolition and Site Reinstatement" will not take place concurrently. The worst case is adopted for calculation.
- "Temporary CLP Sub-Station Site Clearance and Establishment", "Temporary CLP Sub-Station Construction", and "Contractor's Site Office Construction" will not take place concurrently. The worst case is adopted for calculation.
- Text in bold and underline denotes exceedance of relevant criterion.



**Project : Environmental Consultancy No. C1603 EIA Study for Northern Link**

**Title:** Construction Noise Calculation (Shui Mei Road Ancillary Building (EAP/EEP/VB))

**Scenario:** Mitigated Scenario

|  |     | 2031 |   |     |     |     |   |   |   |   |    |    |    |
|--|-----|------|---|-----|-----|-----|---|---|---|---|----|----|----|
|  |     | 1    | 2 | 3   | 4   | 5   | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Preliminary Works (AB5)  | 104 |      |   |     |     |     |   |   |   |   |    |    |    |
| Retaining Walls and Site Formation Works (AB5-RW)  | 103 |      |   |     |     |     |   |   |   |   |    |    |    |
| Cofferdam Works (AB5-a1)   | 103 |      |   |     |     |     |   |   |   |   |    |    |    |
| Cofferdam Works (AB5-a2)   | 103 |      |   |     |     |     |   |   |   |   |    |    |    |
| Cofferdam Works (AB5-a3)   | 103 |      |   |     |     |     |   |   |   |   |    |    |    |
| Cofferdam Works (AB5-a)  | 91  |      |   |     |     |     |   |   |   |   |    |    |    |
| Foundation Works (AB5-b)   | 105 |      |   |     |     |     |   |   |   |   |    |    |    |
| Excavation Works (AB5-a)   | 99  |      |   |     |     |     |   |   |   |   |    |    |    |
| RC Works (AB5-b)   | 106 |      |   |     |     |     |   |   |   |   |    |    |    |
| TBM Tunnel (AB5-TBM)   | 105 |      |   |     |     |     |   |   |   |   |    |    |    |
| Site Clearance and Establishment (CLP Substation)  | 100 |      |   |     |     |     |   |   |   |   |    |    |    |
| Construct Temporary Substation (CLP Substation)  | 102 |      |   |     |     |     |   |   |   |   |    |    |    |
| Decommissioning, Demolition and Site Reinstatement Temporary Substation (CLP Substation) | 99  |      |   |     |     |     |   |   |   |   |    |    |    |
| Contractor Site Office Construction (Contractor Site Office)                             | 101 |      |   |     |     |     |   |   |   |   |    |    |    |
| Removal and Reinstatement (Contractor Site Office)                                       | 100 |      |   | 100 | 100 | 100 |   |   |   |   |    |    |    |

| <b>Predicted Construction Noise, dB(A)</b> |     |   |   |    |    |    |   |   |   |   |   |   |   |
|--|-----|---|---|----|----|----|---|---|---|---|---|---|---|
| <b>NAP</b>                                 | Max |   |   |    |    |    |   |   |   |   |   |   |   |
| SMR-E1                                     | 75  | 0 | 0 | 0  | 0  | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SMR-E2                                     | 55  | 0 | 0 | 48 | 48 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Notes:**

- As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.  
- Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).  
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
- "Preliminary Works" and "Retaining Walls and Site Formation Works" will not take place concurrently. The worst case is adopted for calculation.
- "TBM Tunnel (AB5-TBM)" and "Temporary CLP Decommissioning, Demolition and Site Reinstatement" will not take place concurrently. The worst case is adopted for calculation.
- "Temporary CLP Sub-Station Site Clearance and Establishment", "Temporary CLP Sub-Station Construction", and "Contractor's Site Office Construction" will not take place concurrently. The worst case is adopted for calculation.
- Text in bold and underline denotes exceedance of relevant criterion.

**Au Tau Station (AUT)**

**Project: Environmental Consultancy No. C1603 EIA Study for Northern Link**

**Title:** Construction Noise Calculation (Au Tau Station (AUT))  
**Scenario:** Mitigated Scenario

|   |     | 2026 |   |   |   |   |   |   |   |   |     |     |     | 2027 |     |     |     |     |     |     |     |     |     |     |     | 2028 |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|---|-----|------|---|---|---|---|---|---|---|---|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
|   |     | 1    | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10  | 11  | 12  | 1    | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 1    | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  |     |  |  |
| Site Clearance, Preparation & Monitoring (AUT-A, AUT-B & AUT-C) | 104 |      |   |   |   |   |   |   |   |   | 104 | 104 | 104 | 104  | 104 | 104 |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| Site Formation Works, Backfilling (AUT-A, AUT-B & AUT-C)        | 106 |      |   |   |   |   |   |   |   |   |     | 106 | 106 | 106  | 106 |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| D-wall & Piling Trial (AUT-A, AUT-B & AUT-C)                    | 99  |      |   |   |   |   |   |   |   |   | 99  | 99  | 99  | 99   | 99  |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| D-wall, Piling & Excavation (AUT-A)                             | 108 |      |   |   |   |   |   |   |   |   |     |     |     |      | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108  | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 |  |  |
| D-wall, Piling & Excavation (AUT-B)                             | 108 |      |   |   |   |   |   |   |   |   |     |     |     |      | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108  | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 |  |  |
| D-wall, Piling & Excavation (AUT-C)                             | 111 |      |   |   |   |   |   |   |   |   |     |     |     |      | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111  | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |  |  |
| RC Works (AUT-A)  | 104 |      |   |   |   |   |   |   |   |   |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| RC Works (AUT-B)  | 106 |      |   |   |   |   |   |   |   |   |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| RC Works (AUT-C)  | 104 |      |   |   |   |   |   |   |   |   |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| Structural Steel Works (AUT-B)                                  | 97  |      |   |   |   |   |   |   |   |   |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| Park & Ride Facilities/ Bicycle Parking Bays (AUT-D)            | 103 |      |   |   |   |   |   |   |   |   |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |  |  |

| Predicted Construction Noise, dB(A) |     | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |    |
|-------------------------------------|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| <b>NAP</b>                          | Max |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| AUT-E1                              | 69  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 61 | 64 | 64 | 64 | 69 | 69 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 |
| AUT-E2                              | 75  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67 | 70 | 70 | 70 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| AUT-P1                              | 53  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| AUT-P2                              | 57  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| AUT-P3                              | 51  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

- Notes:  
 1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.  
 - Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).  
 - A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.  
 2. "D-wall, Piling & Excavation" and "Site Formation Works (Backfilling)" will not take place concurrently. The worst case is adopted for calculation.  
 3. "D-wall, Piling & Excavation" and "D-wall, Piling Trial" will not take place concurrently. The worst case is adopted for calculation.  
 4. "D-wall, Piling & Excavation" and "RC Works" will not take place concurrently. The worst case is adopted for calculation.  
 5. "Structural Steel Works" and "Park & Ride Facilities/ Bicycle Parking Bays" will not take place concurrently. The worst case is adopted for calculation.  
 6. Text in bold and underline denotes exceedance of relevant criterion.  
 7. Cell with shaded area denotes the unoccupancy of the NAP (i.e. before the population intake).



**Pok Wai Ancillary Building  
(EAP/EEP/VB)**





**Project: Environmental Consultancy No. C1603 EIA Study for Northern Link**

**Title:** Construction Noise Calculation (Pok Wai Ancillary Building (EAP/EEP/VB)) (for POW-E1)

**Scenario:** Mitigated Scenario

|  |     | 2029 |     |     |     |   |     |     |     |     |     |     |     | 2030 |   |   |   |   |   |   |   |   |    |    |    |
|--|-----|------|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|------|---|---|---|---|---|---|---|---|----|----|----|
|  |     | 1    | 2   | 3   | 4   | 5 | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 1    | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Preliminary Works (Whole Area)                                 | 98  |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Road Works (AB6-b)   | 101 |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Cofferdam Works (AB6-a (AB Area Only)) (Northeast)             | 96  |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Cofferdam Works (AB6-a (AB Area Only)) (Northwest)             | 96  |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Cofferdam Works (AB6-a (AB Area Only)) (Southeast)             | 96  |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Cofferdam Works (AB6-a (AB Area Only)) (Southwest)             | 96  |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Cofferdam Works (AB6-a (AB Area Only))                         | 102 |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Retaining Walls (AB6-a-RW)                                     | 103 |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Bored Pile Wall (AB6-a-BPW)                                    | 96  |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Foundation Works (AB6-a (AB Area Only))(North)                 | 95  |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Foundation Works (AB6-a (AB Area Only))(Southwest)             | 95  |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Foundation Works (AB6-a (AB Area Only))(Southeast)             | 95  |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Excavation Works (AB6-a)                                       | 99  |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Adit and Underground Tunnel Works Works (AB6-a (AB Area Only)) | 103 | 103  | 103 | 103 | 103 |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| RC Works (AB6-a (AB Area Only))                                | 106 |      |     |     |     |   | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106  |   |   |   |   |   |   |   |   |    |    |    |

| Predicted Construction Noise, dB(A) |     |    |    |    |    |   |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |  |
|-------------------------------------|-----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|--|
| NAP                                 | Max |    |    |    |    |   |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |  |
| POW-E1                              | 72  | 63 | 63 | 63 | 63 | 0 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |

Notes:

- As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.  
- Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).  
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
- "Cofferdam Works" and "Foundation Works" will not take place concurrently. The worst case is adopted for calculation.
- "Cofferdam Works", "Retaining Walls" and "Bored Pile Walls" will not take place concurrently. The worst case is adopted for calculation.
- "Excavation Works" and "Adit and Underground Tunnel Works" will not take place concurrently. The worst case is adopted for calculation.
- Text in bold and underline denotes exceedance of relevant criterion.



**Project: Environmental Consultancy No. C1603 EIA Study for Northern Link**

**Title:** Construction Noise Calculation (Pok Wai Ancillary Building (EAP/EEP/VB)) (for POW-E2, E-3, and E-4)

**Scenario:** Mitigated Scenario

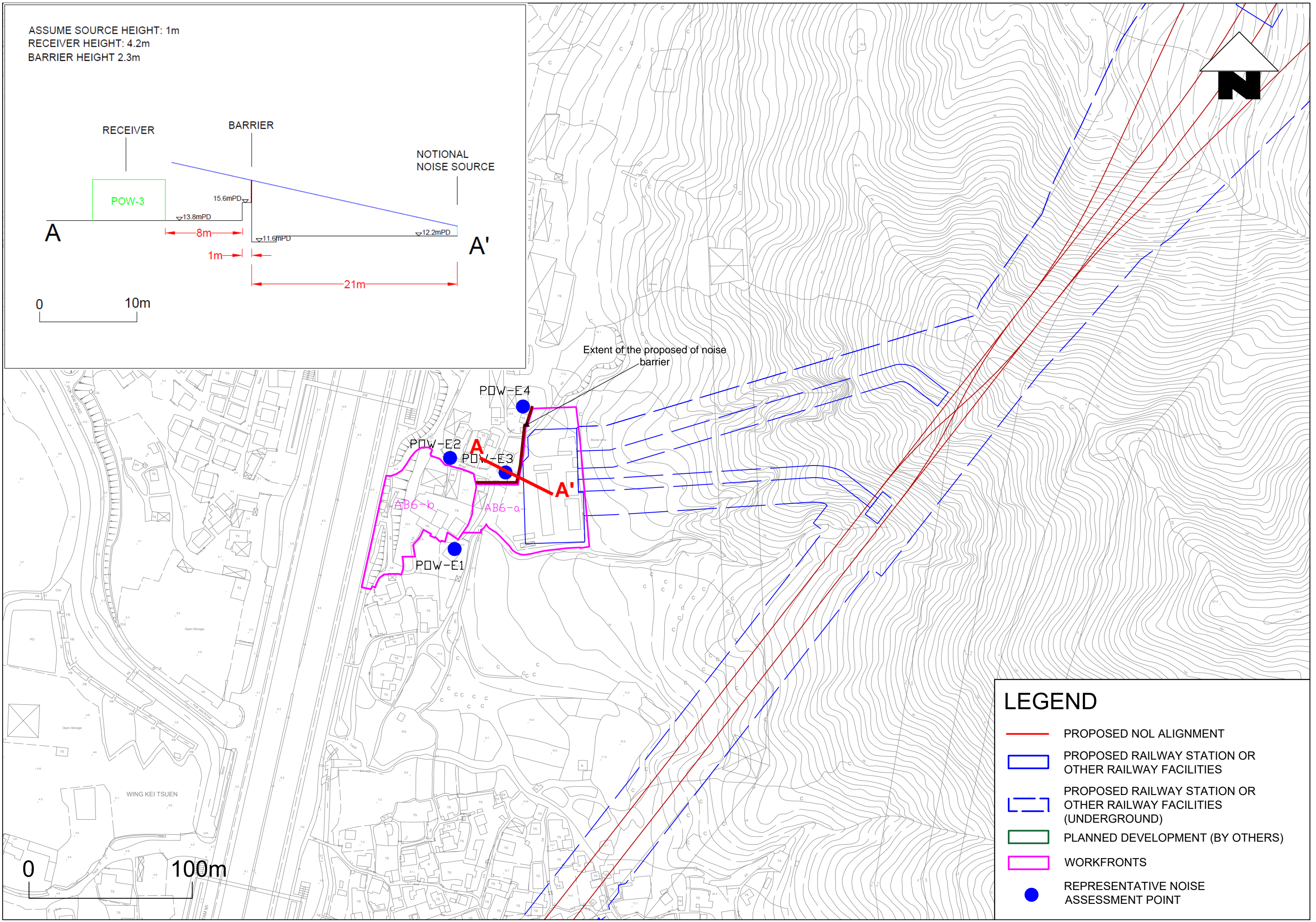
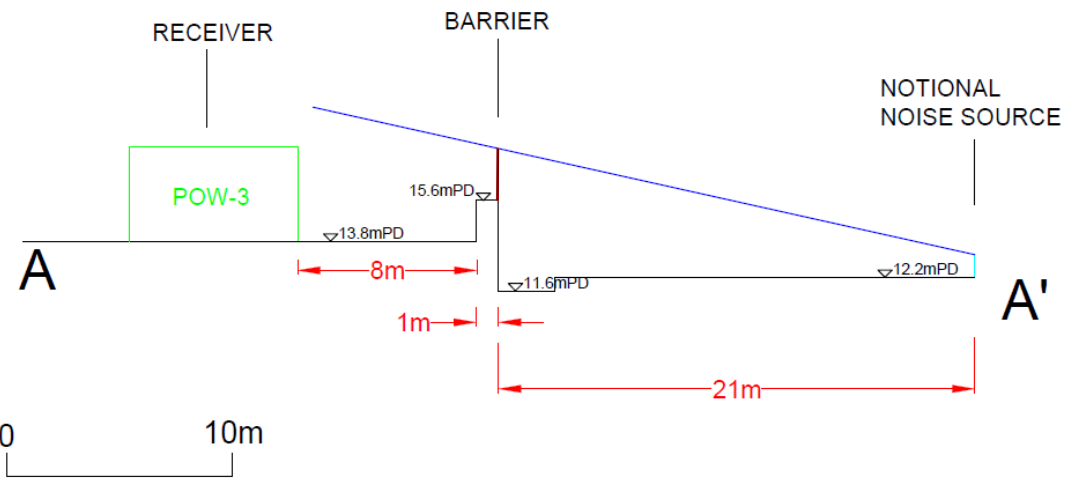
|  |     | 2029 |     |     |     |   |     |     |     |     |     |     |     | 2030 |   |   |   |   |   |   |   |   |    |    |    |
|--|-----|------|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|------|---|---|---|---|---|---|---|---|----|----|----|
|  |     | 1    | 2   | 3   | 4   | 5 | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 1    | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Preliminary Works (Whole Area)                                 | 98  |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Road Works (AB6-b)   | 101 |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Cofferdam Works (AB6-a (AB Area Only)) (Northeast)             | 96  |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Cofferdam Works (AB6-a (AB Area Only)) (Northwest)             | 96  |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Cofferdam Works (AB6-a (AB Area Only)) (Southeast)             | 96  |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Cofferdam Works (AB6-a (AB Area Only)) (Southwest)             | 96  |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Cofferdam Works (AB6-a (AB Area Only))                         | 102 |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Retaining Walls (AB6-a-RW)                                     | 108 |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Bored Pile Wall (AB6-a-BPW)                                    | 106 |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Foundation Works (AB6-a (AB Area Only))(North)                 | 95  |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Foundation Works (AB6-a (AB Area Only))(Southwest)             | 95  |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Foundation Works (AB6-a (AB Area Only))(Southeast)             | 95  |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Excavation Works (AB6-a)                                       | 99  |      |     |     |     |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| Adit and Underground Tunnel Works Works (AB6-a (AB Area Only)) | 103 | 103  | 103 | 103 | 103 |   |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |   |    |    |    |
| RC Works (AB6-a (AB Area Only))                                | 106 |      |     |     |     |   | 106 | 106 | 106 | 106 | 106 | 106 | 106 |      |   |   |   |   |   |   |   |   |    |    |    |

| Predicted Construction Noise, dB(A) |     |    |    |    |    |   |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------------|-----|----|----|----|----|---|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>NAP</b>                          | Max |    |    |    |    |   |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |
| POW-E2                              | 71  | 63 | 63 | 63 | 63 | 0 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| POW-E3                              | 75  | 72 | 72 | 72 | 72 | 0 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| POW-E4                              | 70  | 67 | 67 | 67 | 67 | 0 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Notes:

- As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.  
- Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).  
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
- "Cofferdam Works" and "Foundation Works" will not take place concurrently. The worst case is adopted for calculation.
- "Cofferdam Works", "Retaining Walls" and "Bored Pile Walls" will not take place concurrently. The worst case is adopted for calculation.
- "Excavation Works and "Adit and Underground Tunnel Works" will not take place concurrently. The worst case is adopted for calculation.
- A -8 dB(A) attenuation has been accounted for in predicting the noise levels at NAPs POW-E2 to POW-E4 due to the proposed 2.3m noise barrier for the activities "Retaining Walls" and "Bored Pile Wall". The attenuation from typical noise barriers/ acoustic mats, silencers, and noise enclosures are not double counted.
- Text in bold and underline denotes exceedance of relevant criterion.

ASSUME SOURCE HEIGHT: 1m  
 RECEIVER HEIGHT: 4.2m  
 BARRIER HEIGHT 2.3m



Extent of the proposed of noise barrier

### LEGEND

- PROPOSED NOL ALIGNMENT
- PROPOSED RAILWAY STATION OR OTHER RAILWAY FACILITIES
- PROPOSED RAILWAY STATION OR OTHER RAILWAY FACILITIES (UNDERGROUND)
- PLANNED DEVELOPMENT (BY OTHERS)
- WORKFRONTS
- REPRESENTATIVE NOISE ASSESSMENT POINT

0 100m

**Ngau Tam Mei Station (NTM), Ngau  
Tam Mei Depot (NTD), & Mined/  
D&B/ C&C/ Tunnel: NTD >  
Underground Tunnel**







**Project: Environmental Consultancy No. C1603 EIA Study for Northern Link**

**Title:** Construction Noise Calculation (Ngau Tam Mei Station (NTM), Ngau Tam Mei, Depot (NTD),  
**Scenario :** Mitigated Scenario

|   |     | 2031 |     |   |   |   |   |   |   |   |    |    |    |
|---|-----|------|-----|---|---|---|---|---|---|---|----|----|----|
|   |     | 1    | 2   | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Site Clearance, Preparation & Monitoring (NTM)                    | 104 |      |     |   |   |   |   |   |   |   |    |    |    |
| Road Works (NTM R1-1)   | 98  |      |     |   |   |   |   |   |   |   |    |    |    |
| Road Works (NTM R1-2)   | 98  |      |     |   |   |   |   |   |   |   |    |    |    |
| NTM Site Formation Works - Cut and Fill Works (NTM)               | 107 |      |     |   |   |   |   |   |   |   |    |    |    |
| D-wall and Piling Trial (NTM 1-8, 8-20 & 20-24)                   | 102 |      |     |   |   |   |   |   |   |   |    |    |    |
| D-wall, Piling and Excavation (NTM 1-8)                           | 108 |      |     |   |   |   |   |   |   |   |    |    |    |
| D-wall, Piling and Excavation (NTM 8-20)                          | 107 |      |     |   |   |   |   |   |   |   |    |    |    |
| D-wall, Piling and Excavation (NTM 20-24)                         | 104 |      |     |   |   |   |   |   |   |   |    |    |    |
| RC Structures (NTM 1-8)   | 106 |      |     |   |   |   |   |   |   |   |    |    |    |
| RC Structures (NTM 8-20)  | 104 |      |     |   |   |   |   |   |   |   |    |    |    |
| RC Structures (NTM 20-24)   | 104 | 104  | 104 |   |   |   |   |   |   |   |    |    |    |
| Structural Steel Works (NTM 8-20)                                 | 97  | 97   |     |   |   |   |   |   |   |   |    |    |    |
| Site Clearance, Preparation & Monitoring (NTD-1)                  | 104 |      |     |   |   |   |   |   |   |   |    |    |    |
| Site Clearance, Preparation & Monitoring (NTD-2)                  | 104 |      |     |   |   |   |   |   |   |   |    |    |    |
| Site Clearance, Preparation & Monitoring (NTD-3)                  | 104 |      |     |   |   |   |   |   |   |   |    |    |    |
| UU and Haul Road (NTD R1)   | 102 |      |     |   |   |   |   |   |   |   |    |    |    |
| UU and Roadworks (NTD R1)   | 103 |      |     |   |   |   |   |   |   |   |    |    |    |
| Backfilling Works (NTD-1)   | 110 |      |     |   |   |   |   |   |   |   |    |    |    |
| Open Excavation Works (NTD-2)                                     | 101 |      |     |   |   |   |   |   |   |   |    |    |    |
| Open Excavation Works (NTD-3)                                     | 101 |      |     |   |   |   |   |   |   |   |    |    |    |
| Retaining Wall Construction, South (NTD RW(S))                    | 110 |      |     |   |   |   |   |   |   |   |    |    |    |
| Retaining Wall Construction, East (NTD RW(E))                     | 105 |      |     |   |   |   |   |   |   |   |    |    |    |
| Retaining Wall Construction, North (NTD RW(N))                    | 104 |      |     |   |   |   |   |   |   |   |    |    |    |
| Bored Pile Wall Construction, West (NTD BPW(W))                   | 112 |      |     |   |   |   |   |   |   |   |    |    |    |
| Foundation Works for Deck Enclosure (NTD-1)                       | 106 |      |     |   |   |   |   |   |   |   |    |    |    |
| Foundation Works for Deck Enclosure (NTD-2)                       | 106 |      |     |   |   |   |   |   |   |   |    |    |    |
| Foundation Works for Deck Enclosure (NTD-3)                       | 106 |      |     |   |   |   |   |   |   |   |    |    |    |
| NTD RC Structures (NTD-1)   | 102 |      |     |   |   |   |   |   |   |   |    |    |    |
| NTD RC Structures (NTD-2)   | 105 |      |     |   |   |   |   |   |   |   |    |    |    |
| NTD RC Structures (NTD-3)   | 105 |      |     |   |   |   |   |   |   |   |    |    |    |
| Mined Tunnel NTD to Underground Tunnel (NTD > Underground Tunnel) | 102 |      |     |   |   |   |   |   |   |   |    |    |    |
| NTD C&C Tunnel (NTD > Underground Tunnel)                         | 108 |      |     |   |   |   |   |   |   |   |    |    |    |
| D&B Tunnel NTD to Underground Tunnel (NTD > Underground Tunnel)   | 102 |      |     |   |   |   |   |   |   |   |    |    |    |
| NTD C&C Tunnel Remaining Works (NTD > Underground Tunnel)         | 108 |      |     |   |   |   |   |   |   |   |    |    |    |
| NTD C&C Tunnel Backfilling (NTD > Underground Tunnel)             | 101 |      |     |   |   |   |   |   |   |   |    |    |    |

| Predicted Construction Noise, dB(A) |     |    |    |   |   |   |   |   |   |   |   |   |   |
|-------------------------------------|-----|----|----|---|---|---|---|---|---|---|---|---|---|
| NAP                                 | Max |    |    |   |   |   |   |   |   |   |   |   |   |
| NTM-E1                              | 74  | 54 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NTM-E2                              | 73  | 59 | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NTM-E3                              | 64  | 54 | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NTM-E4                              | 74  | 43 | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NTM-E5                              | 70  | 0  | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NTM-E6                              | 71  | 0  | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NTM-E7                              | 64  | 52 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NTM-E8                              | 71  | 52 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Notes:**

- As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.  
 - Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).  
 - A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the
- "D-wall, Piling & Excavation (NTM 1-8)" and "RC Structures (NTM 1-8)" will not take place concurrently. The worst case is adopted for calculation.
- "D-wall, Piling & Excavation (NTM 20-24)" and "RC Structures (NTM 20-24)" will not take place concurrently. The worst case is adopted for calculation.
- "Mined Tunnel NTD to Underground Tunnel (NTD > Underground Tunnel)" and "NTD C&C Tunnel (NTD > Underground Tunnel)" will not take place concurrently. The worst case is adopted for calculation.
- "Mined Tunnel NTD to Underground Tunnel (NTD > Underground Tunnel)" and "D&B Tunnel NTD to Underground Tunnel (NTD > Underground Tunnel)" will not take place concurrently. The worst case is adopted for calculation.
- D&B Tunnel NTD to Underground Tunnel (NTD > Underground Tunnel)" and "NTD C&C Tunnel Remaining Works (NTD > Underground Tunnel)" will not take place concurrently. The worst case is adopted for calculation.
- Text in bold and underline denotes exceedance of relevant criterion.

**San Tin Station (SAT) &  
San Tin Ancillary Building (EEP/VB)**





**Project: Environmental Consultancy No. C1603 EIA Study for Northern Link**

**Title:** Construction Noise Calculation (San Tin Station (SAT) & San Tin Ancillary Building (EEP/VB))  
**Scenario:** Mitigated Scenario

|   |     | 2032       |            |            |            |            |            |            |            |            |            |            |            | 2033       |            |            |            |            |            |            |            |            |            |            |            | 2034       |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
|---|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|----|----|----|
|   |     | 1          | 2          | 3          | 4          | 5          | 6          | 7          | 8          | 9          | 10         | 11         | 12         | 1          | 2          | 3          | 4          | 5          | 6          | 7          | 8          | 9          | 10         | 11         | 12         | 1          | 2          | 3          | 4          | 5          | 6          | 7          | 8          | 9          | 10         | 11         | 12         |            |           |           |    |    |    |
| Site Clearance, Preparation & Monitoring (SAT)          | 104 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| Site Clearance, Preparation & Monitoring (SAT R1)       | 104 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| Site Clearance, Preparation & Monitoring (SAT R2)       | 104 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| Site Clearance, Preparation & Monitoring (SAT Ex)       | 104 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| Site Formation Works (Backfilling) (SAT)                | 106 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| Road Works (SAT R1)                                     | 102 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| Road Works (SAT R2)                                     | 102 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| D-wall & Piling Trial (SAT)                             | 102 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| D-wall, Piling & Excavation (SAT N19-N27)               | 111 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| D-wall, Piling & Excavation (SAT N1-N19)                | 113 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| D-wall, Piling & Excavation (SAT Station 1-32-a)        | 113 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| D-wall, Piling & Excavation (SAT Station 1-32-b)        | 113 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| D-wall, Piling & Excavation (SAT S9-1)                  | 109 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| D-wall, Piling & Excavation (SAT S1-S9)                 | 107 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| RC Works (SAT N19-N27)                                  | 103 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| RC Works (SAT N1-N19)                                   | 108 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| RC Works (SAT 1-32)                                     | 110 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| RC Works (SAT S9-1)                                     | 108 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| RC Works (SAT S1-S9)                                    | 103 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| TBM Tunnel SAT to NTM (SAT S1-S9)                       | 104 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| Preliminary Works (SAT AB)                              | 104 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| UU, Road Works & Site Formation (SAT AB)                | 103 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| Cofferdam Works (SAT AB)                                | 103 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| Foundation Works (SAT AB)                               | 105 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| Excavation Works (SAT AB)                               | 99  |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| RC Works (SAT AB)                                       | 106 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| Construction Works for Concrete Batching Plant (CBP)    | 111 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| Operational Works for Concrete Batching Plant (CBP)     | 108 | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> | <b>108</b> |           |           |    |    |    |
| Demolition Works for Concrete Batching Plant (CBP)      | 95  |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           | 95 | 95 | 95 |
| <b>Other Concurrent Projects</b>                        |     |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |           |    |    |    |
| Predicted Construction Noise from CE20 at SAT-E4, dB(A) |     | <b>71</b>  | <b>71</b>  | <b>71</b>  | <b>72</b>  | <b>72</b>  | <b>72</b>  | <b>73</b>  | <b>73</b>  | <b>73</b>  | <b>72</b>  | <b>72</b>  | <b>72</b>  | <b>72</b>  | <b>72</b>  | <b>71</b>  | <b>71</b>  | <b>71</b>  | <b>71</b>  | <b>71</b>  | <b>71</b>  | <b>71</b>  | <b>71</b>  | <b>71</b>  | <b>71</b>  | <b>71</b>  | <b>71</b>  | <b>68</b>  | <b>68</b>  | <b>68</b>  | <b>68</b>  | <b>68</b>  | <b>68</b>  | <b>68</b>  | <b>68</b>  | <b>68</b>  | <b>68</b>  | <b>68</b>  | <b>68</b> | <b>68</b> |    |    |    |

**Predicted Construction Noise, dB(A)**

|        | Max       | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |    |    |    |    |    |    |    |    |
|--------|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| SAT-E1 | <b>70</b> | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |    |
| SAT-E2 | 72        | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| SAT-E3 | 69        | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |    |
| SAT-E4 | 74        | 73 | 73 | 73 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 |
| SAT-E5 | 71        | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 |
| SAT-E6 | 71        | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |

Notes:

1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.
- Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
2. "Site Clearance, Preparation & Monitoring" and "Road Works" will not take place concurrently. The worst case is adopted for calculation.
3. "D-wall & Piling Trial" and "D-wall, Piling & Excavation" will not take place concurrently. The worst case is adopted for calculation.
4. "D-wall, Piling & Excavation (SAT N19-N27)" and "RC Works (SAT N19-N27)" will not take place concurrently. The worst case is adopted for calculation.
5. "Excavation Works (SAT AB)" and "RC Works (SAT AB)" will not take place concurrently. The worst case is adopted for calculation.
6. Noise from construction vehicles has been included in the calculation.
7. The cumulative impact from CE20 has been included in the calculation for SAT-E4.
8. Text in bold and underline denotes exceedance of relevant criterion.

**Project :**  
**Title :**  
**Subtitle :**

Consultancy Agreement No. C1603 EIA Study for Northern Link  
 Noise from Haul Road (San Tin Station (SAT))

**NAP : SAT-E1**

| Source   | Period | SWL / Unit<br>dB(A) | Qty<br>Nos | % Util | Total<br>SWL<br>dB(A) | Dist<br>m | Speed<br>kph | [2]<br>Angle<br>deg | Correction [1] |                 |              |                |                | SPL           |                  |
|--|--------|---------------------|------------|--------|-----------------------|-----------|--------------|---------------------|----------------|-----------------|--------------|----------------|----------------|---------------|------------------|
|  |        |                     |            |        |                       |           |              |                     | Dist<br>dB(A)  | Facade<br>dB(A) | Air<br>dB(A) | Speed<br>dB(A) | Angle<br>dB(A) | Topo<br>dB(A) | Daytime<br>dB(A) |
| Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne (Harl Road 1) | II     | 105                 | 166        | 100    | 127                   | 105       | 20           | 115                 | -20            | 3               | 0            | -13            | -2             |               | 62               |
| <b>Noise Impacts from Haul Road, dB(A)</b>                       |        |                     |            |        |                       |           |              |                     |                |                 |              |                |                |               | <b>62</b>        |

Note:

- I - Daytime, evening and night-time operation
- II - Daytime operation only
- III - Evening operation only

[1] : Based on BS 5228 Pt 1: 1997 D3.5.2 Method for mobile plant using a regular well defined route (haul road)

$$L_{eq} = L_w - 33 + 10 \log (Qty) - 10 \log (\text{speed}) - 10 \log (\text{dist}) + 10 \log (\text{angle} / 180) + C_{\text{facade}}$$

[2] : A view angle of 180 deg has been assumed for conservative assessment

**Project :**  
**Title :**  
**Subtitle :**

Consultancy Agreement No. C1603 EIA Study for Northern Link  
 Noise from Haul Road (San Tin Station (SAT))

**NAP : SAT-E2**

| Source   | Period | SWL / Unit<br>dB(A) | Qty<br>Nos | % Util | Total<br>SWL<br>dB(A) | Dist<br>m | Speed<br>kph | [2]<br>Angle<br>deg | Correction [1] |                 |              |                |                | SPL           |                  |
|--|--------|---------------------|------------|--------|-----------------------|-----------|--------------|---------------------|----------------|-----------------|--------------|----------------|----------------|---------------|------------------|
|  |        |                     |            |        |                       |           |              |                     | Dist<br>dB(A)  | Facade<br>dB(A) | Air<br>dB(A) | Speed<br>dB(A) | Angle<br>dB(A) | Topo<br>dB(A) | Daytime<br>dB(A) |
| Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne (Harl Road 1) | II     | 105                 | 166        | 100    | 127                   | 85        | 20           | 140                 | -19            | 3               | 0            | -13            | -1             |               | 64               |
| <b>Noise Impacts from Haul Road, dB(A)</b>                       |        |                     |            |        |                       |           |              |                     |                |                 |              |                |                |               | <b>64</b>        |

Note:

- I - Daytime, evening and night-time operation
- II - Daytime operation only
- III - Evening operation only

[1] : Based on BS 5228 Pt 1: 1997 D3.5.2 Method for mobile plant using a regular well defined route (haul road)

$$L_{eq} = L_w - 33 + 10 \log (Qty) - 10 \log (\text{speed}) - 10 \log (\text{dist}) + 10 \log (\text{angle} / 180) + C_{\text{facade}}$$

[2] : A view angle of 180 deg has been assumed for conservative assessment

**Project :**  
**Title :**  
**Subtitle :**

Consultancy Agreement No. C1603 EIA Study for Northern Link  
 Noise from Haul Road (San Tin Station (SAT))

**NAP : SAT-E3**

| Source   | Period | SWL / Unit<br>dB(A) | Qty<br>Nos | % Util | Total<br>SWL<br>dB(A) | Dist<br>m | Speed<br>kph | [2]<br>Angle<br>deg | Correction [1] |                 |              |                |                | SPL           |                  |
|--|--------|---------------------|------------|--------|-----------------------|-----------|--------------|---------------------|----------------|-----------------|--------------|----------------|----------------|---------------|------------------|
|  |        |                     |            |        |                       |           |              |                     | Dist<br>dB(A)  | Facade<br>dB(A) | Air<br>dB(A) | Speed<br>dB(A) | Angle<br>dB(A) | Topo<br>dB(A) | Daytime<br>dB(A) |
| Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne (Harl Road 1) | II     | 105                 | 167        | 100    | 127                   | 180       | 20           | 65                  | -23            | 3               | -1           | -13            | -4             |               | 57               |
| <b>Noise Impacts from Haul Road, dB(A)</b>                       |        |                     |            |        |                       |           |              |                     |                |                 |              |                |                | <b>57</b>     |                  |

Note:

- I - Daytime, evening and night-time operation
- II - Daytime operation only
- III - Evening operation only

[1] : Based on BS 5228 Pt 1: 1997 D3.5.2 Method for mobile plant using a regular well defined route (haul road)

$$L_{eq} = L_w - 33 + 10 \log (Qty) - 10 \log (\text{speed}) - 10 \log (\text{dist}) + 10 \log (\text{angle} / 180) + C_{\text{facade}}$$

[2] : A view angle of 180 deg has been assumed for conservative assessment



**Project :**  
**Title :**  
**Subtitle :**

Consultancy Agreement No. C1603 EIA Study for Northern Link  
 Noise from Haul Road (San Tin Station (SAT))

**NAP : SAT-E4**

| Source   | Period | SWL / Unit<br>dB(A) | Qty<br>Nos | % Util | Total<br>SWL<br>dB(A) | Dist<br>m | Speed<br>kph | [2]<br>Angle<br>deg | Correction [1] |                 |              |                |                | SPL           |                  |
|--|--------|---------------------|------------|--------|-----------------------|-----------|--------------|---------------------|----------------|-----------------|--------------|----------------|----------------|---------------|------------------|
|  |        |                     |            |        |                       |           |              |                     | Dist<br>dB(A)  | Facade<br>dB(A) | Air<br>dB(A) | Speed<br>dB(A) | Angle<br>dB(A) | Topo<br>dB(A) | Daytime<br>dB(A) |
| Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne (Harl Road 1) | II     | 105                 | 167        | 100    | 127                   | 40        | 20           | 180                 | -16            | 3               | 0            | -13            | 0              |               | 68               |
| <b>Noise Impacts from Haul Road, dB(A)</b>                       |        |                     |            |        |                       |           |              |                     |                |                 |              |                |                |               | <b>68</b>        |

Note:

- I - Daytime, evening and night-time operation
- II - Daytime operation only
- III - Evening operation only

[1] : Based on BS 5228 Pt 1: 1997 D3.5.2 Method for mobile plant using a regular well defined route (haul road)

$$L_{eq} = L_w - 33 + 10 \log (Qty) - 10 \log (\text{speed}) - 10 \log (\text{dist}) + 10 \log (\text{angle} / 180) + C_{\text{facade}}$$

[2] : A view angle of 180 deg has been assumed for conservative assessment

**Project :**  
**Title :**  
**Subtitle :**

Consultancy Agreement No. C1603 EIA Study for Northern Link  
 Noise from Haul Road (San Tin Station (SAT))

**NAP : SAT-E5**

| Source   | Period | SWL / Unit<br>dB(A) | Qty<br>Nos | % Util | Total<br>SWL<br>dB(A) | Dist<br>m | Speed<br>kph | [2]<br>Angle<br>deg | Correction [1] |                 |              |                |                | SPL           |                  |
|--|--------|---------------------|------------|--------|-----------------------|-----------|--------------|---------------------|----------------|-----------------|--------------|----------------|----------------|---------------|------------------|
|  |        |                     |            |        |                       |           |              |                     | Dist<br>dB(A)  | Facade<br>dB(A) | Air<br>dB(A) | Speed<br>dB(A) | Angle<br>dB(A) | Topo<br>dB(A) | Daytime<br>dB(A) |
| Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne (Harl Road 1) | II     | 105                 | 167        | 100    | 127                   | 140       | 20           | 60                  | -21            | 3               | 0            | -13            | -5             |               | 58               |
| <b>Noise Impacts from Haul Road, dB(A)</b>                       |        |                     |            |        |                       |           |              |                     |                |                 |              |                |                |               | <b>58</b>        |

Note:

- I - Daytime, evening and night-time operation
- II - Daytime operation only
- III - Evening operation only

[1] : Based on BS 5228 Pt 1: 1997 D3.5.2 Method for mobile plant using a regular well defined route (haul road)

$$L_{eq} = L_w - 33 + 10 \log (Qty) - 10 \log (\text{speed}) - 10 \log (\text{dist}) + 10 \log (\text{angle} / 180) + C_{\text{facade}}$$

[2] : A view angle of 180 deg has been assumed for conservative assessment

**Project :**  
**Title :**  
**Subtitle :**

Consultancy Agreement No. C1603 EIA Study for Northern Link  
 Noise from Haul Road (San Tin Station (SAT))

**NAP : SAT-E6**

| Source   | Period | SWL / Unit<br>dB(A) | Qty<br>Nos | % Util | Total<br>SWL<br>dB(A) | Dist<br>m | Speed<br>kph | [2]<br>Angle<br>deg | Correction [1]   |                 |              |                |                | SPL           |                  |
|--|--------|---------------------|------------|--------|-----------------------|-----------|--------------|---------------------|--|-----------------|--------------|----------------|----------------|---------------|------------------|
|  |        |                     |            |        |                       |           |              |                     | Dist<br>dB(A)  | Facade<br>dB(A) | Air<br>dB(A) | Speed<br>dB(A) | Angle<br>dB(A) | Topo<br>dB(A) | Daytime<br>dB(A) |
| Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne (Harl Road 1) | II     | 105                 | 167        | 100    | 127                   | 340       | 20           | NA                  | The source is located more than 300m away from NAP SAT-E6 and hence not included in the calculation. |                 |              |                |                |               |                  |
| <b>Noise Impacts from Haul Road, dB(A)</b>                       |        |                     |            |        |                       |           |              |                     |  |                 | -            |                |                |               |                  |

Note:

- I - Daytime, evening and night-time operation
- II - Daytime operation only
- III - Evening operation only

[1] : Based on BS 5228 Pt 1: 1997 D3.5.2 Method for mobile plant using a regular well defined route (haul road)

$$L_{eq} = L_w - 33 + 10 \log (Qty) - 10 \log (\text{speed}) - 10 \log (\text{dist}) + 10 \log (\text{angle} / 180) + C_{\text{facade}}$$

[2] : A view angle of 180 deg has been assumed for conservative assessment

**Ka Lung Road Ancillary Building  
(EAP/EEP)**

**Project: Environmental Consultancy No. C1603 EIA Study for Northern Link**

**Title:** Construction Noise Calculation (Ka Lung Road Ancillary Building (EAP/EEP))

**Scenario:** Scenario with Cumulative Impact from Concurrent Projects (No Mitigation Measures Required)

|  |     | 2026 |   |   |   |   |   |   |   |   |     |     |     | 2027 |     |     |     |     |     |     |     |     |     |     |     | 2028 |     |     |     |     |     |     |     |     |     |     |     |     |
|--|-----|------|---|---|---|---|---|---|---|---|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|  |     | 1    | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10  | 11  | 12  | 1    | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 1    | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  |     |
| Preliminary Works (Whole Area)             | 117 |      |   |   |   |   |   |   |   |   | 117 | 117 |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |
| UU, Road Works and Site Formation (AB11-b) | 116 |      |   |   |   |   |   |   |   |   |     | 116 | 116 | 116  | 116 |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |
| Site Formation (Bored Pile) (AB11-BPW)     | 117 |      |   |   |   |   |   |   |   |   |     |     | 117 | 117  | 117 | 117 | 117 | 117 | 117 | 117 | 117 | 117 |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |
| Cofferdam Works (AB11-a)                   | 119 |      |   |   |   |   |   |   |   |   |     |     |     |      |     |     |     | 119 | 119 | 119 | 119 |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |
| Foundation Works (AB11-a)                  | 118 |      |   |   |   |   |   |   |   |   |     |     |     |      |     |     |     |     |     | 118 | 118 | 118 | 118 | 118 | 118 |      |     |     |     |     |     |     |     |     |     |     |     |     |
| Excavation Works (AB11-a)                  | 116 |      |   |   |   |   |   |   |   |   |     |     |     |      |     |     |     |     |     |     |     |     |     |     | 116 | 116  | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 |
| RC Works (AB11-a)                          | 117 |      |   |   |   |   |   |   |   |   |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     | 117 | 117 |     |
| Retaining Wall Works (AB11-a)              | 116 |      |   |   |   |   |   |   |   |   |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |

**Other Concurrent Projects**

|  |  |  |  |  |  |  |  |  |  |  |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--|--|--|--|--|--|--|--|--|--|--|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Predicted Construction Noise from CE20 at KLR-E1 for cumulative impact assessment, dB(A) |  |  |  |  |  |  |  |  |  |  |  | 68 | 68 | 69 | 69 | 69 | 69 | 64 | 64 | 64 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 63 | 63 | 63 | 65 | 65 | 65 | 65 | 65 |
|--|--|--|--|--|--|--|--|--|--|--|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

| Predicted Construction Noise, dB(A) |     | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |  |
|-------------------------------------|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| NAP                                 | Max |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| KLR-E1                              | 71  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 70 | 70 | 71 | 71 | 71 | 69 | 66 | 66 | 66 | 67 | 67 | 68 | 68 | 67 | 67 | 67 | 67 | 66 | 65 | 65 | 65 | 66 | 66 | 66 | 66 | 66 |  |

**Notes:**

- 1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.  
- Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).  
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
- 2. "Preliminary Works" and "UU, Road Works and Site Formation" will not take place concurrently. The worst case is adopted for calculation.
- 3. "Site Formation (Bored Pile)" and "Cofferdam Works" will not take place concurrently. The worst case is adopted for calculation.
- 4. "Foundation Works" and "Excavation Works" will not take place concurrently. The worst case is adopted for calculation.
- 5. "Excavation Works" and "RC Works" will not take place concurrently. The worst case is adopted for calculation.
- 6. Text in bold and underline denotes exceedance of relevant criterion.
- 7. The cumulative impact from CE20 has been included in the calculation for KLR-E1.
- 8. No mitigation measures are required as construction noise exceedance is not anticipated.

**Project: Environmental Consultancy No. C1603 EIA Study for Northern Link**

**Title:** Construction Noise Calculation (Ka Lung Road Ancillary Building (EAP/EEP))

**Scenario:** Scenario with Cumulative Impact from Concurrent Projects (No Mitigation Measures Required)

|  |     | 2029 |     |     |     |     |     |     |     |     |     |     |     |
|--|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|  |     | 1    | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  |
| Preliminary Works (Whole Area)   | 117 |      |     |     |     |     |     |     |     |     |     |     |     |
| UU, Road Works and Site Formation (AB11-b)   | 116 |      |     |     |     |     |     |     |     |     |     |     |     |
| Site Formation (Bored Pile) (AB11-BPW)   | 117 |      |     |     |     |     |     |     |     |     |     |     |     |
| Cofferdam Works (AB11-a)   | 119 |      |     |     |     |     |     |     |     |     |     |     |     |
| Foundation Works (AB11-a)  | 118 |      |     |     |     |     |     |     |     |     |     |     |     |
| Excavation Works (AB11-a)  | 116 |      |     |     |     |     |     |     |     |     |     |     |     |
| RC Works (AB11-a)  | 117 | 117  | 117 | 117 | 117 | 117 | 117 | 117 | 117 | 117 | 117 | 117 | 117 |
| Retaining Wall Works (AB11-a)  | 116 |      |     |     |     | 116 | 116 | 116 | 116 |     |     |     |     |
| <b>Other Concurrent Projects</b>   |     |      |     |     |     |     |     |     |     |     |     |     |     |
| Predicted Construction Noise from CE20 at KLR-E1 for cumulative impact assessment, dB(A) |     | 65   | 65  | 65  | 65  | 65  | 65  | 64  | 64  | 64  | 64  | 64  | 64  |

| <b>Predicted Construction Noise, dB(A)</b> |            |    |    |    |    |    |    |    |    |    |    |    |    |
|--|------------|----|----|----|----|----|----|----|----|----|----|----|----|
| <b>NAP</b>                                 | <b>Max</b> |    |    |    |    |    |    |    |    |    |    |    |    |
| KLR-E1                                     | 71         | 66 | 66 | 66 | 67 | 67 | 67 | 67 | 67 | 66 | 66 | 66 | 66 |

Notes:

- As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.  
- Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).  
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
- "Preliminary Works" and "UU, Road Works and Site Formation" will not take place concurrently. The worst case is adopted for calculation.
- "Site Formation (Bored Pile)" and "Cofferdam Works" will not take place concurrently. The worst case is adopted for calculation.
- "Foundation Works" and "Excavation Works" will not take place concurrently. The worst case is adopted for calculation.
- "Excavation Works" and "RC Works" will not take place concurrently. The worst case is adopted for calculation.
- Text in bold and underline denotes exceedance of relevant criterion.
- The cumulative impact from CE20 has been included in the calculation for KLR-E1.
- No mitigation measures are required as construction noise exceedance is not anticipated.

**Kwu Tung Road Ancillary Building  
(EAP/EEP/VB)**

**Project: Environmental Consultancy No. C1603 EIA Study for Northern Link**

**Title:** Construction Noise Calculation (Kwu Tung Road Ancillary Building (EAP/EEP/VB))

**Scenario:** Mitigated Scenario

|  |     | 2026 |   |   |   |   |   |   |   |   |     |     |     | 2027 |     |     |     |     |     |     |     |     |     |     |     | 2028 |   |   |   |   |   |   |   |     |     |     |     |     |     |
|--|-----|------|---|---|---|---|---|---|---|---|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|---|---|---|---|---|---|---|-----|-----|-----|-----|-----|-----|
|  |     | 1    | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10  | 11  | 12  | 1    | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 1    | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9   | 10  | 11  | 12  |     |     |
| Preliminary Works (AB13)                 | 104 |      |   |   |   |   |   |   |   |   | 104 | 104 | 104 |      |     |     |     |     |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |     |     |     |     |     |     |
| UU, Road Works and Site Formation (AB13) | 103 |      |   |   |   |   |   |   |   |   |     | 103 | 103 |      |     |     |     |     |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |     |     |     |     |     |     |
| Cofferdam Works (AB13)                   | 113 |      |   |   |   |   |   |   |   |   |     |     |     |      | 113 | 113 | 113 | 113 | 113 | 113 | 113 | 113 | 113 | 113 | 113 |      |   |   |   |   |   |   |   |     |     |     |     | 113 |     |
| Foundation Works (AB13)                  | 107 |      |   |   |   |   |   |   |   |   |     |     |     | 107  | 107 | 107 | 107 |     |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |     | 107 | 107 | 107 | 107 | 107 |
| Excavation Works (AB13)                  | 99  |      |   |   |   |   |   |   |   |   |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   | 99  | 99  | 99  | 99  | 99  |     |
| Road Works (AB13)                        | 100 |      |   |   |   |   |   |   |   |   |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   | 100 | 100 | 100 |     |     |     |
| RC Works (AB13)                          | 106 |      |   |   |   |   |   |   |   |   |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |   |   |   |   |   |   |   |     |     |     |     |     |     |

| Predicted Construction Noise, dB(A) |    |     |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |    |    |    |    |    |    |  |  |  |
|-------------------------------------|----|-----|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|----|----|----|----|----|----|----|--|--|--|
| NAP                                 |    | Max |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |    |    |    |    |    |    |  |  |  |
| KTR-E1                              | 67 | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 64 | 67 | 67 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |    |    |    |    |    |    |  |  |  |
| KTR-E2                              | 67 | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 64 | 67 | 67 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |    |    |    |    |    |    |  |  |  |
| KTR-E3                              | 59 | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 | 51 | 51 | 52 | 58 | 58 | 58 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 0 | 0 | 45 | 48 | 53 | 53 | 53 | 53 | 59 |  |  |  |

- Notes:
1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.  
- Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).  
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
  2. Cell with shaded area denotes the unoccupancy of the NAP (i.e. being resumed under San Tin Lok Ma Chau Development Node).
  3. Text in bold and underline denotes exceedance of relevant criterion.



**Project: Environmental Consultancy No. C1603 EIA Study for Northern Link**

**Title:** Construction Noise Calculation (Kwu Tung Road Ancillary Building (EAP/EEP/VB))

**Scenario:** Mitigated Scenario

|  |     | 2029 |     |     |     |     |     |     |     |     |     |     |     | 2030 |     |     |     |     |   |   |   |   |    |    |    |
|--|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|---|---|---|---|----|----|----|
|  |     | 1    | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 1    | 2   | 3   | 4   | 5   | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Preliminary Works (AB13)                 | 104 |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |   |   |   |   |    |    |    |
| UU, Road Works and Site Formation (AB13) | 103 |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |   |   |   |   |    |    |    |
| Cofferdam Works (AB13)                   | 113 | 113  | 113 | 113 | 113 |     |     |     |     |     |     |     |     |      |     |     |     |     |   |   |   |   |    |    |    |
| Foundation Works (AB13)                  | 107 |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |   |   |   |   |    |    |    |
| Excavation Works (AB13)                  | 99  | 99   |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |   |   |   |   |    |    |    |
| Road Works (AB13)                        | 100 |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |   |   |   |   |    |    |    |
| RC Works (AB13)                          | 106 | 106  | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106  | 106 | 106 | 106 | 106 |   |   |   |   |    |    |    |

| Predicted Construction Noise, dB(A) |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
|-------------------------------------|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|--|
| NAP                                 | Max |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
| KTR-E1                              | 67  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
| KTR-E2                              | 67  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
| KTR-E3                              | 59  | 58 | 58 | 58 | 58 | 58 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 0 | 0 | 0 | 0 |  |

Notes:

- As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.  
 - Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).  
 - A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
- Cell with shaded area denotes the unoccupancy of the NAP (i.e. being resumed under San Tin Lok Ma Chau Development Node).
- Text in bold and underline denotes exceedance of relevant criterion.

**Pak Shek Au Ancillary Building  
(EAP/EEP)**



**Project: Environmental Consultancy No. C1603 EIA Study for Northern Link**

**Title: Construction Noise Calculation (Pak Shek Au Ancillary Building (EAP/EEP))**

**Scenario: Mitigated Scenario**

|  |     | 2028 |     |     |     |     |     |     |     |     |     |     |     |
|--|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|  |     | 1    | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  |
| Preliminary Works (AB14)   | 104 |      |     |     |     |     |     |     |     |     |     |     |     |
| UU, Road Works and Site Formation (AB14)                           | 103 |      |     |     |     |     |     |     |     |     |     |     |     |
| Cofferdam Works (AB Area)  | 110 |      |     |     |     |     |     |     |     |     |     |     |     |
| Foundation Works (AB Area)   | 111 |      |     |     |     |     |     |     |     |     |     |     |     |
| Excavation Works (AB14)  | 99  |      |     |     |     |     |     |     |     |     |     |     |     |
| RC Works (AB14)  | 106 |      |     |     |     |     |     |     |     |     |     |     |     |
| Site Clearance and Establishment (CLP Site Clearance)              | 100 |      |     |     |     |     |     |     |     |     |     |     |     |
| Construction of Permanent Substation (CLP Substation Construction) | 102 | 102  | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 |

| <b>Predicted Construction Noise, dB(A)</b> |     |    |    |    |    |    |    |    |    |    |    |    |   |
|--|-----|----|----|----|----|----|----|----|----|----|----|----|---|
| <b>NAP</b>                                 | Max |    |    |    |    |    |    |    |    |    |    |    |   |
| PSA-E1                                     | 70  | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 0 |

Notes:

- As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.  
- Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).  
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
- Preliminary Works and UU, Road Works and Site Formation will not take place concurrently. The worst case is adopted for calculation.
- Cofferdam Works and Foundation Works will not take place concurrently. The worst case is adopted for calculation.
- Site Clearance and Establishment (CLP) and Construction Temporary Substation (CLP) will not take place concurrently. The worst case is adopted for calculation.
- Text in bold and underline denotes exceedance of relevant criterion.

**Kwu Tung Station (KTU) (NOL)**

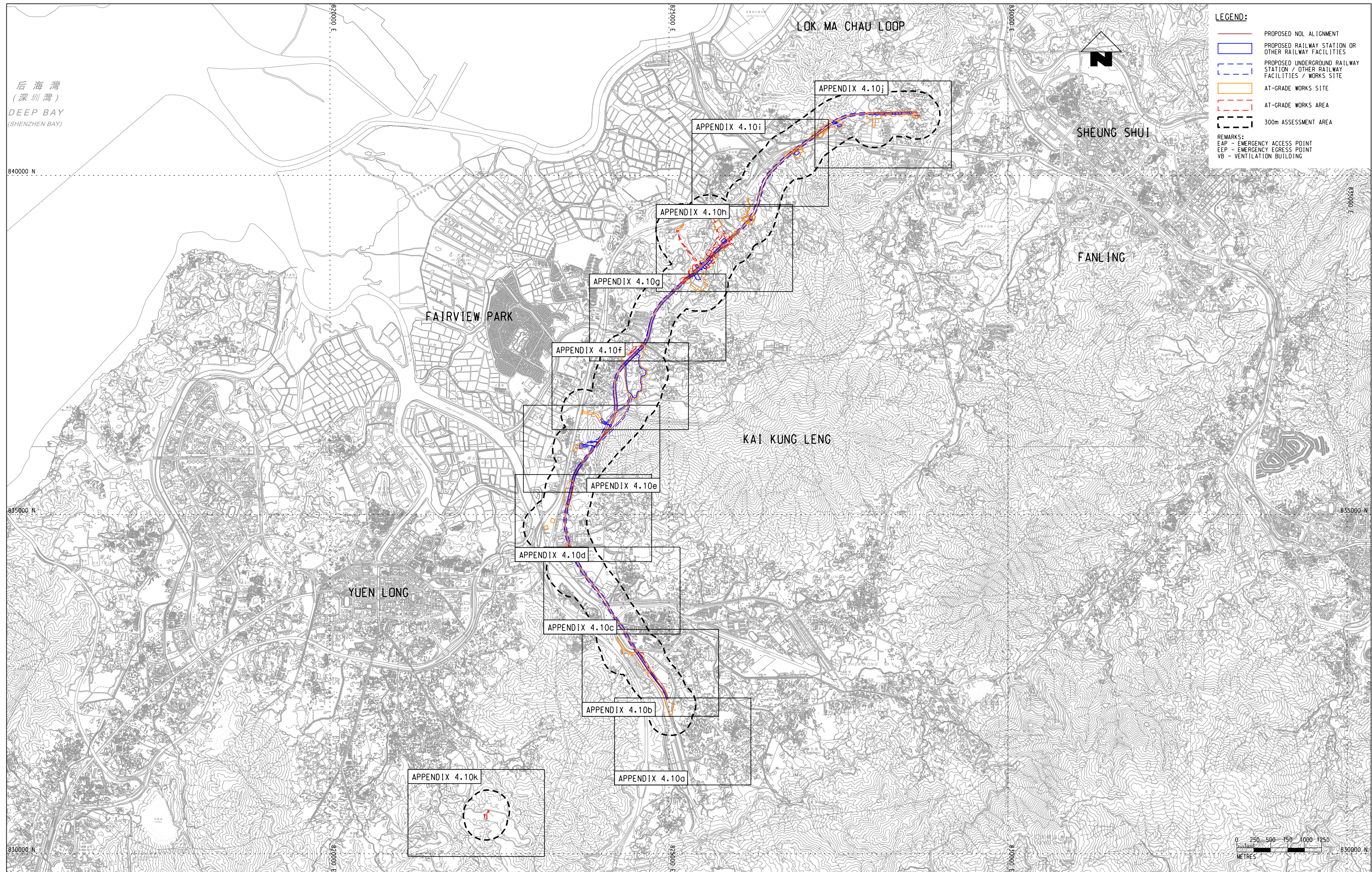




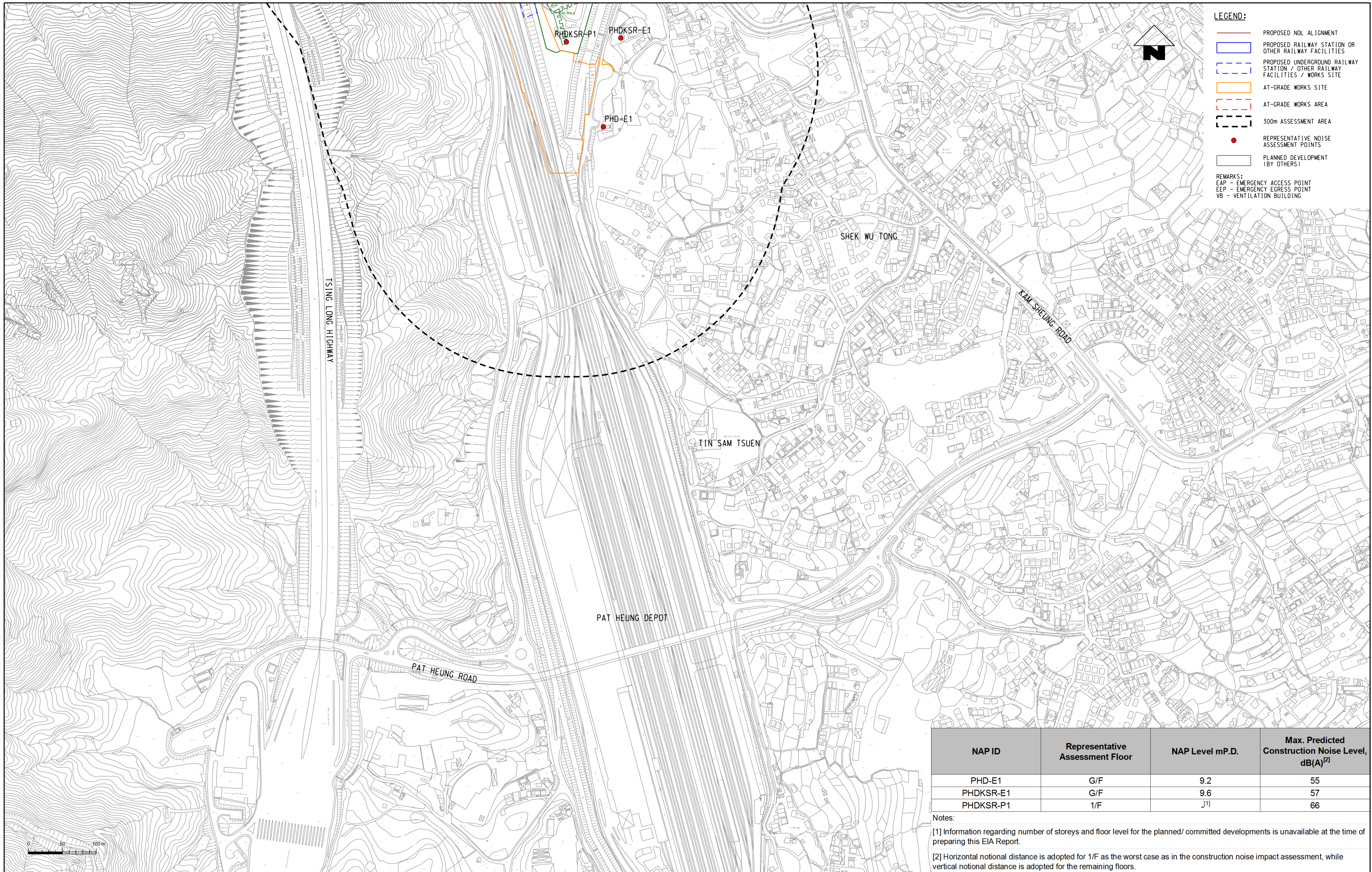




APPENDIX 4.10







**LEGEND:**

- PROPOSED NOL ALIGNMENT
- PROPOSED RAILWAY STATION OR OTHER RAILWAY FACILITIES
- PROPOSED UNDERGROUND RAILWAY STATION / OTHER RAILWAY FACILITIES / WORKS SITE
- AT-GRADE WORKS SITE
- AT-GRADE WORKS AREA
- 300m ASSESSMENT AREA
- REPRESENTATIVE NOISE ASSESSMENT POINTS
- PLANNED DEVELOPMENT (BY OTHERS)

**REMARKS:**  
 EAP - EMERGENCY ACCESS POINT  
 EEP - EMERGENCY EGRESS POINT  
 VB - VENTILATION BUILDING

| NAP ID    | Representative Assessment Floor | NAP Level mP.D. | Max. Predicted Construction Noise Level, dB(A) <sup>[2]</sup> |
|-----------|---------------------------------|-----------------|---|
| PHD-E1    | G/F                             | 9.2             | 55  |
| PHDKSR-E1 | G/F                             | 9.6             | 57  |
| PHDKSR-P1 | 1/F                             | 9.1             | 66  |

Notes:

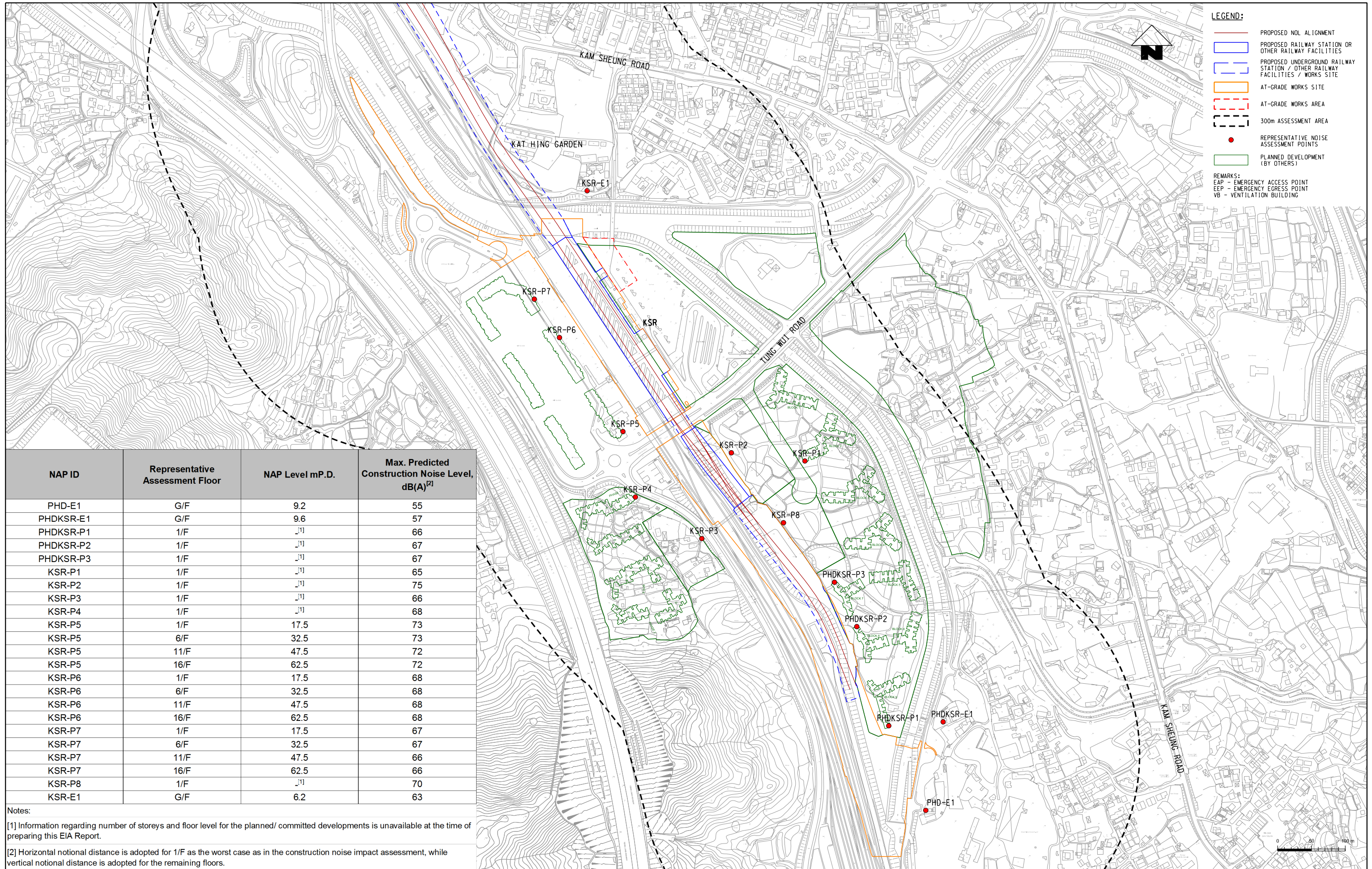
[1] Information regarding number of storeys and floor level for the planned/ committed developments is unavailable at the time of preparing this EIA Report.

[2] Horizontal notional distance is adopted for 1/F as the worst case as in the construction noise impact assessment, while vertical notional distance is adopted for the remaining floors.





APPENDIX 4.10b

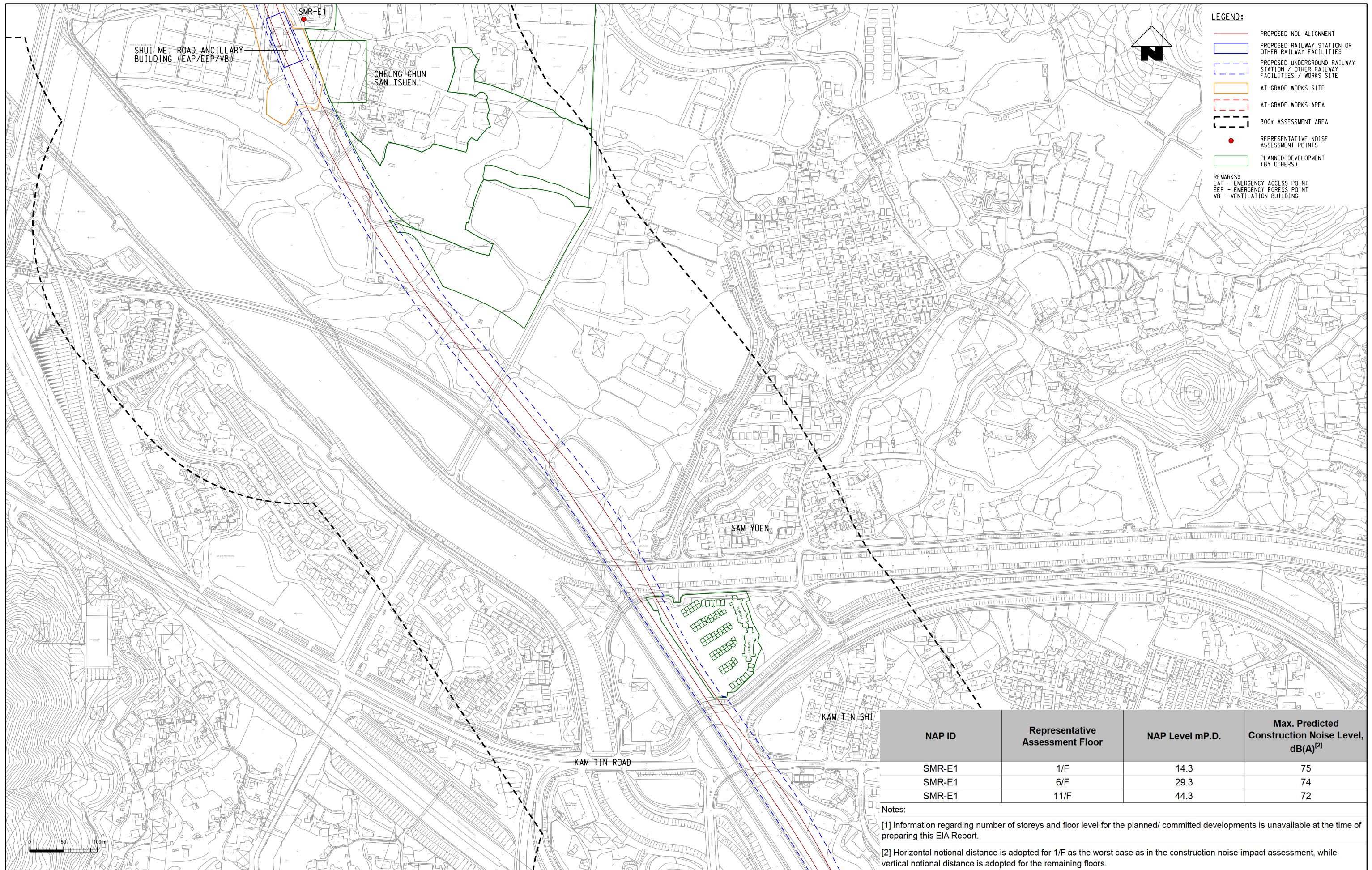


| NAP ID    | Representative Assessment Floor | NAP Level mP.D. | Max. Predicted Construction Noise Level, dB(A) <sup>[2]</sup> |
|-----------|---------------------------------|-----------------|---|
| PHD-E1    | G/F                             | 9.2             | 55  |
| PHDKSR-E1 | G/F                             | 9.6             | 57  |
| PHDKSR-P1 | 1/F                             | 11              | 66  |
| PHDKSR-P2 | 1/F                             | 11              | 67  |
| PHDKSR-P3 | 1/F                             | 11              | 67  |
| KSR-P1    | 1/F                             | 11              | 65  |
| KSR-P2    | 1/F                             | 11              | 75  |
| KSR-P3    | 1/F                             | 11              | 66  |
| KSR-P4    | 1/F                             | 11              | 68  |
| KSR-P5    | 1/F                             | 17.5            | 73  |
| KSR-P5    | 6/F                             | 32.5            | 73  |
| KSR-P5    | 11/F                            | 47.5            | 72  |
| KSR-P5    | 16/F                            | 62.5            | 72  |
| KSR-P6    | 1/F                             | 17.5            | 68  |
| KSR-P6    | 6/F                             | 32.5            | 68  |
| KSR-P6    | 11/F                            | 47.5            | 68  |
| KSR-P6    | 16/F                            | 62.5            | 68  |
| KSR-P7    | 1/F                             | 17.5            | 67  |
| KSR-P7    | 6/F                             | 32.5            | 67  |
| KSR-P7    | 11/F                            | 47.5            | 66  |
| KSR-P7    | 16/F                            | 62.5            | 66  |
| KSR-P8    | 1/F                             | 11              | 70  |
| KSR-E1    | G/F                             | 6.2             | 63  |

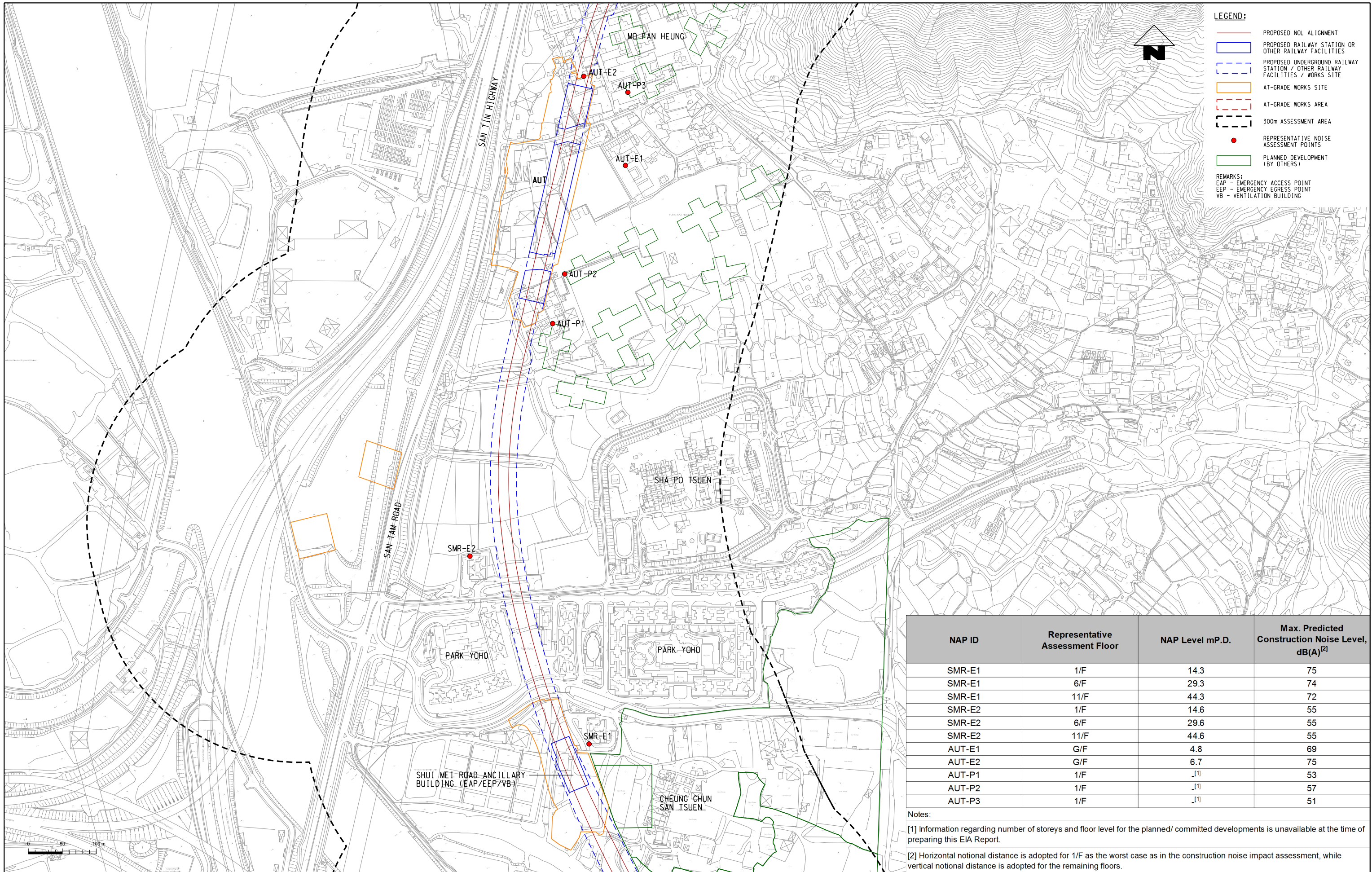
Notes:  
 [1] Information regarding number of storeys and floor level for the planned/ committed developments is unavailable at the time of preparing this EIA Report.  
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APPENDIX 4.10c







**LEGEND:**

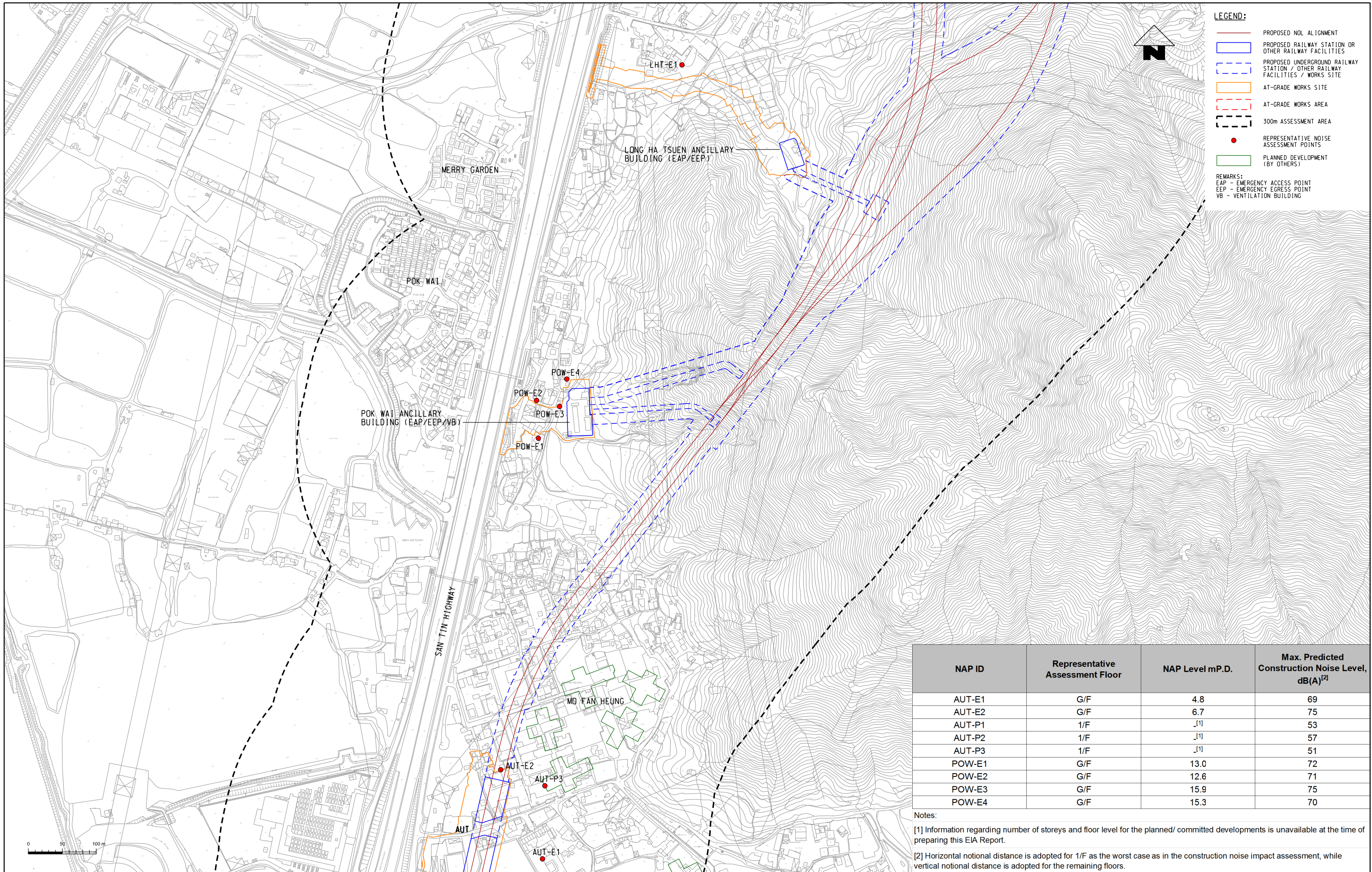
- PROPOSED NOL ALIGNMENT
- PROPOSED RAILWAY STATION OR OTHER RAILWAY FACILITIES
- PROPOSED UNDERGROUND RAILWAY STATION / OTHER RAILWAY FACILITIES / WORKS SITE
- AT-GRADE WORKS SITE
- AT-GRADE WORKS AREA
- 300m ASSESSMENT AREA
- REPRESENTATIVE NOISE ASSESSMENT POINTS
- PLANNED DEVELOPMENT (BY OTHERS)

**REMARKS:**  
 EAP - EMERGENCY ACCESS POINT  
 EEP - EMERGENCY EGRESS POINT  
 VB - VENTILATION BUILDING

| NAP ID | Representative Assessment Floor | NAP Level mP.D.  | Max. Predicted Construction Noise Level, dB(A) <sup>[2]</sup> |
|--------|---------------------------------|------------------|---|
| SMR-E1 | 1/F                             | 14.3             | 75  |
| SMR-E1 | 6/F                             | 29.3             | 74  |
| SMR-E1 | 11/F                            | 44.3             | 72  |
| SMR-E2 | 1/F                             | 14.6             | 55  |
| SMR-E2 | 6/F                             | 29.6             | 55  |
| SMR-E2 | 11/F                            | 44.6             | 55  |
| AUT-E1 | G/F                             | 4.8              | 69  |
| AUT-E2 | G/F                             | 6.7              | 75  |
| AUT-P1 | 1/F                             | . <sup>[1]</sup> | 53  |
| AUT-P2 | 1/F                             | . <sup>[1]</sup> | 57  |
| AUT-P3 | 1/F                             | . <sup>[1]</sup> | 51  |

Notes:  
 [1] Information regarding number of storeys and floor level for the planned/ committed developments is unavailable at the time of preparing this EIA Report.  
 [2] Horizontal notional distance is adopted for 1/F as the worst case as in the construction noise impact assessment, while vertical notional distance is adopted for the remaining floors.

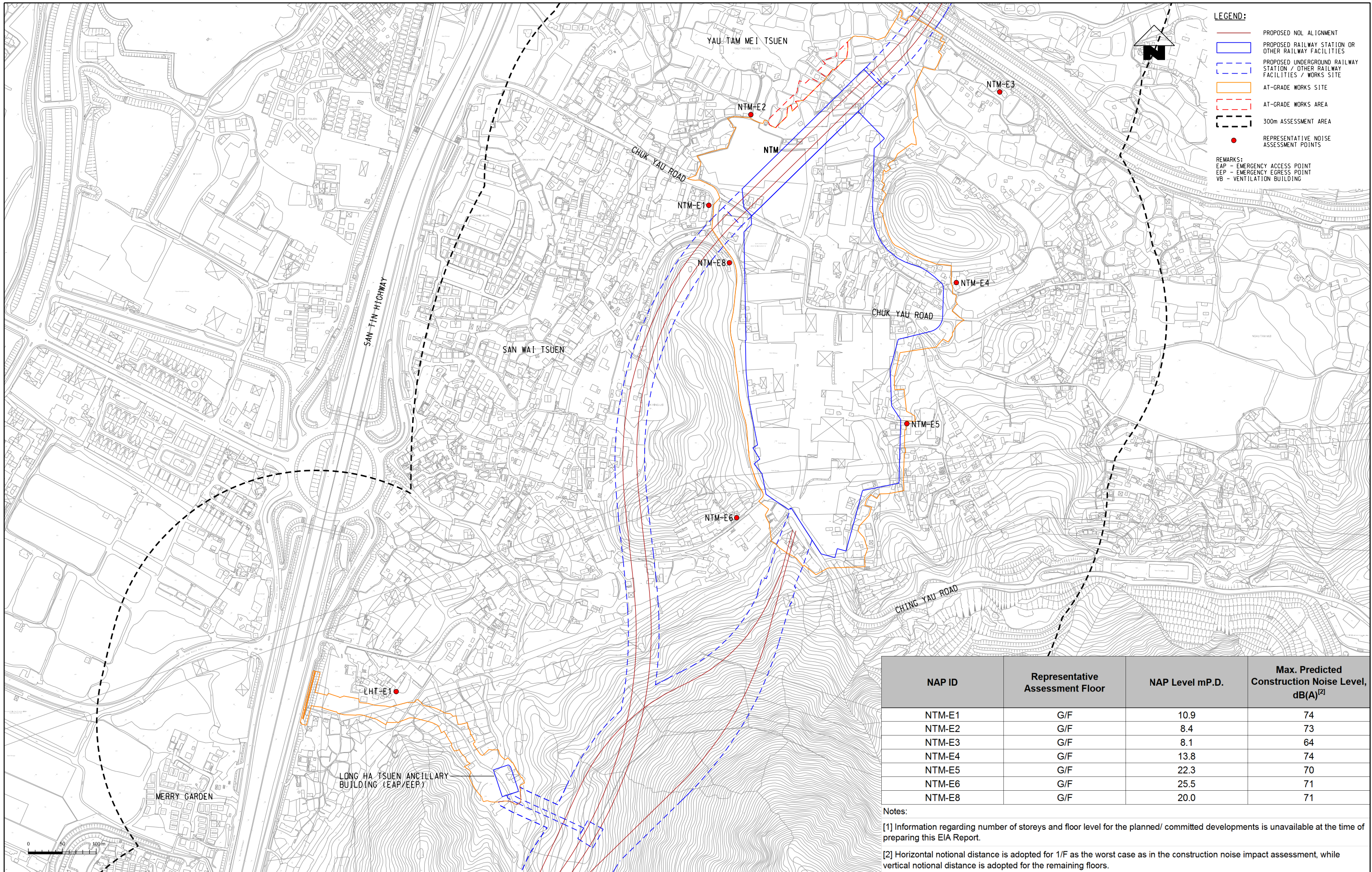




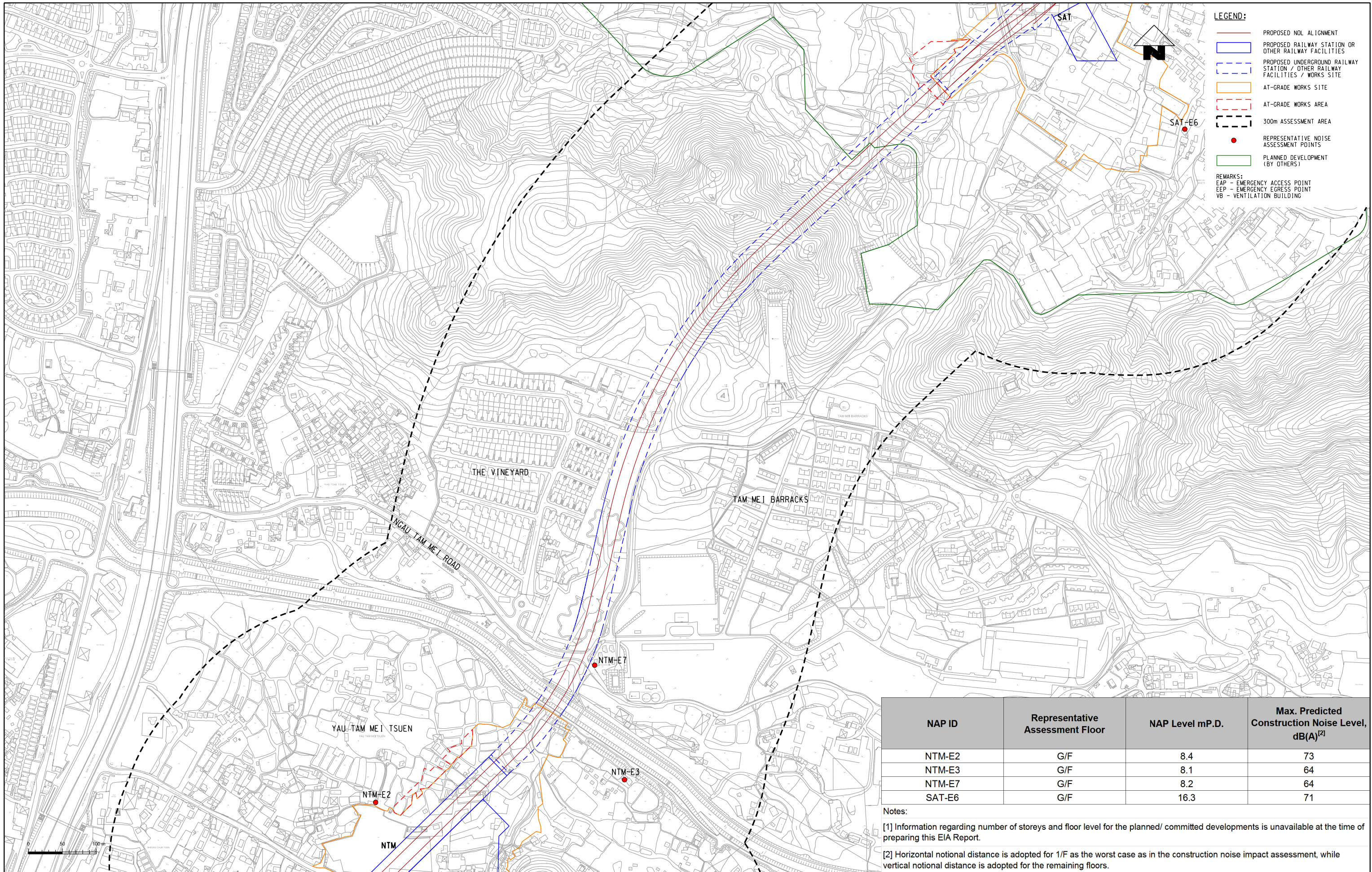
| NAP ID | Representative Assessment Floor | NAP Level m.P.D. | Max. Predicted Construction Noise Level, dB(A) <sup>[2]</sup> |
|--------|---------------------------------|------------------|---|
| AUT-E1 | G/F                             | 4.8              | 69  |
| AUT-E2 | G/F                             | 6.7              | 75  |
| AUT-P1 | 1/F                             | „[1]             | 53  |
| AUT-P2 | 1/F                             | „[1]             | 57  |
| AUT-P3 | 1/F                             | „[1]             | 51  |
| POW-E1 | G/F                             | 13.0             | 72  |
| POW-E2 | G/F                             | 12.6             | 71  |
| POW-E3 | G/F                             | 15.9             | 75  |
| POW-E4 | G/F                             | 15.3             | 70  |

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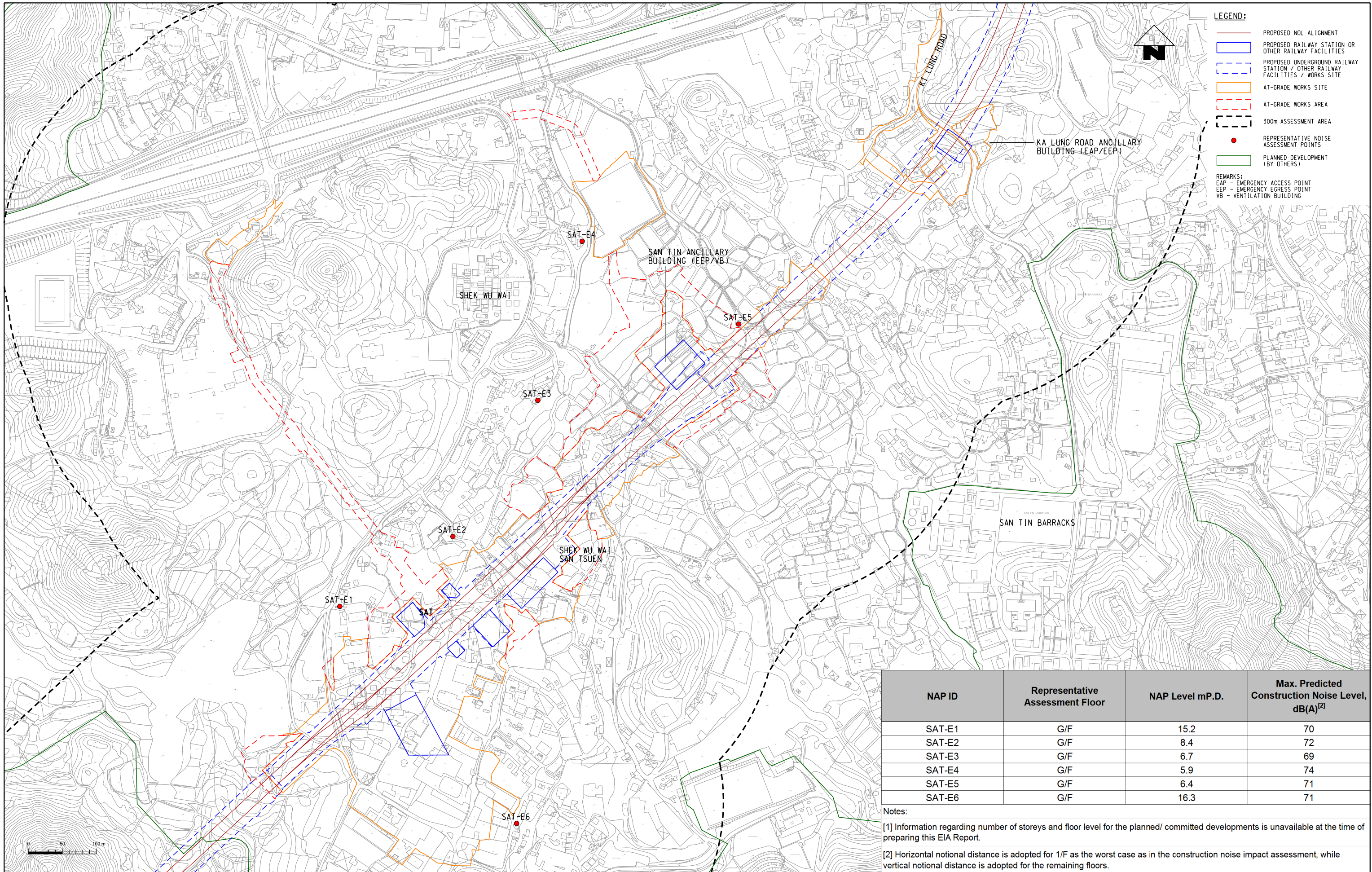








APPENDIX 4.10h



**LEGEND:**

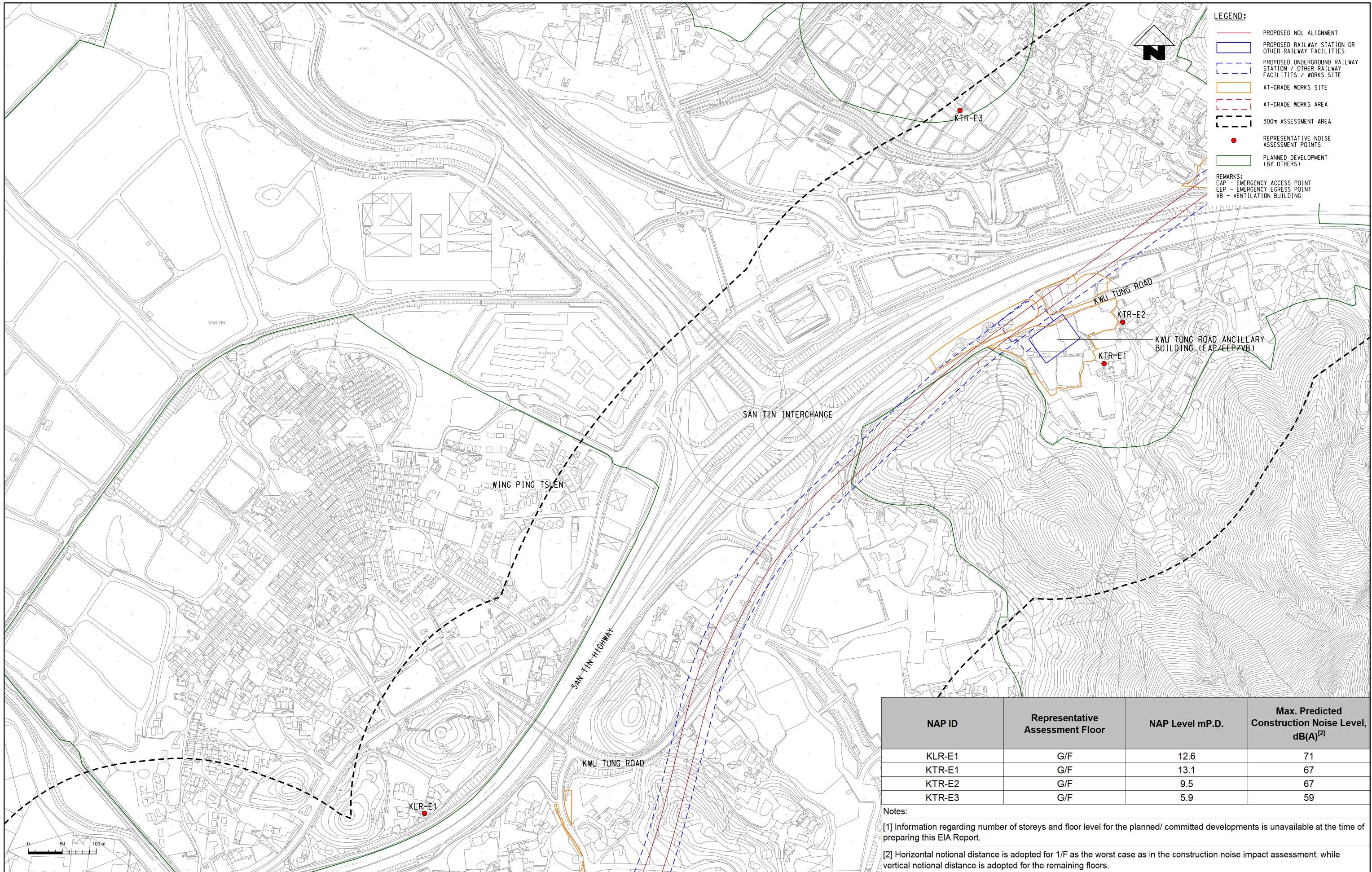
- PROPOSED NOL ALIGNMENT
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**REMARKS:**  
 EAP - EMERGENCY ACCESS POINT  
 EEP - EMERGENCY EGRESS POINT  
 VB - VENTILATION BUILDING

| NAP ID | Representative Assessment Floor | NAP Level mP.D. | Max. Predicted Construction Noise Level, dB(A) <sup>[2]</sup> |
|--------|---------------------------------|-----------------|---|
| SAT-E1 | G/F                             | 15.2            | 70  |
| SAT-E2 | G/F                             | 8.4             | 72  |
| SAT-E3 | G/F                             | 6.7             | 69  |
| SAT-E4 | G/F                             | 5.9             | 74  |
| SAT-E5 | G/F                             | 6.4             | 71  |
| SAT-E6 | G/F                             | 16.3            | 71  |

Notes:  
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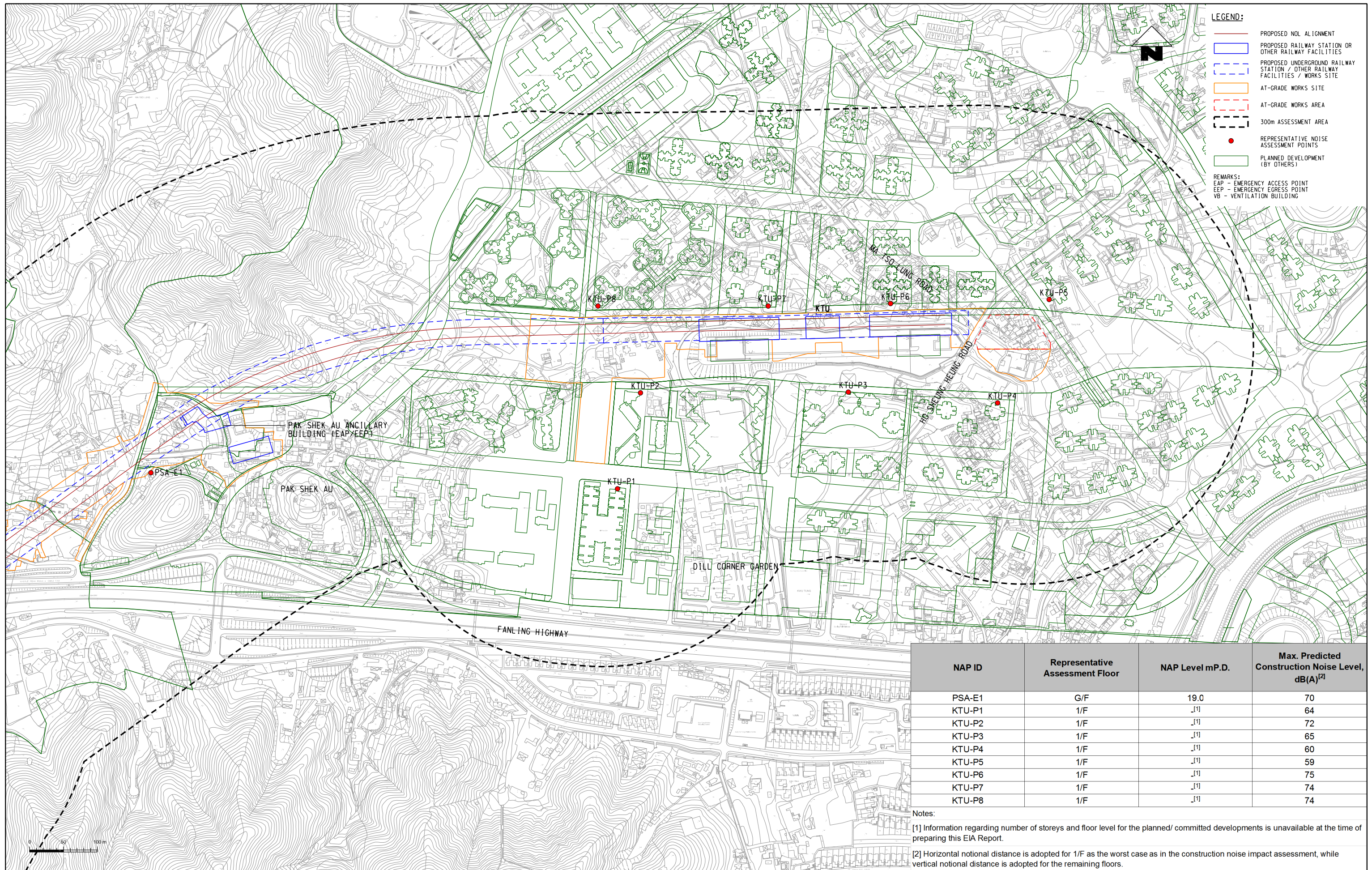
| NAP ID | Representative Assessment Floor | NAP Level mP.D. | Max. Predicted Construction Noise Level, dB(A) <sup>[2]</sup> |
|--------|---------------------------------|-----------------|---|
| KLR-E1 | G/F                             | 12.6            | 71  |
| KTR-E1 | G/F                             | 13.1            | 67  |
| KTR-E2 | G/F                             | 9.5             | 67  |
| KTR-E3 | G/F                             | 5.9             | 59  |

Notes:

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- LEGEND:**
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  - PROPOSED UNDERGROUND RAILWAY STATION / OTHER RAILWAY FACILITIES / WORKS SITE
  - AT-GRADE WORKS SITE
  - AT-GRADE WORKS AREA
  - 300m ASSESSMENT AREA
  - REPRESENTATIVE NOISE ASSESSMENT POINTS
  - PLANNED DEVELOPMENT (BY OTHERS)
- REMARKS:**  
 EAP - EMERGENCY ACCESS POINT  
 EEP - EMERGENCY EGRESS POINT  
 VB - VENTILATION BUILDING

| NAP ID | Representative Assessment Floor | NAP Level m.P.D. | Max. Predicted Construction Noise Level, dB(A) <sup>[2]</sup> |
|--------|---------------------------------|------------------|---|
| PSA-E1 | G/F                             | 19.0             | 70  |
| KTU-P1 | 1/F                             | „[1]             | 64  |
| KTU-P2 | 1/F                             | „[1]             | 72  |
| KTU-P3 | 1/F                             | „[1]             | 65  |
| KTU-P4 | 1/F                             | „[1]             | 60  |
| KTU-P5 | 1/F                             | „[1]             | 59  |
| KTU-P6 | 1/F                             | „[1]             | 75  |
| KTU-P7 | 1/F                             | „[1]             | 74  |
| KTU-P8 | 1/F                             | „[1]             | 74  |

Notes:  
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APPENDIX 4.10k

