Development of Kwu Tung North and Fanling North New Development Areas, Phase 1 – Design and Construction

Fanling Bypass Eastern Section
EP-473/2013/A

Traffic Noise Mitigation Plan
(Version A)

July 2024

[BLANK]

MOTT MACDONALD

AECOM
8F, Tower 2, Grand Central Plaza
138 Shatin Rural Committee Road
Shatin, N.T. Hong Kong

Attention: Mr. Chris Ho

Your Reference

Our Reference
EC/TC/df/414202/L0238

3/F Manulife Place
348 Kwun Tong Road
Kowloon
Hong Kong

T +852 2828 5757
F +852 2827 1823
mottmac.hk

Agreement No. CE 33/2019 (EP)
Independent Environmental Checker for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas – Investigation

Environmental Permit No. EP-473/2013/A: Traffic Noise Mitigation Plan (Version A) (Condition 2.9)

17 July 2024

BY EMAIL

Dear Sir,

Reference is made to AECOM's submission of the Traffic Noise Mitigation Plan (Version A) (EP Condition 2.9) in accordance with the Environmental Permit (No. 473/2013/A) certified by the ET Leader on 15 July 2024.

We would like to inform you that we have no adverse comment on the captioned submission. Therefore we write to verify the captioned submission in accordance with the requirement stipulated in Condition 1.9 and 2.9 of EP-473/2013/A.

Should you have any queries, please contact the undersigned at 2828 5967.

Yours faithfully,
For and on behalf of the
Mott MacDonald Hong Kong Limited



Ir Thomas Chan
Independent Environmental Checker
T +852 2828 5967
Thomas.Chan@mottmac.com

c.c.

CEDD	Mr. Ryan Chau	hlchau@cedd.gov.hk
Wellab Ltd.	Dr. Priscilla Choy/	priscilla.choy@wellab.com.hk
	Ms. Ivy Tam	ivy.tam@wellab.com.hk

[BLANK]

WELLAB 匯力
consulting . testing . research

Our Ref: WMA20002/AECOM/mm240715

AECOM

8/F Grand Central Plaza Tower 2
138 Shatin Rural Committee Road
Shatin, Hong Kong

By E-Mail
15th July 2024

Attn.: Mr. Chris Ho

Dear Mr. Ho,

Service Contract No. NDO 04/2019
Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

- **Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section (Shek Wu San Tsuen North to Lung Yeuk Tau)**

Environmental Permit No. EP-473/2013/A:
Traffic Noise Mitigation Plan (Version A)

I refer to the Traffic Noise Mitigation Plan (Version A) (EP Condition 2.9) submitted by AECOM via email dated 13th July 2024.

I am pleased to inform you that I have no further comment and I hereby agree to certify the above document in accordance with the Environmental Permit (No. EP-473/2013/A), Condition 1.9 and 2.9.

If you need any further information, please call our Mr. Marco Ma at 2151 2073 or me at 2151 2089.

Yours faithfully,
WELLAB Limited

Dr. Priscilla Choy
Environmental Team Leader

c.c. CEDD (Attn: Mr. Ryan Chau) By e-mail: hlchau@cedd.gov.hk
IEC - Mott MacDonald Hong Kong Ltd
(Attn.: Mr. Thomas Chan) By e-mail: Thomas.Chan@mottmac.com

[BLANK]

土木工程拓展署
North Development Office
Civil Engineering and Development Department

Agreement No. CE 13/2014 (CE)

Development of Kwu Tung North and Fanling North New Development Areas, Phase 1 – Design and Construction

Traffic Noise Mitigation Plan (Version A)
EP-473/2013/A

July 2024

Reviewed:  9 July 2024
Angela Tong

Approved for Issue:  9 July 2024
Francis Leong

AECOM ASIA COMPANY LIMITED

Disclaimer:

*This **Report** is prepared for **Civil Engineering and Development Department (CEDD)** and is given for its sole benefit in relation to and pursuant to **Agreement No. CE 13/2014 (CE) Development of Kwu Tung North and Fanling North New Development Areas, Phase 1 – Design and Construction** and may not be disclosed to, quoted to or relied upon by any person (other than **CEDD**) without our prior written consent. No person other than **CEDD** into whose possession a copy of this report comes may rely on this report without our express written consent and **CEDD** may not rely on it for any purpose other than as described above.*

[BLANK]

TABLE OF CONTENTS

1 INTRODUCTION 1

1.1 Background 1

1.2 Interface with Fanling Highway 1

1.3 Planned Noise Barriers at Road L3 and Ma Sik Road within FLN NDA 2

1.4 Objective of this Traffic Noise Mitigation Plan 2

2 REVIEW ON TRAFFIC NOISE MITIGATION MEASURES 6

2.1 Introduction 6

2.2 Environmental Legislation, Standards and Criteria 6

2.3 Representative Noise Sensitive Receivers 6

2.4 Traffic Noise Impact Assessment Methodology 6

2.5 Traffic Noise Impact Assessment 6

2.6 Evaluation of Residual Impact 12

2.7 Implementation Programme of Mitigation Measures 12

2.8 Conclusion 13

List of Tables

Table 1.1 Proposed Update to Traffic Noise Mitigation Measures of TH/FH Project Between Wo Hop Shek Interchange and Nam Wa Po
Table 1.2 Tentative Programme of Removal, Reinstatement and Construction of Noise Barriers
Table 2.1 Predicted Road Traffic Noise Levels under Mitigated Scenario at FLN in Year 2044 (At Residential Premises and Schools)
Table 2.2 Road Traffic Noise Sensitivity Analysis for Potential Locations of Social Welfare Facilities under Mitigated Scenario at FLN in Year 2044
Table 2.3 Road Traffic Noise Sensitivity Analysis for Potential Locations of Kindergartens under Mitigated Scenario at FLN in Year 2044
Table 2.4 Summary of Protected and Benefitted Land Uses

List of Figures

Figure 1.1 Location of the Project (DP10)
Figures 2.1a to 2.1d Location of Representative Noise Sensitive Receivers and Assessment Points (Residential and School)
Figures 2.1e to 2.1g Location of Representative Noise Sensitive Receivers and Assessment Points (Social Welfare)
Figure 2.1h Location of Representative Noise Sensitive Receivers and Assessment Points (Kindergarten)
Figures 2.2a to 2.2e Latest Proposal of Traffic Noise Mitigation Measures
Figures 2.3a to 2.3b Locations of Proposed Social Welfare Facilities with Residential Premises and

Home for the Elderly
Figure 2.4 Locations of Proposed Kindergarten

List of Appendices

Appendix 1.1A Traffic Noise Mitigation Measures Proposed in P&E Review
Appendix 1.1B Traffic Noise Mitigation Measures Proposed in the approved Plan (September 2020)
Appendix 1.2 Proposed Update on Noise Barriers between Wo Hop Shek Interchange and Nam Wa Po under Widening of Tolo Highway and Fanling Highway
Appendix 1.3 Omission of Planned Noise Barriers within FLN NDA
Appendix 2.1 Details of Road Traffic Forecast at Year 2044
Appendix 2.2 Computer Plot of Road Scheme
Appendix 2.3 Details of Road Traffic Noise Impacts on NSRs (Unmitigated Scenario - FLN) at Year 2044
Appendix 2.4 Details of Road Traffic Noise Impacts on NSRs (Mitigated Scenario - FLN) at Year 2044
Appendix 2.5 Excerpt of P&E Review - Details of Noise Mitigation Measures at Fanling Area 48
Appendix 2.6 Details Breakdown of Protected and Benefitted Land Uses
Appendix 2.7 Summary of Road Traffic Noise Mitigation Proposal for the Project

1 INTRODUCTION

1.1 Background

1.1.1 The North East New Territories (NENT) New Development Areas (NDAs) Planning and Engineering (P&E) Study, after consideration and incorporation of comments from the three-stage public engagement programme, planned to proceed with development in the Kwu Tung North (KTN) and Fanling North (FLN). The NENT NDAs P&E Study is a designated project under Item 1 Schedule 3 of the Environmental Impact Assessment Ordinance (EIAO), and covers a total of thirteen individual designated projects which require environmental permits under Schedule 2 of EIAO.

1.1.2 An EIA Report was prepared to assess the environmental impacts associated with the proposed construction and operational works of the NENT NDAs. The EIA Report (Register No. AEIAR-175/2013) was approved by the Director of Environmental Protection (DEP) on 18 October 2013 with approval conditions stipulated in the Director's letter (Reference: (45) in EP2/N7/S3/57 Pt.3). There are twelve Environmental Permits (EPs) and one Further Environmental Permit (FEP) issued by DEP on 21 November 2013 and 3 January 2014 to cover all the identified designated projects in NENT NDAs. Construction and operation of Fanling Bypass Eastern Section (hereinafter known as "the Project" or "FLBP-ES"), which is defined as Designated Project 10 (DP10) in the EIA Report, is governed by EP-473/2013. Location of the Project is shown in **Figure 1.1**.

1.1.3 During the planning and engineering (P&E) review under Agreement No. CE 13/2014 – Development of Kwu Tung North and Fanling North New Development Areas, Phase 1 – Design and Construction (D&C), changes including (i) road alignment of the Project; and (ii) Year 2044 traffic forecast (i.e. the assessment year in the EIA Report) with accommodation of additional population (about 194,586 in total) in the NDAs; and (iii) the building block layout in individual sites of the NDAs, were proposed according to the engineering design and information obtained during the P&E review, and comments from the public. Based on these proposed changes, the traffic noise mitigation measures were reviewed and updated under the P&E review (**Appendix 1.1A** refers). Variation of environmental permit (VEP) for the Project was subsequently applied for the proposed changes and the latest Environmental Permit (EP No: EP-473/2013/A) was issued by DEP on 27 January 2017.

1.1.4 Pursuant to EP Condition 2.9, the Permit Holder, Civil Engineering and Development Department (CEDD), shall no later than one month before the commencement of construction of the Project, submit four hard copies and two electronic copies of Traffic Noise Mitigation Plan (the Plan) to the DEP for approval. If there is any change proposed to the traffic noise mitigation measures in the approved Plan, the Permit Holder shall, no later than one month before the implementation of any such change, submit to the Director for approval four hard copies and two electronic copies of an update to the Plan (the Updated Plan). The Plan or any Updated Plan shall demonstrate that the traffic noise performance requirements set out in the EIA Report (Register No.: AEIAR-175/2013) will not be exceeded with the mitigation measures in place.

1.1.5 A Plan was submitted in September 2020 and approved by DEP in October 2020 to address the interface issue between the Project and the Widening of Tolo Highway (TH) / Fanling Highway (FH) between Island House Interchange and Fanling (hereinafter as "TH/FH Project"). As stated in Section 1.2.1 of the approved Plan (Septmber 2020), a revised Plan with details of temporary measures under this Project, together with the administrative arrangement (e.g. change of responsible parties), shall be prepared and submitted under this Project for approval by DEP.

1.1.6 This revised Plan has been prepared according to the latest construction arrangement in Wo Hop Shek area and the proposed omission of noise barriers in FLN NDA.

1.2 Interface with Fanling Highway

1.2.1 Fanling Bypass Eastern Section, i.e. the Project, is a primary distributor with about 4km road alignment from FLN NDA to Nam Wa Po. A section of the road alignment of the Project and its associated noise mitigation measures would affect the existing road kerb and noise

mitigation measures of a section of Fanling Highway between Wo Hop Shek Interchange and Nam Wa Po. Upon the commencement of construction of the Project, some existing noise barriers along Fanling Highway between Wo Hop Shek Interchange and Nam Wa Po, which is governed by EP-324/2008/E for the "TH/FH Project", are required to be removed for roads connection between FLBP-ES and Fanling Highway. With the potential concern on the traffic noise impact at the noise sensitive receivers (NSRs) during the construction phase of the Project, further study was conducted after the approval of the Plan (September 2020) in order to minimise the impact on the existing noise mitigation measures under TH/FH Project as far as practicable.

1.2.2 The latest study findings revealed that the removal and replacement of NB71 (4m high vertical barrier), NB72 (6m high vertical barrier) and NB73 (6m high vertical barrier) under TH/FH Project by FLN-NB112 to FLN-NB-114 as proposed in the approved Plan (September 2020) (**Appendix 1.1B** refers) under EP-473/2013/A are no longer required, and proper construction arrangement has also been optimised to minimise the interim period and the number of affected NSRs (e.g. with land resumption completed at Wo Hop Shek San Tsuen and land resumption at Area 48 site being conducted) as well as to develop the interim measures (i.e. temporary movable noise barrier).

1.2.3 Utilities diversion and temporary traffic arrangements (TTA) at Tai Wo Service Road West as well as the removal of existing hard shoulder of Fanling Highway should be carried out prior to the construction of noise barriers FLN-NB29 (5+3m cantilever noise barrier) and FLN-NB30 (5+3m cantilever noise barrier) next to the affected V6 (6m high vertical noise barrier) and V7 (7m high vertical noise barrier). The Project Team will closely monitor the utilities diversion progress and apply appropriate TTAs to minimise the period of the interim stage. With due consideration of potential safety issues to drivers and site workers, the height of temporary movable noise barrier should be maintained minimal, and thus, a 2m-high above road level temporary removable (Silent-up) noise barrier will be erected next to the affected sections of V6 and V7 upon their removal. Liaison with nearby villagers will be carried out during the interim stage. Given that the minimized interim period and provision of interim noise mitigation measures, no adverse traffic noise impact on the concerned NSRs would be anticipated during the interim period after the removal of affected noise barriers. Besides, the affected sections of existing noise barriers will be later replaced by the proposed barriers under this Project (i.e. FLN-NB29, FLN-NB30 and FLN-NB77) to mitigate the road traffic noise impact during the ultimate scenario. Details of the tentative programme of removal, reinstatement and construction of noise barriers as well as the proposed interim measures are provided in **Table 1.2**.

1.3 Planned Noise Barriers at Road L3 and Ma Sik Road within FLN NDA

1.3.1 For better planning on both road alignment and development of NDA to minimise substantial structures of at-source noise mitigation measures (NMMs) on a practical and reasonable basis, a balanced approach would be adopted to provide NMMs at both at-source and at-receiver end. Taking such initiative, there are four proposed noise barriers, i.e. FLN-NB48, FLN-NB51, FLN-NB52 and FLN-NB53, will be removed with the adoption of at-receiver end NMMs (e.g. acoustic windows and acoustic balconies)[1], which could provide at least 4dB(A) reduction, as agreed by relevant parties, i.e. Housing Department (HD) and Lands Department (LandsD). Locations of the planned noise barriers to be removed are presented in **Appendix 1.3**.

1.4 Objective of this Traffic Noise Mitigation Plan

1.4.1 This revised Plan presents the overall NMMs under the Project including the update of NMMs at Road L3 and Ma Sik Road within FLN NDA, the latest NMMs at the concerned locations with interfacing issues, discusses the construction arrangement and the interim measures to be conducted under this Project. Details of the barriers affected by interfacing issues are

[1] As discussed in the Planning, Environmental and Agricultural Working Group Meeting No. 6 held on 29 March 2023, the findings of noise study indicated that the noise barriers including FLN-NB48, FLN-NB51, FLN-NB52 and FLN-NB53 could be removed with the adoption of at-receiver end NMMs, which provide up to 4dB(A) noise reduction, at the planned housing sites as agreed by relevant parties (e.g. HD and LandsD).

provided in **Table 1.1**, while the relevant construction arrangement and the associated interim measures as detailed in **Section 1.2** are summarized in **Table 1.2**. With the implementation of the proposed construction arrangement and the associated interim measures during the interim period, as well as the proposed at-source and at-receiver end NMMs upon operation of the Project, no adverse traffic noise impacts at the concerned NSRs adjacent to the affected noise barriers would be anticipated.

1.4.2 This Updated Traffic Noise Mitigation Plan (the Plan) has also demonstrated that the traffic noise performance requirements set out in the EIA Report (Register No.: AEIAR-175/2013) for the Project will not be exceeded with the mitigation measures in place.

Table 1.1 Proposed Update to Traffic Noise Mitigation Measures of TH/FH Project Between Wo Hop Shek Interchange and Nam Wa Po

TH/FH Project [1] (EP-324/2008/E) (Project Proponent – Highways Department (HyD))					FLBP-ES Project (EP-473/2013/A) – The Plan [1] (Project Proponent – CEDD)		
Noise Mitigation Measures (NMMs) of Concern	**Height [2] and Original Approx. Length**	**Relevant Figures in EP**	**Proposed Update**	**Replaced by Respective Appendix in this NMP**	**NMMs to replace Concerned NMMs under TH/FH Project (ID)**	**Height [2] and Approx. Length**	**Relevant Figure in this Plan**
V6 [5] along Bus-Bus Interchange (BBI)	• 6m high VB • Approx. 130m	Figure 4e & 4e(i)	Removal of the 6m high VB (approx. 130m in length)	Appendix 1.2	NA [4]	NA	NA
V7 [5] along Fanling Highway	• 7m high VB • Approx. 163m	Figure 4e	Removal of the 7m high VB (approx. 163m in length) [3]	Appendix 1.2	FLN-NB30	• 5m+3m high CB • Approx. 272m	Figure 2.2e
					FLN-NB77	• 5m high VB • Approx. 112m	
V6 [5] along Fanling Highway	• 6m high VB • Approx. 348m	Figure 4e	• Removal of two sections [3] (approx. 44m and approx. 79m in length) of the 6m high VB • Temporary removal and reinstatement of the 6m high VB (approx. 32m in length) after completion of slip road construction of FLBP-ES	Appendix 1.2	FLN-NB29	• 5m+3m high CB • Approx. 247m	Figure 2.2e

Notes:
(1) The FLN-NB112 to FLN-NB-114 as proposed in the approved Plan (September 2020) under EP-473/2013/A are no longer required as the existing 6m high vertical barrier (V6) along Fanling Highway under TH/FH Project will be retained.
(2) VB – Vertical Barrier; CB – Cantilever Barrier.
(3) These vertical barriers will be replaced by the mitigation measures under FLBP-ES Project.
(4) Not applicable. BBI will be relocated by CEDD under FLBP-ES Project.
(5) V6 = 6m high vertical barrier; V7 = 7m high vertical barrier.

Table 1.2 Tentative Programme of Removal, Reinstatement and Construction of Noise Barriers

TH/FH Project (EP-324/2008/E)		FLBP-ES Project (EP-473/2013/A)		Concerned Existing NSRs*	Corresponding NAPs* under TH/FH Project (Appendix 1.2 refers)	Corresponding NAPs* under FLBP-ES Project (Figure 2.1 refers)	Noise Implication due to Removal, Reinstatement and Construction of Noise Barriers
Construction Activities	**Tentative Programme**	**Construction Activities**	**Tentative Programme**				
Removal of V6(2) along Bus-Bus Interchange (BBI)	Sep 2023, after relocation of BBI	N/A	N/A	Squatters and village houses at Tong Hang Tung Chuen.	SR1012 & SR1015	R TH5 & R4763	Not required as BBI has been relocated to the location shown in Figure 2.1d. Moreover, the predicted road traffic noise levels at the concerned existing NSRs at Tong Hang Tung Chuen, with the removal of V6(2) along BBI, would comply with the stipulated noise criterion of 70 dB(A) (**Appendix 2.3** refers), and thus no interim noise mitigation measures would be required.
Removal of V7(2) along Fanling Highway	Sep 2023 – Dec 2024	• Construction of FLN-NB30 • Construction of FLN-NB77	• Mar 2024 – Apr 2025 • Jan 2024 – Jun 2024	Squatters and village houses at Wo Hop Shek Village near Tai Wo Services Road West.	SR9 & WHS1	R WHS1, R4783 – R4785	Squatters and village houses at Wo Hop Shek Village with the assigned NAPs were removed by CEDD for the slope works (near FLN-NB77) under FLBP-ES Project. In addition, land resumption for the housing development at Area 48 is ongoing during the preparation of this Plan and will be completed in Mar 2024. Thus, there will be no existing NSRs in the land of Area 48 after Mar 2024, no noise implication would be anticipated due to the removal of affected noise barriers along Fanling Highway. Hence, no interim noise mitigation measures would be required.
Removal of a section (approx. 79m) of V6(2) along Fanling Highway	Sep 2023 – Jun 2024						
Removal of a section (approx. 44m) of V6(2) along Fanling Highway	Sep 2023 – Jan 2024	• Construction of FLN-NB29 • Reinstatement of V6(2) (approx. 32m)	• Jan 2024 – Jul 2024 • Mar 2025	Village houses at Wo Hop Shek San Tsuen near Wo Hing Road.	SR8	N4744 – N4745, R4749	The removal and temporary removal of affected noise barriers would commence in Sep 2023, while the construction of FLN-NB29 and reinstatement of the section of approx. 32m of V6 would commence in Jan 2024 and Mar 2025 respectively. As a result, there would be an interim period of approx. 5 months during which the noise barriers at Fanling Highway near Wo Hop Shek San Tsuen would be partially removed. Upon removal of the affected V6(2) sections, temporary noise barriers of 2m high above road level (1) will be erected along the realigned Tai Wo Services Road West. Besides, the nearest NSRs to Fanling Highway (i.e. village houses with 1-3 storeys at Wo Hop Shek San Tsuen) are located at more than 100m away from Fanling Highway, and there are also some existing non-noise sensitive uses structures with 1-2 storeys high located between the concerned village houses and Fanling Highway. Considering that the concerned existing NSRs are low-rise buildings with 1-3 storeys and positioned further behind the existing non-noise sensitive uses structures from Fanling Highway, the provision of 2m high temporary noise barriers would be effective to alleviate the traffic noise impacts during the interim period. In view of the separation from the Fanling Highway, screening effects by the existing non-noise sensitive uses structures, and the provision of 2m high temporary noise barriers, adverse traffic noise impact on the concerned NSRs would not be anticipated during the interim period after the removal of affected noise barriers (**Appendix 2.3** refers).
Temporary removal of a section (approx. 32m) of V6(2) along Fanling Highway	Sep 2023 – Jan 2024						

Notes:
* NSRs – Noise Sensitive Receivers; NAPs – Noise Assessment Points.
(1) With due consideration of potential safety issues to drivers and site workers, the height of temporary movable noise barriers should be maintained minimal.
(2) V6 = 6m high vertical barrier; V7 = 7m high vertical barrier.

2 REVIEW ON TRAFFIC NOISE MITIGATION MEASURES

2.1 Introduction

2.1.1 As mentioned in **Section 1.1.3**, a set of traffic noise mitigation measures was developed under P&E review (**Appendix 1.1A** refers). A review on the traffic noise mitigation measures has been conducted and the potential cumulative traffic noise impact within 300m study area of the Project has been evaluated and discussed in the following sections.

2.2 Environmental Legislation, Standards and Criteria

2.2.1 The criteria for assessing road traffic noise are given in the *Technical Memorandum on Environmental Impact Assessment Process* (EIAO-TM). The road traffic noise criterion is 70dB(A) for all domestic premises, temporary housing accommodation, hostels, convalescent homes and homes for the aged; and 65dB(A) for educational institutions, places of worship and courts of law. For hospitals and medical clinics, a more stringent criterion of 55dB(A) is stipulated. It should be noted that all these criteria only apply to NSRs that rely on openable windows for ventilation.

2.3 Representative Noise Sensitive Receivers

2.3.1 The representative Noise Sensitive Receivers (NSRs) follow same assessment points as adopted in the approved Plan (September 2020). All the proposed assessment points shown in **Figures 2.1a – 2.1g**.

2.4 Traffic Noise Impact Assessment Methodology

2.4.1 Same road traffic noise assessment methodology as presented in Section 4.6.2.1 of the EIA Report has been adopted in this noise impact assessment.

2.4.2 As the commencement year of all the proposed road networks for KTN and FLN NDA remains 2029, the year with maximum traffic flow within a 15-year period upon commencement of operation of the road works remains 2044 (i.e. same as that stated in the EIA Report and P&E ERR). For the purpose of this review, traffic noise impact at the representative NSRs in Year 2044 has been assessed to evaluate the traffic noise compliance and the required mitigation measures for ultimate scenario. Traffic forecast for the Year 2044 (**Appendix 2.1** refers) as adopted in the P&E ERR has been used for this traffic noise impact assessment. For without project scenario, the predicted overall noise levels at the design year (i.e. Year 2044) are extracted from the EIA Report except those at the existing NSR "Green Code" are updated according to minor update of its environmental settings and assumptions of assessment points.

2.5 Traffic Noise Impact Assessment

2.5.1 A computer plot of the road scheme and a plan showing the location of existing roads, new roads and other roads is presented in **Appendix 2.2**. **Appendix 2.3** presents the unmitigated road traffic noise impacts on NSRs.

2.5.2 Based on the best available information during the preparation of this Plan, the latest recommended mitigation proposal as presented in **Figures 2.2a** to **2.2e** has been reviewed. The mitigated noise levels of the representative NSRs within 300m of the Project are summarised in **Table 2.1**, with detailed road traffic noise levels presented in **Appendix 2.4**.

Table 2.1 Predicted Road Traffic Noise Levels under Mitigated Scenario at FLN in Year 2044 (At Residential Premises and Schools)

NSR	Location	Assessment Point	Use [(1)]	$L_{10(1hr)}$ dB(A)		Compliance [Y/N]	At-source Mitigation Measures Required [Y/N] [(2)]
				Criterion [(3)]	Predicted Noise Levels		
FN-1	Wing Ning Tsuen	R4001-4003	R	70	56 - 61	Y	N
FN-2	Wing Ning Wai	R4021-4029	R	70	56 - 69	Y	N
FN-3	San Uk	R4041-4047	R	70	65 - 73	N	N [(7)]

NSR	Location	Assessment Point	Use [1]	$L_{10(1hr)}$ dB(A)		Compliance [Y/N]	At-source Mitigation Measures Required [Y/N] [2]
				Criterion [3]	Predicted Noise Levels		
	Tsuen						
FN-4	The Sisters of the Precious Blood Children Village	R4063-4064	I/C	70	54 - 63	Y	N
FN-5	Kan Lung Tsuen	R4081-4083	R	70	60 - 62	Y	N
FN-6	Siu Hang Tsuen	R4101-4103	R	70	55 - 56	Y	N
FN-7	Siu Hang San Tsuen	R4121-4124	R	70	54 - 60	Y	N
FN-8	Scattered Village Houses North of Proposed Potential Ecopark	R4141-4143, R4151-4154, N4155-4156	R, W	65-70	57 - 66	Y	N
FN-31	Belair Monte and Green Code	R4421-4427, R4431-4433, N4432-4433	R	70	51 - 77	N	N [7]
FS-1	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	R4541-4544, R4551	R	70	57 - 70	Y	N
FS-4	Village Houses between Wing Ning Wai and Ma Wat Estate	R4561-4564	R	70	57 - 62	Y	N
FS-5	Ma Wat Tsuen	R4581-4584	R	70	50 - 58	Y	N
FS-6	Scattered Village Houses near Ma Wat Tsuen	R4601-4604	R	70	56 - 60	Y	N
FS-9	Tsung Him School, Tsung Kyam Kindergarten and Tsung Kyam Church, Shung Him Tong Tsuen	R4625-4628	E	65	58 - 60	Y	N
FS-10	Shung Him Tong Tsuen	R4641-4643, R4651-4653, N4644-4648	R	70	61 - 70	Y	N
FS-11	Scattered Village Houses in Tong Hang	N4663-4664, R4661-4662	R, W	65-70	64 - 70	Y	N
FS-13	Tong Hang Tung Chuen	R4704	R	70	68 - 69	Y	N
FS-14	Dawning Views	R4721-4722	R	70	64 - 77	N	N [7]
FS-15	Wo Hop Shek San Tsuen,	R4741-4743, R4747-4749	R	70	56 - 75	N	N [7]

NSR	Location	Assessment Point	Use [1]	$L_{10(1hr)}$ dB(A)		Compliance [Y/N]	At-source Mitigation Measures Required [Y/N] [2]
				Criterion [3]	Predicted Noise Levels		
	Regalia Villa						
FS-16	Scattered Village Houses along MTRC and Fanling Highway	R4763	R	70	69 - 70	Y	N
FS-17[5] [6]	Scattered Village Houses East of Wo Hop Shek San Tsuen / Planned NSR at Area 48	R4783-4785, N4781-4823, N4901-4904, N4911-4915	R, E	65-70	36 - 73	N	N [5]
C2-7	Planned NSR at FLN NDA	R5291-5293	E	65	58 - 65	Y	N
C2-9	Planned NSR at FLN NDA	R5295-5298	E	65	56 - 70	N	N [4]
D2-2	Planned NSR at FLN NDA	N5300-5307	HOS	70	63 – 71	N	N [8]
D2-4	Planned NSR at FLN NDA	R5321-5326	R	70	61 – 70	Y	N
D2-6	Planned NSR at FLN NDA	R5341-5343	PRH	70	60 – 70	Y	N
D2-9	Planned NSR at FLN NDA	N5361a-d, N5362-5376	PRH	70	44 – 70	Y	N
D2-12	Planned NSR at FLN NDA	N5381-5394	R	70	60 – 70	Y	N
D3-1a	Planned NSR at FLN NDA	R5401-5404	R	70	66 – 71	N	N [8]
D3-1b	Planned NSR at FLN NDA	N5400, N5406, N5409	HOS	70	61 – 67	Y	N
D3-3	Planned NSR at FLN NDA	R5421-5424	R	70	58 – 67	Y	N
D3-4	Planned NSR at FLN NDA	R5441-5444	R	70	56 – 68	Y	N
D3-7	Planned NSR at FLN NDA	R5481	R	70	64 – 66	Y	N
D3-12	Planned NSR at FLN NDA	R5541	E	65	62 – 64	Y	N
FN-53	Pui Ling School	R5836	E	65	75	N	N [7]
FN-75	Grand Regentville	R6321-6322	R	70	71 – 75	N	N [7]
R TH1	Scattered Village Houses of Kau Lung Han San Wai	R TH1	R	70	59 – 62	Y	N
R TH2	Scattered Village	R TH2	R	70	67	Y	N

NSR	Location	Assessment Point	Use (1)	$L_{10(1hr)}$ dB(A)		Compliance [Y/N]	At-source Mitigation Measures Required [Y/N] (2)
				Criterion (3)	Predicted Noise Levels		
	Houses of Kau Lung Han San Wai						
R TH4	Scattered Village Houses of Kau Lung Han Lo Wai	R TH4	R	70	66 – 67	Y	N
R TH5	Scattered Village Houses of Kau Lung Han Lo Wai	R TH5	R	70	69 – 70	Y	N
R TH6	Scattered Village Houses of Kau Lung Han Lo Wai	R TH6	R	70	68 – 69	Y	N
R KT1	Scattered Village Houses of Kau Lung Han San Wai	R KT1	R	70	67	Y	N
R KT2	Scattered Village Houses of Kau Lung Han San Wai	R KT2	R	70	69	Y	N
R KT3	Scattered Village Houses of Kau Lung Han San Wai	R KT3	R	70	69	Y	N
R KLHSW	Scattered Village Houses of Kau Lung Han San Wai	R KLHSW	R	70	67	Y	N
R SR7N	Scattered Village Houses along Fanling Highway	R SR7N	R	70	70	Y	N
R SR77	Scattered Village Houses in Yuen Leng	R SR77	R	70	67 – 69	Y	N
R FLNBP1	Cyber Domaine	R FLNBP1	R	70	69 – 70	Y	N
R WHS1(6)	Scattered Village Houses East of Wo Hop Shek San Tsuen	R WHS1	R	70	67 – 68	Y	N
R NWP1	Scattered Village Houses North of Nam Wa Po	R NWP1	R	70	65 – 68	Y	N
R SR8	Scattered Village	N4744-4745	R	70	57 – 73	N	N (7)

NSR	Location	Assessment Point	Use (1)	$L_{10(1hr)}$ dB(A)		Compliance [Y/N]	At-source Mitigation Measures Required [Y/N] (2)
				Criterion (3)	Predicted Noise Levels		
	Houses West of Wo Hop Shek San Tsuen						
R SR12	Scattered Village Houses North of Nam Wa Po	R SR12	R	70	62 – 69	Y	N

Notes:

(1) R – Residential; E – Educational; IC – Institution and Community; PRH – Public Rental Housing; HOS – Home Ownership Scheme; W – Place of Worship.

(2) For existing and planned NSRs outside and within the non-development area of NDA, direct mitigation measures are required when "With Project Overall Noise Level exceeds Noise Criteria" AND, either "With Project – Without Project Overall Noise Level ≥ 1.0 dB(A)" or "New Roads exceeds Noise Criteria" or "New Roads Contribution ≥ 1.0 dB(A)".

(3) Relevant environmental standards / criteria: Noise standards for road traffic noise as stipulated in Annex 5 of the EIAO-TM.

(4) Similar to the assessment findings of the EIA Report, noise exceedances are predicted at planned educational institution NSRs in FLN C2-9. Noise exceedances still predicted even with the extension of LNRS on the local roads and junction. To achieve compliance with the respective noise criteria, a large extent of semi-enclosure would be required even over the junction which is lengthy. In addition, to avoid the sight line issue over the junction, the span length would be even greater according to Transport Planning and Design Manual. This increase in span length would require sizeable structural elements which causes visual impact and safety problem. Therefore, the use of semi-enclosure is not recommended and same recommendation of at-receiver noise mitigation measures (i.e. provision of acoustic insulation with air-conditioning to these planned receivers (East and south facades between 4/F to 8/F)) in the EIA Report has been followed.

(5) According to the information provided by Housing Department (HD) (**Appendix 2.5** refers), the mitigation measures including i) acoustic windows at the assessment points N4804-4805, N4811-4813; ii) architectural fins at the façade of assessment points N4781, N4790, N4796, N4799, N4802-4803, N4806, N4808, N4814-4815, N4818-4819; and iii) acoustic balcony at the assessment points N4791-4795, N4797-4798, N4800-4801, N4807, N4809-4810, N4816-4817, N4823 will be adopted as the further noise mitigation measures in the public housing site at Fanling Area 48 (FLN Site FS-17) to mitigate the residual noise impacts. With the implementation of at-receiver noise mitigation measures, the traffic noise levels at NSRs would comply with the noise limit of 70dB(A). As such, no further direct mitigation measures are required. Detailed noise mitigation measures to be adopted at Fanling Area 48 are shown in **Appendix 2.5**. HD also committed to provide at-receiver mitigation measures to mitigate the residual noise impact should HD propose further changes to the development layout / parameters in the future.

(6) The tentative population intake year for the planned housing development at Fanling Area 48 is 2027, assessment points (N4781- N4823) have been identified according to the best available information. As there is no tentative construction programme of the planned school development at this site, both existing NSRs (assessment points R4783-4785 and R WHS1) and planned NSRs (N4903 to N4904) have been assessed.

(7) Non-compliance with the respective noise criterion is found among the existing NSRs. However, the contribution from Project Roads is insignificant (all the direct mitigation measures on Project roads have been exhausted with insignificant contribution (i.e. less than 1.0 dB(A)) from Project roads to the overall noise level. No further direct mitigation measure is therefore required to mitigate the noise impacts caused by existing roads.

(8) As discussed in **Section 1.3.1**, HD committed to adopt at-receiver end NMMs (e.g. acoustic windows / balconies) with up to 4dB(A) noise reduction at the planned housing sites. With the adoption of at-receiver end NMMs, the road traffic noise levels at the NSRs would comply with the stipulated noise criteria and thus at-source NMMs would not be required.

2.5.3 It should be noted that the exact locations for the proposed social welfare facilities and kindergartens are not yet confirmed. Hence, a sensitivity test on the possible locations has been conducted. Similar to the findings of the EIA Report, the predicted road traffic noise levels at some of the NSRs would exceed the relevant noise criterion, and thus non-sensitive use at that particular façade or acoustic insulation should be adopted. In addition, during the design of the social welfare facilities and kindergartens, noise sensitive uses should be located to avoid exceedance as far as practicable. **Figures 2.3a** to **2.3b** and **Figure 2.4** show the façades of potential locations for the proposed social welfare facilities and kindergartens at FLN respectively which can rely on openable window for ventilation without exceeding the traffic noise criteria.

Table 2.2 Road Traffic Noise Sensitivity Analysis for Potential Locations of Social Welfare Facilities under Mitigated Scenario at FLN in Year 2044

NSR	Assessment Point	Use (1)	$L_{10(1hr)}$ dB(A)		Compliance [Y/N]	Mitigation Measures Required [Y/N]
			Criterion (2)	Predicted Noise Levels		
C2-6	R7201-7204	R	70	63 - 70	Y	N
D2-9	N7492-7495	IC	70	52 - 66	Y	N

Notes:
(1) R – Residential; IC – Institution and Community
(2) Relevant environmental standards / criteria: Noise standards for road traffic noise as stipulated in Annex 5 of the EIAO-TM.

Table 2.3 Road Traffic Noise Sensitivity Analysis for Potential Locations of Kindergartens under Mitigated Scenario at FLN in Year 2044

NSR	Assessment Point	Use (1)	$L_{10(1hr)}$ dB(A)		Compliance [Y/N]	Mitigation Measures Required [Y/N]
			Criterion (2)	Predicted Noise Levels		
D2-9	N7951-7979	E	65	39 - 72	N	Y (3)
D3-1c	R7751-7752, R7757-7758	E	65	45 - 59	Y	N
D3-4	R7901-7904, R7906-7911	E	65	59 - 72	N	Y (3)

Notes:
(1) E – Educational
(2) Relevant environmental standards / criteria: Noise standards for road traffic noise as stipulated in Annex 5 of the EIAO-TM.
(3) Non-sensitive use at the particular façade that would exceed the traffic noise limit or acoustic insulation should be adopted during the design stage. **Figure 2.4** shows the façades of potential locations for the proposed kindergartens at FLN which can rely on openable window for ventilation without exceeding the traffic noise criteria. With the implementation of proper design, there would be no exceedance anticipated at these NSRs.

2.5.4 With the implementation of proposed direct NMMs, including the provision of noise barriers/enclosures, LNRS and at-receiver noise mitigation measures (e.g. acoustic window / balconies), the mitigated traffic noise levels at all planned NSRs will comply with the relevant noise criteria except the planned school in FLN Site C2-9, where traffic noise levels from 4/F to 8/F exceed the noise criterion, which is similar to the finding of the EIA Report. Provision of acoustic insulation with air conditioning (east and south facades between 4/F to 8/F) has been recommended for this planned school according to the approved EIA Report.

2.5.5 To study the noise performance of the Project, traffic noise levels at the representative noise assessment points of residential premises, educational institutions and places of public worship have been reviewed. The numbers of dwellings, classrooms, places of public worship that would be benefited from and protected by the provision of recommended noise mitigation measures have been calculated with estimated results and details of calculation presented in **Table 2.4** and **Appendix 2.6** respectively.

Table 2.4 Summary of Protected and Benefitted Land Uses

NSE (1)	Total No. of NSE	Unmitigated Scenario	Mitigated Scenario		
		No. of Exposed NSE	No. of Exposed NSE	Protected NSE	Benefitted NSE
FLN – Existing NSE					
Dwellings	7222	3028	1303	1725	1708
Classrooms	114	90	18	72	72
FLN - Planned NSE					
Dwellings	10911	1735	0	1735	1671
Classroom (2)	104	88	30	58	88

Notes:
(1) NSE – Noise sensitive element
(2) As the school layouts showing classrooms are not available during the preparation of this report, a total of six classrooms has been assumed for each floor.

2.5.6 With the implementation of recommended direct mitigation measures including the provision of noise barriers, LNRS and at-receiver noise mitigation measures (e.g. acoustic window / balconies), no exceedance is predicted at the planned dwellings in FLN NDA. The noise mitigation measures required and the building layout assumed in this Plan will not affect the development potential of those concerned sites for residential premises. Same as EIA finding, traffic noise levels at 4/F to 8/F of the planned school at FLN Site C2-9 exceed the noise criterion. Exceedances are also predicted at about 18% of the existing NSRs in FLN but the exceedances are caused by existing roads. All the direct mitigation measures on Project roads have been exhausted with insignificant contribution (i.e. less than 1dB(A)) from Project roads to the overall noise level.

2.5.7 The eligibility of the affected premises for indirect technical remedies (ITR) has been reviewed according to the three criteria (i.e. “With Project Overall Noise Level exceeds Noise Criteria" AND, either "With Project - Without Project Overall Noise Level ≥ 1dB(A)" or "New Roads exceeds Noise Criteria" or "New Roads Contribution ≥ 1 dB(A)"). Since none of the receivers (**Table 2.1** to **Table 2.3** refer) has met all three criteria, no ITR is required.

2.6 Evaluation of Residual Impact

2.6.1 During the operational phase, the impact arising from the Project would be mitigated by implementing the proposed noise control measures such as barrier, enclosure and low noise road surfacing, and no residual noise impacts are anticipated at the NSRs except the planned school at FLN Site C2-9. Same as the recommendation provided in Section 4.9.2.1 of the EIA Report, it is required to provide at-receiver noise mitigation measures (e.g. acoustic insulation with air-conditioning) at east and south facades between 4/F to 8/F of the planned school at FLN Site C2-9 to further mitigate the residual noise impacts.

2.7 Implementation Programme of Mitigation Measures

2.7.1 In view of the extensive scale of development and substantial land area involved, the FLN NDA will be developed in two phases, i.e. advance and remaining phases. As such, the implementation programme of noise mitigation measures has been developed according to implementation programme of the FLN NDA. The recommended noise mitigation measures should be in placed before the occupation of corresponding areas in FLN NDA in order to protect the planned NSRs from adverse traffic noise impact. A summary of Road Traffic Noise Mitigation Proposal for the Project, together with the implementation programme, is presented in **Appendix 2.7**.

2.7.2 If there is any change proposed to the traffic noise mitigation measures in the approved Plan, the Permit Holder shall, no later than one month before the implementation of any such change, submit to the DEP for approval of an update to the Plan.

2.8 Conclusion

2.8.1 The traffic noise mitigation measures for the Project have been reviewed based on latest available information of the development layouts. Assessment results indicate that traffic noise performance requirements set out in the EIA report (Register No.: AEIAR-175/2013) will not be exceeded with the mitigation measures in place.

2.8.2 All mitigation measures recommended in this Plan will be fully implemented and properly maintained throughout the operational phase(s) of the Project. If there is any change proposed to the traffic noise mitigation measures in the approved Plan, the Permit Holder shall, no later than one month before the implementation of any such change, submit to the DEP for approval of an update to the Plan.

[BLANK]

FIGURES

[BLANK]

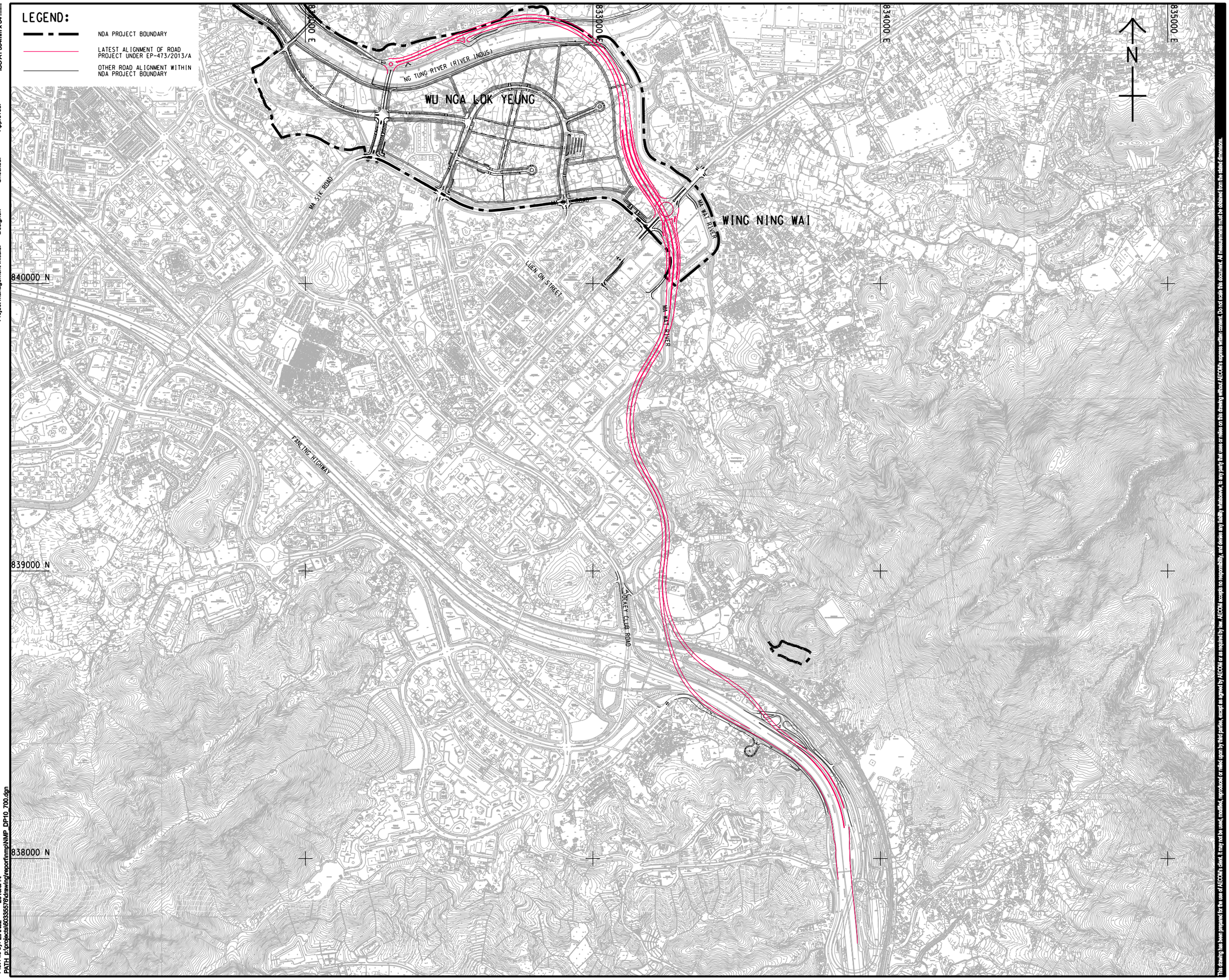
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:



Plot File by: LIANJ2 2016/6/14
PATH: p:\projects\60335576\drawing\report\nmp\NMP_DP10_700.dgn

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

CEDD 土木工程拓展署 Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

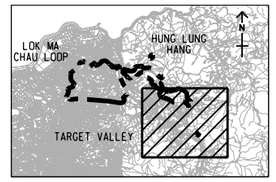
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對

STATUS
階段

SCALE 比例
A1 1 : 6000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 150000



PROJECT NO. 項目編號
60335576

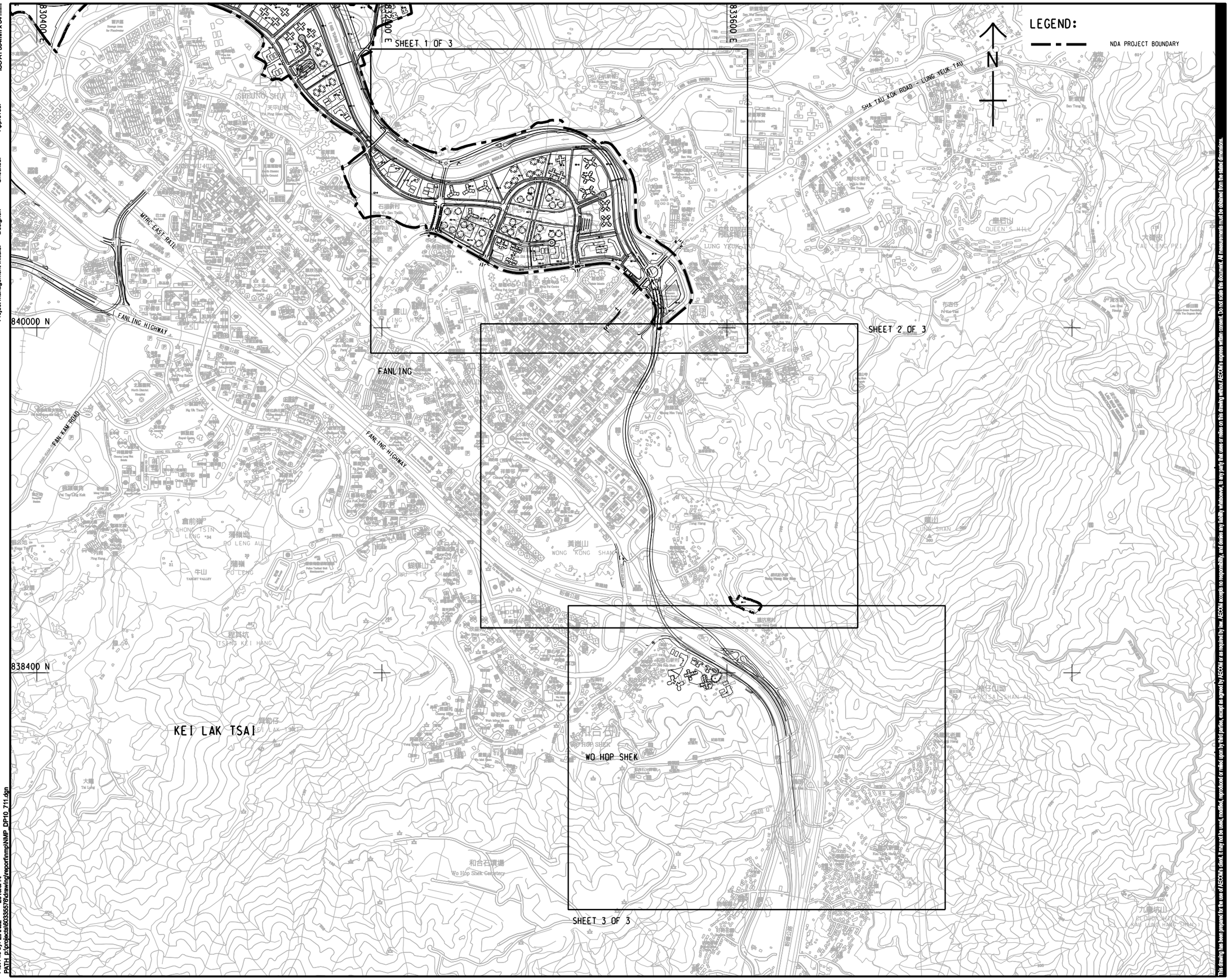
CONTRACT NO. 合約編號
CE 13/2014 (CE)

SHEET TITLE
圖紙名稱

LOCATION OF THE PROJECT (DP10)

SHEET NUMBER
圖紙編號

60335576/NMP/DP10/FIGURE 1.1



Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

Plot File by: LIANJ2 2019/5/14
PATH p:\projects\60335576\drawing\report\nmp\NMP_DP10_711.dgn

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
CEDD Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核表

STATUS
階段

SCALE
比例

A1 1 : 8000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

PROJECT NO.
項目編號

60335576

CONTRACT NO.
合約編號

CE 13/2014 (CE)

SHEET TITLE
圖紙名稱

LOCATION OF REPRESENTATIVE NSRs AND ASSESSMENT POINTS (RESIDENTIAL AND SCHOOL) KEY PLAN

SHEET NUMBER
圖紙編號

60335576/NMP/DP10/FIGURE 2.1a

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/NMP/DP10/FIGURE 2.1b TO FIGURE 2.1d.

LEGEND:

- NDA PROJECT BOUNDARY
- 300m STUDY AREA
- LATEST ALIGNMENT OF ROAD PROJECT UNDER EP-473/2013/A
- OTHER ROAD ALIGNMENT / FOOTPATH WITHIN OR OUTSIDE NDA PROJECT BOUNDARY
- ASSESSMENT POINTS ADOPTED IN EIA (ROAD TRAFFIC NOISE)
- UPDATED ASSESSMENT POINTS (ROAD TRAFFIC NOISE)

INSERT 'A'
SCALE 1:100

CUT LINE A-A
SEE DRAWING NO. 60335576/NMP/DP10/FIGURE 2.1c

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

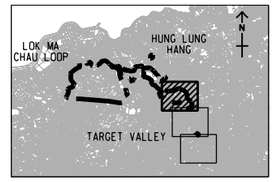
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核查

STATUS
階段

SCALE
比例
A1 1 : 2500

DIMENSION UNIT
尺寸單位
METRES

KEY PLAN
索引圖
A1 1 : 150000



PROJECT NO.
項目編號
60335576

CONTRACT NO.
合約編號
CE 13/2014 (CE)

SHEET TITLE
圖紙名稱

LOCATION OF REPRESENTATIVE NSRs AND ASSESSMENT POINTS (RESIDENTIAL AND SCHOOL)

SHEET 1 OF 3

SHEET NUMBER
圖紙編號

60335576/NMP/DP10/FIGURE 2.1b

Plot File by: LIANJ2 2019/5/14
PATH: p:\projects\60335576\drawing\report\nmp\NMP_DP10_712.dgn

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and disclaims any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

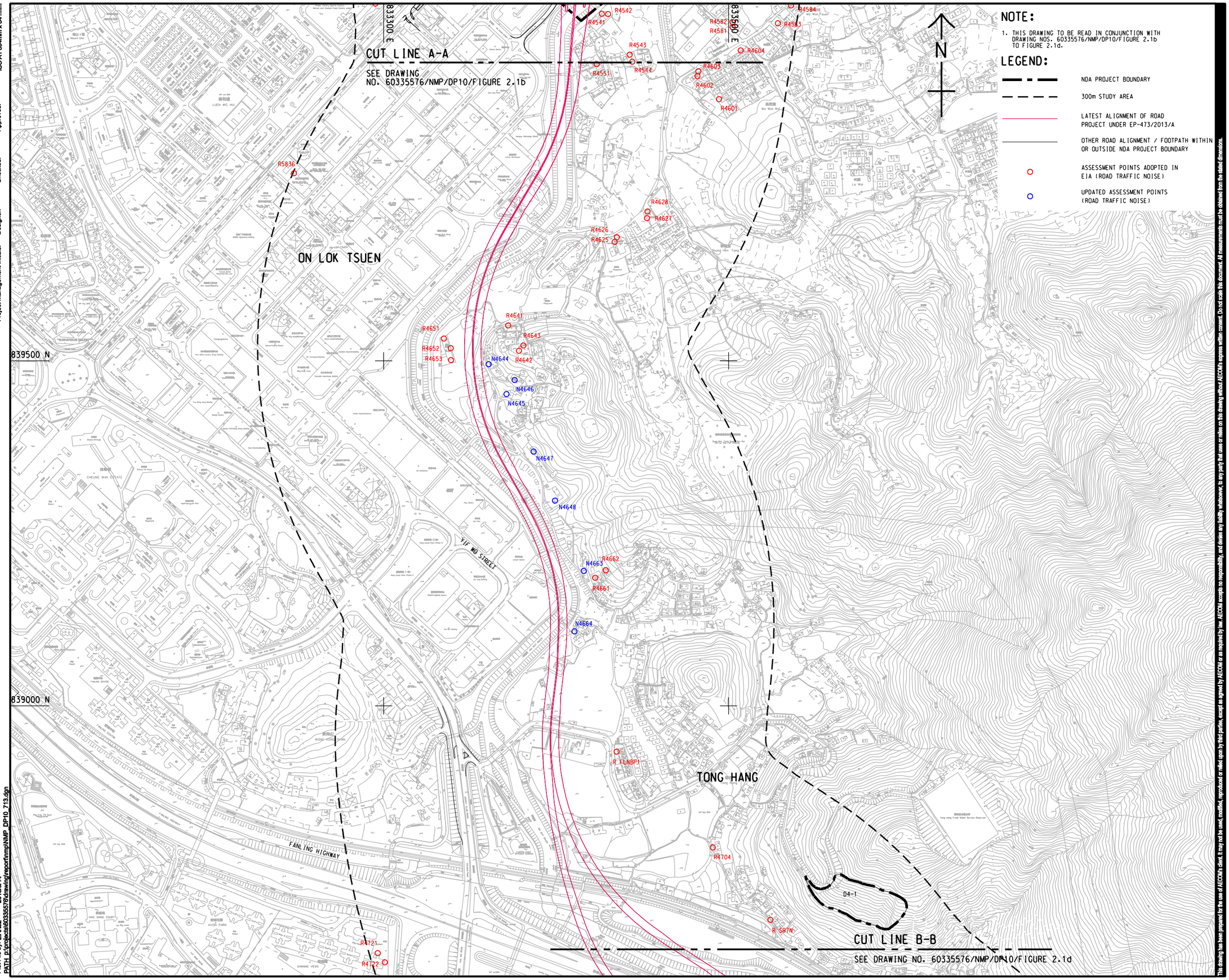
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:



This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimension.

Plot File by: LIANJ2 2019/5/14
PATH: p:\projects\60335576\drawing\report\nmp\NMP_DP10_713.dgn

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核查

STATUS
階段

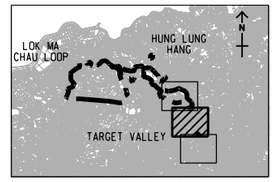
SCALE
比例

A1 1 : 2500

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖 A1 1 : 150000



PROJECT NO.
項目編號

60335576

CONTRACT NO.
合約編號

CE 13/2014 (CE)

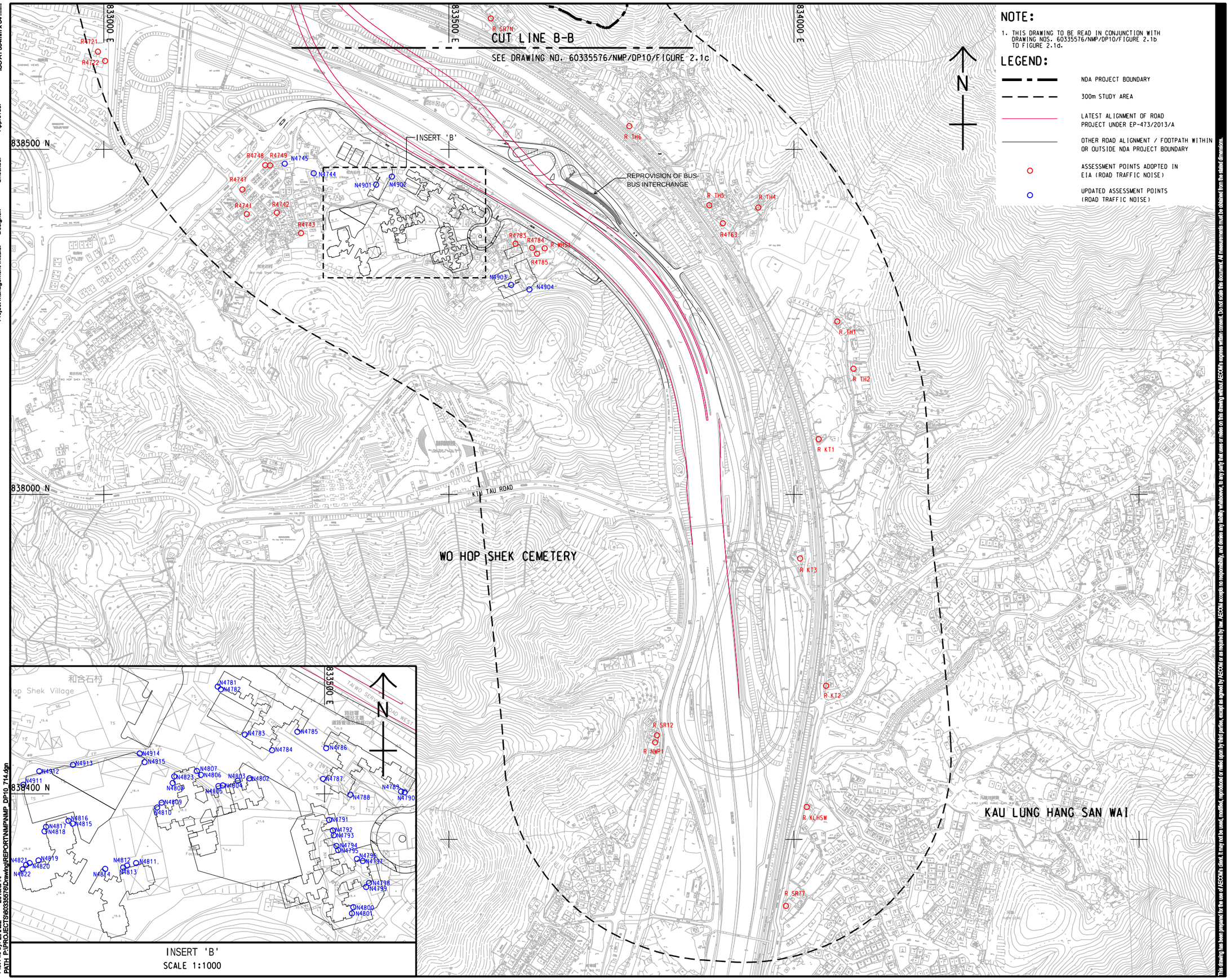
SHEET TITLE
圖紙名稱

LOCATION OF REPRESENTATIVE NSRs AND ASSESSMENT POINTS (RESIDENTIAL AND SCHOOL)

SHEET 2 OF 3

SHEET NUMBER
圖紙編號

60335576/NMP/DP10/FIGURE 2.1c



NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/NMP/DP10/FIGURE 2.1b TO FIGURE 2.1d.

LEGEND:

- NDA PROJECT BOUNDARY
- 300m STUDY AREA
- LATEST ALIGNMENT OF ROAD PROJECT UNDER EP-473/2013/A
- OTHER ROAD ALIGNMENT / FOOTPATH WITHIN OR OUTSIDE NDA PROJECT BOUNDARY
- ASSESSMENT POINTS ADOPTED IN EIA (ROAD TRAFFIC NOISE)
- UPDATED ASSESSMENT POINTS (ROAD TRAFFIC NOISE)

AECOM

PROJECT 項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT 業主

土木工程拓展署
CEDD Civil Engineering and Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

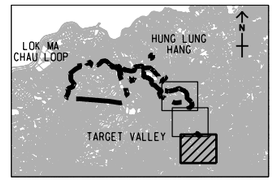
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核表

STATUS 階段

SCALE 比例: A1 1 : 2500

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖: A1 1 : 150000



PROJECT NO. 項目編號: 60335576

CONTRACT NO. 合約編號: CE 13/2014 (CE)

SHEET TITLE 圖紙名稱

LOCATION OF REPRESENTATIVE NSRs AND ASSESSMENT POINTS (RESIDENTIAL AND SCHOOL)

SHEET 3 OF 3

SHEET NUMBER 圖紙編號

60335576/NMP/DP10/FIGURE 2.1d

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

Plot File by: LIANJ2 2019/5/14
PATH P:\PROJECTS\60335576\Drawing\REPORT\NMP\NMP_DP10_714.dgn

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

LEGEND:

NDA PROJECT BOUNDARY

831000 E

832000 E

833000 E

842000 N

841000 N

840000 N

N

SHEUNG SHUI

NG TUNG RIVER

SHEET 1 OF 2

SHEET 2 OF 2

MTRC EAST RAIL

FANLING HIGHWAY

FAN KAM ROAD

SHA TAU KOK ROAD – LUNG YEUK TAU

FANLING

Plot File by: LIANJ2 2019/5/14
PATH: p:\proj\ea\60335576\drawing\report\nmp\NMP_DP10_715.dgn

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核查

STATUS
現狀

SCALE 比例
A1 1 : 5000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 150000

PROJECT NO. 項目編號
60335576

CONTRACT NO. 合約編號
CE 13/2014 (CE)

SHEET TITLE
圖紙名稱

LOCATION OF REPRESENTATIVE NSRs AND ASSESSMENT POINTS (SOCIAL WELFARE) KEY PLAN

SHEET NUMBER
圖紙編號

60335576/NMP/DP10/FIGURE 2.1e

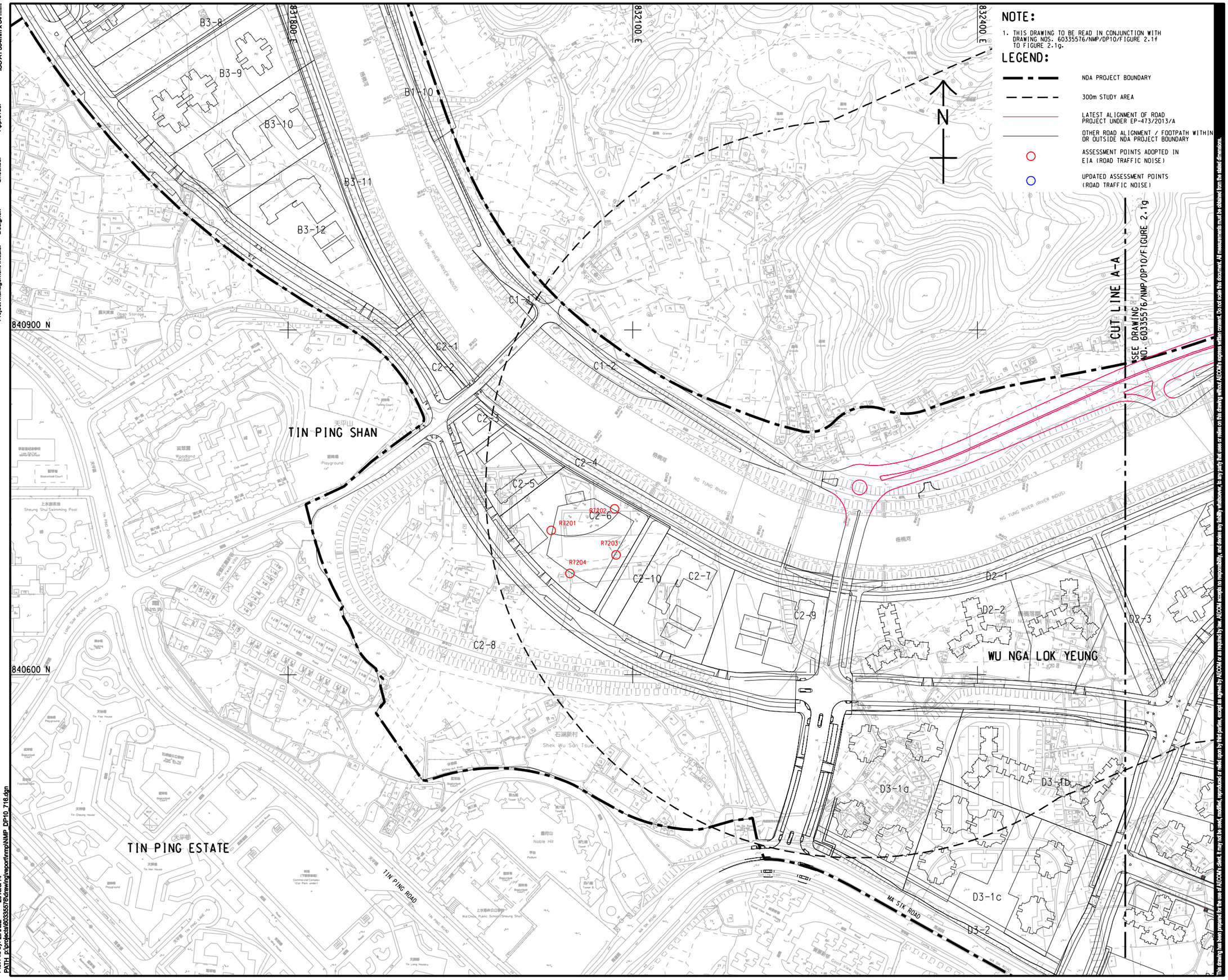
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:



Plot File by: LIANJ2 2019/5/14
PATH: P:\projects\60335576\drawing\report\nmp\NMP_DP10_716.dgn

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

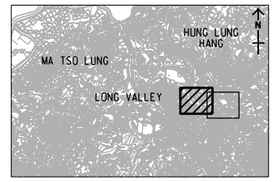
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對

STATUS
現狀

SCALE
比例
A1 1 : 1500

DIMENSION UNIT
尺寸單位
METRES

KEY PLAN
索引圖
A1 1 : 150000



PROJECT NO.
項目編號
60335576

CONTRACT NO.
合約編號
CE 13/2014 (CE)

SHEET TITLE
圖紙名稱

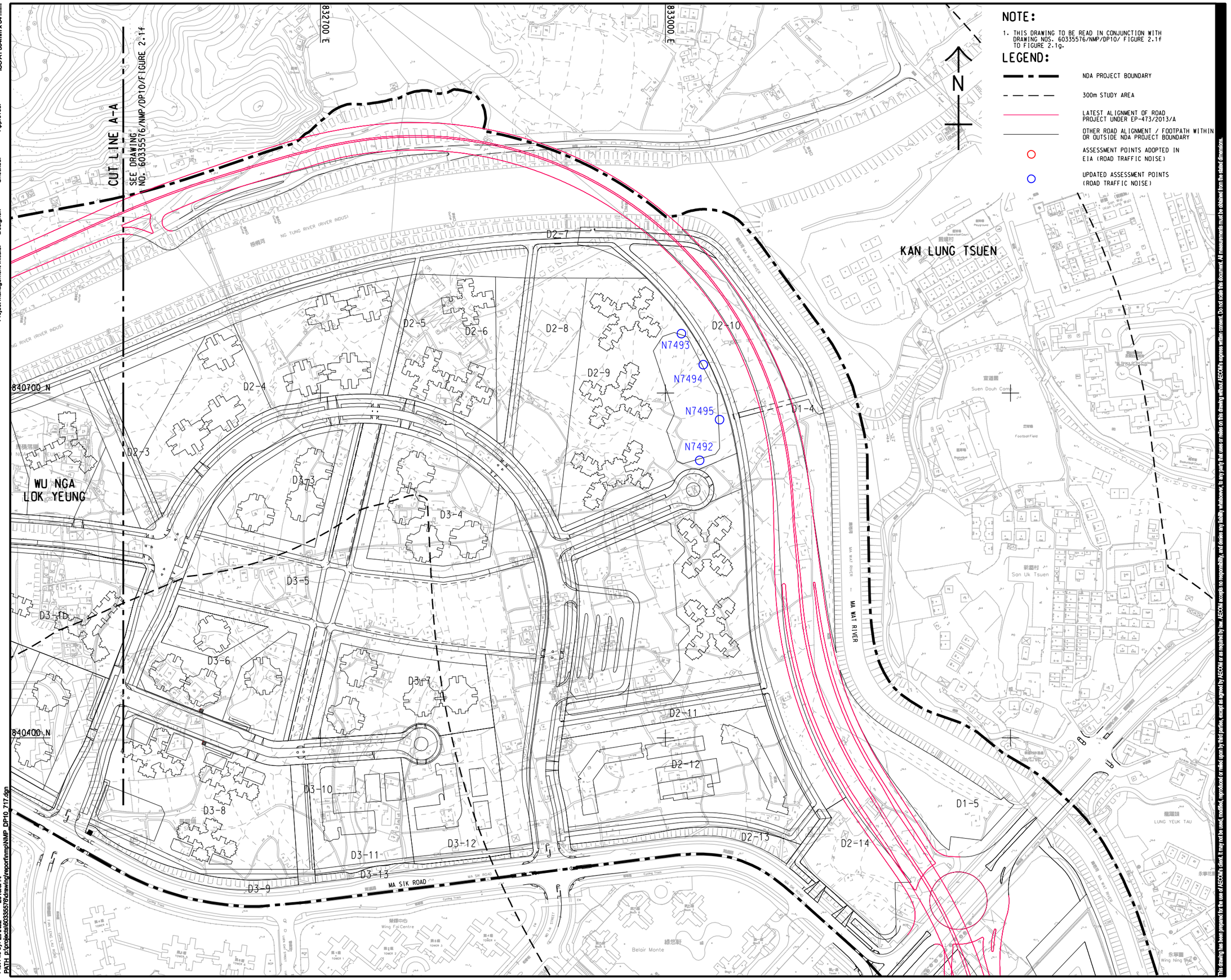
LOCATION OF REPRESENTATIVE NSRs AND ASSESSMENT POINTS (SOCIAL WELFARE)

SHEET 1 OF 2

SHEET NUMBER
圖紙編號

60335576/NMP/DP10/FIGURE 2.1f

This drawing has been prepared for the use of AECOM's client, it may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, for any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimension.



NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/NMP/DP10/ FIGURE 2.1f TO FIGURE 2.1g.

LEGEND:

- NDA PROJECT BOUNDARY
- 300m STUDY AREA
- LATEST ALIGNMENT OF ROAD PROJECT UNDER EP-473/2013/A
- OTHER ROAD ALIGNMENT / FOOTPATH WITHIN OR OUTSIDE NDA PROJECT BOUNDARY
- ASSESSMENT POINTS ADOPTED IN EIA (ROAD TRAFFIC NOISE)
- UPDATED ASSESSMENT POINTS (ROAD TRAFFIC NOISE)

AECOM

PROJECT 項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT 業主

土木工程拓展署
CEDD Civil Engineering and Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

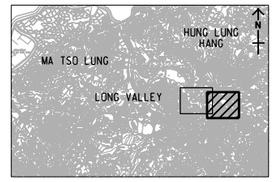
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核核

STATUS 階段

SCALE 比例: A1 1 : 1500

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖: A1 1 : 150000



PROJECT NO. 項目編號: 60335576

CONTRACT NO. 合約編號: CE 13/2014 (CE)

SHEET TITLE 圖紙名稱

LOCATION OF REPRESENTATIVE NSRs AND ASSESSMENT POINTS (SOCIAL WELFARE)

SHEET 2 OF 2

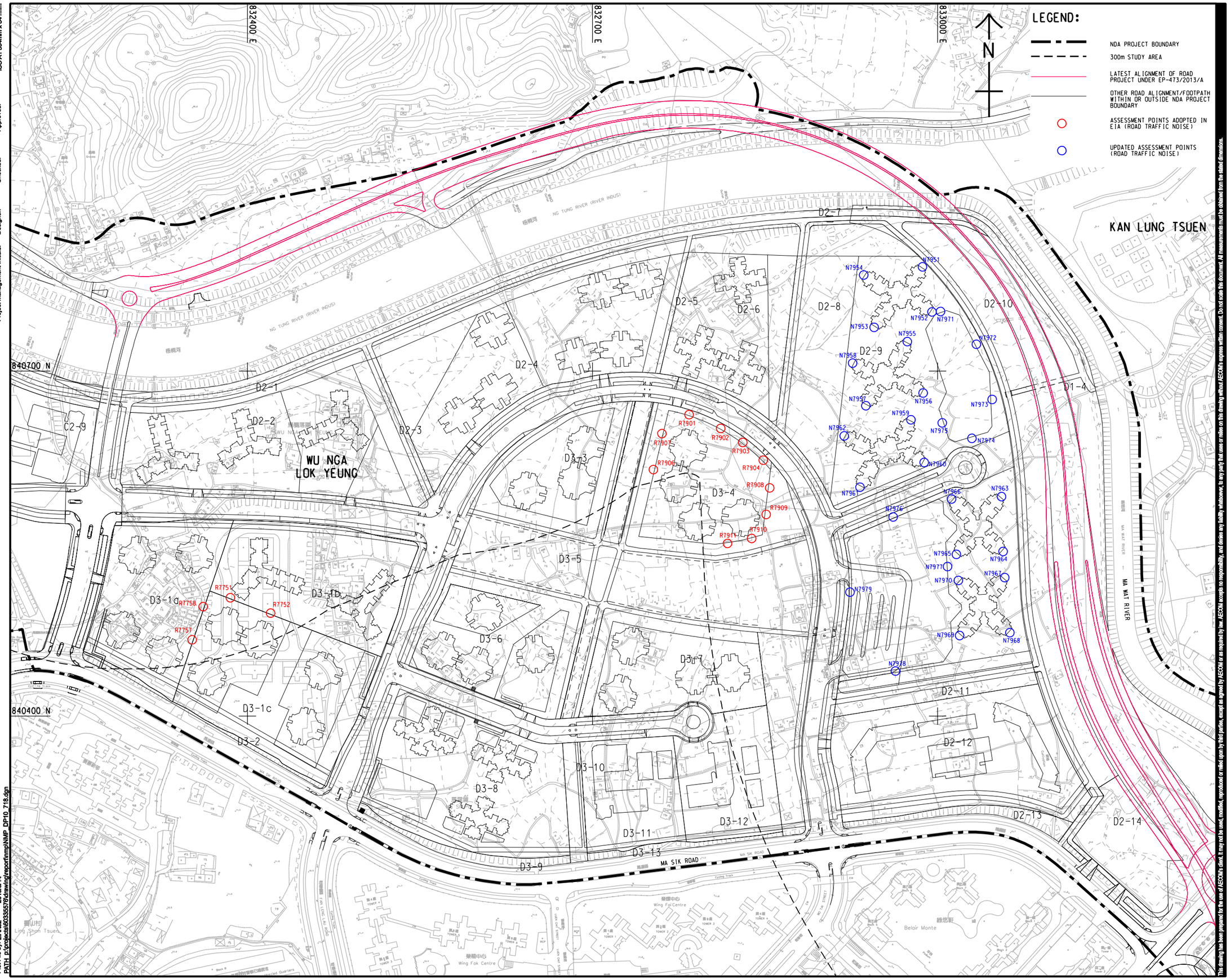
SHEET NUMBER 圖紙編號

60335576/NMP/DP10/FIGURE 2.1g

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

Plot File by: LIANJ2 2019/5/14
PATH p:\projects\60335576\drawing\report\nmp\NMP_DP10_717.dgn



AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
CEDD Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

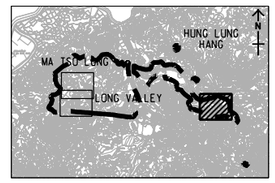
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 檢核

STATUS
階段

SCALE 比例
A1 1 : 1500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖
A1 1 : 150000



PROJECT NO. 項目編號
60335576

CONTRACT NO. 合約編號
CE 13/2014 (CE)

SHEET TITLE
圖紙名稱

LOCATION OF REPRESENTATIVE NSRs AND ASSESSMENT POINTS (KINDERGARTEN)

SHEET NUMBER
圖紙編號

60335576/NMP/DP10/FIGURE 2.1h

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
Plot File by: LIANJ2 2019/5/14
PATH p:\projects\60335576\drawing\report\nmp\NMP_DP10_718.dgn

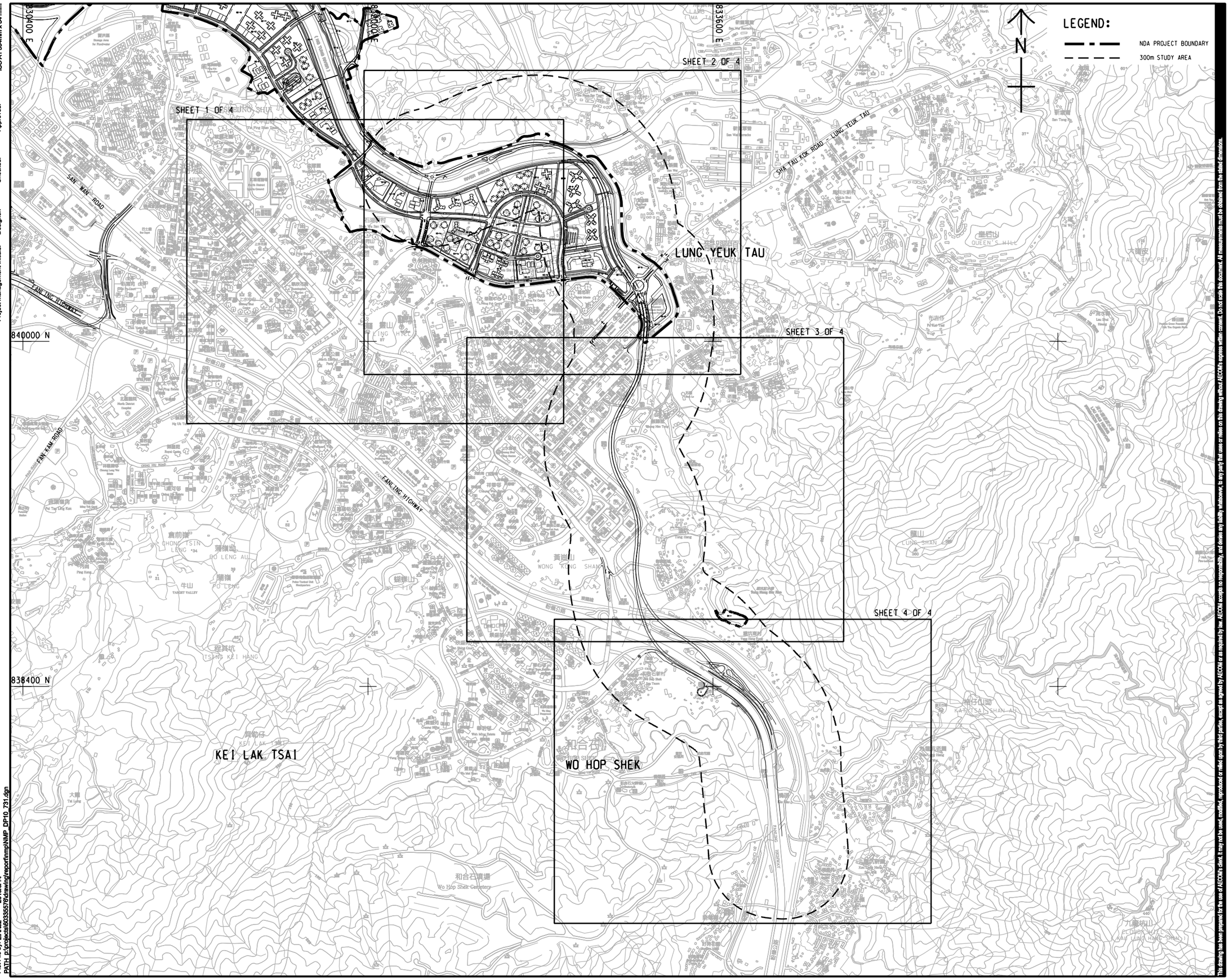
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:



Plot File by: LIAN,IZ 2019/5/14
PATH: P:\projects\60335576\drawing\report\nmp\NMP_DP10_731.dgn

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

CEDD 土木工程拓展署 Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對

STATUS
階段

SCALE 比例
A1 1 : 8000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60335576

CONTRACT NO. 合約編號
CE 13/2014 (CE)

SHEET TITLE
圖紙名稱

LATEST PROPOSAL OF TRAFFIC NOISE MITIGATION MEASURES KEY PLAN

SHEET NUMBER
圖紙編號

60335576/NMP/DP10/FIGURE 2.2a

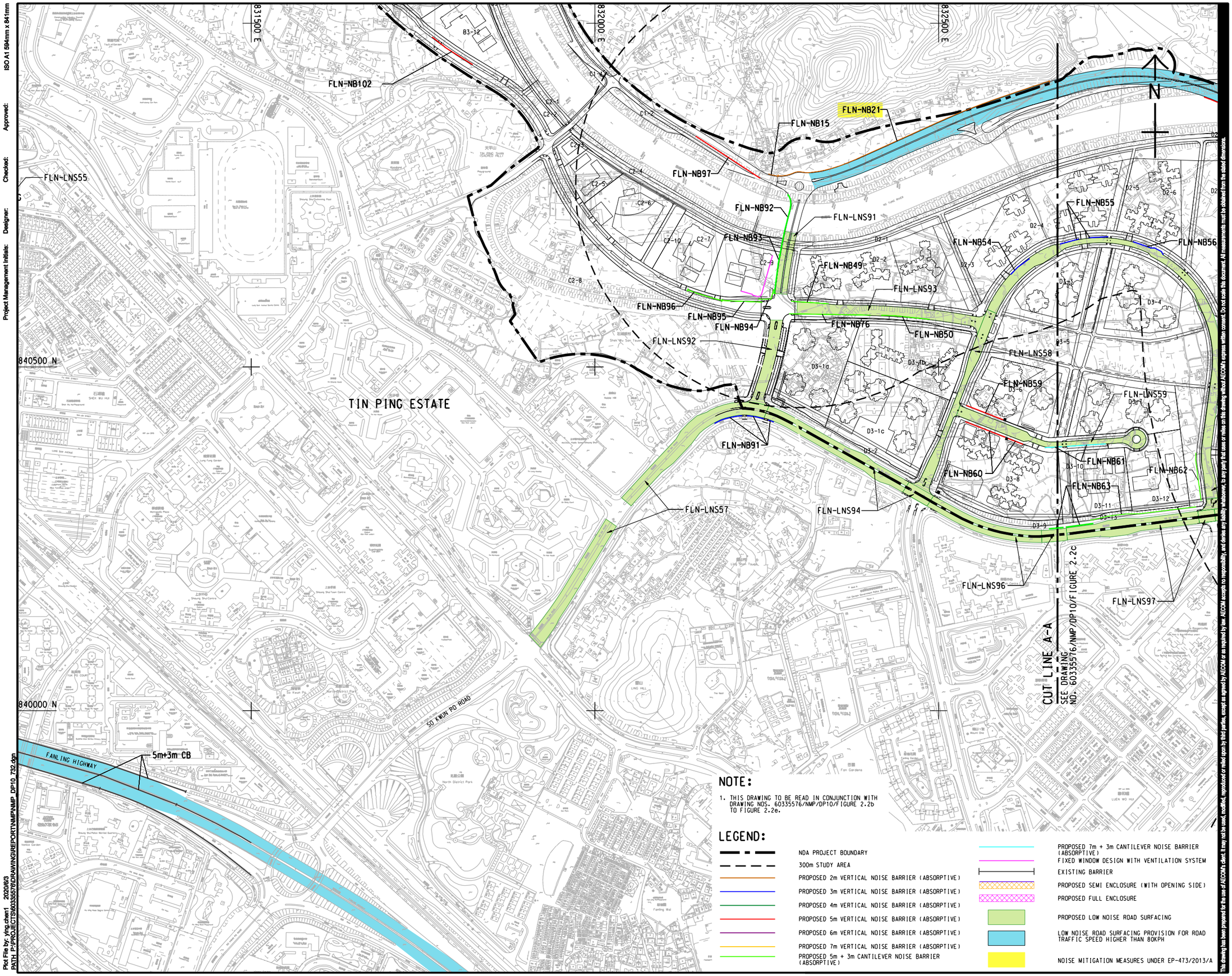
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:



NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/NMP/DP10/FIGURE 2.2b TO FIGURE 2.2e.

LEGEND:

- NDA PROJECT BOUNDARY
- 300m STUDY AREA
- PROPOSED 2m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 3m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 4m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 6m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- FIXED WINDOW DESIGN WITH VENTILATION SYSTEM
- EXISTING BARRIER
- PROPOSED SEMI ENCLOSURE (WITH OPENING SIDE)
- PROPOSED FULL ENCLOSURE
- PROPOSED LOW NOISE ROAD SURFACING
- LOW NOISE ROAD SURFACING PROVISION FOR ROAD TRAFFIC SPEED HIGHER THAN 80KPH
- NOISE MITIGATION MEASURES UNDER EP-473/2013/A

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

Plot File by: ying.chen1 2020/8/3
PATH: P:\PROJECTS\60335576\DRAWING\REPORT\NMP\NMP_DP10_732.dgn

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

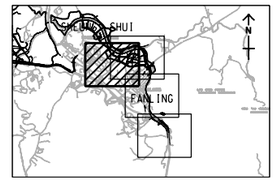
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核實

STATUS
階段

SCALE 比例
A1 1 : 2500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 100000



PROJECT NO. 項目編號
60335576

CONTRACT NO. 合約編號
CE 13/2014 (CE)

SHEET TITLE 圖紙名稱
LATEST PROPOSAL OF TRAFFIC NOISE MITIGATION MEASURES

SHEET 1 OF 4

SHEET NUMBER 圖紙編號
60335576/NMP/DP10/FIGURE 2.2b

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 603355576/NMP/DP10/FIGURE 2.2b TO FIGURE 2.2e.

LEGEND:

- NDA PROJECT BOUNDARY
- 300m STUDY AREA
- PROPOSED 2m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 3m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 4m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 6m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- FIXED WINDOW DESIGN WITH VENTILATION SYSTEM
- EXISTING BARRIER
- PROPOSED SEMI ENCLOSURE (WITH OPENING SIDE)
- PROPOSED FULL ENCLOSURE
- PROPOSED LOW NOISE ROAD SURFACING
- LOW NOISE ROAD SURFACING PROVISION FOR ROAD TRAFFIC SPEED HIGHER THAN 80KPH
- NOISE MITIGATION MEASURES UNDER EP-473/2013/A

832500 E

833000 E

841000 N

840500 N

840000 N

CUT LINE A-A
SEE DRAWING NO. 603355576/NMP/DP10/FIGURE 2.2b

CUT LINE B-B
SEE DRAWING NO. 60335576/NMP/DP10/FIGURE 2.2d

KAN LUNG TSUEN

WU NGA LOK YEUNG

LING SHAN TSUEN

MA SIK ROAD

SHA TAU KOK ROAD – LUNG YEUK TAU

FLN-NB15
FLN-NB21
FLN-NB22
FLN-NB23
FLN-NB24
FLN-NB33b
FLN-NB33d
FLN-NB34
FLN-NB35
FLN-NB49
FLN-NB50
FLN-NB54
FLN-NB55
FLN-NB56
FLN-NB59
FLN-NB60
FLN-NB61
FLN-NB62
FLN-NB63
FLN-NB76
FLN-NB91
FLN-NB92
FLN-NB93
FLN-NB94
FLN-NB95
FLN-NB96
FLN-NB97
FLN-LNS91
FLN-LNS92
FLN-LNS93
FLN-LNS94
FLN-LNS95
FLN-LNS96
FLN-LNS97
FLN-LNS98
FLN-LNS11
FLN-LNS12
FLN-LNS13
FLN-LNS14
FLN-LNS15
FLN-LNS57
FLN-LNS58
FLN-LNS59
FLN-LNS60
FLN-LNS61
FLN-SE11
FLN-SE21
FLN-SE22

CLOSED SIDE
OPENING SIDE

Plot File by: ying.chen1 2020/6/3
PATH: P:\PROJECTS\603355576\DRAWING\REPORT\NMP\NMP_DP10_733.dgn

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

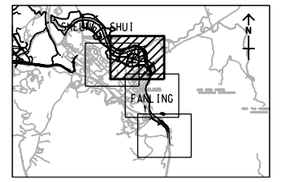
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核實

STATUS
階段

SCALE
比例
A1 1 : 2500

DIMENSION UNIT
尺寸單位
METRES

KEY PLAN
索引圖
A1 1 : 100000



PROJECT NO.
項目編號
60335576

CONTRACT NO.
合約編號
CE 13/2014 (CE)

SHEET TITLE
圖紙名稱
LATEST PROPOSAL OF TRAFFIC NOISE MITIGATION MEASURES

SHEET 2 OF 4

SHEET NUMBER
圖紙編號
60335576/NMP/DP10/FIGURE 2.2c

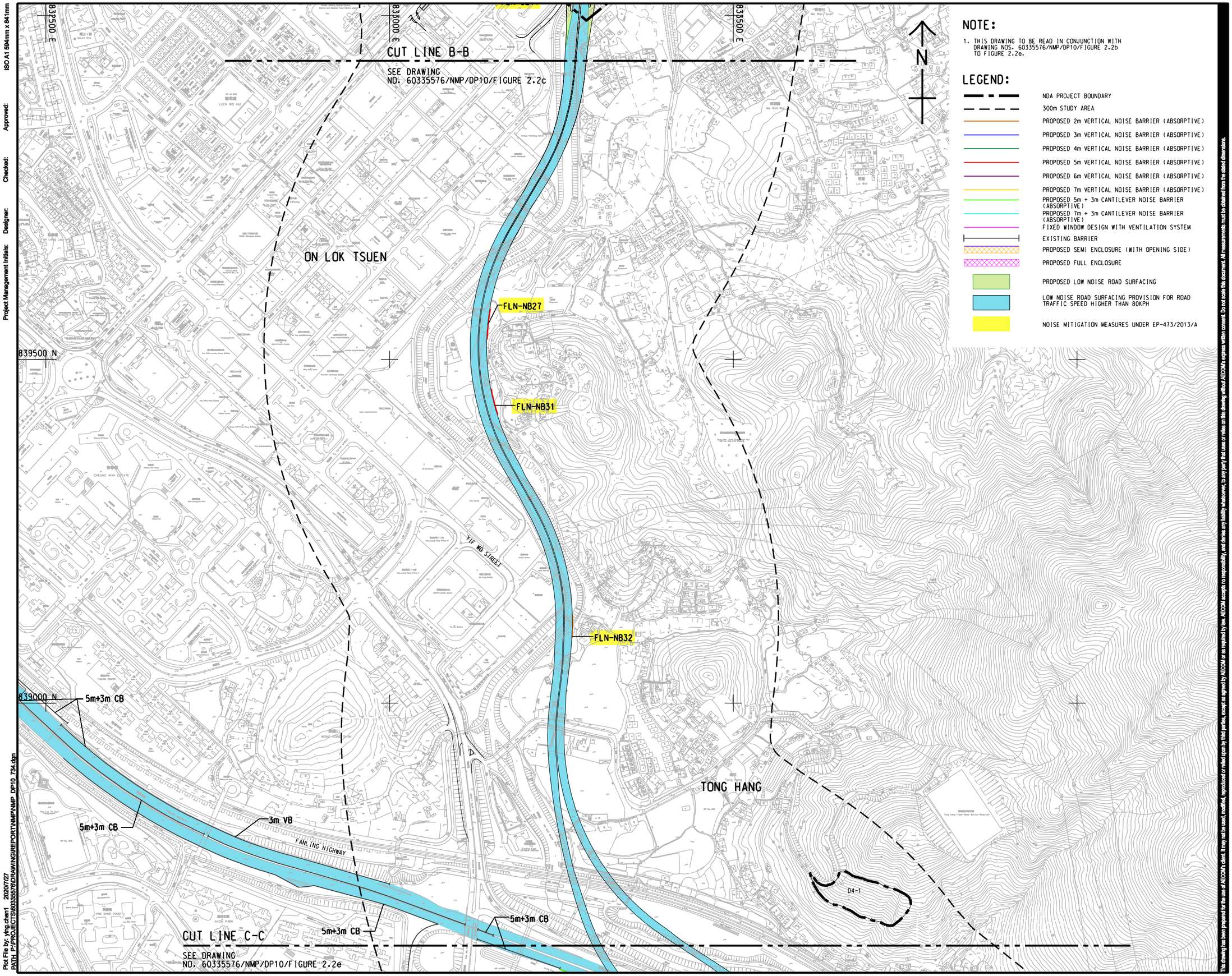
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:



NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/NMP/DP10/FIGURE 2.2b TO FIGURE 2.2e.

LEGEND:

- NDA PROJECT BOUNDARY
- 300m STUDY AREA
- PROPOSED 2m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 3m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 4m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 6m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- FIXED WINDOW DESIGN WITH VENTILATION SYSTEM
- EXISTING BARRIER
- PROPOSED SEMI ENCLOSURE (WITH OPENING SIDE)
- PROPOSED FULL ENCLOSURE
- PROPOSED LOW NOISE ROAD SURFACING
- LOW NOISE ROAD SURFACING PROVISION FOR ROAD TRAFFIC SPEED HIGHER THAN 80KPH
- NOISE MITIGATION MEASURES UNDER EP-473/2013/A

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT 項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT 業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 發行

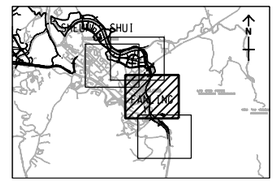
I/R 修訂	DATE 日期	DESCRIPTION 內容簡要	CHK. 核查

STATUS 階段

SCALE 比例
A1 1 : 2500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 100000



PROJECT NO. 項目編號
60335576

CONTRACT NO. 合約編號
CE 13/2014 (CE)

SHEET TITLE 圖紙名稱

LATEST PROPOSAL OF TRAFFIC NOISE MITIGATION MEASURES

SHEET 3 OF 4

SHEET NUMBER 圖紙編號

60335576/NMP/DP10/FIGURE 2.2d

Plot File by: yng.ctwm1 2020/7/27
PATH: P:\PROJECTS\60335576\DRAWING\REPORT\NMP\NMP_DP10_734.dgn

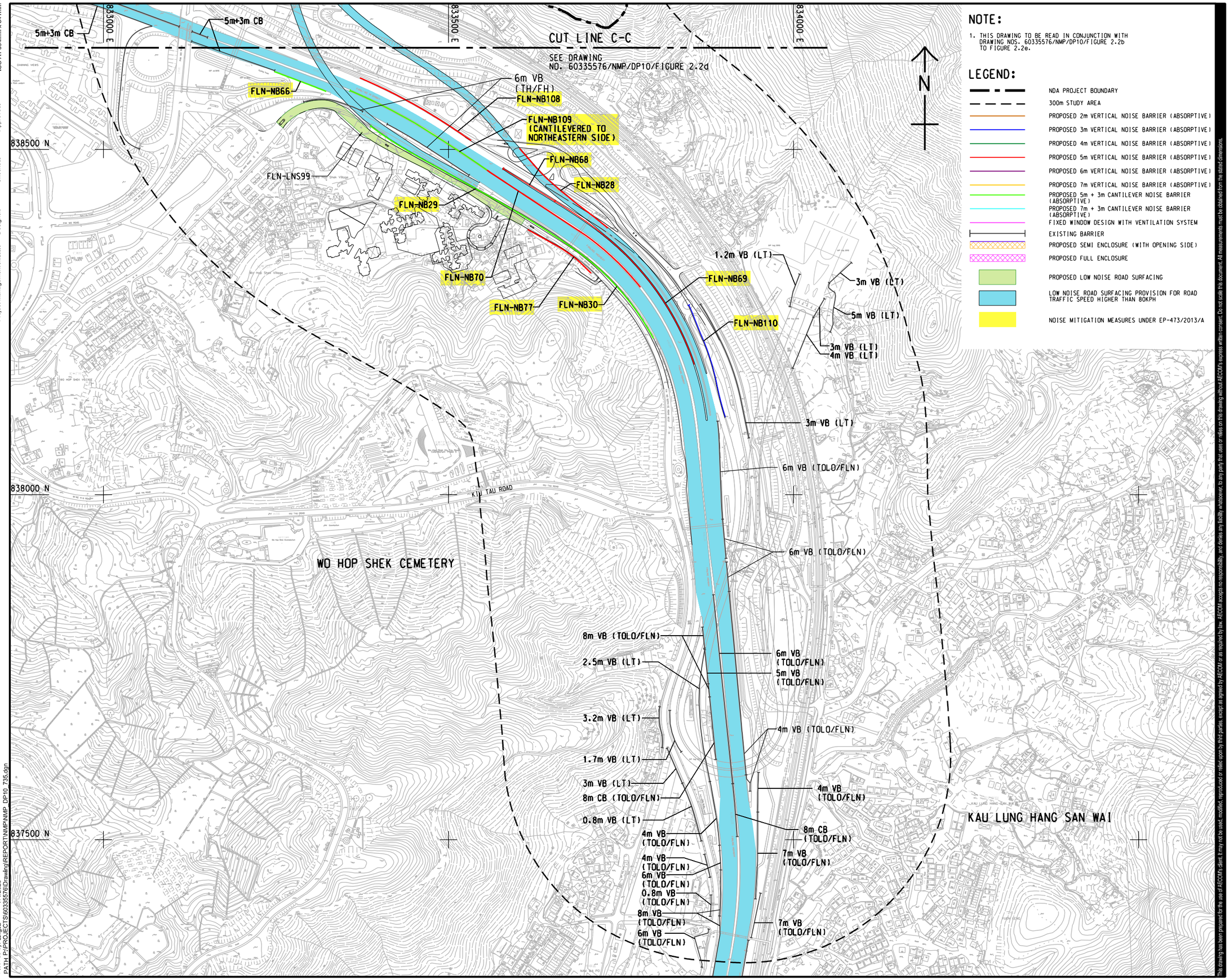
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:



NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/NMP/DP10/FIGURE 2.2b TO FIGURE 2.2e.

LEGEND:

- NDA PROJECT BOUNDARY
- 300m STUDY AREA
- PROPOSED 2m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 3m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 4m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 6m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- FIXED WINDOW DESIGN WITH VENTILATION SYSTEM
- EXISTING BARRIER
- PROPOSED SEMI ENCLOSURE (WITH OPENING SIDE)
- PROPOSED FULL ENCLOSURE
- PROPOSED LOW NOISE ROAD SURFACING
- LOW NOISE ROAD SURFACING PROVISION FOR ROAD TRAFFIC SPEED HIGHER THAN 80KPH
- NOISE MITIGATION MEASURES UNDER EP-473/2013/A

AECOM

PROJECT 項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT 業主

土木工程拓展署 Civil Engineering and Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

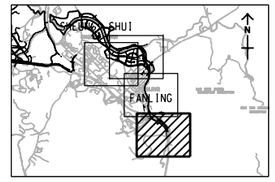
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核核

STATUS 階段

SCALE 比例 A1 1 : 2500

DIMENSION UNIT 尺寸單位 METRES

KEY PLAN 索引圖 A1 1 : 100000



PROJECT NO. 項目編號 60335576

CONTRACT NO. 合約編號 CE 13/2014 (CE)

SHEET TITLE 圖紙名稱

LATEST PROPOSAL OF TRAFFIC NOISE MITIGATION MEASURES

SHEET 4 OF 4

SHEET NUMBER 圖紙編號

60335576/NMP/DP10/FIGURE 2.2e

This drawing has been prepared for the use of AECOM's client, it may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

Plot File by: Lingu2 7/4/2023
PATH: P:\PROJECTS\60335576\Drawing\REPORT\NMP\NMP_DP10_735.dgn

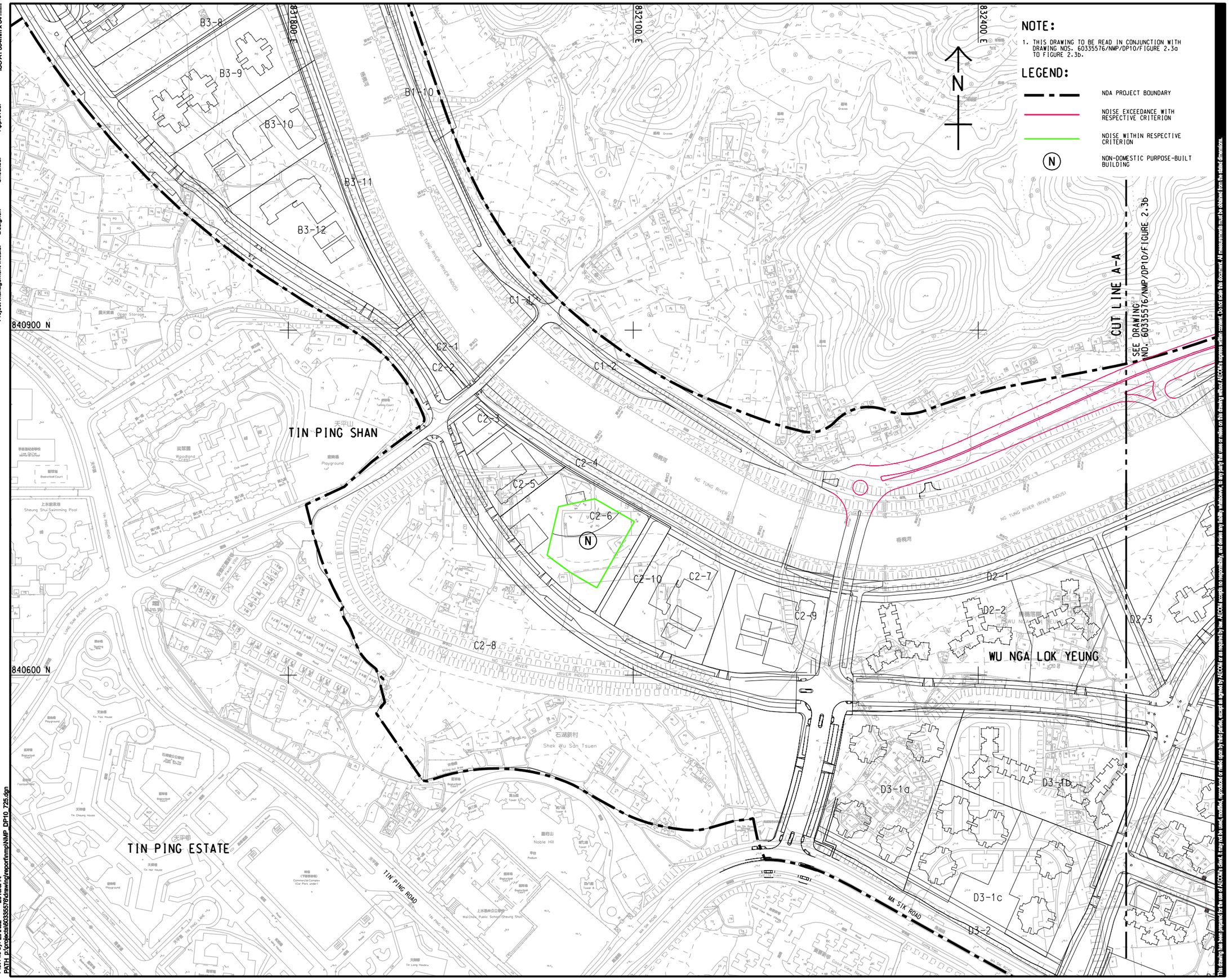
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:



Plot File by: LIANJ2 2019/5/14
PATH: P:\projects\60335576\drawing\report\nmp\NMP_DP10_725.dgn

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, for any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
CEDD Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

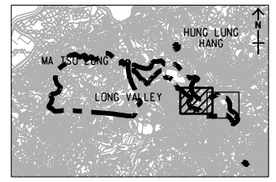
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核核

STATUS
現狀

SCALE 比例
A1 1 : 1500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 100000



PROJECT NO. 項目編號
60335576

CONTRACT NO. 合約編號
CE 13/2014 (CE)

SHEET TITLE 圖紙名稱
LOCATIONS OF PROPOSED SOCIAL WELFARE FACILITIES WITH RESIDENTIAL PREMISES

SHEET 1 OF 2

SHEET NUMBER 圖紙編號
60335576/NMP/DP10/FIGURE 2.3a

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/NMP/DP10/FIGURE 2.3a TO FIGURE 2.3b.

LEGEND:

- NDA PROJECT BOUNDARY
- NOISE EXCEEDANCE WITH RESPECTIVE CRITERION
- NOISE WITHIN RESPECTIVE CRITERION
- (N) NON-DOMESTIC PURPOSE-BUILT BUILDING

CUT LINE A-A

SEE DRAWING NO. 60335576/NMP/DP10/FIGURE 2.3a

832700 E

833000 E

833300 E

840700 N

840400 N

N

KAN LUNG TSUEN

WU NGA LOK YEUNG

NG TUNG RIVER (RIVER INDUS)

MA WAT RIVER

MA SIK ROAD

D2-1 D2-2 D2-3 D2-4 D2-5 D2-6 D2-7 D2-8 D2-9 D2-10 D2-11 D2-12 D2-13 D2-14

D3-1 D3-2 D3-3 D3-4 D3-5 D3-6 D3-7 D3-8 D3-9 D3-10 D3-11 D3-12 D3-13

D1-4 D1-5

Suen Douh Comp

Football Field

San Uk Tsuen

LUNG YEUK TAU

Wing Fai Centre

Belair Monte

Wing Ning Wai

Plot File by: LIANJ2 2016/6/14
PATH: p:\projects\60335576\drawing\report\nmp\NMP_DP10_726.dgn

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT 項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT 業主

CEDD 土木工程拓展署 Civil Engineering and Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

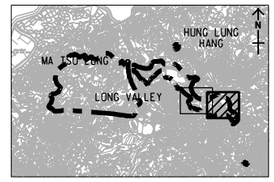
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核核

STATUS 階段

SCALE 比例
A1 1 : 1500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 100000



PROJECT NO. 項目編號
60335576

CONTRACT NO. 合約編號
CE 13/2014 (CE)

SHEET TITLE 圖紙名稱

LOCATIONS OF PROPOSED SOCIAL WELFARE FACILITIES WITH RESIDENTIAL PREMISES

SHEET 2 OF 2

SHEET NUMBER 圖紙編號

60335576/NMP/DP10/FIGURE 2.3b

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

832400 E

832700 E

833000 E

840700 N

840400 N

LEGEND:

NDA PROJECT BOUNDARY

NOISE EXCEEDANCE WITH RESPECTIVE CRITERION

NOISE WITHIN RESPECTIVE CRITERION

(N) NON-DOMESTIC PURPOSE-BUILT BUILDING

(P) PODIUM

N

KAN LUNG TSUEN

NG TUNG RIVER (RIVER INDUS)

梧桐河

MA WAT RIVER

WU NGA LOK YEUNG

MA SIK ROAD

D2-1 D2-2 D2-3 D2-4 D2-5 D2-6 D2-7 D2-8 D2-9 D2-10 D2-11 D2-12 D2-13 D2-14

D1-4

C2-9

D3-1a D3-1b D3-1c D3-2 D3-3 D3-4 D3-5 D3-6 D3-7 D3-8 D3-9 D3-10 D3-11 D3-12 D3-13

Good View New Village

Long Shan Tsuen

Wing Fok Centre

Belair Monte

Plot File by: LIANL2 2019/5/14
PATH: p:\projects\60335576\drawing\report\nmp\NMP_DP10_727.dgn

This drawing shall be prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and disclaim any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

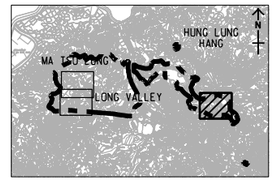
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核查

STATUS
階段

SCALE 比例
A1 1 : 1500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 100000



PROJECT NO. 項目編號
60335576

CONTRACT NO. 合約編號
CE 13/2014 (CE)

SHEET TITLE 圖紙名稱
LOCATIONS OF PROPOSED KINDERGARTEN

SHEET NUMBER 圖紙編號
60335576/NMP/DP10/FIGURE 2.4

[BLANK]

APPENDICES

[BLANK]

Appendix 1.1A

Traffic Noise Mitigation Measures Proposed in P&E Review

[BLANK]

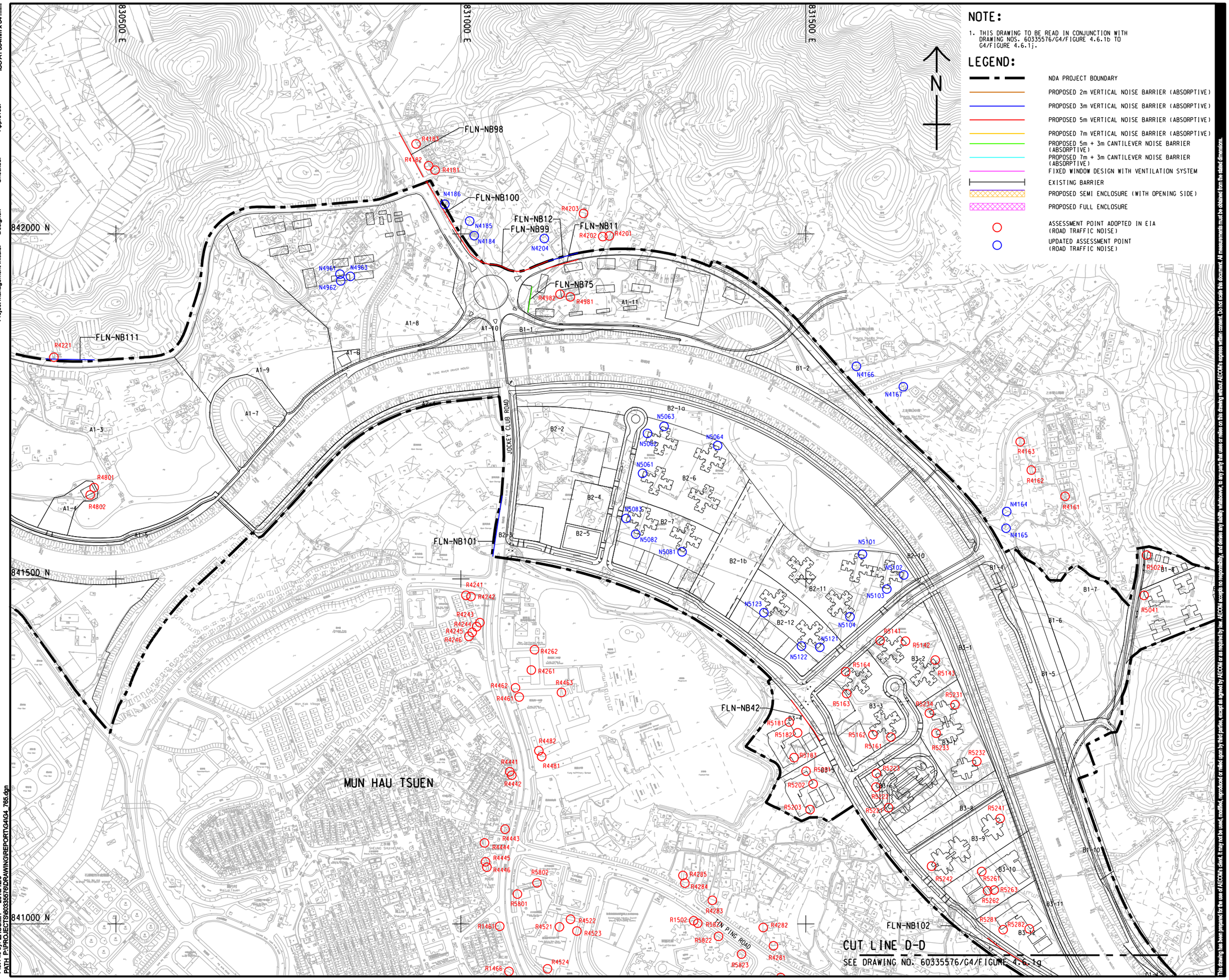
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:



NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/G4/FIGURE 4.6.1b TO G4/FIGURE 4.6.1j.

LEGEND:

- NDA PROJECT BOUNDARY
- PROPOSED 2m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 3m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- FIXED WINDOW DESIGN WITH VENTILATION SYSTEM
- EXISTING BARRIER
- PROPOSED SEMI ENCLOSURE (WITH OPENING SIDE)
- PROPOSED FULL ENCLOSURE
- ASSESSMENT POINT ADOPTED IN EIA (ROAD TRAFFIC NOISE)
- UPDATED ASSESSMENT POINT (ROAD TRAFFIC NOISE)

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

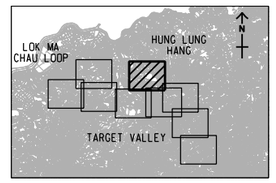
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對

STATUS
階段

SCALE 比例: A1 1 : 2500

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A1 1 : 150000



PROJECT NO. 項目編號: 60335576

CONTRACT NO. 合約編號: CE 13/2014 (CE)

SHEET TITLE
圖紙名稱

LOCATIONS AND EXTENT OF MITIGATION MEASURES AT YEAR 2044 (KTN & FLN)

SHEET 5 OF 9

SHEET NUMBER
圖紙編號

60335576/G4/FIGURE 4.6.1f

Plot File by: ZHOUMH 2016/12/6
PATH: P:\PROJECTS\60335576\DRAWING\REPORT\G4\G4_765.dgn

ISO A1 594mm x 841mm

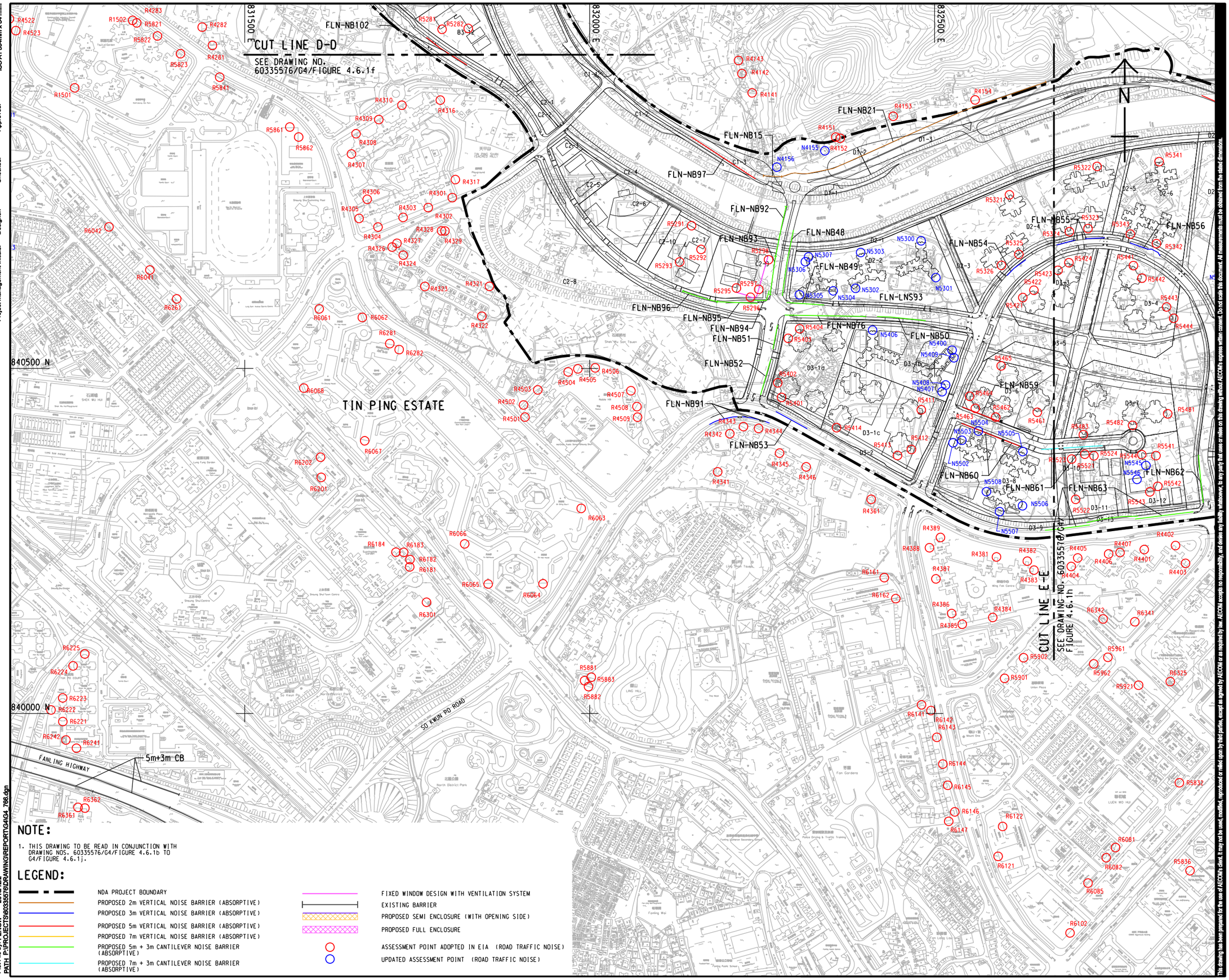
Approved:

Checked:

Designer:

Project Management Initials:

Plot File by: PENGW 2016/12/2
PATH: P:\PROJECTS\60335576\DRAWING\REPORT\G4\G4_766.dgn



NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/G4/FIGURE 4.6.1b TO G4/FIGURE 4.6.1j.

LEGEND:

- NDA PROJECT BOUNDARY
- PROPOSED 2m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 3m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- FIXED WINDOW DESIGN WITH VENTILATION SYSTEM
- EXISTING BARRIER
- PROPOSED SEMI ENCLOSURE (WITH OPENING SIDE)
- PROPOSED FULL ENCLOSURE
- ASSESSMENT POINT ADOPTED IN EIA (ROAD TRAFFIC NOISE)
- UPDATED ASSESSMENT POINT (ROAD TRAFFIC NOISE)

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

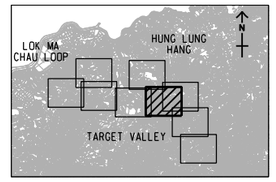
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對

STATUS
現狀

SCALE 比例
A1 1 : 2500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 150000



PROJECT NO. 項目編號
60335576

CONTRACT NO. 合約編號
CE 13/2014 (CE)

SHEET TITLE 圖紙名稱

LOCATIONS AND EXTENT OF MITIGATION MEASURES AT YEAR 2044 (KTN & FLN)

SHEET 6 OF 9

SHEET NUMBER 圖紙編號

60335576/G4/FIGURE 4.6.1g

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimension.

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/G4/FIGURE 4.6.1b TO G4/FIGURE 4.6.1j.

LEGEND:

- NDA PROJECT BOUNDARY
- PROPOSED 2m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 3m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- FIXED WINDOW DESIGN WITH VENTILATION SYSTEM
- EXISTING BARRIER
- PROPOSED SEMI ENCLOSURE (WITH OPENING SIDE)
- PROPOSED FULL ENCLOSURE
- ASSESSMENT POINT ADOPTED IN EIA (ROAD TRAFFIC NOISE)
- UPDATED ASSESSMENT POINT (ROAD TRAFFIC NOISE)

832500 E

833000 E

841000 N

840500 N

840000 N

CUT LINE E-E

SEE DRAWING NOS. 60335576/G4/FIGURE 4.6.1.g

CUT LINE F-F

SEE DRAWING NO. 60335576/G4/FIGURE 4.6.1i

KAN LUNG TSUEN

LING SHAN TSUEN

WU NGA LOK YEUNG

MA SIK ROAD

SHA TAU ROAD - LUNG TCUK TAU

FLN-NB15 FLN-NB21 FLN-NB22 FLN-NB23 FLN-NB24 FLN-NB35 FLN-NB48 FLN-NB49 FLN-NB50 FLN-NB51 FLN-NB52 FLN-NB53 FLN-NB54 FLN-NB55 FLN-NB56 FLN-NB59 FLN-NB60 FLN-NB61 FLN-NB62 FLN-NB63 FLN-NB76 FLN-NB91 FLN-NB92 FLN-NB93 FLN-NB94 FLN-NB95 FLN-NB96 FLN-NB97 FLN-LNS93 FLN-SE11 FLN-SE21 FLN-SE22 FLN-NB33 FLN-NB34

CLOSED SIDE OPENING SIDE

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

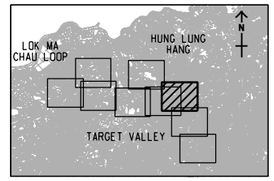
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核核

STATUS
狀況

SCALE
比例
A1 1 : 2500

DIMENSION UNIT
尺寸單位
METRES

KEY PLAN
索引圖
A1 1 : 150000



PROJECT NO.
項目編號
60335576

CONTRACT NO.
合約編號
CE 13/2014 (CE)

SHEET TITLE
圖紙名稱

LOCATIONS AND EXTENT OF MITIGATION MEASURES AT YEAR 2044 (KTN & FLN)

SHEET 7 OF 9

SHEET NUMBER
圖紙編號
60335576/G4/FIGURE 4.6.1h

Plot File by: yauky
PATH: P:\PROJECTS\60335576\DRAWING\REPORT\G4\G4_767.dgn
19/9/2017

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

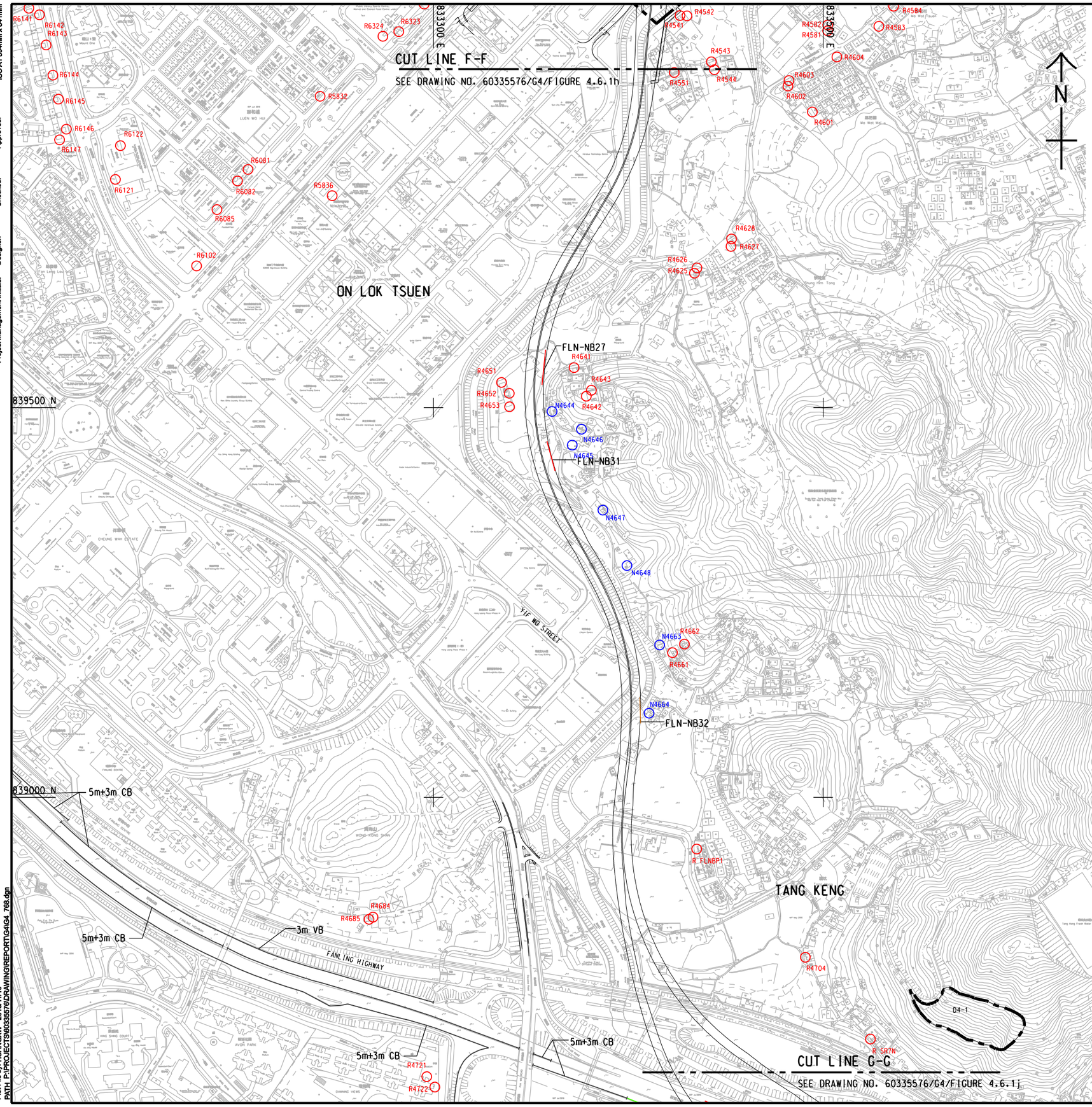
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:



NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/G4/FIGURE 4.6.1b TO G4/FIGURE 4.6.1j.

LEGEND:

- NDA PROJECT BOUNDARY
- PROPOSED 2m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 3m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- FIXED WINDOW DESIGN WITH VENTILATION SYSTEM
- EXISTING BARRIER
- PROPOSED SEMI ENCLOSURE (WITH OPENING SIDE)
- PROPOSED FULL ENCLOSURE
- ASSESSMENT POINT ADOPTED IN EIA (ROAD TRAFFIC NOISE)
- UPDATED ASSESSMENT POINT (ROAD TRAFFIC NOISE)

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT 項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT 業主

CEDD 土木工程拓展署 Civil Engineering and Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核核

STATUS 階段

SCALE 比例 A1 1 : 2500

DIMENSION UNIT 尺寸單位 METRES

KEY PLAN 索引圖 A1 1 : 150000

PROJECT NO. 項目編號 60335576

CONTRACT NO. 合約編號 CE 13/2014 (CE)

SHEET TITLE 圖紙名稱

LOCATIONS AND EXTENT OF MITIGATION MEASURES AT YEAR 2044 (KTN & FLN)

SHEET 8 OF 9

SHEET NUMBER 圖紙編號

60335576/G4/FIGURE 4.6.1i

Plot File by: HUANGXW 2016/11/10
PATH: P:\PROJECTS\60335576\DRAWING\REPORT\G4\G4_768.dgn

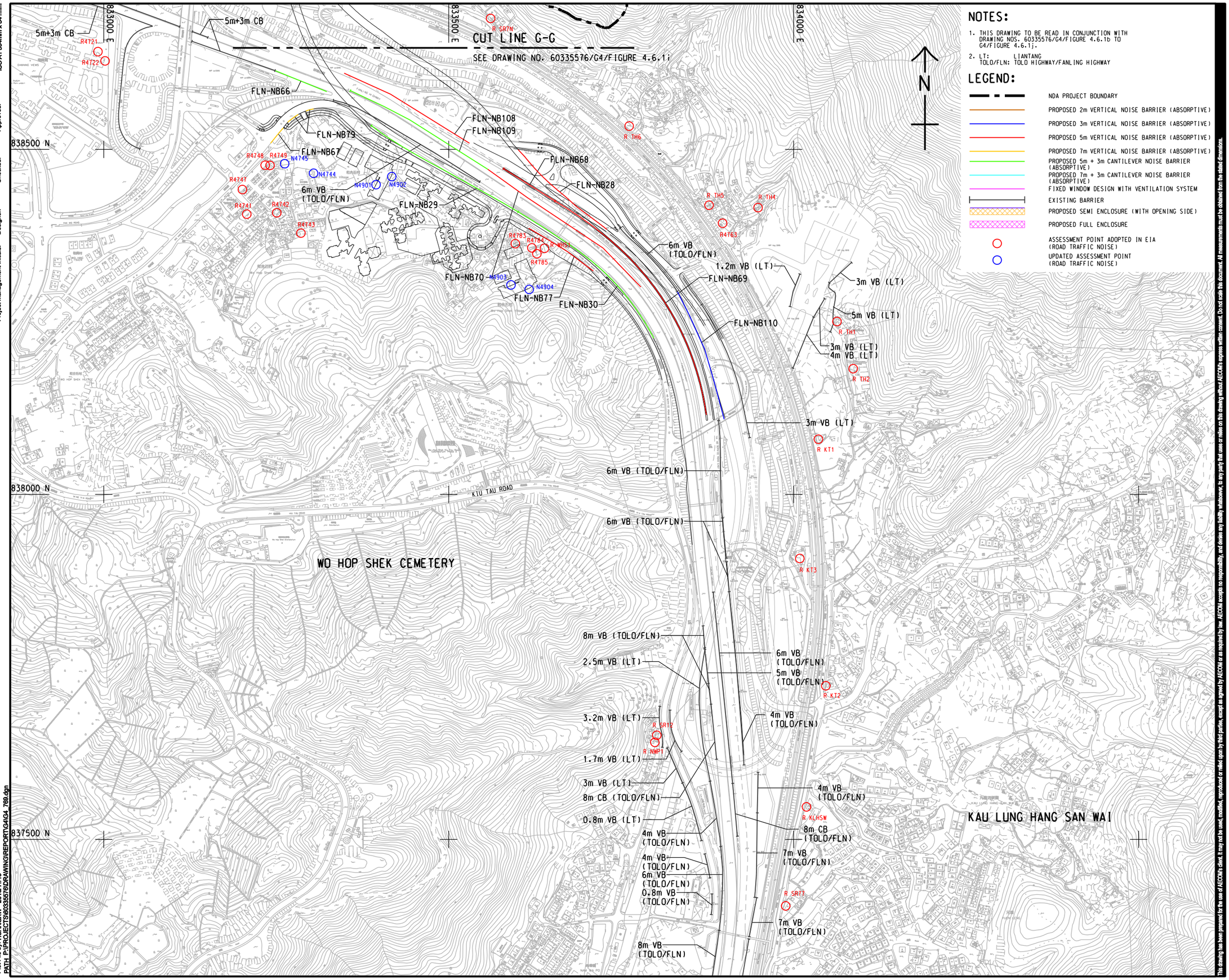
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:



NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/G4/FIGURE 4.6.1b TO G4/FIGURE 4.6.1j.
2. LT: LIANTANG
   TOLO/FLN: TOLO HIGHWAY/FANLING HIGHWAY

LEGEND:

- NDA PROJECT BOUNDARY
- PROPOSED 2m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 3m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- FIXED WINDOW DESIGN WITH VENTILATION SYSTEM
- EXISTING BARRIER
- PROPOSED SEMI ENCLOSURE (WITH OPENING SIDE)
- PROPOSED FULL ENCLOSURE
- ASSESSMENT POINT ADOPTED IN EIA (ROAD TRAFFIC NOISE)
- UPDATED ASSESSMENT POINT (ROAD TRAFFIC NOISE)

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, for any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT 項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT 業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

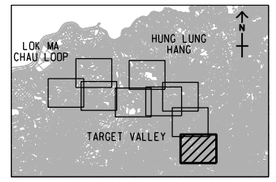
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核准

STATUS 階段

SCALE 比例: A1 1 : 2500

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A1 1 : 150000



PROJECT NO. 項目編號: 60335576

CONTRACT NO. 合約編號: CE 13/2014 (CE)

SHEET TITLE 圖紙名稱

LOCATIONS AND EXTENT OF MITIGATION MEASURES AT YEAR 2044 (KTN & FLN)

SHEET 9 OF 9

SHEET NUMBER 圖紙編號

60335576/G4/FIGURE 4.6.1j

Plot File by: HUANGXW 2016/11/15
PATH: P:\PROJECTS\60335576\DRAWING\REPORT\G4\G4_768.dgn

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

LEGEND:

- NDA PROJECT BOUNDARY
- NEWLY PROPOSED LOW NOISE ROAD SURFACING
- LOW NOISE ROAD SURFACING PROVISION FOR ROAD TRAFFIC SPEED HIGHER THAN 80KPH
- APPROVED LOW NOISE ROAD SURFACING PROVISION IN NENT EIA REPORT

N

842000 N

841000 N

840000 N

831000 E

832000 E

HUNG KIU

SAN TSUEN

SHEUNG SHUI

FANLING NORTH

LUEN WO HUI

NG TUNG RIVER

RIVER INDUS

MTR (EAST RAIL LINE)

FLN-LNS01

FLN-LNS02

FLN-LNS51

FLN-LNS52

FLN-LNS53

FLN-LNS54

FLN-LNS55

FLN-LNS56

FLN-LNS57

FLN-LNS58

FLN-LNS59

FLN-LNS60

FLN-LNS61

FLN-LNS91

FLN-LNS92

FLN-LNS93

FLN-LNS94

FLN-LNS95

FLN-LNS96

FLN-LNS97

FLN-LNS98

FLN-LNS11

FLN-LNS12

FLN-LNS13

FLN-LNS14

FLN-LNS15

Plot File by: Yauky 10/10/2018

PATH: P:\Projects\60335576\DRAWING\REPORT\G4\G4_821.dgn

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

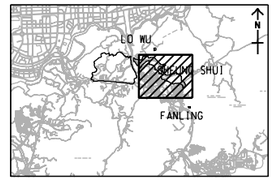
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對

STATUS
階段

SCALE 比例
A1 1 : 5000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 200000



PROJECT NO. 項目編號
60335576

CONTRACT NO. 合約編號
CE 13/2014 (CE)

SHEET TITLE 圖紙名稱
PROPOSED LOW NOISE ROAD SURFACING

SHEET NUMBER 圖紙編號
60335576/G4/FIGURE 4.6.3b

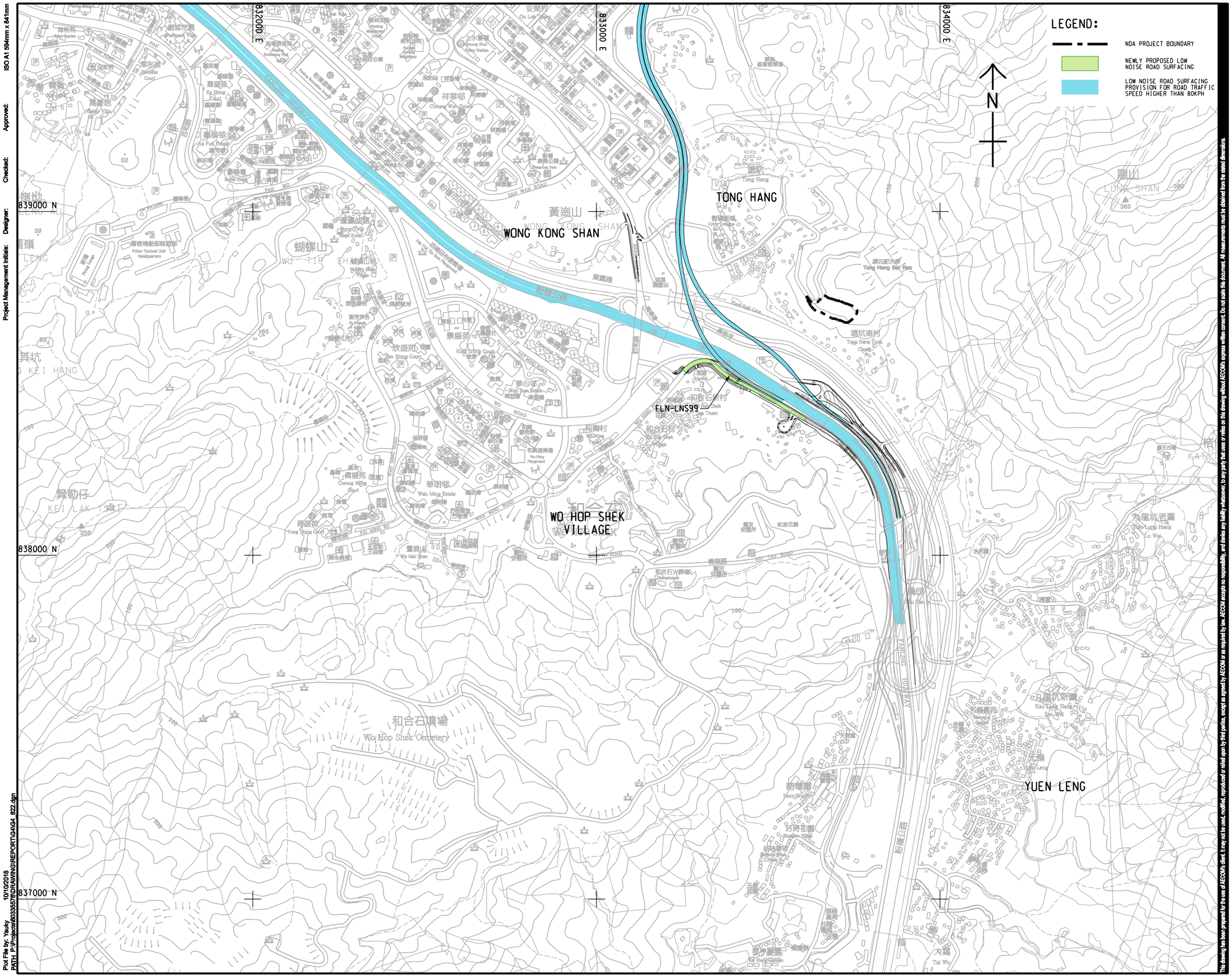
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:



Plot File by: Yauky 10/10/2018
PATH: P:\Projects\60335576\DRAWING\REPORT\G4\G4_822.dgn

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

CEDD 土木工程拓展署 Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

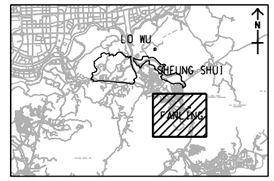
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對

STATUS
狀態

SCALE 比例
A1 1 : 5000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 200000



PROJECT NO. 項目編號
60335576

CONTRACT NO. 合約編號
CE 13/2014 (CE)

SHEET TITLE 圖紙名稱
PROPOSED LOW NOISE ROAD SURFACING

SHEET NUMBER 圖紙編號
60335576/G4/FIGURE 4.6.3c

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

[BLANK]

Appendix 1.1B

Traffic Noise Mitigation Measures Proposed in the approved Plan (September 2020)

[BLANK]

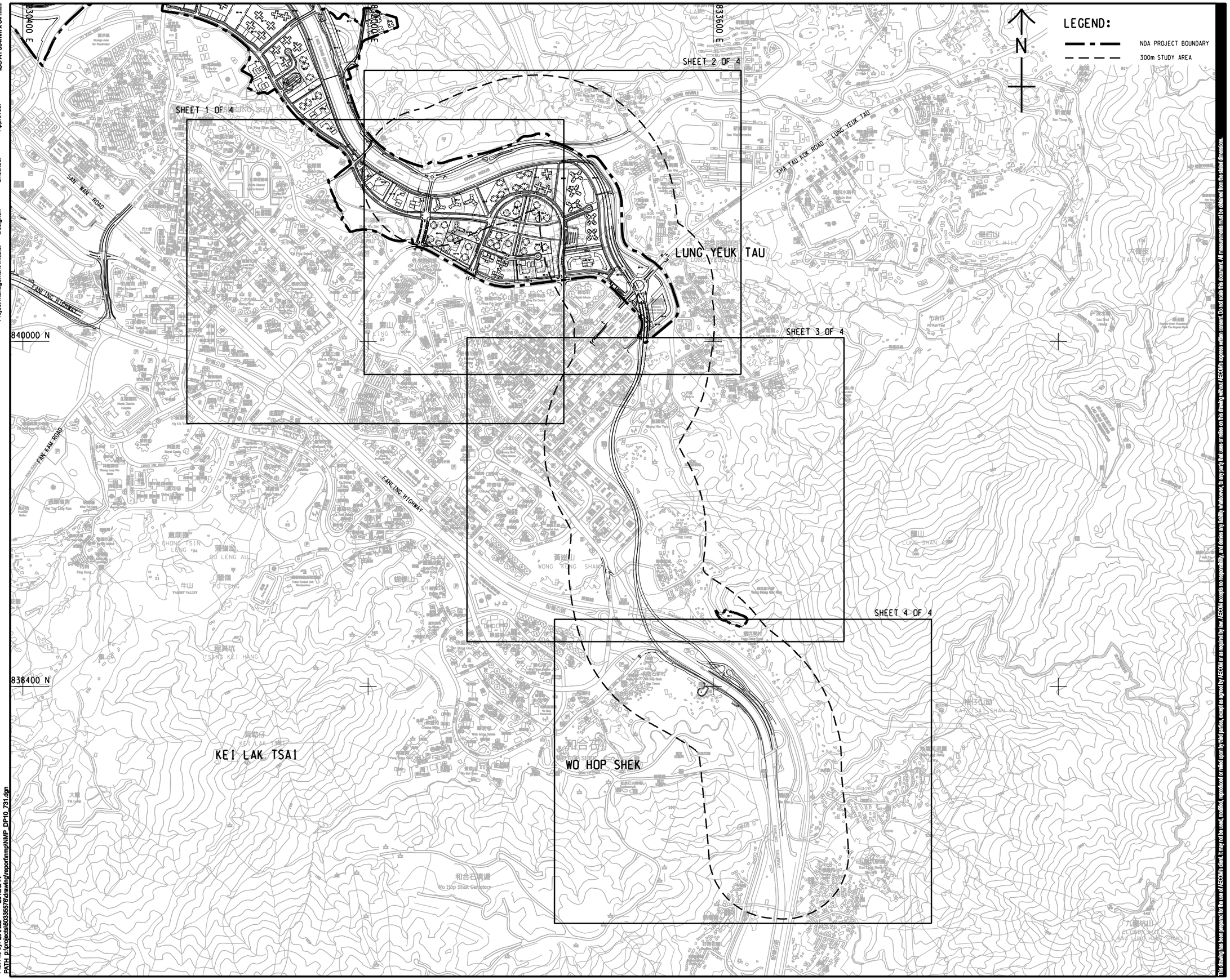
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:



Plot File by: LIAN.IZ 2019/5/14
PATH: p:\projects\60335576\drawing\report\nmp\NMP_DP10_731.dgn

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對

STATUS
現狀

SCALE 比例
A1 1 : 8000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60335576

CONTRACT NO. 合約編號
CE 13/2014 (CE)

SHEET TITLE
圖紙名稱

LATEST PROPOSAL OF TRAFFIC NOISE MITIGATION MEASURES KEY PLAN

SHEET NUMBER
圖紙編號

60335576/NMP/DP10/FIGURE 2.2a

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

831500 E

832000 E

832500 E

840500 N

840000 N

FLN-NB102

FLN-LNS55

FLN-NB15

FLN-NB21

FLN-NB97

FLN-NB92

FLN-LNS91

FLN-NB48

FLN-NB93

FLN-NB54

FLN-NB55

FLN-NB56

FLN-NB49

FLN-LNS93

FLN-NB96

FLN-NB95

FLN-NB94

FLN-NB51

FLN-LNS92

FLN-NB52

FLN-NB76

FLN-NB50

FLN-LNS58

FLN-NB59

FLN-LNS59

FLN-NB91

FLN-NB53

FLN-NB61

FLN-NB62

FLN-NB60

FLN-NB63

FLN-LNS57

FLN-LNS94

FLN-LNS96

FLN-LNS97

TIN PING ESTATE

SO KWUN PO ROAD

FANLING HIGHWAY

5m+3m CB

CUT LINE A-A

SEE DRAWING NO. 60335576/NMP/DP10/FIGURE 2.2c

N

NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/NMP/DP10/FIGURE 2.2b TO FIGURE 2.2e.

LEGEND:

- NDA PROJECT BOUNDARY
- 300m STUDY AREA
- PROPOSED 2m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 3m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 4m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 6m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- FIXED WINDOW DESIGN WITH VENTILATION SYSTEM
- EXISTING BARRIER
- PROPOSED SEMI ENCLOSURE (WITH OPENING SIDE)
- PROPOSED FULL ENCLOSURE
- PROPOSED LOW NOISE ROAD SURFACING
- LOW NOISE ROAD SURFACING PROVISION FOR ROAD TRAFFIC SPEED HIGHER THAN 80KPH
- NOISE MITIGATION MEASURES UNDER EP-473/2013/A

Plot File by: ying.chen1 2020/8/3
PATH: P:\PROJECTS\60335576\DRAWING\REPORT\NMP\NMP_DP10_732.dgn

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

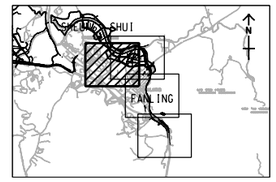
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核實

STATUS
階段

SCALE 比例
A1 1 : 2500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 100000



PROJECT NO. 項目編號
60335576

CONTRACT NO. 合約編號
CE 13/2014 (CE)

SHEET TITLE 圖紙名稱
LATEST PROPOSAL OF TRAFFIC NOISE MITIGATION MEASURES

SHEET 1 OF 4

SHEET NUMBER 圖紙編號
60335576/NMP/DP10/FIGURE 2.2b

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 603355576/NMP/DP10/FIGURE 2.2b TO FIGURE 2.2e.

LEGEND:

- NDA PROJECT BOUNDARY
- 300m STUDY AREA
- PROPOSED 2m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 3m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 4m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 6m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- FIXED WINDOW DESIGN WITH VENTILATION SYSTEM
- EXISTING BARRIER
- PROPOSED SEMI ENCLOSURE (WITH OPENING SIDE)
- PROPOSED FULL ENCLOSURE
- PROPOSED LOW NOISE ROAD SURFACING
- LOW NOISE ROAD SURFACING PROVISION FOR ROAD TRAFFIC SPEED HIGHER THAN 80KPH
- NOISE MITIGATION MEASURES UNDER EP-473/2013/A

832500 E

833000 E

841000 N

840500 N

840000 N

CUT LINE A-A
SEE DRAWING NO. 603355576/NMP/DP10/FIGURE 2.2b

CUT LINE B-B
SEE DRAWING NO. 603355576/NMP/DP10/FIGURE 2.2d

KAN LUNG TSUEN

WU NGA LOK YEUNG

LING SHAN TSUEN

MA SIK ROAD

SHA TAU KOK ROAD – LUNG YEUK TAU

FLN-NB15
FLN-NB21
FLN-NB22
FLN-NB23
FLN-NB24
FLN-NB33a
FLN-NB33b
FLN-NB34
FLN-NB35
FLN-NB48
FLN-NB49
FLN-NB50
FLN-NB51
FLN-NB52
FLN-NB53
FLN-NB54
FLN-NB55
FLN-NB56
FLN-NB59
FLN-NB60
FLN-NB61
FLN-NB62
FLN-NB63
FLN-NB76
FLN-NB91
FLN-NB92
FLN-NB93
FLN-NB94
FLN-NB95
FLN-NB96
FLN-NB97
FLN-LNS91
FLN-LNS92
FLN-LNS93
FLN-LNS94
FLN-LNS95
FLN-LNS96
FLN-LNS97
FLN-LNS98
FLN-LNS11
FLN-LNS12
FLN-LNS13
FLN-LNS14
FLN-LNS15
FLN-LNS57
FLN-LNS58
FLN-LNS59
FLN-LNS60
FLN-LNS61
FLN-SE11
FLN-SE21
FLN-SE22

CLOSED SIDE
OPENING SIDE
30m SLIP ROAD
30m SLIP ROAD

Plot File by: ytng.ctwn1 2020/8/3
PATH: P:\PROJECTS\603355576\DRAWING\REPORT\NMP\NMP_DP10_733.dgn

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
CEDD Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

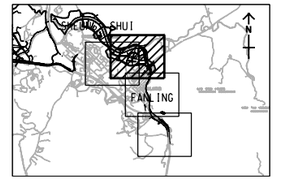
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核實

STATUS
階段

SCALE 比例: A1 1 : 2500

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A1 1 : 100000



PROJECT NO. 項目編號: 60335576

CONTRACT NO. 合約編號: CE 13/2014 (CE)

SHEET TITLE 圖紙名稱

LATEST PROPOSAL OF TRAFFIC NOISE MITIGATION MEASURES

SHEET 2 OF 4

SHEET NUMBER 圖紙編號

60335576/NMP/DP10/FIGURE 2.2c

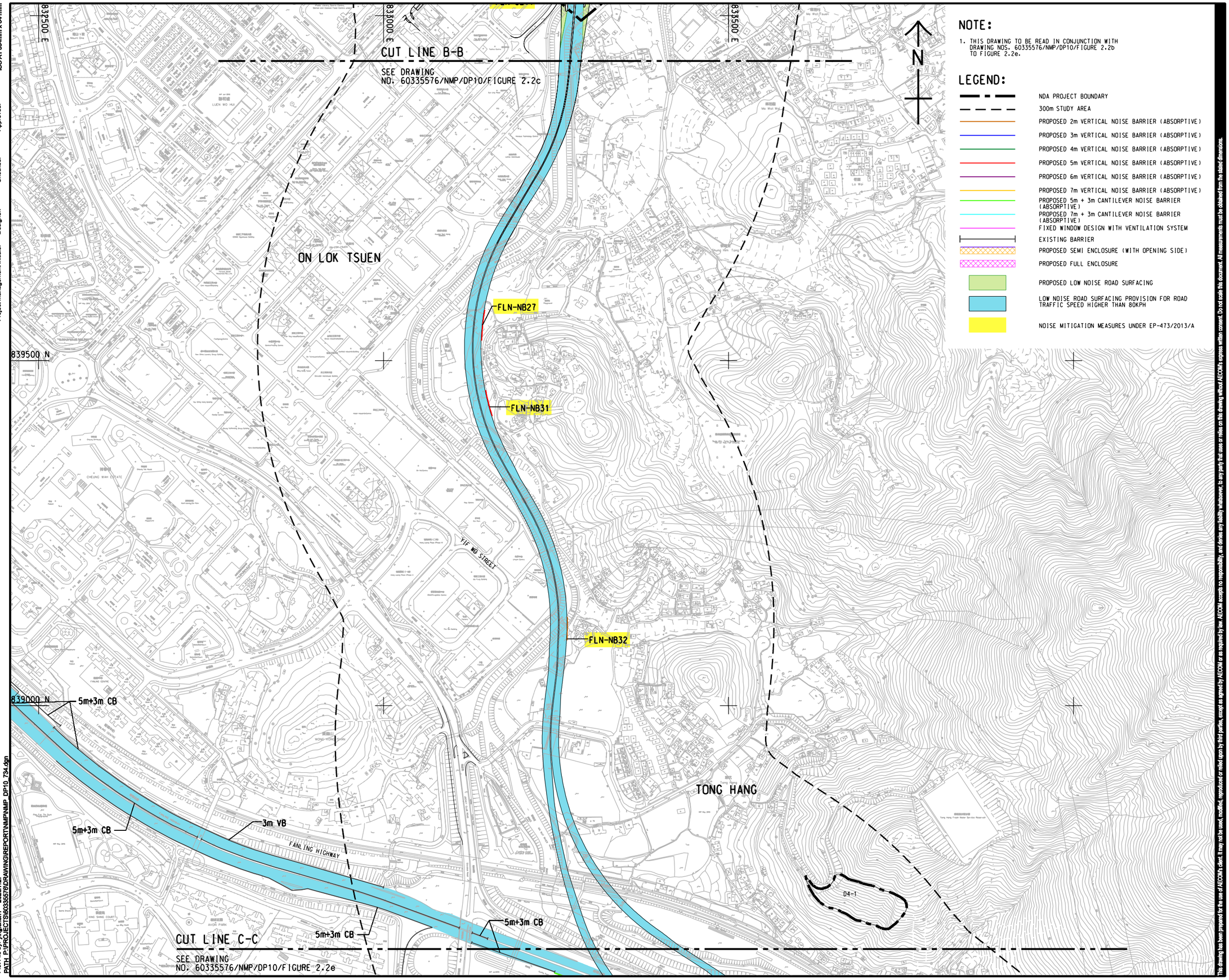
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:



NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/NMP/DP10/FIGURE 2.2b TO FIGURE 2.2e.

LEGEND:

- NDA PROJECT BOUNDARY
- 300m STUDY AREA
- PROPOSED 2m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 3m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 4m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 6m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- FIXED WINDOW DESIGN WITH VENTILATION SYSTEM
- EXISTING BARRIER
- PROPOSED SEMI ENCLOSURE (WITH OPENING SIDE)
- PROPOSED FULL ENCLOSURE
- PROPOSED LOW NOISE ROAD SURFACING
- LOW NOISE ROAD SURFACING PROVISION FOR ROAD TRAFFIC SPEED HIGHER THAN 80KPH
- NOISE MITIGATION MEASURES UNDER EP-473/2013/A

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT 項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT 業主

CEDD 土木工程拓展署 Civil Engineering and Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

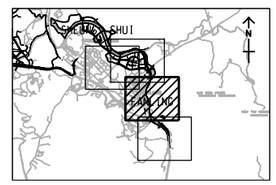
I/R 修訂	DATE 日期	DESCRIPTION 內容簡要	CHK. 核實

STATUS 階段

SCALE 比例
A1 1 : 2500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 100000



PROJECT NO. 項目編號
60335576

CONTRACT NO. 合約編號
CE 13/2014 (CE)

SHEET TITLE 圖紙名稱

LATEST PROPOSAL OF TRAFFIC NOISE MITIGATION MEASURES

SHEET 3 OF 4

SHEET NUMBER 圖紙編號

60335576/NMP/DP10/FIGURE 2.2d

Plot File by: yng.ctwm1 2020/7/27
PATH: P:\PROJECTS\60335576\DRAWING\REPORT\NMP\NMP_DP10_734.dgn

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/NMP/DP10/FIGURE 2.2b TO FIGURE 2.2e.

LEGEND:

- NDA PROJECT BOUNDARY
- 300m STUDY AREA
- PROPOSED 2m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 3m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 4m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 6m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- FIXED WINDOW DESIGN WITH VENTILATION SYSTEM
- EXISTING BARRIER
- PROPOSED SEMI ENCLOSURE (WITH OPENING SIDE)
- PROPOSED FULL ENCLOSURE
- PROPOSED LOW NOISE ROAD SURFACING
- LOW NOISE ROAD SURFACING PROVISION FOR ROAD TRAFFIC SPEED HIGHER THAN 80KPH
- NOISE MITIGATION MEASURES UNDER EP-473/2013/A

833000 E

833500 E

834000 E

838500 N

838000 N

837500 N

5m+3m CB

5m+3m CB

CUT LINE C-C

SEE DRAWING NO. 60335576/NMP/DP10/FIGURE 2.2d

N

FLN-NB66

FLN-NB108

FLN-NB109 (CANTILEVERED TO NORTHEASTERN SIDE)

FLN-NB68

FLN-NB28

FLN-LNS99

6m VB (TOLO/FLN)

FLN-NB29

FLN-NB70

FLN-NB77

FLN-NB30

1.2m VB (LT)

FLN-NB69

3m VB (LT)

5m VB (LT)

FLN-NB110

3m VB (LT)
4m VB (LT)

3m VB (LT)

FLN-NB112

FLN-NB113

FLN-NB114

KIU TAU ROAD

WO HOP SHEK CEMETERY

KAU LUNG HANG SAN WAI

8m VB (TOLO/FLN)

2.5m VB (LT)

6m VB (TOLO/FLN)

5m VB (TOLO/FLN)

4m VB (TOLO/FLN)

3.2m VB (LT)

1.7m VB (LT)

3m VB (LT)

8m CB (TOLO/FLN)

0.8m VB (LT)

4m VB (TOLO/FLN)

4m VB (TOLO/FLN)

6m VB (TOLO/FLN)

0.8m VB (TOLO/FLN)

8m VB (TOLO/FLN)

6m VB (TOLO/FLN)

4m VB (TOLO/FLN)

8m CB (TOLO/FLN)

7m VB (TOLO/FLN)

7m VB (TOLO/FLN)

Plot File by: ying.chen1 2020/7/27
PATH: P:\PROJECTS\60335576\DRAWING\REPORT\NMP\NMP_DP10_735.dgn

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT 項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT 業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

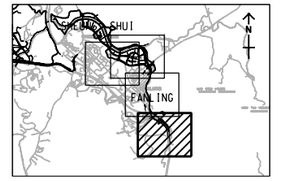
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核實

STATUS 階段

SCALE 比例
A1 1 : 2500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 100000



PROJECT NO. 項目編號
60335576

CONTRACT NO. 合約編號
CE 13/2014 (CE)

SHEET TITLE 圖紙名稱

LATEST PROPOSAL OF TRAFFIC NOISE MITIGATION MEASURES

SHEET 4 OF 4

SHEET NUMBER 圖紙編號

60335576/NMP/DP10/FIGURE 2.2e

[BLANK]

Appendix 1.2

Proposed Update on Noise Barriers between Wo Hop Shek Interchange and Nam Wa Po under Widening of Tolo Highway and Fanling Highway

[BLANK]

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

5m+3m CB (BY OTHERS)

5m+3m CB (BY OTHERS)

6m VB (A SECTION OF APPROX. 44m AND 32m TO BE PERMANENTLY AND TEMPORARILY REMOVED RESPECTIVELY)

6m VB (TO BE SHORTENED FOR APPROX. 79m AT ITS SOUTHEASTERN END AND REPLACED BY FLN-NB29 UNDER FLBP-ES PROJECT) (APPROX. CHAINAGE: 8173-8094)

NOISE BARRIER (APPROX. 32m) TO BE TEMPORARILY REMOVED

7m VB (TO BE REMOVED AND REPLACED BY FLN-NB30 AND FLN-NB77 UNDER FLBP-ES PROJECT) (APPROX. CHAINAGE: 8094-7928)

NOISE BARRIER (APPROX. 44m) TO BE PERMANENTLY REMOVED

6m VB (TO BE REMOVED UNDER FLBP-ES PROJECT) (APPROX. CHAINAGE: 7974-7849)

833500 E

834000 E

838500 N

838000 N

837500 N

SR7

SR8

SR9

WHS1

SR1012

SR1015

TH2

SR86B

NB73

NB72

SR11B

NB68A

NB69

NB67-3

NB71

SR83B

SR12

SR111

SR110

NB7

SR76

NB67-4

SR84

NB68

NB67-5

NB6

NB4b

SR112

NB66

SR77

NB4a

SR85B

NB70

NB64

KIU TAU ROAD

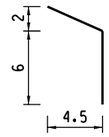
WO HOP SHEK CEMETERY

KAU LUNG HANG SAN WAI

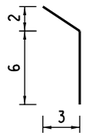
N

LEGEND:

	EXISTING BARRIER
V0.8	VERTICAL NOISE BARRIER 0.8m HIGH
V4	VERTICAL NOISE BARRIER 4m HIGH
V5	VERTICAL NOISE BARRIER 5m HIGH
V6	VERTICAL NOISE BARRIER 6m HIGH
V7	VERTICAL NOISE BARRIER 7m HIGH
V8	VERTICAL NOISE BARRIER 8m HIGH
C2a	C2a NOISE BARRIER FACING FANLING BOUND
C1	C1 NOISE BARRIER FACING FANLING BOUND
SR1015	NOISE SENSITIVE RECEIVER
	PROPOSED CHANGES OF NOISE MITIGATION MEASURES UNDER EP-324/2008/E SUGGESTED IN THIS NMP



TYPE C1 NOISE BARRIER



TYPE C2a NOISE BARRIER

ABBREVIATIONS:

TH/FH - WIDENING OF TOLO HIGHWAY/ FANLING HIGHWAY BETWEEN ISLAND HOUSE INTERCHANGE AND FANLING

This drawing has been prepared for the use of AECOM's client, it may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility and denies any liability whatsoever to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT 項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT 業主

土木工程拓展署 Civil Engineering and Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核核

STATUS 階段

SCALE 比例

A1 1 : 2500

DIMENSION UNIT 尺寸單位

METRES

KEY PLAN 索引圖

PROJECT NO. 項目編號

60335576

CONTRACT NO. 合約編號

CE 13/2014 (CE)

SHEET TITLE 圖紙名稱

PROPOSED UPDATE ON NOISE BARRIERS UNDER TH/FH PROJECT AT WO HOP SHEK AREA

SHEET NUMBER 圖紙編號

60335576/NMP/THFH/FIGURE 2.1

Plot File by: liu.yang 2023/8/21
PATH: P:\PROJECTS\60335576\Drawing\REPORT\NMP\THFH\NMP_THFH_701.dgn

[BLANK]

Appendix 1.3

Omission of Planned Noise Barriers within FLN NDA

[BLANK]

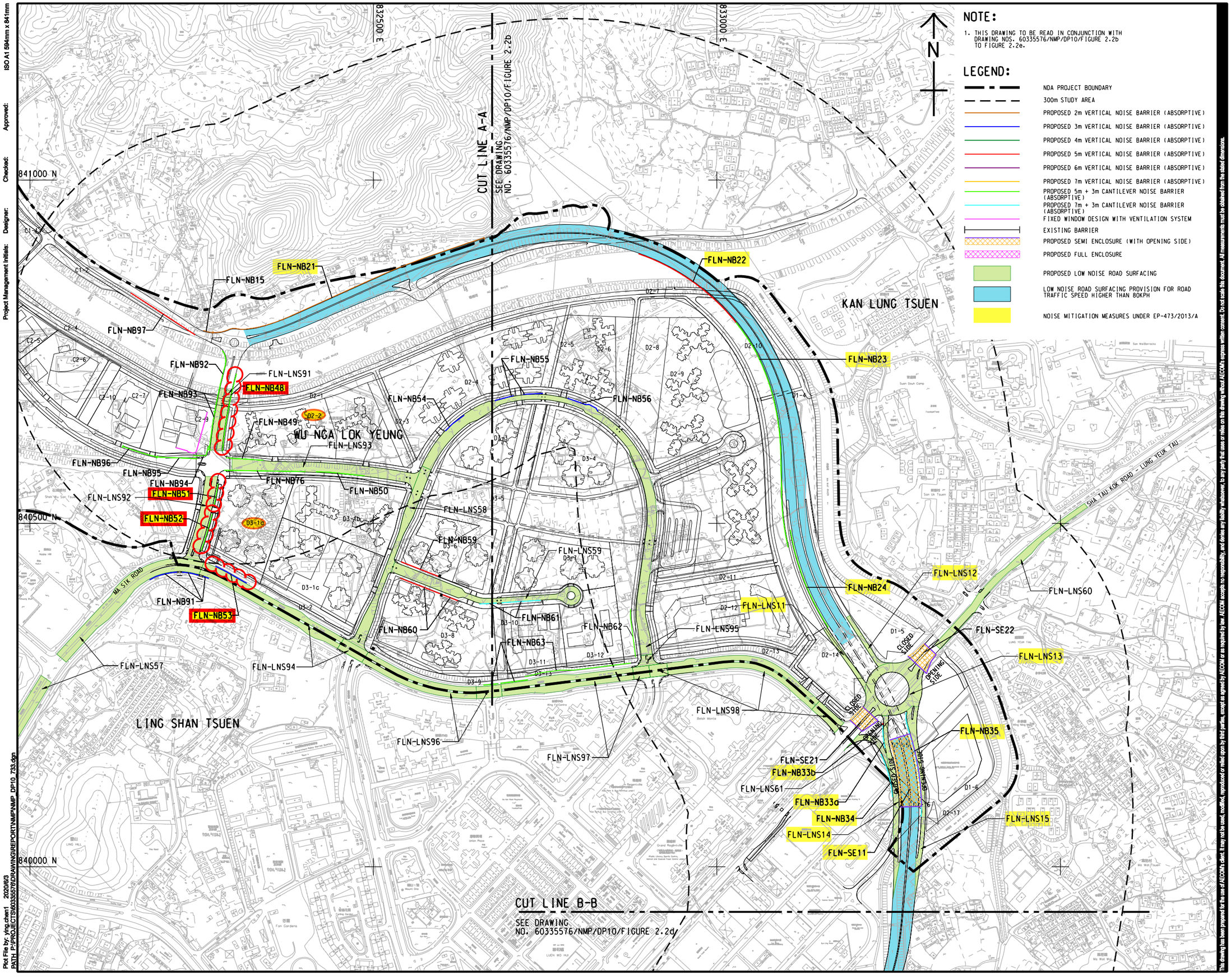
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:



Plot File by: ying.chen1 2020/6/3
PATH: P:\PROJECTS\60335576\DRAWING\REPORT\NMP\NMP_DP10_733.dgn

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

CEDD 土木工程拓展署 Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

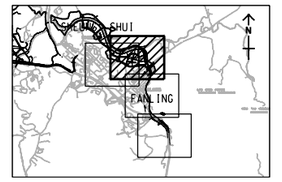
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核實

STATUS
階段

SCALE 比例
A1 1 : 2500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 100000



PROJECT NO. 項目編號
60335576

CONTRACT NO. 合約編號
CE 13/2014 (CE)

SHEET TITLE
圖紙名稱

LATEST PROPOSAL OF TRAFFIC NOISE MITIGATION MEASURES

SHEET 2 OF 4

SHEET NUMBER
圖紙編號

60335576/NMP/DP10/FIGURE 2.2c

[BLANK]

Appendix 2.1

Details of Road Traffic Forecast at Year 2044

[BLANK]

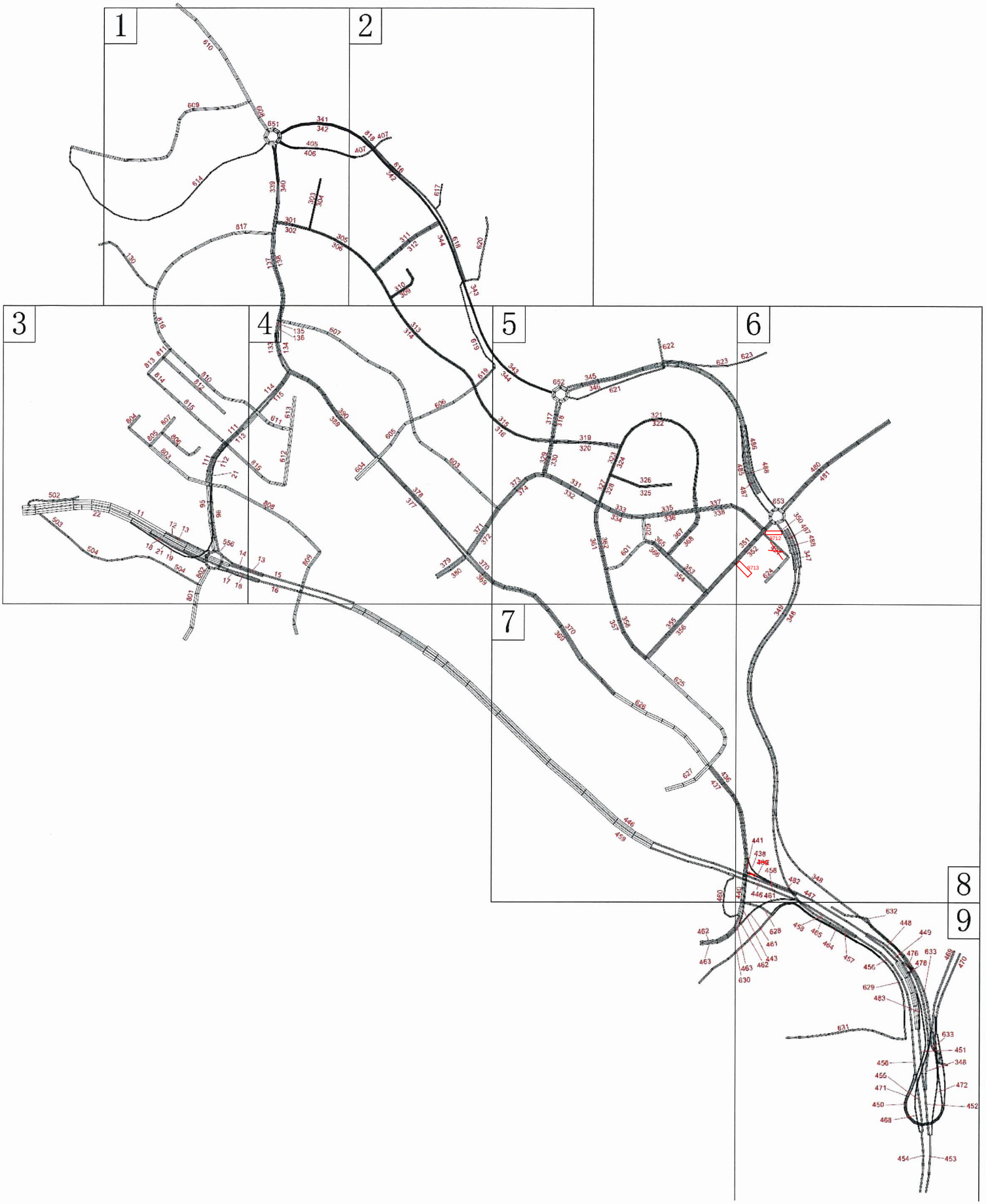


Figure 7

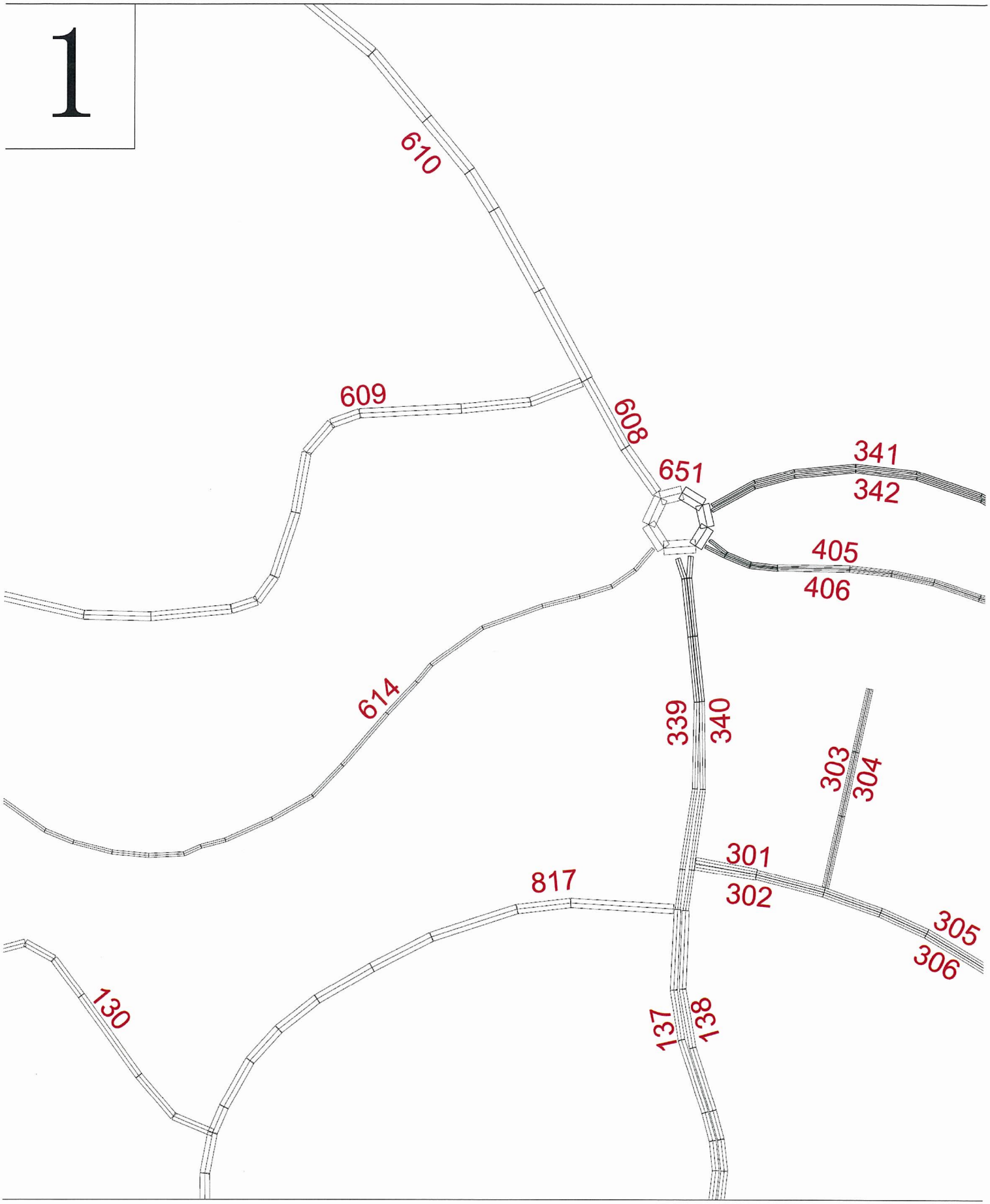

1
610
609
608
651
341
342
405
406
614
339
340
303
304
301
302
817
305
306
130
137
138

Figure 8

2

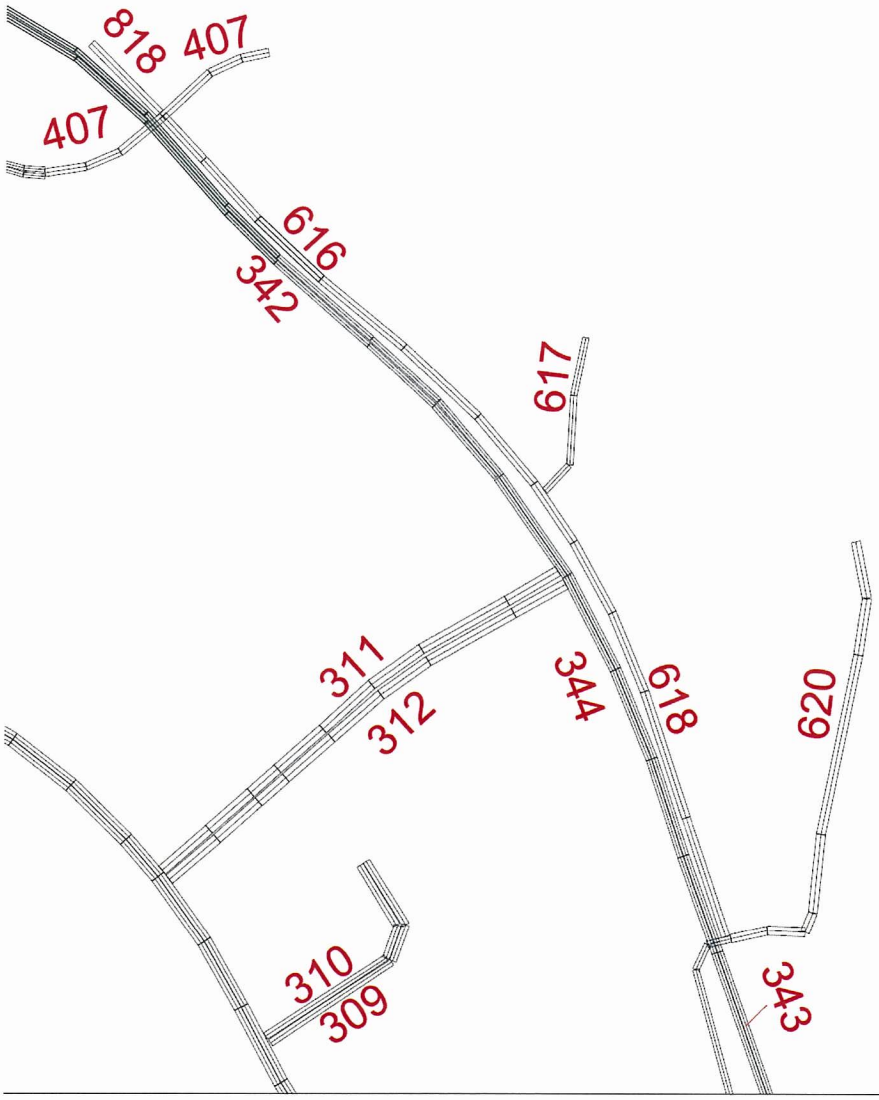


Figure 9

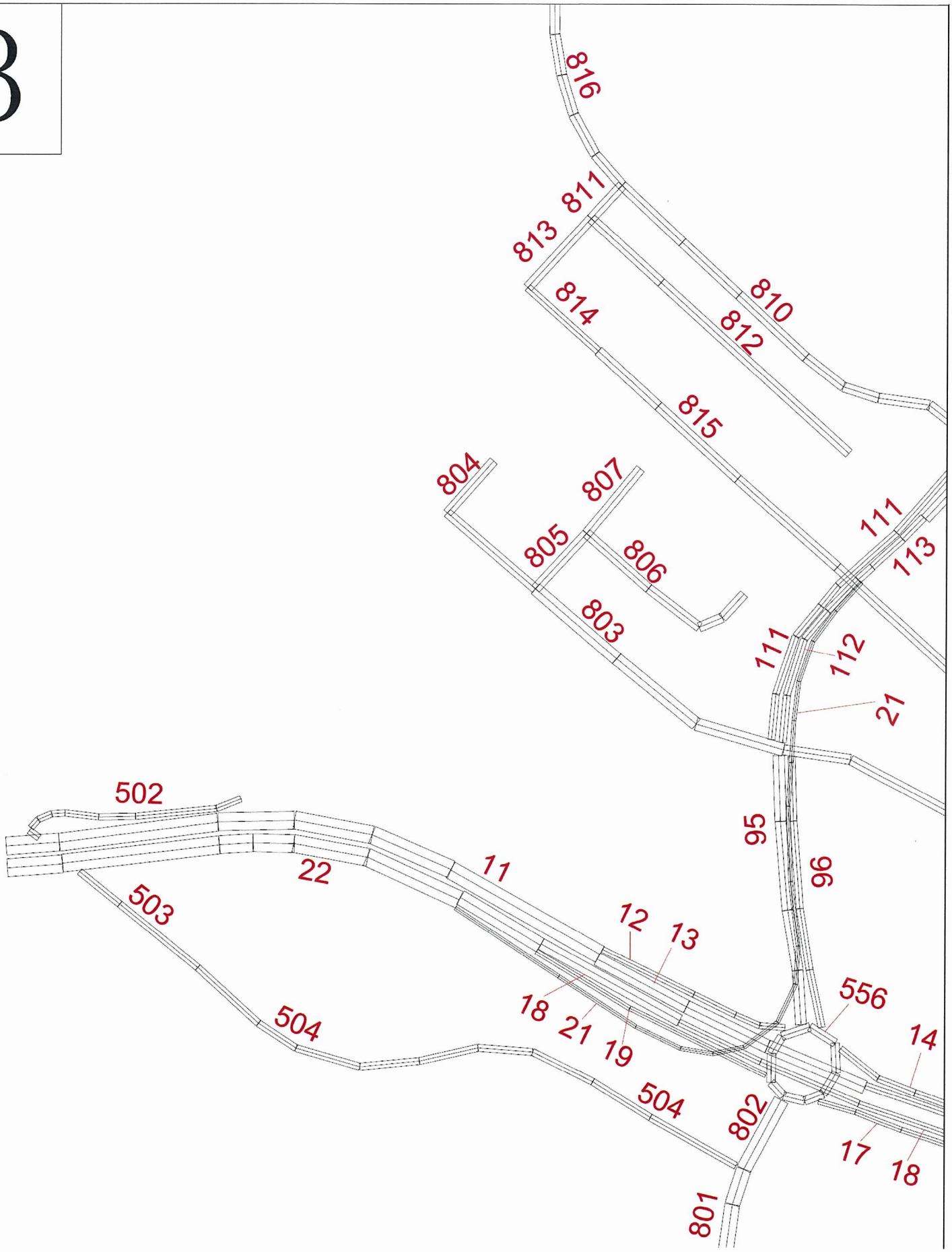

816
811
813
810
814
812
815
804
807
111
805
806
113
803
111
112
21
502
95
22
11
96
503
12
13
556
18
21
19
14
504
504
802
17
18
801

Figure 10

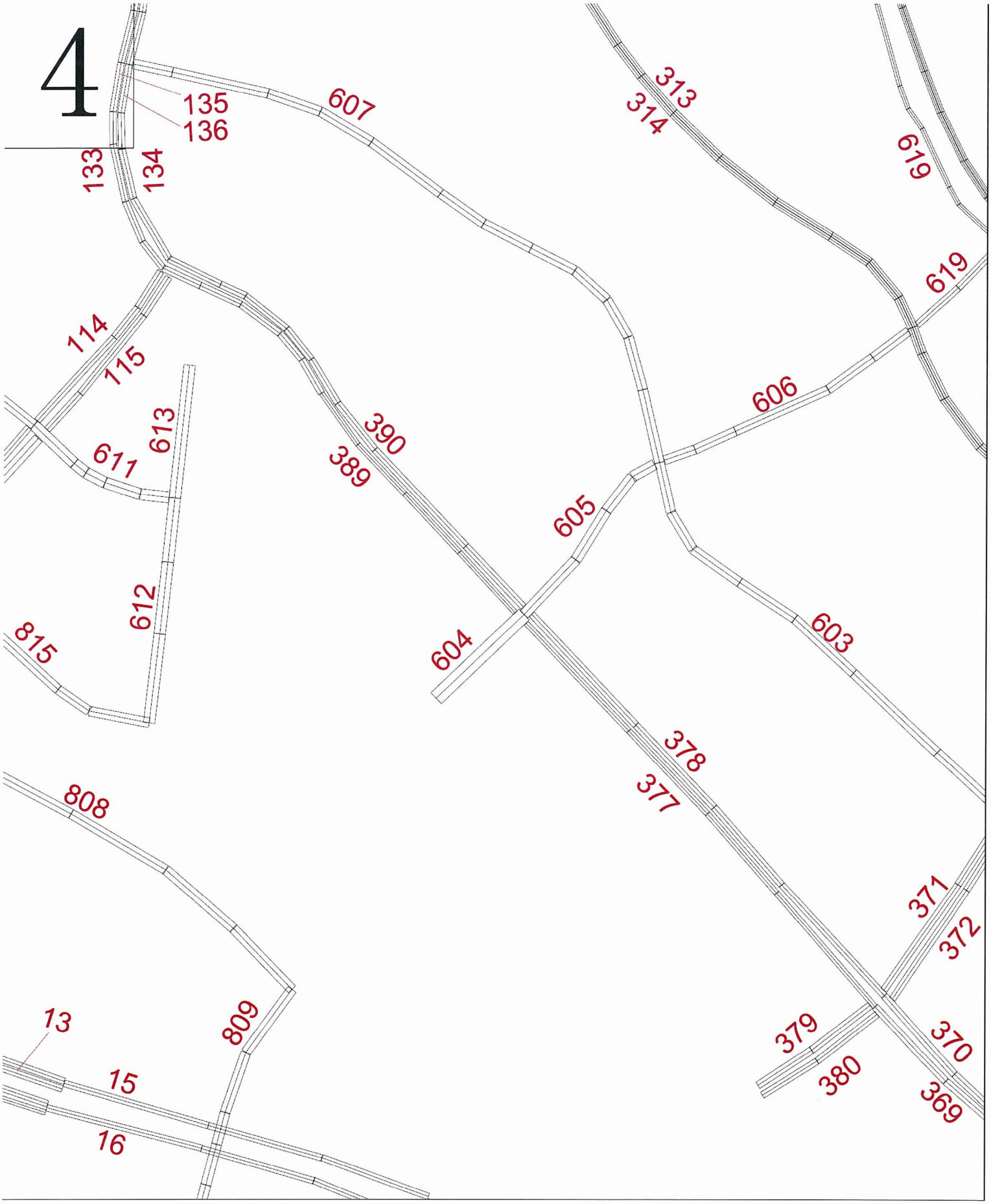

4
135
136
607
313
314
619
133
134
619
114
115
606
613
611
390
389
605
612
815
604
603
378
377
808
371
372
809
13
379
370
15
380
369
16

Figure 11

5

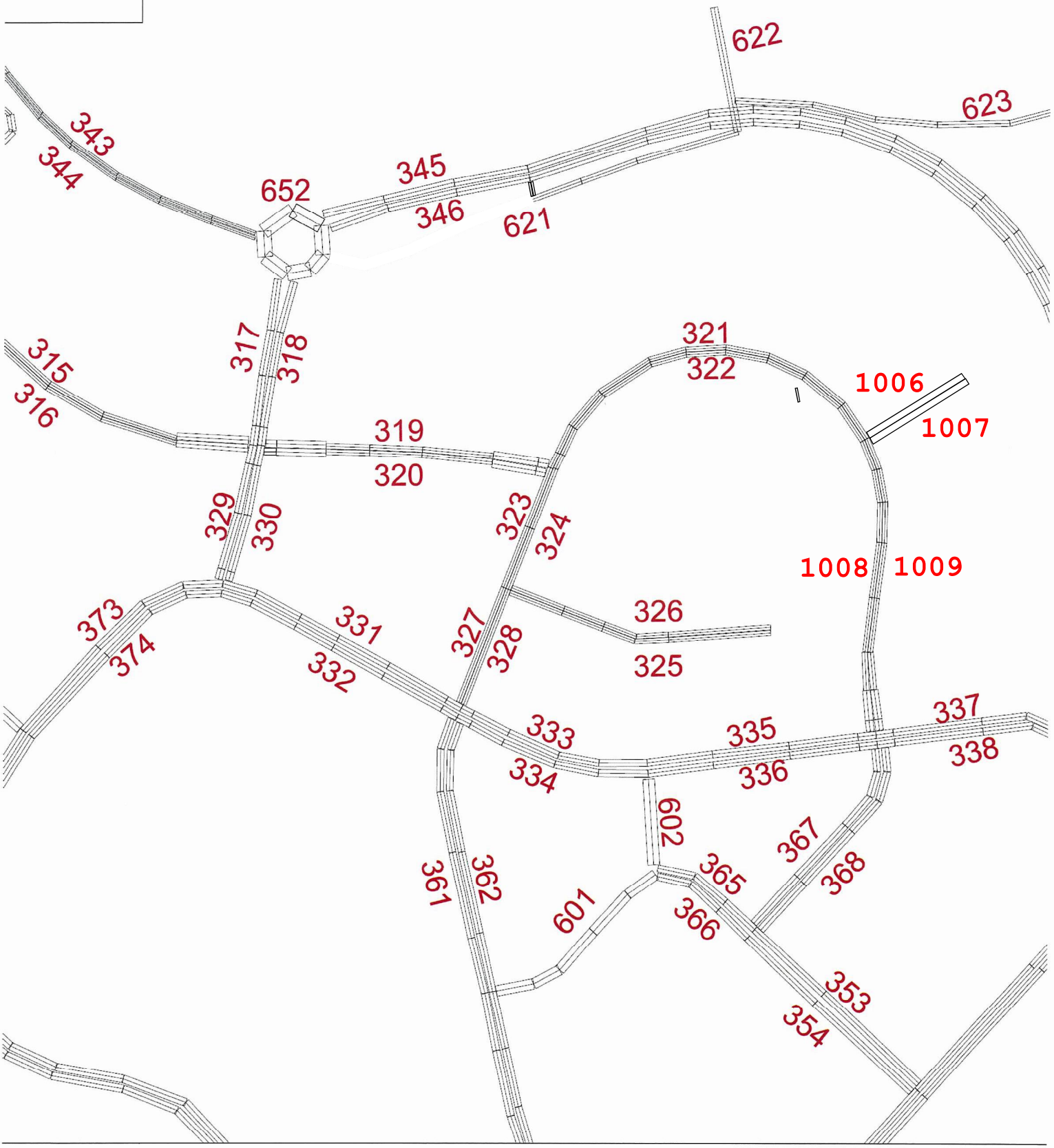

622
623
343
344
345
346
652
621
315
316
317
318
319
320
321
322
1006
1007
1008
1009
323
324
326
325
329
330
327
328
331
332
373
374
333
334
335
336
337
338
602
601
361
362
365
366
367
368
353
354

Figure 12

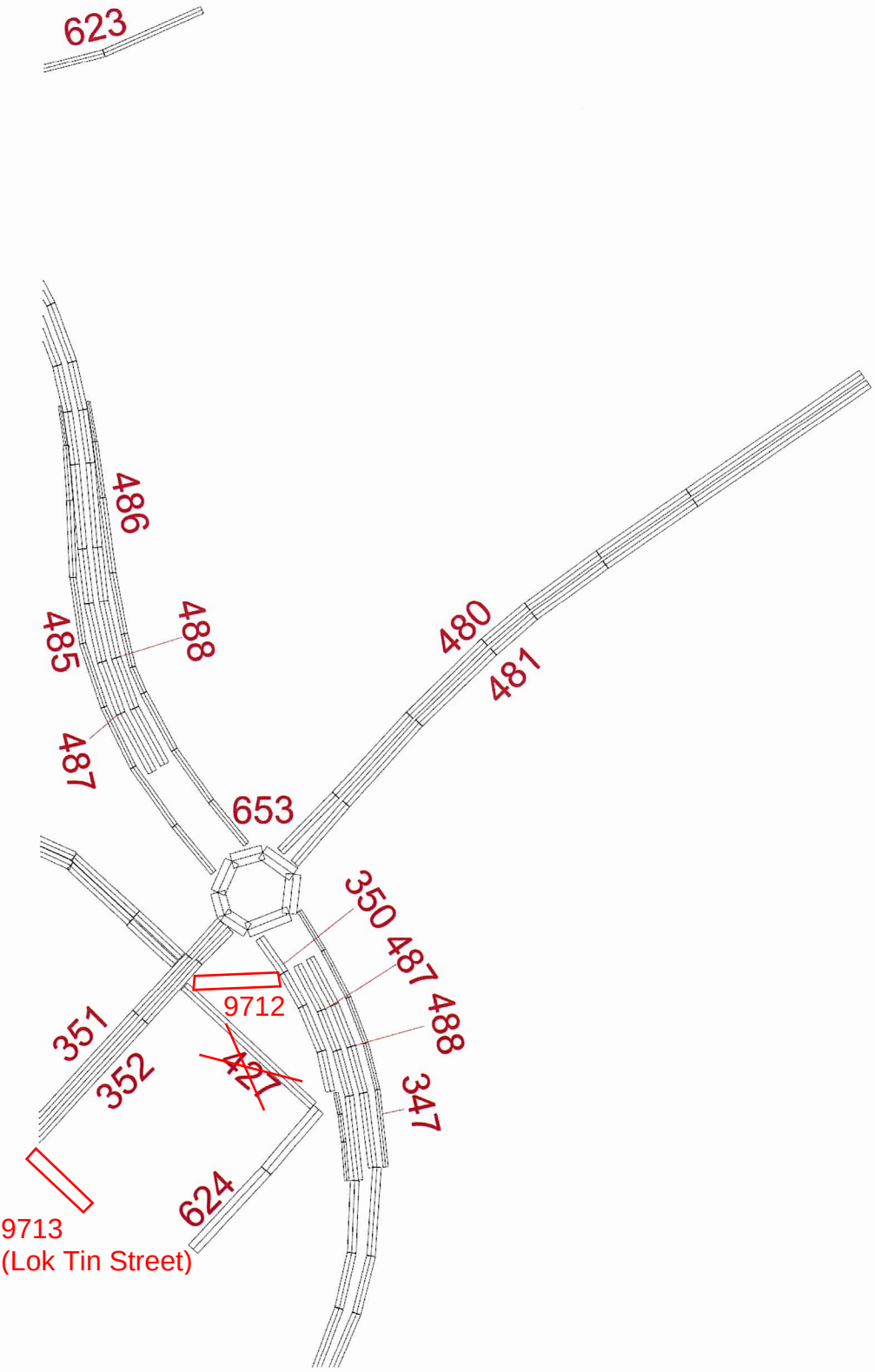

623
486
485
488
480
481
487
653
350
487
488
9712
351
352
347
624
9713
(Lok Tin Street)

Figure 13

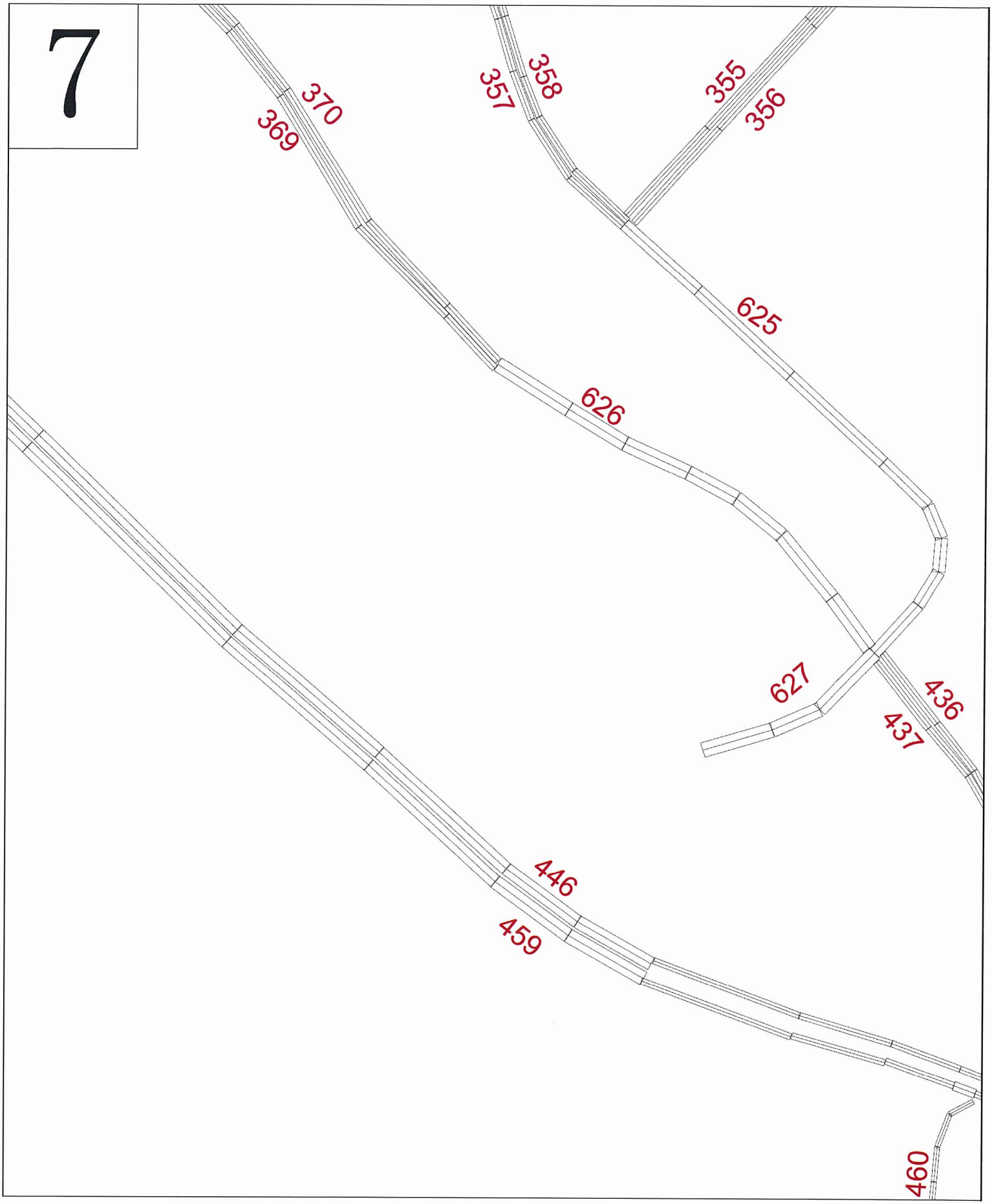


Figure 14

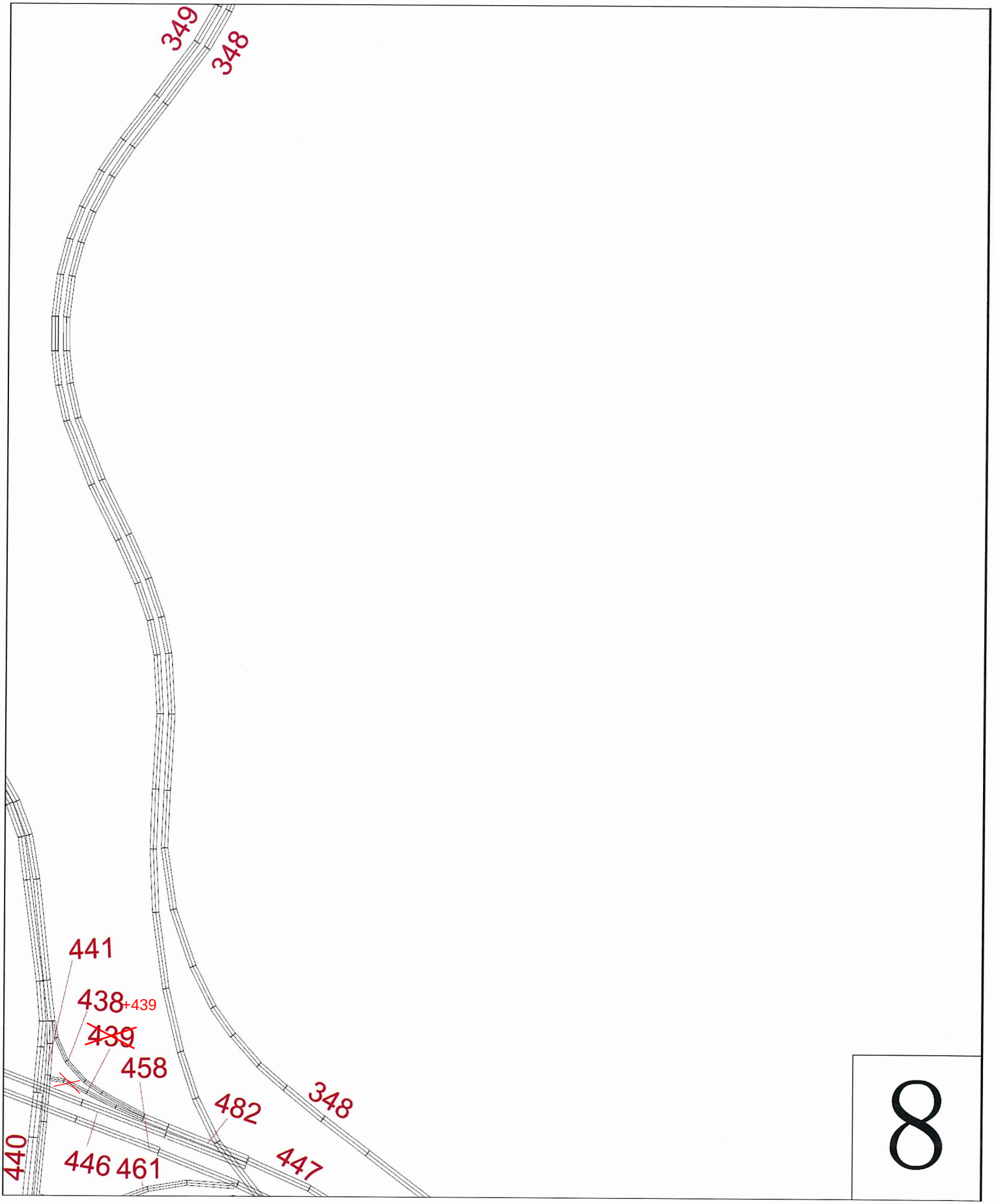


Figure 15


9
446
348
482
628
448
469
632
1002
1003
1005
633
1004
1010
462
458
457
465
464
9714
9715
456
449
470
463
443
461
630
1011
629
483
631
455
450
471
468
472
452
454
453

FIGURE 16

2044 Traffic Flows and Breakdown by 2 Vehicle Classes

Link No.	Total Vehicle	Total Vehicle	Heavy Vehicle%	Heavy Vehicle%	Speed Limit
	AM	PM	AM	PM	
4	1048	1139	13.0%	17.8%	50
5	4441	3870	30.8%	35.8%	100
6	463	320	30.8%	31.0%	50
7	4904	4190	30.8%	35.4%	100
8	498	264	8.0%	13.6%	50
9	4406	3926	33.4%	36.9%	100
10	1278	951	19.9%	21.4%	50
11	5684	4878	30.4%	33.9%	100
12	1443	1191	27.5%	36.9%	50
13	4241	3687	31.3%	32.9%	100
14	1153	935	28.6%	27.9%	50
15	5394	4622	30.8%	31.9%	100
16	4935	4764	30.3%	30.7%	100
17	673	790	31.9%	39.7%	50
18	4262	3974	30.1%	29.0%	100
19	765	637	28.3%	22.4%	50
20	5027	4611	29.8%	28.0%	100
21	916	975	31.4%	31.6%	50
22	5942	5587	30.1%	28.7%	100
23	1349	1176	23.0%	17.3%	50
24	4593	4410	32.1%	31.7%	100
25	586	394	12.4%	12.9%	50
26	5179	4804	29.9%	30.2%	100
27	772	637	31.4%	25.8%	50
28	4407	4167	29.6%	30.8%	100
33	587	700	13.9%	16.0%	50
35	167	177	31.3%	29.2%	50
36	268	251	21.5%	24.5%	50
37	20	11	27.1%	18.2%	50
38	85	127	12.1%	15.8%	50
39	207	194	26.8%	27.2%	50
40	243	151	23.0%	29.5%	50
41	443	315	31.3%	32.7%	50
42	516	449	14.4%	18.5%	50
43	659	697	15.5%	18.6%	50
44	717	634	15.6%	16.0%	50
45	230	232	17.0%	16.8%	50
46	257	187	14.3%	15.8%	50
47	496	395	20.0%	24.0%	50
48	427	449	24.5%	20.2%	50
49	155	142	14.5%	14.5%	50
50	201	102	14.9%	17.5%	50
51	134	48	13.8%	13.6%	50
52	130	74	13.3%	14.3%	50
53	551	337	21.5%	26.8%	50
54	388	495	28.0%	20.2%	50
55	1228	909	22.1%	18.1%	50
56	1198	835	20.7%	23.0%	50
57	1847	1440	18.9%	16.6%	50
58	1864	1345	17.5%	19.0%	50
59	153	96	13.8%	13.6%	50
60	93	132	13.3%	14.3%	50
61	225	167	16.9%	17.9%	50
62	180	200	22.9%	19.3%	50
63	670	587	14.9%	15.1%	50
64	670	586	15.9%	16.4%	50
65	157	220	13.4%	14.4%	50
66	261	163	13.8%	13.6%	50
67	250	293	13.8%	13.6%	50

2044 Traffic Flows and Breakdown by 2 Vehicle Classes

Link No.	Total Vehicle	Total Vehicle	Heavy Vehicle%	Heavy Vehicle%	Speed Limit
	AM	PM	AM	PM	
68	399	201	13.3%	14.3%	50
69	189	195	17.1%	16.9%	50
70	204	192	21.6%	18.6%	50
73	443	315	31.3%	32.7%	50
74	516	449	14.4%	18.5%	50
75	201	153	20.4%	26.7%	50
76	120	53	31.3%	42.9%	50
77	201	153	20.4%	26.7%	50
78	120	53	31.3%	42.9%	50
79	79	72	47.0%	48.8%	50
80	90	82	45.6%	44.6%	50
81	303	313	27.0%	22.8%	50
82	447	300	18.5%	23.2%	50
83	453	323	24.5%	32.3%	50
84	327	336	36.8%	30.3%	50
95	1933	1817	29.7%	43.2%	50
96	1372	1332	39.1%	35.8%	50
111	1564	1350	33.1%	44.4%	50
112	795	730	45.0%	43.5%	50
113	1710	1705	37.7%	36.7%	50
114	902	697	34.9%	48.8%	50
115	1135	1085	33.7%	38.0%	50
130	38	0	9.2%	0.0%	50
133	954	701	34.2%	49.2%	50
134	1188	970	30.6%	35.7%	50
135	1029	656	30.6%	46.9%	50
136	1188	970	30.6%	35.7%	50
137	846	543	32.2%	47.1%	50
138	975	684	31.2%	37.5%	50
139	239	93	10.8%	16.6%	50
140	127	119	26.3%	22.5%	50
141	181	78	10.5%	16.6%	50
142	93	107	34.1%	23.2%	50
145	554	279	14.5%	12.4%	50
146	247	398	18.0%	15.6%	50
147	549	293	17.6%	14.6%	50
148	270	416	13.9%	15.0%	50
149	306	256	14.0%	19.5%	50
150	348	235	18.0%	17.3%	50
151	98	97	13.3%	14.3%	50
152	144	74	13.8%	13.6%	50
157	153	128	14.0%	19.5%	50
158	174	118	18.0%	17.3%	50
159	174	118	18.0%	17.3%	50
160	153	128	14.0%	19.5%	50
161	306	256	14.0%	19.5%	50
162	348	235	18.0%	17.3%	50
163	170	94	18.1%	23.2%	50
164	110	127	23.0%	21.0%	50
183	1017	622	24.5%	18.2%	50
184	478	265	16.6%	25.1%	50
301	330	202	15.5%	20.1%	50
302	382	249	17.1%	18.3%	50
303	94	103	16.6%	14.9%	50
304	120	86	13.1%	13.3%	50
305	275	152	16.4%	22.3%	50
306	300	216	19.7%	19.8%	50
309	187	116	18.3%	22.4%	50
310	150	137	21.5%	22.5%	50

2044 Traffic Flows and Breakdown by 2 Vehicle Classes

Link No.	Total Vehicle	Total Vehicle	Heavy Vehicle%	Heavy Vehicle%	Speed Limit
	AM	PM	AM	PM	
311	143	69	10.8%	24.0%	50
312	113	146	25.0%	16.0%	50
313	91	43	46.3%	65.4%	50
314	140	73	38.9%	55.0%	50
315	167	116	34.9%	30.9%	50
316	140	90	28.6%	43.9%	50
317	655	474	21.3%	25.8%	50
318	418	513	28.4%	27.4%	50
319	524	446	22.1%	22.2%	50
320	383	256	16.7%	17.1%	50
321	440	354	23.3%	25.6%	50
322	330	236	15.9%	16.7%	50
323	126	69	20.3%	26.4%	50
324	183	133	14.7%	12.8%	50
325	321	190	15.1%	14.3%	50
326	243	216	24.5%	24.3%	50
327	256	231	26.0%	28.3%	50
328	434	255	14.7%	14.6%	50
329	729	556	13.8%	20.8%	50
330	411	424	17.2%	18.9%	50
331	410	333	28.5%	32.5%	50
332	535	515	22.0%	24.6%	50
333	115	70	33.8%	34.2%	50
334	154	159	50.0%	40.7%	50
335	75	73	37.2%	39.0%	50
336	74	80	73.6%	46.8%	50
337	400	331	25.3%	26.7%	50
338	259	265	43.9%	34.5%	50
339	413	271	56.3%	73.3%	50
340	414	443	58.5%	48.1%	50
341	253	254	53.1%	54.7%	50
342	264	243	41.3%	54.5%	50
343	395	322	37.8%	48.1%	50
344	376	388	36.3%	40.0%	50
345	891	680	32.6%	37.1%	80
346	635	785	35.0%	31.5%	80
347	1074	714	20.5%	30.6%	50
348	1422	885	23.0%	33.3%	80
349	949	1099	37.4%	35.1%	80
350	585	760	35.4%	37.9%	50
351	886	700	35.8%	32.2%	50
352	914	888	33.0%	29.0%	50
353	620	439	47.7%	41.3%	50
354	632	471	39.0%	41.7%	50
355	957	690	30.9%	31.8%	50
356	972	846	34.0%	27.9%	50
357	678	484	40.9%	44.2%	50
358	534	516	50.2%	51.9%	50
361	207	295	32.7%	33.2%	50
362	300	226	24.6%	33.9%	50
365	286	232	48.5%	46.0%	50
366	168	135	63.2%	65.5%	50
367	609	556	49.6%	49.4%	50
368	5	1	11.4%	16.6%	50
369	623	739	33.1%	30.0%	50
370	486	446	46.5%	41.9%	50
371	1247	1086	25.8%	30.5%	50
372	991	861	19.5%	21.6%	50
373	1025	817	24.0%	27.1%	50

2044 Traffic Flows and Breakdown by 2 Vehicle Classes

Link No.	Total Vehicle	Total Vehicle	Heavy Vehicle%	Heavy Vehicle%	Speed Limit
	AM	PM	AM	PM	
374	832	867	20.6%	20.8%	50
377	329	351	50.3%	41.6%	50
378	343	361	45.1%	41.4%	50
379	1737	1546	29.3%	34.0%	50
380	1266	1204	20.2%	21.1%	50
389	506	484	49.4%	42.4%	50
390	274	255	40.4%	47.9%	50
405	18	24	44.0%	70.3%	50
406	17	27	58.6%	39.8%	50
407	35	51	51.0%	54.2%	50
427	110	102	30.3%	34.3%	50
436	1267	1173	41.2%	34.4%	50
437	1470	1373	32.7%	36.0%	50
438	921	810	37.2%	26.2%	50
439	688	305	34.5%	34.5%	50
440	2157	1678	33.3%	35.8%	50
441	355	368	52.1%	49.2%	50
443	239	243	52.7%	50.9%	50
446	4374	3492	31.4%	29.7%	100
447	5815	4607	32.7%	29.4%	100
448	1776	1272	41.8%	35.4%	50
449	3946	3254	29.0%	27.2%	100
450	445	247	52.4%	63.0%	80
452	6663	5146	29.8%	28.6%	100
453	7156	5979	33.7%	33.0%	100
454	6224	6562	36.8%	39.3%	100
455	5641	5889	32.9%	35.3%	100
456	6072	6192	33.5%	36.1%	100
457	949	1099	37.4%	35.1%	80
458	4814	4572	32.4%	36.2%	100
459	3961	3791	32.6%	36.7%	100
460	853	780	31.7%	33.6%	50
461	309	521	37.6%	37.5%	50
462	665	584	49.1%	46.5%	50
463	547	765	44.2%	41.8%	50
464	166	170	41.5%	34.6%	50
465	424	340	24.9%	27.1%	50
468	583	673	74.4%	74.8%	80
469	1028	920	64.9%	71.7%	80
470	924	1137	65.7%	58.2%	80
471	431	304	40.9%	52.3%	80
472	493	834	87.3%	60.4%	80
480	1697	1657	35.4%	35.8%	50
481	1746	1521	27.5%	32.2%	50
482	1348	1034	38.2%	28.9%	50
483	1294	1007	39.6%	29.1%	50
485	197	313	29.1%	34.0%	50
486	543	509	35.3%	32.8%	50
487	424	462	38.0%	30.0%	80
488	348	171	30.7%	44.8%	80
501	781	659	29.7%	31.3%	50
502	164	120	29.4%	23.5%	50
503	773	668	32.7%	31.5%	50
504	1030	884	28.6%	27.1%	50
508	717	520	17.7%	20.5%	50
515	734	476	15.7%	15.8%	50
516	279	306	23.4%	30.2%	50
551	1343	1251	18.3%	20.2%	50
552	1855	1392	18.2%	17.8%	50

2044 Traffic Flows and Breakdown by 2 Vehicle Classes

Link No.	Total Vehicle	Total Vehicle	Heavy Vehicle%	Heavy Vehicle%	Speed Limit
	AM	PM	AM	PM	
553	1930	1468	18.6%	18.0%	50
554	1246	966	18.4%	17.0%	50
556	2348	2170	31.0%	34.2%	50
557	1017	622	24.5%	18.2%	50
558	478	265	16.6%	25.1%	50
601	366	360	60.5%	55.0%	50
602	221	274	26.1%	25.6%	50
603	445	398	34.1%	32.3%	50
604	670	598	49.4%	47.9%	50
605	492	394	47.0%	43.7%	50
606	215	207	34.6%	36.7%	50
607	553	194	25.2%	38.9%	50
608	1275	1123	52.4%	55.0%	50
609	39	24	85.8%	83.0%	50
610	1236	1099	51.3%	54.4%	50
611	917	899	45.0%	43.8%	50
612	532	502	52.8%	56.2%	50
613	419	434	34.8%	27.2%	50
614	13	15	73.4%	93.1%	50
616	37	30	13.7%	16.8%	50
617	37	30	13.7%	16.8%	50
618	75	60	13.7%	16.8%	50
619	149	119	13.7%	16.8%	50
620	75	60	13.7%	16.8%	50
621	22	10	20.8%	26.8%	50
622	11	5	20.8%	26.8%	50
623	11	5	20.8%	26.8%	50
624	113	120	29.1%	40.5%	50
625	1259	872	33.0%	34.1%	50
626	989	861	35.9%	31.3%	50
627	832	820	39.6%	36.1%	50
628	756	439	23.8%	28.1%	50
629	624	485	27.1%	26.0%	50
630	640	353	27.7%	38.2%	50
631	825	652	21.2%	20.0%	50
632	30	28	30.3%	27.4%	50
633	185	166	26.9%	21.3%	50
651	667	600	53.0%	55.9%	50
652	842	790	32.3%	34.3%	50
653	1992	1809	30.3%	32.8%	50
700	1050	1021	21.3%	20.7%	50
795	36	34	40.6%	20.2%	50
796	30	44	29.2%	29.2%	50
797	36	34	40.6%	20.2%	50
798	30	44	29.2%	29.2%	50
801	1299	1296	29.0%	26.2%	50
802	2052	1979	31.2%	28.0%	50
803	689	642	31.5%	33.7%	50
804	345	321	31.5%	33.7%	50
805	345	321	31.5%	33.7%	50
806	172	160	31.5%	33.7%	50
807	172	160	31.5%	33.7%	50
808	1624	1468	21.0%	26.7%	50
809	982	736	25.5%	34.2%	50
810	598	612	41.6%	38.2%	50
811	197	181	37.8%	32.1%	50
812	98	90	37.8%	32.1%	50
813	197	181	37.8%	32.1%	50
814	290	246	35.5%	31.9%	50

2044 Traffic Flows and Breakdown by 2 Vehicle Classes

Link No.	Total Vehicle	Total Vehicle	Heavy Vehicle%	Heavy Vehicle%	Speed Limit
	AM	PM	AM	PM	
815	330	203	29.3%	32.0%	50
816	426	228	24.4%	34.7%	50
817	322	57	21.3%	44.9%	50
818	37	30	13.7%	16.8%	50
963	361	407	21.5%	14.5%	50
964	1006	695	15.7%	19.3%	50
971	94	97	34.4%	38.9%	50
972	375	140	26.5%	23.3%	50
999	4994	4867	27.8%	28.7%	100
1000	897	616	23.6%	23.0%	50
1001	1022	628	24.5%	25.6%	50
1002	125	106	21.9%	21.0%	50
1003	89	88	35.1%	23.6%	50
1004	163	116	64.5%	41.9%	50
1005	74	28	100.0%	100.0%	50
1006	215	207	24.4%	24.2%	50
1007	280	185	15.1%	14.3%	50
1008	167	185	34.7%	29.3%	50
1009	496	246	20.0%	22.0%	50
1010	1577	1138	40.6%	35.1%	50
1011	1739	1254	42.9%	35.7%	50
9100	5489	5008	27.4%	31.7%	100
9102	1625	1351	26.8%	27.8%	50
9103	3927	3951	27.2%	28.4%	100
9104	3864	3657	27.7%	33.2%	100
9105	385	768	65.4%	57.6%	50
9106	610	536	11.9%	8.1%	50
9107	1582	1970	38.1%	36.5%	50
9108	2111	1139	24.7%	25.6%	50
9221	578	247	25.0%	48.8%	50
9222	261	64	11.7%	23.6%	50
9225	578	247	25.0%	48.8%	50
9226	261	64	11.7%	23.6%	50
9228	25	35	100.0%	100.0%	50
9233	578	247	25.0%	48.8%	50
9234	261	64	11.7%	23.6%	50
9236	512	233	23.4%	47.0%	50
9237	372	155	17.4%	63.3%	50
9240	538	226	27.2%	44.9%	50
9241	373	156	20.9%	60.5%	50
9242	325	404	22.0%	20.3%	50
9243	477	520	23.1%	24.9%	50
9244	379	165	20.6%	57.1%	50
9245	393	120	27.6%	45.7%	50
9246	1649	1686	38.8%	41.0%	50
9247	356	300	45.7%	59.3%	50
9248	641	607	40.4%	37.5%	50
9249	170	134	38.0%	36.7%	50
9250	113	148	42.4%	59.0%	50
9251	243	152	47.3%	59.7%	50
9252	471	473	41.3%	37.7%	50
9253	1706	824	20.4%	19.1%	50
9254	302	245	23.7%	19.7%	50
9255	5559	4638	27.5%	33.6%	100
9256	5413	5417	30.7%	32.2%	100
9301	156	202	100.0%	100.0%	50
9302	707	560	34.5%	32.5%	50
9303	186	160	100.0%	100.0%	50
9304	341	363	100.0%	100.0%	50

2044 Traffic Flows and Breakdown by 2 Vehicle Classes

Link No.	Total Vehicle	Total Vehicle	Heavy Vehicle%	Heavy Vehicle%	Speed Limit
	AM	PM	AM	PM	
9402	1045	1015	48.1%	51.0%	50
9403	2122	1711	28.4%	35.7%	50
9404	181	204	21.5%	14.5%	50
9405	181	204	21.5%	14.5%	50
9406	1006	695	15.7%	19.3%	50
9407	393	298	19.1%	18.2%	50
9418	93	117	95.0%	96.1%	50
9419	1045	1015	48.1%	51.0%	50
9607	414	808	30.4%	19.9%	50
9608	1059	860	18.4%	24.4%	50
9609	152	69	21.9%	84.4%	50
9614	160	125	100.0%	100.0%	50
9620	1777	1384	27.2%	34.1%	50
9624	775	1215	26.2%	18.1%	50
9650	230	304	18.3%	11.4%	50
9651	727	664	28.7%	40.7%	50
9652	599	527	21.0%	32.6%	50
9653	128	137	64.6%	72.0%	50
9700	166	177	55.1%	65.3%	50
9701	211	248	61.0%	47.2%	50
9702	338	205	42.2%	46.1%	50
9703	67	49	33.0%	23.4%	50
9704	1404	579	19.7%	18.9%	50
9705	1256	1566	42.3%	40.6%	50
9706	382	312	24.5%	24.1%	50
9707	641	508	46.2%	53.9%	50
9708	1395	1047	28.3%	32.6%	50
9709	4834	4742	25.4%	26.8%	100
9710	141	108	43.8%	59.3%	50
9711	672	500	24.4%	14.5%	50
9712	102	131	35.4%	37.9%	50
9713	95	66	35.4%	37.9%	50
9714	166	101	15.5%	14.5%	50
9715	147	125	13.8%	16.6%	50

[BLANK]

Approval from Transport Department on Traffic Data

Tong, Ka Ling Angela

From: Chun Wing YAU <chunwingyau@td.gov.hk>
Sent: Thursday, August 13, 2015 11:07 AM
To: Kwok, Shi Chung Colin
Cc: Tony KT YAU; Winnie WS WONG; Tony KK WU
Subject: TPD's Reply: [Confidential] CE13_2014_Technical Note - Traffic Modelling Methodology and Assumptions for TIA

Dear Colin,

As the previous comment of our Transport Planning Division have been addressed, we have no further comment on the traffic modelling methodology and assumptions.

We would like to provide comment on the traffic forecast being prepared.

Thank you.

Regards,
YAU Chun Wing
E/TP4, TPD, TD
Tel: 2829 5296

From: "Kwok, Shi Chung Colin" <Colin.Kwok@aecom.com>
To: "'tonyktyau@td.gov.hk'" <tonyktyau@td.gov.hk>, "'sets1.rdo@hyd.gov.hk'" <sets1.rdo@hyd.gov.hk>, "'rycfung@pland.gov.hk'" <rycfung@pland.gov.hk>, "'tonywu@td.gov.hk'" <tonywu@td.gov.hk>, "'wwong@td.gov.hk'" <wwong@td.gov.hk>, Chun Wing YAU <chunwingyau@td.gov.hk>,
Cc: "'mtlaw@cedd.gov.hk'" <mtlaw@cedd.gov.hk>, "'kmmak@cedd.gov.hk'" <kmmak@cedd.gov.hk>, "'wmtang@cedd.gov.hk'" <wmtang@cedd.gov.hk>, "Lai, Yee Yan Stephen" <stephen.lai@aecom.com>, "Ching, Chin Fun Stephen" <Stephen.Ching@aecom.com>, "Cheek, Peter Michael" <peter.cheek@aecom.com>, "Mak, Eunice Hoi Cheung" <Eunice.Mak@aecom.com>, "Leung, Ebby" <Ebby.Leung@aecom.com>, "Tam, Ka Wai Janice" <janice.tam@aecom.com>, "Yeung, Ka Wing Eric" <Eric.KW.Yeung@aecom.com>, "Tong, Ka Ling Angela" <angela.tong@aecom.com>, "Ho, Yung Chi Chris" <chris.ho@aecom.com>
Date: 05/08/2015 17:25
Subject: RE: [Confidential] CE13_2014_Technical Note - Traffic Modelling Methodology and Assumptions for TIA

Dear All,

Further to the submission of the Technical Note (TN) for Traffic Modelling Methodology and Assumptions for TIA on 22 July 2015 new /additional comments were received from Transport Planning Division and Traffic Engineering (NTE) of Transport Department on 27 July 2015.

In view of the importance of the comment to the P&E Review Study of this Study, a meeting was held at TPD office on 4 Aug 2015 to discuss the growth rate assumption for car fleet size from 2016 to 2036. It was agreed in the meeting that the new growth rate assumption as advised by TD shall be adopted in this Study.

The TN is revised and attached for download via hyperlink below. Please provide comment, if any, on or before 7 August 2015.

This file will be available for download until 8/12/2015

File	Description	Size
TN Traffic Modelling Approach and Assumptions Final Revision 1.pdf		20,605KB
Download all files (.zip)		

Appendix 2.2

Computer Plot of Road Scheme

[BLANK]




LEGEND:
Existing Roads / Other Roads
New Roads (Primary Distribution Road)
New Roads (District Distribution Road)
New Roads (Local Distribution Road)
New Roads (Expressway)
New Roads (Trunk Roads)

Appendix 2.3

Details of Road Traffic Noise Impacts on NSRs (Unmitigated Scenario - FLN) at Year 2044

[BLANK]

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N4155	1	7.0	FN-8	50.5	49.8	0.0	64.8	67.6	58.3	0.0	0.0	69.7	69.8	70	N	19.3	Y	20.0	Y	N	N
N4155	2	10.0	FN-8	-	49.8	0.0	67.5	67.7	59.2	0.0	0.0	70.9	70.9	70	Y	-	-	21.1	Y	Y	Y
N4156	1	7.0	FN-8	50.5	47.6	0.0	64.3	75.2	65.7	0.0	0.0	75.9	75.9	65	Y	25.4	Y	28.3	Y	Y	Y
N4432	1	26.4	Green Code	69.8	65.1	0.0	68.3	0.0	21.4	0.0	0.0	68.3	70.0	70	N	0.2	N	4.9	Y	N	N
N4432	2	34.0	Green Code	75.6	73.6	0.0	70.1	0.0	21.4	0.0	0.0	70.1	75.2	70	Y	-0.4	N	1.6	Y	N	Y
N4432	3	37.1	Green Code	75.4	73.4	0.0	70.0	0.0	21.4	0.0	0.0	70.0	75.0	70	Y	-0.4	N	1.6	Y	N	Y
N4432	4	40.2	Green Code	75.1	73.2	0.0	69.9	0.0	21.4	0.0	0.0	69.9	74.9	70	Y	-0.2	N	1.7	Y	N	Y
N4432	5	43.3	Green Code	74.9	72.9	0.0	69.9	0.0	21.4	0.0	0.0	69.9	74.7	70	Y	-0.2	N	1.8	Y	N	Y
N4432	6	46.4	Green Code	74.6	72.7	0.0	69.7	0.0	21.4	0.0	0.0	69.7	74.5	70	Y	-0.1	N	1.8	Y	N	Y
N4432	7	49.5	Green Code	74.4	72.4	0.0	69.7	0.0	21.5	0.0	0.0	69.7	74.3	70	Y	-0.1	N	1.9	Y	N	Y
N4432	8	52.6	Green Code	74.1	72.2	0.0	69.6	0.0	21.5	0.0	0.0	69.6	74.1	70	Y	0.0	N	1.9	Y	N	Y
N4432	9	55.7	Green Code	73.9	72.0	0.0	69.5	0.0	21.6	0.0	0.0	69.5	73.9	70	Y	0.0	N	1.9	Y	N	Y
N4432	10	58.8	Green Code	73.7	71.8	0.0	69.4	0.0	21.6	0.0	0.0	69.4	73.8	70	Y	0.1	N	2.0	Y	N	Y
N4432	11	61.9	Green Code	73.5	71.6	0.0	69.3	0.0	21.7	0.0	0.0	69.3	73.6	70	Y	0.1	N	2.0	Y	N	Y
N4432	12	65.0	Green Code	73.3	71.5	0.0	69.3	0.0	21.8	0.0	0.0	69.3	73.5	70	Y	0.2	N	2.0	Y	N	Y
N4432	13	68.1	Green Code	73.1	71.3	0.0	69.2	0.0	21.9	0.0	0.0	69.2	73.4	70	Y	0.3	N	2.1	Y	N	Y
N4432	14	71.2	Green Code	73	71.2	0.0	69.1	0.0	22.2	0.0	0.0	69.1	73.3	70	Y	0.3	N	2.1	Y	N	Y
N4432	15	74.3	Green Code	72.8	71.1	0.0	69.0	0.0	22.6	0.0	0.0	69.0	73.2	70	Y	0.4	N	2.1	Y	N	Y
N4432	16	77.4	Green Code	72.6	70.9	0.0	69.0	0.0	23.1	0.0	0.0	69.0	73.1	70	Y	0.5	N	2.2	Y	N	Y
N4432	17	80.5	Green Code	72.4	70.7	0.0	69.0	0.0	23.6	0.0	0.0	69.0	73.0	70	Y	0.6	N	2.3	Y	N	Y
N4432	18	83.6	Green Code	72.2	70.6	0.0	69.0	0.0	24.2	0.0	0.0	69.0	72.9	70	Y	0.7	N	2.3	Y	N	Y
N4432	19	86.7	Green Code	72.1	70.4	0.0	69.0	0.0	24.9	0.0	0.0	69.0	72.8	70	Y	0.7	N	2.4	Y	N	Y
N4432	20	89.8	Green Code	71.9	70.3	0.0	69.1	0.0	25.5	0.0	0.0	69.1	72.7	70	Y	0.8	N	2.4	Y	N	Y
N4432	21	92.9	Green Code	71.8	70.1	0.0	69.1	0.0	26.2	0.0	0.0	69.1	72.7	70	Y	0.9	N	2.6	Y	N	Y
N4432	22	96.0	Green Code	71.6	70.0	0.0	69.0	0.0	26.9	0.0	0.0	69.1	72.5	70	Y	0.9	N	2.5	Y	N	Y
N4432	23	99.1	Green Code	71.5	69.9	0.0	69.0	0.0	27.7	0.0	0.0	69.0	72.5	70	Y	1.0	Y	2.6	Y	N	Y
N4432	24	102.2	Green Code	71.3	69.7	0.0	69.0	0.0	28.5	0.0	0.0	69.0	72.4	70	Y	1.1	Y	2.7	Y	N	Y
N4432	25	105.3	Green Code	71.2	69.6	0.0	68.9	0.0	29.3	0.0	0.0	68.9	72.3	70	Y	1.1	Y	2.7	Y	N	Y
N4432	26	108.4	Green Code	71.1	69.5	0.0	68.9	0.0	30.2	0.0	0.0	68.9	72.2	70	Y	1.1	Y	2.7	Y	N	Y
N4432	27	111.5	Green Code	71	69.3	0.0	68.8	0.0	31.1	0.0	0.0	68.8	72.1	70	Y	1.1	Y	2.8	Y	N	Y
N4432	28	114.6	Green Code	70.9	69.2	0.0	68.8	0.0	32.1	0.0	0.0	68.8	72.0	70	Y	1.1	Y	2.8	Y	N	Y
N4432	29	117.7	Green Code	70.8	69.1	0.0	68.8	0.0	33.1	0.0	0.0	68.8	71.9	70	Y	1.1	Y	2.8	Y	N	Y
N4433	1	26.4	Green Code	68.5	63.6	0.0	63.8	0.0	21.8	0.0	0.0	63.8	66.7	70	N	-1.8	N	3.1	Y	N	N
N4433	2	34.0	Green Code	74	72.1	0.0	67.3	0.0	21.8	0.0	0.0	67.3	73.3	70	Y	-0.7	N	1.2	Y	N	Y
N4433	3	37.1	Green Code	73.9	71.9	0.0	67.2	0.0	21.8	0.0	0.0	67.2	73.2	70	Y	-0.7	N	1.3	Y	N	Y
N4433	4	40.2	Green Code	73.8	71.8	0.0	67.2	0.0	21.8	0.0	0.0	67.2	73.1	70	Y	-0.7	N	1.3	Y	N	Y
N4433	5	43.3	Green Code	73.7	71.7	0.0	67.2	0.0	21.8	0.0	0.0	67.2	73.0	70	Y	-0.7	N	1.3	Y	N	Y
N4433	6	46.4	Green Code	73.6	71.5	0.0	67.1	0.0	21.8	0.0	0.0	67.1	72.9	70	Y	-0.7	N	1.4	Y	N	Y
N4433	7	49.5	Green Code	73.5	71.4	0.0	67.1	0.0	21.8	0.0	0.0	67.1	72.7	70	Y	-0.8	N	1.3	Y	N	Y
N4433	8	52.6	Green Code	73.3	71.2	0.0	67.0	0.0	21.8	0.0	0.0	67.0	72.6	70	Y	-0.7	N	1.4	Y	N	Y
N4433	9	55.7	Green Code	73.1	71.1	0.0	66.9	0.0	21.9	0.0	0.0	66.9	72.5	70	Y	-0.6	N	1.4	Y	N	Y
N4433	10	58.8	Green Code	73	70.9	0.0	66.9	0.0	21.9	0.0	0.0	66.9	72.4	70	Y	-0.6	N	1.5	Y	N	Y
N4433	11	61.9	Green Code	72.8	70.8	0.0	66.9	0.0	22.0	0.0	0.0	66.9	72.3	70	Y	-0.5	N	1.5	Y	N	Y
N4433	12	65.0	Green Code	72.7	70.7	0.0	66.9	0.0	22.1	0.0	0.0	66.9	72.2	70	Y	-0.5	N	1.5	Y	N	Y
N4433	13	68.1	Green Code	72.5	70.6	0.0	66.9	0.0	22.3	0.0	0.0	66.9	72.1	70	Y	-0.4	N	1.5	Y	N	Y
N4433	14	71.2	Green Code	72.4	70.6	0.0	66.9	0.0	22.7	0.0	0.0	66.9	72.1	70	Y	-0.3	N	1.5	Y	N	Y
N4433	15	74.3	Green Code	72.2	70.5	0.0	66.9	0.0	23.1	0.0	0.0	66.9	72.1	70	Y	-0.1	N	1.6	Y	N	Y
N4433	16	77.4	Green Code	72.1	70.4	0.0	67.0	0.0	23.7	0.0	0.0	67.0	72.0	70	Y	-0.1	N	1.6	Y	N	Y
N4433	17	80.5	Green Code	71.9	70.2	0.0	67.2	0.0	24.3	0.0	0.0	67.2	72.0	70	Y	0.1	N	1.8	Y	N	Y
N4433	18	83.6	Green Code	71.8	70.1	0.0	67.4	0.0	24.9	0.0	0.0	67.4	72.0	70	Y	0.2	N	1.9	Y	N	Y
N4433	19	86.7	Green Code	71.6	69.9	0.0	67.7	0.0	25.6	0.0	0.0	67.7	71.9	70	Y	0.3	N	2.0	Y	N	Y
N4433	20	89.8	Green Code	71.5	69.8	0.0	67.9	0.0	26.3	0.0	0.0	67.9	72.0	70	Y	0.5	N	2.2	Y	N	Y
N4433	21	92.9	Green Code	71.4	69.6	0.0	68.0	0.0	27.1	0.0	0.0	68.0	71.9	70	Y	0.5	N	2.3	Y	N	Y
N4433	22	96.0	Green Code	71.2	69.5	0.0	68.1	0.0	27.9	0.0	0.0	68.1	71.9	70	Y	0.7	N	2.4	Y	N	Y
N4433	23	99.1	Green Code	71.1	69.4	0.0	68.1	0.0	28.7	0.0	0.0	68.1	71.8	70	Y	0.7	N	2.4	Y	N	Y
N4433	24	102.2	Green Code	71	69.3	0.0	68.0	0.0	29.6	0.0	0.0	68.0	71.7	70	Y	0.7	N	2.4	Y	N	Y
N4433	25	105.3	Green Code	70.9	69.1	0.0	68.0	0.0	30.5	0.0	0.0	68.0	71.6	70	Y	0.7	N	2.5	Y	N	Y
N4433	26	108.4	Green Code	70.8	69.0	0.0	68.0	0.0	31.5	0.0	0.0	68.0	71.6	70	Y	0.8	N	2.6	Y	N	Y
N4433	27	111.5	Green Code	70.6	68.9	0.0	68.0	0.0	32.5	0.0	0.0	68.0	71.5	70	Y	0.9	N	2.6	Y	N	Y
N4433	28	114.6	Green Code	70.5	68.8	0.0	68.0	0.0	33.6	0.0	0.0	68.0	71.4	70	Y	0.9	N	2.6	Y	N	Y
N4433	29	117.7	Green Code	70.4	68.7	0.0	68.0	0.0	34.9	0.0	0.0	68.0	71.4	70	Y	1.0	Y	2.7	Y	N	Y
N4644	1	20.4	Shung Him Tong Tsuen	65.3	64.5	0.0	68.0	28.1	0.0	0.0	0.0	68.0	69.6	70	N	4.3	Y	5.1	Y	N	N
N4645	1	20.4	Shung Him Tong Tsuen	66.6	65.7	0.0	67.2	0.0	0.0	0.0	0.0	67.2	69.5	70	N	2.9	Y	3.8	Y	N	N
N4645	2	23.4	Shung Him Tong Tsuen	66.6	65.6	0.0	70.0	0.0	0.0	0.0	0.0	70.0	71.3	70	Y	4.7	Y	5.7	Y	N	Y
N4645	3	26.4	Shung Him Tong Tsuen	66.6	65.6	0.0	72.1	0.0	0.0	0.0	0.0	72.1	73.0	70	Y	6.4	Y	7.4	Y	Y	Y
N4646	1	23.3	Shung Him Tong Tsuen	65.1	64.4	0.0	66.5	0.0	0.0	0.0	0.0	66.5	68.6	70	N	3.5	Y	4.2	Y	N	N
N4646	2	26.3	Shung Him Tong Tsuen	65.2	64.4	0.0	67.7	0.0	0.0	0.0	0.0	67.7	69.4	70	N	4.2	Y	5.0	Y	N	N
N4647	1	19.7	Shung Him Tong Tsuen	67	66.0	48.0	66.0	0.0	33.6	0.0	0.0	66.0	69.1	70	N	2.1	Y	3.0	Y	N	N
N4648	1	17.7	Shung Him Tong Tsuen	67.7	66.5	51.2	65.7	0.0	0.0	0.0	0.0	65.7	69.2	70	N	1.5	Y	2.6	Y	N	N
N4663	1	17.5	Scattered Village Houses in Tong Hang	68.7	67.1	56.6	65.0	0.0	0.0	0.0	0.0	65.0	69.4	70	N	0.7	N	1.9	Y	N	N
N4663	2	20.5	Scattered Village Houses in Tong Hang	68.7	67.1	56.6	67.2	0.0	0.0	0.0	0.0	67.2	70.4	70	N	1.7	Y	2.9	Y	N	N
N4664	1	16.5	Scattered Village Houses in Tong Hang	69.3	67.7	58.4	64.0	0.0	0.0	0.0	0.0	64.0	69.6	70	N	0.3	N	1.4	Y	N	N
N4744	1	15.6	R SR8	65.2	13.0	59.9	44.4	54.4	19.7	43.7	0.0	55.1	61.2	70	N	-4.0	N	1.3	Y	N	N
N4744	2	18.6	R SR8	65.6	13.0	61.1	46.0	54.4	19.9	44.5	0.0	55.3	62.1	70	N	-3.5	N	1.0	Y	N	N
N4744	3	21.6	R SR8	66.2	13.1	62.1	47.8	54.4	20.1	45.6	0.0	55.7	63.0	70	N	-3.2	N	0.9	N	N	N
N4745	1	14.3	R SR8	74.8	71.7	64.8	54.3	63.6	0.0	0.0	0.0	64.1	73.1	70	Y	-1.7	N	0.6	N	N	N
N4781	1	23.6	Area 48	-	51.5	60.0	0.0	61.3	0.0	0.0	0.0	61.3	64.0	70	N	-	-	3.4	Y	N	N
N4781	2	26.4	Area 48	-	53.3	61.5	0.0	61.1	0.0	0.0	0.0	61.1	64.6	70	N	-	-	2.5	Y	N	N
N4781	3	29.1	Area 48	-	54.1	62.8	0.0	60.9	0.0	0.0	0.0	60.9	65.3	70	N	-	-	2.0	Y	N	N
N4781	4	31.9	Area 48	-	54.7	64.0	0.0	60.6	0.0	0.0	0.0	60.6	66.0	70	N	-	-	1.5	Y	N	N
N4781	5	34.6	Area 48	-	55.3	65.3	0.0	60.4	0.0	0.0	0.0	60.4	66.9	70	N	-	-	1.2	Y	N	N
N4781	6	37.4	Area 48	-	56.5	66.3	0.0	60.2	0.0	0.0	0.0	60.2	67.6	70	N	-	-	0.9	N	N	N
N4781	7	40.1	Area 48	-	59.6	66.9	0.0	60.0	0.0	0.0	0.0	60.0	68.3	70	N	-	-	0.7	N	N	N
N4781	8	42.9	Area 48	-	61.4	67.4	0.0	59.8	0.0	0.0	0.0	59.8	68.9	70	N	-	-	0.5	N	N	N
N4781	9	45.6	Area 48	-	62.1	67.8	0.0	59.7	0.0	0.0	0.0	59.7	69.3	70	N	-	-	0.5	N	N	N
N4781	10	48.4	Area 48	-	62.4	68.1	0.0	59.5	0.0	0.0	0.0	59.5	69.6	70	N	-	-	0.5	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT													
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	New Roads[2]					Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]								
ID	Floor	Floor Level (mPD)					dB (A)								C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
N4781	11	51.1	Area 48	-	62.7	68.4	0.0	59.4	0.0	0.0	0.0	59.4	69.9	70	N	-	-	0.5	N	N	N
N4781	12	53.9	Area 48	-	62.9	68.6	0.0	59.2	0.0	0.0	0.0	59.2	70.0	70	N	-	-	0.4	N	N	N
N4781	13	56.6	Area 48	-	63.0	68.8	0.0	59.0	0.0	0.0	0.0	59.0	70.1	70	N	-	-	0.3	N	N	N
N4781	14	59.4	Area 48	-	63.1	68.8	0.0	58.9	0.0	0.0	0.0	58.9	70.2	70	N	-	-	0.4	N	N	N
N4781	15	62.1	Area 48	-	63.2	68.9	0.0	58.7	0.0	0.0	0.0	58.7	70.3	70	N	-	-	0.4	N	N	N
N4781	16	64.9	Area 48	-	63.3	69.0	0.0	58.5	0.0	0.0	0.0	58.5	70.3	70	N	-	-	0.3	N	N	N
N4781	17	67.6	Area 48	-	63.3	68.9	0.0	58.4	0.0	0.0	0.0	58.4	70.3	70	N	-	-	0.3	N	N	N
N4781	18	70.4	Area 48	-	63.4	69.0	0.0	58.3	0.0	0.0	0.0	58.3	70.3	70	N	-	-	0.2	N	N	N
N4781	19	73.1	Area 48	-	63.5	69.0	0.0	58.1	0.0	0.0	0.0	58.1	70.3	70	N	-	-	0.2	N	N	N
N4781	20	75.9	Area 48	-	63.5	68.9	0.0	58.0	0.0	0.0	0.0	58.0	70.3	70	N	-	-	0.3	N	N	N
N4781	21	78.6	Area 48	-	63.6	68.9	0.0	57.9	0.0	0.0	0.0	57.9	70.3	70	N	-	-	0.3	N	N	N
N4781	22	81.4	Area 48	-	63.7	68.9	0.0	57.7	0.0	0.0	0.0	57.7	70.3	70	N	-	-	0.3	N	N	N
N4781	23	84.1	Area 48	-	63.7	69.0	0.0	57.6	0.0	0.0	0.0	57.6	70.3	70	N	-	-	0.2	N	N	N
N4781	24	86.9	Area 48	-	63.8	68.9	0.0	57.5	0.0	0.0	0.0	57.5	70.3	70	N	-	-	0.2	N	N	N
N4781	25	89.6	Area 48	-	63.9	68.9	0.0	57.4	0.0	0.0	0.0	57.4	70.3	70	N	-	-	0.2	N	N	N
N4781	26	92.4	Area 48	-	64.0	69.0	0.0	57.3	0.0	0.0	0.0	57.3	70.4	70	N	-	-	0.2	N	N	N
N4781	27	95.1	Area 48	-	64.1	68.9	0.0	57.2	0.0	0.0	0.0	57.2	70.4	70	N	-	-	0.3	N	N	N
N4781	28	97.9	Area 48	-	64.2	68.9	0.0	57.1	0.0	0.0	0.0	57.1	70.4	70	N	-	-	0.2	N	N	N
N4781	29	100.6	Area 48	-	64.3	68.9	0.0	57.0	0.0	0.0	0.0	57.0	70.4	70	N	-	-	0.2	N	N	N
N4782	1	23.6	Area 48	-	40.1	57.5	0.0	55.5	0.0	0.0	0.0	55.5	59.7	70	N	-	-	2.1	Y	N	N
N4782	2	26.4	Area 48	-	41.8	59.0	0.0	55.4	0.0	0.0	0.0	55.4	60.6	70	N	-	-	1.5	Y	N	N
N4782	3	29.1	Area 48	-	43.8	60.2	0.0	55.4	0.0	0.0	0.0	55.4	61.6	70	N	-	-	1.3	Y	N	N
N4782	4	31.9	Area 48	-	46.1	61.3	0.0	55.3	0.0	0.0	0.0	55.3	62.4	70	N	-	-	1.0	Y	N	N
N4782	5	34.6	Area 48	-	48.8	62.6	0.0	55.3	0.0	0.0	0.0	55.3	63.5	70	N	-	-	0.7	N	N	N
N4782	6	37.4	Area 48	-	52.2	63.4	0.0	55.2	0.0	0.0	0.0	55.2	64.3	70	N	-	-	0.6	N	N	N
N4782	7	40.1	Area 48	-	57.1	64.2	0.0	55.2	0.0	0.0	0.0	55.2	65.4	70	N	-	-	0.4	N	N	N
N4782	8	42.9	Area 48	-	59.8	64.8	0.0	55.3	0.0	0.0	0.0	55.3	66.3	70	N	-	-	0.3	N	N	N
N4782	9	45.6	Area 48	-	60.8	65.3	0.0	55.6	0.0	0.0	0.0	55.6	66.9	70	N	-	-	0.3	N	N	N
N4782	10	48.4	Area 48	-	61.2	65.8	0.0	55.6	0.0	0.0	0.0	55.6	67.4	70	N	-	-	0.3	N	N	N
N4782	11	51.1	Area 48	-	61.6	66.2	0.0	55.5	0.0	0.0	0.0	55.5	67.7	70	N	-	-	0.2	N	N	N
N4782	12	53.9	Area 48	-	61.8	66.3	0.0	55.4	0.0	0.0	0.0	55.4	67.9	70	N	-	-	0.3	N	N	N
N4782	13	56.6	Area 48	-	62.0	66.4	0.0	55.3	0.0	0.0	0.0	55.3	68.0	70	N	-	-	0.3	N	N	N
N4782	14	59.4	Area 48	-	62.1	66.5	0.0	55.3	0.0	0.0	0.0	55.3	68.1	70	N	-	-	0.3	N	N	N
N4782	15	62.1	Area 48	-	62.2	66.5	0.0	55.2	0.0	0.0	0.0	55.2	68.1	70	N	-	-	0.2	N	N	N
N4782	16	64.9	Area 48	-	62.3	66.5	0.0	55.1	0.0	0.0	0.0	55.1	68.1	70	N	-	-	0.2	N	N	N
N4782	17	67.6	Area 48	-	62.3	66.5	0.0	55.0	0.0	0.0	0.0	55.0	68.1	70	N	-	-	0.2	N	N	N
N4782	18	70.4	Area 48	-	62.4	66.5	0.0	54.9	0.0	0.0	0.0	54.9	68.2	70	N	-	-	0.3	N	N	N
N4782	19	73.1	Area 48	-	62.5	66.5	0.0	54.9	0.0	0.0	0.0	54.9	68.2	70	N	-	-	0.2	N	N	N
N4782	20	75.9	Area 48	-	62.6	66.5	0.0	54.8	0.0	0.0	0.0	54.8	68.2	70	N	-	-	0.2	N	N	N
N4782	21	78.6	Area 48	-	62.6	66.5	0.0	54.7	0.0	0.0	0.0	54.7	68.2	70	N	-	-	0.2	N	N	N
N4782	22	81.4	Area 48	-	62.7	66.5	0.0	54.7	0.0	0.0	0.0	54.7	68.2	70	N	-	-	0.2	N	N	N
N4782	23	84.1	Area 48	-	62.8	66.4	0.0	54.6	0.0	0.0	0.0	54.6	68.2	70	N	-	-	0.2	N	N	N
N4782	24	86.9	Area 48	-	63.0	66.4	0.0	54.5	0.0	0.0	0.0	54.5	68.2	70	N	-	-	0.2	N	N	N
N4782	25	89.6	Area 48	-	63.0	66.4	0.0	54.5	0.0	0.0	0.0	54.5	68.2	70	N	-	-	0.2	N	N	N
N4782	26	92.4	Area 48	-	63.1	66.3	0.0	54.4	0.0	0.0	0.0	54.4	68.2	70	N	-	-	0.2	N	N	N
N4782	27	95.1	Area 48	-	63.3	66.4	0.0	54.4	0.0	0.0	0.0	54.4	68.3	70	N	-	-	0.2	N	N	N
N4782	28	97.9	Area 48	-	63.4	66.3	0.0	54.3	0.0	0.0	0.0	54.3	68.3	70	N	-	-	0.2	N	N	N
N4782	29	100.6	Area 48	-	63.5	66.3	0.0	54.3	0.0	0.0	0.0	54.3	68.3	70	N	-	-	0.2	N	N	N
N4783	1	23.6	Area 48	-	50.8	62.2	51.0	58.1	0.0	54.7	0.0	60.3	64.6	70	N	-	-	2.1	Y	N	N
N4783	2	26.4	Area 48	-	53.0	62.6	52.1	58.1	0.0	56.0	0.0	60.8	65.1	70	N	-	-	2.0	Y	N	N
N4783	3	29.1	Area 48	-	54.1	63.1	52.8	58.0	0.0	56.8	0.0	61.1	65.5	70	N	-	-	1.9	Y	N	N
N4783	4	31.9	Area 48	-	54.9	63.4	53.2	57.9	0.0	57.1	0.0	61.2	65.8	70	N	-	-	1.8	Y	N	N
N4783	5	34.6	Area 48	-	55.7	64.0	53.5	57.8	0.0	57.3	0.0	61.3	66.3	70	N	-	-	1.7	Y	N	N
N4783	6	37.4	Area 48	-	56.9	64.5	53.9	57.6	0.0	57.4	0.0	61.4	66.7	70	N	-	-	1.5	Y	N	N
N4783	7	40.1	Area 48	-	59.0	65.1	54.1	57.5	0.0	57.4	0.0	61.4	67.3	70	N	-	-	1.2	Y	N	N
N4783	8	42.9	Area 48	-	61.0	66.0	54.2	57.4	0.0	57.4	0.0	61.3	68.2	70	N	-	-	1.0	Y	N	N
N4783	9	45.6	Area 48	-	62.1	67.2	54.4	57.4	0.0	57.3	0.0	61.3	69.2	70	N	-	-	0.8	N	N	N
N4783	10	48.4	Area 48	-	62.6	68.0	54.5	57.5	0.0	57.3	0.0	61.4	69.8	70	N	-	-	0.7	N	N	N
N4783	11	51.1	Area 48	-	62.9	68.3	54.5	57.7	0.0	57.1	0.0	61.4	70.1	70	N	-	-	0.7	N	N	N
N4783	12	53.9	Area 48	-	63.0	68.6	54.5	58.1	0.0	57.0	0.0	61.6	70.3	70	N	-	-	0.6	N	N	N
N4783	13	56.6	Area 48	-	63.0	68.8	54.5	58.4	0.0	56.9	0.0	61.7	70.4	70	N	-	-	0.6	N	N	N
N4783	14	59.4	Area 48	-	63.1	68.9	54.5	58.4	0.0	56.7	0.0	61.6	70.5	70	Y	-	-	0.6	N	N	N
N4783	15	62.1	Area 48	-	63.1	69.1	54.5	58.4	0.0	56.6	0.0	61.6	70.6	70	Y	-	-	0.5	N	N	N
N4783	16	64.9	Area 48	-	63.1	69.1	54.5	58.4	0.0	56.5	0.0	61.5	70.7	70	Y	-	-	0.6	N	N	N
N4783	17	67.6	Area 48	-	63.2	69.2	54.4	58.3	0.0	56.3	0.0	61.4	70.7	70	Y	-	-	0.5	N	N	N
N4783	18	70.4	Area 48	-	63.2	69.2	54.4	58.3	0.0	56.2	0.0	61.3	70.7	70	Y	-	-	0.5	N	N	N
N4783	19	73.1	Area 48	-	63.2	69.2	54.3	58.1	0.0	56.1	0.0	61.2	70.7	70	Y	-	-	0.5	N	N	N
N4783	20	75.9	Area 48	-	63.2	69.2	54.2	58.1	0.0	55.9	0.0	61.1	70.7	70	Y	-	-	0.5	N	N	N
N4783	21	78.6	Area 48	-	63.3	69.2	54.2	57.9	0.0	55.8	0.0	61.0	70.7	70	Y	-	-	0.5	N	N	N
N4783	22	81.4	Area 48	-	63.3	69.2	54.1	57.9	0.0	55.7	0.0	60.9	70.7	70	Y	-	-	0.5	N	N	N
N4783	23	84.1	Area 48	-	63.3	69.2	54.0	57.7	0.0	55.6	0.0	60.8	70.7	70	Y	-	-	0.5	N	N	N
N4783	24	86.9	Area 48	-	63.3	69.2	54.0	57.7	0.0	55.4	0.0	60.7	70.7	70	Y	-	-	0.5	N	N	N
N4783	25	89.6	Area 48	-	63.4	69.2	53.9	57.6	0.0	55.3	0.0	60.6	70.7	70	Y	-	-	0.5	N	N	N
N4783	26	92.4	Area 48	-	63.4	69.2	53.8	57.5	0.0	55.2	0.0	60.6	70.6	70	Y	-	-	0.4	N	N	N
N4783	27	95.1	Area 48	-	63.5	69.2	53.7	57.5	0.0	55.1	0.0	60.5	70.6	70	Y	-	-	0.4	N	N	N
N4783	28	97.9	Area 48	-	63.5	69.2	53.7	57.4	0.0	55.0	0.0	60.4	70.6	70	Y	-	-	0.4	N	N	N
N4783	29	100.6	Area 48	-	63.6	69.1	53.6	57.4	0.0	54.8	0.0	60.3	70.6	70	Y	-	-	0.4	N	N	N
N4784	1	23.6	Area 48	-	14.0	66.4	48.4	58.7	41.8	63.8	0.0	65.1	68.8	70	N	-	-	2.4	Y	N	N
N4784	2	26.4	Area 48	-	14.2	66.4	48.7	58.7	42.2	64.7	0.0	65.7	69.1	70	N	-	-	2.7	Y	N	N
N4784	3	29.1	Area 48	-	14.5	66.4	49.1	58.6	42.5	65.3	0.0	66.3	69.4	70	N	-	-	3.0	Y	N	N
N4784	4	31.9	Area 48	-	14.8	66.3	49.5	58.6	42.7	65.8	0.0	66.6	69.5	70	N	-	-	3.2	Y	N	N
N4784	5	34.6	Area 48	-	15.1	66.3	50.0	58.5	42.7	66.1	0.0	66.9	69.6	70	N	-	-	3.3	Y	N	N
N4784	6	37.4	Area 48	-	15.3	66.3	50.5	58.4	42.7	66.4	0.0	67.1	69.7	70	N	-	-	3.4	Y	N	N
N4784	7	40.1	Area 48	-	15.7	66.2	51.2	58.3	42.7	66.5	0.0	67.2	69.7	70	N	-	-	3.5	Y	N	N
N4784	8	42.9	Area 48	-	16.0	66.2	51.1	58.1	42.7	66.6	0.0	67.3	69.8	70	N	-	-	3.6	Y	N	N
N4784	9	45.6	Area 48	-	16.4	66.1	51.2	58.0	42.6	66.7	0.0	67.3	69.8	70	N	-	-	3.7	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

				WITHOUT PROJECT	WITH PROJECT														
Assessment Point			Location	Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	New Roads[2]					New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
N4784	10	48.4	Area 48	-	16.8	66.1	51.5	57.9	42.6	66.7	0.0	67.3	69.8	70	N	-	-	3.7	Y	N	N
N4784	11	51.1	Area 48	-	17.2	66.1	51.9	57.8	42.6	66.7	0.0	67.3	69.8	70	N	-	-	3.7	Y	N	N
N4784	12	53.9	Area 48	-	17.6	66.0	52.4	57.6	42.5	66.7	0.0	67.3	69.7	70	N	-	-	3.7	Y	N	N
N4784	13	56.6	Area 48	-	18.1	65.9	52.9	57.5	42.5	66.6	0.0	67.3	69.6	70	N	-	-	3.7	Y	N	N
N4784	14	59.4	Area 48	-	18.6	65.9	53.3	57.4	42.4	66.6	0.0	67.3	69.6	70	N	-	-	3.7	Y	N	N
N4784	15	62.1	Area 48	-	19.1	65.8	53.6	57.2	42.4	66.6	0.0	67.3	69.6	70	N	-	-	3.8	Y	N	N
N4784	16	64.9	Area 48	-	19.5	65.7	53.9	57.2	42.4	66.6	0.0	67.3	69.6	70	N	-	-	3.9	Y	N	N
N4784	17	67.6	Area 48	-	20.1	65.6	54.1	57.0	42.4	66.5	0.0	67.2	69.5	70	N	-	-	3.9	Y	N	N
N4784	18	70.4	Area 48	-	20.6	65.6	54.3	56.9	42.3	66.5	0.0	67.2	69.5	70	N	-	-	3.9	Y	N	N
N4784	19	73.1	Area 48	-	21.2	65.6	54.5	56.8	42.3	66.5	0.0	67.2	69.4	70	N	-	-	3.8	Y	N	N
N4784	20	75.9	Area 48	-	21.9	65.5	54.7	56.7	42.2	66.4	0.0	67.1	69.4	70	N	-	-	3.9	Y	N	N
N4784	21	78.6	Area 48	-	22.5	65.4	54.8	56.6	42.2	66.4	0.0	67.1	69.4	70	N	-	-	4.0	Y	N	N
N4784	22	81.4	Area 48	-	23.1	65.3	54.9	56.5	42.2	66.3	0.0	67.0	69.3	70	N	-	-	4.0	Y	N	N
N4784	23	84.1	Area 48	-	23.9	65.3	55.0	56.4	42.1	66.3	0.0	67.0	69.3	70	N	-	-	4.0	Y	N	N
N4784	24	86.9	Area 48	-	24.6	65.3	55.1	56.3	42.1	66.2	0.0	67.0	69.2	70	N	-	-	3.9	Y	N	N
N4784	25	89.6	Area 48	-	25.4	65.2	55.2	56.3	42.1	66.2	0.0	66.9	69.2	70	N	-	-	4.0	Y	N	N
N4784	26	92.4	Area 48	-	26.2	65.1	55.1	56.2	42.0	66.1	0.0	66.9	69.1	70	N	-	-	4.0	Y	N	N
N4784	27	95.1	Area 48	-	27.1	65.0	55.2	56.2	42.1	66.1	0.0	66.8	69.0	70	N	-	-	4.0	Y	N	N
N4784	28	97.9	Area 48	-	28.0	64.9	55.3	56.1	42.1	66.0	0.0	66.8	69.0	70	N	-	-	4.1	Y	N	N
N4784	29	100.6	Area 48	-	29.1	64.8	55.3	56.1	42.2	66.0	0.0	66.7	68.9	70	N	-	-	4.1	Y	N	N
N4785	1	23.6	Area 48	-	13.1	51.5	33.4	44.4	37.3	50.8	0.0	51.9	54.7	70	N	-	-	3.2	Y	N	N
N4785	2	26.4	Area 48	-	13.1	51.5	33.7	44.3	37.6	51.3	0.0	52.3	54.9	70	N	-	-	3.4	Y	N	N
N4785	3	29.1	Area 48	-	13.2	51.4	33.9	44.2	37.6	51.5	0.0	52.5	55.0	70	N	-	-	3.6	Y	N	N
N4785	4	31.9	Area 48	-	13.3	51.4	34.2	44.0	37.6	51.7	0.0	52.6	55.1	70	N	-	-	3.7	Y	N	N
N4785	5	34.6	Area 48	-	13.3	51.3	34.5	43.8	37.6	51.8	0.0	52.7	55.0	70	N	-	-	3.7	Y	N	N
N4785	6	37.4	Area 48	-	13.4	51.2	34.8	43.6	37.6	51.8	0.0	52.7	55.0	70	N	-	-	3.8	Y	N	N
N4785	7	40.1	Area 48	-	13.4	51.1	35.2	43.4	37.6	51.8	0.0	52.6	54.9	70	N	-	-	3.8	Y	N	N
N4785	8	42.9	Area 48	-	13.5	51.1	35.7	43.2	37.5	51.8	0.0	52.6	54.9	70	N	-	-	3.8	Y	N	N
N4785	9	45.6	Area 48	-	13.5	51.0	36.5	43.0	37.5	51.7	0.0	52.5	54.8	70	N	-	-	3.8	Y	N	N
N4785	10	48.4	Area 48	-	13.5	50.9	36.4	42.8	37.5	51.7	0.0	52.5	54.8	70	N	-	-	3.9	Y	N	N
N4785	11	51.1	Area 48	-	13.6	50.8	36.7	42.5	37.5	51.6	0.0	52.4	54.7	70	N	-	-	3.9	Y	N	N
N4785	12	53.9	Area 48	-	13.6	50.7	36.9	42.3	37.5	51.5	0.0	52.3	54.6	70	N	-	-	3.9	Y	N	N
N4785	13	56.6	Area 48	-	13.6	50.6	37.4	42.1	37.5	51.5	0.0	52.2	54.5	70	N	-	-	3.9	Y	N	N
N4785	14	59.4	Area 48	-	13.7	50.5	37.9	41.9	37.4	51.4	0.0	52.1	54.4	70	N	-	-	3.9	Y	N	N
N4785	15	62.1	Area 48	-	13.7	50.4	38.4	41.8	37.4	51.3	0.0	52.1	54.4	70	N	-	-	4.0	Y	N	N
N4785	16	64.9	Area 48	-	13.7	50.2	38.6	41.6	37.3	51.2	0.0	52.0	54.2	70	N	-	-	4.0	Y	N	N
N4785	17	67.6	Area 48	-	13.8	50.1	38.9	41.4	37.3	51.1	0.0	51.9	54.1	70	N	-	-	4.0	Y	N	N
N4785	18	70.4	Area 48	-	13.8	50.0	39.1	41.2	37.3	51.0	0.0	51.9	54.0	70	N	-	-	4.0	Y	N	N
N4785	19	73.1	Area 48	-	13.8	49.9	39.4	41.0	37.2	51.0	0.0	51.8	54.0	70	N	-	-	4.1	Y	N	N
N4785	20	75.9	Area 48	-	13.8	49.8	39.5	40.9	37.2	50.9	0.0	51.7	53.9	70	N	-	-	4.1	Y	N	N
N4785	21	78.6	Area 48	-	13.8	49.7	39.6	40.7	37.1	50.8	0.0	51.7	53.8	70	N	-	-	4.1	Y	N	N
N4785	22	81.4	Area 48	-	13.7	49.6	39.8	40.6	37.1	50.7	0.0	51.6	53.7	70	N	-	-	4.1	Y	N	N
N4785	23	84.1	Area 48	-	14.2	49.5	39.8	40.4	37.0	50.7	0.0	51.5	53.7	70	N	-	-	4.2	Y	N	N
N4785	24	86.9	Area 48	-	15.6	49.4	39.9	40.3	37.0	50.6	0.0	51.5	53.6	70	N	-	-	4.2	Y	N	N
N4785	25	89.6	Area 48	-	17.2	49.3	39.9	40.2	37.0	50.5	0.0	51.4	53.5	70	N	-	-	4.2	Y	N	N
N4785	26	92.4	Area 48	-	19.0	49.2	40.2	40.1	37.1	50.6	0.0	51.5	53.5	70	N	-	-	4.3	Y	N	N
N4785	27	95.1	Area 48	-	21.0	49.1	40.6	40.0	37.2	50.7	0.0	51.6	53.5	70	N	-	-	4.4	Y	N	N
N4785	28	97.9	Area 48	-	23.3	49.0	41.0	40.0	37.4	51.0	0.0	51.9	53.7	70	N	-	-	4.7	Y	N	N
N4785	29	100.6	Area 48	-	25.5	48.9	41.7	40.3	37.7	51.6	0.0	52.4	54.0	70	N	-	-	5.1	Y	N	N
N4786	1	23.6	Area 48	-	36.9	41.2	28.3	32.1	0.0	33.1	0.0	36.3	43.5	70	N	-	-	0.9	N	N	N
N4786	2	26.4	Area 48	-	37.4	41.2	28.2	31.9	0.0	33.0	0.0	36.2	43.6	70	N	-	-	0.9	N	N	N
N4786	3	29.1	Area 48	-	38.0	41.2	28.2	31.8	0.0	32.8	0.0	36.1	43.7	70	N	-	-	0.8	N	N	N
N4786	4	31.9	Area 48	-	38.8	41.1	28.1	31.6	0.0	32.6	0.0	35.9	43.9	70	N	-	-	0.8	N	N	N
N4786	5	34.6	Area 48	-	39.9	41.1	27.9	31.4	0.0	32.4	0.0	35.7	44.2	70	N	-	-	0.6	N	N	N
N4786	6	37.4	Area 48	-	41.3	41.1	27.8	31.2	0.0	32.2	0.0	35.5	44.7	70	N	-	-	0.5	N	N	N
N4786	7	40.1	Area 48	-	42.5	41.0	27.7	31.0	0.0	32.1	0.0	35.4	45.3	70	N	-	-	0.5	N	N	N
N4786	8	42.9	Area 48	-	43.2	41.0	27.6	30.8	0.0	31.8	0.0	35.2	45.7	70	N	-	-	0.5	N	N	N
N4786	9	45.6	Area 48	-	44.0	40.9	27.4	30.6	0.0	31.6	0.0	35.0	46.1	70	N	-	-	0.4	N	N	N
N4786	10	48.4	Area 48	-	44.8	40.9	27.3	30.4	0.0	31.4	0.0	34.8	46.6	70	N	-	-	0.3	N	N	N
N4786	11	51.1	Area 48	-	45.2	40.8	27.2	30.2	0.0	31.3	0.0	34.6	46.8	70	N	-	-	0.3	N	N	N
N4786	12	53.9	Area 48	-	45.7	40.8	27.1	30.0	0.0	31.0	0.0	34.5	47.2	70	N	-	-	0.3	N	N	N
N4786	13	56.6	Area 48	-	46.2	40.7	26.9	29.9	0.0	30.9	0.0	34.3	47.5	70	N	-	-	0.2	N	N	N
N4786	14	59.4	Area 48	-	46.6	40.7	26.8	29.7	0.0	30.7	0.0	34.1	47.8	70	N	-	-	0.2	N	N	N
N4786	15	62.1	Area 48	-	46.9	40.6	26.7	29.6	0.0	30.5	0.0	34.0	48.0	70	N	-	-	0.2	N	N	N
N4786	16	64.9	Area 48	-	47.0	40.6	26.6	29.4	0.0	30.3	0.0	33.8	48.1	70	N	-	-	0.2	N	N	N
N4786	17	67.6	Area 48	-	47.2	40.5	26.5	29.3	0.0	30.2	0.0	33.7	48.2	70	N	-	-	0.2	N	N	N
N4786	18	70.4	Area 48	-	47.3	40.4	26.4	29.1	0.0	30.0	0.0	33.5	48.2	70	N	-	-	0.1	N	N	N
N4786	19	73.1	Area 48	-	47.4	40.4	26.3	29.0	0.0	29.9	0.0	33.4	48.3	70	N	-	-	0.1	N	N	N
N4786	20	75.9	Area 48	-	47.4	40.3	26.2	28.9	0.0	29.7	0.0	33.3	48.3	70	N	-	-	0.1	N	N	N
N4786	21	78.6	Area 48	-	47.4	40.3	26.1	28.7	0.0	29.6	0.0	33.1	48.3	70	N	-	-	0.1	N	N	N
N4786	22	81.4	Area 48	-	47.5	40.2	26.0	28.6	0.0	29.4	0.0	33.0	48.4	70	N	-	-	0.2	N	N	N
N4786	23	84.1	Area 48	-	47.5	40.1	25.9	28.5	0.0	29.2	0.0	32.9	48.3	70	N	-	-	0.1	N	N	N
N4786	24	86.9	Area 48	-	47.5	40.1	25.8	28.5	0.0	29.1	0.0	32.8	48.3	70	N	-	-	0.1	N	N	N
N4786	25	89.6	Area 48	-	47.5	40.0	25.7	28.6	0.0	29.0	0.0	32.8	48.3	70	N	-	-	0.1	N	N	N
N4786	26	92.4	Area 48	-	47.6	40.0	26.2	28.7	0.0	28.8	0.0	32.8	48.4	70	N	-	-	0.1	N	N	N
N4786	27	95.1	Area 48	-	47.8	41.2	27.7	29.0	0.0	28.6	0.0	33.2	48.7	70	N	-	-	0.0	N	N	N
N4786	28	97.9	Area 48	-	48.1	42.9	30.2	29.6	0.0	29.8	0.0	34.6	49.4	70	N	-	-	0.2	N	N	N
N4786	29	100.6	Area 48	-	48.9	44.9	33.2	31.0	0.0	32.1	0.0	37.0	50.5	70	N	-	-	0.1	N	N	N
N4787	1	23.6	Area 48	-	38.1	56.2	48.2	58.5	0.0	58.5	0.0	61.7	62.8	70	N	-	-	6.5	Y	N	N
N4787	2	26.4	Area 48	-	38.6	57.5	48.5	58.5	0.0	59.6	0.0	62.3	63.5	70	N	-	-	5.9	Y	N	N
N4787	3	29.1	Area 48	-	39.3	59.0	48.9	58.4	0.0	60.2	0.0	62.6	64.2	70	N	-	-	5.2	Y	N	N
N4787	4	31.9	Area 48	-	40.0	60.9	49.3	58.3	0.0	60.7	0.0	62.9	65.0	70	N	-	-	4.1	Y	N	N
N4787	5	34.6	Area 48	-	40.9	62.5	49.7	58.2	0.0	60.9	0.0	63.0	65.8	70	N	-	-	3.3	Y	N	N
N4787	6	37.4	Area 48	-	42.0	64.2	50.1	58.1	0.0	61.0	0.0	63.0	66.7	70	N	-	-	2.5	Y	N	N
N4787	7	40.1	Area 48	-	43.4	65.0	50.8	58.0	0.0	61.2	0.0	63.2	67.2	70	N	-	-	2.2	Y	N	N
N4787	8	42.9	Area 48	-	45.3	65.5	51.0	57.9	0.0	61.2	0.0	63.2	67.5	70	N	-	-	2.0	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required[4,5] (Y/N)
							dB (A)														
N4787	9	45.6	Area 48	-	47.9	65.7	50.9	57.8	0.0	61.2	0.0	63.1	67.7	70	N	-	-	1.9	Y	N	N
N4787	10	48.4	Area 48	-	51.0	65.9	51.2	57.7	0.0	61.2	0.0	63.1	67.8	70	N	-	-	1.8	Y	N	N
N4787	11	51.1	Area 48	-	52.8	66.0	51.3	57.5	0.0	61.1	0.0	63.0	67.9	70	N	-	-	1.7	Y	N	N
N4787	12	53.9	Area 48	-	53.7	66.0	51.7	57.4	0.0	61.0	0.0	62.9	67.9	70	N	-	-	1.7	Y	N	N
N4787	13	56.6	Area 48	-	54.2	66.1	52.2	57.3	0.0	61.0	0.0	62.9	68.0	70	N	-	-	1.6	Y	N	N
N4787	14	59.4	Area 48	-	54.5	66.1	52.5	57.1	0.0	60.9	0.0	62.8	68.0	70	N	-	-	1.6	Y	N	N
N4787	15	62.1	Area 48	-	54.6	66.2	52.9	57.0	0.0	60.8	0.0	62.8	68.0	70	N	-	-	1.5	Y	N	N
N4787	16	64.9	Area 48	-	54.7	66.2	53.2	56.9	0.0	60.7	0.0	62.7	68.0	70	N	-	-	1.5	Y	N	N
N4787	17	67.6	Area 48	-	54.6	66.2	53.4	56.7	0.0	60.6	0.0	62.6	68.0	70	N	-	-	1.5	Y	N	N
N4787	18	70.4	Area 48	-	54.6	66.2	53.6	56.6	0.0	60.5	0.0	62.6	68.0	70	N	-	-	1.5	Y	N	N
N4787	19	73.1	Area 48	-	54.6	66.3	53.9	56.5	0.0	60.4	0.0	62.5	68.0	70	N	-	-	1.4	Y	N	N
N4787	20	75.9	Area 48	-	54.6	66.6	54.0	56.4	0.0	60.3	0.0	62.4	68.2	70	N	-	-	1.3	Y	N	N
N4787	21	78.6	Area 48	-	54.6	66.5	54.2	56.2	0.0	60.1	0.0	62.3	68.1	70	N	-	-	1.3	Y	N	N
N4787	22	81.4	Area 48	-	54.6	66.6	54.4	56.1	0.0	60.0	0.0	62.3	68.2	70	N	-	-	1.3	Y	N	N
N4787	23	84.1	Area 48	-	54.5	66.8	54.4	56.0	0.0	59.9	0.0	62.2	68.3	70	N	-	-	1.3	Y	N	N
N4787	24	86.9	Area 48	-	54.5	66.9	54.6	55.9	0.0	59.8	0.0	62.1	68.4	70	N	-	-	1.3	Y	N	N
N4787	25	89.6	Area 48	-	54.5	67.1	54.6	55.7	0.0	59.7	0.0	62.0	68.4	70	N	-	-	1.1	Y	N	N
N4787	26	92.4	Area 48	-	54.5	67.1	54.7	55.6	0.0	59.6	0.0	62.0	68.5	70	N	-	-	1.2	Y	N	N
N4787	27	95.1	Area 48	-	54.5	67.2	54.8	55.5	0.0	59.5	0.0	61.9	68.5	70	N	-	-	1.1	Y	N	N
N4787	28	97.9	Area 48	-	54.6	67.3	54.8	55.4	0.0	59.4	0.0	61.8	68.5	70	N	-	-	1.0	Y	N	N
N4787	29	100.6	Area 48	-	54.7	67.3	54.9	55.3	0.0	59.3	0.0	61.7	68.5	70	N	-	-	1.0	Y	N	N
N4788	1	23.6	Area 48	-	30.4	63.9	50.5	58.7	50.2	71.2	0.0	71.5	72.2	70	Y	-	-	8.3	Y	Y	Y
N4788	2	26.4	Area 48	-	30.4	63.7	50.8	59.6	50.7	71.5	0.0	71.8	72.4	70	Y	-	-	8.7	Y	Y	Y
N4788	3	29.1	Area 48	-	30.8	63.6	51.2	60.1	51.1	71.6	0.0	72.0	72.6	70	Y	-	-	9.0	Y	Y	Y
N4788	4	31.9	Area 48	-	31.4	63.4	51.5	60.3	51.3	71.7	0.0	72.1	72.7	70	Y	-	-	9.3	Y	Y	Y
N4788	5	34.6	Area 48	-	32.0	63.2	51.9	60.4	51.5	71.8	0.0	72.2	72.7	70	Y	-	-	9.5	Y	Y	Y
N4788	6	37.4	Area 48	-	32.5	63.0	52.3	60.4	51.5	71.9	0.0	72.3	72.8	70	Y	-	-	9.8	Y	Y	Y
N4788	7	40.1	Area 48	-	33.2	62.9	52.8	60.4	51.6	72.0	0.0	72.3	72.8	70	Y	-	-	9.9	Y	Y	Y
N4788	8	42.9	Area 48	-	33.9	62.7	53.5	60.4	51.6	72.0	0.0	72.4	72.8	70	Y	-	-	10.1	Y	Y	Y
N4788	9	45.6	Area 48	-	34.6	62.5	54.0	60.3	51.7	72.0	0.0	72.4	72.8	70	Y	-	-	10.3	Y	Y	Y
N4788	10	48.4	Area 48	-	35.2	62.3	54.1	60.3	51.7	72.0	0.0	72.4	72.8	70	Y	-	-	10.5	Y	Y	Y
N4788	11	51.1	Area 48	-	36.0	62.2	54.3	60.2	51.7	72.0	0.0	72.4	72.8	70	Y	-	-	10.6	Y	Y	Y
N4788	12	53.9	Area 48	-	36.7	62.0	54.6	60.2	51.7	72.0	0.0	72.4	72.8	70	Y	-	-	10.8	Y	Y	Y
N4788	13	56.6	Area 48	-	37.6	61.8	55.1	60.1	51.7	72.0	0.0	72.4	72.8	70	Y	-	-	11.0	Y	Y	Y
N4788	14	59.4	Area 48	-	38.3	61.7	55.5	60.0	51.6	72.0	0.0	72.4	72.8	70	Y	-	-	11.1	Y	Y	Y
N4788	15	62.1	Area 48	-	39.1	61.5	55.9	60.0	51.6	72.1	0.0	72.5	72.8	70	Y	-	-	11.3	Y	Y	Y
N4788	16	64.9	Area 48	-	39.9	61.3	56.3	60.0	51.6	72.1	0.0	72.5	72.8	70	Y	-	-	11.5	Y	Y	Y
N4788	17	67.6	Area 48	-	40.8	61.2	56.6	59.9	51.6	72.1	0.0	72.5	72.8	70	Y	-	-	11.6	Y	Y	Y
N4788	18	70.4	Area 48	-	41.6	61.1	56.9	59.9	51.6	72.1	0.0	72.5	72.8	70	Y	-	-	11.7	Y	Y	Y
N4788	19	73.1	Area 48	-	42.4	60.9	57.1	59.8	51.5	72.1	0.0	72.5	72.8	70	Y	-	-	11.8	Y	Y	Y
N4788	20	75.9	Area 48	-	43.3	60.8	57.3	59.8	51.5	72.1	0.0	72.5	72.8	70	Y	-	-	11.9	Y	Y	Y
N4788	21	78.6	Area 48	-	44.3	60.6	57.5	59.7	51.5	72.0	0.0	72.5	72.7	70	Y	-	-	12.0	Y	Y	Y
N4788	22	81.4	Area 48	-	45.2	60.5	57.7	59.6	51.5	72.0	0.0	72.4	72.7	70	Y	-	-	12.1	Y	Y	Y
N4788	23	84.1	Area 48	-	46.3	60.4	57.8	59.6	51.5	72.0	0.0	72.4	72.7	70	Y	-	-	12.1	Y	Y	Y
N4788	24	86.9	Area 48	-	47.6	60.2	57.9	59.5	51.5	71.9	0.0	72.4	72.7	70	Y	-	-	12.3	Y	Y	Y
N4788	25	89.6	Area 48	-	49.5	60.1	58.0	59.5	51.5	71.9	0.0	72.4	72.6	70	Y	-	-	12.1	Y	Y	Y
N4788	26	92.4	Area 48	-	51.4	60.0	58.1	59.4	51.4	71.9	0.0	72.4	72.6	70	Y	-	-	12.0	Y	Y	Y
N4788	27	95.1	Area 48	-	53.1	59.9	58.2	59.3	51.4	71.9	0.0	72.4	72.6	70	Y	-	-	11.9	Y	Y	Y
N4788	28	97.9	Area 48	-	54.5	59.7	58.2	59.2	51.4	71.9	0.0	72.4	72.7	70	Y	-	-	11.9	Y	Y	Y
N4788	29	100.6	Area 48	-	55.3	59.6	58.2	59.2	51.4	72.0	0.0	72.4	72.7	70	Y	-	-	11.7	Y	Y	Y
N4789	1	23.6	Area 48	-	32.0	68.4	48.2	57.9	45.0	68.5	0.0	68.9	71.7	70	Y	-	-	3.3	Y	N	Y
N4789	2	26.4	Area 48	-	32.3	68.1	48.7	58.4	45.9	68.8	0.0	69.3	71.7	70	Y	-	-	3.6	Y	N	Y
N4789	3	29.1	Area 48	-	32.6	67.8	49.0	58.6	46.4	69.0	0.0	69.4	71.7	70	Y	-	-	3.9	Y	N	Y
N4789	4	31.9	Area 48	-	33.1	67.5	49.4	58.7	46.8	69.2	0.0	69.6	71.7	70	Y	-	-	4.2	Y	N	Y
N4789	5	34.6	Area 48	-	33.7	67.2	49.8	58.7	47.0	69.3	0.0	69.8	71.7	70	Y	-	-	4.5	Y	N	Y
N4789	6	37.4	Area 48	-	34.4	66.9	50.3	58.7	47.2	69.5	0.0	69.9	71.7	70	Y	-	-	4.8	Y	N	Y
N4789	7	40.1	Area 48	-	35.1	66.6	50.9	58.7	47.3	69.5	0.0	70.0	71.6	70	Y	-	-	5.0	Y	N	Y
N4789	8	42.9	Area 48	-	35.8	66.4	51.5	58.6	47.4	69.6	0.0	70.1	71.6	70	Y	-	-	5.2	Y	N	Y
N4789	9	45.6	Area 48	-	36.5	66.1	51.8	58.6	47.4	69.8	0.0	70.2	71.6	70	Y	-	-	5.5	Y	N	Y
N4789	10	48.4	Area 48	-	37.4	65.8	52.0	58.6	47.4	69.9	0.0	70.3	71.6	70	Y	-	-	5.8	Y	N	Y
N4789	11	51.1	Area 48	-	38.2	65.6	52.2	58.5	47.3	69.9	0.0	70.3	71.6	70	Y	-	-	6.0	Y	N	Y
N4789	12	53.9	Area 48	-	39.1	65.3	52.5	58.5	47.4	70.0	0.0	70.4	71.6	70	Y	-	-	6.3	Y	N	Y
N4789	13	56.6	Area 48	-	39.9	65.1	52.7	58.5	47.4	70.0	0.0	70.4	71.5	70	Y	-	-	6.4	Y	N	Y
N4789	14	59.4	Area 48	-	40.8	64.9	53.1	58.5	47.4	70.0	0.0	70.4	71.5	70	Y	-	-	6.6	Y	N	Y
N4789	15	62.1	Area 48	-	41.8	64.7	53.5	58.4	47.4	70.1	0.0	70.5	71.5	70	Y	-	-	6.8	Y	Y	Y
N4789	16	64.9	Area 48	-	42.7	64.5	53.7	58.4	47.4	70.1	0.0	70.5	71.4	70	Y	-	-	6.9	Y	Y	Y
N4789	17	67.6	Area 48	-	43.8	64.3	54.0	58.3	47.4	70.1	0.0	70.5	71.4	70	Y	-	-	7.1	Y	Y	Y
N4789	18	70.4	Area 48	-	44.8	64.1	54.3	58.3	47.3	70.1	0.0	70.5	71.4	70	Y	-	-	7.2	Y	Y	Y
N4789	19	73.1	Area 48	-	46.2	63.9	54.6	58.2	47.3	70.1	0.0	70.5	71.4	70	Y	-	-	7.4	Y	Y	Y
N4789	20	75.9	Area 48	-	47.3	63.7	54.8	58.1	47.3	70.2	0.0	70.6	71.4	70	Y	-	-	7.6	Y	Y	Y
N4789	21	78.6	Area 48	-	48.7	63.6	55.0	58.0	47.3	70.2	0.0	70.6	71.4	70	Y	-	-	7.7	Y	Y	Y
N4789	22	81.4	Area 48	-	49.9	63.4	55.1	58.0	47.3	70.2	0.0	70.6	71.4	70	Y	-	-	7.8	Y	Y	Y
N4789	23	84.1	Area 48	-	51.2	63.3	55.3	57.9	47.2	70.3	0.0	70.7	71.4	70	Y	-	-	7.8	Y	Y	Y
N4789	24	86.9	Area 48	-	52.8	63.1	55.4	57.8	47.2	70.4	0.0	70.8	71.5	70	Y	-	-	8.0	Y	Y	Y
N4789	25	89.6	Area 48	-	54.7	63.0	55.5	57.7	47.2	70.4	0.0	70.8	71.6	70	Y	-	-	8.0	Y	Y	Y
N4789	26	92.4	Area 48	-	56.4	62.9	55.6	57.6	47.2	70.5	0.0	70.9	71.7	70	Y	-	-	7.9	Y	Y	Y
N4789	27	95.1	Area 48	-	57.3	62.8	55.7	57.5	47.2	70.6	0.0	70.9	71.7	70	Y	-	-	7.8	Y	Y	Y
N4789	28	97.9	Area 48	-	57.9	62.7	55.8	57.4	47.2	70.5	0.0	70.9	71.7	70	Y	-	-	7.8	Y	Y	Y
N4789	29	100.6	Area 48	-	58.1	62.5	55.8	57.4	47.1	70.5	0.0	70.9	71.7	70	Y	-	-	7.9	Y	Y	Y
N4790	1	23.6	Area 48	-	32.6	68.8	47.5	56.5	43.7	66.6	0.0	67.1	71.0	70	Y	-	-	2.2	Y	N	Y
N4790	2	26.4	Area 48	-	32.8	68.5	47.9	57.2	44.7	67.1	0.0	67.6	71.1	70	Y	-	-	2.6	Y	N	Y
N4790	3	29.1	Area 48	-	33.1	68.2	48.3	57.5	45.3	67.4	0.0	67.9	71.0	70	Y	-	-	2.8	Y	N	Y
N4790	4	31.9	Area 48	-	33.6	67.8	48.7	57.6	45.7	67.6	0.0	68.1	71.0	70	Y	-	-	3.2	Y	N	Y
N4790	5	34.6	Area 48	-	34.2	67.5	49.1	57.7	46.0	67.8	0.0	68.3	70.9	70	Y	-	-	3.4	Y	N	Y
N4790	6	37.4	Area 48	-	34.9	67.2	49.6	57.7	46.2	68.0	0.0	68.5	70.9	70	Y	-	-	3.7	Y	N	Y
N4790	7	40.1	Area 48	-	35.6	66.9	50.1	57.7	46.3	68.2	0.0	68.6	70.9	70	Y	-	-	4.0	Y	N	Y

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

				WITHOUT PROJECT	WITH PROJECT														
Assessment Point			Location	Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	New Roads[2]					New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
N4790	8	42.9	Area 48	-	36.4	66.6	50.7	57.8	46.4	68.3	0.0	68.8	70.9	70	Y	-	-	4.3	Y	N	Y
N4790	9	45.6	Area 48	-	37.2	66.3	51.2	57.8	46.5	68.5	0.0	69.0	70.9	70	Y	-	-	4.6	Y	N	Y
N4790	10	48.4	Area 48	-	38.0	66.1	51.3	57.8	46.5	68.7	0.0	69.1	70.9	70	Y	-	-	4.8	Y	N	Y
N4790	11	51.1	Area 48	-	38.8	65.8	51.4	57.8	46.5	68.8	0.0	69.3	70.9	70	Y	-	-	5.1	Y	N	Y
N4790	12	53.9	Area 48	-	39.8	65.6	51.7	57.8	46.5	68.9	0.0	69.4	70.9	70	Y	-	-	5.3	Y	N	Y
N4790	13	56.6	Area 48	-	40.7	65.3	51.9	57.8	46.5	69.0	0.0	69.4	70.8	70	Y	-	-	5.5	Y	N	Y
N4790	14	59.4	Area 48	-	41.6	65.1	52.1	57.8	46.5	69.0	0.0	69.5	70.8	70	Y	-	-	5.7	Y	N	Y
N4790	15	62.1	Area 48	-	42.6	64.9	52.5	57.8	46.4	69.1	0.0	69.5	70.8	70	Y	-	-	5.9	Y	N	Y
N4790	16	64.9	Area 48	-	43.6	64.7	52.8	57.7	46.4	69.2	0.0	69.6	70.8	70	Y	-	-	6.1	Y	N	Y
N4790	17	67.6	Area 48	-	44.7	64.5	53.1	57.7	46.4	69.3	0.0	69.7	70.8	70	Y	-	-	6.3	Y	N	Y
N4790	18	70.4	Area 48	-	45.8	64.3	53.4	57.7	46.4	69.4	0.0	69.8	70.9	70	Y	-	-	6.5	Y	N	Y
N4790	19	73.1	Area 48	-	47.1	64.1	53.7	57.7	46.4	69.4	0.0	69.9	70.9	70	Y	-	-	6.7	Y	N	Y
N4790	20	75.9	Area 48	-	48.5	63.9	53.9	57.6	46.4	69.6	0.0	70.0	71.0	70	Y	-	-	7.0	Y	N	Y
N4790	21	78.6	Area 48	-	49.9	63.8	54.1	57.5	46.4	69.7	0.0	70.1	71.0	70	Y	-	-	7.0	Y	N	Y
N4790	22	81.4	Area 48	-	51.3	63.6	54.3	57.4	46.4	69.8	0.0	70.2	71.1	70	Y	-	-	7.3	Y	N	Y
N4790	23	84.1	Area 48	-	53.1	63.4	54.4	57.4	46.4	69.9	0.0	70.3	71.2	70	Y	-	-	7.4	Y	N	Y
N4790	24	86.9	Area 48	-	54.9	63.3	54.6	57.3	46.3	70.0	0.0	70.4	71.3	70	Y	-	-	7.4	Y	N	Y
N4790	25	89.6	Area 48	-	56.7	63.2	54.7	57.2	46.3	70.1	0.0	70.5	71.4	70	Y	-	-	7.3	Y	Y	Y
N4790	26	92.4	Area 48	-	58.1	63.1	54.8	57.1	46.3	70.2	0.0	70.6	71.5	70	Y	-	-	7.2	Y	Y	Y
N4790	27	95.1	Area 48	-	58.9	62.9	54.9	57.1	46.3	70.3	0.0	70.6	71.5	70	Y	-	-	7.1	Y	Y	Y
N4790	28	97.9	Area 48	-	59.2	62.9	55.0	56.9	46.2	70.3	0.0	70.6	71.6	70	Y	-	-	7.2	Y	Y	Y
N4790	29	100.6	Area 48	-	59.3	62.7	55.1	56.9	46.2	70.3	0.0	70.6	71.6	70	Y	-	-	7.3	Y	Y	Y
N4791	1	28.6	Area 48	-	16.5	63.2	52.3	60.4	54.3	72.3	0.0	72.7	73.2	70	Y	-	-	10.0	Y	Y	Y
N4791	2	31.4	Area 48	-	16.5	63.1	52.7	60.8	54.5	72.5	0.0	72.9	73.3	70	Y	-	-	10.2	Y	Y	Y
N4791	3	34.1	Area 48	-	16.5	63.0	53.0	61.0	54.6	72.6	0.0	73.0	73.4	70	Y	-	-	10.4	Y	Y	Y
N4791	4	36.9	Area 48	-	16.5	63.0	53.4	61.2	54.7	72.7	0.0	73.1	73.5	70	Y	-	-	10.5	Y	Y	Y
N4791	5	39.6	Area 48	-	16.5	63.1	53.8	61.2	54.7	72.7	0.0	73.1	73.5	70	Y	-	-	10.4	Y	Y	Y
N4791	6	42.4	Area 48	-	16.5	63.2	54.2	61.3	54.7	72.7	0.0	73.2	73.6	70	Y	-	-	10.4	Y	Y	Y
N4791	7	45.1	Area 48	-	16.5	63.2	54.8	61.2	54.7	72.8	0.0	73.2	73.6	70	Y	-	-	10.4	Y	Y	Y
N4791	8	47.9	Area 48	-	16.5	63.2	55.3	61.2	54.8	72.8	0.0	73.2	73.6	70	Y	-	-	10.4	Y	Y	Y
N4791	9	50.6	Area 48	-	16.5	63.1	55.5	61.2	54.7	72.8	0.0	73.2	73.6	70	Y	-	-	10.5	Y	Y	Y
N4791	10	53.4	Area 48	-	16.5	63.0	55.6	61.1	54.7	72.8	0.0	73.2	73.6	70	Y	-	-	10.6	Y	Y	Y
N4791	11	56.1	Area 48	-	16.5	63.0	55.9	61.1	54.7	72.8	0.0	73.2	73.6	70	Y	-	-	10.6	Y	Y	Y
N4791	12	58.9	Area 48	-	16.5	62.8	56.4	61.0	54.8	72.8	0.0	73.2	73.6	70	Y	-	-	10.8	Y	Y	Y
N4791	13	61.6	Area 48	-	16.5	62.7	56.8	61.0	54.8	72.9	0.0	73.3	73.7	70	Y	-	-	11.0	Y	Y	Y
N4791	14	64.4	Area 48	-	16.5	62.7	57.2	60.9	54.8	72.9	0.0	73.4	73.7	70	Y	-	-	11.0	Y	Y	Y
N4791	15	67.1	Area 48	-	16.5	62.6	57.6	60.9	54.8	73.0	0.0	73.4	73.7	70	Y	-	-	11.1	Y	Y	Y
N4791	16	69.9	Area 48	-	16.5	62.5	57.9	61.0	54.8	73.0	0.0	73.5	73.8	70	Y	-	-	11.3	Y	Y	Y
N4791	17	72.6	Area 48	-	16.5	62.4	58.2	61.0	54.8	73.0	0.0	73.5	73.8	70	Y	-	-	11.4	Y	Y	Y
N4791	18	75.4	Area 48	-	16.5	62.3	58.4	61.0	54.7	73.0	0.0	73.5	73.8	70	Y	-	-	11.5	Y	Y	Y
N4791	19	78.1	Area 48	-	16.5	62.3	58.6	60.9	54.7	73.0	0.0	73.5	73.8	70	Y	-	-	11.5	Y	Y	Y
N4791	20	80.9	Area 48	-	16.6	62.2	58.8	60.9	54.7	73.0	0.0	73.5	73.8	70	Y	-	-	11.6	Y	Y	Y
N4791	21	83.6	Area 48	-	17.8	62.2	59.0	60.8	54.7	73.0	0.0	73.4	73.8	70	Y	-	-	11.6	Y	Y	Y
N4791	22	86.4	Area 48	-	19.0	62.2	59.1	60.8	54.7	72.9	0.0	73.4	73.7	70	Y	-	-	11.5	Y	Y	Y
N4791	23	89.1	Area 48	-	20.3	62.1	59.2	60.7	54.6	72.9	0.0	73.4	73.7	70	Y	-	-	11.6	Y	Y	Y
N4791	24	91.9	Area 48	-	21.9	62.1	59.4	60.7	54.6	72.9	0.0	73.4	73.7	70	Y	-	-	11.6	Y	Y	Y
N4791	25	94.6	Area 48	-	23.2	62.1	59.5	60.6	54.6	72.9	0.0	73.4	73.7	70	Y	-	-	11.6	Y	Y	Y
N4791	26	97.4	Area 48	-	24.5	62.1	59.5	60.6	54.6	72.9	0.0	73.3	73.7	70	Y	-	-	11.6	Y	Y	Y
N4791	27	100.1	Area 48	-	25.9	62.1	59.6	60.6	54.5	72.8	0.0	73.3	73.6	70	Y	-	-	11.5	Y	Y	Y
N4791	28	102.9	Area 48	-	27.4	62.2	59.7	60.5	54.5	72.8	0.0	73.3	73.7	70	Y	-	-	11.5	Y	Y	Y
N4791	29	105.6	Area 48	-	29.1	62.2	59.8	60.5	54.5	72.8	0.0	73.3	73.6	70	Y	-	-	11.4	Y	Y	Y
N4791	30	108.4	Area 48	-	30.9	62.2	59.8	60.4	54.5	72.8	0.0	73.3	73.6	70	Y	-	-	11.4	Y	Y	Y
N4791	31	111.1	Area 48	-	32.8	62.2	60.1	60.3	54.4	72.7	0.0	73.3	73.6	70	Y	-	-	11.4	Y	Y	Y
N4791	32	113.9	Area 48	-	35.0	62.3	60.4	60.2	54.4	72.7	0.0	73.3	73.6	70	Y	-	-	11.3	Y	Y	Y
N4791	33	116.6	Area 48	-	37.7	62.4	60.8	60.2	54.4	72.7	0.0	73.2	73.6	70	Y	-	-	11.2	Y	Y	Y
N4791	34	119.4	Area 48	-	41.4	62.7	61.1	60.1	54.4	72.6	0.0	73.2	73.6	70	Y	-	-	10.9	Y	Y	Y
N4791	35	122.1	Area 48	-	44.6	63.3	61.4	60.1	54.4	72.6	0.0	73.2	73.6	70	Y	-	-	10.2	Y	Y	Y
N4791	36	124.9	Area 48	-	45.9	64.0	61.8	60.0	54.4	72.6	0.0	73.2	73.7	70	Y	-	-	9.6	Y	Y	Y
N4791	37	127.6	Area 48	-	46.3	64.6	62.4	59.9	54.4	72.5	0.0	73.2	73.8	70	Y	-	-	9.1	Y	Y	Y
N4791	38	130.4	Area 48	-	46.4	65.3	63.1	59.9	54.5	72.5	0.0	73.2	73.9	70	Y	-	-	8.5	Y	Y	Y
N4791	39	133.1	Area 48	-	46.4	65.7	63.7	59.8	54.6	72.5	0.0	73.3	74.0	70	Y	-	-	8.2	Y	Y	Y
N4792	1	28.6	Area 48	-	0.0	64.9	52.6	60.4	55.3	72.5	0.0	72.9	73.5	70	Y	-	-	8.6	Y	Y	Y
N4792	2	31.4	Area 48	-	0.0	64.9	53.0	60.9	55.5	72.7	0.0	73.1	73.7	70	Y	-	-	8.8	Y	Y	Y
N4792	3	34.1	Area 48	-	0.0	64.8	53.3	61.1	55.6	72.8	0.0	73.2	73.8	70	Y	-	-	9.0	Y	Y	Y
N4792	4	36.9	Area 48	-	0.0	64.7	53.7	61.2	55.6	72.9	0.0	73.3	73.9	70	Y	-	-	9.2	Y	Y	Y
N4792	5	39.6	Area 48	-	0.0	64.6	54.1	61.3	55.7	72.9	0.0	73.4	73.9	70	Y	-	-	9.3	Y	Y	Y
N4792	6	42.4	Area 48	-	0.0	64.6	54.5	61.4	55.7	73.0	0.0	73.4	73.9	70	Y	-	-	9.3	Y	Y	Y
N4792	7	45.1	Area 48	-	0.0	64.5	55.1	61.4	55.7	73.0	0.0	73.4	74.0	70	Y	-	-	9.5	Y	Y	Y
N4792	8	47.9	Area 48	-	0.0	64.4	55.7	61.4	55.7	73.0	0.0	73.5	74.0	70	Y	-	-	9.6	Y	Y	Y
N4792	9	50.6	Area 48	-	0.0	64.3	55.9	61.3	55.7	73.0	0.0	73.5	74.0	70	Y	-	-	9.7	Y	Y	Y
N4792	10	53.4	Area 48	-	0.0	64.2	56.0	61.3	55.7	73.1	0.0	73.5	74.0	70	Y	-	-	9.8	Y	Y	Y
N4792	11	56.1	Area 48	-	0.0	64.1	56.4	61.2	55.7	73.0	0.0	73.5	74.0	70	Y	-	-	9.9	Y	Y	Y
N4792	12	58.9	Area 48	-	0.0	64.0	56.8	61.2	55.7	73.1	0.0	73.5	74.0	70	Y	-	-	10.0	Y	Y	Y
N4792	13	61.6	Area 48	-	0.0	63.9	57.2	61.2	55.8	73.2	0.0	73.6	74.0	70	Y	-	-	10.1	Y	Y	Y
N4792	14	64.4	Area 48	-	0.0	63.8	57.6	61.1	55.8	73.2	0.0	73.6	74.1	70	Y	-	-	10.3	Y	Y	Y
N4792	15	67.1	Area 48	-	0.0	63.7	58.0	61.1	55.7	73.3	0.0	73.7	74.1	70	Y	-	-	10.4	Y	Y	Y
N4792	16	69.9	Area 48	-	0.0	63.6	58.3	61.2	55.7	73.3	0.0	73.8	74.2	70	Y	-	-	10.6	Y	Y	Y
N4792	17	72.6	Area 48	-	0.0	63.5	58.6	61.2	55.7	73.4	0.0	73.8	74.2	70	Y	-	-	10.7	Y	Y	Y
N4792	18	75.4	Area 48	-	0.0	63.4	58.8	61.2	55.7	73.4	0.0	73.8	74.2	70	Y	-	-	10.8	Y	Y	Y
N4792	19	78.1	Area 48	-	0.0	63.3	59.0	61.2	55.7	73.3	0.0	73.8	74.2	70	Y	-	-	10.9	Y	Y	Y
N4792	20	80.9	Area 48	-	0.0	63.3	59.2	61.1	55.6	73.3	0.0	73.8	74.2	70	Y	-	-	10.9	Y	Y	Y
N4792	21	83.6	Area 48	-	0.0	63.2	59.4	61.1	55.6	73.3	0.0	73.8	74.2	70	Y	-	-	11.0	Y	Y	Y
N4792	22	86.4	Area 48	-	0.0	63.1	59.5	61.1	55.6	73.3	0.0	73.8	74.1	70	Y	-	-	11.0	Y	Y	Y
N4792	23	89.1	Area 48	-	0.0	63.0	59.6	61.0	55.6	73.3	0.0	73.8	74.1	70	Y	-	-	11.1	Y	Y	Y
N4792	24	91.9	Area 48	-	0.0	62.9	59.7	61.0	55.5	73.3	0.0	73.7	74.1	70	Y	-	-	11.2	Y	Y	Y
N4792	25	94.6	Area 48	-	0.0	62.8	59.8	60.9	55.5	73.2	0.0	73.7	74.1	70	Y	-	-	11.3	Y	Y	Y

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N4792	26	97.4	Area 48	-	0.0	62.8	59.9	60.9	55.5	73.2	0.0	73.7	74.0	70	Y	-	-	11.2	Y	Y	Y
N4792	27	100.1	Area 48	-	0.0	62.7	60.0	60.8	55.5	73.2	0.0	73.7	74.0	70	Y	-	-	11.3	Y	Y	Y
N4792	28	102.9	Area 48	-	0.0	62.7	60.1	60.8	55.4	73.2	0.0	73.7	74.0	70	Y	-	-	11.3	Y	Y	Y
N4792	29	105.6	Area 48	-	0.0	62.7	60.1	60.7	55.4	73.1	0.0	73.6	74.0	70	Y	-	-	11.3	Y	Y	Y
N4792	30	108.4	Area 48	-	0.0	62.6	60.2	60.7	55.4	73.1	0.0	73.6	73.9	70	Y	-	-	11.3	Y	Y	Y
N4792	31	111.1	Area 48	-	0.0	62.6	60.3	60.6	55.4	73.0	0.0	73.6	73.9	70	Y	-	-	11.3	Y	Y	Y
N4792	32	113.9	Area 48	-	0.0	62.6	60.6	60.5	55.3	73.0	0.0	73.5	73.9	70	Y	-	-	11.3	Y	Y	Y
N4792	33	116.6	Area 48	-	0.0	62.6	60.8	60.5	55.3	73.0	0.0	73.5	73.8	70	Y	-	-	11.2	Y	Y	Y
N4792	34	119.4	Area 48	-	0.0	62.6	61.0	60.4	55.3	72.9	0.0	73.5	73.8	70	Y	-	-	11.2	Y	Y	Y
N4792	35	122.1	Area 48	-	0.0	62.7	61.1	60.3	55.2	72.9	0.0	73.5	73.8	70	Y	-	-	11.1	Y	Y	Y
N4792	36	124.9	Area 48	-	0.0	63.0	61.3	60.2	55.3	72.8	0.0	73.4	73.8	70	Y	-	-	10.8	Y	Y	Y
N4792	37	127.6	Area 48	-	0.0	63.6	61.6	60.2	55.2	72.8	0.0	73.4	73.8	70	Y	-	-	10.2	Y	Y	Y
N4792	38	130.4	Area 48	-	0.0	64.0	62.1	60.2	55.2	72.8	0.0	73.4	73.9	70	Y	-	-	9.9	Y	Y	Y
N4792	39	133.1	Area 48	-	0.0	64.3	62.6	60.1	55.2	72.7	0.0	73.4	73.9	70	Y	-	-	9.6	Y	Y	Y
N4793	1	28.6	Area 48	-	0.0	65.4	52.9	60.4	55.7	72.5	0.0	72.9	73.6	70	Y	-	-	8.2	Y	Y	Y
N4793	2	31.4	Area 48	-	0.0	65.3	53.2	60.8	55.9	72.7	0.0	73.1	73.8	70	Y	-	-	8.5	Y	Y	Y
N4793	3	34.1	Area 48	-	0.0	65.3	53.5	61.1	55.9	72.9	0.0	73.3	73.9	70	Y	-	-	8.6	Y	Y	Y
N4793	4	36.9	Area 48	-	0.0	65.2	53.9	61.3	56.0	73.0	0.0	73.4	74.0	70	Y	-	-	8.8	Y	Y	Y
N4793	5	39.6	Area 48	-	0.0	65.1	54.3	61.4	56.0	73.0	0.0	73.4	74.0	70	Y	-	-	8.9	Y	Y	Y
N4793	6	42.4	Area 48	-	0.0	65.1	54.7	61.5	56.1	73.0	0.0	73.5	74.1	70	Y	-	-	9.0	Y	Y	Y
N4793	7	45.1	Area 48	-	0.0	65.0	55.3	61.5	56.1	73.1	0.0	73.5	74.1	70	Y	-	-	9.1	Y	Y	Y
N4793	8	47.9	Area 48	-	0.0	64.9	55.8	61.4	56.1	73.1	0.0	73.5	74.1	70	Y	-	-	9.2	Y	Y	Y
N4793	9	50.6	Area 48	-	0.0	64.8	56.0	61.4	56.1	73.1	0.0	73.5	74.1	70	Y	-	-	9.3	Y	Y	Y
N4793	10	53.4	Area 48	-	0.0	64.7	56.1	61.4	56.1	73.1	0.0	73.6	74.1	70	Y	-	-	9.4	Y	Y	Y
N4793	11	56.1	Area 48	-	0.0	64.6	56.5	61.3	56.1	73.1	0.0	73.6	74.1	70	Y	-	-	9.5	Y	Y	Y
N4793	12	58.9	Area 48	-	0.0	64.5	56.9	61.2	56.1	73.2	0.0	73.6	74.1	70	Y	-	-	9.6	Y	Y	Y
N4793	13	61.6	Area 48	-	0.0	64.4	57.4	61.2	56.1	73.2	0.0	73.7	74.2	70	Y	-	-	9.8	Y	Y	Y
N4793	14	64.4	Area 48	-	0.0	64.3	57.8	61.2	56.1	73.3	0.0	73.8	74.2	70	Y	-	-	9.9	Y	Y	Y
N4793	15	67.1	Area 48	-	0.0	64.3	58.2	61.2	56.1	73.4	0.0	73.8	74.3	70	Y	-	-	10.0	Y	Y	Y
N4793	16	69.9	Area 48	-	0.0	64.1	58.5	61.2	56.1	73.4	0.0	73.9	74.3	70	Y	-	-	10.2	Y	Y	Y
N4793	17	72.6	Area 48	-	0.0	64.1	58.8	61.3	56.1	73.5	0.0	73.9	74.4	70	Y	-	-	10.3	Y	Y	Y
N4793	18	75.4	Area 48	-	0.0	64.0	59.0	61.3	56.1	73.4	0.0	73.9	74.3	70	Y	-	-	10.3	Y	Y	Y
N4793	19	78.1	Area 48	-	0.0	63.9	59.2	61.3	56.0	73.5	0.0	73.9	74.3	70	Y	-	-	10.4	Y	Y	Y
N4793	20	80.9	Area 48	-	0.0	63.8	59.4	61.2	56.0	73.4	0.0	73.9	74.3	70	Y	-	-	10.5	Y	Y	Y
N4793	21	83.6	Area 48	-	0.0	63.7	59.6	61.2	56.0	73.4	0.0	73.9	74.3	70	Y	-	-	10.6	Y	Y	Y
N4793	22	86.4	Area 48	-	0.0	63.7	59.7	61.2	56.0	73.4	0.0	73.9	74.3	70	Y	-	-	10.6	Y	Y	Y
N4793	23	89.1	Area 48	-	0.0	63.6	59.9	61.1	55.9	73.4	0.0	73.9	74.3	70	Y	-	-	10.7	Y	Y	Y
N4793	24	91.9	Area 48	-	0.0	63.5	60.0	61.1	55.9	73.4	0.0	73.9	74.2	70	Y	-	-	10.7	Y	Y	Y
N4793	25	94.6	Area 48	-	0.0	63.4	60.0	61.1	55.9	73.3	0.0	73.8	74.2	70	Y	-	-	10.8	Y	Y	Y
N4793	26	97.4	Area 48	-	0.0	63.4	60.1	61.0	55.8	73.3	0.0	73.8	74.2	70	Y	-	-	10.8	Y	Y	Y
N4793	27	100.1	Area 48	-	0.0	63.3	60.2	61.0	55.8	73.3	0.0	73.8	74.2	70	Y	-	-	10.9	Y	Y	Y
N4793	28	102.9	Area 48	-	0.0	63.3	60.2	60.9	55.8	73.2	0.0	73.7	74.1	70	Y	-	-	10.8	Y	Y	Y
N4793	29	105.6	Area 48	-	0.0	63.2	60.3	60.8	55.8	73.2	0.0	73.7	74.1	70	Y	-	-	10.9	Y	Y	Y
N4793	30	108.4	Area 48	-	0.0	63.2	60.4	60.8	55.7	73.1	0.0	73.7	74.0	70	Y	-	-	10.8	Y	Y	Y
N4793	31	111.1	Area 48	-	0.0	63.1	60.4	60.7	55.7	73.1	0.0	73.6	74.0	70	Y	-	-	10.9	Y	Y	Y
N4793	32	113.9	Area 48	-	0.0	63.1	60.6	60.7	55.7	73.0	0.0	73.6	74.0	70	Y	-	-	10.9	Y	Y	Y
N4793	33	116.6	Area 48	-	0.0	63.1	60.8	60.6	55.6	73.0	0.0	73.6	73.9	70	Y	-	-	10.8	Y	Y	Y
N4793	34	119.4	Area 48	-	0.0	63.1	61.0	60.5	55.6	73.0	0.0	73.5	73.9	70	Y	-	-	10.8	Y	Y	Y
N4793	35	122.1	Area 48	-	0.0	63.2	61.1	60.5	55.6	72.9	0.0	73.5	73.9	70	Y	-	-	10.7	Y	Y	Y
N4793	36	124.9	Area 48	-	0.0	63.3	61.2	60.4	55.6	72.9	0.0	73.5	73.9	70	Y	-	-	10.6	Y	Y	Y
N4793	37	127.6	Area 48	-	0.0	63.5	61.4	60.3	55.5	72.8	0.0	73.4	73.9	70	Y	-	-	10.4	Y	Y	Y
N4793	38	130.4	Area 48	-	0.0	63.9	61.8	60.3	55.5	72.8	0.0	73.4	73.9	70	Y	-	-	10.0	Y	Y	Y
N4793	39	133.1	Area 48	-	0.0	64.2	62.3	60.2	55.5	72.8	0.0	73.4	73.9	70	Y	-	-	9.7	Y	Y	Y
N4794	1	28.6	Area 48	-	0.0	66.0	53.1	60.4	56.3	72.5	0.0	72.9	73.7	70	Y	-	-	7.7	Y	Y	Y
N4794	2	31.4	Area 48	-	0.0	66.0	53.4	60.9	56.5	72.8	0.0	73.2	73.9	70	Y	-	-	7.9	Y	Y	Y
N4794	3	34.1	Area 48	-	0.0	66.1	53.8	61.1	56.6	72.9	0.0	73.4	74.1	70	Y	-	-	8.0	Y	Y	Y
N4794	4	36.9	Area 48	-	0.0	66.0	54.1	61.3	56.6	73.0	0.0	73.4	74.2	70	Y	-	-	8.2	Y	Y	Y
N4794	5	39.6	Area 48	-	0.0	66.0	54.5	61.4	56.6	73.1	0.0	73.5	74.2	70	Y	-	-	8.2	Y	Y	Y
N4794	6	42.4	Area 48	-	0.0	65.9	55.0	61.5	56.6	73.2	0.0	73.6	74.3	70	Y	-	-	8.4	Y	Y	Y
N4794	7	45.1	Area 48	-	0.0	65.8	55.6	61.5	56.6	73.2	0.0	73.6	74.3	70	Y	-	-	8.5	Y	Y	Y
N4794	8	47.9	Area 48	-	0.0	65.7	56.1	61.6	56.6	73.2	0.0	73.7	74.3	70	Y	-	-	8.6	Y	Y	Y
N4794	9	50.6	Area 48	-	0.0	65.7	56.3	61.5	56.6	73.2	0.0	73.7	74.3	70	Y	-	-	8.6	Y	Y	Y
N4794	10	53.4	Area 48	-	0.0	65.6	56.5	61.5	56.6	73.2	0.0	73.7	74.3	70	Y	-	-	8.7	Y	Y	Y
N4794	11	56.1	Area 48	-	0.0	65.5	56.8	61.5	56.6	73.3	0.0	73.7	74.3	70	Y	-	-	8.8	Y	Y	Y
N4794	12	58.9	Area 48	-	0.0	65.4	57.2	61.4	56.6	73.3	0.0	73.7	74.3	70	Y	-	-	8.9	Y	Y	Y
N4794	13	61.6	Area 48	-	0.0	65.3	57.6	61.4	56.7	73.4	0.0	73.8	74.4	70	Y	-	-	9.1	Y	Y	Y
N4794	14	64.4	Area 48	-	0.0	65.3	58.0	61.4	56.7	73.4	0.0	73.9	74.5	70	Y	-	-	9.2	Y	Y	Y
N4794	15	67.1	Area 48	-	0.0	65.1	58.4	61.3	56.7	73.5	0.0	74.0	74.5	70	Y	-	-	9.4	Y	Y	Y
N4794	16	69.9	Area 48	-	0.0	65.1	58.7	61.4	56.7	73.6	0.0	74.1	74.6	70	Y	-	-	9.5	Y	Y	Y
N4794	17	72.6	Area 48	-	0.0	65.0	59.1	61.4	56.6	73.6	0.0	74.1	74.6	70	Y	-	-	9.6	Y	Y	Y
N4794	18	75.4	Area 48	-	0.0	64.9	59.3	61.5	56.6	73.6	0.0	74.1	74.6	70	Y	-	-	9.7	Y	Y	Y
N4794	19	78.1	Area 48	-	0.0	64.8	59.5	61.4	56.6	73.6	0.0	74.1	74.6	70	Y	-	-	9.8	Y	Y	Y
N4794	20	80.9	Area 48	-	0.0	64.7	59.7	61.4	56.5	73.6	0.0	74.1	74.5	70	Y	-	-	9.8	Y	Y	Y
N4794	21	83.6	Area 48	-	0.0	64.7	59.9	61.4	56.5	73.5	0.0	74.0	74.5	70	Y	-	-	9.8	Y	Y	Y
N4794	22	86.4	Area 48	-	0.0	64.5	60.0	61.3	56.5	73.5	0.0	74.0	74.5	70	Y	-	-	10.0	Y	Y	Y
N4794	23	89.1	Area 48	-	0.0	64.5	60.2	61.3	56.4	73.4	0.0	74.0	74.4	70	Y	-	-	9.9	Y	Y	Y
N4794	24	91.9	Area 48	-	0.0	64.4	60.3	61.2	56.4	73.4	0.0	73.9	74.4	70	Y	-	-	10.0	Y	Y	Y
N4794	25	94.6	Area 48	-	0.0	64.4	60.3	61.1	56.4	73.4	0.0	73.9	74.4	70	Y	-	-	10.0	Y	Y	Y
N4794	26	97.4	Area 48	-	0.0	64.3	60.4	61.0	56.4	73.3	0.0	73.8	74.3	70	Y	-	-	10.0	Y	Y	Y
N4794	27	100.1	Area 48	-	0.0	64.2	60.5	61.0	56.3	73.3	0.0	73.8	74.3	70	Y	-	-	10.1	Y	Y	Y
N4794	28	102.9	Area 48	-	0.0	64.2	60.5	60.9	56.3	73.2	0.0	73.8	74.2	70	Y	-	-	10.0	Y	Y	Y
N4794	29	105.6	Area 48	-	0.0	64.1	60.6	60.8	56.3	73.2	0.0	73.7	74.2	70	Y	-	-	10.1	Y	Y	Y
N4794	30	108.4	Area 48	-	0.0	64.1	60.7	60.8	56.2	73.1	0.0	73.7	74.1	70	Y	-	-	10.0	Y	Y	Y
N4794	31	111.1	Area 48	-	0.0	63.9	60.7	60.7	56.2	73.1	0.0	73.6	74.1	70	Y	-	-	10.2	Y	Y	Y
N4794	32	113.9	Area 48	-	0.0	63.8	60.8	60.6	56.2	73.0	0.0	73.6	74.0	70	Y	-	-	10.2	Y	Y	Y
N4794	33	116.6	Area 48	-	0.0	63.9	60.9	60.6	56.1	73.0	0.0	73.6	74.0	70	Y	-	-	10.1	Y	Y	Y

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N4794	34	119.4	Area 48	-	0.0	63.8	61.1	60.5	56.1	72.9	0.0	73.5	74.0	70	Y	-	-	10.2	Y	Y	Y
N4794	35	122.1	Area 48	-	0.0	63.8	61.1	60.4	56.1	72.9	0.0	73.5	73.9	70	Y	-	-	10.1	Y	Y	Y
N4794	36	124.9	Area 48	-	0.0	63.8	61.2	60.4	56.0	72.9	0.0	73.5	73.9	70	Y	-	-	10.1	Y	Y	Y
N4794	37	127.6	Area 48	-	0.0	63.8	61.4	60.3	56.0	72.8	0.0	73.4	73.9	70	Y	-	-	10.1	Y	Y	Y
N4794	38	130.4	Area 48	-	0.0	64.0	61.5	60.2	56.0	72.8	0.0	73.4	73.8	70	Y	-	-	9.8	Y	Y	Y
N4794	39	133.1	Area 48	-	0.0	64.2	61.8	60.2	55.9	72.7	0.0	73.4	73.8	70	Y	-	-	9.6	Y	Y	Y
N4795	1	28.6	Area 48	-	0.0	66.3	53.3	60.5	56.3	72.6	0.0	73.0	73.8	70	Y	-	-	7.5	Y	Y	Y
N4795	2	31.4	Area 48	-	0.0	66.3	53.6	60.8	56.5	72.8	0.0	73.2	74.0	70	Y	-	-	7.7	Y	Y	Y
N4795	3	34.1	Area 48	-	0.0	66.4	53.9	61.2	56.6	73.0	0.0	73.4	74.2	70	Y	-	-	7.8	Y	Y	Y
N4795	4	36.9	Area 48	-	0.0	66.4	54.3	61.4	56.6	73.1	0.0	73.5	74.3	70	Y	-	-	7.9	Y	Y	Y
N4795	5	39.6	Area 48	-	0.0	66.3	54.7	61.5	56.6	73.1	0.0	73.6	74.3	70	Y	-	-	8.0	Y	Y	Y
N4795	6	42.4	Area 48	-	0.0	66.2	55.1	61.6	56.7	73.2	0.0	73.6	74.3	70	Y	-	-	8.1	Y	Y	Y
N4795	7	45.1	Area 48	-	0.0	66.1	55.6	61.6	56.6	73.2	0.0	73.7	74.4	70	Y	-	-	8.3	Y	Y	Y
N4795	8	47.9	Area 48	-	0.0	66.1	56.2	61.6	56.6	73.2	0.0	73.7	74.4	70	Y	-	-	8.3	Y	Y	Y
N4795	9	50.6	Area 48	-	0.0	65.9	56.3	61.6	56.6	73.3	0.0	73.7	74.4	70	Y	-	-	8.5	Y	Y	Y
N4795	10	53.4	Area 48	-	0.0	65.9	56.5	61.5	56.6	73.2	0.0	73.7	74.4	70	Y	-	-	8.5	Y	Y	Y
N4795	11	56.1	Area 48	-	0.0	65.7	56.8	61.5	56.6	73.3	0.0	73.7	74.4	70	Y	-	-	8.7	Y	Y	Y
N4795	12	58.9	Area 48	-	0.0	65.7	57.1	61.5	56.6	73.3	0.0	73.7	74.4	70	Y	-	-	8.7	Y	Y	Y
N4795	13	61.6	Area 48	-	0.0	65.6	57.5	61.4	56.6	73.3	0.0	73.8	74.4	70	Y	-	-	8.8	Y	Y	Y
N4795	14	64.4	Area 48	-	0.0	65.5	58.0	61.4	56.7	73.4	0.0	73.9	74.5	70	Y	-	-	9.0	Y	Y	Y
N4795	15	67.1	Area 48	-	0.0	65.4	58.4	61.3	56.7	73.4	0.0	73.9	74.5	70	Y	-	-	9.1	Y	Y	Y
N4795	16	69.9	Area 48	-	0.0	65.3	58.7	61.3	56.6	73.5	0.0	73.9	74.5	70	Y	-	-	9.2	Y	Y	Y
N4795	17	72.6	Area 48	-	0.0	65.3	59.0	61.4	56.6	73.5	0.0	74.0	74.5	70	Y	-	-	9.2	Y	Y	Y
N4795	18	75.4	Area 48	-	0.0	65.1	59.2	61.3	56.6	73.4	0.0	73.9	74.5	70	Y	-	-	9.4	Y	Y	Y
N4795	19	78.1	Area 48	-	0.0	65.1	59.4	61.3	56.5	73.4	0.0	73.9	74.4	70	Y	-	-	9.3	Y	Y	Y
N4795	20	80.9	Area 48	-	0.0	65.0	59.6	61.3	56.5	73.4	0.0	73.9	74.4	70	Y	-	-	9.4	Y	Y	Y
N4795	21	83.6	Area 48	-	0.0	64.9	59.8	61.2	56.5	73.3	0.0	73.8	74.4	70	Y	-	-	9.5	Y	Y	Y
N4795	22	86.4	Area 48	-	0.0	64.8	59.9	61.1	56.4	73.3	0.0	73.8	74.3	70	Y	-	-	9.5	Y	Y	Y
N4795	23	89.1	Area 48	-	0.0	64.7	60.0	61.1	56.4	73.3	0.0	73.8	74.3	70	Y	-	-	9.6	Y	Y	Y
N4795	24	91.9	Area 48	-	0.0	64.7	60.1	61.0	56.4	73.2	0.0	73.7	74.2	70	Y	-	-	9.5	Y	Y	Y
N4795	25	94.6	Area 48	-	0.0	64.6	60.2	61.0	56.4	73.2	0.0	73.7	74.2	70	Y	-	-	9.6	Y	Y	Y
N4795	26	97.4	Area 48	-	0.0	64.6	60.3	60.9	56.3	73.1	0.0	73.7	74.2	70	Y	-	-	9.6	Y	Y	Y
N4795	27	100.1	Area 48	-	0.0	64.5	60.3	60.8	56.3	73.0	0.0	73.6	74.1	70	Y	-	-	9.6	Y	Y	Y
N4795	28	102.9	Area 48	-	0.0	64.4	60.5	60.7	56.3	73.0	0.0	73.6	74.1	70	Y	-	-	9.7	Y	Y	Y
N4795	29	105.6	Area 48	-	0.0	64.3	60.5	60.7	56.2	73.0	0.0	73.5	74.0	70	Y	-	-	9.7	Y	Y	Y
N4795	30	108.4	Area 48	-	0.0	64.2	60.6	60.6	56.2	72.9	0.0	73.5	74.0	70	Y	-	-	9.8	Y	Y	Y
N4795	31	111.1	Area 48	-	0.0	64.2	60.6	60.5	56.2	72.9	0.0	73.5	73.9	70	Y	-	-	9.7	Y	Y	Y
N4795	32	113.9	Area 48	-	0.0	64.1	60.7	60.4	56.1	72.8	0.0	73.4	73.9	70	Y	-	-	9.8	Y	Y	Y
N4795	33	116.6	Area 48	-	0.0	64.1	60.8	60.4	56.1	72.8	0.0	73.3	73.8	70	Y	-	-	9.7	Y	Y	Y
N4795	34	119.4	Area 48	-	0.0	64.1	60.9	60.3	56.1	72.7	0.0	73.3	73.8	70	Y	-	-	9.7	Y	Y	Y
N4795	35	122.1	Area 48	-	0.0	64.0	61.1	60.2	56.0	72.7	0.0	73.3	73.8	70	Y	-	-	9.8	Y	Y	Y
N4795	36	124.9	Area 48	-	0.0	64.0	61.2	60.2	56.0	72.6	0.0	73.2	73.7	70	Y	-	-	9.7	Y	Y	Y
N4795	37	127.6	Area 48	-	0.0	64.0	61.2	60.1	56.0	72.6	0.0	73.2	73.7	70	Y	-	-	9.7	Y	Y	Y
N4795	38	130.4	Area 48	-	0.0	64.1	61.4	60.0	55.9	72.5	0.0	73.2	73.7	70	Y	-	-	9.6	Y	Y	Y
N4795	39	133.1	Area 48	-	0.0	64.2	61.7	59.9	55.9	72.5	0.0	73.1	73.7	70	Y	-	-	9.5	Y	Y	Y
N4796	1	28.6	Area 48	-	0.0	67.9	51.7	60.0	54.7	69.7	0.0	70.3	72.3	70	Y	-	-	4.4	Y	N	Y
N4796	2	31.4	Area 48	-	0.0	67.9	52.0	60.0	54.8	70.0	0.0	70.6	72.5	70	Y	-	-	4.6	Y	Y	Y
N4796	3	34.1	Area 48	-	0.0	67.9	52.4	60.1	54.8	70.2	0.0	70.8	72.6	70	Y	-	-	4.7	Y	Y	Y
N4796	4	36.9	Area 48	-	0.0	67.7	52.8	60.1	54.8	70.3	0.0	70.9	72.6	70	Y	-	-	4.9	Y	Y	Y
N4796	5	39.6	Area 48	-	0.0	67.7	53.3	60.0	54.8	70.5	0.0	71.0	72.7	70	Y	-	-	5.0	Y	Y	Y
N4796	6	42.4	Area 48	-	0.0	67.6	53.6	60.0	54.8	70.5	0.0	71.1	72.7	70	Y	-	-	5.1	Y	Y	Y
N4796	7	45.1	Area 48	-	0.0	67.4	53.9	59.9	54.7	70.6	0.0	71.1	72.6	70	Y	-	-	5.2	Y	Y	Y
N4796	8	47.9	Area 48	-	0.0	67.4	54.5	59.9	54.7	70.6	0.0	71.2	72.7	70	Y	-	-	5.3	Y	Y	Y
N4796	9	50.6	Area 48	-	0.0	67.3	54.7	59.8	54.6	70.6	0.0	71.2	72.7	70	Y	-	-	5.4	Y	Y	Y
N4796	10	53.4	Area 48	-	0.0	67.2	55.0	59.7	54.6	70.6	0.0	71.2	72.6	70	Y	-	-	5.4	Y	Y	Y
N4796	11	56.1	Area 48	-	0.0	67.1	55.2	59.7	54.6	70.6	0.0	71.1	72.6	70	Y	-	-	5.5	Y	Y	Y
N4796	12	58.9	Area 48	-	0.0	67.1	55.5	59.6	54.5	70.6	0.0	71.1	72.6	70	Y	-	-	5.5	Y	Y	Y
N4796	13	61.6	Area 48	-	0.0	66.9	55.9	59.5	54.5	70.6	0.0	71.1	72.5	70	Y	-	-	5.6	Y	Y	Y
N4796	14	64.4	Area 48	-	0.0	66.9	56.3	59.5	54.5	70.6	0.0	71.1	72.5	70	Y	-	-	5.6	Y	Y	Y
N4796	15	67.1	Area 48	-	0.0	66.8	56.7	59.4	54.4	70.5	0.0	71.1	72.5	70	Y	-	-	5.7	Y	Y	Y
N4796	16	69.9	Area 48	-	0.0	66.7	56.9	59.3	54.4	70.5	0.0	71.1	72.5	70	Y	-	-	5.8	Y	Y	Y
N4796	17	72.6	Area 48	-	0.0	66.6	57.2	59.3	54.3	70.5	0.0	71.1	72.4	70	Y	-	-	5.8	Y	Y	Y
N4796	18	75.4	Area 48	-	0.0	66.6	57.5	59.2	54.3	70.4	0.0	71.1	72.4	70	Y	-	-	5.8	Y	Y	Y
N4796	19	78.1	Area 48	-	0.0	66.5	57.6	59.1	54.2	70.4	0.0	71.0	72.3	70	Y	-	-	5.8	Y	Y	Y
N4796	20	80.9	Area 48	-	0.0	66.4	57.8	59.0	54.2	70.3	0.0	71.0	72.3	70	Y	-	-	5.9	Y	Y	Y
N4796	21	83.6	Area 48	-	0.0	66.3	58.0	58.9	54.2	70.3	0.0	70.9	72.2	70	Y	-	-	5.9	Y	Y	Y
N4796	22	86.4	Area 48	-	0.0	66.2	58.1	58.9	54.1	70.2	0.0	70.9	72.2	70	Y	-	-	6.0	Y	Y	Y
N4796	23	89.1	Area 48	-	0.0	66.2	58.2	58.8	54.1	70.2	0.0	70.8	72.1	70	Y	-	-	5.9	Y	Y	Y
N4796	24	91.9	Area 48	-	0.0	66.1	58.2	58.7	54.1	70.1	0.0	70.8	72.0	70	Y	-	-	5.9	Y	Y	Y
N4796	25	94.6	Area 48	-	0.0	66.1	58.3	58.6	54.0	70.1	0.0	70.7	72.0	70	Y	-	-	5.9	Y	Y	Y
N4796	26	97.4	Area 48	-	0.0	66.0	58.4	58.5	54.0	70.0	0.0	70.7	71.9	70	Y	-	-	5.9	Y	Y	Y
N4796	27	100.1	Area 48	-	0.0	65.8	58.4	58.5	53.9	70.0	0.0	70.7	71.9	70	Y	-	-	6.1	Y	Y	Y
N4796	28	102.9	Area 48	-	0.0	65.8	58.5	58.4	53.9	69.9	0.0	70.6	71.8	70	Y	-	-	6.0	Y	Y	Y
N4796	29	105.6	Area 48	-	0.0	65.7	58.6	58.3	53.9	69.9	0.0	70.5	71.8	70	Y	-	-	6.1	Y	Y	Y
N4796	30	108.4	Area 48	-	0.0	65.7	58.6	58.2	53.8	69.8	0.0	70.5	71.7	70	Y	-	-	6.0	Y	Y	Y
N4796	31	111.1	Area 48	-	0.0	65.6	58.8	58.2	53.8	69.8	0.0	70.5	71.7	70	Y	-	-	6.1	Y	Y	Y
N4796	32	113.9	Area 48	-	0.0	65.5	58.9	58.1	53.7	69.7	0.0	70.4	71.6	70	Y	-	-	6.1	Y	N	Y
N4796	33	116.6	Area 48	-	0.0	65.5	59.0	58.0	53.7	69.7	0.0	70.4	71.6	70	Y	-	-	6.1	Y	N	Y
N4796	34	119.4	Area 48	-	0.0	65.4	59.2	57.9	53.6	69.6	0.0	70.3	71.6	70	Y	-	-	6.2	Y	N	Y
N4796	35	122.1	Area 48	-	0.0	65.4	59.6	57.9	53.6	69.5	0.0	70.3	71.5	70	Y	-	-	6.1	Y	N	Y
N4796	36	124.9	Area 48	-	0.0	65.3	59.9	57.8	53.5	69.5	0.0	70.3	71.5	70	Y	-	-	6.2	Y	N	Y
N4796	37	127.6	Area 48	-	0.0	65.3	60.2	57.7	53.5	69.5	0.0	70.3	71.5	70	Y	-	-	6.2	Y	N	Y
N4796	38	130.4	Area 48	-	0.0	65.3	60.6	57.6	53.5	69.4	0.0	70.3	71.5	70	Y	-	-	6.2	Y	N	Y
N4796	39	133.1	Area 48	-	0.0	65.2	61.1	57.6	53.4	69.3	0.0	70.3	71.5	70	Y	-	-	6.3	Y	N	Y
N4797	1	28.6	Area 48	-	0.0	69.5	54.7	61.9	56.8	73.5	0.0	73.9	75.3	70	Y	-	-	5.8	Y	Y	Y
N4797	2	31.4	Area 48	-	0.0	69.4	55.1	62.3	57.0	73.8	0.0	74.2	75.5	70	Y	-	-	6.1	Y	Y	Y

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N4797	3	34.1	Area 48	-	0.0	69.2	55.4	62.5	57.1	73.9	0.0	74.4	75.5	70	Y	-	-	6.3	Y	Y	Y
N4797	4	36.9	Area 48	-	0.0	69.1	55.8	62.7	57.1	74.1	0.0	74.5	75.6	70	Y	-	-	6.5	Y	Y	Y
N4797	5	39.6	Area 48	-	0.0	68.9	56.3	62.8	57.1	74.1	0.0	74.6	75.6	70	Y	-	-	6.7	Y	Y	Y
N4797	6	42.4	Area 48	-	0.0	68.8	56.7	62.8	57.1	74.2	0.0	74.7	75.7	70	Y	-	-	6.9	Y	Y	Y
N4797	7	45.1	Area 48	-	0.0	68.7	57.2	62.8	57.1	74.3	0.0	74.7	75.7	70	Y	-	-	7.0	Y	Y	Y
N4797	8	47.9	Area 48	-	0.0	68.5	57.6	62.8	57.1	74.2	0.0	74.7	75.6	70	Y	-	-	7.1	Y	Y	Y
N4797	9	50.6	Area 48	-	0.0	68.4	57.7	62.8	57.0	74.3	0.0	74.7	75.7	70	Y	-	-	7.3	Y	Y	Y
N4797	10	53.4	Area 48	-	0.0	68.3	58.0	62.7	57.1	74.3	0.0	74.7	75.6	70	Y	-	-	7.3	Y	Y	Y
N4797	11	56.1	Area 48	-	0.0	68.2	58.3	62.7	57.1	74.3	0.0	74.8	75.6	70	Y	-	-	7.4	Y	Y	Y
N4797	12	58.9	Area 48	-	0.0	68.1	58.7	62.6	57.1	74.3	0.0	74.8	75.6	70	Y	-	-	7.5	Y	Y	Y
N4797	13	61.6	Area 48	-	0.0	68.0	59.2	62.6	57.1	74.4	0.0	74.8	75.6	70	Y	-	-	7.6	Y	Y	Y
N4797	14	64.4	Area 48	-	0.0	67.9	59.5	62.5	57.1	74.4	0.0	74.9	75.7	70	Y	-	-	7.8	Y	Y	Y
N4797	15	67.1	Area 48	-	0.0	67.8	59.9	62.5	57.1	74.4	0.0	74.9	75.7	70	Y	-	-	7.9	Y	Y	Y
N4797	16	69.9	Area 48	-	0.0	67.7	60.2	62.5	57.0	74.4	0.0	74.9	75.7	70	Y	-	-	8.0	Y	Y	Y
N4797	17	72.6	Area 48	-	0.0	67.6	60.4	62.5	57.0	74.4	0.0	74.9	75.6	70	Y	-	-	8.0	Y	Y	Y
N4797	18	75.4	Area 48	-	0.0	67.6	60.7	62.4	57.0	74.4	0.0	74.9	75.6	70	Y	-	-	8.0	Y	Y	Y
N4797	19	78.1	Area 48	-	0.0	67.4	60.8	62.4	56.9	74.3	0.0	74.8	75.6	70	Y	-	-	8.2	Y	Y	Y
N4797	20	80.9	Area 48	-	0.0	67.4	61.0	62.3	56.9	74.3	0.0	74.8	75.5	70	Y	-	-	8.1	Y	Y	Y
N4797	21	83.6	Area 48	-	0.0	67.3	61.2	62.2	56.9	74.3	0.0	74.8	75.5	70	Y	-	-	8.2	Y	Y	Y
N4797	22	86.4	Area 48	-	0.0	67.2	61.3	62.2	56.8	74.2	0.0	74.7	75.4	70	Y	-	-	8.2	Y	Y	Y
N4797	23	89.1	Area 48	-	0.0	67.1	61.4	62.1	56.8	74.2	0.0	74.7	75.4	70	Y	-	-	8.3	Y	Y	Y
N4797	24	91.9	Area 48	-	0.0	67.0	61.5	62.0	56.8	74.1	0.0	74.7	75.3	70	Y	-	-	8.3	Y	Y	Y
N4797	25	94.6	Area 48	-	0.0	67.0	61.6	61.9	56.8	74.0	0.0	74.6	75.3	70	Y	-	-	8.3	Y	Y	Y
N4797	26	97.4	Area 48	-	0.0	66.9	61.6	61.9	56.7	74.0	0.0	74.6	75.3	70	Y	-	-	8.4	Y	Y	Y
N4797	27	100.1	Area 48	-	0.0	66.9	61.7	61.8	56.7	74.0	0.0	74.5	75.2	70	Y	-	-	8.3	Y	Y	Y
N4797	28	102.9	Area 48	-	0.0	66.7	61.7	61.7	56.7	73.9	0.0	74.5	75.1	70	Y	-	-	8.4	Y	Y	Y
N4797	29	105.6	Area 48	-	0.0	66.6	61.8	61.6	56.6	73.9	0.0	74.4	75.1	70	Y	-	-	8.5	Y	Y	Y
N4797	30	108.4	Area 48	-	0.0	66.6	61.8	61.5	56.6	73.8	0.0	74.4	75.1	70	Y	-	-	8.5	Y	Y	Y
N4797	31	111.1	Area 48	-	0.0	66.5	61.9	61.5	56.6	73.7	0.0	74.3	75.0	70	Y	-	-	8.5	Y	Y	Y
N4797	32	113.9	Area 48	-	0.0	66.5	62.0	61.4	56.5	73.7	0.0	74.3	75.0	70	Y	-	-	8.5	Y	Y	Y
N4797	33	116.6	Area 48	-	0.0	66.4	62.1	61.3	56.5	73.6	0.0	74.2	74.9	70	Y	-	-	8.5	Y	Y	Y
N4797	34	119.4	Area 48	-	0.0	66.3	62.2	61.2	56.5	73.6	0.0	74.2	74.9	70	Y	-	-	8.6	Y	Y	Y
N4797	35	122.1	Area 48	-	0.0	66.3	62.3	61.2	56.4	73.6	0.0	74.2	74.8	70	Y	-	-	8.5	Y	Y	Y
N4797	36	124.9	Area 48	-	0.0	66.2	62.5	61.1	56.4	73.5	0.0	74.1	74.8	70	Y	-	-	8.6	Y	Y	Y
N4797	37	127.6	Area 48	-	0.0	66.2	62.7	61.0	56.4	73.4	0.0	74.1	74.8	70	Y	-	-	8.6	Y	Y	Y
N4797	38	130.4	Area 48	-	0.0	66.1	62.9	61.0	56.3	73.4	0.0	74.1	74.7	70	Y	-	-	8.6	Y	Y	Y
N4797	39	133.1	Area 48	-	0.0	66.1	63.2	60.9	56.3	73.3	0.0	74.0	74.7	70	Y	-	-	8.6	Y	Y	Y
N4798	1	28.6	Area 48	-	32.3	66.8	53.9	60.3	56.2	72.9	0.0	73.2	74.1	70	Y	-	-	7.3	Y	Y	Y
N4798	2	31.4	Area 48	-	32.6	66.6	54.2	60.7	56.4	73.1	0.0	73.5	74.3	70	Y	-	-	7.7	Y	Y	Y
N4798	3	34.1	Area 48	-	33.1	66.5	54.5	61.1	56.5	73.3	0.0	73.7	74.4	70	Y	-	-	7.9	Y	Y	Y
N4798	4	36.9	Area 48	-	33.7	66.4	55.0	61.4	56.6	73.4	0.0	73.8	74.5	70	Y	-	-	8.1	Y	Y	Y
N4798	5	39.6	Area 48	-	34.4	66.2	55.5	61.6	56.6	73.5	0.0	73.9	74.6	70	Y	-	-	8.4	Y	Y	Y
N4798	6	42.4	Area 48	-	35.0	66.1	55.9	61.6	56.6	73.6	0.0	74.0	74.7	70	Y	-	-	8.6	Y	Y	Y
N4798	7	45.1	Area 48	-	35.8	66.0	56.4	61.7	56.6	73.6	0.0	74.1	74.7	70	Y	-	-	8.7	Y	Y	Y
N4798	8	47.9	Area 48	-	36.5	65.9	56.9	61.7	56.6	73.6	0.0	74.1	74.7	70	Y	-	-	8.8	Y	Y	Y
N4798	9	50.6	Area 48	-	37.3	65.8	57.1	61.8	56.6	73.7	0.0	74.1	74.7	70	Y	-	-	8.9	Y	Y	Y
N4798	10	53.4	Area 48	-	38.1	65.6	57.5	61.7	56.7	73.7	0.0	74.2	74.7	70	Y	-	-	9.1	Y	Y	Y
N4798	11	56.1	Area 48	-	38.9	65.6	58.0	61.7	56.7	73.8	0.0	74.2	74.8	70	Y	-	-	9.2	Y	Y	Y
N4798	12	58.9	Area 48	-	39.8	65.5	58.3	61.7	56.9	73.9	0.0	74.3	74.9	70	Y	-	-	9.4	Y	Y	Y
N4798	13	61.6	Area 48	-	40.6	65.4	58.8	61.7	57.0	74.1	0.0	74.5	75.0	70	Y	-	-	9.6	Y	Y	Y
N4798	14	64.4	Area 48	-	41.5	65.3	59.2	61.7	57.0	74.3	0.0	74.7	75.2	70	Y	-	-	9.9	Y	Y	Y
N4798	15	67.1	Area 48	-	42.5	65.2	59.6	61.8	57.0	74.4	0.0	74.8	75.3	70	Y	-	-	10.1	Y	Y	Y
N4798	16	69.9	Area 48	-	43.4	65.1	59.9	61.9	57.0	74.5	0.0	74.9	75.4	70	Y	-	-	10.3	Y	Y	Y
N4798	17	72.6	Area 48	-	44.3	65.0	60.2	62.0	56.9	74.5	0.0	75.0	75.4	70	Y	-	-	10.4	Y	Y	Y
N4798	18	75.4	Area 48	-	45.3	65.0	60.5	62.1	56.9	74.6	0.0	75.0	75.5	70	Y	-	-	10.5	Y	Y	Y
N4798	19	78.1	Area 48	-	46.4	64.9	60.7	62.1	56.9	74.6	0.0	75.1	75.5	70	Y	-	-	10.5	Y	Y	Y
N4798	20	80.9	Area 48	-	47.6	64.8	60.8	62.1	56.9	74.6	0.0	75.1	75.5	70	Y	-	-	10.6	Y	Y	Y
N4798	21	83.6	Area 48	-	48.9	64.8	61.0	62.2	56.8	74.6	0.0	75.1	75.5	70	Y	-	-	10.6	Y	Y	Y
N4798	22	86.4	Area 48	-	50.6	64.7	61.2	62.2	56.8	74.6	0.0	75.1	75.5	70	Y	-	-	10.6	Y	Y	Y
N4798	23	89.1	Area 48	-	52.7	64.7	61.3	62.1	56.8	74.6	0.0	75.1	75.5	70	Y	-	-	10.5	Y	Y	Y
N4798	24	91.9	Area 48	-	54.9	64.6	61.4	62.1	56.8	74.6	0.0	75.1	75.5	70	Y	-	-	10.5	Y	Y	Y
N4798	25	94.6	Area 48	-	56.6	64.4	61.5	62.1	56.7	74.6	0.0	75.1	75.5	70	Y	-	-	10.4	Y	Y	Y
N4798	26	97.4	Area 48	-	57.5	64.4	61.6	62.0	56.7	74.6	0.0	75.1	75.5	70	Y	-	-	10.3	Y	Y	Y
N4798	27	100.1	Area 48	-	58.1	64.3	61.7	62.0	56.7	74.7	0.0	75.2	75.6	70	Y	-	-	10.4	Y	Y	Y
N4798	28	102.9	Area 48	-	58.4	64.3	61.7	62.0	56.7	74.7	0.0	75.2	75.6	70	Y	-	-	10.3	Y	Y	Y
N4798	29	105.6	Area 48	-	58.6	64.2	61.8	61.9	56.6	74.6	0.0	75.1	75.6	70	Y	-	-	10.3	Y	Y	Y
N4798	30	108.4	Area 48	-	58.8	64.2	61.8	61.8	56.6	74.6	0.0	75.1	75.5	70	Y	-	-	10.2	Y	Y	Y
N4798	31	111.1	Area 48	-	58.9	64.1	61.8	61.8	56.6	74.6	0.0	75.1	75.5	70	Y	-	-	10.3	Y	Y	Y
N4798	32	113.9	Area 48	-	59.1	64.0	61.9	61.7	56.5	74.6	0.0	75.1	75.5	70	Y	-	-	10.3	Y	Y	Y
N4798	33	116.6	Area 48	-	59.1	63.9	61.9	61.7	56.5	74.5	0.0	75.0	75.4	70	Y	-	-	10.3	Y	Y	Y
N4798	34	119.4	Area 48	-	59.2	63.9	61.9	61.6	56.5	74.5	0.0	75.0	75.4	70	Y	-	-	10.2	Y	Y	Y
N4798	35	122.1	Area 48	-	59.3	63.8	61.9	61.6	56.5	74.4	0.0	74.9	75.4	70	Y	-	-	10.3	Y	Y	Y
N4798	36	124.9	Area 48	-	59.3	63.7	62.0	61.5	56.4	74.4	0.0	74.9	75.3	70	Y	-	-	10.3	Y	Y	Y
N4798	37	127.6	Area 48	-	59.3	63.7	61.9	61.4	56.4	74.4	0.0	74.9	75.3	70	Y	-	-	10.3	Y	Y	Y
N4798	38	130.4	Area 48	-	59.3	63.6	61.9	61.4	56.4	74.3	0.0	74.8	75.2	70	Y	-	-	10.2	Y	Y	Y
N4798	39	133.1	Area 48	-	59.3	63.6	62.0	61.3	56.3	74.3	0.0	74.8	75.2	70	Y	-	-	10.2	Y	Y	Y
N4799	1	28.6	Area 48	-	31.5	0.0	0.0	0.0	0.0	34.2	0.0	34.2	36.0	70	N	-	-	4.5	Y	N	N
N4799	2	31.4	Area 48	-	31.8	0.0	0.0	0.0	0.0	34.8	0.0	34.8	36.5	70	N	-	-	4.7	Y	N	N
N4799	3	34.1	Area 48	-	32.2	0.0	0.0	0.0	0.0	35.3	0.0	35.3	37.1	70	N	-	-	4.9	Y	N	N
N4799	4	36.9	Area 48	-	32.8	0.0	0.0	0.0	0.0	36.0	0.0	36.0	37.7	70	N	-	-	4.9	Y	N	N
N4799	5	39.6	Area 48	-	33.5	0.0	0.0	0.0	0.0	36.6	0.0	36.6	38.3	70	N	-	-	4.8	Y	N	N
N4799	6	42.4	Area 48	-	34.2	0.0	0.0	0.0	0.0	37.3	0.0	37.3	39.0	70	N	-	-	4.8	Y	N	N
N4799	7	45.1	Area 48	-	34.9	0.0	0.0	0.0	0.0	38.0	0.0	38.0	39.7	70	N	-	-	4.8	Y	N	N
N4799	8	47.9	Area 48	-	35.6	0.0	0.0	0.0	0.0	38.7	0.0	38.7	40.4	70	N	-	-	4.8	Y	N	N
N4799	9	50.6	Area 48	-	36.4	0.0	0.0	0.0	0.0	39.4	0.0	39.4	41.2	70	N	-	-	4.8	Y	N	N
N4799	10	53.4	Area 48	-	37.2	0.0	0.0	0.0	0.0	40.2	0.0	40.2	41.9	70	N	-	-	4.7	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N4799	11	56.1	Area 48	-	38.1	0.0	0.0	0.0	0.0	41.0	0.0	41.0	42.8	70	N	-	-	4.7	Y	N	N
N4799	12	58.9	Area 48	-	38.9	0.0	0.0	0.0	0.0	41.8	0.0	41.8	43.6	70	N	-	-	4.7	Y	N	N
N4799	13	61.6	Area 48	-	39.7	0.0	0.0	0.0	0.0	42.6	0.0	42.6	44.4	70	N	-	-	4.7	Y	N	N
N4799	14	64.4	Area 48	-	40.6	0.0	0.0	0.0	0.0	43.4	0.0	43.4	45.2	70	N	-	-	4.6	Y	N	N
N4799	15	67.1	Area 48	-	41.4	0.0	0.0	0.0	0.0	44.3	0.0	44.3	46.1	70	N	-	-	4.7	Y	N	N
N4799	16	69.9	Area 48	-	42.3	0.0	0.0	0.0	0.0	45.2	0.0	45.2	47.0	70	N	-	-	4.7	Y	N	N
N4799	17	72.6	Area 48	-	43.3	0.0	0.0	0.0	0.0	46.1	0.0	46.1	48.0	70	N	-	-	4.7	Y	N	N
N4799	18	75.4	Area 48	-	44.2	0.0	0.0	0.0	0.0	47.1	0.0	47.1	48.9	70	N	-	-	4.7	Y	N	N
N4799	19	78.1	Area 48	-	45.2	0.0	0.0	0.0	0.0	48.2	0.0	48.2	50.0	70	N	-	-	4.8	Y	N	N
N4799	20	80.9	Area 48	-	46.4	0.0	0.0	0.0	0.0	49.3	0.0	49.3	51.1	70	N	-	-	4.7	Y	N	N
N4799	21	83.6	Area 48	-	47.7	0.0	0.0	0.0	0.0	50.4	0.0	50.4	52.3	70	N	-	-	4.6	Y	N	N
N4799	22	86.4	Area 48	-	49.3	0.0	0.0	0.0	0.0	51.8	0.0	51.8	53.8	70	N	-	-	4.5	Y	N	N
N4799	23	89.1	Area 48	-	51.4	0.0	0.0	0.0	0.0	53.3	0.0	53.3	55.5	70	N	-	-	4.1	Y	N	N
N4799	24	91.9	Area 48	-	53.5	0.0	0.0	0.0	0.0	55.0	0.0	55.0	57.4	70	N	-	-	3.9	Y	N	N
N4799	25	94.6	Area 48	-	55.1	0.0	0.0	0.0	0.0	57.4	0.0	57.4	59.4	70	N	-	-	4.3	Y	N	N
N4799	26	97.4	Area 48	-	55.9	0.0	0.0	0.0	0.0	59.1	0.0	59.1	60.8	70	N	-	-	4.9	Y	N	N
N4799	27	100.1	Area 48	-	56.4	0.0	0.0	0.0	0.0	60.9	0.0	60.9	62.2	70	N	-	-	5.8	Y	N	N
N4799	28	102.9	Area 48	-	56.8	0.0	0.0	0.0	0.0	61.7	0.0	61.7	62.9	70	N	-	-	6.1	Y	N	N
N4799	29	105.6	Area 48	-	57.0	0.0	0.0	0.0	0.0	62.1	0.0	62.1	63.3	70	N	-	-	6.3	Y	N	N
N4799	30	108.4	Area 48	-	57.2	0.0	0.0	0.0	0.0	62.4	0.0	62.4	63.5	70	N	-	-	6.3	Y	N	N
N4799	31	111.1	Area 48	-	57.4	0.0	0.0	0.0	0.0	62.5	0.0	62.5	63.7	70	N	-	-	6.3	Y	N	N
N4799	32	113.9	Area 48	-	57.6	0.0	0.0	0.0	0.0	62.5	0.0	62.5	63.7	70	N	-	-	6.1	Y	N	N
N4799	33	116.6	Area 48	-	57.7	0.0	0.0	0.0	0.0	62.5	0.0	62.5	63.8	70	N	-	-	6.1	Y	N	N
N4799	34	119.4	Area 48	-	57.8	0.0	0.0	0.0	0.0	62.5	0.0	62.5	63.8	70	N	-	-	6.0	Y	N	N
N4799	35	122.1	Area 48	-	57.8	0.0	0.0	0.0	0.0	62.5	0.0	62.5	63.8	70	N	-	-	6.0	Y	N	N
N4799	36	124.9	Area 48	-	57.8	0.0	0.0	0.0	0.0	62.5	0.0	62.5	63.8	70	N	-	-	6.0	Y	N	N
N4799	37	127.6	Area 48	-	57.9	0.0	0.0	0.0	0.0	62.5	0.0	62.5	63.8	70	N	-	-	5.9	Y	N	N
N4799	38	130.4	Area 48	-	57.9	0.0	0.0	0.0	0.0	62.5	0.0	62.5	63.8	70	N	-	-	5.9	Y	N	N
N4799	39	133.1	Area 48	-	57.9	0.0	0.0	0.0	0.0	62.4	0.0	62.4	63.7	70	N	-	-	5.8	Y	N	N
N4800	1	28.6	Area 48	-	25.4	63.7	52.7	58.1	55.3	71.3	0.0	71.7	72.3	70	Y	-	-	8.6	Y	Y	Y
N4800	2	31.4	Area 48	-	25.9	63.8	53.0	58.5	55.5	71.6	0.0	72.0	72.6	70	Y	-	-	8.8	Y	Y	Y
N4800	3	34.1	Area 48	-	26.4	63.8	53.3	58.9	55.6	71.8	0.0	72.2	72.8	70	Y	-	-	9.0	Y	Y	Y
N4800	4	36.9	Area 48	-	26.9	63.7	53.7	59.3	55.7	72.0	0.0	72.4	73.0	70	Y	-	-	9.3	Y	Y	Y
N4800	5	39.6	Area 48	-	27.4	63.6	54.1	59.6	55.8	72.1	0.0	72.5	73.0	70	Y	-	-	9.4	Y	Y	Y
N4800	6	42.4	Area 48	-	27.9	63.5	54.6	59.8	55.8	72.3	0.0	72.7	73.2	70	Y	-	-	9.7	Y	Y	Y
N4800	7	45.1	Area 48	-	28.5	63.4	55.0	60.0	55.8	72.3	0.0	72.7	73.2	70	Y	-	-	9.8	Y	Y	Y
N4800	8	47.9	Area 48	-	29.0	63.4	55.5	60.0	55.8	72.4	0.0	72.8	73.2	70	Y	-	-	9.8	Y	Y	Y
N4800	9	50.6	Area 48	-	29.7	63.3	56.0	60.1	55.8	72.4	0.0	72.8	73.3	70	Y	-	-	10.0	Y	Y	Y
N4800	10	53.4	Area 48	-	30.3	63.3	56.2	60.2	55.9	72.4	0.0	72.9	73.3	70	Y	-	-	10.0	Y	Y	Y
N4800	11	56.1	Area 48	-	30.9	63.2	56.7	60.1	55.9	72.5	0.0	72.9	73.4	70	Y	-	-	10.2	Y	Y	Y
N4800	12	58.9	Area 48	-	31.6	63.1	57.1	60.2	56.0	72.6	0.0	73.1	73.5	70	Y	-	-	10.4	Y	Y	Y
N4800	13	61.6	Area 48	-	32.2	63.1	57.5	60.1	56.2	72.7	0.0	73.2	73.6	70	Y	-	-	10.5	Y	Y	Y
N4800	14	64.4	Area 48	-	32.9	62.9	58.0	60.2	56.4	73.0	0.0	73.4	73.8	70	Y	-	-	10.9	Y	Y	Y
N4800	15	67.1	Area 48	-	33.6	62.9	58.4	60.2	56.4	73.2	0.0	73.6	74.0	70	Y	-	-	11.1	Y	Y	Y
N4800	16	69.9	Area 48	-	34.3	62.9	58.8	60.3	56.4	73.4	0.0	73.8	74.2	70	Y	-	-	11.3	Y	Y	Y
N4800	17	72.6	Area 48	-	35.1	62.8	59.1	60.5	56.4	73.6	0.0	74.0	74.3	70	Y	-	-	11.5	Y	Y	Y
N4800	18	75.4	Area 48	-	35.8	62.7	59.3	60.6	56.4	73.7	0.0	74.1	74.4	70	Y	-	-	11.7	Y	Y	Y
N4800	19	78.1	Area 48	-	36.6	62.7	59.5	60.7	56.3	73.8	0.0	74.2	74.5	70	Y	-	-	11.8	Y	Y	Y
N4800	20	80.9	Area 48	-	37.5	62.6	59.7	60.9	56.3	73.8	0.0	74.3	74.5	70	Y	-	-	11.9	Y	Y	Y
N4800	21	83.6	Area 48	-	38.4	62.6	59.9	61.0	56.3	73.8	0.0	74.3	74.5	70	Y	-	-	11.9	Y	Y	Y
N4800	22	86.4	Area 48	-	39.3	62.4	60.1	61.1	56.3	73.9	0.0	74.3	74.6	70	Y	-	-	12.2	Y	Y	Y
N4800	23	89.1	Area 48	-	40.4	62.4	60.3	61.1	56.3	73.9	0.0	74.3	74.6	70	Y	-	-	12.2	Y	Y	Y
N4800	24	91.9	Area 48	-	41.5	62.4	60.4	61.2	56.3	73.9	0.0	74.4	74.6	70	Y	-	-	12.2	Y	Y	Y
N4800	25	94.6	Area 48	-	42.8	62.3	60.4	61.2	56.2	73.9	0.0	74.4	74.6	70	Y	-	-	12.3	Y	Y	Y
N4800	26	97.4	Area 48	-	44.5	62.3	60.6	61.2	56.2	73.9	0.0	74.4	74.6	70	Y	-	-	12.2	Y	Y	Y
N4800	27	100.1	Area 48	-	46.1	62.2	60.7	61.2	56.2	73.9	0.0	74.4	74.6	70	Y	-	-	12.3	Y	Y	Y
N4800	28	102.9	Area 48	-	47.5	62.1	60.7	61.2	56.2	73.9	0.0	74.4	74.7	70	Y	-	-	12.5	Y	Y	Y
N4800	29	105.6	Area 48	-	48.9	62.0	60.8	61.2	56.1	73.9	0.0	74.4	74.7	70	Y	-	-	12.5	Y	Y	Y
N4800	30	108.4	Area 48	-	49.8	62.0	60.8	61.2	56.1	73.9	0.0	74.4	74.7	70	Y	-	-	12.4	Y	Y	Y
N4800	31	111.1	Area 48	-	50.8	61.9	60.9	61.2	56.1	73.9	0.0	74.4	74.7	70	Y	-	-	12.5	Y	Y	Y
N4800	32	113.9	Area 48	-	51.4	61.9	60.9	61.1	56.1	73.9	0.0	74.4	74.6	70	Y	-	-	12.3	Y	Y	Y
N4800	33	116.6	Area 48	-	51.9	61.8	61.0	61.0	56.0	73.9	0.0	74.4	74.6	70	Y	-	-	12.4	Y	Y	Y
N4800	34	119.4	Area 48	-	52.3	61.8	61.0	61.0	56.0	73.8	0.0	74.3	74.6	70	Y	-	-	12.3	Y	Y	Y
N4800	35	122.1	Area 48	-	52.7	61.8	61.0	60.9	56.0	73.8	0.0	74.3	74.6	70	Y	-	-	12.3	Y	Y	Y
N4800	36	124.9	Area 48	-	53.0	61.7	61.1	60.9	56.0	73.8	0.0	74.3	74.5	70	Y	-	-	12.3	Y	Y	Y
N4800	37	127.6	Area 48	-	53.3	61.7	61.1	60.8	55.9	73.7	0.0	74.2	74.5	70	Y	-	-	12.2	Y	Y	Y
N4800	38	130.4	Area 48	-	53.6	61.6	61.1	60.8	55.9	73.7	0.0	74.2	74.5	70	Y	-	-	12.3	Y	Y	Y
N4800	39	133.1	Area 48	-	53.8	61.5	61.1	60.8	55.9	73.6	0.0	74.2	74.4	70	Y	-	-	12.2	Y	Y	Y
N4801	1	28.6	Area 48	-	25.4	64.7	52.9	58.3	55.1	71.2	0.0	71.6	72.4	70	Y	-	-	7.7	Y	Y	Y
N4801	2	31.4	Area 48	-	25.9	64.9	53.2	58.7	55.4	71.5	0.0	71.9	72.7	70	Y	-	-	7.8	Y	Y	Y
N4801	3	34.1	Area 48	-	26.3	64.9	53.6	59.1	55.5	71.8	0.0	72.1	72.9	70	Y	-	-	8.0	Y	Y	Y
N4801	4	36.9	Area 48	-	26.8	64.9	53.9	59.5	55.6	71.9	0.0	72.3	73.0	70	Y	-	-	8.1	Y	Y	Y
N4801	5	39.6	Area 48	-	27.3	64.7	54.4	59.7	55.6	72.0	0.0	72.5	73.1	70	Y	-	-	8.4	Y	Y	Y
N4801	6	42.4	Area 48	-	27.9	64.7	54.9	59.9	55.7	72.1	0.0	72.6	73.2	70	Y	-	-	8.5	Y	Y	Y
N4801	7	45.1	Area 48	-	28.5	64.6	55.2	60.0	55.7	72.2	0.0	72.6	73.3	70	Y	-	-	8.7	Y	Y	Y
N4801	8	47.9	Area 48	-	29.0	64.6	55.7	60.2	55.7	72.3	0.0	72.7	73.3	70	Y	-	-	8.7	Y	Y	Y
N4801	9	50.6	Area 48	-	29.6	64.6	56.3	60.2	55.7	72.3	0.0	72.8	73.4	70	Y	-	-	8.8	Y	Y	Y
N4801	10	53.4	Area 48	-	30.2	64.4	56.5	60.2	55.8	72.4	0.0	72.8	73.4	70	Y	-	-	9.0	Y	Y	Y
N4801	11	56.1	Area 48	-	30.9	64.4	56.9	60.3	55.8	72.5	0.0	72.9	73.5	70	Y	-	-	9.1	Y	Y	Y
N4801	12	58.9	Area 48	-	31.5	64.4	57.4	60.3	56.0	72.6	0.0	73.0	73.6	70	Y	-	-	9.2	Y	Y	Y
N4801	13	61.6	Area 48	-	32.2	64.3	57.8	60.3	56.2	72.7	0.0	73.1	73.7	70	Y	-	-	9.4	Y	Y	Y
N4801	14	64.4	Area 48	-	32.8	64.2	58.1	60.3	56.3	72.9	0.0	73.4	73.9	70	Y	-	-	9.7	Y	Y	Y
N4801	15	67.1	Area 48	-	33.6	64.2	58.5	60.3	56.3	73.2	0.0	73.6	74.1	70	Y	-	-	9.9	Y	Y	Y
N4801	16	69.9	Area 48	-	34.3	64.2	58.9	60.5	56.3	73.4	0.0	73.8	74.3	70	Y	-	-	10.1	Y	Y	Y
N4801	17	72.6	Area 48	-	35.0	64.0	59.2	60.5	56.4	73.5	0.0	74.0	74.4	70	Y	-	-	10.4	Y	Y	Y
N4801	18	75.4	Area 48	-	35.8	64.0	59.5	60.7	56.3	73.6	0.0	74.1	74.5	70	Y	-	-	10.5	Y	Y	Y

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N4801	19	78.1	Area 48	-	36.6	64.0	59.8	60.8	56.3	73.8	0.0	74.2	74.6	70	Y	-	-	10.6	Y	Y	Y
N4801	20	80.9	Area 48	-	37.5	63.9	60.0	61.0	56.3	73.8	0.0	74.3	74.6	70	Y	-	-	10.7	Y	Y	Y
N4801	21	83.6	Area 48	-	38.4	63.9	60.1	61.1	56.3	73.8	0.0	74.3	74.7	70	Y	-	-	10.8	Y	Y	Y
N4801	22	86.4	Area 48	-	39.4	63.8	60.3	61.2	56.2	73.9	0.0	74.4	74.7	70	Y	-	-	10.9	Y	Y	Y
N4801	23	89.1	Area 48	-	40.4	63.7	60.5	61.2	56.2	73.9	0.0	74.4	74.7	70	Y	-	-	11.0	Y	Y	Y
N4801	24	91.9	Area 48	-	41.5	63.7	60.6	61.3	56.2	73.9	0.0	74.4	74.8	70	Y	-	-	11.1	Y	Y	Y
N4801	25	94.6	Area 48	-	42.8	63.6	60.7	61.3	56.2	73.9	0.0	74.4	74.8	70	Y	-	-	11.2	Y	Y	Y
N4801	26	97.4	Area 48	-	44.5	63.6	60.8	61.4	56.2	74.0	0.0	74.4	74.8	70	Y	-	-	11.1	Y	Y	Y
N4801	27	100.1	Area 48	-	46.0	63.5	60.9	61.3	56.1	74.0	0.0	74.5	74.8	70	Y	-	-	11.2	Y	Y	Y
N4801	28	102.9	Area 48	-	47.5	63.5	61.0	61.3	56.1	74.0	0.0	74.5	74.8	70	Y	-	-	11.2	Y	Y	Y
N4801	29	105.6	Area 48	-	49.0	63.4	61.0	61.3	56.1	74.0	0.0	74.5	74.8	70	Y	-	-	11.2	Y	Y	Y
N4801	30	108.4	Area 48	-	49.9	63.4	61.1	61.3	56.1	74.0	0.0	74.5	74.8	70	Y	-	-	11.2	Y	Y	Y
N4801	31	111.1	Area 48	-	50.8	63.4	61.1	61.3	56.0	74.0	0.0	74.5	74.8	70	Y	-	-	11.2	Y	Y	Y
N4801	32	113.9	Area 48	-	51.5	63.3	61.1	61.2	56.0	74.0	0.0	74.5	74.8	70	Y	-	-	11.2	Y	Y	Y
N4801	33	116.6	Area 48	-	51.9	63.2	61.2	61.2	56.0	73.9	0.0	74.5	74.8	70	Y	-	-	11.3	Y	Y	Y
N4801	34	119.4	Area 48	-	52.4	63.1	61.2	61.2	56.0	73.9	0.0	74.4	74.7	70	Y	-	-	11.2	Y	Y	Y
N4801	35	122.1	Area 48	-	52.8	63.1	61.2	61.1	55.9	73.9	0.0	74.4	74.7	70	Y	-	-	11.2	Y	Y	Y
N4801	36	124.9	Area 48	-	53.1	63.0	61.3	61.1	55.9	73.8	0.0	74.3	74.7	70	Y	-	-	11.3	Y	Y	Y
N4801	37	127.6	Area 48	-	53.4	63.0	61.3	61.0	55.9	73.8	0.0	74.3	74.7	70	Y	-	-	11.2	Y	Y	Y
N4801	38	130.4	Area 48	-	53.7	62.9	61.3	61.0	55.9	73.8	0.0	74.3	74.6	70	Y	-	-	11.2	Y	Y	Y
N4801	39	133.1	Area 48	-	53.9	62.9	61.3	60.9	55.8	73.7	0.0	74.3	74.6	70	Y	-	-	11.2	Y	Y	Y
N4802	1	24.1	Area 48	-	43.9	62.2	47.7	55.3	0.0	54.4	0.0	58.3	63.8	70	N	-	-	1.5	Y	N	N
N4802	2	26.9	Area 48	-	45.5	62.6	48.5	55.4	0.0	55.6	0.0	58.9	64.2	70	N	-	-	1.5	Y	N	N
N4802	3	29.6	Area 48	-	47.2	62.9	49.2	55.3	0.0	56.4	0.0	59.3	64.5	70	N	-	-	1.5	Y	N	N
N4802	4	32.4	Area 48	-	49.1	63.1	50.0	55.3	0.0	56.9	0.0	59.7	64.9	70	N	-	-	1.6	Y	N	N
N4802	5	35.1	Area 48	-	51.2	63.4	50.9	55.3	0.0	57.3	0.0	60.0	65.2	70	N	-	-	1.5	Y	N	N
N4802	6	37.9	Area 48	-	53.8	63.8	51.8	55.2	0.0	57.6	0.0	60.2	65.7	70	N	-	-	1.5	Y	N	N
N4802	7	40.6	Area 48	-	57.7	64.2	53.0	55.2	0.0	57.7	0.0	60.5	66.4	70	N	-	-	1.3	Y	N	N
N4802	8	43.4	Area 48	-	59.6	64.8	55.1	55.2	0.0	57.8	0.0	61.0	67.1	70	N	-	-	1.2	Y	N	N
N4802	9	46.1	Area 48	-	60.8	65.4	57.0	55.1	0.0	57.9	0.0	61.6	67.8	70	N	-	-	1.1	Y	N	N
N4802	10	48.9	Area 48	-	61.4	66.3	58.2	55.2	0.0	58.1	0.0	62.1	68.6	70	N	-	-	1.1	Y	N	N
N4802	11	51.6	Area 48	-	61.8	67.3	58.6	55.2	0.0	58.3	0.0	62.4	69.3	70	N	-	-	0.9	N	N	N
N4802	12	54.4	Area 48	-	61.9	67.9	58.6	55.4	0.0	58.5	0.0	62.5	69.8	70	N	-	-	0.9	N	N	N
N4802	13	57.1	Area 48	-	62.0	68.4	58.7	55.6	0.0	58.7	0.0	62.7	70.1	70	N	-	-	0.8	N	N	N
N4802	14	59.9	Area 48	-	62.1	68.6	58.7	55.9	0.0	58.7	0.0	62.7	70.3	70	N	-	-	0.8	N	N	N
N4802	15	62.6	Area 48	-	62.1	68.8	58.7	56.4	0.0	58.7	0.0	62.8	70.5	70	Y	-	-	0.9	N	N	N
N4802	16	65.4	Area 48	-	62.1	69.0	58.7	56.6	0.0	58.6	0.0	62.8	70.6	70	Y	-	-	0.8	N	N	N
N4802	17	68.1	Area 48	-	62.1	69.1	58.7	57.0	0.0	58.5	0.0	62.9	70.7	70	Y	-	-	0.8	N	N	N
N4802	18	70.9	Area 48	-	62.1	69.3	58.6	57.2	0.0	58.4	0.0	62.9	70.8	70	Y	-	-	0.7	N	N	N
N4802	19	73.6	Area 48	-	62.2	69.3	58.6	57.3	0.0	58.3	0.0	62.9	70.9	70	Y	-	-	0.8	N	N	N
N4802	20	76.4	Area 48	-	62.1	69.4	58.6	57.5	0.0	58.2	0.0	62.9	70.9	70	Y	-	-	0.8	N	N	N
N4802	21	79.1	Area 48	-	62.1	69.4	58.6	57.6	0.0	58.1	0.0	62.9	70.9	70	Y	-	-	0.8	N	N	N
N4802	22	81.9	Area 48	-	62.2	69.4	58.5	57.7	0.0	58.0	0.0	62.9	70.9	70	Y	-	-	0.7	N	N	N
N4802	23	84.6	Area 48	-	62.2	69.5	58.5	57.7	0.0	57.9	0.0	62.8	70.9	70	Y	-	-	0.7	N	N	N
N4802	24	87.4	Area 48	-	62.2	69.5	58.4	57.7	0.0	57.8	0.0	62.8	70.9	70	Y	-	-	0.7	N	N	N
N4802	25	90.1	Area 48	-	62.2	69.5	58.4	57.7	0.0	57.7	0.0	62.7	70.9	70	Y	-	-	0.7	N	N	N
N4802	26	92.9	Area 48	-	62.2	69.5	58.4	57.7	0.0	57.6	0.0	62.7	70.9	70	Y	-	-	0.7	N	N	N
N4802	27	95.6	Area 48	-	62.2	69.5	58.3	57.6	0.0	57.6	0.0	62.6	70.9	70	Y	-	-	0.7	N	N	N
N4802	28	98.4	Area 48	-	62.3	69.5	58.3	57.6	0.0	57.5	0.0	62.6	70.9	70	Y	-	-	0.6	N	N	N
N4802	29	101.1	Area 48	-	62.3	69.4	58.2	57.5	0.0	57.4	0.0	62.5	70.9	70	Y	-	-	0.7	N	N	N
N4802	30	103.9	Area 48	-	62.3	69.4	58.3	57.5	0.0	57.3	0.0	62.5	70.9	70	Y	-	-	0.7	N	N	N
N4802	31	106.6	Area 48	-	62.4	69.4	58.3	57.4	0.0	57.2	0.0	62.4	70.9	70	Y	-	-	0.7	N	N	N
N4802	32	109.4	Area 48	-	62.4	69.4	58.4	57.4	0.0	57.1	0.0	62.4	70.9	70	Y	-	-	0.7	N	N	N
N4802	33	112.1	Area 48	-	62.5	69.4	58.7	57.4	0.0	57.0	0.0	62.5	70.9	70	Y	-	-	0.7	N	N	N
N4802	34	114.9	Area 48	-	62.5	69.4	58.9	57.4	0.0	56.9	0.0	62.6	70.9	70	Y	-	-	0.7	N	N	N
N4802	35	117.6	Area 48	-	62.6	69.4	59.0	57.3	0.0	56.9	0.0	62.6	70.9	70	Y	-	-	0.7	N	N	N
N4802	36	120.4	Area 48	-	62.6	69.4	59.2	57.3	0.0	56.9	0.0	62.7	70.9	70	Y	-	-	0.7	N	N	N
N4802	37	123.1	Area 48	-	62.7	69.4	59.4	57.2	0.0	56.8	0.0	62.7	70.9	70	Y	-	-	0.7	N	N	N
N4802	38	125.9	Area 48	-	62.8	69.4	59.9	57.2	0.0	56.7	0.0	62.9	71.0	70	Y	-	-	0.7	N	N	N
N4802	39	128.6	Area 48	-	62.9	69.4	60.7	57.1	0.0	56.6	0.0	63.3	71.1	70	Y	-	-	0.8	N	N	N
N4803	1	24.1	Area 48	-	42.7	60.0	48.8	55.7	0.0	54.3	0.0	58.6	62.4	70	N	-	-	2.3	Y	N	N
N4803	2	26.9	Area 48	-	44.3	60.4	49.6	55.7	0.0	55.3	0.0	59.0	62.8	70	N	-	-	2.3	Y	N	N
N4803	3	29.6	Area 48	-	45.9	60.9	50.4	55.6	0.0	56.2	0.0	59.5	63.3	70	N	-	-	2.3	Y	N	N
N4803	4	32.4	Area 48	-	47.8	61.3	51.3	55.6	0.0	56.8	0.0	59.9	63.8	70	N	-	-	2.3	Y	N	N
N4803	5	35.1	Area 48	-	49.9	61.9	52.2	55.6	0.0	57.3	0.0	60.3	64.3	70	N	-	-	2.1	Y	N	N
N4803	6	37.9	Area 48	-	52.8	62.5	53.2	55.6	0.0	57.7	0.0	60.6	65.0	70	N	-	-	2.1	Y	N	N
N4803	7	40.6	Area 48	-	57.3	63.2	54.5	55.5	0.0	57.8	0.0	61.0	65.9	70	N	-	-	1.7	Y	N	N
N4803	8	43.4	Area 48	-	59.2	64.1	56.4	55.5	0.0	58.1	0.0	61.6	66.8	70	N	-	-	1.5	Y	N	N
N4803	9	46.1	Area 48	-	60.5	65.0	57.9	55.5	0.0	58.2	0.0	62.1	67.7	70	N	-	-	1.4	Y	N	N
N4803	10	48.9	Area 48	-	61.2	66.0	59.1	55.6	0.0	58.4	0.0	62.7	68.6	70	N	-	-	1.4	Y	N	N
N4803	11	51.6	Area 48	-	61.6	67.2	59.4	55.7	0.0	58.7	0.0	63.0	69.4	70	N	-	-	1.1	Y	N	N
N4803	12	54.4	Area 48	-	61.7	68.0	59.6	55.7	0.0	59.3	0.0	63.3	70.0	70	N	-	-	1.1	Y	N	N
N4803	13	57.1	Area 48	-	61.8	68.6	59.6	55.9	0.0	59.6	0.0	63.5	70.4	70	N	-	-	1.0	Y	N	N
N4803	14	59.9	Area 48	-	61.8	69.0	59.7	56.1	0.0	59.7	0.0	63.6	70.7	70	Y	-	-	0.9	N	N	N
N4803	15	62.6	Area 48	-	61.9	69.2	59.7	56.5	0.0	59.8	0.0	63.7	70.9	70	Y	-	-	1.0	Y	N	Y
N4803	16	65.4	Area 48	-	61.9	69.4	59.7	56.9	0.0	59.7	0.0	63.8	71.0	70	Y	-	-	0.9	N	N	N
N4803	17	68.1	Area 48	-	61.9	69.6	59.7	57.3	0.0	59.7	0.0	63.8	71.2	70	Y	-	-	0.9	N	N	N
N4803	18	70.9	Area 48	-	61.9	69.7	59.8	57.6	0.0	59.6	0.0	63.9	71.3	70	Y	-	-	0.9	N	N	N
N4803	19	73.6	Area 48	-	61.9	69.8	59.8	57.7	0.0	59.5	0.0	63.9	71.3	70	Y	-	-	0.8	N	N	N
N4803	20	76.4	Area 48	-	61.9	69.9	59.8	57.9	0.0	59.4	0.0	63.9	71.4	70	Y	-	-	0.9	N	N	N
N4803	21	79.1	Area 48	-	61.9	69.9	59.8	58.0	0.0	59.3	0.0	63.9	71.4	70	Y	-	-	0.9	N	N	N
N4803	22	81.9	Area 48	-	61.9	70.0	59.8	58.1	0.0	59.2	0.0	63.9	71.4	70	Y	-	-	0.8	N	N	N
N4803	23	84.6	Area 48	-	62.0	70.0	59.8	58.2	0.0	59.2	0.0	63.9	71.5	70	Y	-	-	0.9	N	N	N
N4803	24	87.4	Area 48	-	62.0	70.0	59.8	58.3	0.0	59.1	0.0	63.9	71.5	70	Y	-	-	0.9	N	N	N
N4803	25	90.1	Area 48	-	62.0	70.0	59.8	58.3	0.0	59.0	0.0	63.8	71.5	70	Y	-	-	0.9	N	N	N
N4803	26	92.9	Area 48	-	62.0	70.0	59.8	58.3	0.0	58.9	0.0	63.8	71.5	70	Y	-	-	0.9	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required[4,5] (Y/N)
							dB (A)														
N4803	27	95.6	Area 48	-	62.0	70.0	59.8	58.3	0.0	58.8	0.0	63.8	71.5	70	Y	-	-	0.9	N	N	N
N4803	28	98.4	Area 48	-	62.0	70.0	59.7	58.2	0.0	58.7	0.0	63.7	71.5	70	Y	-	-	0.9	N	N	N
N4803	29	101.1	Area 48	-	62.1	70.0	59.7	58.2	0.0	58.6	0.0	63.7	71.4	70	Y	-	-	0.7	N	N	N
N4803	30	103.9	Area 48	-	62.1	70.0	59.7	58.1	0.0	58.6	0.0	63.6	71.4	70	Y	-	-	0.7	N	N	N
N4803	31	106.6	Area 48	-	62.1	70.0	59.7	58.1	0.0	58.5	0.0	63.6	71.4	70	Y	-	-	0.7	N	N	N
N4803	32	109.4	Area 48	-	62.2	70.0	59.7	58.1	0.0	58.4	0.0	63.6	71.4	70	Y	-	-	0.7	N	N	N
N4803	33	112.1	Area 48	-	62.2	70.0	59.7	58.1	0.0	58.3	0.0	63.5	71.4	70	Y	-	-	0.7	N	N	N
N4803	34	114.9	Area 48	-	62.3	70.0	59.7	58.0	0.0	58.2	0.0	63.5	71.4	70	Y	-	-	0.7	N	N	N
N4803	35	117.6	Area 48	-	62.3	70.0	59.7	58.0	0.0	58.2	0.0	63.4	71.4	70	Y	-	-	0.7	N	N	N
N4803	36	120.4	Area 48	-	62.4	70.0	59.7	57.9	0.0	58.1	0.0	63.4	71.4	70	Y	-	-	0.7	N	N	N
N4803	37	123.1	Area 48	-	62.5	70.0	59.8	57.9	0.0	58.0	0.0	63.4	71.4	70	Y	-	-	0.7	N	N	N
N4803	38	125.9	Area 48	-	62.5	69.9	60.0	57.9	0.0	58.0	0.0	63.5	71.4	70	Y	-	-	0.8	N	N	N
N4803	39	128.6	Area 48	-	62.6	70.0	60.4	57.8	0.0	57.9	0.0	63.7	71.5	70	Y	-	-	0.8	N	N	N
N4804	1	24.1	Area 48	-	40.5	61.2	49.9	57.8	36.8	59.7	0.0	62.1	64.7	70	N	-	-	3.5	Y	N	N
N4804	2	26.9	Area 48	-	42.2	62.1	50.4	58.2	37.6	60.7	0.0	62.9	65.6	70	N	-	-	3.5	Y	N	N
N4804	3	29.6	Area 48	-	44.0	62.4	50.9	58.3	38.0	61.5	0.0	63.4	66.0	70	N	-	-	3.5	Y	N	N
N4804	4	32.4	Area 48	-	46.0	62.7	51.7	58.2	38.4	62.0	0.0	63.8	66.4	70	N	-	-	3.6	Y	N	N
N4804	5	35.1	Area 48	-	48.4	63.1	52.5	58.2	38.6	62.5	0.0	64.2	66.8	70	N	-	-	3.6	Y	N	N
N4804	6	37.9	Area 48	-	51.9	63.7	53.6	58.2	38.8	62.9	0.0	64.6	67.3	70	N	-	-	3.3	Y	N	N
N4804	7	40.6	Area 48	-	56.7	64.3	55.3	58.2	38.9	63.3	0.0	64.9	68.0	70	N	-	-	3.0	Y	N	N
N4804	8	43.4	Area 48	-	58.7	65.1	56.9	58.1	38.9	63.6	0.0	65.3	68.7	70	N	-	-	2.7	Y	N	N
N4804	9	46.1	Area 48	-	59.8	66.0	57.9	58.1	38.9	63.7	0.0	65.6	69.3	70	N	-	-	2.4	Y	N	N
N4804	10	48.9	Area 48	-	60.3	66.8	59.0	58.1	38.8	63.9	0.0	65.9	69.9	70	N	-	-	2.2	Y	N	N
N4804	11	51.6	Area 48	-	60.6	67.9	59.5	58.2	38.8	64.1	0.0	66.2	70.6	70	Y	-	-	2.0	Y	N	Y
N4804	12	54.4	Area 48	-	60.8	68.7	59.7	58.2	38.8	64.3	0.0	66.4	71.1	70	Y	-	-	1.7	Y	N	Y
N4804	13	57.1	Area 48	-	60.8	69.3	59.8	58.2	38.7	64.6	0.0	66.5	71.6	70	Y	-	-	1.7	Y	N	Y
N4804	14	59.9	Area 48	-	60.9	69.8	59.9	58.3	38.7	64.7	0.0	66.7	71.9	70	Y	-	-	1.6	Y	N	Y
N4804	15	62.6	Area 48	-	60.9	70.1	60.1	58.4	38.7	64.8	0.0	66.7	72.1	70	Y	-	-	1.5	Y	N	Y
N4804	16	65.4	Area 48	-	60.9	70.4	60.2	58.5	38.6	64.8	0.0	66.8	72.3	70	Y	-	-	1.4	Y	N	Y
N4804	17	68.1	Area 48	-	60.9	70.5	60.2	58.8	38.6	64.8	0.0	66.9	72.4	70	Y	-	-	1.4	Y	N	Y
N4804	18	70.9	Area 48	-	61.0	70.7	60.3	59.1	38.6	64.8	0.0	66.9	72.5	70	Y	-	-	1.4	Y	N	Y
N4804	19	73.6	Area 48	-	61.0	70.7	60.4	59.2	38.5	64.8	0.0	66.9	72.6	70	Y	-	-	1.5	Y	N	Y
N4804	20	76.4	Area 48	-	61.0	70.8	60.4	59.3	38.5	64.7	0.0	66.9	72.6	70	Y	-	-	1.4	Y	N	Y
N4804	21	79.1	Area 48	-	61.0	70.9	60.5	59.4	38.5	64.7	0.0	66.9	72.6	70	Y	-	-	1.3	Y	N	Y
N4804	22	81.9	Area 48	-	61.0	70.9	60.5	59.5	38.4	64.6	0.0	66.9	72.7	70	Y	-	-	1.4	Y	N	Y
N4804	23	84.6	Area 48	-	61.0	70.9	60.6	59.6	38.4	64.5	0.0	66.9	72.7	70	Y	-	-	1.4	Y	N	Y
N4804	24	87.4	Area 48	-	61.1	71.0	60.5	59.7	38.3	64.5	0.0	66.9	72.7	70	Y	-	-	1.3	Y	N	Y
N4804	25	90.1	Area 48	-	61.0	71.0	60.6	59.8	38.3	64.4	0.0	66.9	72.7	70	Y	-	-	1.3	Y	N	Y
N4804	26	92.9	Area 48	-	61.1	70.9	60.6	59.8	38.3	64.4	0.0	66.9	72.7	70	Y	-	-	1.4	Y	N	Y
N4804	27	95.6	Area 48	-	61.1	71.0	60.6	59.8	38.2	64.4	0.0	66.8	72.7	70	Y	-	-	1.3	Y	N	Y
N4804	28	98.4	Area 48	-	61.1	70.9	60.6	59.8	38.2	64.3	0.0	66.8	72.7	70	Y	-	-	1.4	Y	N	Y
N4804	29	101.1	Area 48	-	61.1	70.9	60.6	59.7	38.1	64.2	0.0	66.8	72.7	70	Y	-	-	1.4	Y	N	Y
N4804	30	103.9	Area 48	-	61.2	70.9	60.6	59.7	38.1	64.2	0.0	66.7	72.6	70	Y	-	-	1.3	Y	N	Y
N4804	31	106.6	Area 48	-	61.2	70.9	60.6	59.7	38.0	64.1	0.0	66.7	72.6	70	Y	-	-	1.3	Y	N	Y
N4804	32	109.4	Area 48	-	61.2	70.9	60.6	59.6	38.0	64.1	0.0	66.6	72.6	70	Y	-	-	1.3	Y	N	Y
N4804	33	112.1	Area 48	-	61.3	70.9	60.6	59.6	38.0	64.0	0.0	66.6	72.6	70	Y	-	-	1.2	Y	N	Y
N4804	34	114.9	Area 48	-	61.3	70.9	60.6	59.5	37.9	64.0	0.0	66.6	72.6	70	Y	-	-	1.2	Y	N	Y
N4804	35	117.6	Area 48	-	61.3	70.9	60.6	59.5	37.9	63.9	0.0	66.5	72.6	70	Y	-	-	1.2	Y	N	Y
N4804	36	120.4	Area 48	-	61.4	71.0	60.7	59.4	37.8	63.8	0.0	66.5	72.6	70	Y	-	-	1.1	Y	N	Y
N4804	37	123.1	Area 48	-	61.5	70.9	60.7	59.4	37.8	63.8	0.0	66.5	72.6	70	Y	-	-	1.2	Y	N	Y
N4804	38	125.9	Area 48	-	61.5	70.9	60.7	59.3	37.7	63.7	0.0	66.4	72.6	70	Y	-	-	1.2	Y	N	Y
N4804	39	128.6	Area 48	-	61.6	70.9	60.9	59.3	37.7	63.7	0.0	66.4	72.6	70	Y	-	-	1.2	Y	N	Y
N4805	1	24.1	Area 48	-	35.6	61.0	49.6	57.6	36.7	59.6	0.0	62.0	64.6	70	N	-	-	3.6	Y	N	N
N4805	2	26.9	Area 48	-	37.4	62.1	50.0	58.1	37.5	60.5	0.0	62.7	65.5	70	N	-	-	3.4	Y	N	N
N4805	3	29.6	Area 48	-	39.3	62.5	50.5	58.1	37.9	61.3	0.0	63.3	65.9	70	N	-	-	3.4	Y	N	N
N4805	4	32.4	Area 48	-	41.3	62.8	51.2	58.1	38.1	61.9	0.0	63.7	66.3	70	N	-	-	3.5	Y	N	N
N4805	5	35.1	Area 48	-	43.6	63.2	52.0	58.1	38.4	62.4	0.0	64.1	66.7	70	N	-	-	3.5	Y	N	N
N4805	6	37.9	Area 48	-	46.0	63.7	53.2	58.0	38.5	62.7	0.0	64.4	67.1	70	N	-	-	3.3	Y	N	N
N4805	7	40.6	Area 48	-	49.4	64.3	55.2	58.0	38.6	63.1	0.0	64.8	67.6	70	N	-	-	3.2	Y	N	N
N4805	8	43.4	Area 48	-	53.3	65.2	56.9	58.0	38.6	63.4	0.0	65.2	68.3	70	N	-	-	2.8	Y	N	N
N4805	9	46.1	Area 48	-	55.0	66.0	57.9	58.0	38.5	63.5	0.0	65.5	68.9	70	N	-	-	2.6	Y	N	N
N4805	10	48.9	Area 48	-	55.6	66.9	59.1	58.0	38.5	63.7	0.0	65.8	69.6	70	N	-	-	2.4	Y	N	N
N4805	11	51.6	Area 48	-	55.7	67.9	59.5	58.1	38.5	63.9	0.0	66.0	70.2	70	N	-	-	2.0	Y	N	N
N4805	12	54.4	Area 48	-	55.8	68.7	59.8	58.1	38.4	64.1	0.0	66.2	70.8	70	Y	-	-	1.9	Y	N	Y
N4805	13	57.1	Area 48	-	55.8	69.3	59.8	58.1	38.4	64.4	0.0	66.4	71.3	70	Y	-	-	1.8	Y	N	Y
N4805	14	59.9	Area 48	-	55.8	69.9	59.9	58.1	38.4	64.6	0.0	66.6	71.7	70	Y	-	-	1.6	Y	N	Y
N4805	15	62.6	Area 48	-	55.8	70.2	60.1	58.2	38.3	64.7	0.0	66.6	71.9	70	Y	-	-	1.5	Y	N	Y
N4805	16	65.4	Area 48	-	55.8	70.5	60.2	58.4	38.3	64.7	0.0	66.7	72.1	70	Y	-	-	1.5	Y	N	Y
N4805	17	68.1	Area 48	-	55.8	70.6	60.3	58.7	38.3	64.7	0.0	66.8	72.2	70	Y	-	-	1.5	Y	N	Y
N4805	18	70.9	Area 48	-	55.8	70.7	60.3	58.9	38.3	64.7	0.0	66.8	72.3	70	Y	-	-	1.5	Y	N	Y
N4805	19	73.6	Area 48	-	55.8	70.9	60.4	59.1	38.2	64.6	0.0	66.8	72.4	70	Y	-	-	1.4	Y	N	Y
N4805	20	76.4	Area 48	-	55.8	70.9	60.4	59.2	38.2	64.6	0.0	66.8	72.5	70	Y	-	-	1.5	Y	N	Y
N4805	21	79.1	Area 48	-	55.8	71.0	60.5	59.4	38.2	64.6	0.0	66.9	72.5	70	Y	-	-	1.4	Y	N	Y
N4805	22	81.9	Area 48	-	55.9	71.0	60.5	59.5	38.2	64.5	0.0	66.8	72.5	70	Y	-	-	1.4	Y	N	Y
N4805	23	84.6	Area 48	-	55.9	71.0	60.5	59.6	38.1	64.5	0.0	66.9	72.5	70	Y	-	-	1.4	Y	N	Y
N4805	24	87.4	Area 48	-	55.9	71.1	60.6	59.7	38.1	64.4	0.0	66.8	72.5	70	Y	-	-	1.3	Y	N	Y
N4805	25	90.1	Area 48	-	55.9	71.1	60.6	59.8	38.0	64.3	0.0	66.8	72.5	70	Y	-	-	1.3	Y	N	Y
N4805	26	92.9	Area 48	-	55.9	71.1	60.6	59.8	38.0	64.3	0.0	66.8	72.6	70	Y	-	-	1.4	Y	N	Y
N4805	27	95.6	Area 48	-	55.9	71.1	60.6	59.8	37.9	64.2	0.0	66.8	72.5	70	Y	-	-	1.3	Y	N	Y
N4805	28	98.4	Area 48	-	56.0	71.0	60.6	59.8	37.9	64.2	0.0	66.8	72.5	70	Y	-	-	1.4	Y	N	Y
N4805	29	101.1	Area 48	-	56.0	71.1	60.6	59.8	37.9	64.1	0.0	66.7	72.5	70	Y	-	-	1.3	Y	N	Y
N4805	30	103.9	Area 48	-	56.0	71.0	60.6	59.8	37.8	64.0	0.0	66.7	72.5	70	Y	-	-	1.4	Y	N	Y
N4805	31	106.6	Area 48	-	56.0	71.0	60.6	59.7	37.8	64.0	0.0	66.6	72.5	70	Y	-	-	1.4	Y	N	Y
N4805	32	109.4	Area 48	-	56.1	71.0	60.6	59.7	37.7	64.0	0.0	66.6	72.5	70	Y	-	-	1.4	Y	N	Y
N4805	33	112.1	Area 48	-	56.1	71.0	60.6	59.6	37.7	63.9	0.0	66.6	72.5	70	Y	-	-	1.4	Y	N	Y
N4805	34	114.9	Area 48	-	56.2	71.0	60.6	59.6	37.6	63.8	0.0	66.5	72.5	70	Y	-	-	1.4	Y	N	Y

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N4805	35	117.6	Area 48	-	56.3	71.0	60.7	59.5	37.6	63.8	0.0	66.5	72.4	70	Y	-	-	1.3	Y	N	Y
N4805	36	120.4	Area 48	-	56.3	71.1	60.7	59.5	37.5	63.7	0.0	66.5	72.5	70	Y	-	-	1.3	Y	N	Y
N4805	37	123.1	Area 48	-	56.4	71.0	60.7	59.5	37.5	63.7	0.0	66.5	72.4	70	Y	-	-	1.3	Y	N	Y
N4805	38	125.9	Area 48	-	56.5	71.0	60.7	59.4	37.5	63.6	0.0	66.4	72.4	70	Y	-	-	1.2	Y	N	Y
N4805	39	128.6	Area 48	-	56.5	71.0	60.8	59.4	37.5	63.6	0.0	66.4	72.4	70	Y	-	-	1.2	Y	N	Y
N4806	1	24.1	Area 48	-	26.1	56.9	48.8	57.3	27.3	56.5	0.0	60.3	61.9	70	N	-	-	5.0	Y	N	N
N4806	2	26.9	Area 48	-	28.1	57.6	49.2	57.3	27.6	57.0	0.0	60.5	62.3	70	N	-	-	4.7	Y	N	N
N4806	3	29.6	Area 48	-	30.3	58.3	49.7	57.3	27.8	57.7	0.0	60.9	62.8	70	N	-	-	4.5	Y	N	N
N4806	4	32.4	Area 48	-	32.9	59.1	50.4	57.3	27.9	58.4	0.0	61.3	63.3	70	N	-	-	4.2	Y	N	N
N4806	5	35.1	Area 48	-	35.9	60.2	51.4	57.2	27.9	59.0	0.0	61.7	64.0	70	N	-	-	3.8	Y	N	N
N4806	6	37.9	Area 48	-	39.2	61.3	53.0	57.2	28.0	59.4	0.0	62.0	64.7	70	N	-	-	3.4	Y	N	N
N4806	7	40.6	Area 48	-	44.4	62.5	55.4	57.1	27.9	59.7	0.0	62.5	65.5	70	N	-	-	2.9	Y	N	N
N4806	8	43.4	Area 48	-	48.3	63.7	57.3	57.1	27.9	60.0	0.0	63.1	66.5	70	N	-	-	2.7	Y	N	N
N4806	9	46.1	Area 48	-	49.6	64.9	58.5	57.1	27.9	60.3	0.0	63.6	67.4	70	N	-	-	2.4	Y	N	N
N4806	10	48.9	Area 48	-	49.8	66.0	59.6	57.1	27.8	60.5	0.0	64.0	68.2	70	N	-	-	2.1	Y	N	N
N4806	11	51.6	Area 48	-	49.8	67.3	60.0	57.1	27.8	60.8	0.0	64.3	69.1	70	N	-	-	1.7	Y	N	N
N4806	12	54.4	Area 48	-	49.8	68.5	60.1	57.1	27.8	61.2	0.0	64.6	70.0	70	N	-	-	1.4	Y	N	N
N4806	13	57.1	Area 48	-	49.8	69.1	60.2	57.1	27.8	62.0	0.0	65.0	70.6	70	Y	-	-	1.4	Y	N	Y
N4806	14	59.9	Area 48	-	49.8	69.6	60.3	57.3	27.8	62.3	0.0	65.2	71.0	70	Y	-	-	1.4	Y	N	Y
N4806	15	62.6	Area 48	-	49.8	69.8	60.4	57.5	27.8	62.6	0.0	65.4	71.1	70	Y	-	-	1.3	Y	N	Y
N4806	16	65.4	Area 48	-	49.8	69.9	60.5	57.9	27.7	62.6	0.0	65.5	71.2	70	Y	-	-	1.3	Y	N	Y
N4806	17	68.1	Area 48	-	49.8	69.9	60.5	58.2	27.7	62.7	0.0	65.6	71.3	70	Y	-	-	1.4	Y	N	Y
N4806	18	70.9	Area 48	-	49.8	70.0	60.6	58.5	27.7	62.6	0.0	65.6	71.4	70	Y	-	-	1.4	Y	N	Y
N4806	19	73.6	Area 48	-	49.8	70.0	60.7	58.7	27.7	62.6	0.0	65.7	71.4	70	Y	-	-	1.4	Y	N	Y
N4806	20	76.4	Area 48	-	49.8	70.0	60.7	58.9	27.6	62.5	0.0	65.7	71.4	70	Y	-	-	1.4	Y	N	Y
N4806	21	79.1	Area 48	-	49.8	70.0	60.8	59.2	27.6	62.4	0.0	65.8	71.4	70	Y	-	-	1.4	Y	N	Y
N4806	22	81.9	Area 48	-	49.8	70.0	60.8	59.4	27.6	62.4	0.0	65.8	71.4	70	Y	-	-	1.4	Y	N	Y
N4806	23	84.6	Area 48	-	49.7	70.0	60.8	59.5	27.6	62.3	0.0	65.8	71.4	70	Y	-	-	1.4	Y	N	Y
N4806	24	87.4	Area 48	-	49.7	70.0	60.9	59.6	27.6	62.3	0.0	65.8	71.4	70	Y	-	-	1.4	Y	N	Y
N4806	25	90.1	Area 48	-	49.7	70.0	60.9	59.7	27.6	62.2	0.0	65.8	71.4	70	Y	-	-	1.4	Y	N	Y
N4806	26	92.9	Area 48	-	49.7	70.0	60.9	59.7	27.8	62.1	0.0	65.8	71.4	70	Y	-	-	1.4	Y	N	Y
N4806	27	95.6	Area 48	-	49.7	70.0	60.9	59.7	27.9	62.1	0.0	65.8	71.4	70	Y	-	-	1.4	Y	N	Y
N4806	28	98.4	Area 48	-	49.7	70.0	60.9	59.7	28.2	62.0	0.0	65.7	71.4	70	Y	-	-	1.4	Y	N	Y
N4806	29	101.1	Area 48	-	49.7	70.0	60.9	59.7	28.5	62.2	0.0	65.8	71.4	70	Y	-	-	1.4	Y	N	Y
N4806	30	103.9	Area 48	-	49.7	70.0	60.9	59.6	28.9	62.2	0.0	65.8	71.4	70	Y	-	-	1.4	Y	N	Y
N4806	31	106.6	Area 48	-	49.7	70.0	60.9	59.6	29.4	62.1	0.0	65.8	71.4	70	Y	-	-	1.4	Y	N	Y
N4806	32	109.4	Area 48	-	49.7	70.0	60.9	59.5	29.9	62.1	0.0	65.7	71.4	70	Y	-	-	1.4	Y	N	Y
N4806	33	112.1	Area 48	-	49.6	69.9	60.9	59.5	30.6	62.0	0.0	65.7	71.4	70	Y	-	-	1.5	Y	N	Y
N4806	34	114.9	Area 48	-	49.6	70.0	60.9	59.4	31.3	61.9	0.0	65.6	71.4	70	Y	-	-	1.4	Y	N	Y
N4806	35	117.6	Area 48	-	49.6	70.0	60.9	59.3	32.1	61.9	0.0	65.6	71.4	70	Y	-	-	1.4	Y	N	Y
N4806	36	120.4	Area 48	-	49.6	70.0	61.0	59.3	33.2	61.9	0.0	65.6	71.4	70	Y	-	-	1.4	Y	N	Y
N4806	37	123.1	Area 48	-	49.6	70.0	61.0	59.2	34.7	61.8	0.0	65.6	71.4	70	Y	-	-	1.4	Y	N	Y
N4806	38	125.9	Area 48	-	49.6	70.0	61.1	59.1	36.3	61.8	0.0	65.6	71.3	70	Y	-	-	1.3	Y	N	Y
N4806	39	128.6	Area 48	-	49.5	70.0	61.3	59.0	37.3	61.8	0.0	65.6	71.4	70	Y	-	-	1.4	Y	N	Y
N4807	1	24.1	Area 48	-	32.6	56.2	49.0	57.6	23.7	56.0	0.0	60.2	61.7	70	N	-	-	5.5	Y	N	N
N4807	2	26.9	Area 48	-	34.6	57.1	49.4	57.6	23.7	56.4	0.0	60.4	62.1	70	N	-	-	5.0	Y	N	N
N4807	3	29.6	Area 48	-	36.7	58.2	50.0	57.5	23.7	57.3	0.0	60.8	62.7	70	N	-	-	4.5	Y	N	N
N4807	4	32.4	Area 48	-	39.3	59.2	50.6	57.5	23.6	58.1	0.0	61.2	63.4	70	N	-	-	4.2	Y	N	N
N4807	5	35.1	Area 48	-	42.3	60.5	51.6	57.5	23.6	58.7	0.0	61.6	64.1	70	N	-	-	3.5	Y	N	N
N4807	6	37.9	Area 48	-	45.6	61.8	53.3	57.4	23.6	59.1	0.0	62.0	65.0	70	N	-	-	3.1	Y	N	N
N4807	7	40.6	Area 48	-	50.1	63.2	55.9	57.4	23.6	59.5	0.0	62.6	66.0	70	N	-	-	2.6	Y	N	N
N4807	8	43.4	Area 48	-	53.9	64.7	57.9	57.4	23.6	59.8	0.0	63.2	67.2	70	N	-	-	2.2	Y	N	N
N4807	9	46.1	Area 48	-	55.3	66.0	59.1	57.4	23.5	60.1	0.0	63.8	68.2	70	N	-	-	1.8	Y	N	N
N4807	10	48.9	Area 48	-	55.7	67.3	60.0	57.4	23.5	60.4	0.0	64.2	69.2	70	N	-	-	1.6	Y	N	N
N4807	11	51.6	Area 48	-	55.9	68.4	60.3	57.5	23.5	60.7	0.0	64.5	70.0	70	N	-	-	1.4	Y	N	N
N4807	12	54.4	Area 48	-	55.9	69.5	60.5	57.5	23.5	61.2	0.0	64.8	70.9	70	Y	-	-	1.2	Y	N	Y
N4807	13	57.1	Area 48	-	55.9	70.3	60.6	57.5	23.5	62.0	0.0	65.2	71.6	70	Y	-	-	1.1	Y	N	Y
N4807	14	59.9	Area 48	-	55.9	70.7	60.7	57.7	23.4	62.5	0.0	65.5	72.0	70	Y	-	-	1.2	Y	N	Y
N4807	15	62.6	Area 48	-	55.9	71.0	60.8	57.9	23.4	62.6	0.0	65.6	72.2	70	Y	-	-	1.1	Y	N	Y
N4807	16	65.4	Area 48	-	55.9	71.2	60.9	58.3	23.3	62.7	0.0	65.8	72.4	70	Y	-	-	1.1	Y	N	Y
N4807	17	68.1	Area 48	-	55.9	71.3	61.0	58.6	23.3	62.7	0.0	65.8	72.5	70	Y	-	-	1.1	Y	N	Y
N4807	18	70.9	Area 48	-	55.9	71.5	61.0	58.8	23.3	62.7	0.0	65.9	72.6	70	Y	-	-	1.0	Y	N	Y
N4807	19	73.6	Area 48	-	55.9	71.6	61.1	59.1	23.3	62.6	0.0	65.9	72.7	70	Y	-	-	1.0	Y	N	Y
N4807	20	76.4	Area 48	-	55.9	71.6	61.1	59.3	23.2	62.6	0.0	66.0	72.8	70	Y	-	-	1.1	Y	N	Y
N4807	21	79.1	Area 48	-	55.9	71.6	61.2	59.6	23.2	62.6	0.0	66.0	72.8	70	Y	-	-	1.1	Y	N	Y
N4807	22	81.9	Area 48	-	55.9	71.7	61.2	59.8	23.1	62.5	0.0	66.0	72.8	70	Y	-	-	1.0	Y	N	Y
N4807	23	84.6	Area 48	-	55.8	71.7	61.2	59.9	23.2	62.4	0.0	66.1	72.8	70	Y	-	-	1.0	Y	N	Y
N4807	24	87.4	Area 48	-	55.8	71.7	61.2	60.0	23.4	62.4	0.0	66.1	72.8	70	Y	-	-	1.0	Y	N	Y
N4807	25	90.1	Area 48	-	55.8	71.7	61.3	60.0	23.7	62.3	0.0	66.0	72.8	70	Y	-	-	1.0	Y	N	Y
N4807	26	92.9	Area 48	-	55.8	71.7	61.2	60.1	24.1	62.2	0.0	66.0	72.8	70	Y	-	-	1.0	Y	N	Y
N4807	27	95.6	Area 48	-	55.8	71.7	61.3	60.2	24.7	62.1	0.0	66.0	72.8	70	Y	-	-	1.0	Y	N	Y
N4807	28	98.4	Area 48	-	55.8	71.7	61.3	60.2	25.4	62.1	0.0	66.0	72.8	70	Y	-	-	1.0	Y	N	Y
N4807	29	101.1	Area 48	-	55.8	71.7	61.3	60.1	26.2	62.2	0.0	66.0	72.8	70	Y	-	-	1.0	Y	N	Y
N4807	30	103.9	Area 48	-	55.8	71.7	61.3	60.1	27.1	62.1	0.0	66.0	72.8	70	Y	-	-	1.0	Y	N	Y
N4807	31	106.6	Area 48	-	55.8	71.6	61.3	60.1	28.0	62.0	0.0	66.0	72.8	70	Y	-	-	1.1	Y	N	Y
N4807	32	109.4	Area 48	-	55.8	71.7	61.3	60.1	29.0	62.0	0.0	65.9	72.8	70	Y	-	-	1.0	Y	N	Y
N4807	33	112.1	Area 48	-	55.8	71.6	61.3	60.0	30.1	61.9	0.0	65.9	72.8	70	Y	-	-	1.1	Y	N	Y
N4807	34	114.9	Area 48	-	55.7	71.7	61.2	59.9	31.3	61.8	0.0	65.9	72.8	70	Y	-	-	1.0	Y	N	Y
N4807	35	117.6	Area 48	-	55.7	71.7	61.3	60.0	32.6	61.8	0.0	65.8	72.8	70	Y	-	-	1.0	Y	N	Y
N4807	36	120.4	Area 48	-	55.7	71.7	61.3	59.9	34.4	61.8	0.0	65.8	72.8	70	Y	-	-	1.0	Y	N	Y
N4807	37	123.1	Area 48	-	55.7	71.7	61.3	59.9	36.7	61.7	0.0	65.8	72.8	70	Y	-	-	1.0	Y	N	Y
N4807	38	125.9	Area 48	-	55.7	71.7	61.4	59.8	38.7	61.7	0.0	65.8	72.8	70	Y	-	-	1.0	Y	N	Y
N4807	39	128.6	Area 48	-	55.7	71.6	61.6	59.8	39.7	61.7	0.0	65.9	72.8	70	Y	-	-	1.1	Y	N	Y
N4808	1	24.1	Area 48	-	47.0	47.8	0.0	43.3	0.0	0.0	0.0	43.3	51.2	70	N	-	-	0.8	N	N	N
N4808	2	26.9	Area 48	-	49.7	49.1	0.0	43.3	0.0	0.0	0.0	43.3	52.9	70	N	-	-	0.5	N	N	N
N4808	3	29.6	Area 48	-	53.1	50.9	0.0	43.5	0.0	0.0	0.0	43.5	55.5	70	N	-	-	0.4	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT													
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N4808	4	32.4	Area 48	-	56.8	53.3	0.0	43.9	0.0	0.0	0.0	43.9	58.5	70	N	-	-	0.1	N	N	N
N4808	5	35.1	Area 48	-	59.1	54.3	0.0	44.7	0.0	0.0	0.0	44.7	60.5	70	N	-	-	0.2	N	N	N
N4808	6	37.9	Area 48	-	60.3	55.2	0.0	45.0	0.0	0.0	0.0	45.0	61.6	70	N	-	-	0.1	N	N	N
N4808	7	40.6	Area 48	-	61.5	56.4	0.0	45.1	0.0	0.0	0.0	45.1	62.7	70	N	-	-	0.0	N	N	N
N4808	8	43.4	Area 48	-	62.4	57.6	0.0	45.6	0.0	0.0	0.0	45.6	63.7	70	N	-	-	0.1	N	N	N
N4808	9	46.1	Area 48	-	63.0	58.7	0.0	46.4	0.0	0.0	0.0	46.4	64.4	70	N	-	-	0.0	N	N	N
N4808	10	48.9	Area 48	-	63.3	59.5	0.0	46.8	0.0	0.0	0.0	46.8	64.9	70	N	-	-	0.1	N	N	N
N4808	11	51.6	Area 48	-	63.5	60.4	0.0	47.0	0.0	0.0	0.0	47.0	65.3	70	N	-	-	0.1	N	N	N
N4808	12	54.4	Area 48	-	63.6	61.3	0.0	46.9	0.0	0.0	0.0	46.9	65.7	70	N	-	-	0.1	N	N	N
N4808	13	57.1	Area 48	-	63.7	62.1	0.0	47.0	0.0	0.0	0.0	47.0	66.0	70	N	-	-	0.0	N	N	N
N4808	14	59.9	Area 48	-	63.7	63.0	0.0	47.0	0.0	0.0	0.0	47.0	66.4	70	N	-	-	0.0	N	N	N
N4808	15	62.6	Area 48	-	63.8	63.5	0.0	47.0	0.0	0.0	0.0	47.0	66.7	70	N	-	-	0.0	N	N	N
N4808	16	65.4	Area 48	-	63.8	64.1	0.0	47.0	0.0	0.0	0.0	47.0	67.0	70	N	-	-	0.0	N	N	N
N4808	17	68.1	Area 48	-	63.8	64.7	0.0	47.0	0.0	0.0	0.0	47.0	67.3	70	N	-	-	0.0	N	N	N
N4808	18	70.9	Area 48	-	63.8	65.1	0.0	47.0	0.0	0.0	0.0	47.0	67.5	70	N	-	-	0.0	N	N	N
N4808	19	73.6	Area 48	-	63.8	65.5	0.0	47.0	0.0	0.0	0.0	47.0	67.8	70	N	-	-	0.1	N	N	N
N4808	20	76.4	Area 48	-	63.8	65.9	0.0	47.0	0.0	0.0	0.0	47.0	68.0	70	N	-	-	0.0	N	N	N
N4808	21	79.1	Area 48	-	63.8	66.2	0.0	47.0	0.0	0.0	0.0	47.0	68.2	70	N	-	-	0.0	N	N	N
N4808	22	81.9	Area 48	-	63.8	66.4	0.0	47.1	0.0	0.0	0.0	47.1	68.3	70	N	-	-	0.0	N	N	N
N4808	23	84.6	Area 48	-	63.8	66.5	0.0	47.2	0.0	0.0	0.0	47.2	68.4	70	N	-	-	0.0	N	N	N
N4808	24	87.4	Area 48	-	63.9	66.6	0.0	47.1	0.0	0.0	0.0	47.1	68.5	70	N	-	-	0.0	N	N	N
N4808	25	90.1	Area 48	-	63.9	66.7	0.0	47.1	0.0	0.0	0.0	47.1	68.5	70	N	-	-	0.0	N	N	N
N4808	26	92.9	Area 48	-	63.9	66.7	0.0	47.2	0.0	0.0	0.0	47.2	68.6	70	N	-	-	0.1	N	N	N
N4808	27	95.6	Area 48	-	63.9	66.8	0.0	47.3	0.0	0.0	0.0	47.3	68.6	70	N	-	-	0.0	N	N	N
N4808	28	98.4	Area 48	-	63.9	66.8	0.0	47.4	0.0	0.0	0.0	47.4	68.6	70	N	-	-	0.0	N	N	N
N4808	29	101.1	Area 48	-	63.9	66.7	0.0	47.4	0.0	0.0	0.0	47.4	68.6	70	N	-	-	0.1	N	N	N
N4808	30	103.9	Area 48	-	64.0	66.8	0.0	47.5	0.0	0.0	0.0	47.5	68.6	70	N	-	-	0.0	N	N	N
N4808	31	106.6	Area 48	-	64.0	66.8	0.0	47.6	0.0	0.0	0.0	47.6	68.6	70	N	-	-	0.0	N	N	N
N4808	32	109.4	Area 48	-	64.0	66.8	0.0	47.7	0.0	0.0	0.0	47.7	68.7	70	N	-	-	0.1	N	N	N
N4808	33	112.1	Area 48	-	64.0	66.8	0.0	47.9	0.0	0.0	0.0	47.9	68.7	70	N	-	-	0.1	N	N	N
N4808	34	114.9	Area 48	-	64.1	66.8	0.0	48.0	0.0	0.0	0.0	48.0	68.7	70	N	-	-	0.0	N	N	N
N4808	35	117.6	Area 48	-	64.1	66.7	0.0	48.2	0.0	0.0	0.0	48.2	68.7	70	N	-	-	0.1	N	N	N
N4808	36	120.4	Area 48	-	64.1	66.7	0.0	48.5	0.0	0.0	0.0	48.5	68.7	70	N	-	-	0.1	N	N	N
N4808	37	123.1	Area 48	-	64.2	66.7	0.0	48.8	0.0	0.0	0.0	48.8	68.7	70	N	-	-	0.1	N	N	N
N4808	38	125.9	Area 48	-	64.2	66.7	0.0	48.9	0.0	0.0	0.0	48.9	68.7	70	N	-	-	0.1	N	N	N
N4808	39	128.6	Area 48	-	64.3	66.7	0.0	49.3	0.0	0.0	0.0	49.3	68.7	70	N	-	-	0.0	N	N	N
N4809	1	24.1	Area 48	-	47.1	54.7	47.3	54.5	0.0	52.5	0.0	57.1	59.3	70	N	-	-	3.9	Y	N	N
N4809	2	26.9	Area 48	-	49.7	55.7	47.8	54.5	0.0	52.5	0.0	57.2	59.9	70	N	-	-	3.2	Y	N	N
N4809	3	29.6	Area 48	-	52.8	56.8	48.4	54.5	0.0	52.8	0.0	57.4	60.8	70	N	-	-	2.5	Y	N	N
N4809	4	32.4	Area 48	-	55.9	58.1	49.3	54.6	0.0	53.5	0.0	57.8	62.1	70	N	-	-	2.0	Y	N	N
N4809	5	35.1	Area 48	-	58.5	59.1	50.6	54.9	0.0	54.2	0.0	58.4	63.4	70	N	-	-	1.6	Y	N	N
N4809	6	37.9	Area 48	-	60.0	60.0	52.4	55.1	0.0	54.8	0.0	59.0	64.5	70	N	-	-	1.5	Y	N	N
N4809	7	40.6	Area 48	-	61.2	61.0	55.3	55.2	0.0	55.4	0.0	60.1	65.5	70	N	-	-	1.4	Y	N	N
N4809	8	43.4	Area 48	-	62.1	62.1	56.9	55.2	0.0	55.8	0.0	60.8	66.5	70	N	-	-	1.4	Y	N	N
N4809	9	46.1	Area 48	-	62.7	63.1	57.7	55.2	0.0	56.1	0.0	61.2	67.2	70	N	-	-	1.3	Y	N	N
N4809	10	48.9	Area 48	-	63.1	64.1	58.4	55.2	0.0	56.5	0.0	61.7	67.8	70	N	-	-	1.2	Y	N	N
N4809	11	51.6	Area 48	-	63.3	65.3	59.2	55.2	0.0	56.9	0.0	62.2	68.6	70	N	-	-	1.2	Y	N	N
N4809	12	54.4	Area 48	-	63.4	66.4	59.6	55.2	0.0	57.4	0.0	62.5	69.2	70	N	-	-	1.0	Y	N	N
N4809	13	57.1	Area 48	-	63.5	67.6	59.9	55.2	0.0	58.1	0.0	62.9	70.0	70	N	-	-	1.0	Y	N	N
N4809	14	59.9	Area 48	-	63.6	68.6	60.0	55.2	0.0	59.0	0.0	63.3	70.6	70	Y	-	-	0.8	N	N	N
N4809	15	62.6	Area 48	-	63.6	69.4	60.2	55.2	0.0	60.0	0.0	63.7	71.3	70	Y	-	-	0.9	N	N	N
N4809	16	65.4	Area 48	-	63.6	70.0	60.3	55.3	0.0	60.3	0.0	63.9	71.7	70	Y	-	-	0.8	N	N	N
N4809	17	68.1	Area 48	-	63.6	70.3	60.4	55.4	0.0	60.7	0.0	64.2	72.0	70	Y	-	-	0.9	N	N	N
N4809	18	70.9	Area 48	-	63.6	70.6	60.5	55.5	0.0	60.9	0.0	64.3	72.2	70	Y	-	-	0.8	N	N	N
N4809	19	73.6	Area 48	-	63.6	70.8	60.6	55.7	0.0	60.9	0.0	64.4	72.3	70	Y	-	-	0.7	N	N	N
N4809	20	76.4	Area 48	-	63.6	71.0	60.6	55.8	0.0	61.1	0.0	64.5	72.5	70	Y	-	-	0.8	N	N	N
N4809	21	79.1	Area 48	-	63.6	71.1	60.7	56.0	0.0	61.2	0.0	64.6	72.6	70	Y	-	-	0.8	N	N	N
N4809	22	81.9	Area 48	-	63.6	71.2	60.8	56.3	0.0	61.2	0.0	64.7	72.7	70	Y	-	-	0.8	N	N	N
N4809	23	84.6	Area 48	-	63.6	71.3	60.8	56.6	0.0	61.3	0.0	64.8	72.8	70	Y	-	-	0.8	N	N	N
N4809	24	87.4	Area 48	-	63.7	71.4	60.9	57.0	0.0	61.3	0.0	64.8	72.8	70	Y	-	-	0.7	N	N	N
N4809	25	90.1	Area 48	-	63.7	71.4	60.9	57.4	0.0	61.2	0.0	64.9	72.8	70	Y	-	-	0.7	N	N	N
N4809	26	92.9	Area 48	-	63.7	71.4	60.9	57.7	0.0	61.2	0.0	65.0	72.9	70	Y	-	-	0.8	N	N	N
N4809	27	95.6	Area 48	-	63.7	71.5	60.9	58.0	0.0	61.2	0.0	65.0	72.9	70	Y	-	-	0.7	N	N	N
N4809	28	98.4	Area 48	-	63.7	71.4	60.9	58.1	0.0	61.1	0.0	65.0	72.9	70	Y	-	-	0.8	N	N	N
N4809	29	101.1	Area 48	-	63.7	71.5	61.0	58.3	0.0	61.1	0.0	65.1	72.9	70	Y	-	-	0.7	N	N	N
N4809	30	103.9	Area 48	-	63.8	71.5	61.0	58.5	0.0	61.0	0.0	65.1	72.9	70	Y	-	-	0.7	N	N	N
N4809	31	106.6	Area 48	-	63.8	71.5	60.9	58.6	0.0	61.0	0.0	65.1	72.9	70	Y	-	-	0.7	N	N	N
N4809	32	109.4	Area 48	-	63.8	71.5	61.0	58.8	0.0	60.9	0.0	65.1	72.9	70	Y	-	-	0.7	N	N	N
N4809	33	112.1	Area 48	-	63.8	71.5	60.9	58.9	0.0	60.9	0.0	65.1	72.9	70	Y	-	-	0.7	N	N	N
N4809	34	114.9	Area 48	-	63.8	71.4	61.0	59.1	0.0	60.8	0.0	65.1	72.9	70	Y	-	-	0.8	N	N	N
N4809	35	117.6	Area 48	-	63.8	71.5	61.0	59.1	0.0	60.8	0.0	65.2	72.9	70	Y	-	-	0.7	N	N	N
N4809	36	120.4	Area 48	-	63.9	71.5	60.9	59.2	0.0	60.7	0.0	65.1	72.9	70	Y	-	-	0.7	N	N	N
N4809	37	123.1	Area 48	-	63.9	71.4	60.9	59.3	0.0	60.7	0.0	65.1	72.9	70	Y	-	-	0.8	N	N	N
N4809	38	125.9	Area 48	-	63.9	71.4	60.9	59.3	0.0	60.6	0.0	65.1	72.9	70	Y	-	-	0.8	N	N	N
N4809	39	128.6	Area 48	-	63.9	71.4	60.9	59.3	0.0	60.6	0.0	65.1	72.9	70	Y	-	-	0.8	N	N	N
N4810	1	24.1	Area 48	-	47.2	54.9	47.6	54.6	0.0	52.9	0.0	57.4	59.6	70	N	-	-	4.0	Y	N	N
N4810	2	26.9	Area 48	-	49.7	55.9	48.1	54.6	0.0	52.9	0.0	57.4	60.1	70	N	-	-	3.3	Y	N	N
N4810	3	29.6	Area 48	-	52.9	57.0	48.7	54.7	0.0	53.3	0.0	57.6	61.0	70	N	-	-	2.6	Y	N	N
N4810	4	32.4	Area 48	-	55.7	58.3	49.6	54.8	0.0	53.9	0.0	58.0	62.3	70	N	-	-	2.1	Y	N	N
N4810	5	35.1	Area 48	-	58.3	59.3	50.8	55.1	0.0	54.5	0.0	58.6	63.5	70	N	-	-	1.7	Y	N	N
N4810	6	37.9	Area 48	-	60.1	60.2	52.6	55.3	0.0	55.1	0.0	59.3	64.6	70	N	-	-	1.4	Y	N	N
N4810	7	40.6	Area 48	-	61.3	61.1	55.5	55.3	0.0	55.7	0.0	60.3	65.7	70	N	-	-	1.5	Y	N	N
N4810	8	43.4	Area 48	-	62.2	62.1	57.1	55.4	0.0	56.0	0.0	61.0	66.5	70	N	-	-	1.3	Y	N	N
N4810	9	46.1	Area 48	-	62.8	63.1	57.7	55.4	0.0	56.4	0.0	61.4	67.2	70	N	-	-	1.2	Y	N	N
N4810	10	48.9	Area 48	-	63.2	64.1	58.4	55.4	0.0	56.7	0.0	61.8	67.9	70	N	-	-	1.2	Y	N	N
N4810	11	51.6	Area 48	-	63.4	65.2	59.1	55.3	0.0	57.1	0.0	62.2	68.5	70	N	-	-	1.1	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required[4,5] (Y/N)
							dB (A)														
N4810	12	54.4	Area 48	-	63.5	66.3	59.5	55.4	0.0	57.5	0.0	62.6	69.2	70	N	-	-	1.1	Y	N	N
N4810	13	57.1	Area 48	-	63.6	67.4	59.8	55.3	0.0	58.2	0.0	62.9	69.9	70	N	-	-	1.0	Y	N	N
N4810	14	59.9	Area 48	-	63.6	68.4	60.0	55.3	0.0	58.9	0.0	63.2	70.5	70	Y	-	-	0.9	N	N	N
N4810	15	62.6	Area 48	-	63.6	69.2	60.1	55.4	0.0	59.8	0.0	63.7	71.1	70	Y	-	-	0.8	N	N	N
N4810	16	65.4	Area 48	-	63.6	69.8	60.3	55.4	0.0	60.4	0.0	64.0	71.6	70	Y	-	-	0.9	N	N	N
N4810	17	68.1	Area 48	-	63.6	70.2	60.4	55.5	0.0	60.8	0.0	64.2	71.9	70	Y	-	-	0.8	N	N	N
N4810	18	70.9	Area 48	-	63.6	70.5	60.5	55.6	0.0	60.9	0.0	64.3	72.1	70	Y	-	-	0.8	N	N	N
N4810	19	73.6	Area 48	-	63.7	70.8	60.6	55.7	0.0	61.1	0.0	64.5	72.3	70	Y	-	-	0.7	N	N	N
N4810	20	76.4	Area 48	-	63.7	70.9	60.7	55.8	0.0	61.2	0.0	64.6	72.5	70	Y	-	-	0.8	N	N	N
N4810	21	79.1	Area 48	-	63.7	71.1	60.7	56.0	0.0	61.3	0.0	64.7	72.6	70	Y	-	-	0.8	N	N	N
N4810	22	81.9	Area 48	-	63.7	71.2	60.8	56.2	0.0	61.3	0.0	64.7	72.7	70	Y	-	-	0.8	N	N	N
N4810	23	84.6	Area 48	-	63.7	71.3	60.8	56.5	0.0	61.3	0.0	64.8	72.8	70	Y	-	-	0.8	N	N	N
N4810	24	87.4	Area 48	-	63.7	71.4	60.9	56.7	0.0	61.4	0.0	64.9	72.8	70	Y	-	-	0.7	N	N	N
N4810	25	90.1	Area 48	-	63.7	71.4	60.9	57.1	0.0	61.4	0.0	64.9	72.9	70	Y	-	-	0.8	N	N	N
N4810	26	92.9	Area 48	-	63.7	71.5	60.9	57.4	0.0	61.3	0.0	65.0	72.9	70	Y	-	-	0.7	N	N	N
N4810	27	95.6	Area 48	-	63.7	71.5	60.9	57.7	0.0	61.4	0.0	65.1	72.9	70	Y	-	-	0.7	N	N	N
N4810	28	98.4	Area 48	-	63.7	71.5	61.0	57.9	0.0	61.3	0.0	65.1	72.9	70	Y	-	-	0.7	N	N	N
N4810	29	101.1	Area 48	-	63.7	71.5	61.0	58.1	0.0	61.3	0.0	65.1	73.0	70	Y	-	-	0.8	N	N	N
N4810	30	103.9	Area 48	-	63.8	71.5	61.0	58.3	0.0	61.2	0.0	65.1	73.0	70	Y	-	-	0.8	N	N	N
N4810	31	106.6	Area 48	-	63.8	71.5	61.0	58.4	0.0	61.2	0.0	65.2	73.0	70	Y	-	-	0.8	N	N	N
N4810	32	109.4	Area 48	-	63.8	71.5	61.0	58.6	0.0	61.1	0.0	65.1	73.0	70	Y	-	-	0.8	N	N	N
N4810	33	112.1	Area 48	-	63.8	71.5	61.0	58.7	0.0	61.1	0.0	65.2	73.0	70	Y	-	-	0.8	N	N	N
N4810	34	114.9	Area 48	-	63.8	71.5	61.0	58.9	0.0	61.0	0.0	65.2	73.0	70	Y	-	-	0.8	N	N	N
N4810	35	117.6	Area 48	-	63.8	71.5	61.0	59.0	0.0	61.0	0.0	65.2	73.0	70	Y	-	-	0.8	N	N	N
N4810	36	120.4	Area 48	-	63.9	71.5	61.0	59.1	0.0	60.9	0.0	65.2	73.0	70	Y	-	-	0.8	N	N	N
N4810	37	123.1	Area 48	-	63.9	71.5	61.0	59.2	0.0	60.9	0.0	65.2	73.0	70	Y	-	-	0.8	N	N	N
N4810	38	125.9	Area 48	-	63.9	71.4	61.0	59.2	0.0	60.8	0.0	65.2	72.9	70	Y	-	-	0.8	N	N	N
N4810	39	128.6	Area 48	-	63.9	71.5	60.9	59.3	0.0	60.8	0.0	65.2	73.0	70	Y	-	-	0.8	N	N	N
N4811	1	25.6	Area 48	-	53.0	56.4	46.0	51.3	21.4	59.0	0.0	59.9	62.1	70	N	-	-	4.1	Y	N	N
N4811	2	28.4	Area 48	-	54.5	58.0	47.2	51.3	21.4	59.1	0.0	60.0	62.8	70	N	-	-	3.2	Y	N	N
N4811	3	31.1	Area 48	-	55.8	59.4	48.4	51.4	21.4	59.1	0.0	60.1	63.6	70	N	-	-	2.6	Y	N	N
N4811	4	33.9	Area 48	-	57.0	60.6	49.6	51.5	21.4	59.1	0.0	60.2	64.3	70	N	-	-	2.1	Y	N	N
N4811	5	36.6	Area 48	-	57.8	61.3	51.1	51.8	21.4	59.2	0.0	60.4	64.9	70	N	-	-	2.0	Y	N	N
N4811	6	39.4	Area 48	-	58.7	61.7	52.8	52.3	21.4	59.2	0.0	60.8	65.3	70	N	-	-	1.8	Y	N	N
N4811	7	42.1	Area 48	-	59.7	62.0	54.4	52.7	21.4	59.2	0.0	61.1	65.8	70	N	-	-	1.8	Y	N	N
N4811	8	44.9	Area 48	-	60.6	62.3	55.2	52.9	21.4	59.2	0.0	61.4	66.2	70	N	-	-	1.7	Y	N	N
N4811	9	47.6	Area 48	-	61.1	62.6	56.1	52.9	21.4	59.2	0.0	61.6	66.6	70	N	-	-	1.7	Y	N	N
N4811	10	50.4	Area 48	-	61.3	63.0	56.8	53.0	21.4	59.2	0.0	61.8	66.9	70	N	-	-	1.7	Y	N	N
N4811	11	53.1	Area 48	-	61.4	63.4	57.3	53.0	21.3	59.3	0.0	62.0	67.1	70	N	-	-	1.6	Y	N	N
N4811	12	55.9	Area 48	-	61.5	63.9	57.7	52.9	21.3	59.3	0.0	62.1	67.4	70	N	-	-	1.5	Y	N	N
N4811	13	58.6	Area 48	-	61.5	64.5	58.1	52.9	21.3	59.4	0.0	62.4	67.7	70	N	-	-	1.4	Y	N	N
N4811	14	61.4	Area 48	-	61.5	65.2	58.6	53.0	21.3	59.5	0.0	62.6	68.1	70	N	-	-	1.4	Y	N	N
N4811	15	64.1	Area 48	-	61.5	65.8	58.8	53.0	21.3	59.6	0.0	62.7	68.5	70	N	-	-	1.3	Y	N	N
N4811	16	66.9	Area 48	-	61.5	66.6	59.0	53.0	21.3	59.8	0.0	62.9	69.0	70	N	-	-	1.2	Y	N	N
N4811	17	69.6	Area 48	-	61.5	67.2	59.2	53.0	21.2	60.0	0.0	63.0	69.4	70	N	-	-	1.2	Y	N	N
N4811	18	72.4	Area 48	-	61.5	67.8	59.3	53.0	21.2	60.3	0.0	63.3	69.8	70	N	-	-	1.1	Y	N	N
N4811	19	75.1	Area 48	-	61.5	68.3	59.4	53.1	21.2	60.5	0.0	63.4	70.1	70	N	-	-	1.0	Y	N	N
N4811	20	77.9	Area 48	-	61.5	68.7	59.4	53.0	21.2	60.7	0.0	63.5	70.5	70	Y	-	-	1.0	Y	N	Y
N4811	21	80.6	Area 48	-	61.5	69.1	59.5	53.1	21.2	60.7	0.0	63.6	70.7	70	Y	-	-	0.9	N	N	N
N4811	22	83.4	Area 48	-	61.5	69.4	59.6	53.2	21.2	60.8	0.0	63.7	70.9	70	Y	-	-	0.8	N	N	N
N4811	23	86.1	Area 48	-	61.5	69.6	59.6	53.2	21.1	60.8	0.0	63.7	71.1	70	Y	-	-	0.9	N	N	N
N4811	24	88.9	Area 48	-	61.5	69.8	59.6	53.4	21.1	60.8	0.0	63.7	71.2	70	Y	-	-	0.8	N	N	N
N4811	25	91.6	Area 48	-	61.5	69.9	59.7	53.5	21.0	60.8	0.0	63.7	71.3	70	Y	-	-	0.8	N	N	N
N4811	26	94.4	Area 48	-	61.4	70.0	59.7	53.6	21.1	60.7	0.0	63.7	71.4	70	Y	-	-	0.8	N	N	N
N4811	27	97.1	Area 48	-	61.4	70.1	59.7	53.7	21.1	60.7	0.0	63.7	71.4	70	Y	-	-	0.8	N	N	N
N4811	28	99.9	Area 48	-	61.5	70.2	59.8	53.9	21.1	60.7	0.0	63.8	71.5	70	Y	-	-	0.8	N	N	N
N4811	29	102.6	Area 48	-	61.5	70.2	59.8	54.1	21.2	60.7	0.0	63.8	71.6	70	Y	-	-	0.9	N	N	N
N4811	30	105.4	Area 48	-	61.5	70.3	59.8	54.3	21.0	60.6	0.0	63.8	71.6	70	Y	-	-	0.8	N	N	N
N4811	31	108.1	Area 48	-	61.4	70.3	59.8	54.5	20.9	60.6	0.0	63.8	71.6	70	Y	-	-	0.8	N	N	N
N4811	32	110.9	Area 48	-	61.4	70.3	59.8	54.8	20.8	60.9	0.0	64.0	71.6	70	Y	-	-	0.8	N	N	N
N4811	33	113.6	Area 48	-	61.4	70.3	59.8	55.1	21.1	61.2	0.0	64.1	71.7	70	Y	-	-	0.9	N	N	N
N4811	34	116.4	Area 48	-	61.5	70.3	59.8	55.2	21.4	61.6	0.0	64.4	71.7	70	Y	-	-	0.9	N	N	N
N4811	35	119.1	Area 48	-	61.5	70.4	59.8	55.5	21.7	60.9	0.0	64.1	71.7	70	Y	-	-	0.8	N	N	N
N4811	36	121.9	Area 48	-	61.5	70.4	59.8	55.6	22.2	60.8	0.0	64.0	71.7	70	Y	-	-	0.8	N	N	N
N4811	37	124.6	Area 48	-	61.5	70.3	59.8	55.7	22.9	60.7	0.0	64.0	71.7	70	Y	-	-	0.9	N	N	N
N4811	38	127.4	Area 48	-	61.5	70.3	59.8	55.8	23.7	60.7	0.0	64.0	71.7	70	Y	-	-	0.9	N	N	N
N4811	39	130.1	Area 48	-	61.5	70.4	59.8	56.0	24.4	61.1	0.0	64.2	71.7	70	Y	-	-	0.8	N	N	N
N4811	40	132.9	Area 48	-	61.6	70.3	59.8	56.2	25.0	61.3	0.0	64.4	71.7	70	Y	-	-	0.9	N	N	N
N4812	1	25.6	Area 48	-	52.0	57.9	47.3	51.6	20.9	58.9	0.0	59.9	62.4	70	N	-	-	3.5	Y	N	N
N4812	2	28.4	Area 48	-	53.6	59.1	48.3	51.6	20.9	59.0	0.0	60.0	63.1	70	N	-	-	2.9	Y	N	N
N4812	3	31.1	Area 48	-	55.1	60.2	49.3	51.7	20.9	59.0	0.0	60.1	63.8	70	N	-	-	2.4	Y	N	N
N4812	4	33.9	Area 48	-	56.5	61.3	50.3	51.8	20.8	59.1	0.0	60.3	64.5	70	N	-	-	2.0	Y	N	N
N4812	5	36.6	Area 48	-	57.2	61.9	51.4	52.1	20.8	59.1	0.0	60.5	65.0	70	N	-	-	1.8	Y	N	N
N4812	6	39.4	Area 48	-	57.7	62.3	52.8	52.5	20.8	59.1	0.0	60.7	65.4	70	N	-	-	1.8	Y	N	N
N4812	7	42.1	Area 48	-	58.4	62.6	54.0	52.9	20.8	59.1	0.0	61.0	65.8	70	N	-	-	1.8	Y	N	N
N4812	8	44.9	Area 48	-	59.2	62.9	54.8	53.1	20.8	59.1	0.0	61.2	66.1	70	N	-	-	1.7	Y	N	N
N4812	9	47.6	Area 48	-	59.6	63.2	55.5	53.2	20.8	59.1	0.0	61.4	66.4	70	N	-	-	1.6	Y	N	N
N4812	10	50.4	Area 48	-	59.8	63.6	56.2	53.2	20.8	59.2	0.0	61.6	66.7	70	N	-	-	1.6	Y	N	N
N4812	11	53.1	Area 48	-	59.9	64.0	56.7	53.2	20.8	59.2	0.0	61.8	67.0	70	N	-	-	1.6	Y	N	N
N4812	12	55.9	Area 48	-	59.9	64.4	57.3	53.2	20.8	59.3	0.0	62.0	67.3	70	N	-	-	1.6	Y	N	N
N4812	13	58.6	Area 48	-	59.9	64.9	57.6	53.2	20.7	59.4	0.0	62.2	67.6	70	N	-	-	1.5	Y	N	N
N4812	14	61.4	Area 48	-	59.9	65.5	58.1	53.3	20.7	59.5	0.0	62.4	68.0	70	N	-	-	1.4	Y	N	N
N4812	15	64.1	Area 48	-	60.0	66.2	58.5	53.2	20.7	59.5	0.0	62.6	68.4	70	N	-	-	1.3	Y	N	N
N4812	16	66.9	Area 48	-	59.9	66.8	58.7	53.2	20.7	59.7	0.0	62.7	68.9	70	N	-	-	1.3	Y	N	N
N4812	17	69.6	Area 48	-	59.9	67.5	58.9	53.2	20.6	59.8	0.0	62.9	69.3	70	N	-	-	1.1	Y	N	N
N4812	18	72.4	Area 48	-	59.9	68.0	59.1	53.3	20.6	60.1	0.0	63.1	69.7	70	N	-	-	1.1	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required[4,5] (Y/N)
							dB (A)														
N4812	19	75.1	Area 48	-	59.9	68.5	59.2	53.3	20.6	60.4	0.0	63.3	70.1	70	N	-	-	1.0	Y	N	N
N4812	20	77.9	Area 48	-	59.9	68.9	59.3	53.3	20.6	60.5	0.0	63.4	70.4	70	N	-	-	1.0	Y	N	N
N4812	21	80.6	Area 48	-	59.9	69.3	59.4	53.4	20.6	60.6	0.0	63.5	70.7	70	Y	-	-	0.9	N	N	N
N4812	22	83.4	Area 48	-	59.9	69.6	59.5	53.4	20.7	60.7	0.0	63.6	70.9	70	Y	-	-	0.9	N	N	N
N4812	23	86.1	Area 48	-	59.9	69.9	59.5	53.5	20.5	60.7	0.0	63.6	71.1	70	Y	-	-	0.8	N	N	N
N4812	24	88.9	Area 48	-	59.8	70.0	59.6	53.6	20.5	60.7	0.0	63.6	71.2	70	Y	-	-	0.8	N	N	N
N4812	25	91.6	Area 48	-	59.8	70.2	59.6	53.7	20.4	60.7	0.0	63.7	71.4	70	Y	-	-	0.8	N	N	N
N4812	26	94.4	Area 48	-	59.8	70.3	59.7	53.7	20.5	60.7	0.0	63.7	71.5	70	Y	-	-	0.8	N	N	N
N4812	27	97.1	Area 48	-	59.8	70.4	59.7	53.9	20.5	60.6	0.0	63.7	71.5	70	Y	-	-	0.7	N	N	N
N4812	28	99.9	Area 48	-	59.8	70.4	59.8	54.0	20.5	60.6	0.0	63.7	71.6	70	Y	-	-	0.8	N	N	N
N4812	29	102.6	Area 48	-	59.8	70.5	59.8	54.1	20.4	60.7	0.0	63.8	71.6	70	Y	-	-	0.7	N	N	N
N4812	30	105.4	Area 48	-	59.8	70.5	59.8	54.3	20.5	60.6	0.0	63.8	71.6	70	Y	-	-	0.7	N	N	N
N4812	31	108.1	Area 48	-	59.8	70.6	59.9	54.5	20.3	60.6	0.0	63.8	71.7	70	Y	-	-	0.8	N	N	N
N4812	32	110.9	Area 48	-	59.7	70.6	59.9	54.7	20.3	60.7	0.0	63.9	71.7	70	Y	-	-	0.8	N	N	N
N4812	33	113.6	Area 48	-	59.7	70.6	59.9	54.9	20.6	60.9	0.0	64.0	71.7	70	Y	-	-	0.8	N	N	N
N4812	34	116.4	Area 48	-	59.7	70.6	59.9	55.1	20.9	61.2	0.0	64.2	71.8	70	Y	-	-	0.9	N	N	N
N4812	35	119.1	Area 48	-	59.8	70.6	59.9	55.3	21.2	60.8	0.0	64.0	71.8	70	Y	-	-	0.9	N	N	N
N4812	36	121.9	Area 48	-	59.8	70.6	59.9	55.5	21.7	60.7	0.0	64.0	71.8	70	Y	-	-	0.9	N	N	N
N4812	37	124.6	Area 48	-	60.0	70.6	59.9	55.6	22.3	60.7	0.0	64.0	71.8	70	Y	-	-	0.8	N	N	N
N4812	38	127.4	Area 48	-	60.8	70.6	59.9	55.8	23.0	60.8	0.0	64.1	71.8	70	Y	-	-	0.8	N	N	N
N4812	39	130.1	Area 48	-	61.1	70.6	59.9	55.9	23.7	61.1	0.0	64.2	71.9	70	Y	-	-	0.8	N	N	N
N4812	40	132.9	Area 48	-	61.2	70.6	59.9	56.1	24.4	61.1	0.0	64.3	71.9	70	Y	-	-	0.8	N	N	N
N4813	1	25.6	Area 48	-	52.4	58.5	47.3	51.5	19.8	58.8	0.0	59.8	62.6	70	N	-	-	3.1	Y	N	N
N4813	2	28.4	Area 48	-	54.0	59.6	48.3	51.5	19.7	58.8	0.0	59.9	63.3	70	N	-	-	2.6	Y	N	N
N4813	3	31.1	Area 48	-	55.5	60.6	49.3	51.6	19.7	58.9	0.0	60.0	64.0	70	N	-	-	2.2	Y	N	N
N4813	4	33.9	Area 48	-	56.8	61.6	50.3	51.7	19.7	58.9	0.0	60.1	64.7	70	N	-	-	1.9	Y	N	N
N4813	5	36.6	Area 48	-	57.5	62.2	51.4	52.0	19.7	58.9	0.0	60.3	65.2	70	N	-	-	1.7	Y	N	N
N4813	6	39.4	Area 48	-	58.0	62.6	52.8	52.5	19.7	59.0	0.0	60.6	65.6	70	N	-	-	1.7	Y	N	N
N4813	7	42.1	Area 48	-	58.6	62.9	54.0	52.9	19.7	59.0	0.0	60.9	65.9	70	N	-	-	1.6	Y	N	N
N4813	8	44.9	Area 48	-	59.2	63.2	54.8	53.1	19.7	59.0	0.0	61.1	66.3	70	N	-	-	1.6	Y	N	N
N4813	9	47.6	Area 48	-	59.6	63.5	55.5	53.1	19.7	59.0	0.0	61.3	66.5	70	N	-	-	1.5	Y	N	N
N4813	10	50.4	Area 48	-	59.8	63.8	56.1	53.2	19.7	59.1	0.0	61.5	66.8	70	N	-	-	1.5	Y	N	N
N4813	11	53.1	Area 48	-	59.8	64.2	56.7	53.2	19.6	59.1	0.0	61.7	67.0	70	N	-	-	1.5	Y	N	N
N4813	12	55.9	Area 48	-	59.9	64.6	57.1	53.2	19.6	59.1	0.0	61.9	67.3	70	N	-	-	1.4	Y	N	N
N4813	13	58.6	Area 48	-	59.9	65.0	57.5	53.2	19.6	59.3	0.0	62.1	67.6	70	N	-	-	1.4	Y	N	N
N4813	14	61.4	Area 48	-	59.9	65.6	58.0	53.2	19.6	59.3	0.0	62.3	68.0	70	N	-	-	1.4	Y	N	N
N4813	15	64.1	Area 48	-	59.9	66.2	58.4	53.2	19.6	59.5	0.0	62.5	68.4	70	N	-	-	1.3	Y	N	N
N4813	16	66.9	Area 48	-	59.9	66.8	58.6	53.2	19.5	59.6	0.0	62.7	68.8	70	N	-	-	1.2	Y	N	N
N4813	17	69.6	Area 48	-	59.9	67.4	58.9	53.2	19.5	59.7	0.0	62.8	69.2	70	N	-	-	1.1	Y	N	N
N4813	18	72.4	Area 48	-	59.8	68.0	59.1	53.2	19.5	59.9	0.0	63.0	69.6	70	N	-	-	1.0	Y	N	N
N4813	19	75.1	Area 48	-	59.8	68.5	59.2	53.2	19.5	60.2	0.0	63.2	70.1	70	N	-	-	1.1	Y	N	N
N4813	20	77.9	Area 48	-	59.8	69.0	59.3	53.3	19.5	60.4	0.0	63.4	70.4	70	N	-	-	0.9	N	N	N
N4813	21	80.6	Area 48	-	59.8	69.3	59.5	53.3	19.5	60.5	0.0	63.5	70.7	70	Y	-	-	0.9	N	N	N
N4813	22	83.4	Area 48	-	59.8	69.6	59.6	53.4	19.5	60.6	0.0	63.5	70.9	70	Y	-	-	0.9	N	N	N
N4813	23	86.1	Area 48	-	59.7	69.8	59.7	53.4	19.4	60.6	0.0	63.6	71.1	70	Y	-	-	0.9	N	N	N
N4813	24	88.9	Area 48	-	59.7	70.1	59.7	53.5	19.4	60.7	0.0	63.7	71.3	70	Y	-	-	0.8	N	N	N
N4813	25	91.6	Area 48	-	59.7	70.2	59.8	53.6	19.3	60.6	0.0	63.7	71.4	70	Y	-	-	0.8	N	N	N
N4813	26	94.4	Area 48	-	59.7	70.3	59.8	53.7	19.3	60.6	0.0	63.7	71.5	70	Y	-	-	0.8	N	N	N
N4813	27	97.1	Area 48	-	59.7	70.4	59.9	53.8	19.3	60.6	0.0	63.8	71.5	70	Y	-	-	0.7	N	N	N
N4813	28	99.9	Area 48	-	59.7	70.4	59.9	53.9	19.3	60.5	0.0	63.7	71.6	70	Y	-	-	0.8	N	N	N
N4813	29	102.6	Area 48	-	59.6	70.5	59.9	54.0	19.3	60.5	0.0	63.7	71.6	70	Y	-	-	0.8	N	N	N
N4813	30	105.4	Area 48	-	59.6	70.6	60.0	54.1	19.4	60.5	0.0	63.8	71.7	70	Y	-	-	0.8	N	N	N
N4813	31	108.1	Area 48	-	59.6	70.6	60.1	54.3	19.1	60.5	0.0	63.8	71.7	70	Y	-	-	0.8	N	N	N
N4813	32	110.9	Area 48	-	59.6	70.6	60.1	54.5	19.1	60.6	0.0	63.9	71.7	70	Y	-	-	0.8	N	N	N
N4813	33	113.6	Area 48	-	59.6	70.6	60.1	54.7	19.3	60.9	0.0	64.0	71.8	70	Y	-	-	0.9	N	N	N
N4813	34	116.4	Area 48	-	59.6	70.6	60.1	54.9	19.8	61.2	0.0	64.2	71.8	70	Y	-	-	0.9	N	N	N
N4813	35	119.1	Area 48	-	59.6	70.7	60.1	55.1	20.2	60.6	0.0	64.0	71.8	70	Y	-	-	0.8	N	N	N
N4813	36	121.9	Area 48	-	59.7	70.7	60.1	55.3	20.7	60.6	0.0	64.0	71.8	70	Y	-	-	0.8	N	N	N
N4813	37	124.6	Area 48	-	59.9	70.7	60.1	55.5	21.4	60.6	0.0	64.0	71.8	70	Y	-	-	0.8	N	N	N
N4813	38	127.4	Area 48	-	60.6	70.7	60.1	55.6	22.3	60.6	0.0	64.0	71.9	70	Y	-	-	0.8	N	N	N
N4813	39	130.1	Area 48	-	61.0	70.7	60.1	55.7	22.9	61.0	0.0	64.3	71.9	70	Y	-	-	0.8	N	N	N
N4813	40	132.9	Area 48	-	61.2	70.6	60.1	55.9	23.5	61.0	0.0	64.3	71.9	70	Y	-	-	0.8	N	N	N
N4814	1	25.6	Area 48	-	43.4	59.1	47.2	51.4	19.6	54.3	0.0	56.6	61.1	70	N	-	-	1.9	Y	N	N
N4814	2	28.4	Area 48	-	46.5	59.8	48.3	51.7	19.6	54.4	0.0	56.9	61.7	70	N	-	-	1.7	Y	N	N
N4814	3	31.1	Area 48	-	51.5	60.5	49.3	51.9	19.6	54.5	0.0	57.1	62.5	70	N	-	-	1.5	Y	N	N
N4814	4	33.9	Area 48	-	55.6	61.2	50.2	52.0	19.6	54.6	0.0	57.4	63.5	70	N	-	-	1.2	Y	N	N
N4814	5	36.6	Area 48	-	56.4	61.8	51.4	52.2	19.6	54.8	0.0	57.8	64.1	70	N	-	-	1.2	Y	N	N
N4814	6	39.4	Area 48	-	56.7	62.2	52.8	52.6	19.6	55.0	0.0	58.4	64.5	70	N	-	-	1.2	Y	N	N
N4814	7	42.1	Area 48	-	56.9	62.5	53.9	52.8	19.6	55.2	0.0	58.9	64.8	70	N	-	-	1.2	Y	N	N
N4814	8	44.9	Area 48	-	57.1	62.8	54.7	53.0	19.6	55.5	0.0	59.3	65.1	70	N	-	-	1.3	Y	N	N
N4814	9	47.6	Area 48	-	57.3	63.0	55.4	53.0	19.5	55.7	0.0	59.6	65.4	70	N	-	-	1.4	Y	N	N
N4814	10	50.4	Area 48	-	57.3	63.3	55.9	53.0	19.5	55.9	0.0	59.9	65.6	70	N	-	-	1.3	Y	N	N
N4814	11	53.1	Area 48	-	57.3	63.7	56.5	53.0	19.5	56.3	0.0	60.3	65.9	70	N	-	-	1.3	Y	N	N
N4814	12	55.9	Area 48	-	57.3	64.0	56.9	53.0	19.5	56.5	0.0	60.5	66.2	70	N	-	-	1.4	Y	N	N
N4814	13	58.6	Area 48	-	57.3	64.4	57.4	53.0	19.5	56.8	0.0	60.9	66.6	70	N	-	-	1.4	Y	N	N
N4814	14	61.4	Area 48	-	57.3	64.9	57.7	53.0	19.4	57.0	0.0	61.1	66.9	70	N	-	-	1.3	Y	N	N
N4814	15	64.1	Area 48	-	57.3	65.5	58.2	53.0	19.4	57.3	0.0	61.5	67.4	70	N	-	-	1.3	Y	N	N
N4814	16	66.9	Area 48	-	57.3	66.1	58.6	53.0	19.4	57.6	0.0	61.7	67.9	70	N	-	-	1.3	Y	N	N
N4814	17	69.6	Area 48	-	57.3	66.8	58.8	53.1	19.4	57.9	0.0	62.0	68.4	70	N	-	-	1.1	Y	N	N
N4814	18	72.4	Area 48	-	57.3	67.3	59.1	53.1	19.4	58.3	0.0	62.3	68.8	70	N	-	-	1.1	Y	N	N
N4814	19	75.1	Area 48	-	57.3	67.9	59.2	53.1	19.4	58.6	0.0	62.5	69.3	70	N	-	-	1.0	Y	N	N
N4814	20	77.9	Area 48	-	57.2	68.5	59.4	53.1	19.3	58.9	0.0	62.7	69.7	70	N	-	-	0.9	N	N	N
N4814	21	80.6	Area 48	-	57.2	68.8	59.5	53.2	19.3	59.3	0.0	62.9	70.0	70	N	-	-	0.9	N	N	N
N4814	22	83.4	Area 48	-	57.2	69.1	59.6	53.3	19.4	59.5	0.0	63.0	70.3	70	N	-	-	0.9	N	N	N
N4814	23	86.1	Area 48	-	57.2	69.4	59.7	53.4	19.2	59.5	0.0	63.1	70.5	70	Y	-	-	0.8	N	N	N
N4814	24	88.9	Area 48	-	57.2	69.7	59.7	53.4	19.2	59.6	0.0	63.2	70.7	70	Y	-	-	0.8	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required[4,5] (Y/N)
							dB (A)														
N4814	25	91.6	Area 48	-	57.2	69.8	59.8	53.5	19.2	59.8	0.0	63.3	70.9	70	Y	-	-	0.9	N	N	N
N4814	26	94.4	Area 48	-	57.2	69.9	59.9	53.6	19.4	59.9	0.0	63.4	71.0	70	Y	-	-	0.9	N	N	N
N4814	27	97.1	Area 48	-	57.2	70.0	59.9	53.6	19.1	60.0	0.0	63.4	71.1	70	Y	-	-	0.9	N	N	N
N4814	28	99.9	Area 48	-	57.1	70.1	59.9	53.7	19.2	60.0	0.0	63.5	71.1	70	Y	-	-	0.8	N	N	N
N4814	29	102.6	Area 48	-	57.1	70.1	59.9	53.8	19.2	60.1	0.0	63.5	71.2	70	Y	-	-	0.9	N	N	N
N4814	30	105.4	Area 48	-	57.1	70.2	60.0	53.8	19.3	60.1	0.0	63.6	71.2	70	Y	-	-	0.8	N	N	N
N4814	31	108.1	Area 48	-	57.1	70.2	60.0	54.0	19.2	60.2	0.0	63.6	71.2	70	Y	-	-	0.8	N	N	N
N4814	32	110.9	Area 48	-	57.0	70.3	60.1	54.1	18.9	60.3	0.0	63.7	71.3	70	Y	-	-	0.8	N	N	N
N4814	33	113.6	Area 48	-	57.0	70.3	60.1	54.2	19.0	60.6	0.0	63.8	71.3	70	Y	-	-	0.8	N	N	N
N4814	34	116.4	Area 48	-	57.0	70.3	60.1	54.3	19.3	60.6	0.0	63.9	71.3	70	Y	-	-	0.8	N	N	N
N4814	35	119.1	Area 48	-	57.0	70.3	60.1	54.5	19.4	60.7	0.0	64.0	71.4	70	Y	-	-	0.9	N	N	N
N4814	36	121.9	Area 48	-	56.9	70.4	60.1	54.7	19.8	60.8	0.0	64.0	71.4	70	Y	-	-	0.8	N	N	N
N4814	37	124.6	Area 48	-	56.9	70.4	60.1	54.8	20.3	60.6	0.0	63.9	71.4	70	Y	-	-	0.8	N	N	N
N4814	38	127.4	Area 48	-	56.9	70.4	60.1	55.0	20.7	60.6	0.0	64.0	71.4	70	Y	-	-	0.8	N	N	N
N4814	39	130.1	Area 48	-	56.9	70.4	60.1	55.3	21.5	60.7	0.0	64.0	71.5	70	Y	-	-	0.9	N	N	N
N4814	40	132.9	Area 48	-	56.9	70.5	60.1	55.5	22.0	60.8	0.0	64.1	71.5	70	Y	-	-	0.8	N	N	N
N4815	1	25.6	Area 48	-	17.1	49.3	49.9	33.4	19.9	54.2	0.0	55.6	56.5	70	N	-	-	7.2	Y	N	N
N4815	2	28.4	Area 48	-	17.1	49.7	50.2	33.8	19.9	54.6	0.0	56.0	56.9	70	N	-	-	7.2	Y	N	N
N4815	3	31.1	Area 48	-	17.1	50.2	50.4	34.3	19.9	54.8	0.0	56.2	57.1	70	N	-	-	6.9	Y	N	N
N4815	4	33.9	Area 48	-	17.1	50.7	50.6	34.7	19.9	54.9	0.0	56.3	57.4	70	N	-	-	6.7	Y	N	N
N4815	5	36.6	Area 48	-	17.1	51.2	51.0	35.2	19.8	55.0	0.0	56.5	57.6	70	N	-	-	6.4	Y	N	N
N4815	6	39.4	Area 48	-	17.1	51.8	51.5	35.8	19.8	55.1	0.0	56.7	57.9	70	N	-	-	6.1	Y	N	N
N4815	7	42.1	Area 48	-	17.0	52.5	52.2	36.4	19.8	55.1	0.0	56.9	58.3	70	N	-	-	5.8	Y	N	N
N4815	8	44.9	Area 48	-	17.2	53.4	52.8	37.1	19.8	55.1	0.0	57.2	58.7	70	N	-	-	5.3	Y	N	N
N4815	9	47.6	Area 48	-	17.2	54.3	53.0	37.9	19.8	55.2	0.0	57.3	59.1	70	N	-	-	4.8	Y	N	N
N4815	10	50.4	Area 48	-	17.3	55.6	53.1	38.7	19.8	55.3	0.0	57.4	59.6	70	N	-	-	4.0	Y	N	N
N4815	11	53.1	Area 48	-	17.4	56.9	53.2	39.7	19.8	55.5	0.0	57.5	60.2	70	N	-	-	3.3	Y	N	N
N4815	12	55.9	Area 48	-	17.4	58.0	53.3	40.8	19.7	55.6	0.0	57.7	60.9	70	N	-	-	2.9	Y	N	N
N4815	13	58.6	Area 48	-	17.4	59.3	53.4	42.1	19.7	56.0	0.0	58.0	61.7	70	N	-	-	2.4	Y	N	N
N4815	14	61.4	Area 48	-	17.5	60.5	53.4	44.1	19.7	56.4	0.0	58.3	62.5	70	N	-	-	2.0	Y	N	N
N4815	15	64.1	Area 48	-	17.5	61.5	53.6	45.6	19.7	56.8	0.0	58.7	63.4	70	N	-	-	1.9	Y	N	N
N4815	16	66.9	Area 48	-	17.5	62.5	53.7	47.1	19.7	57.4	0.0	59.2	64.2	70	N	-	-	1.7	Y	N	N
N4815	17	69.6	Area 48	-	17.5	63.2	53.9	48.0	19.7	57.8	0.0	59.6	64.8	70	N	-	-	1.6	Y	N	N
N4815	18	72.4	Area 48	-	17.6	63.8	54.1	48.5	19.6	58.1	0.0	59.9	65.3	70	N	-	-	1.5	Y	N	N
N4815	19	75.1	Area 48	-	17.6	64.2	54.2	49.1	19.6	58.3	0.0	60.1	65.6	70	N	-	-	1.4	Y	N	N
N4815	20	77.9	Area 48	-	17.7	64.5	54.4	49.6	19.6	58.6	0.0	60.3	65.9	70	N	-	-	1.4	Y	N	N
N4815	21	80.6	Area 48	-	17.7	64.6	54.5	49.9	19.6	58.8	0.0	60.6	66.1	70	N	-	-	1.5	Y	N	N
N4815	22	83.4	Area 48	-	17.7	64.8	54.6	50.1	19.5	58.9	0.0	60.7	66.2	70	N	-	-	1.4	Y	N	N
N4815	23	86.1	Area 48	-	17.7	64.8	54.8	50.4	19.5	59.3	0.0	61.0	66.3	70	N	-	-	1.5	Y	N	N
N4815	24	88.9	Area 48	-	17.7	64.8	54.8	50.5	19.5	59.5	0.0	61.2	66.4	70	N	-	-	1.6	Y	N	N
N4815	25	91.6	Area 48	-	17.7	64.8	55.0	50.7	19.5	59.6	0.0	61.3	66.4	70	N	-	-	1.6	Y	N	N
N4815	26	94.4	Area 48	-	17.8	64.9	55.0	51.1	19.6	59.8	0.0	61.4	66.5	70	N	-	-	1.6	Y	N	N
N4815	27	97.1	Area 48	-	17.8	64.9	55.5	51.3	19.7	59.9	0.0	61.6	66.6	70	N	-	-	1.7	Y	N	N
N4815	28	99.9	Area 48	-	17.8	64.9	55.6	51.4	19.5	59.9	0.0	61.7	66.6	70	N	-	-	1.7	Y	N	N
N4815	29	102.6	Area 48	-	17.7	64.9	55.7	51.6	19.5	60.2	0.0	62.0	66.7	70	N	-	-	1.8	Y	N	N
N4815	30	105.4	Area 48	-	17.8	64.9	55.8	51.8	19.5	60.5	0.0	62.1	66.8	70	N	-	-	1.9	Y	N	N
N4815	31	108.1	Area 48	-	17.8	64.9	55.8	51.9	19.3	60.4	0.0	62.1	66.8	70	N	-	-	1.9	Y	N	N
N4815	32	110.9	Area 48	-	17.8	64.9	55.9	52.0	19.2	60.4	0.0	62.2	66.8	70	N	-	-	1.9	Y	N	N
N4815	33	113.6	Area 48	-	17.8	64.8	55.9	52.1	19.3	60.4	0.0	62.2	66.7	70	N	-	-	1.9	Y	N	N
N4815	34	116.4	Area 48	-	17.8	64.9	55.9	52.4	19.5	60.3	0.0	62.2	66.8	70	N	-	-	1.9	Y	N	N
N4815	35	119.1	Area 48	-	17.9	65.1	56.0	52.5	19.8	60.3	0.0	62.2	66.9	70	N	-	-	1.8	Y	N	N
N4816	1	25.6	Area 48	-	53.9	60.1	50.9	50.0	19.8	53.3	0.0	56.4	62.3	70	N	-	-	1.3	Y	N	N
N4816	2	28.4	Area 48	-	55.4	60.9	51.7	50.6	19.8	53.7	0.0	57.0	63.2	70	N	-	-	1.2	Y	N	N
N4816	3	31.1	Area 48	-	56.9	61.6	52.5	50.7	19.8	54.0	0.0	57.4	64.0	70	N	-	-	1.1	Y	N	N
N4816	4	33.9	Area 48	-	57.7	62.3	53.2	50.9	19.8	54.3	0.0	57.8	64.6	70	N	-	-	1.0	Y	N	N
N4816	5	36.6	Area 48	-	58.1	62.9	54.1	51.2	19.8	54.5	0.0	58.3	65.1	70	N	-	-	1.0	Y	N	N
N4816	6	39.4	Area 48	-	58.4	63.3	55.3	51.5	19.8	54.6	0.0	58.8	65.6	70	N	-	-	1.1	Y	N	N
N4816	7	42.1	Area 48	-	58.6	63.6	56.4	51.6	19.8	54.8	0.0	59.4	65.9	70	N	-	-	1.1	Y	N	N
N4816	8	44.9	Area 48	-	58.7	64.0	57.1	51.7	19.7	55.0	0.0	59.9	66.2	70	N	-	-	1.1	Y	N	N
N4816	9	47.6	Area 48	-	58.8	64.3	57.6	51.8	19.7	55.2	0.0	60.3	66.5	70	N	-	-	1.1	Y	N	N
N4816	10	50.4	Area 48	-	58.8	64.7	58.0	51.8	19.7	55.6	0.0	60.6	66.9	70	N	-	-	1.2	Y	N	N
N4816	11	53.1	Area 48	-	58.8	65.3	58.4	51.9	19.7	55.9	0.0	60.9	67.3	70	N	-	-	1.1	Y	N	N
N4816	12	55.9	Area 48	-	58.8	65.8	58.9	52.0	19.7	56.4	0.0	61.4	67.7	70	N	-	-	1.1	Y	N	N
N4816	13	58.6	Area 48	-	58.8	66.4	59.2	52.1	19.7	57.0	0.0	61.8	68.2	70	N	-	-	1.1	Y	N	N
N4816	14	61.4	Area 48	-	58.8	67.2	59.6	52.3	19.6	57.6	0.0	62.2	68.8	70	N	-	-	1.0	Y	N	N
N4816	15	64.1	Area 48	-	58.8	67.9	60.0	52.5	19.6	58.2	0.0	62.6	69.4	70	N	-	-	1.0	Y	N	N
N4816	16	66.9	Area 48	-	58.8	68.5	60.3	52.8	19.6	58.7	0.0	63.0	69.9	70	N	-	-	1.0	Y	N	N
N4816	17	69.6	Area 48	-	58.8	69.2	60.5	53.1	19.6	59.2	0.0	63.3	70.5	70	Y	-	-	0.9	N	N	N
N4816	18	72.4	Area 48	-	58.7	69.7	60.7	53.3	19.6	59.5	0.0	63.6	70.9	70	Y	-	-	0.9	N	N	N
N4816	19	75.1	Area 48	-	58.7	70.1	60.8	53.5	19.5	59.9	0.0	63.8	71.3	70	Y	-	-	0.9	N	N	N
N4816	20	77.9	Area 48	-	58.7	70.5	60.9	53.8	19.5	60.1	0.0	64.0	71.6	70	Y	-	-	0.8	N	N	N
N4816	21	80.6	Area 48	-	58.7	70.8	61.0	54.0	19.5	60.5	0.0	64.2	71.9	70	Y	-	-	0.8	N	N	N
N4816	22	83.4	Area 48	-	58.7	71.1	61.1	54.1	19.5	60.7	0.0	64.3	72.1	70	Y	-	-	0.8	N	N	N
N4816	23	86.1	Area 48	-	58.6	71.2	61.2	54.3	19.4	61.0	0.0	64.5	72.3	70	Y	-	-	0.9	N	N	N
N4816	24	88.9	Area 48	-	58.6	71.3	61.2	54.5	19.5	61.1	0.0	64.6	72.4	70	Y	-	-	0.9	N	N	N
N4816	25	91.6	Area 48	-	58.6	71.4	61.2	54.6	19.6	61.3	0.0	64.7	72.4	70	Y	-	-	0.8	N	N	N
N4816	26	94.4	Area 48	-	58.6	71.5	61.3	54.7	19.6	61.4	0.0	64.8	72.5	70	Y	-	-	0.8	N	N	N
N4816	27	97.1	Area 48	-	58.6	71.5	61.4	54.9	19.6	61.4	0.0	64.9	72.6	70	Y	-	-	0.9	N	N	N
N4816	28	99.9	Area 48	-	58.5	71.6	61.4	55.0	19.4	61.6	0.0	65.0	72.6	70	Y	-	-	0.8	N	N	N
N4816	29	102.6	Area 48	-	58.5	71.6	61.4	55.1	19.5	61.7	0.0	65.1	72.7	70	Y	-	-	0.9	N	N	N
N4816	30	105.4	Area 48	-	58.5	71.7	61.4	55.3	19.4	61.7	0.0	65.1	72.7	70	Y	-	-	0.8	N	N	N
N4816	31	108.1	Area 48	-	58.5	71.7	61.5	55.4	19.3	61.7	0.0	65.1	72.7	70	Y	-	-	0.8	N	N	N
N4816	32	110.9	Area 48	-	58.5	71.7	61.5	55.6	19.2	61.7	0.0	65.1	72.7	70	Y	-	-	0.8	N	N	N
N4816	33	113.6	Area 48	-	58.4	71.7	61.5	55.8	19.3	61.7	0.0	65.1	72.7	70	Y	-	-	0.8	N	N	N
N4816	34	116.4	Area 48	-	58.4	71.7	61.5	56.0	19.5	61.6	0.0	65.1	72.8	70	Y	-	-	0.9	N	N	N
N4816	35	119.1	Area 48	-	58.4	71.7	61.5	56.1	19.8	61.6	0.0	65.2	72.8	70	Y	-	-	0.9	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	New Roads[2]					New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
N4817	1	25.6	Area 48	-	58.8	60.3	45.5	48.8	0.0	40.3	0.0	50.8	62.9	70	N	-	-	0.3	N	N	N
N4817	2	28.4	Area 48	-	60.3	61.5	47.3	49.4	0.0	42.0	0.0	52.0	64.2	70	N	-	-	0.2	N	N	N
N4817	3	31.1	Area 48	-	62.2	62.3	48.9	49.7	0.0	43.7	0.0	52.9	65.5	70	N	-	-	0.2	N	N	N
N4817	4	33.9	Area 48	-	64.1	62.9	50.2	50.1	0.0	45.4	0.0	53.8	66.8	70	N	-	-	0.2	N	N	N
N4817	5	36.6	Area 48	-	65.2	63.4	51.6	50.8	0.0	46.2	0.0	54.9	67.6	70	N	-	-	0.2	N	N	N
N4817	6	39.4	Area 48	-	65.7	63.7	53.3	51.6	0.0	47.0	0.0	56.1	68.1	70	N	-	-	0.3	N	N	N
N4817	7	42.1	Area 48	-	65.9	64.0	54.7	52.1	0.0	47.6	0.0	57.1	68.4	70	N	-	-	0.3	N	N	N
N4817	8	44.9	Area 48	-	66.1	64.3	55.8	52.3	0.0	48.3	0.0	57.9	68.7	70	N	-	-	0.4	N	N	N
N4817	9	47.6	Area 48	-	66.1	64.6	56.5	52.5	0.0	49.0	0.0	58.5	68.8	70	N	-	-	0.4	N	N	N
N4817	10	50.4	Area 48	-	66.2	64.9	57.0	52.5	0.0	49.7	0.0	58.9	69.0	70	N	-	-	0.4	N	N	N
N4817	11	53.1	Area 48	-	66.2	65.2	57.4	52.6	0.0	50.7	0.0	59.3	69.2	70	N	-	-	0.5	N	N	N
N4817	12	55.9	Area 48	-	66.2	65.5	57.8	52.5	0.0	51.2	0.0	59.6	69.3	70	N	-	-	0.4	N	N	N
N4817	13	58.6	Area 48	-	66.2	65.9	58.3	52.5	0.0	52.0	0.0	60.1	69.5	70	N	-	-	0.4	N	N	N
N4817	14	61.4	Area 48	-	66.2	66.3	58.6	52.5	0.0	52.9	0.0	60.4	69.8	70	N	-	-	0.5	N	N	N
N4817	15	64.1	Area 48	-	66.2	66.8	59.0	52.5	0.0	53.5	0.0	60.8	70.0	70	N	-	-	0.5	N	N	N
N4817	16	66.9	Area 48	-	66.2	67.2	59.4	52.5	0.0	54.0	0.0	61.1	70.3	70	N	-	-	0.6	N	N	N
N4817	17	69.6	Area 48	-	66.2	67.6	59.7	52.5	0.0	54.3	0.0	61.4	70.5	70	Y	-	-	0.5	N	N	N
N4817	18	72.4	Area 48	-	66.2	68.0	59.8	52.5	0.0	54.6	0.0	61.5	70.8	70	Y	-	-	0.6	N	N	N
N4817	19	75.1	Area 48	-	66.1	68.5	60.0	52.5	0.0	54.9	0.0	61.7	71.0	70	Y	-	-	0.5	N	N	N
N4817	20	77.9	Area 48	-	66.2	68.8	60.0	52.5	0.0	55.1	0.0	61.8	71.2	70	Y	-	-	0.5	N	N	N
N4817	21	80.6	Area 48	-	66.2	69.2	60.1	52.6	0.0	55.3	0.0	61.9	71.5	70	Y	-	-	0.5	N	N	N
N4817	22	83.4	Area 48	-	66.2	69.6	60.2	52.6	0.0	55.4	0.0	62.0	71.7	70	Y	-	-	0.5	N	N	N
N4817	23	86.1	Area 48	-	66.2	69.8	60.2	52.5	0.0	55.5	0.0	62.0	71.9	70	Y	-	-	0.5	N	N	N
N4817	24	88.9	Area 48	-	66.2	70.0	60.3	52.6	0.0	55.6	0.0	62.0	72.0	70	Y	-	-	0.5	N	N	N
N4817	25	91.6	Area 48	-	66.2	70.2	60.3	52.6	0.0	55.6	0.0	62.1	72.1	70	Y	-	-	0.4	N	N	N
N4817	26	94.4	Area 48	-	66.2	70.3	60.3	52.6	0.0	55.7	0.0	62.1	72.2	70	Y	-	-	0.5	N	N	N
N4817	27	97.1	Area 48	-	66.2	70.4	60.3	52.6	0.0	55.7	0.0	62.1	72.2	70	Y	-	-	0.4	N	N	N
N4817	28	99.9	Area 48	-	66.2	70.4	60.4	52.6	0.0	55.7	0.0	62.1	72.3	70	Y	-	-	0.5	N	N	N
N4817	29	102.6	Area 48	-	66.1	70.5	60.4	52.7	0.0	55.7	0.0	62.2	72.3	70	Y	-	-	0.5	N	N	N
N4817	30	105.4	Area 48	-	66.2	70.5	60.4	52.8	0.0	55.7	0.0	62.2	72.3	70	Y	-	-	0.4	N	N	N
N4817	31	108.1	Area 48	-	66.2	70.6	60.4	52.8	0.0	55.7	0.0	62.2	72.4	70	Y	-	-	0.5	N	N	N
N4817	32	110.9	Area 48	-	66.1	70.6	60.4	52.9	0.0	55.6	0.0	62.2	72.4	70	Y	-	-	0.5	N	N	N
N4817	33	113.6	Area 48	-	66.1	70.6	60.4	53.0	0.0	55.7	0.0	62.2	72.4	70	Y	-	-	0.5	N	N	N
N4817	34	116.4	Area 48	-	66.1	70.6	60.4	53.1	0.0	55.7	0.0	62.2	72.4	70	Y	-	-	0.5	N	N	N
N4817	35	119.1	Area 48	-	66.1	70.6	60.4	53.2	0.0	55.6	0.0	62.2	72.4	70	Y	-	-	0.5	N	N	N
N4818	1	25.6	Area 48	-	57.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.2	70	N	-	-	0.0	N	N	N
N4818	2	28.4	Area 48	-	57.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.7	70	N	-	-	0.0	N	N	N
N4818	3	31.1	Area 48	-	58.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.5	70	N	-	-	0.0	N	N	N
N4818	4	33.9	Area 48	-	60.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.3	70	N	-	-	0.0	N	N	N
N4818	5	36.6	Area 48	-	61.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.8	70	N	-	-	0.0	N	N	N
N4818	6	39.4	Area 48	-	62.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.3	70	N	-	-	0.0	N	N	N
N4818	7	42.1	Area 48	-	62.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.6	70	N	-	-	0.0	N	N	N
N4818	8	44.9	Area 48	-	62.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.8	70	N	-	-	0.0	N	N	N
N4818	9	47.6	Area 48	-	62.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.8	70	N	-	-	0.0	N	N	N
N4818	10	50.4	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	11	53.1	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	12	55.9	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	13	58.6	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	14	61.4	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	15	64.1	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	16	66.9	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	17	69.6	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	18	72.4	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	19	75.1	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	20	77.9	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	21	80.6	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	22	83.4	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	23	86.1	Area 48	-	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	70	N	-	-	0.0	N	N	N
N4818	24	88.9	Area 48	-	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	70	N	-	-	0.0	N	N	N
N4818	25	91.6	Area 48	-	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	70	N	-	-	0.0	N	N	N
N4818	26	94.4	Area 48	-	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	70	N	-	-	0.0	N	N	N
N4818	27	97.1	Area 48	-	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	70	N	-	-	0.0	N	N	N
N4818	28	99.9	Area 48	-	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	70	N	-	-	0.0	N	N	N
N4818	29	102.6	Area 48	-	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	70	N	-	-	0.0	N	N	N
N4818	30	105.4	Area 48	-	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	70	N	-	-	0.0	N	N	N
N4818	31	108.1	Area 48	-	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	70	N	-	-	0.0	N	N	N
N4818	32	110.9	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	33	113.6	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	34	116.4	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	35	119.1	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4819	1	25.6	Area 48	-	58.7	57.9	43.7	48.9	0.0	27.3	0.0	50.0	61.6	70	N	-	-	0.3	N	N	N
N4819	2	28.4	Area 48	-	59.4	58.9	44.9	48.9	0.0	27.9	0.0	50.4	62.5	70	N	-	-	0.3	N	N	N
N4819	3	31.1	Area 48	-	60.7	60.3	46.2	49.0	0.0	28.4	0.0	50.9	63.8	70	N	-	-	0.3	N	N	N
N4819	4	33.9	Area 48	-	62.7	62.1	47.7	49.2	0.0	28.9	0.0	51.5	65.6	70	N	-	-	0.2	N	N	N
N4819	5	36.6	Area 48	-	64.2	62.9	49.4	49.5	0.0	29.4	0.0	52.4	66.8	70	N	-	-	0.2	N	N	N
N4819	6	39.4	Area 48	-	64.8	63.3	51.4	49.8	0.0	29.9	0.0	53.7	67.3	70	N	-	-	0.2	N	N	N
N4819	7	42.1	Area 48	-	65.1	63.6	52.9	50.2	0.0	30.4	0.0	54.8	67.7	70	N	-	-	0.3	N	N	N
N4819	8	44.9	Area 48	-	65.3	63.8	54.2	50.5	0.0	31.0	0.0	55.7	67.9	70	N	-	-	0.3	N	N	N
N4819	9	47.6	Area 48	-	65.4	64.0	55.0	50.8	0.0	31.6	0.0	56.4	68.1	70	N	-	-	0.3	N	N	N
N4819	10	50.4	Area 48	-	65.4	64.2	55.6	50.9	0.0	32.3	0.0	56.9	68.2	70	N	-	-	0.3	N	N	N
N4819	11	53.1	Area 48	-	65.4	64.4	56.1	51.0	0.0	32.9	0.0	57.3	68.3	70	N	-	-	0.4	N	N	N
N4819	12	55.9	Area 48	-	65.4	64.5	56.5	51.0	0.0	33.7	0.0	57.6	68.4	70	N	-	-	0.4	N	N	N
N4819	13	58.6	Area 48	-	65.4	64.7	56.9	51.0	0.0	34.6	0.0	57.9	68.5	70	N	-	-	0.4	N	N	N
N4819	14	61.4	Area 48	-	65.4	64.9	57.3	51.0	0.0	35.4	0.0	58.2	68.6	70	N	-	-	0.4	N	N	N
N4819	15	64.1	Area 48	-	65.4	65.1	57.6	51.0	0.0	36.2	0.0	58.4	68.7	70	N	-	-	0.4	N	N	N
N4819	16	66.9	Area 48	-	65.4	65.3	57.9	51.0	0.0	37.1	0.0	58.8	68.8	70	N	-	-	0.4	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required[4,5] (Y/N)
							dB (A)														
N4819	17	69.6	Area 48	-	65.4	65.6	58.3	50.9	0.0	38.1	0.0	59.1	69.0	70	N	-	-	0.5	N	N	N
N4819	18	72.4	Area 48	-	65.4	65.9	58.6	51.0	0.0	39.7	0.0	59.3	69.1	70	N	-	-	0.4	N	N	N
N4819	19	75.1	Area 48	-	65.4	66.2	58.8	51.0	0.0	40.3	0.0	59.5	69.3	70	N	-	-	0.5	N	N	N
N4819	20	77.9	Area 48	-	65.4	66.5	58.9	50.9	0.0	41.2	0.0	59.6	69.5	70	N	-	-	0.5	N	N	N
N4819	21	80.6	Area 48	-	65.4	66.9	59.0	51.0	0.0	42.2	0.0	59.7	69.7	70	N	-	-	0.5	N	N	N
N4819	22	83.4	Area 48	-	65.4	67.2	59.1	50.9	0.0	43.0	0.0	59.8	69.8	70	N	-	-	0.4	N	N	N
N4819	23	86.1	Area 48	-	65.4	67.4	59.2	50.9	0.0	43.5	0.0	59.9	70.0	70	N	-	-	0.5	N	N	N
N4819	24	88.9	Area 48	-	65.4	67.8	59.2	51.0	0.0	43.9	0.0	59.9	70.2	70	N	-	-	0.4	N	N	N
N4819	25	91.6	Area 48	-	65.4	68.0	59.2	51.0	0.0	44.0	0.0	59.9	70.4	70	N	-	-	0.5	N	N	N
N4819	26	94.4	Area 48	-	65.4	68.2	59.2	51.0	0.0	44.3	0.0	59.9	70.5	70	Y	-	-	0.5	N	N	N
N4819	27	97.1	Area 48	-	65.4	68.4	59.2	50.9	0.0	44.4	0.0	60.0	70.6	70	Y	-	-	0.4	N	N	N
N4819	28	99.9	Area 48	-	65.4	68.5	59.3	50.9	0.0	44.5	0.0	60.0	70.6	70	Y	-	-	0.4	N	N	N
N4819	29	102.6	Area 48	-	65.5	68.6	59.3	50.9	0.0	44.5	0.0	60.0	70.7	70	Y	-	-	0.4	N	N	N
N4819	30	105.4	Area 48	-	65.4	68.7	59.2	51.0	0.0	44.5	0.0	60.0	70.8	70	Y	-	-	0.4	N	N	N
N4819	31	108.1	Area 48	-	65.4	68.7	59.2	51.0	0.0	44.5	0.0	60.0	70.8	70	Y	-	-	0.4	N	N	N
N4819	32	110.9	Area 48	-	65.4	68.8	59.3	51.0	0.0	44.7	0.0	60.0	70.8	70	Y	-	-	0.4	N	N	N
N4819	33	113.6	Area 48	-	65.4	68.8	59.2	51.0	0.0	44.6	0.0	60.0	70.8	70	Y	-	-	0.4	N	N	N
N4819	34	116.4	Area 48	-	65.4	68.9	59.2	51.1	0.0	44.6	0.0	60.0	70.9	70	Y	-	-	0.4	N	N	N
N4819	35	119.1	Area 48	-	65.4	68.9	59.2	51.1	0.0	44.6	0.0	60.0	70.9	70	Y	-	-	0.4	N	N	N
N4820	1	25.6	Area 48	-	60.1	57.2	45.6	45.7	0.0	39.4	0.0	49.1	62.1	70	N	-	-	0.2	N	N	N
N4820	2	28.4	Area 48	-	60.6	58.3	47.0	46.0	0.0	40.5	0.0	50.1	62.8	70	N	-	-	0.2	N	N	N
N4820	3	31.1	Area 48	-	61.5	60.0	48.4	46.4	0.0	41.7	0.0	51.0	64.1	70	N	-	-	0.3	N	N	N
N4820	4	33.9	Area 48	-	63.4	62.2	49.5	47.3	0.0	42.8	0.0	52.1	66.0	70	N	-	-	0.1	N	N	N
N4820	5	36.6	Area 48	-	64.7	63.2	50.9	49.0	0.0	43.8	0.0	53.5	67.2	70	N	-	-	0.2	N	N	N
N4820	6	39.4	Area 48	-	65.3	63.6	52.6	50.2	0.0	44.5	0.0	55.0	67.8	70	N	-	-	0.3	N	N	N
N4820	7	42.1	Area 48	-	65.5	64.0	53.8	51.0	0.0	45.1	0.0	56.0	68.1	70	N	-	-	0.3	N	N	N
N4820	8	44.9	Area 48	-	65.7	64.2	54.9	51.4	0.0	45.8	0.0	56.9	68.3	70	N	-	-	0.3	N	N	N
N4820	9	47.6	Area 48	-	65.8	64.5	55.7	51.6	0.0	46.3	0.0	57.5	68.5	70	N	-	-	0.3	N	N	N
N4820	10	50.4	Area 48	-	65.8	64.7	56.2	51.8	0.0	47.0	0.0	57.9	68.7	70	N	-	-	0.4	N	N	N
N4820	11	53.1	Area 48	-	65.8	64.9	56.7	51.8	0.0	47.7	0.0	58.3	68.8	70	N	-	-	0.4	N	N	N
N4820	12	55.9	Area 48	-	65.8	65.1	57.0	51.8	0.0	48.4	0.0	58.6	68.9	70	N	-	-	0.4	N	N	N
N4820	13	58.6	Area 48	-	65.8	65.3	57.3	51.8	0.0	49.4	0.0	58.9	69.0	70	N	-	-	0.4	N	N	N
N4820	14	61.4	Area 48	-	65.8	65.6	57.7	51.8	0.0	49.8	0.0	59.2	69.2	70	N	-	-	0.5	N	N	N
N4820	15	64.1	Area 48	-	65.8	65.8	57.9	51.8	0.0	50.6	0.0	59.5	69.3	70	N	-	-	0.5	N	N	N
N4820	16	66.9	Area 48	-	65.8	66.1	58.2	51.8	0.0	51.4	0.0	59.8	69.5	70	N	-	-	0.5	N	N	N
N4820	17	69.6	Area 48	-	65.8	66.5	58.6	51.8	0.0	51.9	0.0	60.1	69.7	70	N	-	-	0.5	N	N	N
N4820	18	72.4	Area 48	-	65.8	66.8	58.9	51.8	0.0	52.4	0.0	60.4	69.9	70	N	-	-	0.6	N	N	N
N4820	19	75.1	Area 48	-	65.8	67.2	59.1	51.8	0.0	52.9	0.0	60.7	70.1	70	N	-	-	0.5	N	N	N
N4820	20	77.9	Area 48	-	65.8	67.5	59.3	51.8	0.0	53.1	0.0	60.8	70.3	70	N	-	-	0.6	N	N	N
N4820	21	80.6	Area 48	-	65.8	67.8	59.4	51.8	0.0	53.3	0.0	60.9	70.5	70	Y	-	-	0.6	N	N	N
N4820	22	83.4	Area 48	-	65.8	68.2	59.5	51.8	0.0	53.6	0.0	61.0	70.7	70	Y	-	-	0.5	N	N	N
N4820	23	86.1	Area 48	-	65.8	68.5	59.6	51.8	0.0	53.8	0.0	61.1	70.8	70	Y	-	-	0.4	N	N	N
N4820	24	88.9	Area 48	-	65.8	68.7	59.6	51.8	0.0	54.0	0.0	61.2	71.0	70	Y	-	-	0.5	N	N	N
N4820	25	91.6	Area 48	-	65.8	69.0	59.7	51.8	0.0	54.2	0.0	61.3	71.2	70	Y	-	-	0.5	N	N	N
N4820	26	94.4	Area 48	-	65.8	69.2	59.8	51.8	0.0	54.2	0.0	61.3	71.3	70	Y	-	-	0.5	N	N	N
N4820	27	97.1	Area 48	-	65.8	69.4	59.8	51.8	0.0	54.3	0.0	61.4	71.4	70	Y	-	-	0.4	N	N	N
N4820	28	99.9	Area 48	-	65.8	69.5	59.8	51.8	0.0	54.4	0.0	61.4	71.5	70	Y	-	-	0.5	N	N	N
N4820	29	102.6	Area 48	-	65.8	69.6	59.8	51.8	0.0	54.5	0.0	61.4	71.6	70	Y	-	-	0.5	N	N	N
N4820	30	105.4	Area 48	-	65.8	69.7	59.8	51.9	0.0	54.4	0.0	61.4	71.6	70	Y	-	-	0.4	N	N	N
N4820	31	108.1	Area 48	-	65.8	69.8	59.8	51.9	0.0	54.4	0.0	61.4	71.7	70	Y	-	-	0.4	N	N	N
N4820	32	110.9	Area 48	-	65.8	69.8	59.9	51.9	0.0	54.4	0.0	61.5	71.7	70	Y	-	-	0.4	N	N	N
N4820	33	113.6	Area 48	-	65.8	69.8	59.9	51.9	0.0	54.5	0.0	61.5	71.7	70	Y	-	-	0.4	N	N	N
N4820	34	116.4	Area 48	-	65.8	69.8	59.9	51.9	0.0	54.4	0.0	61.5	71.7	70	Y	-	-	0.4	N	N	N
N4820	35	119.1	Area 48	-	65.8	69.9	59.9	52.0	0.0	54.4	0.0	61.5	71.8	70	Y	-	-	0.5	N	N	N
N4821	1	25.6	Area 48	-	60.3	56.0	45.8	44.2	0.0	40.0	0.0	48.7	61.9	70	N	-	-	0.2	N	N	N
N4821	2	28.4	Area 48	-	60.7	57.3	47.3	44.6	0.0	41.1	0.0	49.8	62.6	70	N	-	-	0.3	N	N	N
N4821	3	31.1	Area 48	-	61.6	59.3	48.6	45.2	0.0	42.3	0.0	50.9	63.9	70	N	-	-	0.3	N	N	N
N4821	4	33.9	Area 48	-	63.4	62.1	49.7	46.5	0.0	43.5	0.0	52.1	66.0	70	N	-	-	0.2	N	N	N
N4821	5	36.6	Area 48	-	64.7	63.3	51.0	48.8	0.0	44.6	0.0	53.6	67.3	70	N	-	-	0.2	N	N	N
N4821	6	39.4	Area 48	-	65.3	63.8	52.7	50.2	0.0	45.3	0.0	55.1	67.8	70	N	-	-	0.2	N	N	N
N4821	7	42.1	Area 48	-	65.6	64.1	53.9	51.2	0.0	46.0	0.0	56.2	68.2	70	N	-	-	0.3	N	N	N
N4821	8	44.9	Area 48	-	65.7	64.4	55.0	51.7	0.0	46.6	0.0	57.1	68.4	70	N	-	-	0.3	N	N	N
N4821	9	47.6	Area 48	-	65.8	64.6	55.8	51.9	0.0	47.2	0.0	57.7	68.6	70	N	-	-	0.3	N	N	N
N4821	10	50.4	Area 48	-	65.8	64.8	56.3	52.0	0.0	47.7	0.0	58.1	68.8	70	N	-	-	0.5	N	N	N
N4821	11	53.1	Area 48	-	65.9	65.0	56.7	52.1	0.0	48.2	0.0	58.5	68.9	70	N	-	-	0.4	N	N	N
N4821	12	55.9	Area 48	-	65.9	65.2	57.1	52.1	0.0	48.9	0.0	58.7	69.0	70	N	-	-	0.4	N	N	N
N4821	13	58.6	Area 48	-	65.9	65.4	57.4	52.1	0.0	49.9	0.0	59.1	69.1	70	N	-	-	0.4	N	N	N
N4821	14	61.4	Area 48	-	65.9	65.6	57.7	52.1	0.0	50.2	0.0	59.3	69.2	70	N	-	-	0.4	N	N	N
N4821	15	64.1	Area 48	-	65.9	65.9	58.0	52.1	0.0	50.9	0.0	59.6	69.4	70	N	-	-	0.5	N	N	N
N4821	16	66.9	Area 48	-	65.9	66.2	58.3	52.1	0.0	51.7	0.0	59.9	69.6	70	N	-	-	0.5	N	N	N
N4821	17	69.6	Area 48	-	65.9	66.6	58.6	52.1	0.0	52.3	0.0	60.2	69.8	70	N	-	-	0.5	N	N	N
N4821	18	72.4	Area 48	-	65.9	66.9	58.9	52.1	0.0	52.7	0.0	60.5	70.0	70	N	-	-	0.6	N	N	N
N4821	19	75.1	Area 48	-	65.9	67.3	59.1	52.1	0.0	53.1	0.0	60.7	70.2	70	N	-	-	0.5	N	N	N
N4821	20	77.9	Area 48	-	65.9	67.6	59.3	52.1	0.0	53.4	0.0	60.9	70.3	70	N	-	-	0.5	N	N	N
N4821	21	80.6	Area 48	-	65.9	68.0	59.4	52.1	0.0	53.7	0.0	61.1	70.6	70	Y	-	-	0.5	N	N	N
N4821	22	83.4	Area 48	-	65.9	68.3	59.5	52.1	0.0	54.0	0.0	61.2	70.8	70	Y	-	-	0.5	N	N	N
N4821	23	86.1	Area 48	-	65.9	68.6	59.6	52.1	0.0	54.3	0.0	61.3	70.9	70	Y	-	-	0.4	N	N	N
N4821	24	88.9	Area 48	-	65.9	68.9	59.7	52.1	0.0	54.5	0.0	61.4	71.1	70	Y	-	-	0.4	N	N	N
N4821	25	91.6	Area 48	-	65.9	69.1	59.7	52.1	0.0	54.6	0.0	61.4	71.3	70	Y	-	-	0.5	N	N	N
N4821	26	94.4	Area 48	-	65.9	69.3	59.8	52.1	0.0	54.8	0.0	61.5	71.4	70	Y	-	-	0.5	N	N	N
N4821	27	97.1	Area 48	-	65.9	69.5	59.8	52.1	0.0	55.0	0.0	61.6	71.5	70	Y	-	-	0.4	N	N	N
N4821	28	99.9	Area 48	-	65.9	69.6	59.8	52.1	0.0	55.0	0.0	61.6	71.6	70	Y	-	-	0.5	N	N	N
N4821	29	102.6	Area 48	-	65.9	69.8	59.9	52.1	0.0	55.1	0.0	61.6	71.7	70	Y	-	-	0.4	N	N	N
N4821	30	105.4	Area 48	-	65.9	69.8	59.9	52.1	0.0	55.3	0.0	61.7	71.8	70	Y	-	-	0.5	N	N	N
N4821	31	108.1	Area 48	-	65.8	69.9	59.9	52.2	0.0	55.3	0.0	61.7	71.8	70	Y	-	-	0.5	N	N	N
N4821	32	110.9	Area 48	-	65.8	69.9	59.9	52.2	0.0	55.2	0.0	61.7	71.8	70	Y	-	-	0.5	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	New Roads[2]					New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)							dB (A)												
N4821	33	113.6	Area 48	-	65.8	70.0	59.9	52.2	0.0	55.4	0.0	61.7	71.8	70	Y	-	-	0.4	N	N	N
N4821	34	116.4	Area 48	-	65.8	70.0	60.0	52.3	0.0	55.4	0.0	61.8	71.9	70	Y	-	-	0.5	N	N	N
N4821	35	119.1	Area 48	-	65.8	70.0	60.0	52.3	0.0	55.4	0.0	61.8	71.9	70	Y	-	-	0.5	N	N	N
N4822	1	25.6	Area 48	-	60.5	53.9	46.0	38.0	0.0	40.0	0.0	47.5	61.5	70	N	-	-	0.1	N	N	N
N4822	2	28.4	Area 48	-	60.9	55.7	47.3	39.7	0.0	41.0	0.0	48.8	62.2	70	N	-	-	0.2	N	N	N
N4822	3	31.1	Area 48	-	61.8	58.4	48.6	41.7	0.0	42.1	0.0	50.1	63.6	70	N	-	-	0.2	N	N	N
N4822	4	33.9	Area 48	-	63.5	61.6	49.8	44.4	0.0	43.5	0.0	51.6	65.8	70	N	-	-	0.1	N	N	N
N4822	5	36.6	Area 48	-	64.7	63.2	51.0	48.0	0.0	44.5	0.0	53.4	67.2	70	N	-	-	0.2	N	N	N
N4822	6	39.4	Area 48	-	65.3	63.7	52.6	50.0	0.0	45.2	0.0	55.0	67.8	70	N	-	-	0.2	N	N	N
N4822	7	42.1	Area 48	-	65.6	64.1	53.9	51.1	0.0	45.9	0.0	56.1	68.2	70	N	-	-	0.3	N	N	N
N4822	8	44.9	Area 48	-	65.7	64.4	55.0	51.7	0.0	46.4	0.0	57.0	68.4	70	N	-	-	0.3	N	N	N
N4822	9	47.6	Area 48	-	65.8	64.6	55.7	52.0	0.0	47.0	0.0	57.6	68.6	70	N	-	-	0.3	N	N	N
N4822	10	50.4	Area 48	-	65.8	64.8	56.3	52.1	0.0	47.6	0.0	58.1	68.7	70	N	-	-	0.4	N	N	N
N4822	11	53.1	Area 48	-	65.9	65.0	56.7	52.2	0.0	48.2	0.0	58.5	68.9	70	N	-	-	0.4	N	N	N
N4822	12	55.9	Area 48	-	65.9	65.2	57.0	52.2	0.0	48.8	0.0	58.7	69.0	70	N	-	-	0.4	N	N	N
N4822	13	58.6	Area 48	-	65.9	65.4	57.3	52.3	0.0	49.6	0.0	59.0	69.1	70	N	-	-	0.4	N	N	N
N4822	14	61.4	Area 48	-	65.9	65.6	57.6	52.2	0.0	49.9	0.0	59.2	69.2	70	N	-	-	0.4	N	N	N
N4822	15	64.1	Area 48	-	65.9	65.9	58.0	52.2	0.0	50.6	0.0	59.6	69.4	70	N	-	-	0.5	N	N	N
N4822	16	66.9	Area 48	-	65.9	66.2	58.2	52.2	0.0	51.4	0.0	59.8	69.5	70	N	-	-	0.4	N	N	N
N4822	17	69.6	Area 48	-	65.9	66.5	58.5	52.2	0.0	52.0	0.0	60.1	69.7	70	N	-	-	0.5	N	N	N
N4822	18	72.4	Area 48	-	65.9	66.9	58.8	52.2	0.0	52.5	0.0	60.4	69.9	70	N	-	-	0.5	N	N	N
N4822	19	75.1	Area 48	-	65.9	67.2	59.0	52.2	0.0	53.0	0.0	60.6	70.1	70	N	-	-	0.5	N	N	N
N4822	20	77.9	Area 48	-	65.9	67.5	59.2	52.2	0.0	53.2	0.0	60.8	70.3	70	N	-	-	0.5	N	N	N
N4822	21	80.6	Area 48	-	65.9	67.9	59.4	52.2	0.0	53.5	0.0	61.0	70.5	70	Y	-	-	0.5	N	N	N
N4822	22	83.4	Area 48	-	65.9	68.2	59.5	52.2	0.0	53.8	0.0	61.1	70.7	70	Y	-	-	0.5	N	N	N
N4822	23	86.1	Area 48	-	65.9	68.5	59.6	52.2	0.0	54.1	0.0	61.2	70.9	70	Y	-	-	0.5	N	N	N
N4822	24	88.9	Area 48	-	65.9	68.8	59.6	52.2	0.0	54.5	0.0	61.4	71.1	70	Y	-	-	0.5	N	N	N
N4822	25	91.6	Area 48	-	65.9	69.0	59.7	52.2	0.0	54.5	0.0	61.4	71.2	70	Y	-	-	0.5	N	N	N
N4822	26	94.4	Area 48	-	65.9	69.3	59.7	52.2	0.0	54.8	0.0	61.5	71.4	70	Y	-	-	0.5	N	N	N
N4822	27	97.1	Area 48	-	65.9	69.4	59.8	52.2	0.0	55.0	0.0	61.6	71.5	70	Y	-	-	0.5	N	N	N
N4822	28	99.9	Area 48	-	65.9	69.6	59.8	52.2	0.0	55.2	0.0	61.6	71.6	70	Y	-	-	0.5	N	N	N
N4822	29	102.6	Area 48	-	65.9	69.7	59.8	52.2	0.0	55.3	0.0	61.7	71.6	70	Y	-	-	0.4	N	N	N
N4822	30	105.4	Area 48	-	65.9	69.8	59.9	52.2	0.0	55.4	0.0	61.7	71.7	70	Y	-	-	0.4	N	N	N
N4822	31	108.1	Area 48	-	65.9	69.9	59.9	52.2	0.0	55.4	0.0	61.7	71.8	70	Y	-	-	0.4	N	N	N
N4822	32	110.9	Area 48	-	65.8	69.9	59.9	52.2	0.0	55.5	0.0	61.8	71.8	70	Y	-	-	0.5	N	N	N
N4822	33	113.6	Area 48	-	65.8	70.0	59.9	52.3	0.0	55.5	0.0	61.8	71.8	70	Y	-	-	0.4	N	N	N
N4822	34	116.4	Area 48	-	65.8	70.0	60.0	52.3	0.0	55.5	0.0	61.8	71.8	70	Y	-	-	0.4	N	N	N
N4822	35	119.1	Area 48	-	65.8	70.0	59.9	52.3	0.0	55.6	0.0	61.8	71.8	70	Y	-	-	0.4	N	N	N
N4823	1	24.1	Area 48	-	52.8	55.9	48.9	57.0	0.0	55.0	0.0	59.5	61.7	70	N	-	-	4.1	Y	N	N
N4823	2	26.9	Area 48	-	53.5	56.7	49.3	57.0	0.0	55.2	0.0	59.6	62.1	70	N	-	-	3.7	Y	N	N
N4823	3	29.6	Area 48	-	54.9	57.7	49.9	57.0	0.0	55.8	0.0	59.9	62.7	70	N	-	-	3.2	Y	N	N
N4823	4	32.4	Area 48	-	58.1	58.8	50.6	56.9	0.0	56.6	0.0	60.3	63.9	70	N	-	-	2.4	Y	N	N
N4823	5	35.1	Area 48	-	59.9	59.9	51.7	56.9	0.0	57.3	0.0	60.7	64.9	70	N	-	-	2.0	Y	N	N
N4823	6	37.9	Area 48	-	60.9	61.2	53.5	56.9	0.0	57.9	0.0	61.2	65.9	70	N	-	-	1.8	Y	N	N
N4823	7	40.6	Area 48	-	61.9	62.8	56.1	56.9	0.0	58.4	0.0	62.0	67.0	70	N	-	-	1.6	Y	N	N
N4823	8	43.4	Area 48	-	62.7	64.0	58.2	57.0	0.0	58.7	0.0	62.8	68.0	70	N	-	-	1.6	Y	N	N
N4823	9	46.1	Area 48	-	63.3	65.3	59.2	57.1	0.0	59.1	0.0	63.3	68.9	70	N	-	-	1.5	Y	N	N
N4823	10	48.9	Area 48	-	63.6	66.5	60.1	57.2	0.0	59.4	0.0	63.9	69.6	70	N	-	-	1.3	Y	N	N
N4823	11	51.6	Area 48	-	63.8	67.8	60.5	57.2	0.0	59.7	0.0	64.1	70.4	70	N	-	-	1.1	Y	N	N
N4823	12	54.4	Area 48	-	63.8	69.1	60.7	57.2	0.0	60.4	0.0	64.5	71.3	70	Y	-	-	1.1	Y	N	Y
N4823	13	57.1	Area 48	-	63.9	70.0	60.8	57.2	0.0	61.3	0.0	64.9	71.9	70	Y	-	-	0.9	N	N	N
N4823	14	59.9	Area 48	-	63.9	70.7	60.9	57.3	0.0	62.0	0.0	65.2	72.4	70	Y	-	-	0.9	N	N	N
N4823	15	62.6	Area 48	-	63.9	71.1	61.0	57.3	0.0	62.3	0.0	65.4	72.8	70	Y	-	-	0.9	N	N	N
N4823	16	65.4	Area 48	-	64.0	71.4	61.1	57.4	0.0	62.4	0.0	65.5	73.0	70	Y	-	-	0.9	N	N	N
N4823	17	68.1	Area 48	-	64.0	71.5	61.2	57.6	0.0	62.6	0.0	65.7	73.1	70	Y	-	-	0.9	N	N	N
N4823	18	70.9	Area 48	-	64.0	71.7	61.3	57.8	0.0	62.6	0.0	65.8	73.2	70	Y	-	-	0.8	N	N	N
N4823	19	73.6	Area 48	-	64.0	71.9	61.3	58.1	0.0	62.7	0.0	65.9	73.4	70	Y	-	-	0.8	N	N	N
N4823	20	76.4	Area 48	-	64.0	71.9	61.4	58.5	0.0	62.7	0.0	66.0	73.4	70	Y	-	-	0.8	N	N	N
N4823	21	79.1	Area 48	-	64.0	72.0	61.4	58.9	0.0	62.6	0.0	66.0	73.5	70	Y	-	-	0.9	N	N	N
N4823	22	81.9	Area 48	-	64.0	72.0	61.5	59.3	0.0	62.6	0.0	66.1	73.5	70	Y	-	-	0.9	N	N	N
N4823	23	84.6	Area 48	-	64.0	72.1	61.5	59.6	0.0	62.6	0.0	66.2	73.6	70	Y	-	-	0.9	N	N	N
N4823	24	87.4	Area 48	-	64.0	72.1	61.6	59.7	0.0	62.6	0.0	66.2	73.6	70	Y	-	-	0.9	N	N	N
N4823	25	90.1	Area 48	-	64.0	72.1	61.6	59.9	0.0	62.5	0.0	66.2	73.6	70	Y	-	-	0.9	N	N	N
N4823	26	92.9	Area 48	-	64.0	72.1	61.6	60.0	0.0	62.4	0.0	66.2	73.6	70	Y	-	-	0.9	N	N	N
N4823	27	95.6	Area 48	-	64.0	72.1	61.6	60.1	0.0	62.4	0.0	66.2	73.6	70	Y	-	-	0.9	N	N	N
N4823	28	98.4	Area 48	-	64.1	72.1	61.6	60.2	0.0	62.3	0.0	66.2	73.6	70	Y	-	-	0.9	N	N	N
N4823	29	101.1	Area 48	-	64.1	72.1	61.6	60.3	0.0	62.2	0.0	66.2	73.6	70	Y	-	-	0.9	N	N	N
N4823	30	103.9	Area 48	-	64.1	72.1	61.6	60.4	0.0	62.2	0.0	66.2	73.6	70	Y	-	-	0.9	N	N	N
N4823	31	106.6	Area 48	-	64.1	72.1	61.6	60.4	0.0	62.1	0.0	66.2	73.6	70	Y	-	-	0.9	N	N	N
N4823	32	109.4	Area 48	-	64.1	72.1	61.6	60.4	0.0	62.0	0.0	66.2	73.6	70	Y	-	-	0.9	N	N	N
N4823	33	112.1	Area 48	-	64.2	72.1	61.6	60.4	0.0	62.0	0.0	66.2	73.6	70	Y	-	-	0.8	N	N	N
N4823	34	114.9	Area 48	-	64.2	72.1	61.6	60.4	0.0	61.9	0.0	66.1	73.6	70	Y	-	-	0.8	N	N	N
N4823	35	117.6	Area 48	-	64.3	72.1	61.5	60.4	0.0	61.8	0.0	66.1	73.6	70	Y	-	-	0.8	N	N	N
N4823	36	120.4	Area 48	-	64.3	72.1	61.5	60.4	0.0	61.8	0.0	66.1	73.6	70	Y	-	-	0.8	N	N	N
N4823	37	123.1	Area 48	-	64.3	72.1	61.5	60.3	0.0	61.7	0.0	66.0	73.6	70	Y	-	-	0.8	N	N	N
N4823	38	125.9	Area 48	-	64.4	72.1	61.5	60.3	0.0	61.7	0.0	66.0	73.6	70	Y	-	-	0.8	N	N	N
N4823	39	128.6	Area 48	-	64.4	72.1	61.5	60.3	0.0	61.6	0.0	65.9	73.6	70	Y	-	-	0.8	N	N	N
N4901	1	14.9	Area 48	-	59.7	48.0	0.0	46.9	0.0	0.0	0.0	46.9	60.2	65	N	-	-	0.2	N	N	N
N4901	2	17.9	Area 48	-	59.8	48.8	0.0	46.9	0.0	0.0	0.0	46.9	60.4	65	N	-	-	0.3	N	N	N
N4901	3	20.9	Area 48	-	60.0	49.6	0.0	46.9	0.0	0.0	0.0	46.9	60.6	65	N	-	-	0.2	N	N	N
N4901	4	23.9	Area 48	-	60.2	50.5	0.0	46.9	0.0	0.0	0.0	46.9	60.8	65	N	-	-	0.2	N	N	N
N4901	5	26.9	Area 48	-	60.5	51.5	0.0	46.8	0.0	0.0	0.0	46.8	61.2	65	N	-	-	0.2	N	N	N
N4901	6	29.9	Area 48	-	61.1	52.6	0.0	46.8	0.0	0.0	0.0	46.8	61.8	65	N	-	-	0.1	N	N	N
N4901	7	32.9	Area 48	-	61.7	53.7	0.0	46.8	0.0	0.0	0.0	46.8	62.5	65	N	-	-	0.2	N	N	N
N4901	8	35.9	Area 48	-	62.5	55.1	0.0	46.9	0.0	0.0	0.0	46.9	63.4	65	N	-	-	0.2	N	N	N
N4902	1	14.9	Area 48	-	0.0	57.3	50.6	63.9	23.8	58.5	0.0	65.1	65.8	65	Y	-	-	8.5	Y	N	Y

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N4902	2	17.9	Area 48	-	0.0	58.3	51.6	63.9	23.8	59.6	0.0	65.4	66.2	65	Y	-	-	7.9	Y	N	Y
N4902	3	20.9	Area 48	-	0.0	59.4	52.1	63.8	23.8	61.2	0.0	65.9	66.8	65	Y	-	-	7.4	Y	Y	Y
N4902	4	23.9	Area 48	-	0.0	60.7	52.6	63.8	23.8	62.3	0.0	66.3	67.3	65	Y	-	-	6.6	Y	Y	Y
N4902	5	26.9	Area 48	-	0.0	62.2	53.0	63.7	23.8	63.6	0.0	66.8	68.1	65	Y	-	-	5.9	Y	Y	Y
N4902	6	29.9	Area 48	-	0.0	64.2	53.4	63.5	23.8	64.9	0.0	67.4	69.1	65	Y	-	-	4.9	Y	Y	Y
N4902	7	32.9	Area 48	-	0.0	66.2	53.8	63.4	23.8	65.5	0.0	67.7	70.1	65	Y	-	-	3.9	Y	Y	Y
N4902	8	35.9	Area 48	-	0.0	68.2	54.4	63.3	23.7	66.0	0.0	68.0	71.1	65	Y	-	-	2.9	Y	Y	Y
N4903	1	22.4	Area 48	-	33.3	67.7	51.1	57.9	36.5	64.8	0.0	65.8	69.9	65	Y	-	-	2.2	Y	Y	Y
N4903	2	25.4	Area 48	-	33.3	68.0	51.5	58.2	37.7	65.7	0.0	66.6	70.3	65	Y	-	-	2.3	Y	Y	Y
N4903	3	28.4	Area 48	-	33.3	68.1	52.0	58.5	38.6	66.5	0.0	67.3	70.7	65	Y	-	-	2.6	Y	Y	Y
N4903	4	31.4	Area 48	-	33.3	68.2	52.4	58.6	39.3	67.0	0.0	67.7	71.0	65	Y	-	-	2.8	Y	Y	Y
N4903	5	34.4	Area 48	-	33.3	68.2	53.0	58.6	40.1	67.4	0.0	68.1	71.2	65	Y	-	-	3.0	Y	Y	Y
N4903	6	37.4	Area 48	-	33.3	68.2	53.7	58.7	41.0	67.7	0.0	68.4	71.3	65	Y	-	-	3.1	Y	Y	Y
N4903	7	40.4	Area 48	-	33.3	68.2	54.7	58.8	42.3	68.0	0.0	68.7	71.5	65	Y	-	-	3.3	Y	Y	Y
N4903	8	43.4	Area 48	-	33.3	68.2	55.4	58.8	44.1	68.3	0.0	69.0	71.6	65	Y	-	-	3.4	Y	Y	Y
N4904	1	22.4	Area 48	-	43.5	28.9	50.2	51.4	46.4	67.6	0.0	67.8	67.8	65	Y	-	-	24.2	Y	Y	Y
N4904	2	25.4	Area 48	-	43.5	29.7	51.0	52.4	47.7	68.1	0.0	68.4	68.4	65	Y	-	-	24.7	Y	Y	Y
N4904	3	28.4	Area 48	-	43.6	30.7	51.8	53.2	48.9	68.7	0.0	68.9	69.0	65	Y	-	-	25.2	Y	Y	Y
N4904	4	31.4	Area 48	-	43.7	31.8	52.5	54.2	49.6	69.3	0.0	69.6	69.6	65	Y	-	-	25.6	Y	Y	Y
N4904	5	34.4	Area 48	-	43.8	33.0	53.2	55.2	50.1	69.9	0.0	70.2	70.2	65	Y	-	-	26.1	Y	Y	Y
N4904	6	37.4	Area 48	-	43.9	34.4	54.1	56.1	50.5	70.3	0.0	70.6	70.6	65	Y	-	-	26.2	Y	Y	Y
N4904	7	40.4	Area 48	-	44.0	36.0	54.7	56.6	51.0	70.8	0.0	71.1	71.1	65	Y	-	-	26.5	Y	Y	Y
N4904	8	43.4	Area 48	-	44.4	37.7	54.9	57.2	51.4	71.1	0.0	71.4	71.4	65	Y	-	-	26.2	Y	Y	Y
N4911	1	17.5	Area 48	-	55.6	59.1	41.6	50.4	0.0	33.1	0.0	51.0	61.2	65	N	-	-	0.5	N	N	N
N4912	1	17.5	Area 48	-	57.8	58.5	45.7	54.2	8.1	46.5	0.0	55.4	62.2	65	N	-	-	1.0	Y	N	N
N4913	1	17.5	Area 48	-	54.5	57.2	44.9	53.5	10.1	46.1	0.0	54.7	60.4	70	N	-	-	1.3	Y	N	N
N4913	2	22.0	Area 48	-	56.6	58.6	46.6	53.5	10.2	47.2	0.0	55.1	61.7	70	N	-	-	1.0	Y	N	N
N4913	3	26.5	Area 48	-	59.2	60.2	48.5	53.5	10.2	48.4	0.0	55.6	63.5	70	N	-	-	0.8	N	N	N
N4914	1	17.5	Area 48	-	58.7	52.1	37.0	48.4	23.4	43.2	0.0	49.8	60.0	70	N	-	-	0.4	N	N	N
N4914	2	22.0	Area 48	-	58.9	53.3	38.7	48.5	24.8	45.1	0.0	50.4	60.4	70	N	-	-	0.4	N	N	N
N4914	3	26.5	Area 48	-	59.1	55.0	41.2	48.7	26.3	47.5	0.0	51.6	61.0	70	N	-	-	0.5	N	N	N
N4915	1	17.5	Area 48	-	16.5	52.7	46.8	55.8	22.9	52.5	0.0	57.9	59.0	70	N	-	-	6.3	Y	N	N
N4915	2	22.0	Area 48	-	16.6	53.8	47.4	55.8	22.9	53.8	0.0	58.3	59.6	70	N	-	-	5.8	Y	N	N
N4915	3	26.5	Area 48	-	16.4	55.1	48.0	55.8	22.9	54.5	0.0	58.6	60.2	70	N	-	-	5.1	Y	N	N
N5300	1	11.7	D2-2	-	0.0	0.0	61.1	58.9	56.5	0.0	0.0	64.0	64.0	70	N	-	-	61.0	Y	N	N
N5300	2	14.5	D2-2	-	0.0	0.0	61.8	58.8	56.5	0.0	0.0	64.4	64.4	70	N	-	-	61.4	Y	N	N
N5300	3	17.3	D2-2	-	0.0	0.0	62.5	58.8	56.5	0.0	0.0	64.8	64.8	70	N	-	-	61.8	Y	N	N
N5300	4	20.1	D2-2	-	0.0	0.0	63.1	58.8	56.5	0.0	0.0	65.1	65.1	70	N	-	-	62.1	Y	N	N
N5300	5	22.9	D2-2	-	0.0	0.0	63.7	58.8	56.5	0.0	0.0	65.5	65.5	70	N	-	-	62.5	Y	N	N
N5300	6	25.7	D2-2	-	0.0	0.0	64.1	58.7	56.5	0.0	0.0	65.8	65.8	70	N	-	-	62.8	Y	N	N
N5300	7	28.5	D2-2	-	0.0	0.0	64.6	58.7	56.5	0.0	0.0	66.1	66.1	70	N	-	-	63.1	Y	N	N
N5300	8	31.3	D2-2	-	0.0	0.0	64.9	58.6	56.5	0.0	0.0	66.3	66.3	70	N	-	-	63.3	Y	N	N
N5300	9	34.1	D2-2	-	0.0	0.0	65.1	58.6	56.5	0.0	0.0	66.5	66.5	70	N	-	-	63.5	Y	N	N
N5300	10	36.9	D2-2	-	0.0	0.0	65.4	58.6	56.5	0.0	0.0	66.6	66.6	70	N	-	-	63.6	Y	N	N
N5300	11	39.7	D2-2	-	0.0	0.0	65.5	58.5	56.5	0.0	0.0	66.8	66.8	70	N	-	-	63.8	Y	N	N
N5300	12	42.5	D2-2	-	0.0	0.0	65.7	58.5	56.5	0.0	0.0	66.8	66.8	70	N	-	-	63.8	Y	N	N
N5300	13	45.3	D2-2	-	0.0	0.0	65.8	58.4	56.5	0.0	0.0	66.9	66.9	70	N	-	-	63.9	Y	N	N
N5300	14	48.1	D2-2	-	0.0	0.0	65.9	58.4	56.5	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
N5300	15	50.9	D2-2	-	0.0	0.0	65.9	58.3	56.4	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
N5300	16	53.7	D2-2	-	0.0	0.0	66.0	58.2	56.4	0.0	0.0	67.1	67.1	70	N	-	-	64.1	Y	N	N
N5300	17	56.5	D2-2	-	0.0	0.0	66.0	58.2	56.4	0.0	0.0	67.1	67.1	70	N	-	-	64.1	Y	N	N
N5300	18	59.3	D2-2	-	0.0	0.0	66.0	58.1	56.4	0.0	0.0	67.1	67.1	70	N	-	-	64.1	Y	N	N
N5300	19	62.1	D2-2	-	0.0	0.0	66.1	58.1	56.4	0.0	0.0	67.1	67.1	70	N	-	-	64.1	Y	N	N
N5300	20	64.9	D2-2	-	0.0	0.0	66.0	58.0	56.3	0.0	0.0	67.1	67.1	70	N	-	-	64.1	Y	N	N
N5300	21	67.7	D2-2	-	0.0	0.0	66.0	58.0	56.3	0.0	0.0	67.1	67.1	70	N	-	-	64.1	Y	N	N
N5300	22	70.5	D2-2	-	0.0	0.0	66.1	57.9	56.3	0.0	0.0	67.1	67.1	70	N	-	-	64.1	Y	N	N
N5300	23	73.3	D2-2	-	0.0	0.0	66.0	57.8	56.3	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
N5300	24	76.1	D2-2	-	0.0	0.0	66.0	57.8	56.2	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
N5300	25	78.9	D2-2	-	0.0	0.0	66.0	57.7	56.2	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
N5301	1	11.7	D2-2	-	44.4	0.0	0.0	0.0	67.7	0.0	0.0	67.7	67.7	70	N	-	-	23.3	Y	N	N
N5301	2	14.5	D2-2	-	44.7	0.0	0.0	0.0	67.6	0.0	0.0	67.6	67.7	70	N	-	-	23.0	Y	N	N
N5301	3	17.3	D2-2	-	44.9	0.0	0.0	0.0	67.6	0.0	0.0	67.6	67.7	70	N	-	-	22.8	Y	N	N
N5301	4	20.1	D2-2	-	45.1	0.0	0.0	0.0	67.6	0.0	0.0	67.6	67.6	70	N	-	-	22.5	Y	N	N
N5301	5	22.9	D2-2	-	45.4	0.0	0.0	0.0	67.6	0.0	0.0	67.6	67.6	70	N	-	-	22.2	Y	N	N
N5301	6	25.7	D2-2	-	45.6	0.0	0.0	0.0	67.5	0.0	0.0	67.5	67.5	70	N	-	-	21.9	Y	N	N
N5301	7	28.5	D2-2	-	45.7	0.0	0.0	0.0	67.4	0.0	0.0	67.4	67.5	70	N	-	-	21.8	Y	N	N
N5301	8	31.3	D2-2	-	45.9	0.0	0.0	0.0	67.3	0.0	0.0	67.3	67.4	70	N	-	-	21.5	Y	N	N
N5301	9	34.1	D2-2	-	46.1	0.0	0.0	0.0	67.3	0.0	0.0	67.3	67.3	70	N	-	-	21.2	Y	N	N
N5301	10	36.9	D2-2	-	46.2	0.0	0.0	0.0	67.2	0.0	0.0	67.2	67.2	70	N	-	-	21.0	Y	N	N
N5301	11	39.7	D2-2	-	46.4	0.0	0.0	0.0	67.2	0.0	0.0	67.2	67.2	70	N	-	-	20.8	Y	N	N
N5301	12	42.5	D2-2	-	46.6	0.0	0.0	0.0	67.0	0.0	0.0	67.0	67.1	70	N	-	-	20.5	Y	N	N
N5301	13	45.3	D2-2	-	46.7	0.0	0.0	0.0	67.0	0.0	0.0	67.0	67.0	70	N	-	-	20.3	Y	N	N
N5301	14	48.1	D2-2	-	47.0	0.0	0.0	0.0	66.9	0.0	0.0	66.9	66.9	70	N	-	-	19.9	Y	N	N
N5301	15	50.9	D2-2	-	47.0	0.0	0.0	0.0	66.8	0.0	0.0	66.8	66.8	70	N	-	-	19.8	Y	N	N
N5301	16	53.7	D2-2	-	47.2	0.0	0.0	0.0	66.7	0.0	0.0	66.7	66.8	70	N	-	-	19.6	Y	N	N
N5301	17	56.5	D2-2	-	47.4	0.0	0.0	0.0	66.6	0.0	0.0	66.6	66.7	70	N	-	-	19.3	Y	N	N
N5301	18	59.3	D2-2	-	47.5	0.0	0.0	0.0	66.5	0.0	0.0	66.5	66.6	70	N	-	-	19.1	Y	N	N
N5301	19	62.1	D2-2	-	47.6	0.0	0.0	0.0	66.4	0.0	0.0	66.4	66.5	70	N	-	-	18.9	Y	N	N
N5301	20	64.9	D2-2	-	47.7	0.0	0.0	0.0	66.4	0.0	0.0	66.4	66.4	70	N	-	-	18.7	Y	N	N
N5301	21	67.7	D2-2	-	47.8	0.0	0.0	0.0	66.3	0.0	0.0	66.3	66.3	70	N	-	-	18.5	Y	N	N
N5301	22	70.5	D2-2	-	47.9	0.0	0.0	0.0	66.2	0.0	0.0	66.2	66.2	70	N	-	-	18.3	Y	N	N
N5301	23	73.3	D2-2	-	48.0	0.0	0.0	0.0	66.0	0.0	0.0	66.0	66.1	70	N	-	-	18.1	Y	N	N
N5301	24	76.1	D2-2	-	48.1	0.0	0.0	0.0	66.0	0.0	0.0	66.0	66.0	70	N	-	-	17.9	Y	N	N
N5301	25	78.9	D2-2	-	48.1	0.0	0.0	0.0	65.9	0.0	0.0	65.9	65.9	70	N	-	-	17.8	Y	N	N
N5302	1	11.7	D2-2	-	32.4	0.0	0.0	0.0	70.0	0.0	0.0	70.0	70.0	70	N	-	-	37.6	Y	N	N
N5302	2	14.5	D2-2	-	32.4	0.0	0.0	0.0	69.9	0.0	0.0	69.9	69.9	70	N	-	-	37.5	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT													
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N5302	3	17.3	D2-2	-	32.4	0.0	0.0	0.0	69.9	0.0	0.0	69.9	69.9	70	N	-	-	37.5	Y	N	N
N5302	4	20.1	D2-2	-	32.4	0.0	0.0	0.0	69.7	0.0	0.0	69.7	69.7	70	N	-	-	37.3	Y	N	N
N5302	5	22.9	D2-2	-	32.4	0.0	0.0	0.0	69.6	0.0	0.0	69.6	69.6	70	N	-	-	37.2	Y	N	N
N5302	6	25.7	D2-2	-	32.3	0.0	0.0	0.0	69.4	0.0	0.0	69.4	69.4	70	N	-	-	37.1	Y	N	N
N5302	7	28.5	D2-2	-	32.3	0.0	0.0	0.0	69.3	0.0	0.0	69.3	69.3	70	N	-	-	37.0	Y	N	N
N5302	8	31.3	D2-2	-	32.3	0.0	0.0	0.0	69.1	0.0	0.0	69.1	69.1	70	N	-	-	36.8	Y	N	N
N5302	9	34.1	D2-2	-	32.3	0.0	0.0	0.0	69.0	0.0	0.0	69.0	69.0	70	N	-	-	36.7	Y	N	N
N5302	10	36.9	D2-2	-	32.3	0.0	0.0	0.0	68.8	0.0	0.0	68.8	68.8	70	N	-	-	36.5	Y	N	N
N5302	11	39.7	D2-2	-	32.2	0.0	0.0	0.0	68.6	0.0	0.0	68.6	68.6	70	N	-	-	36.4	Y	N	N
N5302	12	42.5	D2-2	-	32.2	0.0	0.0	0.0	68.4	0.0	0.0	68.4	68.4	70	N	-	-	36.2	Y	N	N
N5302	13	45.3	D2-2	-	32.2	0.0	0.0	0.0	68.2	0.0	0.0	68.2	68.2	70	N	-	-	36.0	Y	N	N
N5302	14	48.1	D2-2	-	32.2	0.0	0.0	0.0	68.1	0.0	0.0	68.1	68.1	70	N	-	-	35.9	Y	N	N
N5302	15	50.9	D2-2	-	32.1	0.0	0.0	0.0	67.9	0.0	0.0	67.9	67.9	70	N	-	-	35.8	Y	N	N
N5302	16	53.7	D2-2	-	32.1	0.0	0.0	0.0	67.8	0.0	0.0	67.8	67.8	70	N	-	-	35.7	Y	N	N
N5302	17	56.5	D2-2	-	32.1	0.0	0.0	0.0	67.6	0.0	0.0	67.6	67.6	70	N	-	-	35.5	Y	N	N
N5302	18	59.3	D2-2	-	32.1	0.0	0.0	0.0	67.5	0.0	0.0	67.5	67.5	70	N	-	-	35.4	Y	N	N
N5302	19	62.1	D2-2	-	32.0	0.0	0.0	0.0	67.3	0.0	0.0	67.3	67.3	70	N	-	-	35.3	Y	N	N
N5302	20	64.9	D2-2	-	32.0	0.0	0.0	0.0	67.1	0.0	0.0	67.1	67.1	70	N	-	-	35.1	Y	N	N
N5302	21	67.7	D2-2	-	32.0	0.0	0.0	0.0	67.0	0.0	0.0	67.0	67.0	70	N	-	-	35.0	Y	N	N
N5302	22	70.5	D2-2	-	31.9	0.0	0.0	0.0	66.9	0.0	0.0	66.9	66.9	70	N	-	-	35.0	Y	N	N
N5302	23	73.3	D2-2	-	31.9	0.0	0.0	0.0	66.7	0.0	0.0	66.7	66.8	70	N	-	-	34.9	Y	N	N
N5302	24	76.1	D2-2	-	31.8	0.0	0.0	0.0	66.6	0.0	0.0	66.6	66.6	70	N	-	-	34.8	Y	N	N
N5302	25	78.9	D2-2	-	31.9	0.0	0.0	0.0	66.5	0.0	0.0	66.5	66.5	70	N	-	-	34.6	Y	N	N
N5303	1	11.7	D2-2	-	0.0	0.0	61.4	61.2	61.4	0.0	0.0	66.1	66.1	70	N	-	-	63.1	Y	N	N
N5303	2	14.5	D2-2	-	0.0	0.0	62.2	61.1	61.4	0.0	0.0	66.3	66.3	70	N	-	-	63.3	Y	N	N
N5303	3	17.3	D2-2	-	0.0	0.0	62.9	61.1	61.4	0.0	0.0	66.6	66.6	70	N	-	-	63.6	Y	N	N
N5303	4	20.1	D2-2	-	0.0	0.0	63.5	61.0	61.4	0.0	0.0	66.9	66.9	70	N	-	-	63.9	Y	N	N
N5303	5	22.9	D2-2	-	0.0	0.0	64.0	60.9	61.4	0.0	0.0	67.1	67.1	70	N	-	-	64.1	Y	N	N
N5303	6	25.7	D2-2	-	0.0	0.0	64.4	60.9	61.3	0.0	0.0	67.3	67.3	70	N	-	-	64.3	Y	N	N
N5303	7	28.5	D2-2	-	0.0	0.0	64.8	60.8	61.3	0.0	0.0	67.5	67.5	70	N	-	-	64.5	Y	N	N
N5303	8	31.3	D2-2	-	0.0	0.0	65.0	60.8	61.3	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
N5303	9	34.1	D2-2	-	0.0	0.0	65.2	60.7	61.3	0.0	0.0	67.7	67.7	70	N	-	-	64.7	Y	N	N
N5303	10	36.9	D2-2	-	0.0	0.0	65.4	60.6	61.2	0.0	0.0	67.7	67.7	70	N	-	-	64.7	Y	N	N
N5303	11	39.7	D2-2	-	0.0	0.0	65.5	60.6	61.2	0.0	0.0	67.8	67.8	70	N	-	-	64.8	Y	N	N
N5303	12	42.5	D2-2	-	0.0	0.0	65.6	60.5	61.2	0.0	0.0	67.8	67.8	70	N	-	-	64.8	Y	N	N
N5303	13	45.3	D2-2	-	0.0	0.0	65.6	60.5	61.1	0.0	0.0	67.8	67.8	70	N	-	-	64.8	Y	N	N
N5303	14	48.1	D2-2	-	0.0	0.0	65.8	60.4	61.1	0.0	0.0	67.9	67.9	70	N	-	-	64.9	Y	N	N
N5303	15	50.9	D2-2	-	0.0	0.0	65.7	60.4	61.1	0.0	0.0	67.9	67.9	70	N	-	-	64.9	Y	N	N
N5303	16	53.7	D2-2	-	0.0	0.0	65.8	60.3	61.0	0.0	0.0	67.9	67.9	70	N	-	-	64.9	Y	N	N
N5303	17	56.5	D2-2	-	0.0	0.0	65.8	60.3	61.0	0.0	0.0	67.9	67.9	70	N	-	-	64.9	Y	N	N
N5303	18	59.3	D2-2	-	0.0	0.0	65.8	60.2	61.0	0.0	0.0	67.8	67.8	70	N	-	-	64.8	Y	N	N
N5303	19	62.1	D2-2	-	0.0	0.0	65.8	60.2	60.9	0.0	0.0	67.8	67.8	70	N	-	-	64.8	Y	N	N
N5303	20	64.9	D2-2	-	0.0	0.0	65.8	60.1	60.9	0.0	0.0	67.8	67.8	70	N	-	-	64.8	Y	N	N
N5303	21	67.7	D2-2	-	0.0	0.0	65.7	60.1	60.8	0.0	0.0	67.8	67.8	70	N	-	-	64.8	Y	N	N
N5303	22	70.5	D2-2	-	0.0	0.0	65.7	60.0	60.8	0.0	0.0	67.7	67.7	70	N	-	-	64.7	Y	N	N
N5303	23	73.3	D2-2	-	0.0	0.0	65.7	60.0	60.7	0.0	0.0	67.7	67.7	70	N	-	-	64.7	Y	N	N
N5303	24	76.1	D2-2	-	0.0	0.0	65.7	59.9	60.7	0.0	0.0	67.7	67.7	70	N	-	-	64.7	Y	N	N
N5303	25	78.9	D2-2	-	0.0	0.0	65.6	59.9	60.7	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
N5304	1	11.7	D2-2	-	56.2	0.0	0.0	0.0	71.3	0.0	0.0	71.3	71.4	70	Y	-	-	15.2	Y	Y	Y
N5304	2	14.5	D2-2	-	56.2	0.0	0.0	0.0	71.2	0.0	0.0	71.2	71.3	70	Y	-	-	15.1	Y	Y	Y
N5304	3	17.3	D2-2	-	56.2	0.0	0.0	0.0	71.1	0.0	0.0	71.1	71.2	70	Y	-	-	15.0	Y	Y	Y
N5304	4	20.1	D2-2	-	56.2	0.0	0.0	0.0	70.9	0.0	0.0	70.9	71.1	70	Y	-	-	14.9	Y	Y	Y
N5304	5	22.9	D2-2	-	56.1	0.0	0.0	0.0	70.8	0.0	0.0	70.8	70.9	70	Y	-	-	14.8	Y	Y	Y
N5304	6	25.7	D2-2	-	56.0	0.0	0.0	0.0	70.6	0.0	0.0	70.6	70.8	70	Y	-	-	14.8	Y	Y	Y
N5304	7	28.5	D2-2	-	55.9	0.0	0.0	0.0	70.4	0.0	0.0	70.4	70.6	70	Y	-	-	14.7	Y	N	Y
N5304	8	31.3	D2-2	-	55.9	0.0	0.0	0.0	70.3	0.0	0.0	70.3	70.4	70	N	-	-	14.5	Y	N	N
N5304	9	34.1	D2-2	-	55.8	0.0	0.0	0.0	70.1	0.0	0.0	70.1	70.2	70	N	-	-	14.4	Y	N	N
N5304	10	36.9	D2-2	-	55.7	0.0	0.0	0.0	69.9	0.0	0.0	69.9	70.0	70	N	-	-	14.3	Y	N	N
N5304	11	39.7	D2-2	-	55.7	0.0	0.0	0.0	69.7	0.0	0.0	69.7	69.9	70	N	-	-	14.2	Y	N	N
N5304	12	42.5	D2-2	-	55.5	0.0	0.0	0.0	69.5	0.0	0.0	69.5	69.7	70	N	-	-	14.2	Y	N	N
N5304	13	45.3	D2-2	-	55.4	0.0	0.0	0.0	69.3	0.0	0.0	69.3	69.5	70	N	-	-	14.1	Y	N	N
N5304	14	48.1	D2-2	-	55.4	0.0	0.0	0.0	69.1	0.0	0.0	69.1	69.3	70	N	-	-	13.9	Y	N	N
N5304	15	50.9	D2-2	-	55.3	0.0	0.0	0.0	69.0	0.0	0.0	69.0	69.1	70	N	-	-	13.8	Y	N	N
N5304	16	53.7	D2-2	-	55.2	0.0	0.0	0.0	68.8	0.0	0.0	68.8	69.0	70	N	-	-	13.8	Y	N	N
N5304	17	56.5	D2-2	-	55.1	0.0	0.0	0.0	68.7	0.0	0.0	68.7	68.9	70	N	-	-	13.8	Y	N	N
N5304	18	59.3	D2-2	-	55.0	0.0	0.0	0.0	68.5	0.0	0.0	68.5	68.7	70	N	-	-	13.7	Y	N	N
N5304	19	62.1	D2-2	-	55.0	0.0	0.0	0.0	68.3	0.0	0.0	68.3	68.5	70	N	-	-	13.5	Y	N	N
N5304	20	64.9	D2-2	-	54.9	0.0	0.0	0.0	68.2	0.0	0.0	68.2	68.4	70	N	-	-	13.5	Y	N	N
N5304	21	67.7	D2-2	-	54.8	0.0	0.0	0.0	68.0	0.0	0.0	68.0	68.2	70	N	-	-	13.4	Y	N	N
N5304	22	70.5	D2-2	-	54.7	0.0	0.0	0.0	67.9	0.0	0.0	67.9	68.1	70	N	-	-	13.4	Y	N	N
N5304	23	73.3	D2-2	-	54.6	0.0	0.0	0.0	67.8	0.0	0.0	67.8	68.0	70	N	-	-	13.4	Y	N	N
N5304	24	76.1	D2-2	-	54.6	0.0	0.0	0.0	67.6	0.0	0.0	67.6	67.8	70	N	-	-	13.2	Y	N	N
N5304	25	78.9	D2-2	-	54.5	0.0	0.0	0.0	67.5	0.0	0.0	67.5	67.7	70	N	-	-	13.2	Y	N	N
N5305	1	11.7	D2-2	-	61.8	0.0	0.0	55.3	73.5	0.0	0.0	73.5	73.8	70	Y	-	-	12.0	Y	Y	Y
N5305	2	14.5	D2-2	-	61.8	0.0	0.0	55.3	73.3	0.0	0.0	73.4	73.7	70	Y	-	-	11.9	Y	Y	Y
N5305	3	17.3	D2-2	-	61.8	0.0	0.0	55.3	73.2	0.0	0.0	73.3	73.6	70	Y	-	-	11.8	Y	Y	Y
N5305	4	20.1	D2-2	-	61.8	0.0	0.0	55.3	73.0	0.0	0.0	73.1	73.4	70	Y	-	-	11.6	Y	Y	Y
N5305	5	22.9	D2-2	-	61.8	0.0	0.0	55.3	72.8	0.0	0.0	72.9	73.2	70	Y	-	-	11.4	Y	Y	Y
N5305	6	25.7	D2-2	-	61.7	0.0	0.0	55.3	72.6	0.0	0.0	72.7	73.0	70	Y	-	-	11.3	Y	Y	Y
N5305	7	28.5	D2-2	-	61.6	0.0	0.0	55.2	72.4	0.0	0.0	72.5	72.8	70	Y	-	-	11.2	Y	Y	Y
N5305	8	31.3	D2-2	-	61.6	0.0	0.0	55.2	72.2	0.0	0.0	72.3	72.6	70	Y	-	-	11.0	Y	Y	Y
N5305	9	34.1	D2-2	-	61.5	0.0	0.0	55.2	71.9	0.0	0.0	72.0	72.4	70	Y	-	-	10.9	Y	Y	Y
N5305	10	36.9	D2-2	-	61.5	0.0	0.0	55.1	71.7	0.0	0.0	71.8	72.2	70	Y	-	-	10.7	Y	Y	Y
N5305	11	39.7	D2-2	-	61.4	0.0	0.0	55.1	71.5	0.0	0.0	71.6	72.0	70	Y	-	-	10.6	Y	Y	Y
N5305	12	42.5	D2-2	-	61.4	0.0	0.0	55.1	71.3	0.0	0.0	71.4	71.8	70	Y	-	-	10.4	Y	Y	Y
N5305	13	45.3	D2-2	-	61.3	0.0	0.0	55.3	71.1	0.0	0.0	71.2	71.6	70	Y	-	-	10.3	Y	Y	Y

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N5305	14	48.1	D2-2	-	61.2	0.0	0.0	55.3	70.9	0.0	0.0	71.0	71.5	70	Y	-	-	10.3	Y	Y	Y
N5305	15	50.9	D2-2	-	61.2	0.0	0.0	55.2	70.7	0.0	0.0	70.8	71.3	70	Y	-	-	10.1	Y	Y	Y
N5305	16	53.7	D2-2	-	61.2	0.0	0.0	55.2	70.5	0.0	0.0	70.7	71.1	70	Y	-	-	9.9	Y	Y	Y
N5305	17	56.5	D2-2	-	61.1	0.0	0.0	55.2	70.4	0.0	0.0	70.5	71.0	70	Y	-	-	9.9	Y	Y	Y
N5305	18	59.3	D2-2	-	61.0	0.0	0.0	55.1	70.2	0.0	0.0	70.4	70.8	70	Y	-	-	9.8	Y	N	Y
N5305	19	62.1	D2-2	-	61.0	0.0	0.0	55.0	70.1	0.0	0.0	70.2	70.7	70	Y	-	-	9.7	Y	N	Y
N5305	20	64.9	D2-2	-	60.9	0.0	0.0	55.0	69.9	0.0	0.0	70.0	70.5	70	Y	-	-	9.6	Y	N	Y
N5305	21	67.7	D2-2	-	60.9	0.0	0.0	55.0	69.8	0.0	0.0	69.9	70.4	70	N	-	-	9.5	Y	N	N
N5305	22	70.5	D2-2	-	60.8	0.0	0.0	54.9	69.6	0.0	0.0	69.7	70.2	70	N	-	-	9.4	Y	N	N
N5305	23	73.3	D2-2	-	60.8	0.0	0.0	54.9	69.5	0.0	0.0	69.6	70.1	70	N	-	-	9.3	Y	N	N
N5305	24	76.1	D2-2	-	60.7	0.0	0.0	54.8	69.3	0.0	0.0	69.5	70.0	70	N	-	-	9.3	Y	N	N
N5305	25	78.9	D2-2	-	60.6	0.0	0.0	54.8	69.2	0.0	0.0	69.3	69.9	70	N	-	-	9.3	Y	N	N
N5306	1	11.7	D2-2	-	60.1	0.0	0.0	62.8	71.7	0.0	0.0	72.3	72.5	70	Y	-	-	12.4	Y	Y	Y
N5306	2	14.5	D2-2	-	60.1	0.0	0.0	62.7	71.7	0.0	0.0	72.2	72.5	70	Y	-	-	12.4	Y	Y	Y
N5306	3	17.3	D2-2	-	60.1	0.0	0.0	62.6	71.6	0.0	0.0	72.1	72.4	70	Y	-	-	12.3	Y	Y	Y
N5306	4	20.1	D2-2	-	60.1	0.0	0.0	62.6	71.4	0.0	0.0	72.0	72.2	70	Y	-	-	12.1	Y	Y	Y
N5306	5	22.9	D2-2	-	60.0	0.0	0.0	62.5	71.3	0.0	0.0	71.9	72.1	70	Y	-	-	12.1	Y	Y	Y
N5306	6	25.7	D2-2	-	60.0	0.0	0.0	62.4	71.2	0.0	0.0	71.7	72.0	70	Y	-	-	12.0	Y	Y	Y
N5306	7	28.5	D2-2	-	60.0	0.0	0.0	62.3	71.0	0.0	0.0	71.6	71.9	70	Y	-	-	11.9	Y	Y	Y
N5306	8	31.3	D2-2	-	59.9	0.0	0.0	62.3	70.9	0.0	0.0	71.4	71.7	70	Y	-	-	11.8	Y	Y	Y
N5306	9	34.1	D2-2	-	59.9	0.0	0.0	62.2	70.7	0.0	0.0	71.3	71.6	70	Y	-	-	11.7	Y	Y	Y
N5306	10	36.9	D2-2	-	59.9	0.0	0.0	62.1	70.5	0.0	0.0	71.1	71.4	70	Y	-	-	11.5	Y	Y	Y
N5306	11	39.7	D2-2	-	59.8	0.0	0.0	62.0	70.4	0.0	0.0	71.0	71.3	70	Y	-	-	11.5	Y	Y	Y
N5306	12	42.5	D2-2	-	59.8	0.0	0.0	62.0	70.2	0.0	0.0	70.8	71.1	70	Y	-	-	11.3	Y	Y	Y
N5306	13	45.3	D2-2	-	59.7	0.0	0.0	61.9	70.0	0.0	0.0	70.6	71.0	70	Y	-	-	11.3	Y	Y	Y
N5306	14	48.1	D2-2	-	59.7	0.0	0.0	61.8	69.9	0.0	0.0	70.5	70.8	70	Y	-	-	11.1	Y	Y	Y
N5306	15	50.9	D2-2	-	59.6	0.0	0.0	61.7	69.7	0.0	0.0	70.3	70.7	70	Y	-	-	11.1	Y	N	Y
N5306	16	53.7	D2-2	-	59.6	0.0	0.0	61.6	69.6	0.0	0.0	70.2	70.6	70	Y	-	-	11.0	Y	N	Y
N5306	17	56.5	D2-2	-	59.6	0.0	0.0	61.5	69.4	0.0	0.0	70.1	70.4	70	N	-	-	10.8	Y	N	N
N5306	18	59.3	D2-2	-	59.6	0.0	0.0	61.5	69.3	0.0	0.0	70.0	70.3	70	N	-	-	10.7	Y	N	N
N5306	19	62.1	D2-2	-	59.5	0.0	0.0	61.4	69.1	0.0	0.0	69.8	70.2	70	N	-	-	10.7	Y	N	N
N5306	20	64.9	D2-2	-	59.5	0.0	0.0	61.3	69.0	0.0	0.0	69.7	70.1	70	N	-	-	10.6	Y	N	N
N5306	21	67.7	D2-2	-	59.5	0.0	0.0	61.3	68.9	0.0	0.0	69.6	70.0	70	N	-	-	10.5	Y	N	N
N5306	22	70.5	D2-2	-	59.4	0.0	0.0	61.2	68.7	0.0	0.0	69.4	69.8	70	N	-	-	10.4	Y	N	N
N5306	23	73.3	D2-2	-	59.4	0.0	0.0	61.1	68.6	0.0	0.0	69.3	69.7	70	N	-	-	10.3	Y	N	N
N5306	24	76.1	D2-2	-	59.3	0.0	0.0	61.0	68.4	0.0	0.0	69.2	69.6	70	N	-	-	10.3	Y	N	N
N5306	25	78.9	D2-2	-	59.3	0.0	0.0	61.0	68.4	0.0	0.0	69.1	69.5	70	N	-	-	10.2	Y	N	N
N5307	1	11.7	D2-2	-	21.8	0.0	61.3	65.0	69.4	0.0	0.0	71.2	71.2	70	Y	-	-	49.4	Y	Y	Y
N5307	2	14.5	D2-2	-	22.6	0.0	62.0	65.0	69.4	0.0	0.0	71.3	71.3	70	Y	-	-	48.7	Y	Y	Y
N5307	3	17.3	D2-2	-	23.5	0.0	62.7	64.9	69.3	0.0	0.0	71.3	71.3	70	Y	-	-	47.8	Y	Y	Y
N5307	4	20.1	D2-2	-	24.5	0.0	63.3	64.9	69.2	0.0	0.0	71.3	71.3	70	Y	-	-	46.8	Y	Y	Y
N5307	5	22.9	D2-2	-	25.5	0.0	63.7	64.8	69.1	0.0	0.0	71.3	71.3	70	Y	-	-	45.8	Y	Y	Y
N5307	6	25.7	D2-2	-	26.5	0.0	64.0	64.7	69.0	0.0	0.0	71.3	71.3	70	Y	-	-	44.8	Y	Y	Y
N5307	7	28.5	D2-2	-	27.5	0.0	64.2	64.7	68.8	0.0	0.0	71.2	71.2	70	Y	-	-	43.7	Y	Y	Y
N5307	8	31.3	D2-2	-	28.6	0.0	64.4	64.6	68.7	0.0	0.0	71.2	71.2	70	Y	-	-	42.6	Y	Y	Y
N5307	9	34.1	D2-2	-	29.6	0.0	64.5	64.5	68.5	0.0	0.0	71.1	71.1	70	Y	-	-	41.5	Y	Y	Y
N5307	10	36.9	D2-2	-	30.7	0.0	64.6	64.5	68.4	0.0	0.0	71.0	71.0	70	Y	-	-	40.3	Y	Y	Y
N5307	11	39.7	D2-2	-	31.9	0.0	64.7	64.4	68.2	0.0	0.0	70.9	70.9	70	Y	-	-	39.0	Y	Y	Y
N5307	12	42.5	D2-2	-	33.1	0.0	64.7	64.3	68.0	0.0	0.0	70.8	70.8	70	Y	-	-	37.7	Y	Y	Y
N5307	13	45.3	D2-2	-	34.5	0.0	64.7	64.2	67.9	0.0	0.0	70.7	70.7	70	Y	-	-	36.2	Y	Y	Y
N5307	14	48.1	D2-2	-	36.0	0.0	64.7	64.1	67.7	0.0	0.0	70.6	70.6	70	Y	-	-	34.6	Y	Y	Y
N5307	15	50.9	D2-2	-	37.8	0.0	64.7	64.0	67.5	0.0	0.0	70.5	70.5	70	Y	-	-	32.7	Y	Y	Y
N5307	16	53.7	D2-2	-	39.8	0.0	64.7	63.9	67.4	0.0	0.0	70.4	70.4	70	N	-	-	30.6	Y	N	N
N5307	17	56.5	D2-2	-	41.8	0.0	64.7	63.9	67.3	0.0	0.0	70.3	70.3	70	N	-	-	28.5	Y	N	N
N5307	18	59.3	D2-2	-	42.9	0.0	64.6	63.8	67.2	0.0	0.0	70.2	70.2	70	N	-	-	27.3	Y	N	N
N5307	19	62.1	D2-2	-	43.7	0.0	64.6	63.7	67.0	0.0	0.0	70.1	70.1	70	N	-	-	26.4	Y	N	N
N5307	20	64.9	D2-2	-	44.3	0.0	64.6	63.6	66.9	0.0	0.0	70.0	70.0	70	N	-	-	25.7	Y	N	N
N5307	21	67.7	D2-2	-	44.6	0.0	64.5	63.5	66.7	0.0	0.0	69.9	69.9	70	N	-	-	25.3	Y	N	N
N5307	22	70.5	D2-2	-	44.8	0.0	64.5	63.5	66.6	0.0	0.0	69.8	69.8	70	N	-	-	25.0	Y	N	N
N5307	23	73.3	D2-2	-	45.0	0.0	64.4	63.4	66.5	0.0	0.0	69.7	69.7	70	N	-	-	24.7	Y	N	N
N5307	24	76.1	D2-2	-	45.1	0.0	64.4	63.3	66.4	0.0	0.0	69.6	69.7	70	N	-	-	24.6	Y	N	N
N5307	25	78.9	D2-2	-	45.2	0.0	64.4	63.2	66.2	0.0	0.0	69.5	69.6	70	N	-	-	24.4	Y	N	N
N5361a	1	15.3	D2-9	-	0.0	0.0	63.8	8.0	45.7	0.0	0.0	63.9	63.9	70	N	-	-	60.9	Y	N	N
N5361a	2	18.1	D2-9	-	0.0	0.0	65.8	8.0	45.6	0.0	0.0	65.9	65.9	70	N	-	-	62.9	Y	N	N
N5361a	3	20.9	D2-9	-	0.0	0.0	67.6	8.0	45.6	0.0	0.0	67.7	67.7	70	N	-	-	64.7	Y	N	N
N5361a	4	23.7	D2-9	-	0.0	0.0	69.1	8.0	45.6	0.0	0.0	69.1	69.1	70	N	-	-	66.1	Y	N	N
N5361a	5	26.5	D2-9	-	0.0	0.0	70.0	8.0	45.6	0.0	0.0	70.0	70.0	70	N	-	-	67.0	Y	N	N
N5361a	6	29.3	D2-9	-	0.0	0.0	70.5	8.0	45.6	0.0	0.0	70.6	70.6	70	Y	-	-	67.6	Y	Y	Y
N5361a	7	32.1	D2-9	-	0.0	0.0	70.8	8.0	45.6	0.0	0.0	70.8	70.8	70	Y	-	-	67.8	Y	Y	Y
N5361a	8	34.9	D2-9	-	0.0	0.0	70.9	7.7	45.6	0.0	0.0	70.9	70.9	70	Y	-	-	67.9	Y	Y	Y
N5361a	9	37.7	D2-9	-	0.0	0.0	71.0	8.0	45.5	0.0	0.0	71.0	71.0	70	Y	-	-	68.0	Y	Y	Y
N5361a	10	40.5	D2-9	-	0.0	0.0	71.0	8.1	45.5	0.0	0.0	71.0	71.0	70	Y	-	-	68.0	Y	Y	Y
N5361a	11	43.3	D2-9	-	0.0	0.0	71.0	8.1	45.5	0.0	0.0	71.0	71.0	70	Y	-	-	68.0	Y	Y	Y
N5361a	12	46.1	D2-9	-	0.0	0.0	70.9	8.1	45.5	0.0	0.0	70.9	70.9	70	Y	-	-	67.9	Y	Y	Y
N5361a	13	48.9	D2-9	-	0.0	0.0	70.9	8.0	45.4	0.0	0.0	70.9	70.9	70	Y	-	-	67.9	Y	Y	Y
N5361a	14	51.7	D2-9	-	0.0	0.0	70.8	8.8	45.4	0.0	0.0	70.8	70.8	70	Y	-	-	67.8	Y	Y	Y
N5361a	15	54.5	D2-9	-	0.0	0.0	70.7	9.7	45.4	0.0	0.0	70.7	70.7	70	Y	-	-	67.7	Y	Y	Y
N5361a	16	57.3	D2-9	-	0.0	0.0	70.6	10.5	45.3	0.0	0.0	70.6	70.6	70	Y	-	-	67.6	Y	Y	Y
N5361a	17	60.1	D2-9	-	0.0	0.0	70.5	11.4	45.3	0.0	0.0	70.6	70.6	70	Y	-	-	67.6	Y	Y	Y
N5361a	18	62.9	D2-9	-	0.0	0.0	70.4	12.4	45.2	0.0	0.0	70.4	70.4	70	N	-	-	67.4	Y	N	N
N5361a	19	65.7	D2-9	-	0.0	0.0	70.3	13.3	45.2	0.0	0.0	70.3	70.3	70	N	-	-	67.3	Y	N	N
N5361a	20	68.5	D2-9	-	0.0	0.0	70.2	14.4	45.2	0.0	0.0	70.2	70.2	70	N	-	-	67.2	Y	N	N
N5361a	21	71.3	D2-9	-	0.0	0.0	70.1	15.4	45.1	0.0	0.0	70.1	70.1	70	N	-	-	67.1	Y	N	N
N5361a	22	74.1	D2-9	-	0.0	0.0	70.0	16.4	45.1	0.0	0.0	70.0	70.0	70	N	-	-	67.0	Y	N	N
N5361a	23	76.9	D2-9	-	0.0	0.0	69.9	17.3	45.0	0.0	0.0	69.9	69.9	70	N	-	-	66.9	Y	N	N
N5361a	24	79.7	D2-9	-	0.0	0.0	69.8	18.2	45.0	0.0	0.0	69.9	69.9	70	N	-	-	66.9	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	New Roads[2]					New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
N5361a	25	82.5	D2-9	-	0.0	0.0	69.7	19.2	45.0	0.0	0.0	69.7	69.7	70	N	-	-	66.7	Y	N	N
N5361a	26	85.3	D2-9	-	0.0	0.0	69.6	20.1	44.9	0.0	0.0	69.7	69.7	70	N	-	-	66.7	Y	N	N
N5361a	27	88.1	D2-9	-	0.0	0.0	69.6	21.1	44.9	0.0	0.0	69.6	69.6	70	N	-	-	66.6	Y	N	N
N5361a	28	90.9	D2-9	-	0.0	0.0	69.4	22.1	44.8	0.0	0.0	69.5	69.5	70	N	-	-	66.5	Y	N	N
N5361a	29	93.7	D2-9	-	0.0	0.0	69.4	23.2	44.8	0.0	0.0	69.4	69.4	70	N	-	-	66.4	Y	N	N
N5361a	30	96.5	D2-9	-	0.0	0.0	69.3	24.4	44.7	0.0	0.0	69.3	69.3	70	N	-	-	66.3	Y	N	N
N5361a	31	99.3	D2-9	-	0.0	0.0	69.2	25.8	44.7	0.0	0.0	69.2	69.2	70	N	-	-	66.2	Y	N	N
N5361a	32	102.1	D2-9	-	0.0	0.0	69.1	27.3	44.7	0.0	0.0	69.1	69.1	70	N	-	-	66.1	Y	N	N
N5361a	33	104.9	D2-9	-	0.0	0.0	69.0	29.1	44.6	0.0	0.0	69.0	69.0	70	N	-	-	66.0	Y	N	N
N5361a	34	107.7	D2-9	-	0.0	0.0	68.9	30.9	44.6	0.0	0.0	68.9	68.9	70	N	-	-	65.9	Y	N	N
N5361a	35	110.5	D2-9	-	0.0	0.0	68.8	32.9	44.5	0.0	0.0	68.9	68.9	70	N	-	-	65.9	Y	N	N
N5361a	36	113.3	D2-9	-	0.0	0.0	68.8	34.2	44.5	0.0	0.0	68.8	68.8	70	N	-	-	65.8	Y	N	N
N5361b	1	15.3	D2-9	-	0.0	0.0	62.4	8.0	45.4	0.0	0.0	62.5	62.5	70	N	-	-	59.5	Y	N	N
N5361b	2	18.1	D2-9	-	0.0	0.0	64.4	8.0	45.4	0.0	0.0	64.4	64.4	70	N	-	-	61.4	Y	N	N
N5361b	3	20.9	D2-9	-	0.0	0.0	66.0	8.0	45.4	0.0	0.0	66.1	66.1	70	N	-	-	63.1	Y	N	N
N5361b	4	23.7	D2-9	-	0.0	0.0	67.5	8.0	45.3	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
N5361b	5	26.5	D2-9	-	0.0	0.0	68.5	8.0	45.3	0.0	0.0	68.5	68.5	70	N	-	-	65.5	Y	N	N
N5361b	6	29.3	D2-9	-	0.0	0.0	69.0	8.0	45.3	0.0	0.0	69.0	69.0	70	N	-	-	66.0	Y	N	N
N5361b	7	32.1	D2-9	-	0.0	0.0	69.3	8.0	45.3	0.0	0.0	69.3	69.3	70	N	-	-	66.3	Y	N	N
N5361b	8	34.9	D2-9	-	0.0	0.0	69.4	7.7	45.3	0.0	0.0	69.5	69.5	70	N	-	-	66.5	Y	N	N
N5361b	9	37.7	D2-9	-	0.0	0.0	69.5	8.0	45.3	0.0	0.0	69.5	69.5	70	N	-	-	66.5	Y	N	N
N5361b	10	40.5	D2-9	-	0.0	0.0	69.5	8.1	45.2	0.0	0.0	69.5	69.5	70	N	-	-	66.5	Y	N	N
N5361b	11	43.3	D2-9	-	0.0	0.0	69.5	8.1	45.2	0.0	0.0	69.5	69.5	70	N	-	-	66.5	Y	N	N
N5361b	12	46.1	D2-9	-	0.0	0.0	69.5	8.1	45.2	0.0	0.0	69.5	69.5	70	N	-	-	66.5	Y	N	N
N5361b	13	48.9	D2-9	-	0.0	0.0	69.5	8.0	45.2	0.0	0.0	69.5	69.5	70	N	-	-	66.5	Y	N	N
N5361b	14	51.7	D2-9	-	0.0	0.0	69.4	8.8	45.1	0.0	0.0	69.4	69.4	70	N	-	-	66.4	Y	N	N
N5361b	15	54.5	D2-9	-	0.0	0.0	69.3	9.6	45.1	0.0	0.0	69.4	69.4	70	N	-	-	66.4	Y	N	N
N5361b	16	57.3	D2-9	-	0.0	0.0	69.2	10.5	45.1	0.0	0.0	69.3	69.3	70	N	-	-	66.3	Y	N	N
N5361b	17	60.1	D2-9	-	0.0	0.0	69.2	11.4	45.0	0.0	0.0	69.2	69.2	70	N	-	-	66.2	Y	N	N
N5361b	18	62.9	D2-9	-	0.0	0.0	69.1	12.4	45.0	0.0	0.0	69.1	69.1	70	N	-	-	66.1	Y	N	N
N5361b	19	65.7	D2-9	-	0.0	0.0	69.0	13.3	45.0	0.0	0.0	69.0	69.0	70	N	-	-	66.0	Y	N	N
N5361b	20	68.5	D2-9	-	0.0	0.0	68.9	14.4	44.9	0.0	0.0	68.9	68.9	70	N	-	-	65.9	Y	N	N
N5361b	21	71.3	D2-9	-	0.0	0.0	68.8	15.4	44.9	0.0	0.0	68.8	68.8	70	N	-	-	65.8	Y	N	N
N5361b	22	74.1	D2-9	-	0.0	0.0	68.7	16.3	44.9	0.0	0.0	68.7	68.7	70	N	-	-	65.7	Y	N	N
N5361b	23	76.9	D2-9	-	0.0	0.0	68.6	17.2	44.8	0.0	0.0	68.6	68.6	70	N	-	-	65.6	Y	N	N
N5361b	24	79.7	D2-9	-	0.0	0.0	68.5	18.1	44.8	0.0	0.0	68.6	68.6	70	N	-	-	65.6	Y	N	N
N5361b	25	82.5	D2-9	-	0.0	0.0	68.4	19.1	44.7	0.0	0.0	68.5	68.5	70	N	-	-	65.5	Y	N	N
N5361b	26	85.3	D2-9	-	0.0	0.0	68.4	20.0	44.7	0.0	0.0	68.4	68.4	70	N	-	-	65.4	Y	N	N
N5361b	27	88.1	D2-9	-	0.0	0.0	68.3	21.0	44.7	0.0	0.0	68.3	68.3	70	N	-	-	65.3	Y	N	N
N5361b	28	90.9	D2-9	-	0.0	0.0	68.2	21.9	44.6	0.0	0.0	68.2	68.2	70	N	-	-	65.2	Y	N	N
N5361b	29	93.7	D2-9	-	0.0	0.0	68.1	23.1	44.6	0.0	0.0	68.1	68.1	70	N	-	-	65.1	Y	N	N
N5361b	30	96.5	D2-9	-	0.0	0.0	68.0	24.3	44.5	0.0	0.0	68.0	68.0	70	N	-	-	65.0	Y	N	N
N5361b	31	99.3	D2-9	-	0.0	0.0	67.9	25.6	44.5	0.0	0.0	67.9	67.9	70	N	-	-	64.9	Y	N	N
N5361b	32	102.1	D2-9	-	0.0	0.0	67.8	27.0	44.5	0.0	0.0	67.9	67.9	70	N	-	-	64.9	Y	N	N
N5361b	33	104.9	D2-9	-	0.0	0.0	67.8	28.8	44.4	0.0	0.0	67.8	67.8	70	N	-	-	64.8	Y	N	N
N5361b	34	107.7	D2-9	-	0.0	0.0	67.7	30.5	44.4	0.0	0.0	67.7	67.7	70	N	-	-	64.7	Y	N	N
N5361b	35	110.5	D2-9	-	0.0	0.0	67.6	32.6	44.3	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
N5361b	36	113.3	D2-9	-	0.0	0.0	67.5	34.1	44.3	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
N5361c	1	15.3	D2-9	-	14.7	0.0	63.9	0.0	39.3	0.0	0.0	63.9	63.9	70	N	-	-	49.1	Y	N	N
N5361c	2	18.1	D2-9	-	14.7	0.0	66.0	0.0	39.3	0.0	0.0	66.0	66.0	70	N	-	-	51.2	Y	N	N
N5361c	3	20.9	D2-9	-	14.7	0.0	67.9	0.0	39.3	0.0	0.0	67.9	67.9	70	N	-	-	53.1	Y	N	N
N5361c	4	23.7	D2-9	-	14.7	0.0	69.3	0.0	39.3	0.0	0.0	69.3	69.3	70	N	-	-	54.5	Y	N	N
N5361c	5	26.5	D2-9	-	14.7	0.0	70.1	0.0	39.3	0.0	0.0	70.1	70.1	70	N	-	-	55.3	Y	N	N
N5361c	6	29.3	D2-9	-	14.7	0.0	70.5	0.0	39.3	0.0	0.0	70.5	70.5	70	Y	-	-	55.7	Y	Y	Y
N5361c	7	32.1	D2-9	-	14.7	0.0	70.7	0.0	39.2	0.0	0.0	70.7	70.7	70	Y	-	-	55.9	Y	Y	Y
N5361c	8	34.9	D2-9	-	14.7	0.0	70.7	0.0	39.2	0.0	0.0	70.7	70.7	70	Y	-	-	55.9	Y	Y	Y
N5361c	9	37.7	D2-9	-	14.7	0.0	70.8	0.0	39.2	0.0	0.0	70.8	70.8	70	Y	-	-	56.0	Y	Y	Y
N5361c	10	40.5	D2-9	-	14.7	0.0	70.8	0.0	39.2	0.0	0.0	70.8	70.8	70	Y	-	-	56.0	Y	Y	Y
N5361c	11	43.3	D2-9	-	14.7	0.0	70.7	0.0	39.1	0.0	0.0	70.7	70.7	70	Y	-	-	55.9	Y	Y	Y
N5361c	12	46.1	D2-9	-	14.7	0.0	70.7	0.0	39.1	0.0	0.0	70.7	70.7	70	Y	-	-	55.9	Y	Y	Y
N5361c	13	48.9	D2-9	-	14.7	0.0	70.7	0.0	39.0	0.0	0.0	70.7	70.7	70	Y	-	-	55.9	Y	Y	Y
N5361c	14	51.7	D2-9	-	14.7	0.0	70.6	0.0	39.0	0.0	0.0	70.6	70.6	70	Y	-	-	55.8	Y	Y	Y
N5361c	15	54.5	D2-9	-	14.7	0.0	70.5	0.0	38.9	0.0	0.0	70.5	70.5	70	Y	-	-	55.7	Y	Y	Y
N5361c	16	57.3	D2-9	-	14.6	0.0	70.4	0.0	38.9	0.0	0.0	70.4	70.4	70	N	-	-	55.7	Y	N	N
N5361c	17	60.1	D2-9	-	14.7	0.0	70.4	0.0	38.8	0.0	0.0	70.4	70.4	70	N	-	-	55.6	Y	N	N
N5361c	18	62.9	D2-9	-	14.6	0.0	70.2	0.0	38.8	0.0	0.0	70.3	70.3	70	N	-	-	55.6	Y	N	N
N5361c	19	65.7	D2-9	-	14.6	0.0	70.2	0.0	38.7	0.0	0.0	70.2	70.2	70	N	-	-	55.5	Y	N	N
N5361c	20	68.5	D2-9	-	14.6	0.0	70.0	0.0	38.7	0.0	0.0	70.0	70.0	70	N	-	-	55.3	Y	N	N
N5361c	21	71.3	D2-9	-	14.6	0.0	69.9	0.0	38.7	0.0	0.0	69.9	69.9	70	N	-	-	55.2	Y	N	N
N5361c	22	74.1	D2-9	-	14.5	0.0	69.8	0.0	38.6	0.0	0.0	69.8	69.8	70	N	-	-	55.1	Y	N	N
N5361c	23	76.9	D2-9	-	14.6	0.0	69.7	0.0	38.6	0.0	0.0	69.7	69.7	70	N	-	-	55.0	Y	N	N
N5361c	24	79.7	D2-9	-	14.6	0.0	69.6	0.0	38.5	0.0	0.0	69.6	69.6	70	N	-	-	54.9	Y	N	N
N5361c	25	82.5	D2-9	-	14.5	0.0	69.5	0.0	38.5	0.0	0.0	69.5	69.5	70	N	-	-	54.8	Y	N	N
N5361c	26	85.3	D2-9	-	14.4	0.0	69.4	0.0	38.4	0.0	0.0	69.4	69.4	70	N	-	-	54.8	Y	N	N
N5361c	27	88.1	D2-9	-	14.5	0.0	69.3	0.0	38.4	0.0	0.0	69.3	69.3	70	N	-	-	54.6	Y	N	N
N5361c	28	90.9	D2-9	-	14.5	0.0	69.1	0.0	38.3	0.0	0.0	69.2	69.2	70	N	-	-	54.5	Y	N	N
N5361c	29	93.7	D2-9	-	14.5	0.0	69.1	0.0	38.3	0.0	0.0	69.1	69.1	70	N	-	-	54.4	Y	N	N
N5361c	30	96.5	D2-9	-	14.4	0.0	68.9	0.0	38.2	0.0	0.0	68.9	68.9	70	N	-	-	54.3	Y	N	N
N5361c	31	99.3	D2-9	-	14.5	0.0	68.8	0.0	38.2	0.0	0.0	68.9	68.9	70	N	-	-	54.2	Y	N	N
N5361c	32	102.1	D2-9	-	14.4	0.0	68.8	0.0	38.1	0.0	0.0	68.8	68.8	70	N	-	-	54.2	Y	N	N
N5361c	33	104.9	D2-9	-	14.4	0.0	68.7	0.0	38.1	0.0	0.0	68.7	68.7	70	N	-	-	54.1	Y	N	N
N5361c	34	107.7	D2-9	-	14.3	0.0	68.6	0.0	38.1	0.0	0.0	68.6	68.6	70	N	-	-	54.1	Y	N	N
N5361c	35	110.5	D2-9	-	14.6	0.0	68.5	0.0	38.1	0.0	0.0	68.5	68.5	70	N	-	-	53.8	Y	N	N
N5361c	36	113.3	D2-9	-	14.6	0.0	68.4	0.0	38.0	0.0	0.0	68.4	68.4	70	N	-	-	53.7	Y	N	N
N5361d	1	15.3	D2-9	-	14.7	0.0	64.9	0.0	42.3	0.0	0.0	65.0	65.0	70	N	-	-	50.2	Y	N	N
N5361d	2	18.1	D2-9	-	14.7	0.0	67.1	0.0	42.3	0.0	0.0	67.1	67.1	70	N	-	-	52.3	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	New Roads[2]					New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
N5361d	3	20.9	D2-9	-	14.7	0.0	69.0	0.0	42.3	0.0	0.0	69.0	69.0	70	N	-	-	54.2	Y	N	N
N5361d	4	23.7	D2-9	-	14.7	0.0	70.5	0.0	42.3	0.0	0.0	70.5	70.5	70	Y	-	-	55.7	Y	Y	Y
N5361d	5	26.5	D2-9	-	14.7	0.0	71.2	0.0	42.3	0.0	0.0	71.2	71.2	70	Y	-	-	56.4	Y	Y	Y
N5361d	6	29.3	D2-9	-	14.7	0.0	71.6	0.0	42.2	0.0	0.0	71.6	71.6	70	Y	-	-	56.8	Y	Y	Y
N5361d	7	32.1	D2-9	-	14.7	0.0	71.8	0.0	42.2	0.0	0.0	71.8	71.8	70	Y	-	-	57.0	Y	Y	Y
N5361d	8	34.9	D2-9	-	14.7	0.0	71.9	0.0	42.2	0.0	0.0	71.9	71.9	70	Y	-	-	57.1	Y	Y	Y
N5361d	9	37.7	D2-9	-	14.7	0.0	71.9	0.0	42.2	0.0	0.0	71.9	71.9	70	Y	-	-	57.1	Y	Y	Y
N5361d	10	40.5	D2-9	-	14.7	0.0	71.9	0.0	42.1	0.0	0.0	71.9	71.9	70	Y	-	-	57.1	Y	Y	Y
N5361d	11	43.3	D2-9	-	14.7	0.0	71.8	0.0	42.1	0.0	0.0	71.8	71.8	70	Y	-	-	57.0	Y	Y	Y
N5361d	12	46.1	D2-9	-	14.7	0.0	71.8	0.0	42.1	0.0	0.0	71.8	71.8	70	Y	-	-	57.0	Y	Y	Y
N5361d	13	48.9	D2-9	-	14.7	0.0	71.7	0.0	42.1	0.0	0.0	71.7	71.7	70	Y	-	-	56.9	Y	Y	Y
N5361d	14	51.7	D2-9	-	14.7	0.0	71.7	0.0	42.0	0.0	0.0	71.7	71.7	70	Y	-	-	56.9	Y	Y	Y
N5361d	15	54.5	D2-9	-	14.7	0.0	71.6	0.0	42.0	0.0	0.0	71.6	71.6	70	Y	-	-	56.8	Y	Y	Y
N5361d	16	57.3	D2-9	-	14.6	0.0	71.5	0.0	41.9	0.0	0.0	71.5	71.5	70	Y	-	-	56.8	Y	Y	Y
N5361d	17	60.1	D2-9	-	14.7	0.0	71.4	0.0	41.9	0.0	0.0	71.4	71.4	70	Y	-	-	56.6	Y	Y	Y
N5361d	18	62.9	D2-9	-	14.6	0.0	71.3	0.0	41.9	0.0	0.0	71.3	71.3	70	Y	-	-	56.6	Y	Y	Y
N5361d	19	65.7	D2-9	-	14.6	0.0	71.2	0.0	41.8	0.0	0.0	71.2	71.2	70	Y	-	-	56.5	Y	Y	Y
N5361d	20	68.5	D2-9	-	14.6	0.0	71.0	0.0	41.8	0.0	0.0	71.0	71.0	70	Y	-	-	56.3	Y	Y	Y
N5361d	21	71.3	D2-9	-	14.6	0.0	70.9	0.0	41.7	0.0	0.0	70.9	70.9	70	Y	-	-	56.2	Y	Y	Y
N5361d	22	74.1	D2-9	-	14.5	0.0	70.8	0.0	41.7	0.0	0.0	70.8	70.8	70	Y	-	-	56.1	Y	Y	Y
N5361d	23	76.9	D2-9	-	14.6	0.0	70.7	0.0	41.7	0.0	0.0	70.7	70.7	70	Y	-	-	56.0	Y	Y	Y
N5361d	24	79.7	D2-9	-	14.6	0.0	70.6	0.0	41.6	0.0	0.0	70.6	70.6	70	Y	-	-	55.9	Y	Y	Y
N5361d	25	82.5	D2-9	-	14.5	0.0	70.5	0.0	41.6	0.0	0.0	70.5	70.5	70	Y	-	-	55.8	Y	Y	Y
N5361d	26	85.3	D2-9	-	14.5	0.0	70.4	0.0	41.5	0.0	0.0	70.4	70.4	70	N	-	-	55.7	Y	N	N
N5361d	27	88.1	D2-9	-	14.5	0.0	70.2	0.0	41.5	0.0	0.0	70.2	70.2	70	N	-	-	55.5	Y	N	N
N5361d	28	90.9	D2-9	-	14.5	0.0	70.1	0.0	41.4	0.0	0.0	70.1	70.1	70	N	-	-	55.4	Y	N	N
N5361d	29	93.7	D2-9	-	14.5	0.0	70.0	0.0	41.4	0.0	0.0	70.0	70.0	70	N	-	-	55.3	Y	N	N
N5361d	30	96.5	D2-9	-	14.5	0.0	69.9	0.0	41.3	0.0	0.0	69.9	69.9	70	N	-	-	55.2	Y	N	N
N5361d	31	99.3	D2-9	-	14.5	0.0	69.8	0.0	41.3	0.0	0.0	69.8	69.8	70	N	-	-	55.1	Y	N	N
N5361d	32	102.1	D2-9	-	14.4	0.0	69.7	0.0	41.3	0.0	0.0	69.7	69.7	70	N	-	-	55.1	Y	N	N
N5361d	33	104.9	D2-9	-	14.4	0.0	69.6	0.0	41.2	0.0	0.0	69.6	69.6	70	N	-	-	55.0	Y	N	N
N5361d	34	107.7	D2-9	-	14.3	0.0	69.5	0.0	41.2	0.0	0.0	69.5	69.5	70	N	-	-	55.0	Y	N	N
N5361d	35	110.5	D2-9	-	14.6	0.0	69.4	0.0	41.2	0.0	0.0	69.4	69.4	70	N	-	-	54.7	Y	N	N
N5361d	36	113.3	D2-9	-	14.6	0.0	69.3	0.0	41.2	0.0	0.0	69.4	69.4	70	N	-	-	54.7	Y	N	N
N5362	1	15.3	D2-9	-	19.7	0.0	60.5	0.0	37.4	0.0	0.0	60.5	60.5	70	N	-	-	40.8	Y	N	N
N5362	2	18.1	D2-9	-	19.9	0.0	62.2	0.0	37.4	0.0	0.0	62.2	62.2	70	N	-	-	42.3	Y	N	N
N5362	3	20.9	D2-9	-	20.1	0.0	63.8	0.0	37.5	0.0	0.0	63.8	63.8	70	N	-	-	43.7	Y	N	N
N5362	4	23.7	D2-9	-	20.1	0.0	64.9	0.0	37.6	0.0	0.0	64.9	64.9	70	N	-	-	44.8	Y	N	N
N5362	5	26.5	D2-9	-	20.1	0.0	65.7	0.0	37.9	0.0	0.0	65.7	65.7	70	N	-	-	45.6	Y	N	N
N5362	6	29.3	D2-9	-	20.1	0.0	66.2	0.0	38.5	0.0	0.0	66.2	66.2	70	N	-	-	46.1	Y	N	N
N5362	7	32.1	D2-9	-	20.1	0.0	66.6	0.0	39.4	0.0	0.0	66.6	66.6	70	N	-	-	46.5	Y	N	N
N5362	8	34.9	D2-9	-	20.1	0.0	66.8	0.0	40.9	0.0	0.0	66.9	66.9	70	N	-	-	46.8	Y	N	N
N5362	9	37.7	D2-9	-	20.1	0.0	67.4	0.0	43.4	0.0	0.0	67.4	67.4	70	N	-	-	47.3	Y	N	N
N5362	10	40.5	D2-9	-	20.1	0.0	68.1	0.0	47.1	0.0	0.0	68.1	68.1	70	N	-	-	48.0	Y	N	N
N5362	11	43.3	D2-9	-	20.1	0.0	68.7	0.0	48.7	0.0	0.0	68.7	68.7	70	N	-	-	48.6	Y	N	N
N5362	12	46.1	D2-9	-	20.1	0.0	69.1	0.0	49.0	0.0	0.0	69.1	69.1	70	N	-	-	49.0	Y	N	N
N5362	13	48.9	D2-9	-	20.1	0.0	69.3	0.0	49.1	0.0	0.0	69.3	69.3	70	N	-	-	49.2	Y	N	N
N5362	14	51.7	D2-9	-	20.1	0.0	69.5	0.0	49.1	0.0	0.0	69.5	69.5	70	N	-	-	49.4	Y	N	N
N5362	15	54.5	D2-9	-	20.1	0.0	69.5	0.0	49.1	0.0	0.0	69.5	69.5	70	N	-	-	49.4	Y	N	N
N5362	16	57.3	D2-9	-	20.0	0.0	69.5	0.0	49.0	0.0	0.0	69.5	69.5	70	N	-	-	49.5	Y	N	N
N5362	17	60.1	D2-9	-	20.0	0.0	69.5	0.0	49.1	0.0	0.0	69.5	69.5	70	N	-	-	49.5	Y	N	N
N5362	18	62.9	D2-9	-	20.0	0.0	69.4	0.0	49.1	0.0	0.0	69.5	69.5	70	N	-	-	49.5	Y	N	N
N5362	19	65.7	D2-9	-	20.0	0.0	69.3	0.0	49.1	0.0	0.0	69.4	69.4	70	N	-	-	49.4	Y	N	N
N5362	20	68.5	D2-9	-	20.0	0.0	69.3	0.0	49.1	0.0	0.0	69.3	69.3	70	N	-	-	49.3	Y	N	N
N5362	21	71.3	D2-9	-	20.0	0.0	69.2	0.0	49.2	0.0	0.0	69.2	69.2	70	N	-	-	49.2	Y	N	N
N5362	22	74.1	D2-9	-	20.0	0.0	69.1	0.0	49.2	0.0	0.0	69.2	69.2	70	N	-	-	49.2	Y	N	N
N5362	23	76.9	D2-9	-	20.0	0.0	69.0	0.0	49.3	0.0	0.0	69.1	69.1	70	N	-	-	49.1	Y	N	N
N5362	24	79.7	D2-9	-	20.0	0.0	68.9	0.0	49.5	0.0	0.0	69.0	69.0	70	N	-	-	49.0	Y	N	N
N5362	25	82.5	D2-9	-	19.9	0.0	68.8	0.0	49.8	0.0	0.0	68.9	68.9	70	N	-	-	49.0	Y	N	N
N5362	26	85.3	D2-9	-	19.9	0.0	68.8	0.0	50.0	0.0	0.0	68.8	68.8	70	N	-	-	48.9	Y	N	N
N5362	27	88.1	D2-9	-	19.9	0.0	68.7	0.0	50.1	0.0	0.0	68.7	68.7	70	N	-	-	48.8	Y	N	N
N5362	28	90.9	D2-9	-	19.9	0.0	68.6	0.0	50.1	0.0	0.0	68.7	68.7	70	N	-	-	48.8	Y	N	N
N5362	29	93.7	D2-9	-	19.9	0.0	68.5	0.0	50.2	0.0	0.0	68.6	68.6	70	N	-	-	48.7	Y	N	N
N5362	30	96.5	D2-9	-	19.9	0.0	68.4	0.0	50.3	0.0	0.0	68.5	68.5	70	N	-	-	48.6	Y	N	N
N5362	31	99.3	D2-9	-	19.9	0.0	68.4	0.0	50.2	0.0	0.0	68.4	68.4	70	N	-	-	48.5	Y	N	N
N5362	32	102.1	D2-9	-	19.8	0.0	68.3	0.0	50.3	0.0	0.0	68.3	68.3	70	N	-	-	48.5	Y	N	N
N5362	33	104.9	D2-9	-	19.8	0.0	68.2	0.0	50.2	0.0	0.0	68.3	68.3	70	N	-	-	48.5	Y	N	N
N5362	34	107.7	D2-9	-	19.9	0.0	68.1	0.0	50.3	0.0	0.0	68.2	68.2	70	N	-	-	48.3	Y	N	N
N5362	35	110.5	D2-9	-	19.9	0.0	68.1	0.0	50.3	0.0	0.0	68.1	68.1	70	N	-	-	48.2	Y	N	N
N5362	36	113.3	D2-9	-	20.3	0.0	68.0	0.0	50.3	0.0	0.0	68.0	68.0	70	N	-	-	47.7	Y	N	N
N5363	1	15.3	D2-9	-	19.1	0.0	48.6	37.8	58.7	0.0	0.0	59.1	59.1	70	N	-	-	39.9	Y	N	N
N5363	2	18.1	D2-9	-	19.1	0.0	49.3	37.8	58.7	0.0	0.0	59.2	59.2	70	N	-	-	40.0	Y	N	N
N5363	3	20.9	D2-9	-	19.1	0.0	49.7	37.8	58.7	0.0	0.0	59.2	59.2	70	N	-	-	40.0	Y	N	N
N5363	4	23.7	D2-9	-	19.1	0.0	50.1	37.8	58.7	0.0	0.0	59.3	59.3	70	N	-	-	40.1	Y	N	N
N5363	5	26.5	D2-9	-	19.1	0.0	50.5	37.8	58.7	0.0	0.0	59.3	59.3	70	N	-	-	40.1	Y	N	N
N5363	6	29.3	D2-9	-	19.1	0.0	50.9	37.8	58.6	0.0	0.0	59.3	59.3	70	N	-	-	40.1	Y	N	N
N5363	7	32.1	D2-9	-	19.1	0.0	51.4	37.7	58.6	0.0	0.0	59.4	59.4	70	N	-	-	40.2	Y	N	N
N5363	8	34.9	D2-9	-	19.1	0.0	51.7	37.7	58.6	0.0	0.0	59.4	59.4	70	N	-	-	40.2	Y	N	N
N5363	9	37.7	D2-9	-	19.1	0.0	52.1	37.7	58.6	0.0	0.0	59.5	59.5	70	N	-	-	40.3	Y	N	N
N5363	10	40.5	D2-9	-	19.1	0.0	52.4	37.7	58.6	0.0	0.0	59.5	59.5	70	N	-	-	40.3	Y	N	N
N5363	11	43.3	D2-9	-	19.1	0.0	52.7	37.7	58.6	0.0	0.0	59.6	59.6	70	N	-	-	40.4	Y	N	N
N5363	12	46.1	D2-9	-	19.1	0.0	53.0	37.7	58.5	0.0	0.0	59.6	59.6	70	N	-	-	40.4	Y	N	N
N5363	13	48.9	D2-9	-	19.0	0.0	53.2	37.7	58.5	0.0	0.0	59.7	59.7	70	N	-	-	40.6	Y	N	N
N5363	14	51.7	D2-9	-	19.0	0.0	53.5	37.7	58.5	0.0	0.0	59.7	59.7	70	N	-	-	40.6	Y	N	N
N5363	15	54.5	D2-9	-	19.0	0.0	53.7	37.7	58.5	0.0	0.0	59.7	59.7	70	N	-	-	40.6	Y	N	N
N5363	16	57.3	D2-9	-	19.0	0.0	53.8	37.7	58.4	0.0	0.0	59.7	59.7	70	N	-	-	40.6	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	New Roads[2]					New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
N5363	17	60.1	D2-9	-	19.0	0.0	53.9	37.7	58.4	0.0	0.0	59.7	59.7	70	N	-	-	40.6	Y	N	N
N5363	18	62.9	D2-9	-	19.0	0.0	54.0	37.7	58.4	0.0	0.0	59.8	59.8	70	N	-	-	40.7	Y	N	N
N5363	19	65.7	D2-9	-	19.0	0.0	54.1	37.6	58.3	0.0	0.0	59.8	59.8	70	N	-	-	40.7	Y	N	N
N5363	20	68.5	D2-9	-	19.0	0.0	54.3	37.6	58.3	0.0	0.0	59.8	59.8	70	N	-	-	40.7	Y	N	N
N5363	21	71.3	D2-9	-	19.0	0.0	54.3	37.6	58.3	0.0	0.0	59.8	59.8	70	N	-	-	40.7	Y	N	N
N5363	22	74.1	D2-9	-	18.9	0.0	54.4	37.6	58.2	0.0	0.0	59.7	59.7	70	N	-	-	40.7	Y	N	N
N5363	23	76.9	D2-9	-	19.0	0.0	54.5	37.6	58.2	0.0	0.0	59.7	59.7	70	N	-	-	40.6	Y	N	N
N5363	24	79.7	D2-9	-	18.9	0.0	54.5	37.6	58.2	0.0	0.0	59.7	59.7	70	N	-	-	40.7	Y	N	N
N5363	25	82.5	D2-9	-	18.9	0.0	54.5	37.6	58.1	0.0	0.0	59.7	59.7	70	N	-	-	40.7	Y	N	N
N5363	26	85.3	D2-9	-	18.9	0.0	54.6	37.5	58.1	0.0	0.0	59.7	59.7	70	N	-	-	40.7	Y	N	N
N5363	27	88.1	D2-9	-	18.9	0.0	54.7	37.5	58.0	0.0	0.0	59.7	59.7	70	N	-	-	40.7	Y	N	N
N5363	28	90.9	D2-9	-	18.9	0.0	54.7	37.5	58.0	0.0	0.0	59.7	59.7	70	N	-	-	40.7	Y	N	N
N5363	29	93.7	D2-9	-	18.9	0.0	54.7	37.5	58.0	0.0	0.0	59.7	59.7	70	N	-	-	40.7	Y	N	N
N5363	30	96.5	D2-9	-	18.9	0.0	54.8	37.5	57.9	0.0	0.0	59.7	59.7	70	N	-	-	40.7	Y	N	N
N5363	31	99.3	D2-9	-	18.9	0.0	54.9	37.5	57.9	0.0	0.0	59.7	59.7	70	N	-	-	40.7	Y	N	N
N5363	32	102.1	D2-9	-	18.9	0.0	55.0	37.4	57.9	0.0	0.0	59.8	59.8	70	N	-	-	40.8	Y	N	N
N5363	33	104.9	D2-9	-	18.9	0.0	55.2	37.4	57.9	0.0	0.0	59.8	59.8	70	N	-	-	40.8	Y	N	N
N5363	34	107.7	D2-9	-	18.8	0.0	55.5	37.4	58.0	0.0	0.0	60.0	60.0	70	N	-	-	41.1	Y	N	N
N5363	35	110.5	D2-9	-	18.9	0.0	55.9	37.4	58.0	0.0	0.0	60.1	60.1	70	N	-	-	41.1	Y	N	N
N5363	36	113.3	D2-9	-	19.5	0.0	56.5	37.4	58.0	0.0	0.0	60.3	60.3	70	N	-	-	40.8	Y	N	N
N5364	1	15.3	D2-9	-	15.0	0.0	60.5	8.5	55.8	0.0	0.0	61.7	61.8	70	N	-	-	46.7	Y	N	N
N5364	2	18.1	D2-9	-	15.0	0.0	61.6	8.5	55.8	0.0	0.0	62.6	62.6	70	N	-	-	47.5	Y	N	N
N5364	3	20.9	D2-9	-	15.0	0.0	62.5	8.5	55.8	0.0	0.0	63.4	63.4	70	N	-	-	48.3	Y	N	N
N5364	4	23.7	D2-9	-	15.0	0.0	63.5	8.5	55.8	0.0	0.0	64.2	64.2	70	N	-	-	49.1	Y	N	N
N5364	5	26.5	D2-9	-	15.0	0.0	64.4	8.5	55.8	0.0	0.0	65.0	65.0	70	N	-	-	49.9	Y	N	N
N5364	6	29.3	D2-9	-	15.0	0.0	65.1	8.5	55.8	0.0	0.0	65.6	65.6	70	N	-	-	50.5	Y	N	N
N5364	7	32.1	D2-9	-	15.0	0.0	65.7	8.5	55.8	0.0	0.0	66.1	66.1	70	N	-	-	51.0	Y	N	N
N5364	8	34.9	D2-9	-	15.1	0.0	66.1	8.5	55.8	0.0	0.0	66.5	66.5	70	N	-	-	51.3	Y	N	N
N5364	9	37.7	D2-9	-	15.1	0.0	66.4	8.5	55.8	0.0	0.0	66.8	66.8	70	N	-	-	51.6	Y	N	N
N5364	10	40.5	D2-9	-	15.1	0.0	66.7	8.6	55.7	0.0	0.0	67.0	67.0	70	N	-	-	51.8	Y	N	N
N5364	11	43.3	D2-9	-	15.0	0.0	66.8	8.6	55.7	0.0	0.0	67.1	67.1	70	N	-	-	52.0	Y	N	N
N5364	12	46.1	D2-9	-	15.0	0.0	67.0	8.6	55.7	0.0	0.0	67.3	67.3	70	N	-	-	52.2	Y	N	N
N5364	13	48.9	D2-9	-	14.9	0.0	67.0	8.7	55.7	0.0	0.0	67.3	67.3	70	N	-	-	52.3	Y	N	N
N5364	14	51.7	D2-9	-	15.1	0.0	67.1	8.3	55.7	0.0	0.0	67.4	67.4	70	N	-	-	52.2	Y	N	N
N5364	15	54.5	D2-9	-	15.2	0.0	67.1	9.2	55.7	0.0	0.0	67.4	67.4	70	N	-	-	52.1	Y	N	N
N5364	16	57.3	D2-9	-	15.4	0.0	67.1	10.1	55.6	0.0	0.0	67.4	67.4	70	N	-	-	51.9	Y	N	N
N5364	17	60.1	D2-9	-	15.5	0.0	67.1	11.2	55.6	0.0	0.0	67.4	67.4	70	N	-	-	51.8	Y	N	N
N5364	18	62.9	D2-9	-	15.6	0.0	67.2	12.3	55.6	0.0	0.0	67.5	67.5	70	N	-	-	51.8	Y	N	N
N5364	19	65.7	D2-9	-	15.7	0.0	67.1	13.6	55.6	0.0	0.0	67.4	67.4	70	N	-	-	51.6	Y	N	N
N5364	20	68.5	D2-9	-	15.7	0.0	67.1	14.8	55.5	0.0	0.0	67.4	67.4	70	N	-	-	51.6	Y	N	N
N5364	21	71.3	D2-9	-	15.8	0.0	67.1	16.1	55.5	0.0	0.0	67.4	67.4	70	N	-	-	51.5	Y	N	N
N5364	22	74.1	D2-9	-	15.8	0.0	67.1	17.3	55.5	0.0	0.0	67.4	67.4	70	N	-	-	51.5	Y	N	N
N5364	23	76.9	D2-9	-	15.8	0.0	67.0	18.3	55.5	0.0	0.0	67.3	67.3	70	N	-	-	51.4	Y	N	N
N5364	24	79.7	D2-9	-	15.8	0.0	67.0	19.3	55.4	0.0	0.0	67.3	67.3	70	N	-	-	51.4	Y	N	N
N5364	25	82.5	D2-9	-	15.8	0.0	67.0	20.2	55.4	0.0	0.0	67.3	67.3	70	N	-	-	51.4	Y	N	N
N5364	26	85.3	D2-9	-	15.8	0.0	66.9	21.3	55.4	0.0	0.0	67.2	67.2	70	N	-	-	51.3	Y	N	N
N5364	27	88.1	D2-9	-	15.8	0.0	66.9	22.5	55.4	0.0	0.0	67.2	67.2	70	N	-	-	51.3	Y	N	N
N5364	28	90.9	D2-9	-	15.7	0.0	66.8	23.7	55.4	0.0	0.0	67.1	67.1	70	N	-	-	51.3	Y	N	N
N5364	29	93.7	D2-9	-	15.7	0.0	66.8	25.0	55.3	0.0	0.0	67.1	67.1	70	N	-	-	51.3	Y	N	N
N5364	30	96.5	D2-9	-	15.7	0.0	66.8	26.3	55.3	0.0	0.0	67.0	67.0	70	N	-	-	51.2	Y	N	N
N5364	31	99.3	D2-9	-	15.8	0.0	66.7	27.8	55.3	0.0	0.0	67.0	67.0	70	N	-	-	51.1	Y	N	N
N5364	32	102.1	D2-9	-	15.9	0.0	66.7	29.5	55.2	0.0	0.0	67.0	67.0	70	N	-	-	51.0	Y	N	N
N5364	33	104.9	D2-9	-	16.1	0.0	66.7	31.5	55.2	0.0	0.0	67.0	67.0	70	N	-	-	50.8	Y	N	N
N5364	34	107.7	D2-9	-	16.4	0.0	66.7	33.7	55.3	0.0	0.0	67.0	67.0	70	N	-	-	50.5	Y	N	N
N5364	35	110.5	D2-9	-	16.7	0.0	66.6	36.1	55.3	0.0	0.0	66.9	66.9	70	N	-	-	50.1	Y	N	N
N5364	36	113.3	D2-9	-	17.0	0.0	66.6	37.4	55.4	0.0	0.0	66.9	66.9	70	N	-	-	49.8	Y	N	N
N5365	1	15.6	D2-9	-	0.0	0.0	50.7	0.0	30.5	0.0	0.0	50.7	50.7	70	N	-	-	47.7	Y	N	N
N5365	2	18.4	D2-9	-	0.0	0.0	51.8	0.0	30.5	0.0	0.0	51.8	51.8	70	N	-	-	48.8	Y	N	N
N5365	3	21.2	D2-9	-	0.0	0.0	52.9	0.0	30.4	0.0	0.0	52.9	52.9	70	N	-	-	49.9	Y	N	N
N5365	4	24.0	D2-9	-	0.0	0.0	53.8	0.0	30.4	0.0	0.0	53.8	53.8	70	N	-	-	50.8	Y	N	N
N5365	5	26.8	D2-9	-	0.0	0.0	54.6	0.0	30.4	0.0	0.0	54.6	54.6	70	N	-	-	51.6	Y	N	N
N5365	6	29.6	D2-9	-	0.0	0.0	55.3	0.0	30.4	0.0	0.0	55.3	55.3	70	N	-	-	52.3	Y	N	N
N5365	7	32.4	D2-9	-	0.0	0.0	55.9	0.0	30.4	0.0	0.0	55.9	55.9	70	N	-	-	52.9	Y	N	N
N5365	8	35.2	D2-9	-	0.0	0.0	56.5	0.0	30.4	0.0	0.0	56.5	56.5	70	N	-	-	53.5	Y	N	N
N5365	9	38.0	D2-9	-	0.0	0.0	57.2	0.0	30.4	0.0	0.0	57.2	57.2	70	N	-	-	54.2	Y	N	N
N5365	10	40.8	D2-9	-	0.0	0.0	58.1	0.0	30.3	0.0	0.0	58.1	58.1	70	N	-	-	55.1	Y	N	N
N5365	11	43.6	D2-9	-	0.0	0.0	59.2	0.0	30.3	0.0	0.0	59.2	59.2	70	N	-	-	56.2	Y	N	N
N5365	12	46.4	D2-9	-	0.0	0.0	60.5	0.0	30.3	0.0	0.0	60.5	60.5	70	N	-	-	57.5	Y	N	N
N5365	13	49.2	D2-9	-	0.0	0.0	62.0	0.0	30.3	0.0	0.0	62.0	62.0	70	N	-	-	59.0	Y	N	N
N5365	14	52.0	D2-9	-	0.0	0.0	63.3	0.0	30.2	0.0	0.0	63.3	63.3	70	N	-	-	60.3	Y	N	N
N5365	15	54.8	D2-9	-	0.0	0.0	64.4	0.0	30.2	0.0	0.0	64.4	64.4	70	N	-	-	61.4	Y	N	N
N5365	16	57.6	D2-9	-	0.0	0.0	65.2	0.0	30.2	0.0	0.0	65.2	65.2	70	N	-	-	62.2	Y	N	N
N5365	17	60.4	D2-9	-	0.0	0.0	65.7	0.0	30.2	0.0	0.0	65.7	65.7	70	N	-	-	62.7	Y	N	N
N5365	18	63.2	D2-9	-	0.0	0.0	66.0	0.0	30.1	0.0	0.0	66.0	66.0	70	N	-	-	63.0	Y	N	N
N5365	19	66.0	D2-9	-	0.0	0.0	66.2	0.0	30.1	0.0	0.0	66.2	66.2	70	N	-	-	63.2	Y	N	N
N5365	20	68.8	D2-9	-	0.0	0.0	66.3	0.0	30.1	0.0	0.0	66.3	66.3	70	N	-	-	63.3	Y	N	N
N5365	21	71.6	D2-9	-	0.0	0.0	66.3	0.0	30.0	0.0	0.0	66.3	66.3	70	N	-	-	63.3	Y	N	N
N5365	22	74.4	D2-9	-	0.0	0.0	66.3	0.0	30.0	0.0	0.0	66.3	66.3	70	N	-	-	63.3	Y	N	N
N5365	23	77.2	D2-9	-	0.0	0.0	66.2	0.0	29.9	0.0	0.0	66.2	66.2	70	N	-	-	63.2	Y	N	N
N5365	24	80.0	D2-9	-	0.0	0.0	66.2	0.0	29.9	0.0	0.0	66.2	66.2	70	N	-	-	63.2	Y	N	N
N5365	25	82.8	D2-9	-	0.0	0.0	66.2	0.0	29.9	0.0	0.0	66.2	66.2	70	N	-	-	63.2	Y	N	N
N5365	26	85.6	D2-9	-	0.0	0.0	66.1	0.0	29.8	0.0	0.0	66.1	66.1	70	N	-	-	63.1	Y	N	N
N5365	27	88.4	D2-9	-	0.0	0.0	66.1	0.0	29.8	0.0	0.0	66.1	66.1	70	N	-	-	63.1	Y	N	N
N5365	28	91.2	D2-9	-	0.0	0.0	66.0	0.0	29.8	0.0	0.0	66.0	66.0	70	N	-	-	63.0	Y	N	N
N5365	29	94.0	D2-9	-	0.0	0.0	65.9	0.0	29.7	0.0	0.0	65.9	65.9	70	N	-	-	62.9	Y	N	N
N5365	30	96.8	D2-9	-	0.0	0.0	65.9	0.0	29.7	0.0	0.0	65.9	65.9	70	N	-	-	62.9	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	New Roads[2]					New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
N5365	31	99.6	D2-9	-	0.0	0.0	65.8	0.0	29.6	0.0	0.0	65.8	65.8	70	N	-	-	62.8	Y	N	N
N5365	32	102.4	D2-9	-	0.0	0.0	65.8	0.0	29.6	0.0	0.0	65.8	65.8	70	N	-	-	62.8	Y	N	N
N5365	33	105.2	D2-9	-	0.0	0.0	65.7	0.0	29.6	0.0	0.0	65.7	65.7	70	N	-	-	62.7	Y	N	N
N5365	34	108.0	D2-9	-	0.0	0.0	65.7	0.0	29.6	0.0	0.0	65.7	65.7	70	N	-	-	62.7	Y	N	N
N5365	35	110.8	D2-9	-	0.0	0.0	65.6	0.0	29.7	0.0	0.0	65.6	65.6	70	N	-	-	62.6	Y	N	N
N5365	36	113.6	D2-9	-	0.0	0.0	65.6	0.0	29.7	0.0	0.0	65.6	65.6	70	N	-	-	62.6	Y	N	N
N5365	37	116.4	D2-9	-	0.0	0.0	65.5	0.0	29.8	0.0	0.0	65.5	65.5	70	N	-	-	62.5	Y	N	N
N5365	38	119.2	D2-9	-	0.0	0.0	65.5	0.0	29.9	0.0	0.0	65.5	65.5	70	N	-	-	62.5	Y	N	N
N5365	39	122.0	D2-9	-	0.0	0.0	65.4	0.0	30.2	0.0	0.0	65.4	65.4	70	N	-	-	62.4	Y	N	N
N5365	40	124.8	D2-9	-	0.0	0.0	65.4	0.0	30.6	0.0	0.0	65.4	65.4	70	N	-	-	62.4	Y	N	N
N5366	1	15.6	D2-9	-	21.5	0.0	41.8	0.0	57.4	0.0	0.0	57.5	57.5	70	N	-	-	36.0	Y	N	N
N5366	2	18.4	D2-9	-	21.5	0.0	43.3	0.0	57.4	0.0	0.0	57.6	57.6	70	N	-	-	36.1	Y	N	N
N5366	3	21.2	D2-9	-	21.5	0.0	44.9	0.0	57.4	0.0	0.0	57.6	57.6	70	N	-	-	36.1	Y	N	N
N5366	4	24.0	D2-9	-	21.5	0.0	46.4	0.0	57.4	0.0	0.0	57.7	57.7	70	N	-	-	36.2	Y	N	N
N5366	5	26.8	D2-9	-	21.5	0.0	47.8	0.0	57.3	0.0	0.0	57.8	57.8	70	N	-	-	36.3	Y	N	N
N5366	6	29.6	D2-9	-	21.5	0.0	49.2	0.0	57.3	0.0	0.0	57.9	57.9	70	N	-	-	36.4	Y	N	N
N5366	7	32.4	D2-9	-	21.5	0.0	50.7	0.0	57.2	0.0	0.0	58.1	58.1	70	N	-	-	36.6	Y	N	N
N5366	8	35.2	D2-9	-	21.5	0.0	52.5	0.0	57.2	0.0	0.0	58.5	58.5	70	N	-	-	37.0	Y	N	N
N5366	9	38.0	D2-9	-	21.5	0.0	54.4	0.0	57.1	0.0	0.0	59.0	59.0	70	N	-	-	37.5	Y	N	N
N5366	10	40.8	D2-9	-	21.4	0.0	56.7	0.0	57.1	0.0	0.0	59.9	59.9	70	N	-	-	38.5	Y	N	N
N5366	11	43.6	D2-9	-	21.4	0.0	58.9	0.0	57.0	0.0	0.0	61.1	61.1	70	N	-	-	39.7	Y	N	N
N5366	12	46.4	D2-9	-	21.4	0.0	60.7	0.0	57.0	0.0	0.0	62.3	62.3	70	N	-	-	40.9	Y	N	N
N5366	13	49.2	D2-9	-	21.4	0.0	62.3	0.0	56.9	0.0	0.0	63.4	63.4	70	N	-	-	42.0	Y	N	N
N5366	14	52.0	D2-9	-	21.4	0.0	63.8	0.0	56.8	0.0	0.0	64.6	64.6	70	N	-	-	43.2	Y	N	N
N5366	15	54.8	D2-9	-	21.4	0.0	65.2	0.0	56.8	0.0	0.0	65.8	65.8	70	N	-	-	44.4	Y	N	N
N5366	16	57.6	D2-9	-	21.4	0.0	66.1	0.0	56.7	0.0	0.0	66.6	66.6	70	N	-	-	45.2	Y	N	N
N5366	17	60.4	D2-9	-	21.4	0.0	66.8	0.0	56.6	0.0	0.0	67.2	67.2	70	N	-	-	45.8	Y	N	N
N5366	18	63.2	D2-9	-	21.3	0.0	67.2	0.0	56.6	0.0	0.0	67.6	67.6	70	N	-	-	46.3	Y	N	N
N5366	19	66.0	D2-9	-	21.3	0.0	67.4	0.0	56.5	0.0	0.0	67.8	67.8	70	N	-	-	46.5	Y	N	N
N5366	20	68.8	D2-9	-	21.3	0.0	67.5	0.0	56.5	0.0	0.0	67.8	67.8	70	N	-	-	46.5	Y	N	N
N5366	21	71.6	D2-9	-	21.3	0.0	67.5	0.0	56.5	0.0	0.0	67.9	67.9	70	N	-	-	46.6	Y	N	N
N5366	22	74.4	D2-9	-	21.3	0.0	67.5	0.0	56.5	0.0	0.0	67.9	67.9	70	N	-	-	46.6	Y	N	N
N5366	23	77.2	D2-9	-	21.3	0.0	67.5	0.0	56.5	0.0	0.0	67.8	67.8	70	N	-	-	46.5	Y	N	N
N5366	24	80.0	D2-9	-	21.2	0.0	67.5	0.0	56.4	0.0	0.0	67.8	67.8	70	N	-	-	46.6	Y	N	N
N5366	25	82.8	D2-9	-	21.2	0.0	67.4	0.0	56.3	0.0	0.0	67.8	67.8	70	N	-	-	46.6	Y	N	N
N5366	26	85.6	D2-9	-	21.3	0.0	67.4	0.0	56.2	0.0	0.0	67.7	67.7	70	N	-	-	46.4	Y	N	N
N5366	27	88.4	D2-9	-	21.2	0.0	67.4	0.0	56.3	0.0	0.0	67.7	67.7	70	N	-	-	46.5	Y	N	N
N5366	28	91.2	D2-9	-	21.2	0.0	67.3	0.0	56.2	0.0	0.0	67.6	67.6	70	N	-	-	46.4	Y	N	N
N5366	29	94.0	D2-9	-	21.2	0.0	67.3	0.0	56.1	0.0	0.0	67.6	67.6	70	N	-	-	46.4	Y	N	N
N5366	30	96.8	D2-9	-	21.2	0.0	67.2	0.0	56.0	0.0	0.0	67.5	67.5	70	N	-	-	46.3	Y	N	N
N5366	31	99.6	D2-9	-	21.2	0.0	67.2	0.0	56.0	0.0	0.0	67.5	67.5	70	N	-	-	46.3	Y	N	N
N5366	32	102.4	D2-9	-	21.2	0.0	67.1	0.0	55.9	0.0	0.0	67.4	67.4	70	N	-	-	46.2	Y	N	N
N5366	33	105.2	D2-9	-	21.1	0.0	67.1	0.0	55.8	0.0	0.0	67.4	67.4	70	N	-	-	46.3	Y	N	N
N5366	34	108.0	D2-9	-	21.2	0.0	67.0	0.0	55.7	0.0	0.0	67.3	67.3	70	N	-	-	46.1	Y	N	N
N5366	35	110.8	D2-9	-	21.2	0.0	67.0	0.0	55.6	0.0	0.0	67.3	67.3	70	N	-	-	46.1	Y	N	N
N5366	36	113.6	D2-9	-	21.4	0.0	66.9	0.0	55.6	0.0	0.0	67.2	67.2	70	N	-	-	45.8	Y	N	N
N5366	37	116.4	D2-9	-	22.1	0.0	66.8	0.0	55.5	0.0	0.0	67.1	67.1	70	N	-	-	45.0	Y	N	N
N5366	38	119.2	D2-9	-	23.0	0.0	66.8	0.0	55.4	0.0	0.0	67.1	67.1	70	N	-	-	44.1	Y	N	N
N5366	39	122.0	D2-9	-	23.9	0.0	66.7	0.0	55.3	0.0	0.0	67.0	67.0	70	N	-	-	43.1	Y	N	N
N5366	40	124.8	D2-9	-	25.0	0.0	66.7	0.0	55.3	0.0	0.0	67.0	67.0	70	N	-	-	42.0	Y	N	N
N5367	1	15.9	D2-9	-	0.0	0.0	54.7	0.0	12.1	0.0	0.0	54.7	54.7	70	N	-	-	51.7	Y	N	N
N5367	2	18.7	D2-9	-	0.0	0.0	54.9	0.0	12.9	0.0	0.0	54.9	54.9	70	N	-	-	51.9	Y	N	N
N5367	3	21.5	D2-9	-	0.0	0.0	55.1	0.0	14.0	0.0	0.0	55.2	55.2	70	N	-	-	52.2	Y	N	N
N5367	4	24.3	D2-9	-	0.0	0.0	55.4	0.0	15.2	0.0	0.0	55.4	55.4	70	N	-	-	52.4	Y	N	N
N5367	5	27.1	D2-9	-	0.0	0.0	55.7	0.0	16.6	0.0	0.0	55.7	55.7	70	N	-	-	52.7	Y	N	N
N5367	6	29.9	D2-9	-	0.0	0.0	56.0	0.0	17.9	0.0	0.0	56.0	56.0	70	N	-	-	53.0	Y	N	N
N5367	7	32.7	D2-9	-	0.0	0.0	56.3	0.0	19.5	0.0	0.0	56.3	56.3	70	N	-	-	53.3	Y	N	N
N5367	8	35.5	D2-9	-	0.0	0.0	56.7	0.0	21.5	0.0	0.0	56.7	56.7	70	N	-	-	53.7	Y	N	N
N5367	9	38.3	D2-9	-	0.0	0.0	57.2	0.0	24.1	0.0	0.0	57.2	57.2	70	N	-	-	54.2	Y	N	N
N5367	10	41.1	D2-9	-	0.0	0.0	57.9	0.0	27.3	0.0	0.0	57.9	57.9	70	N	-	-	54.9	Y	N	N
N5367	11	43.9	D2-9	-	0.0	0.0	59.0	0.0	30.3	0.0	0.0	59.0	59.0	70	N	-	-	56.0	Y	N	N
N5367	12	46.7	D2-9	-	0.0	0.0	60.1	0.0	31.7	0.0	0.0	60.1	60.1	70	N	-	-	57.1	Y	N	N
N5367	13	49.5	D2-9	-	0.0	0.0	61.0	0.0	32.4	0.0	0.0	61.0	61.0	70	N	-	-	58.0	Y	N	N
N5367	14	52.3	D2-9	-	0.0	0.0	61.7	0.0	32.7	0.0	0.0	61.7	61.7	70	N	-	-	58.7	Y	N	N
N5367	15	55.1	D2-9	-	0.0	0.0	62.5	0.0	32.8	0.0	0.0	62.5	62.5	70	N	-	-	59.5	Y	N	N
N5367	16	57.9	D2-9	-	0.0	0.0	63.3	0.0	32.7	0.0	0.0	63.3	63.3	70	N	-	-	60.3	Y	N	N
N5367	17	60.7	D2-9	-	0.0	0.0	64.2	0.0	32.8	0.0	0.0	64.2	64.2	70	N	-	-	61.2	Y	N	N
N5367	18	63.5	D2-9	-	0.0	0.0	64.8	0.0	32.8	0.0	0.0	64.8	64.8	70	N	-	-	61.8	Y	N	N
N5367	19	66.3	D2-9	-	0.0	0.0	65.3	0.0	32.8	0.0	0.0	65.3	65.3	70	N	-	-	62.3	Y	N	N
N5367	20	69.1	D2-9	-	0.0	0.0	65.6	0.0	32.7	0.0	0.0	65.6	65.6	70	N	-	-	62.6	Y	N	N
N5367	21	71.9	D2-9	-	0.0	0.0	65.9	0.0	32.7	0.0	0.0	65.9	65.9	70	N	-	-	62.9	Y	N	N
N5367	22	74.7	D2-9	-	0.0	0.0	66.0	0.0	32.7	0.0	0.0	66.0	66.0	70	N	-	-	63.0	Y	N	N
N5367	23	77.5	D2-9	-	0.0	0.0	66.1	0.0	32.7	0.0	0.0	66.1	66.1	70	N	-	-	63.1	Y	N	N
N5367	24	80.3	D2-9	-	0.0	0.0	66.1	0.0	32.7	0.0	0.0	66.1	66.1	70	N	-	-	63.1	Y	N	N
N5367	25	83.1	D2-9	-	0.0	0.0	66.1	0.0	32.7	0.0	0.0	66.1	66.1	70	N	-	-	63.1	Y	N	N
N5367	26	85.9	D2-9	-	0.0	0.0	66.1	0.0	32.7	0.0	0.0	66.1	66.1	70	N	-	-	63.1	Y	N	N
N5367	27	88.7	D2-9	-	0.0	0.0	66.1	0.0	32.6	0.0	0.0	66.1	66.1	70	N	-	-	63.1	Y	N	N
N5367	28	91.5	D2-9	-	0.0	0.0	66.1	0.0	32.6	0.0	0.0	66.1	66.1	70	N	-	-	63.1	Y	N	N
N5367	29	94.3	D2-9	-	0.0	0.0	66.0	0.0	32.6	0.0	0.0	66.0	66.0	70	N	-	-	63.0	Y	N	N
N5367	30	97.1	D2-9	-	0.0	0.0	66.0	0.0	32.6	0.0	0.0	66.0	66.0	70	N	-	-	63.0	Y	N	N
N5367	31	99.9	D2-9	-	0.0	0.0	65.9	0.0	32.5	0.0	0.0	65.9	65.9	70	N	-	-	62.9	Y	N	N
N5367	32	102.7	D2-9	-	0.0	0.0	65.9	0.0	32.5	0.0	0.0	65.9	65.9	70	N	-	-	62.9	Y	N	N
N5367	33	105.5	D2-9	-	0.0	0.0	65.9	0.0	32.5	0.0	0.0	65.9	65.9	70	N	-	-	62.9	Y	N	N
N5367	34	108.3	D2-9	-	0.0	0.0	65.8	0.0	32.5	0.0	0.0	65.8	65.8	70	N	-	-	62.8	Y	N	N
N5367	35	111.1	D2-9	-	0.0	0.0	65.8	0.0	32.4	0.0	0.0	65.8	65.8	70	N	-	-	62.8	Y	N	N
N5367	36	113.9	D2-9	-	0.0	0.0	65.7	0.0	32.4	0.0	0.0	65.7	65.7	70	N	-	-	62.7	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N5367	37	116.7	D2-9	-	0.0	0.0	65.7	0.0	32.4	0.0	0.0	65.7	65.7	70	N	-	-	62.7	Y	N	N
N5367	38	119.5	D2-9	-	0.0	0.0	65.6	0.0	32.4	0.0	0.0	65.6	65.6	70	N	-	-	62.6	Y	N	N
N5367	39	122.3	D2-9	-	0.0	0.0	65.6	0.0	32.3	0.0	0.0	65.6	65.6	70	N	-	-	62.6	Y	N	N
N5367	40	125.1	D2-9	-	0.0	0.0	65.5	0.0	32.3	0.0	0.0	65.5	65.5	70	N	-	-	62.5	Y	N	N
N5368	1	15.9	D2-9	-	30.0	0.0	61.9	0.0	69.1	0.0	0.0	69.9	69.9	70	N	-	-	39.9	Y	N	N
N5368	2	18.7	D2-9	-	31.9	0.0	62.1	0.0	68.9	0.0	0.0	69.7	69.7	70	N	-	-	37.8	Y	N	N
N5368	3	21.5	D2-9	-	33.8	0.0	62.4	0.0	68.7	0.0	0.0	69.6	69.6	70	N	-	-	35.8	Y	N	N
N5368	4	24.3	D2-9	-	35.6	0.0	62.6	0.0	68.4	0.0	0.0	69.4	69.4	70	N	-	-	33.8	Y	N	N
N5368	5	27.1	D2-9	-	37.7	0.0	62.9	0.0	68.1	0.0	0.0	69.3	69.3	70	N	-	-	31.6	Y	N	N
N5368	6	29.9	D2-9	-	39.6	0.0	63.1	0.0	67.9	0.0	0.0	69.1	69.2	70	N	-	-	29.6	Y	N	N
N5368	7	32.7	D2-9	-	41.9	0.0	63.2	0.0	67.6	0.0	0.0	69.0	69.0	70	N	-	-	27.1	Y	N	N
N5368	8	35.5	D2-9	-	44.1	0.0	63.4	0.0	67.3	0.0	0.0	68.8	68.8	70	N	-	-	24.7	Y	N	N
N5368	9	38.3	D2-9	-	46.1	0.0	63.5	0.0	67.0	0.0	0.0	68.6	68.6	70	N	-	-	22.5	Y	N	N
N5368	10	41.1	D2-9	-	47.1	0.0	63.6	0.0	66.8	0.0	0.0	68.5	68.5	70	N	-	-	21.4	Y	N	N
N5368	11	43.9	D2-9	-	47.6	0.0	63.7	0.0	66.5	0.0	0.0	68.4	68.4	70	N	-	-	20.8	Y	N	N
N5368	12	46.7	D2-9	-	47.8	0.0	63.8	0.0	66.3	0.0	0.0	68.2	68.2	70	N	-	-	20.4	Y	N	N
N5368	13	49.5	D2-9	-	47.9	0.0	63.9	0.0	66.1	0.0	0.0	68.1	68.2	70	N	-	-	20.3	Y	N	N
N5368	14	52.3	D2-9	-	47.9	0.0	64.1	0.0	65.9	0.0	0.0	68.1	68.1	70	N	-	-	20.2	Y	N	N
N5368	15	55.1	D2-9	-	47.9	0.0	64.3	0.0	65.7	0.0	0.0	68.1	68.1	70	N	-	-	20.2	Y	N	N
N5368	16	57.9	D2-9	-	47.9	0.0	64.7	0.0	65.5	0.0	0.0	68.1	68.2	70	N	-	-	20.3	Y	N	N
N5368	17	60.7	D2-9	-	47.9	0.0	65.0	0.0	65.4	0.0	0.0	68.2	68.2	70	N	-	-	20.3	Y	N	N
N5368	18	63.5	D2-9	-	47.8	0.0	65.2	0.0	65.2	0.0	0.0	68.2	68.3	70	N	-	-	20.5	Y	N	N
N5368	19	66.3	D2-9	-	47.8	0.0	65.5	0.0	65.1	0.0	0.0	68.3	68.3	70	N	-	-	20.5	Y	N	N
N5368	20	69.1	D2-9	-	47.8	0.0	65.6	0.0	65.0	0.0	0.0	68.3	68.4	70	N	-	-	20.6	Y	N	N
N5368	21	71.9	D2-9	-	47.8	0.0	65.7	0.0	64.9	0.0	0.0	68.3	68.4	70	N	-	-	20.6	Y	N	N
N5368	22	74.7	D2-9	-	47.8	0.0	65.8	0.0	64.7	0.0	0.0	68.3	68.3	70	N	-	-	20.5	Y	N	N
N5368	23	77.5	D2-9	-	47.7	0.0	65.8	0.0	64.6	0.0	0.0	68.3	68.3	70	N	-	-	20.6	Y	N	N
N5368	24	80.3	D2-9	-	47.7	0.0	65.9	0.0	64.5	0.0	0.0	68.2	68.3	70	N	-	-	20.6	Y	N	N
N5368	25	83.1	D2-9	-	47.7	0.0	65.9	0.0	64.3	0.0	0.0	68.2	68.2	70	N	-	-	20.5	Y	N	N
N5368	26	85.9	D2-9	-	47.7	0.0	65.8	0.0	64.2	0.0	0.0	68.1	68.1	70	N	-	-	20.4	Y	N	N
N5368	27	88.7	D2-9	-	47.7	0.0	65.8	0.0	64.0	0.0	0.0	68.0	68.1	70	N	-	-	20.4	Y	N	N
N5368	28	91.5	D2-9	-	47.6	0.0	65.7	0.0	64.0	0.0	0.0	67.9	68.0	70	N	-	-	20.4	Y	N	N
N5368	29	94.3	D2-9	-	47.6	0.0	65.7	0.0	63.9	0.0	0.0	67.9	67.9	70	N	-	-	20.3	Y	N	N
N5368	30	97.1	D2-9	-	47.6	0.0	65.7	0.0	63.7	0.0	0.0	67.8	67.8	70	N	-	-	20.2	Y	N	N
N5368	31	99.9	D2-9	-	47.6	0.0	65.6	0.0	63.6	0.0	0.0	67.7	67.8	70	N	-	-	20.2	Y	N	N
N5368	32	102.7	D2-9	-	47.5	0.0	65.6	0.0	63.5	0.0	0.0	67.7	67.7	70	N	-	-	20.2	Y	N	N
N5368	33	105.5	D2-9	-	47.5	0.0	65.5	0.0	63.4	0.0	0.0	67.6	67.7	70	N	-	-	20.2	Y	N	N
N5368	34	108.3	D2-9	-	47.4	0.0	65.5	0.0	63.2	0.0	0.0	67.5	67.6	70	N	-	-	20.2	Y	N	N
N5368	35	111.1	D2-9	-	47.4	0.0	65.5	0.0	63.1	0.0	0.0	67.5	67.5	70	N	-	-	20.1	Y	N	N
N5368	36	113.9	D2-9	-	47.4	0.0	65.4	0.0	63.0	0.0	0.0	67.4	67.4	70	N	-	-	20.0	Y	N	N
N5368	37	116.7	D2-9	-	47.3	0.0	65.4	0.0	62.9	0.0	0.0	67.3	67.4	70	N	-	-	20.1	Y	N	N
N5368	38	119.5	D2-9	-	47.3	0.0	65.3	0.0	62.8	0.0	0.0	67.3	67.3	70	N	-	-	20.0	Y	N	N
N5368	39	122.3	D2-9	-	47.3	0.0	65.3	0.0	62.7	0.0	0.0	67.2	67.2	70	N	-	-	19.9	Y	N	N
N5368	40	125.1	D2-9	-	47.3	0.0	65.2	0.0	62.7	0.0	0.0	67.1	67.2	70	N	-	-	19.9	Y	N	N
N5369	1	15.9	D2-9	-	37.1	0.0	31.1	14.6	71.4	0.0	0.0	71.4	71.4	70	Y	-	-	34.3	Y	Y	Y
N5369	2	18.7	D2-9	-	38.5	0.0	31.1	14.6	71.3	0.0	0.0	71.3	71.3	70	Y	-	-	32.8	Y	Y	Y
N5369	3	21.5	D2-9	-	40.0	0.0	31.1	14.6	71.2	0.0	0.0	71.2	71.2	70	Y	-	-	31.2	Y	Y	Y
N5369	4	24.3	D2-9	-	42.0	0.0	31.1	14.6	71.0	0.0	0.0	71.0	71.0	70	Y	-	-	29.0	Y	Y	Y
N5369	5	27.1	D2-9	-	45.4	0.0	31.1	14.6	70.8	0.0	0.0	70.8	70.8	70	Y	-	-	25.4	Y	Y	Y
N5369	6	29.9	D2-9	-	48.0	0.0	31.1	14.5	70.6	0.0	0.0	70.6	70.7	70	Y	-	-	22.7	Y	Y	Y
N5369	7	32.7	D2-9	-	48.9	0.0	31.1	14.5	70.5	0.0	0.0	70.5	70.5	70	Y	-	-	21.6	Y	Y	Y
N5369	8	35.5	D2-9	-	49.5	0.0	31.1	14.5	70.3	0.0	0.0	70.3	70.3	70	N	-	-	20.8	Y	N	N
N5369	9	38.3	D2-9	-	50.0	0.0	31.1	14.5	70.1	0.0	0.0	70.1	70.2	70	N	-	-	20.2	Y	N	N
N5369	10	41.1	D2-9	-	50.3	0.0	31.1	14.5	69.9	0.0	0.0	69.9	70.0	70	N	-	-	19.7	Y	N	N
N5369	11	43.9	D2-9	-	50.5	0.0	31.1	14.4	69.7	0.0	0.0	69.7	69.8	70	N	-	-	19.3	Y	N	N
N5369	12	46.7	D2-9	-	50.6	0.0	31.0	14.5	69.5	0.0	0.0	69.5	69.6	70	N	-	-	19.0	Y	N	N
N5369	13	49.5	D2-9	-	50.6	0.0	31.0	14.6	69.3	0.0	0.0	69.3	69.4	70	N	-	-	18.8	Y	N	N
N5369	14	52.3	D2-9	-	50.6	0.0	31.0	14.6	69.2	0.0	0.0	69.2	69.2	70	N	-	-	18.6	Y	N	N
N5369	15	55.1	D2-9	-	50.6	0.0	31.0	14.6	69.0	0.0	0.0	69.0	69.1	70	N	-	-	18.5	Y	N	N
N5369	16	57.9	D2-9	-	50.6	0.0	31.0	14.7	68.8	0.0	0.0	68.8	68.9	70	N	-	-	18.3	Y	N	N
N5369	17	60.7	D2-9	-	50.6	0.0	31.0	14.6	68.7	0.0	0.0	68.7	68.7	70	N	-	-	18.1	Y	N	N
N5369	18	63.5	D2-9	-	50.6	0.0	30.9	14.6	68.5	0.0	0.0	68.5	68.6	70	N	-	-	18.0	Y	N	N
N5369	19	66.3	D2-9	-	50.5	0.0	30.9	14.7	68.3	0.0	0.0	68.3	68.4	70	N	-	-	17.9	Y	N	N
N5369	20	69.1	D2-9	-	50.5	0.0	30.9	14.7	68.2	0.0	0.0	68.2	68.2	70	N	-	-	17.7	Y	N	N
N5369	21	71.9	D2-9	-	50.5	0.0	30.9	14.7	68.0	0.0	0.0	68.0	68.1	70	N	-	-	17.6	Y	N	N
N5369	22	74.7	D2-9	-	50.5	0.0	30.9	14.8	67.9	0.0	0.0	67.9	68.0	70	N	-	-	17.5	Y	N	N
N5369	23	77.5	D2-9	-	50.5	0.0	30.9	14.7	67.7	0.0	0.0	67.7	67.8	70	N	-	-	17.3	Y	N	N
N5369	24	80.3	D2-9	-	50.5	0.0	30.8	14.7	67.6	0.0	0.0	67.6	67.7	70	N	-	-	17.2	Y	N	N
N5369	25	83.1	D2-9	-	50.4	0.0	30.8	14.7	67.4	0.0	0.0	67.5	67.5	70	N	-	-	17.1	Y	N	N
N5369	26	85.9	D2-9	-	50.4	0.0	30.8	14.7	67.3	0.0	0.0	67.3	67.4	70	N	-	-	17.0	Y	N	N
N5369	27	88.7	D2-9	-	50.4	0.0	30.8	14.8	67.2	0.0	0.0	67.2	67.3	70	N	-	-	16.9	Y	N	N
N5369	28	91.5	D2-9	-	50.4	0.0	30.8	14.8	67.1	0.0	0.0	67.1	67.2	70	N	-	-	16.8	Y	N	N
N5369	29	94.3	D2-9	-	50.4	0.0	30.8	14.8	66.9	0.0	0.0	66.9	67.0	70	N	-	-	16.6	Y	N	N
N5369	30	97.1	D2-9	-	50.3	0.0	30.8	15.7	66.8	0.0	0.0	66.8	66.9	70	N	-	-	16.6	Y	N	N
N5369	31	99.9	D2-9	-	50.3	0.0	30.8	16.7	66.7	0.0	0.0	66.7	66.8	70	N	-	-	16.5	Y	N	N
N5369	32	102.7	D2-9	-	50.3	0.0	30.9	17.7	66.6	0.0	0.0	66.6	66.7	70	N	-	-	16.4	Y	N	N
N5369	33	105.5	D2-9	-	50.2	0.0	31.0	18.9	66.5	0.0	0.0	66.5	66.6	70	N	-	-	16.4	Y	N	N
N5369	34	108.3	D2-9	-	50.2	0.0	31.1	20.0	66.4	0.0	0.0	66.4	66.5	70	N	-	-	16.3	Y	N	N
N5369	35	111.1	D2-9	-	50.2	0.0	31.3	21.1	66.3	0.0	0.0	66.3	66.4	70	N	-	-	16.2	Y	N	N
N5369	36	113.9	D2-9	-	50.2	0.0	31.5	22.4	66.2	0.0	0.0	66.2	66.3	70	N	-	-	16.1	Y	N	N
N5369	37	116.7	D2-9	-	50.2	0.0	31.7	23.7	66.1	0.0	0.0	66.1	66.2	70	N	-	-	16.0	Y	N	N
N5369	38	119.5	D2-9	-	50.2	0.0	32.0	25.1	66.0	0.0	0.0	66.0	66.1	70	N	-	-	15.9	Y	N	N
N5369	39	122.3	D2-9	-	50.1	0.0	32.4	26.5	65.9	0.0	0.0	65.9	66.0	70	N	-	-	15.9	Y	N	N
N5369	40	125.1	D2-9	-	50.1	0.0	32.9	28.0	65.8	0.0	0.0	65.8	65.9	70	N	-	-	15.8	Y	N	N
N5370	1	15.9	D2-9	-	17.1	0.0	52.0	43.4	66.5	0.0	0.0	66.7	66.7	70	N	-	-	49.5	Y	N	N
N5370	2	18.7	D2-9	-	17.2	0.0	52.7	43.4	66.5	0.0	0.0	66.7	66.7	70	N	-	-	49.4	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT											Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							New Roads[2]														
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
							dB (A)														
N5370	3	21.5	D2-9	-	17.2	0.0	53.0	43.4	66.4	0.0	0.0	66.6	66.6	70	N	-	-	49.3	Y	N	N
N5370	4	24.3	D2-9	-	17.2	0.0	53.3	43.4	66.3	0.0	0.0	66.5	66.5	70	N	-	-	49.2	Y	N	N
N5370	5	27.1	D2-9	-	17.2	0.0	53.7	43.4	66.3	0.0	0.0	66.5	66.5	70	N	-	-	49.2	Y	N	N
N5370	6	29.9	D2-9	-	17.2	0.0	54.1	43.4	66.2	0.0	0.0	66.4	66.4	70	N	-	-	49.1	Y	N	N
N5370	7	32.7	D2-9	-	17.1	0.0	54.5	43.4	66.1	0.0	0.0	66.4	66.4	70	N	-	-	49.2	Y	N	N
N5370	8	35.5	D2-9	-	17.2	0.0	54.8	43.4	66.0	0.0	0.0	66.3	66.3	70	N	-	-	49.0	Y	N	N
N5370	9	38.3	D2-9	-	17.2	0.0	55.2	43.4	65.8	0.0	0.0	66.2	66.2	70	N	-	-	48.9	Y	N	N
N5370	10	41.1	D2-9	-	17.2	0.0	55.5	43.4	65.7	0.0	0.0	66.1	66.1	70	N	-	-	48.8	Y	N	N
N5370	11	43.9	D2-9	-	17.2	0.0	55.8	43.4	65.6	0.0	0.0	66.1	66.1	70	N	-	-	48.8	Y	N	N
N5370	12	46.7	D2-9	-	17.2	0.0	56.1	43.4	65.5	0.0	0.0	66.0	66.0	70	N	-	-	48.7	Y	N	N
N5370	13	49.5	D2-9	-	17.2	0.0	56.3	43.4	65.4	0.0	0.0	65.9	65.9	70	N	-	-	48.6	Y	N	N
N5370	14	52.3	D2-9	-	17.1	0.0	56.5	43.4	65.3	0.0	0.0	65.8	65.8	70	N	-	-	48.6	Y	N	N
N5370	15	55.1	D2-9	-	17.1	0.0	56.7	43.4	65.2	0.0	0.0	65.8	65.8	70	N	-	-	48.6	Y	N	N
N5370	16	57.9	D2-9	-	17.1	0.0	56.9	43.3	65.0	0.0	0.0	65.6	65.6	70	N	-	-	48.4	Y	N	N
N5370	17	60.7	D2-9	-	17.1	0.0	57.0	43.3	64.9	0.0	0.0	65.6	65.6	70	N	-	-	48.4	Y	N	N
N5370	18	63.5	D2-9	-	17.1	0.0	57.2	43.3	64.8	0.0	0.0	65.5	65.5	70	N	-	-	48.3	Y	N	N
N5370	19	66.3	D2-9	-	17.1	0.0	57.3	43.3	64.7	0.0	0.0	65.4	65.4	70	N	-	-	48.2	Y	N	N
N5370	20	69.1	D2-9	-	17.1	0.0	57.4	43.3	64.5	0.0	0.0	65.3	65.3	70	N	-	-	48.1	Y	N	N
N5370	21	71.9	D2-9	-	17.1	0.0	57.5	43.3	64.4	0.0	0.0	65.3	65.3	70	N	-	-	48.1	Y	N	N
N5370	22	74.7	D2-9	-	17.1	0.0	57.5	43.3	64.4	0.0	0.0	65.2	65.2	70	N	-	-	48.0	Y	N	N
N5370	23	77.5	D2-9	-	17.1	0.0	57.6	43.3	64.2	0.0	0.0	65.1	65.1	70	N	-	-	47.9	Y	N	N
N5370	24	80.3	D2-9	-	17.1	0.0	57.6	43.3	64.1	0.0	0.0	65.0	65.0	70	N	-	-	47.8	Y	N	N
N5370	25	83.1	D2-9	-	17.1	0.0	57.7	43.3	64.0	0.0	0.0	64.9	64.9	70	N	-	-	47.7	Y	N	N
N5370	26	85.9	D2-9	-	17.0	0.0	57.7	43.3	63.9	0.0	0.0	64.9	64.9	70	N	-	-	47.8	Y	N	N
N5370	27	88.7	D2-9	-	17.0	0.0	57.8	43.4	63.8	0.0	0.0	64.8	64.8	70	N	-	-	47.7	Y	N	N
N5370	28	91.5	D2-9	-	17.0	0.0	57.8	43.4	63.7	0.0	0.0	64.7	64.7	70	N	-	-	47.6	Y	N	N
N5370	29	94.3	D2-9	-	17.0	0.0	57.9	43.4	63.6	0.0	0.0	64.6	64.6	70	N	-	-	47.5	Y	N	N
N5370	30	97.1	D2-9	-	17.0	0.0	57.9	43.5	63.5	0.0	0.0	64.6	64.6	70	N	-	-	47.5	Y	N	N
N5370	31	99.9	D2-9	-	16.9	0.0	57.9	43.6	63.4	0.0	0.0	64.5	64.5	70	N	-	-	47.5	Y	N	N
N5370	32	102.7	D2-9	-	16.9	0.0	57.9	43.8	63.3	0.0	0.0	64.4	64.4	70	N	-	-	47.4	Y	N	N
N5370	33	105.5	D2-9	-	17.0	0.0	57.9	44.1	63.2	0.0	0.0	64.4	64.4	70	N	-	-	47.3	Y	N	N
N5370	34	108.3	D2-9	-	16.9	0.0	58.0	44.5	63.1	0.0	0.0	64.3	64.3	70	N	-	-	47.3	Y	N	N
N5370	35	111.1	D2-9	-	17.0	0.0	58.0	44.8	63.0	0.0	0.0	64.2	64.2	70	N	-	-	47.1	Y	N	N
N5370	36	113.9	D2-9	-	17.5	0.0	58.0	45.1	62.9	0.0	0.0	64.2	64.2	70	N	-	-	46.6	Y	N	N
N5370	37	116.7	D2-9	-	18.0	0.0	58.0	45.4	62.8	0.0	0.0	64.1	64.1	70	N	-	-	46.0	Y	N	N
N5370	38	119.5	D2-9	-	18.6	0.0	58.0	45.7	62.7	0.0	0.0	64.0	64.0	70	N	-	-	45.3	Y	N	N
N5370	39	122.3	D2-9	-	19.2	0.0	58.0	46.0	62.6	0.0	0.0	64.0	64.0	70	N	-	-	44.7	Y	N	N
N5370	40	125.1	D2-9	-	19.8	0.0	58.0	46.3	62.6	0.0	0.0	63.9	63.9	70	N	-	-	44.1	Y	N	N
N5371	1	16.1	D2-9	-	0.0	0.0	69.9	0.0	55.8	0.0	0.0	70.0	70.0	70	N	-	-	67.0	Y	N	N
N5371	2	18.9	D2-9	-	0.0	0.0	70.4	0.0	55.7	0.0	0.0	70.5	70.5	70	Y	-	-	67.5	Y	Y	Y
N5371	3	21.7	D2-9	-	0.0	0.0	70.8	0.0	55.6	0.0	0.0	70.9	70.9	70	Y	-	-	67.9	Y	Y	Y
N5371	4	24.5	D2-9	-	0.0	0.0	71.0	0.0	55.4	0.0	0.0	71.1	71.1	70	Y	-	-	68.1	Y	Y	Y
N5371	5	27.3	D2-9	-	0.0	0.0	71.1	0.0	55.3	0.0	0.0	71.2	71.2	70	Y	-	-	68.2	Y	Y	Y
N5371	6	30.1	D2-9	-	0.0	0.0	71.1	0.0	55.1	0.0	0.0	71.2	71.2	70	Y	-	-	68.2	Y	Y	Y
N5371	7	32.9	D2-9	-	0.0	0.0	71.1	0.0	54.9	0.0	0.0	71.2	71.2	70	Y	-	-	68.2	Y	Y	Y
N5371	8	35.7	D2-9	-	0.0	0.0	71.1	0.0	54.8	0.0	0.0	71.2	71.2	70	Y	-	-	68.2	Y	Y	Y
N5371	9	38.5	D2-9	-	0.0	0.0	71.1	0.0	54.6	0.0	0.0	71.2	71.2	70	Y	-	-	68.2	Y	Y	Y
N5371	10	41.3	D2-9	-	0.0	0.0	71.0	0.0	54.4	0.0	0.0	71.1	71.1	70	Y	-	-	68.1	Y	Y	Y
N5371	11	44.1	D2-9	-	0.0	0.0	70.9	0.0	54.2	0.0	0.0	71.0	71.0	70	Y	-	-	68.0	Y	Y	Y
N5371	12	46.9	D2-9	-	0.0	0.0	70.9	0.0	54.0	0.0	0.0	71.0	71.0	70	Y	-	-	68.0	Y	Y	Y
N5371	13	49.7	D2-9	-	0.0	0.0	70.8	0.0	53.8	0.0	0.0	70.9	70.9	70	Y	-	-	67.9	Y	Y	Y
N5371	14	52.5	D2-9	-	0.0	0.0	70.7	0.0	53.7	0.0	0.0	70.8	70.8	70	Y	-	-	67.8	Y	Y	Y
N5371	15	55.3	D2-9	-	0.0	0.0	70.7	0.0	53.5	0.0	0.0	70.8	70.8	70	Y	-	-	67.8	Y	Y	Y
N5371	16	58.1	D2-9	-	0.0	0.0	70.6	0.0	53.3	0.0	0.0	70.7	70.7	70	Y	-	-	67.7	Y	Y	Y
N5371	17	60.9	D2-9	-	0.0	0.0	70.5	0.0	53.1	0.0	0.0	70.6	70.6	70	Y	-	-	67.6	Y	Y	Y
N5371	18	63.7	D2-9	-	0.0	0.0	70.5	0.0	53.0	0.0	0.0	70.5	70.5	70	Y	-	-	67.5	Y	Y	Y
N5371	19	66.5	D2-9	-	0.0	0.0	70.4	0.0	52.8	0.0	0.0	70.4	70.4	70	N	-	-	67.4	Y	N	N
N5371	20	69.3	D2-9	-	0.0	0.0	70.3	0.0	52.6	0.0	0.0	70.3	70.3	70	N	-	-	67.3	Y	N	N
N5371	21	72.1	D2-9	-	0.0	0.0	70.2	0.0	52.5	0.0	0.0	70.3	70.3	70	N	-	-	67.3	Y	N	N
N5371	22	74.9	D2-9	-	0.0	0.0	70.1	0.0	52.3	0.0	0.0	70.1	70.1	70	N	-	-	67.1	Y	N	N
N5371	23	77.7	D2-9	-	0.0	0.0	70.0	0.0	52.2	0.0	0.0	70.1	70.1	70	N	-	-	67.1	Y	N	N
N5371	24	80.5	D2-9	-	0.0	0.0	69.9	0.0	52.1	0.0	0.0	70.0	70.0	70	N	-	-	67.0	Y	N	N
N5371	25	83.3	D2-9	-	0.0	0.0	69.8	0.0	51.9	0.0	0.0	69.9	69.9	70	N	-	-	66.9	Y	N	N
N5371	26	86.1	D2-9	-	0.0	0.0	69.7	0.0	51.8	0.0	0.0	69.8	69.8	70	N	-	-	66.8	Y	N	N
N5371	27	88.9	D2-9	-	0.0	0.0	69.6	0.0	51.6	0.0	0.0	69.7	69.7	70	N	-	-	66.7	Y	N	N
N5371	28	91.7	D2-9	-	0.0	0.0	69.5	0.0	51.5	0.0	0.0	69.6	69.6	70	N	-	-	66.6	Y	N	N
N5371	29	94.5	D2-9	-	0.0	0.0	69.4	0.0	51.4	0.0	0.0	69.5	69.5	70	N	-	-	66.5	Y	N	N
N5371	30	97.3	D2-9	-	0.0	0.0	69.3	0.0	51.3	0.0	0.0	69.4	69.4	70	N	-	-	66.4	Y	N	N
N5371	31	100.1	D2-9	-	0.0	0.0	69.2	0.0	51.2	0.0	0.0	69.3	69.3	70	N	-	-	66.3	Y	N	N
N5371	32	102.9	D2-9	-	0.0	0.0	69.2	0.0	51.0	0.0	0.0	69.2	69.2	70	N	-	-	66.2	Y	N	N
N5371	33	105.7	D2-9	-	0.0	0.0	69.1	0.0	50.9	0.0	0.0	69.1	69.1	70	N	-	-	66.1	Y	N	N
N5371	34	108.5	D2-9	-	0.0	0.0	69.0	0.0	50.8	0.0	0.0	69.1	69.1	70	N	-	-	66.1	Y	N	N
N5371	35	111.3	D2-9	-	0.0	0.0	68.9	0.0	50.7	0.0	0.0	69.0	69.0	70	N	-	-	66.0	Y	N	N
N5371	36	114.1	D2-9	-	0.0	0.0	68.8	0.0	50.6	0.0	0.0	68.9	68.9	70	N	-	-	65.9	Y	N	N
N5371	37	116.9	D2-9	-	0.0	0.0	68.7	0.0	50.5	0.0	0.0	68.8	68.8	70	N	-	-	65.8	Y	N	N
N5372	1	16.1	D2-9	-	51.6	0.0	69.5	0.0	22.9	0.0	0.0	69.5	69.5	70	N	-	-	17.9	Y	N	N
N5372	2	18.9	D2-9	-	52.1	0.0	69.8	0.0	22.9	0.0	0.0	69.8	69.9	70	N	-	-	17.8	Y	N	N
N5372	3	21.7	D2-9	-	52.7	0.0	70.1	0.0	22.9	0.0	0.0	70.1	70.1	70	N	-	-	17.4	Y	N	N
N5372	4	24.5	D2-9	-	53.3	0.0	70.2	0.0	22.9	0.0	0.0	70.2	70.3	70	N	-	-	17.0	Y	N	N
N5372	5	27.3	D2-9	-	54.0	0.0	70.3	0.0	22.9	0.0	0.0	70.3	70.4	70	N	-	-	16.4	Y	N	N
N5372	6	30.1	D2-9	-	54.6	0.0	70.4	0.0	22.9	0.0	0.0	70.4	70.5	70	Y	-	-	15.9	Y	N	Y
N5372	7	32.9	D2-9	-	55.5	0.0	70.4	0.0	22.9	0.0	0.0	70.4	70.5	70	Y	-	-	15.0	Y	N	Y
N5372	8	35.7	D2-9	-	56.1	0.0	70.4	0.0	22.9	0.0	0.0	70.4	70.5	70	Y	-	-	14.4	Y	N	Y
N5372	9	38.5	D2-9	-	56.6	0.0	70.3	0.0	22.9	0.0	0.0	70.3	70.5	70	Y	-	-	13.9	Y	N	Y
N5372	10	41.3	D2-9	-	57.1	0.0	70.3	0.0	22.9	0.0	0.0	70.3	70.5	70	Y	-	-	13.4	Y	N	Y
N5372	11	44.1	D2-9	-	57.4	0.0	70.2	0.0	22.8	0.0	0.0	70.2	70.5	70	Y	-	-	13.1	Y	N	Y

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N5372	12	46.9	D2-9	-	57.8	0.0	70.2	0.0	22.8	0.0	0.0	70.2	70.4	70	N	-	-	12.6	Y	N	N
N5372	13	49.7	D2-9	-	58.0	0.0	70.1	0.0	22.8	0.0	0.0	70.1	70.3	70	N	-	-	12.3	Y	N	N
N5372	14	52.5	D2-9	-	58.2	0.0	70.0	0.0	22.8	0.0	0.0	70.0	70.3	70	N	-	-	12.1	Y	N	N
N5372	15	55.3	D2-9	-	58.4	0.0	69.9	0.0	22.8	0.0	0.0	69.9	70.2	70	N	-	-	11.8	Y	N	N
N5372	16	58.1	D2-9	-	58.5	0.0	69.8	0.0	22.8	0.0	0.0	69.8	70.1	70	N	-	-	11.6	Y	N	N
N5372	17	60.9	D2-9	-	58.7	0.0	69.7	0.0	22.8	0.0	0.0	69.7	70.0	70	N	-	-	11.3	Y	N	N
N5372	18	63.7	D2-9	-	58.7	0.0	69.6	0.0	22.7	0.0	0.0	69.6	70.0	70	N	-	-	11.3	Y	N	N
N5372	19	66.5	D2-9	-	58.8	0.0	69.5	0.0	22.7	0.0	0.0	69.5	69.9	70	N	-	-	11.1	Y	N	N
N5372	20	69.3	D2-9	-	58.8	0.0	69.4	0.0	22.7	0.0	0.0	69.4	69.8	70	N	-	-	11.0	Y	N	N
N5372	21	72.1	D2-9	-	58.9	0.0	69.3	0.0	22.6	0.0	0.0	69.3	69.7	70	N	-	-	10.8	Y	N	N
N5372	22	74.9	D2-9	-	59.0	0.0	69.2	0.0	22.6	0.0	0.0	69.2	69.6	70	N	-	-	10.6	Y	N	N
N5372	23	77.7	D2-9	-	59.0	0.0	69.1	0.0	22.6	0.0	0.0	69.1	69.5	70	N	-	-	10.5	Y	N	N
N5372	24	80.5	D2-9	-	59.0	0.0	69.0	0.0	22.6	0.0	0.0	69.0	69.4	70	N	-	-	10.4	Y	N	N
N5372	25	83.3	D2-9	-	59.0	0.0	68.9	0.0	22.5	0.0	0.0	68.9	69.3	70	N	-	-	10.3	Y	N	N
N5372	26	86.1	D2-9	-	59.0	0.0	68.8	0.0	22.5	0.0	0.0	68.8	69.2	70	N	-	-	10.2	Y	N	N
N5372	27	88.9	D2-9	-	59.0	0.0	68.7	0.0	22.5	0.0	0.0	68.7	69.1	70	N	-	-	10.1	Y	N	N
N5372	28	91.7	D2-9	-	59.0	0.0	68.6	0.0	22.5	0.0	0.0	68.6	69.1	70	N	-	-	10.1	Y	N	N
N5372	29	94.5	D2-9	-	59.0	0.0	68.5	0.0	22.5	0.0	0.0	68.5	69.0	70	N	-	-	10.0	Y	N	N
N5372	30	97.3	D2-9	-	59.1	0.0	68.4	0.0	22.4	0.0	0.0	68.4	68.9	70	N	-	-	9.8	Y	N	N
N5372	31	100.1	D2-9	-	59.1	0.0	68.3	0.0	22.4	0.0	0.0	68.3	68.8	70	N	-	-	9.7	Y	N	N
N5372	32	102.9	D2-9	-	59.0	0.0	68.3	0.0	22.3	0.0	0.0	68.3	68.8	70	N	-	-	9.8	Y	N	N
N5372	33	105.7	D2-9	-	59.0	0.0	68.2	0.0	22.6	0.0	0.0	68.2	68.7	70	N	-	-	9.7	Y	N	N
N5372	34	108.5	D2-9	-	59.0	0.0	68.1	0.0	23.2	0.0	0.0	68.1	68.6	70	N	-	-	9.6	Y	N	N
N5372	35	111.3	D2-9	-	59.0	0.0	68.0	0.0	24.1	0.0	0.0	68.0	68.5	70	N	-	-	9.5	Y	N	N
N5372	36	114.1	D2-9	-	59.1	0.0	67.9	0.0	25.2	0.0	0.0	67.9	68.5	70	N	-	-	9.4	Y	N	N
N5372	37	116.9	D2-9	-	59.0	0.0	67.8	0.0	26.4	0.0	0.0	67.8	68.4	70	N	-	-	9.4	Y	N	N
N5373	1	16.1	D2-9	-	22.1	0.0	56.6	13.3	69.3	0.0	0.0	69.5	69.5	70	N	-	-	47.4	Y	N	N
N5373	2	18.9	D2-9	-	24.2	0.0	57.5	13.3	69.1	0.0	0.0	69.4	69.4	70	N	-	-	45.2	Y	N	N
N5373	3	21.7	D2-9	-	27.3	0.0	58.2	13.3	68.8	0.0	0.0	69.2	69.2	70	N	-	-	41.9	Y	N	N
N5373	4	24.5	D2-9	-	29.8	0.0	58.8	13.3	68.5	0.0	0.0	68.9	68.9	70	N	-	-	39.1	Y	N	N
N5373	5	27.3	D2-9	-	31.3	0.0	59.2	13.3	68.3	0.0	0.0	68.8	68.8	70	N	-	-	37.5	Y	N	N
N5373	6	30.1	D2-9	-	32.9	0.0	59.5	13.3	68.2	0.0	0.0	68.8	68.8	70	N	-	-	35.9	Y	N	N
N5373	7	32.9	D2-9	-	35.0	0.0	59.8	13.3	68.1	0.0	0.0	68.7	68.7	70	N	-	-	33.7	Y	N	N
N5373	8	35.7	D2-9	-	36.5	0.0	59.9	13.3	67.9	0.0	0.0	68.5	68.5	70	N	-	-	32.0	Y	N	N
N5373	9	38.5	D2-9	-	38.0	0.0	60.1	13.3	67.6	0.0	0.0	68.3	68.3	70	N	-	-	30.3	Y	N	N
N5373	10	41.3	D2-9	-	38.7	0.0	60.2	13.2	67.4	0.0	0.0	68.1	68.1	70	N	-	-	29.4	Y	N	N
N5373	11	44.1	D2-9	-	39.1	0.0	60.4	13.2	67.1	0.0	0.0	67.9	67.9	70	N	-	-	28.8	Y	N	N
N5373	12	46.9	D2-9	-	39.3	0.0	60.5	13.5	66.8	0.0	0.0	67.7	67.7	70	N	-	-	28.4	Y	N	N
N5373	13	49.7	D2-9	-	39.5	0.0	60.8	13.6	66.6	0.0	0.0	67.6	67.6	70	N	-	-	28.1	Y	N	N
N5373	14	52.5	D2-9	-	39.6	0.0	61.1	13.6	66.4	0.0	0.0	67.5	67.5	70	N	-	-	27.9	Y	N	N
N5373	15	55.3	D2-9	-	39.7	0.0	61.5	13.7	66.2	0.0	0.0	67.5	67.5	70	N	-	-	27.8	Y	N	N
N5373	16	58.1	D2-9	-	39.7	0.0	61.9	13.7	66.0	0.0	0.0	67.4	67.4	70	N	-	-	27.7	Y	N	N
N5373	17	60.9	D2-9	-	39.8	0.0	62.2	13.7	65.8	0.0	0.0	67.4	67.4	70	N	-	-	27.6	Y	N	N
N5373	18	63.7	D2-9	-	39.9	0.0	62.5	13.7	65.6	0.0	0.0	67.3	67.4	70	N	-	-	27.5	Y	N	N
N5373	19	66.5	D2-9	-	39.9	0.0	62.7	13.7	65.5	0.0	0.0	67.3	67.3	70	N	-	-	27.4	Y	N	N
N5373	20	69.3	D2-9	-	39.9	0.0	62.9	13.7	65.3	0.0	0.0	67.3	67.3	70	N	-	-	27.4	Y	N	N
N5373	21	72.1	D2-9	-	40.0	0.0	63.1	13.7	65.2	0.0	0.0	67.2	67.2	70	N	-	-	27.2	Y	N	N
N5373	22	74.9	D2-9	-	40.0	0.0	63.1	13.7	65.1	0.0	0.0	67.2	67.2	70	N	-	-	27.2	Y	N	N
N5373	23	77.7	D2-9	-	40.0	0.0	63.2	13.7	65.0	0.0	0.0	67.2	67.2	70	N	-	-	27.2	Y	N	N
N5373	24	80.5	D2-9	-	40.0	0.0	63.2	13.8	64.8	0.0	0.0	67.1	67.1	70	N	-	-	27.1	Y	N	N
N5373	25	83.3	D2-9	-	40.0	0.0	63.2	13.8	64.8	0.0	0.0	67.1	67.1	70	N	-	-	27.1	Y	N	N
N5373	26	86.1	D2-9	-	40.1	0.0	63.2	13.8	64.7	0.0	0.0	67.0	67.0	70	N	-	-	26.9	Y	N	N
N5373	27	88.9	D2-9	-	40.2	0.0	63.2	13.7	64.6	0.0	0.0	67.0	67.0	70	N	-	-	26.8	Y	N	N
N5373	28	91.7	D2-9	-	40.2	0.0	63.1	13.6	64.5	0.0	0.0	66.9	66.9	70	N	-	-	26.7	Y	N	N
N5373	29	94.5	D2-9	-	40.3	0.0	63.1	13.7	64.5	0.0	0.0	66.9	66.9	70	N	-	-	26.6	Y	N	N
N5373	30	97.3	D2-9	-	40.4	0.0	63.1	13.7	64.5	0.0	0.0	66.8	66.8	70	N	-	-	26.4	Y	N	N
N5373	31	100.1	D2-9	-	40.5	0.0	63.0	13.8	64.3	0.0	0.0	66.7	66.7	70	N	-	-	26.2	Y	N	N
N5373	32	102.9	D2-9	-	40.6	0.0	63.0	13.8	64.3	0.0	0.0	66.7	66.7	70	N	-	-	26.1	Y	N	N
N5373	33	105.7	D2-9	-	40.7	0.0	62.9	13.8	64.3	0.0	0.0	66.7	66.7	70	N	-	-	26.0	Y	N	N
N5373	34	108.5	D2-9	-	40.9	0.0	62.9	13.7	64.2	0.0	0.0	66.6	66.6	70	N	-	-	25.7	Y	N	N
N5373	35	111.3	D2-9	-	41.1	0.0	62.8	13.7	64.1	0.0	0.0	66.5	66.5	70	N	-	-	25.4	Y	N	N
N5373	36	114.1	D2-9	-	41.3	0.0	62.8	15.1	64.0	0.0	0.0	66.5	66.5	70	N	-	-	25.2	Y	N	N
N5373	37	116.9	D2-9	-	41.5	0.0	62.8	16.5	64.0	0.0	0.0	66.4	66.4	70	N	-	-	24.9	Y	N	N
N5374	1	16.1	D2-9	-	51.4	0.0	69.8	0.0	27.0	0.0	0.0	69.8	69.8	70	N	-	-	18.4	Y	N	N
N5374	2	18.9	D2-9	-	52.1	0.0	70.1	0.0	27.0	0.0	0.0	70.1	70.2	70	N	-	-	18.1	Y	N	N
N5374	3	21.7	D2-9	-	52.8	0.0	70.4	0.0	27.0	0.0	0.0	70.4	70.5	70	Y	-	-	17.7	Y	N	Y
N5374	4	24.5	D2-9	-	53.6	0.0	70.6	0.0	27.0	0.0	0.0	70.6	70.7	70	Y	-	-	17.1	Y	Y	Y
N5374	5	27.3	D2-9	-	54.4	0.0	70.7	0.0	27.0	0.0	0.0	70.7	70.8	70	Y	-	-	16.4	Y	Y	Y
N5374	6	30.1	D2-9	-	55.2	0.0	70.8	0.0	27.0	0.0	0.0	70.8	70.9	70	Y	-	-	15.7	Y	Y	Y
N5374	7	32.9	D2-9	-	56.1	0.0	70.8	0.0	27.0	0.0	0.0	70.8	70.9	70	Y	-	-	14.8	Y	Y	Y
N5374	8	35.7	D2-9	-	56.8	0.0	70.8	0.0	26.9	0.0	0.0	70.8	71.0	70	Y	-	-	14.2	Y	Y	Y
N5374	9	38.5	D2-9	-	57.4	0.0	70.8	0.0	26.9	0.0	0.0	70.8	71.0	70	Y	-	-	13.6	Y	Y	Y
N5374	10	41.3	D2-9	-	57.8	0.0	70.8	0.0	26.9	0.0	0.0	70.8	71.0	70	Y	-	-	13.2	Y	Y	Y
N5374	11	44.1	D2-9	-	58.2	0.0	70.7	0.0	26.8	0.0	0.0	70.7	71.0	70	Y	-	-	12.8	Y	Y	Y
N5374	12	46.9	D2-9	-	58.5	0.0	70.6	0.0	26.8	0.0	0.0	70.6	70.9	70	Y	-	-	12.4	Y	Y	Y
N5374	13	49.7	D2-9	-	58.7	0.0	70.6	0.0	26.8	0.0	0.0	70.6	70.9	70	Y	-	-	12.2	Y	Y	Y
N5374	14	52.5	D2-9	-	59.0	0.0	70.5	0.0	26.7	0.0	0.0	70.5	70.8	70	Y	-	-	11.8	Y	Y	Y
N5374	15	55.3	D2-9	-	59.1	0.0	70.4	0.0	26.7	0.0	0.0	70.4	70.7	70	Y	-	-	11.6	Y	N	Y
N5374	16	58.1	D2-9	-	59.2	0.0	70.4	0.0	26.6	0.0	0.0	70.4	70.7	70	Y	-	-	11.5	Y	N	Y
N5374	17	60.9	D2-9	-	59.3	0.0	70.3	0.0	26.6	0.0	0.0	70.3	70.6	70	Y	-	-	11.3	Y	N	Y
N5374	18	63.7	D2-9	-	59.4	0.0	70.2	0.0	26.5	0.0	0.0	70.2	70.5	70	Y	-	-	11.1	Y	N	Y
N5374	19	66.5	D2-9	-	59.4	0.0	70.1	0.0	26.5	0.0	0.0	70.1	70.4	70	N	-	-	11.0	Y	N	N
N5374	20	69.3	D2-9	-	59.4	0.0	70.0	0.0	26.4	0.0	0.0	70.0	70.3	70	N	-	-	10.9	Y	N	N
N5374	21	72.1	D2-9	-	59.5	0.0	69.9	0.0	26.4	0.0	0.0	69.9	70.3	70	N	-	-	10.8	Y	N	N
N5374	22	74.9	D2-9	-	59.5	0.0	69.8	0.0	26.3	0.0	0.0	69.8	70.2	70	N	-	-	10.7	Y	N	N
N5374	23	77.7	D2-9	-	59.5	0.0	69.7	0.0	26.2	0.0	0.0	69.7	70.1	70	N	-	-	10.6	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT													
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N5374	24	80.5	D2-9	-	59.6	0.0	69.6	0.0	26.2	0.0	0.0	69.6	70.0	70	N	-	-	10.4	Y	N	N
N5374	25	83.3	D2-9	-	59.6	0.0	69.5	0.0	26.1	0.0	0.0	69.5	69.9	70	N	-	-	10.3	Y	N	N
N5374	26	86.1	D2-9	-	59.6	0.0	69.4	0.0	26.1	0.0	0.0	69.4	69.8	70	N	-	-	10.2	Y	N	N
N5374	27	88.9	D2-9	-	59.6	0.0	69.3	0.0	26.0	0.0	0.0	69.3	69.8	70	N	-	-	10.2	Y	N	N
N5374	28	91.7	D2-9	-	59.6	0.0	69.2	0.0	25.9	0.0	0.0	69.2	69.7	70	N	-	-	10.1	Y	N	N
N5374	29	94.5	D2-9	-	59.6	0.0	69.1	0.0	25.9	0.0	0.0	69.1	69.6	70	N	-	-	10.0	Y	N	N
N5374	30	97.3	D2-9	-	59.6	0.0	69.0	0.0	25.8	0.0	0.0	69.0	69.5	70	N	-	-	9.9	Y	N	N
N5374	31	100.1	D2-9	-	59.6	0.0	69.0	0.0	25.8	0.0	0.0	69.0	69.4	70	N	-	-	9.8	Y	N	N
N5374	32	102.9	D2-9	-	59.6	0.0	68.9	0.0	25.7	0.0	0.0	68.9	69.4	70	N	-	-	9.8	Y	N	N
N5374	33	105.7	D2-9	-	59.6	0.0	68.8	0.0	25.6	0.0	0.0	68.8	69.3	70	N	-	-	9.7	Y	N	N
N5374	34	108.5	D2-9	-	59.6	0.0	68.7	0.0	25.6	0.0	0.0	68.7	69.2	70	N	-	-	9.6	Y	N	N
N5374	35	111.3	D2-9	-	59.6	0.0	68.6	0.0	25.5	0.0	0.0	68.6	69.1	70	N	-	-	9.5	Y	N	N
N5374	36	114.1	D2-9	-	59.6	0.0	68.5	0.0	25.4	0.0	0.0	68.5	69.1	70	N	-	-	9.5	Y	N	N
N5374	37	116.9	D2-9	-	59.6	0.0	68.4	0.0	25.4	0.0	0.0	68.4	69.0	70	N	-	-	9.4	Y	N	N
N5375	1	16.1	D2-9	-	59.2	0.0	68.8	0.0	18.7	0.0	0.0	68.8	69.3	70	N	-	-	10.1	Y	N	N
N5375	2	18.9	D2-9	-	59.6	0.0	69.0	0.0	18.7	0.0	0.0	69.0	69.5	70	N	-	-	9.9	Y	N	N
N5375	3	21.7	D2-9	-	60.1	0.0	69.2	0.0	18.7	0.0	0.0	69.2	69.7	70	N	-	-	9.6	Y	N	N
N5375	4	24.5	D2-9	-	60.5	0.0	69.4	0.0	18.7	0.0	0.0	69.4	69.9	70	N	-	-	9.4	Y	N	N
N5375	5	27.3	D2-9	-	60.9	0.0	69.5	0.0	18.7	0.0	0.0	69.5	70.1	70	N	-	-	9.2	Y	N	N
N5375	6	30.1	D2-9	-	61.3	0.0	69.6	0.0	18.7	0.0	0.0	69.6	70.2	70	N	-	-	8.9	Y	N	N
N5375	7	32.9	D2-9	-	61.6	0.0	69.6	0.0	18.7	0.0	0.0	69.6	70.3	70	N	-	-	8.7	Y	N	N
N5375	8	35.7	D2-9	-	62.0	0.0	69.7	0.0	18.7	0.0	0.0	69.7	70.3	70	N	-	-	8.3	Y	N	N
N5375	9	38.5	D2-9	-	62.3	0.0	69.7	0.0	18.7	0.0	0.0	69.7	70.4	70	N	-	-	8.1	Y	N	N
N5375	10	41.3	D2-9	-	62.6	0.0	69.7	0.0	18.6	0.0	0.0	69.7	70.4	70	N	-	-	7.8	Y	N	N
N5375	11	44.1	D2-9	-	62.9	0.0	69.7	0.0	18.6	0.0	0.0	69.7	70.5	70	Y	-	-	7.6	Y	N	Y
N5375	12	46.9	D2-9	-	63.1	0.0	69.7	0.0	18.6	0.0	0.0	69.7	70.6	70	Y	-	-	7.5	Y	N	Y
N5375	13	49.7	D2-9	-	63.3	0.0	69.7	0.0	18.6	0.0	0.0	69.7	70.6	70	Y	-	-	7.3	Y	N	Y
N5375	14	52.5	D2-9	-	63.4	0.0	69.7	0.0	18.6	0.0	0.0	69.7	70.6	70	Y	-	-	7.2	Y	N	Y
N5375	15	55.3	D2-9	-	63.5	0.0	69.6	0.0	18.6	0.0	0.0	69.6	70.6	70	Y	-	-	7.1	Y	N	Y
N5375	16	58.1	D2-9	-	63.6	0.0	69.6	0.0	18.5	0.0	0.0	69.6	70.6	70	Y	-	-	7.0	Y	N	Y
N5375	17	60.9	D2-9	-	63.6	0.0	69.6	0.0	18.5	0.0	0.0	69.6	70.6	70	Y	-	-	7.0	Y	N	Y
N5375	18	63.7	D2-9	-	63.7	0.0	69.6	0.0	18.4	0.0	0.0	69.6	70.6	70	Y	-	-	6.9	Y	N	Y
N5375	19	66.5	D2-9	-	63.7	0.0	69.5	0.0	18.5	0.0	0.0	69.5	70.5	70	Y	-	-	6.8	Y	N	Y
N5375	20	69.3	D2-9	-	63.8	0.0	69.4	0.0	18.5	0.0	0.0	69.4	70.5	70	Y	-	-	6.7	Y	N	Y
N5375	21	72.1	D2-9	-	63.8	0.0	69.3	0.0	18.4	0.0	0.0	69.3	70.4	70	N	-	-	6.6	Y	N	N
N5375	22	74.9	D2-9	-	63.8	0.0	69.3	0.0	18.6	0.0	0.0	69.3	70.4	70	N	-	-	6.6	Y	N	N
N5375	23	77.7	D2-9	-	63.8	0.0	69.2	0.0	18.6	0.0	0.0	69.2	70.3	70	N	-	-	6.5	Y	N	N
N5375	24	80.5	D2-9	-	63.8	0.0	69.1	0.0	18.6	0.0	0.0	69.1	70.2	70	N	-	-	6.4	Y	N	N
N5375	25	83.3	D2-9	-	63.8	0.0	69.0	0.0	18.7	0.0	0.0	69.0	70.2	70	N	-	-	6.4	Y	N	N
N5375	26	86.1	D2-9	-	63.8	0.0	69.0	0.0	18.6	0.0	0.0	69.0	70.1	70	N	-	-	6.3	Y	N	N
N5375	27	88.9	D2-9	-	63.9	0.0	68.9	0.0	18.6	0.0	0.0	68.9	70.1	70	N	-	-	6.2	Y	N	N
N5375	28	91.7	D2-9	-	63.9	0.0	68.8	0.0	18.6	0.0	0.0	68.8	70.1	70	N	-	-	6.2	Y	N	N
N5375	29	94.5	D2-9	-	63.9	0.0	68.8	0.0	18.7	0.0	0.0	68.8	70.0	70	N	-	-	6.1	Y	N	N
N5375	30	97.3	D2-9	-	63.9	0.0	68.7	0.0	18.6	0.0	0.0	68.7	69.9	70	N	-	-	6.0	Y	N	N
N5375	31	100.1	D2-9	-	63.9	0.0	68.6	0.0	18.6	0.0	0.0	68.6	69.9	70	N	-	-	6.0	Y	N	N
N5375	32	102.9	D2-9	-	64.0	0.0	68.6	0.0	18.6	0.0	0.0	68.6	69.9	70	N	-	-	5.9	Y	N	N
N5375	33	105.7	D2-9	-	64.1	0.0	68.5	0.0	18.6	0.0	0.0	68.5	69.9	70	N	-	-	5.8	Y	N	N
N5375	34	108.5	D2-9	-	64.2	0.0	68.4	0.0	18.6	0.0	0.0	68.4	69.8	70	N	-	-	5.6	Y	N	N
N5375	35	111.3	D2-9	-	64.3	0.0	68.4	0.0	18.5	0.0	0.0	68.4	69.8	70	N	-	-	5.5	Y	N	N
N5375	36	114.1	D2-9	-	64.4	0.0	68.3	0.0	18.6	0.0	0.0	68.3	69.8	70	N	-	-	5.4	Y	N	N
N5375	37	116.9	D2-9	-	64.4	0.0	68.3	0.0	18.6	0.0	0.0	68.3	69.8	70	N	-	-	5.4	Y	N	N
N5376	1	16.1	D2-9	-	52.9	0.0	57.6	13.2	39.3	0.0	0.0	57.6	58.9	70	N	-	-	6.0	Y	N	N
N5376	2	18.9	D2-9	-	52.9	0.0	57.6	13.2	41.4	0.0	0.0	57.7	58.9	70	N	-	-	6.0	Y	N	N
N5376	3	21.7	D2-9	-	52.9	0.0	57.5	13.2	44.1	0.0	0.0	57.7	59.0	70	N	-	-	6.1	Y	N	N
N5376	4	24.5	D2-9	-	53.1	0.0	57.5	13.2	46.7	0.0	0.0	57.9	59.1	70	N	-	-	6.0	Y	N	N
N5376	5	27.3	D2-9	-	53.5	0.0	57.5	13.2	49.7	0.0	0.0	58.2	59.5	70	N	-	-	6.0	Y	N	N
N5376	6	30.1	D2-9	-	53.7	0.0	57.5	13.2	52.6	0.0	0.0	58.7	59.9	70	N	-	-	6.2	Y	N	N
N5376	7	32.9	D2-9	-	53.8	0.0	57.5	13.2	54.5	0.0	0.0	59.3	60.4	70	N	-	-	6.6	Y	N	N
N5376	8	35.7	D2-9	-	53.8	0.0	57.5	13.2	56.3	0.0	0.0	59.9	60.9	70	N	-	-	7.1	Y	N	N
N5376	9	38.5	D2-9	-	53.8	0.0	57.4	13.1	57.5	0.0	0.0	60.5	61.3	70	N	-	-	7.5	Y	N	N
N5376	10	41.3	D2-9	-	53.8	0.0	57.4	13.1	58.0	0.0	0.0	60.7	61.5	70	N	-	-	7.7	Y	N	N
N5376	11	44.1	D2-9	-	53.8	0.0	57.4	13.1	58.2	0.0	0.0	60.9	61.6	70	N	-	-	7.8	Y	N	N
N5376	12	46.9	D2-9	-	53.8	0.0	57.4	13.1	58.3	0.0	0.0	60.9	61.7	70	N	-	-	7.9	Y	N	N
N5376	13	49.7	D2-9	-	53.8	0.0	57.4	13.1	58.4	0.0	0.0	60.9	61.7	70	N	-	-	7.9	Y	N	N
N5376	14	52.5	D2-9	-	53.8	0.0	57.3	13.1	58.5	0.0	0.0	61.0	61.7	70	N	-	-	7.9	Y	N	N
N5376	15	55.3	D2-9	-	53.8	0.0	57.3	13.0	58.6	0.0	0.0	61.0	61.8	70	N	-	-	8.0	Y	N	N
N5376	16	58.1	D2-9	-	53.8	0.0	57.3	13.0	58.6	0.0	0.0	61.0	61.8	70	N	-	-	8.0	Y	N	N
N5376	17	60.9	D2-9	-	53.7	0.0	57.2	12.8	58.7	0.0	0.0	61.0	61.8	70	N	-	-	8.1	Y	N	N
N5376	18	63.7	D2-9	-	53.7	0.0	57.2	13.0	58.7	0.0	0.0	61.0	61.8	70	N	-	-	8.1	Y	N	N
N5376	19	66.5	D2-9	-	53.7	0.0	57.2	13.2	58.8	0.0	0.0	61.1	61.8	70	N	-	-	8.1	Y	N	N
N5376	20	69.3	D2-9	-	53.7	0.0	57.2	13.2	58.8	0.0	0.0	61.1	61.8	70	N	-	-	8.1	Y	N	N
N5376	21	72.1	D2-9	-	53.7	0.0	57.2	13.2	58.9	0.0	0.0	61.1	61.9	70	N	-	-	8.2	Y	N	N
N5376	22	74.9	D2-9	-	53.6	0.0	57.1	13.2	59.0	0.0	0.0	61.2	61.9	70	N	-	-	8.3	Y	N	N
N5376	23	77.7	D2-9	-	53.6	0.0	57.1	13.1	59.1	0.0	0.0	61.2	61.9	70	N	-	-	8.3	Y	N	N
N5376	24	80.5	D2-9	-	53.7	0.0	57.1	13.1	59.3	0.0	0.0	61.4	62.1	70	N	-	-	8.4	Y	N	N
N5376	25	83.3	D2-9	-	53.7	0.0	57.1	13.1	59.4	0.0	0.0	61.4	62.1	70	N	-	-	8.4	Y	N	N
N5376	26	86.1	D2-9	-	53.7	0.0	57.1	13.1	59.6	0.0	0.0	61.6	62.2	70	N	-	-	8.5	Y	N	N
N5376	27	88.9	D2-9	-	53.8	0.0	57.1	13.0	59.8	0.0	0.0	61.7	62.4	70	N	-	-	8.6	Y	N	N
N5376	28	91.7	D2-9	-	54.1	0.0	57.2	13.0	60.0	0.0	0.0	61.8	62.5	70	N	-	-	8.4	Y	N	N
N5376	29	94.5	D2-9	-	54.3	0.0	57.2	13.0	60.2	0.0	0.0	61.9	62.6	70	N	-	-	8.3	Y	N	N
N5376	30	97.3	D2-9	-	54.7	0.0	57.3	12.9	60.4	0.0	0.0	62.1	62.8	70	N	-	-	8.1	Y	N	N
N5376	31	100.1	D2-9	-	54.9	0.0	57.4	12.8	60.5	0.0	0.0	62.2	62.9	70	N	-	-	8.0	Y	N	N
N5376	32	102.9	D2-9	-	55.2	0.0	57.5	12.9	60.6	0.0	0.0	62.3	63.1	70	N	-	-	7.9	Y	N	N
N5376	33	105.7	D2-9	-	55.4	0.0	57.6	12.9	60.7	0.0	0.0	62.5	63.2	70	N	-	-	7.8	Y	N	N
N5376	34	108.5	D2-9	-	55.7	0.0	57.8	12.9	60.9	0.0	0.0	62.6	63.4	70	N	-	-	7.7	Y	N	N
N5376	35	111.3	D2-9	-	55.9	0.0	57.9	12.9	61.0	0.0	0.0	62.7	63.5	70	N	-	-	7.6	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	New Roads[2]					New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
N5376	36	114.1	D2-9	-	56.1	0.0	58.0	13.5	61.1	0.0	0.0	62.8	63.6	70	N	-	-	7.5	Y	N	N
N5376	37	116.9	D2-9	-	56.3	0.0	58.1	14.2	61.1	0.0	0.0	62.9	63.8	70	N	-	-	7.5	Y	N	N
N5381	1	18.0	D2-12	-	66.9	0.0	16.4	6.3	69.8	0.0	0.0	69.8	71.6	70	Y	-	-	4.7	Y	N	Y
N5381	2	21.0	D2-12	-	66.9	0.0	16.4	6.3	69.7	0.0	0.0	69.7	71.5	70	Y	-	-	4.6	Y	N	Y
N5381	3	24.0	D2-12	-	66.8	0.0	16.4	6.3	69.6	0.0	0.0	69.6	71.4	70	Y	-	-	4.6	Y	N	Y
N5381	4	27.0	D2-12	-	66.7	0.0	16.4	6.3	69.4	0.0	0.0	69.4	71.3	70	Y	-	-	4.6	Y	N	Y
N5381	5	30.0	D2-12	-	66.6	0.0	16.4	6.3	69.2	0.0	0.0	69.2	71.1	70	Y	-	-	4.5	Y	N	Y
N5381	6	33.0	D2-12	-	66.5	0.0	16.4	6.3	69.0	0.0	0.0	69.0	71.0	70	Y	-	-	4.5	Y	N	Y
N5381	7	36.0	D2-12	-	66.4	0.0	16.4	6.3	68.8	0.0	0.0	68.8	70.8	70	Y	-	-	4.4	Y	N	Y
N5381	8	39.0	D2-12	-	66.3	0.0	16.4	6.2	68.6	0.0	0.0	68.6	70.6	70	Y	-	-	4.3	Y	N	Y
N5381	9	42.0	D2-12	-	66.2	0.0	16.4	6.2	68.4	0.0	0.0	68.4	70.4	70	N	-	-	4.2	Y	N	N
N5381	10	45.0	D2-12	-	66.1	0.0	16.4	6.2	68.2	0.0	0.0	68.2	70.3	70	N	-	-	4.2	Y	N	N
N5381	11	48.0	D2-12	-	65.9	0.0	16.4	6.2	68.0	0.0	0.0	68.0	70.1	70	N	-	-	4.2	Y	N	N
N5381	12	51.0	D2-12	-	65.8	0.0	16.4	6.2	67.8	0.0	0.0	67.8	69.9	70	N	-	-	4.1	Y	N	N
N5381	13	54.0	D2-12	-	65.6	0.0	16.4	6.2	67.6	0.0	0.0	67.6	69.8	70	N	-	-	4.2	Y	N	N
N5381	14	57.0	D2-12	-	65.5	0.0	16.4	6.2	67.5	0.0	0.0	67.5	69.6	70	N	-	-	4.1	Y	N	N
N5381	15	60.0	D2-12	-	65.4	0.0	16.4	6.1	67.3	0.0	0.0	67.3	69.4	70	N	-	-	4.0	Y	N	N
N5381	16	63.0	D2-12	-	65.2	0.0	16.4	6.1	67.1	0.0	0.0	67.1	69.3	70	N	-	-	4.1	Y	N	N
N5381	17	66.0	D2-12	-	65.1	0.0	16.3	6.1	67.0	0.0	0.0	67.0	69.2	70	N	-	-	4.1	Y	N	N
N5381	18	69.0	D2-12	-	65.0	0.0	16.3	6.1	66.8	0.0	0.0	66.8	69.0	70	N	-	-	4.0	Y	N	N
N5381	19	72.0	D2-12	-	64.9	0.0	16.3	6.1	66.7	0.0	0.0	66.7	68.9	70	N	-	-	4.0	Y	N	N
N5382	1	36.0	D2-12	-	57.0	0.0	26.2	0.0	68.9	0.0	0.0	68.9	69.2	70	N	-	-	12.2	Y	N	N
N5382	2	39.0	D2-12	-	57.0	0.0	26.2	0.0	68.8	0.0	0.0	68.8	69.0	70	N	-	-	12.0	Y	N	N
N5382	3	42.0	D2-12	-	57.0	0.0	26.3	0.0	68.6	0.0	0.0	68.6	68.9	70	N	-	-	11.9	Y	N	N
N5382	4	45.0	D2-12	-	56.9	0.0	26.3	0.0	68.4	0.0	0.0	68.4	68.7	70	N	-	-	11.8	Y	N	N
N5382	5	48.0	D2-12	-	56.9	0.0	26.4	0.0	68.2	0.0	0.0	68.2	68.6	70	N	-	-	11.7	Y	N	N
N5382	6	51.0	D2-12	-	56.9	0.0	26.4	0.0	68.1	0.0	0.0	68.1	68.4	70	N	-	-	11.5	Y	N	N
N5382	7	54.0	D2-12	-	56.8	0.0	26.5	0.0	67.9	0.0	0.0	67.9	68.2	70	N	-	-	11.4	Y	N	N
N5382	8	57.0	D2-12	-	56.8	0.0	26.5	0.0	67.7	0.0	0.0	67.7	68.0	70	N	-	-	11.2	Y	N	N
N5382	9	60.0	D2-12	-	56.8	0.0	26.6	0.0	67.5	0.0	0.0	67.5	67.9	70	N	-	-	11.1	Y	N	N
N5382	10	63.0	D2-12	-	56.9	0.0	26.7	0.0	67.4	0.0	0.0	67.4	67.7	70	N	-	-	10.8	Y	N	N
N5382	11	66.0	D2-12	-	56.9	0.0	26.7	0.0	67.3	0.0	0.0	67.3	67.6	70	N	-	-	10.7	Y	N	N
N5382	12	69.0	D2-12	-	56.9	0.0	26.9	0.0	67.1	0.0	0.0	67.1	67.5	70	N	-	-	10.6	Y	N	N
N5382	13	72.0	D2-12	-	56.9	0.0	26.9	0.0	66.9	0.0	0.0	66.9	67.3	70	N	-	-	10.4	Y	N	N
N5383	1	11.5	D2-12	-	68.4	0.0	48.7	9.9	0.0	0.0	0.0	48.7	68.5	70	N	-	-	0.1	N	N	N
N5383	2	15.0	D2-12	-	68.4	0.0	48.8	9.9	0.0	0.0	0.0	48.8	68.5	70	N	-	-	0.1	N	N	N
N5383	3	18.0	D2-12	-	68.3	0.0	48.9	9.9	0.0	0.0	0.0	48.9	68.4	70	N	-	-	0.1	N	N	N
N5383	4	21.0	D2-12	-	68.3	0.0	48.9	9.9	0.0	0.0	0.0	48.9	68.3	70	N	-	-	0.0	N	N	N
N5383	5	24.0	D2-12	-	68.2	0.0	49.0	9.9	0.0	0.0	0.0	49.0	68.3	70	N	-	-	0.1	N	N	N
N5383	6	27.0	D2-12	-	68.1	0.0	49.1	9.9	0.0	0.0	0.0	49.1	68.2	70	N	-	-	0.1	N	N	N
N5383	7	30.0	D2-12	-	68.0	0.0	49.1	9.9	0.0	0.0	0.0	49.1	68.1	70	N	-	-	0.1	N	N	N
N5383	8	33.0	D2-12	-	67.8	0.0	49.3	9.9	0.0	0.0	0.0	49.3	67.9	70	N	-	-	0.1	N	N	N
N5383	9	36.0	D2-12	-	67.7	0.0	49.5	9.9	0.0	0.0	0.0	49.5	67.8	70	N	-	-	0.1	N	N	N
N5383	10	39.0	D2-12	-	67.6	0.0	49.8	9.9	0.0	0.0	0.0	49.8	67.7	70	N	-	-	0.1	N	N	N
N5383	11	42.0	D2-12	-	67.5	0.0	50.1	9.9	0.0	0.0	0.0	50.1	67.6	70	N	-	-	0.1	N	N	N
N5383	12	45.0	D2-12	-	67.3	0.0	50.5	9.9	0.0	0.0	0.0	50.5	67.4	70	N	-	-	0.1	N	N	N
N5383	13	48.0	D2-12	-	67.2	0.0	50.8	9.9	0.0	0.0	0.0	50.8	67.3	70	N	-	-	0.1	N	N	N
N5383	14	51.0	D2-12	-	67.1	0.0	51.1	9.8	0.0	0.0	0.0	51.1	67.2	70	N	-	-	0.1	N	N	N
N5383	15	54.0	D2-12	-	67.0	0.0	51.2	9.8	0.0	0.0	0.0	51.2	67.1	70	N	-	-	0.1	N	N	N
N5383	16	57.0	D2-12	-	66.8	0.0	51.4	9.8	0.0	0.0	0.0	51.4	67.0	70	N	-	-	0.2	N	N	N
N5383	17	60.0	D2-12	-	66.7	0.0	51.5	9.8	0.0	0.0	0.0	51.5	66.9	70	N	-	-	0.2	N	N	N
N5383	18	63.0	D2-12	-	66.6	0.0	51.6	9.8	0.0	0.0	0.0	51.6	66.7	70	N	-	-	0.1	N	N	N
N5383	19	66.0	D2-12	-	66.4	0.0	51.6	9.8	0.0	0.0	0.0	51.6	66.6	70	N	-	-	0.2	N	N	N
N5383	20	69.0	D2-12	-	66.4	0.0	51.7	9.7	0.0	0.0	0.0	51.7	66.5	70	N	-	-	0.1	N	N	N
N5383	21	72.0	D2-12	-	66.2	0.0	51.7	9.7	0.0	0.0	0.0	51.7	66.4	70	N	-	-	0.2	N	N	N
N5384	1	11.5	D2-12	-	70.5	0.0	45.0	9.9	64.6	0.0	0.0	64.6	71.5	70	Y	-	-	1.0	Y	N	Y
N5384	2	15.0	D2-12	-	70.6	0.0	45.1	9.9	64.6	0.0	0.0	64.6	71.5	70	Y	-	-	0.9	N	N	N
N5384	3	18.0	D2-12	-	70.5	0.0	45.2	9.9	64.5	0.0	0.0	64.5	71.5	70	Y	-	-	1.0	Y	N	Y
N5384	4	21.0	D2-12	-	70.4	0.0	45.3	9.9	64.4	0.0	0.0	64.5	71.4	70	Y	-	-	1.0	Y	N	Y
N5384	5	24.0	D2-12	-	70.3	0.0	45.5	9.9	64.3	0.0	0.0	64.4	71.3	70	Y	-	-	1.0	Y	N	Y
N5384	6	27.0	D2-12	-	70.2	0.0	45.7	9.9	64.2	0.0	0.0	64.3	71.2	70	Y	-	-	1.0	Y	N	Y
N5384	7	30.0	D2-12	-	70.0	0.0	45.9	9.9	64.0	0.0	0.0	64.1	71.0	70	Y	-	-	1.0	Y	N	Y
N5384	8	33.0	D2-12	-	69.9	0.0	46.3	9.9	63.9	0.0	0.0	63.9	70.9	70	Y	-	-	1.0	Y	N	Y
N5384	9	36.0	D2-12	-	69.8	0.0	46.8	9.9	63.7	0.0	0.0	63.8	70.8	70	Y	-	-	1.0	Y	N	Y
N5384	10	39.0	D2-12	-	69.6	0.0	47.5	9.9	63.5	0.0	0.0	63.6	70.6	70	Y	-	-	1.0	Y	N	Y
N5384	11	42.0	D2-12	-	69.5	0.0	48.3	9.9	63.4	0.0	0.0	63.5	70.5	70	Y	-	-	1.0	Y	N	Y
N5384	12	45.0	D2-12	-	69.3	0.0	49.1	9.9	63.2	0.0	0.0	63.3	70.3	70	N	-	-	1.0	Y	N	N
N5384	13	48.0	D2-12	-	69.2	0.0	49.8	9.8	63.0	0.0	0.0	63.2	70.2	70	N	-	-	1.0	Y	N	N
N5384	14	51.0	D2-12	-	69.1	0.0	50.3	9.8	62.8	0.0	0.0	63.1	70.0	70	N	-	-	0.9	N	N	N
N5384	15	54.0	D2-12	-	68.9	0.0	50.7	9.8	62.6	0.0	0.0	62.9	69.9	70	N	-	-	1.0	Y	N	N
N5384	16	57.0	D2-12	-	68.8	0.0	51.0	9.8	62.5	0.0	0.0	62.8	69.7	70	N	-	-	0.9	N	N	N
N5384	17	60.0	D2-12	-	68.6	0.0	51.2	9.8	62.3	0.0	0.0	62.7	69.6	70	N	-	-	1.0	Y	N	N
N5384	18	63.0	D2-12	-	68.5	0.0	51.3	9.8	62.1	0.0	0.0	62.5	69.5	70	N	-	-	1.0	Y	N	N
N5384	19	66.0	D2-12	-	68.3	0.0	51.4	9.7	62.0	0.0	0.0	62.3	69.3	70	N	-	-	1.0	Y	N	N
N5384	20	69.0	D2-12	-	68.2	0.0	51.4	9.7	61.8	0.0	0.0	62.2	69.2	70	N	-	-	1.0	Y	N	N
N5384	21	72.0	D2-12	-	68.1	0.0	51.5	9.7	61.7	0.0	0.0	62.1	69.1	70	N	-	-	1.0	Y	N	N
N5385	1	36.0	D2-12	-	54.1	0.0	31.1	0.0	67.2	0.0	0.0	67.2	67.4	70	N	-	-	13.3	Y	N	N
N5385	2	39.0	D2-12	-	54.1	0.0	31.2	0.0	67.2	0.0	0.0	67.2	67.4	70	N	-	-	13.3	Y	N	N
N5385	3	42.0	D2-12	-	54.0	0.0	31.4	0.0	67.1	0.0	0.0	67.1	67.3	70	N	-	-	13.3	Y	N	N
N5385	4	45.0	D2-12	-	54.1	0.0	31.5	0.0	67.0	0.0	0.0	67.0	67.2	70	N	-	-	13.1	Y	N	N
N5385	5	48.0	D2-12	-	54.1	0.0	31.6	0.0	66.9	0.0	0.0	66.9	67.2	70	N	-	-	13.1	Y	N	N
N5385	6	51.0	D2-12	-	54.0	0.0	31.8	0.0	66.8	0.0	0.0	66.8	67.1	70	N	-	-	13.1	Y	N	N
N5385	7	54.0	D2-12	-	54.0	0.0	31.9	0.0	66.8	0.0	0.0	66.8	67.0	70	N	-	-	13.0	Y	N	N
N5385	8	57.0	D2-12	-	54.0	0.0	32.1	0.0	66.6	0.0	0.0	66.6	66.8	70	N	-	-	12.8	Y	N	N
N5385	9	60.0	D2-12	-	54.0	0.0	32.3	0.0	66.5	0.0	0.0	66.5	66.7	70	N	-	-	12.7	Y	N	N
N5385	10	63.0	D2-12	-	54.1	0.0	32.5	0.0	66.3	0.0	0.0	66.3	66.6	70	N	-	-	12.5	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N5385	11	66.0	D2-12	-	54.2	0.0	32.8	0.0	66.2	0.0	0.0	66.2	66.5	70	N	-	-	12.3	Y	N	N
N5385	12	69.0	D2-12	-	54.3	0.0	33.0	0.0	66.1	0.0	0.0	66.1	66.4	70	N	-	-	12.1	Y	N	N
N5385	13	72.0	D2-12	-	54.5	0.0	33.2	0.0	66.0	0.0	0.0	66.0	66.3	70	N	-	-	11.8	Y	N	N
N5386	1	11.5	D2-12	-	45.9	0.0	56.0	0.0	65.9	0.0	0.0	66.3	66.4	70	N	-	-	20.5	Y	N	N
N5386	2	15.0	D2-12	-	46.7	0.0	56.0	0.0	65.8	0.0	0.0	66.3	66.3	70	N	-	-	19.6	Y	N	N
N5386	3	18.0	D2-12	-	47.5	0.0	56.1	0.0	65.8	0.0	0.0	66.3	66.3	70	N	-	-	18.8	Y	N	N
N5386	4	21.0	D2-12	-	48.5	0.0	56.1	0.0	65.8	0.0	0.0	66.2	66.3	70	N	-	-	17.8	Y	N	N
N5386	5	24.0	D2-12	-	49.6	0.0	56.1	0.0	65.7	0.0	0.0	66.1	66.2	70	N	-	-	16.6	Y	N	N
N5386	6	27.0	D2-12	-	50.8	0.0	56.2	0.0	65.6	0.0	0.0	66.1	66.2	70	N	-	-	15.4	Y	N	N
N5386	7	30.0	D2-12	-	52.0	0.0	56.3	0.0	65.5	0.0	0.0	66.0	66.2	70	N	-	-	14.2	Y	N	N
N5386	8	33.0	D2-12	-	52.8	0.0	56.4	0.0	65.5	0.0	0.0	66.0	66.2	70	N	-	-	13.4	Y	N	N
N5386	9	36.0	D2-12	-	53.8	0.0	56.4	0.0	65.5	0.0	0.0	66.0	66.3	70	N	-	-	12.5	Y	N	N
N5386	10	39.0	D2-12	-	54.5	0.0	56.5	0.0	65.4	0.0	0.0	65.9	66.2	70	N	-	-	11.7	Y	N	N
N5386	11	42.0	D2-12	-	55.1	0.0	56.5	0.0	65.3	0.0	0.0	65.9	66.2	70	N	-	-	11.1	Y	N	N
N5386	12	45.0	D2-12	-	55.7	0.0	56.6	0.0	65.3	0.0	0.0	65.9	66.2	70	N	-	-	10.5	Y	N	N
N5386	13	48.0	D2-12	-	56.0	0.0	56.7	0.0	65.3	0.0	0.0	65.9	66.3	70	N	-	-	10.3	Y	N	N
N5386	14	51.0	D2-12	-	56.3	0.0	56.8	0.0	65.3	0.0	0.0	65.9	66.3	70	N	-	-	10.0	Y	N	N
N5386	15	54.0	D2-12	-	56.4	0.0	56.9	0.0	65.3	0.0	0.0	65.8	66.3	70	N	-	-	9.9	Y	N	N
N5386	16	57.0	D2-12	-	56.5	0.0	57.0	0.0	65.2	0.0	0.0	65.8	66.3	70	N	-	-	9.8	Y	N	N
N5386	17	60.0	D2-12	-	56.6	0.0	57.0	0.0	65.1	0.0	0.0	65.8	66.3	70	N	-	-	9.7	Y	N	N
N5386	18	63.0	D2-12	-	56.7	0.0	57.1	0.0	65.1	0.0	0.0	65.7	66.2	70	N	-	-	9.5	Y	N	N
N5386	19	66.0	D2-12	-	56.8	0.0	57.2	0.0	64.9	0.0	0.0	65.6	66.1	70	N	-	-	9.3	Y	N	N
N5386	20	69.0	D2-12	-	56.9	0.0	57.2	0.0	64.8	0.0	0.0	65.5	66.1	70	N	-	-	9.2	Y	N	N
N5386	21	72.0	D2-12	-	57.1	0.0	57.2	0.0	64.7	0.0	0.0	65.5	66.0	70	N	-	-	8.9	Y	N	N
N5387	1	36.0	D2-12	-	64.3	0.0	49.1	9.4	0.0	0.0	0.0	49.1	64.5	70	N	-	-	0.2	N	N	N
N5387	2	39.0	D2-12	-	64.2	0.0	49.2	9.4	0.0	0.0	0.0	49.2	64.3	70	N	-	-	0.1	N	N	N
N5387	3	42.0	D2-12	-	64.2	0.0	49.3	9.4	0.0	0.0	0.0	49.3	64.3	70	N	-	-	0.1	N	N	N
N5387	4	45.0	D2-12	-	64.1	0.0	49.4	9.4	0.0	0.0	0.0	49.4	64.2	70	N	-	-	0.1	N	N	N
N5387	5	48.0	D2-12	-	64.0	0.0	49.6	9.4	0.0	0.0	0.0	49.6	64.2	70	N	-	-	0.2	N	N	N
N5387	6	51.0	D2-12	-	63.9	0.0	49.7	9.3	0.0	0.0	0.0	49.7	64.1	70	N	-	-	0.2	N	N	N
N5387	7	54.0	D2-12	-	63.8	0.0	49.8	9.3	0.0	0.0	0.0	49.8	64.0	70	N	-	-	0.2	N	N	N
N5387	8	57.0	D2-12	-	63.8	0.0	49.9	9.3	0.0	0.0	0.0	49.9	63.9	70	N	-	-	0.1	N	N	N
N5387	9	60.0	D2-12	-	63.7	0.0	50.1	9.3	0.0	0.0	0.0	50.1	63.9	70	N	-	-	0.2	N	N	N
N5387	10	63.0	D2-12	-	63.6	0.0	50.2	9.3	0.0	0.0	0.0	50.2	63.8	70	N	-	-	0.2	N	N	N
N5387	11	66.0	D2-12	-	63.5	0.0	50.3	9.3	0.0	0.0	0.0	50.3	63.7	70	N	-	-	0.2	N	N	N
N5387	12	69.0	D2-12	-	63.5	0.0	50.4	9.3	0.0	0.0	0.0	50.4	63.7	70	N	-	-	0.2	N	N	N
N5387	13	72.0	D2-12	-	63.4	0.0	50.5	9.3	0.0	0.0	0.0	50.5	63.6	70	N	-	-	0.2	N	N	N
N5388	1	11.5	D2-12	-	58.9	0.0	66.9	0.0	49.5	0.0	0.0	67.0	67.6	70	N	-	-	8.7	Y	N	N
N5388	2	15.0	D2-12	-	59.4	0.0	67.0	0.0	49.6	0.0	0.0	67.1	67.8	70	N	-	-	8.4	Y	N	N
N5388	3	18.0	D2-12	-	59.8	0.0	67.2	0.0	49.6	0.0	0.0	67.3	68.0	70	N	-	-	8.2	Y	N	N
N5388	4	21.0	D2-12	-	60.2	0.0	67.4	0.0	49.7	0.0	0.0	67.4	68.2	70	N	-	-	8.0	Y	N	N
N5388	5	24.0	D2-12	-	60.6	0.0	67.5	0.0	49.8	0.0	0.0	67.6	68.4	70	N	-	-	7.8	Y	N	N
N5388	6	27.0	D2-12	-	61.1	0.0	67.6	0.0	49.9	0.0	0.0	67.7	68.6	70	N	-	-	7.5	Y	N	N
N5388	7	30.0	D2-12	-	61.5	0.0	67.8	0.0	50.5	0.0	0.0	67.8	68.7	70	N	-	-	7.2	Y	N	N
N5388	8	33.0	D2-12	-	62.0	0.0	67.9	0.0	51.0	0.0	0.0	67.9	68.9	70	N	-	-	6.9	Y	N	N
N5388	9	36.0	D2-12	-	62.4	0.0	68.0	0.0	51.1	0.0	0.0	68.1	69.1	70	N	-	-	6.7	Y	N	N
N5388	10	39.0	D2-12	-	62.8	0.0	68.0	0.0	51.3	0.0	0.0	68.1	69.2	70	N	-	-	6.4	Y	N	N
N5388	11	42.0	D2-12	-	63.0	0.0	68.1	0.0	51.6	0.0	0.0	68.2	69.3	70	N	-	-	6.3	Y	N	N
N5388	12	45.0	D2-12	-	63.1	0.0	68.1	0.0	52.0	0.0	0.0	68.2	69.4	70	N	-	-	6.3	Y	N	N
N5388	13	48.0	D2-12	-	63.2	0.0	68.1	0.0	52.5	0.0	0.0	68.2	69.4	70	N	-	-	6.2	Y	N	N
N5388	14	51.0	D2-12	-	63.3	0.0	68.1	0.0	52.8	0.0	0.0	68.3	69.5	70	N	-	-	6.2	Y	N	N
N5388	15	54.0	D2-12	-	63.4	0.0	68.1	0.0	53.2	0.0	0.0	68.2	69.5	70	N	-	-	6.1	Y	N	N
N5388	16	57.0	D2-12	-	63.4	0.0	68.1	0.0	53.4	0.0	0.0	68.2	69.5	70	N	-	-	6.1	Y	N	N
N5389	1	11.5	D2-12	-	59.7	0.0	69.2	0.0	33.7	0.0	0.0	69.2	69.7	70	N	-	-	10.0	Y	N	N
N5389	2	15.0	D2-12	-	60.1	0.0	69.4	0.0	34.4	0.0	0.0	69.4	69.9	70	N	-	-	9.8	Y	N	N
N5389	3	18.0	D2-12	-	60.5	0.0	69.5	0.0	35.1	0.0	0.0	69.5	70.0	70	N	-	-	9.5	Y	N	N
N5389	4	21.0	D2-12	-	60.9	0.0	69.7	0.0	35.7	0.0	0.0	69.7	70.2	70	N	-	-	9.3	Y	N	N
N5389	5	24.0	D2-12	-	61.4	0.0	69.8	0.0	36.3	0.0	0.0	69.8	70.4	70	N	-	-	9.0	Y	N	N
N5389	6	27.0	D2-12	-	61.9	0.0	69.9	0.0	37.0	0.0	0.0	69.9	70.5	70	Y	-	-	8.6	Y	N	Y
N5389	7	30.0	D2-12	-	62.4	0.0	70.0	0.0	37.8	0.0	0.0	70.0	70.7	70	Y	-	-	8.3	Y	N	Y
N5389	8	33.0	D2-12	-	62.9	0.0	70.1	0.0	38.6	0.0	0.0	70.1	70.8	70	Y	-	-	7.9	Y	N	Y
N5389	9	36.0	D2-12	-	63.2	0.0	70.1	0.0	39.6	0.0	0.0	70.1	70.9	70	Y	-	-	7.7	Y	N	Y
N5389	10	39.0	D2-12	-	63.5	0.0	70.1	0.0	40.7	0.0	0.0	70.2	71.0	70	Y	-	-	7.5	Y	N	Y
N5389	11	42.0	D2-12	-	63.6	0.0	70.1	0.0	42.3	0.0	0.0	70.2	71.0	70	Y	-	-	7.4	Y	N	Y
N5389	12	45.0	D2-12	-	63.8	0.0	70.1	0.0	43.7	0.0	0.0	70.1	71.0	70	Y	-	-	7.2	Y	N	Y
N5389	13	48.0	D2-12	-	63.8	0.0	70.1	0.0	45.2	0.0	0.0	70.1	71.0	70	Y	-	-	7.2	Y	N	Y
N5389	14	51.0	D2-12	-	63.9	0.0	70.1	0.0	46.1	0.0	0.0	70.1	71.0	70	Y	-	-	7.1	Y	N	Y
N5389	15	54.0	D2-12	-	63.9	0.0	70.0	0.0	46.6	0.0	0.0	70.1	71.0	70	Y	-	-	7.1	Y	N	Y
N5389	16	57.0	D2-12	-	64.0	0.0	70.0	0.0	46.9	0.0	0.0	70.0	71.0	70	Y	-	-	7.0	Y	N	Y
N5390	1	11.5	D2-12	-	62.1	0.0	12.3	0.0	34.1	0.0	0.0	34.1	62.1	70	N	-	-	0.0	N	N	N
N5390	2	15.0	D2-12	-	62.1	0.0	12.3	0.0	35.6	0.0	0.0	35.6	62.1	70	N	-	-	0.0	N	N	N
N5390	3	18.0	D2-12	-	62.2	0.0	12.3	0.0	37.1	0.0	0.0	37.1	62.2	70	N	-	-	0.0	N	N	N
N5390	4	21.0	D2-12	-	62.3	0.0	12.3	0.0	38.9	0.0	0.0	38.9	62.3	70	N	-	-	0.0	N	N	N
N5390	5	24.0	D2-12	-	62.5	0.0	12.3	0.0	41.3	0.0	0.0	41.3	62.6	70	N	-	-	0.1	N	N	N
N5390	6	27.0	D2-12	-	63.1	0.0	12.3	0.0	44.0	0.0	0.0	44.1	63.2	70	N	-	-	0.1	N	N	N
N5390	7	30.0	D2-12	-	63.9	0.0	12.3	0.0	46.8	0.0	0.0	46.8	64.0	70	N	-	-	0.1	N	N	N
N5390	8	33.0	D2-12	-	64.3	0.0	12.3	0.0	48.1	0.0	0.0	48.1	64.4	70	N	-	-	0.1	N	N	N
N5390	9	36.0	D2-12	-	64.4	0.0	12.3	0.0	48.5	0.0	0.0	48.5	64.5	70	N	-	-	0.1	N	N	N
N5390	10	39.0	D2-12	-	64.4	0.0	12.3	0.0	48.7	0.0	0.0	48.7	64.5	70	N	-	-	0.1	N	N	N
N5390	11	42.0	D2-12	-	64.4	0.0	12.2	0.0	48.8	0.0	0.0	48.8	64.5	70	N	-	-	0.1	N	N	N
N5390	12	45.0	D2-12	-	64.3	0.0	12.1	0.0	48.8	0.0	0.0	48.8	64.4	70	N	-	-	0.1	N	N	N
N5390	13	48.0	D2-12	-	64.3	0.0	12.2	0.0	48.8	0.0	0.0	48.8	64.4	70	N	-	-	0.1	N	N	N
N5390	14	51.0	D2-12	-	64.2	0.0	12.2	0.0	48.7	0.0	0.0	48.8	64.4	70	N	-	-	0.2	N	N	N
N5390	15	54.0	D2-12	-	64.2	0.0	12.3	0.0	48.7	0.0	0.0	48.7	64.3	70	N	-	-	0.1	N	N	N
N5390	16	57.0	D2-12	-	64.1	0.0	12.3	0.0	48.7	0.0	0.0	48.7	64.2	70	N	-	-	0.1	N	N	N
N5391	1	11.5	D2-12	-	60.6	0.0	69.4	0.0	18.0	0.0	0.0	69.4	69.9	70	N	-	-	9.3	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N5391	2	15.0	D2-12	-	61.2	0.0	69.5	0.0	18.0	0.0	0.0	69.5	70.1	70	N	-	-	8.9	Y	N	N
N5391	3	18.0	D2-12	-	61.6	0.0	69.6	0.0	18.0	0.0	0.0	69.6	70.2	70	N	-	-	8.6	Y	N	N
N5391	4	21.0	D2-12	-	62.0	0.0	69.7	0.0	18.0	0.0	0.0	69.7	70.4	70	N	-	-	8.4	Y	N	N
N5391	5	24.0	D2-12	-	62.4	0.0	69.8	0.0	17.9	0.0	0.0	69.8	70.5	70	Y	-	-	8.1	Y	N	Y
N5391	6	27.0	D2-12	-	63.0	0.0	69.8	0.0	17.9	0.0	0.0	69.8	70.6	70	Y	-	-	7.6	Y	N	Y
N5391	7	30.0	D2-12	-	63.5	0.0	69.9	0.0	17.9	0.0	0.0	69.9	70.8	70	Y	-	-	7.3	Y	N	Y
N5391	8	33.0	D2-12	-	63.9	0.0	70.0	0.0	17.9	0.0	0.0	70.0	70.9	70	Y	-	-	7.0	Y	N	Y
N5391	9	36.0	D2-12	-	64.1	0.0	70.0	0.0	17.9	0.0	0.0	70.0	71.0	70	Y	-	-	6.9	Y	N	Y
N5391	10	39.0	D2-12	-	64.2	0.0	70.1	0.0	17.9	0.0	0.0	70.1	71.1	70	Y	-	-	6.9	Y	N	Y
N5391	11	42.0	D2-12	-	64.3	0.0	70.1	0.0	18.0	0.0	0.0	70.1	71.1	70	Y	-	-	6.8	Y	N	Y
N5391	12	45.0	D2-12	-	64.3	0.0	70.0	0.0	18.0	0.0	0.0	70.0	71.1	70	Y	-	-	6.8	Y	N	Y
N5391	13	48.0	D2-12	-	64.4	0.0	70.0	0.0	18.0	0.0	0.0	70.0	71.0	70	Y	-	-	6.6	Y	N	Y
N5391	14	51.0	D2-12	-	64.4	0.0	69.9	0.0	18.0	0.0	0.0	69.9	71.0	70	Y	-	-	6.6	Y	N	Y
N5391	15	54.0	D2-12	-	64.4	0.0	69.9	0.0	18.0	0.0	0.0	69.9	71.0	70	Y	-	-	6.6	Y	N	Y
N5391	16	57.0	D2-12	-	64.4	0.0	69.9	0.0	18.0	0.0	0.0	69.9	71.0	70	Y	-	-	6.6	Y	N	Y
N5392	1	11.5	D2-12	-	65.9	0.0	66.9	10.5	0.0	0.0	0.0	66.9	69.4	70	N	-	-	3.5	Y	N	N
N5392	2	15.0	D2-12	-	66.1	0.0	67.0	10.6	0.0	0.0	0.0	67.0	69.6	70	N	-	-	3.5	Y	N	N
N5392	3	18.0	D2-12	-	66.3	0.0	67.2	10.6	0.0	0.0	0.0	67.2	69.8	70	N	-	-	3.5	Y	N	N
N5392	4	21.0	D2-12	-	66.5	0.0	67.2	10.6	0.0	0.0	0.0	67.2	69.9	70	N	-	-	3.4	Y	N	N
N5392	5	24.0	D2-12	-	66.7	0.0	67.3	10.6	0.0	0.0	0.0	67.3	70.0	70	N	-	-	3.3	Y	N	N
N5392	6	27.0	D2-12	-	66.8	0.0	67.3	10.6	0.0	0.0	0.0	67.3	70.1	70	N	-	-	3.3	Y	N	N
N5392	7	30.0	D2-12	-	66.9	0.0	67.4	10.6	0.0	0.0	0.0	67.4	70.2	70	N	-	-	3.3	Y	N	N
N5392	8	33.0	D2-12	-	66.9	0.0	67.4	10.6	0.0	0.0	0.0	67.4	70.2	70	N	-	-	3.3	Y	N	N
N5392	9	36.0	D2-12	-	66.9	0.0	67.5	10.6	0.0	0.0	0.0	67.5	70.2	70	N	-	-	3.3	Y	N	N
N5392	10	39.0	D2-12	-	66.9	0.0	67.6	10.6	0.0	0.0	0.0	67.6	70.3	70	N	-	-	3.4	Y	N	N
N5392	11	42.0	D2-12	-	66.8	0.0	67.7	10.6	0.0	0.0	0.0	67.7	70.3	70	N	-	-	3.5	Y	N	N
N5392	12	45.0	D2-12	-	66.8	0.0	67.7	10.6	0.0	0.0	0.0	67.7	70.3	70	N	-	-	3.5	Y	N	N
N5392	13	48.0	D2-12	-	66.7	0.0	67.6	10.6	0.0	0.0	0.0	67.6	70.2	70	N	-	-	3.5	Y	N	N
N5392	14	51.0	D2-12	-	66.7	0.0	67.6	10.6	0.0	0.0	0.0	67.6	70.2	70	N	-	-	3.5	Y	N	N
N5392	15	54.0	D2-12	-	66.6	0.0	67.6	10.6	0.0	0.0	0.0	67.6	70.1	70	N	-	-	3.5	Y	N	N
N5392	16	57.0	D2-12	-	66.6	0.0	67.5	10.6	0.0	0.0	0.0	67.5	70.1	70	N	-	-	3.5	Y	N	N
N5393	1	11.5	D2-12	-	69.4	0.0	37.7	10.4	51.1	0.0	0.0	51.3	69.5	70	N	-	-	0.1	N	N	N
N5393	2	15.0	D2-12	-	69.3	0.0	37.7	10.4	51.1	0.0	0.0	51.3	69.4	70	N	-	-	0.1	N	N	N
N5393	3	18.0	D2-12	-	69.3	0.0	37.6	10.4	51.1	0.0	0.0	51.3	69.4	70	N	-	-	0.1	N	N	N
N5393	4	21.0	D2-12	-	69.2	0.0	37.6	10.4	51.1	0.0	0.0	51.3	69.3	70	N	-	-	0.1	N	N	N
N5393	5	24.0	D2-12	-	69.1	0.0	37.7	10.4	51.1	0.0	0.0	51.3	69.1	70	N	-	-	0.0	N	N	N
N5393	6	27.0	D2-12	-	68.9	0.0	37.8	10.4	51.1	0.0	0.0	51.3	69.0	70	N	-	-	0.1	N	N	N
N5393	7	30.0	D2-12	-	68.8	0.0	38.0	10.4	51.0	0.0	0.0	51.3	68.8	70	N	-	-	0.0	N	N	N
N5393	8	33.0	D2-12	-	68.6	0.0	38.3	10.4	51.0	0.0	0.0	51.3	68.7	70	N	-	-	0.1	N	N	N
N5393	9	36.0	D2-12	-	68.4	0.0	38.6	10.4	51.0	0.0	0.0	51.2	68.5	70	N	-	-	0.1	N	N	N
N5393	10	39.0	D2-12	-	68.2	0.0	39.1	10.4	51.0	0.0	0.0	51.2	68.3	70	N	-	-	0.1	N	N	N
N5393	11	42.0	D2-12	-	68.1	0.0	39.7	10.4	51.0	0.0	0.0	51.3	68.2	70	N	-	-	0.1	N	N	N
N5393	12	45.0	D2-12	-	67.9	0.0	40.4	10.4	51.0	0.0	0.0	51.3	68.0	70	N	-	-	0.1	N	N	N
N5393	13	48.0	D2-12	-	67.7	0.0	41.2	10.4	51.0	0.0	0.0	51.4	67.8	70	N	-	-	0.1	N	N	N
N5393	14	51.0	D2-12	-	67.5	0.0	42.1	10.4	51.0	0.0	0.0	51.5	67.6	70	N	-	-	0.1	N	N	N
N5393	15	54.0	D2-12	-	67.4	0.0	43.2	10.4	51.0	0.0	0.0	51.6	67.5	70	N	-	-	0.1	N	N	N
N5393	16	57.0	D2-12	-	67.2	0.0	44.3	10.4	51.0	0.0	0.0	51.8	67.3	70	N	-	-	0.1	N	N	N
N5394	1	11.5	D2-12	-	67.8	0.0	0.0	10.3	51.2	0.0	0.0	51.2	67.9	70	N	-	-	0.1	N	N	N
N5394	2	15.0	D2-12	-	67.8	0.0	0.0	10.3	51.2	0.0	0.0	51.2	67.9	70	N	-	-	0.1	N	N	N
N5394	3	18.0	D2-12	-	67.8	0.0	0.0	10.3	51.2	0.0	0.0	51.2	67.9	70	N	-	-	0.1	N	N	N
N5394	4	21.0	D2-12	-	67.7	0.0	0.0	10.3	51.2	0.0	0.0	51.2	67.8	70	N	-	-	0.1	N	N	N
N5394	5	24.0	D2-12	-	67.6	0.0	0.0	10.3	51.2	0.0	0.0	51.2	67.7	70	N	-	-	0.1	N	N	N
N5394	6	27.0	D2-12	-	67.5	0.0	0.0	10.3	51.2	0.0	0.0	51.2	67.6	70	N	-	-	0.1	N	N	N
N5394	7	30.0	D2-12	-	67.3	0.0	0.0	10.3	51.3	0.0	0.0	51.3	67.4	70	N	-	-	0.1	N	N	N
N5394	8	33.0	D2-12	-	67.2	0.0	0.0	10.3	51.3	0.0	0.0	51.3	67.3	70	N	-	-	0.1	N	N	N
N5394	9	36.0	D2-12	-	67.0	0.0	0.0	10.3	51.3	0.0	0.0	51.3	67.2	70	N	-	-	0.2	N	N	N
N5394	10	39.0	D2-12	-	66.9	0.0	0.0	10.3	51.2	0.0	0.0	51.2	67.0	70	N	-	-	0.1	N	N	N
N5394	11	42.0	D2-12	-	66.7	0.0	0.0	10.3	51.3	0.0	0.0	51.3	66.8	70	N	-	-	0.1	N	N	N
N5394	12	45.0	D2-12	-	66.6	0.0	0.0	10.4	51.4	0.0	0.0	51.4	66.7	70	N	-	-	0.1	N	N	N
N5394	13	48.0	D2-12	-	66.4	0.0	0.0	10.3	51.5	0.0	0.0	51.5	66.6	70	N	-	-	0.2	N	N	N
N5394	14	51.0	D2-12	-	66.3	0.0	0.0	10.3	51.6	0.0	0.0	51.6	66.4	70	N	-	-	0.1	N	N	N
N5394	15	54.0	D2-12	-	66.1	0.0	0.0	10.3	51.8	0.0	0.0	51.8	66.3	70	N	-	-	0.2	N	N	N
N5394	16	57.0	D2-12	-	65.9	0.0	0.0	10.3	52.1	0.0	0.0	52.1	66.1	70	N	-	-	0.2	N	N	N
N5400	1	16.5	D3-1b	-	21.3	0.0	47.6	22.8	69.4	0.0	0.0	69.4	69.4	70	N	-	-	48.1	Y	N	N
N5400	2	19.3	D3-1b	-	21.4	0.0	47.9	22.8	69.3	0.0	0.0	69.4	69.4	70	N	-	-	48.0	Y	N	N
N5400	3	22.1	D3-1b	-	21.4	0.0	48.1	22.8	69.2	0.0	0.0	69.3	69.3	70	N	-	-	47.9	Y	N	N
N5400	4	24.9	D3-1b	-	21.5	0.0	48.3	22.8	69.1	0.0	0.0	69.1	69.1	70	N	-	-	47.6	Y	N	N
N5400	5	27.7	D3-1b	-	21.5	0.0	48.4	22.8	69.0	0.0	0.0	69.0	69.0	70	N	-	-	47.5	Y	N	N
N5400	6	30.5	D3-1b	-	21.5	0.0	48.7	22.7	68.8	0.0	0.0	68.9	68.9	70	N	-	-	47.4	Y	N	N
N5400	7	33.3	D3-1b	-	21.6	0.0	48.9	22.7	68.7	0.0	0.0	68.7	68.7	70	N	-	-	47.1	Y	N	N
N5400	8	36.1	D3-1b	-	21.7	0.0	49.1	22.7	68.5	0.0	0.0	68.6	68.6	70	N	-	-	46.9	Y	N	N
N5400	9	38.9	D3-1b	-	21.7	0.0	49.3	22.7	68.4	0.0	0.0	68.4	68.4	70	N	-	-	46.7	Y	N	N
N5400	10	41.7	D3-1b	-	21.8	0.0	49.5	22.7	68.2	0.0	0.0	68.3	68.3	70	N	-	-	46.5	Y	N	N
N5400	11	44.5	D3-1b	-	21.8	0.0	49.7	22.6	68.1	0.0	0.0	68.1	68.1	70	N	-	-	46.3	Y	N	N
N5400	12	47.3	D3-1b	-	21.9	0.0	49.9	22.6	67.9	0.0	0.0	68.0	68.0	70	N	-	-	46.1	Y	N	N
N5400	13	50.1	D3-1b	-	22.0	0.0	50.2	22.6	67.8	0.0	0.0	67.9	67.9	70	N	-	-	45.9	Y	N	N
N5400	14	52.9	D3-1b	-	22.1	0.0	50.4	22.6	67.6	0.0	0.0	67.7	67.7	70	N	-	-	45.6	Y	N	N
N5400	15	55.7	D3-1b	-	22.2	0.0	50.5	22.5	67.5	0.0	0.0	67.6	67.6	70	N	-	-	45.4	Y	N	N
N5400	16	58.5	D3-1b	-	22.3	0.0	50.7	22.6	67.3	0.0	0.0	67.4	67.4	70	N	-	-	45.1	Y	N	N
N5400	17	61.3	D3-1b	-	22.4	0.0	50.8	22.7	67.2	0.0	0.0	67.3	67.3	70	N	-	-	44.9	Y	N	N
N5400	18	64.1	D3-1b	-	22.5	0.0	51.0	22.8	67.0	0.0	0.0	67.1	67.1	70	N	-	-	44.6	Y	N	N
N5400	19	66.9	D3-1b	-	22.7	0.0	51.1	22.9	66.9	0.0	0.0	67.0	67.0	70	N	-	-	44.3	Y	N	N
N5400	20	69.7	D3-1b	-	22.8	0.0	51.3	23.2	66.8	0.0	0.0	66.9	66.9	70	N	-	-	44.1	Y	N	N
N5400	21	72.5	D3-1b	-	23.0	0.0	51.3	23.5	66.6	0.0	0.0	66.8	66.8	70	N	-	-	43.8	Y	N	N
N5400	22	75.3	D3-1b	-	23.2	0.0	51.5	23.9	66.5	0.0	0.0	66.7	66.7	70	N	-	-	43.5	Y	N	N
N5400	23	78.1	D3-1b	-	23.3	0.0	51.5	24.5	66.4	0.0	0.0	66.5	66.5	70	N	-	-	43.2	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N5400	24	80.9	D3-1b	-	23.6	0.0	51.6	25.1	66.2	0.0	0.0	66.4	66.4	70	N	-	-	42.8	Y	N	N
N5400	25	83.7	D3-1b	-	23.8	0.0	51.7	25.9	66.1	0.0	0.0	66.3	66.3	70	N	-	-	42.5	Y	N	N
N5400	26	86.5	D3-1b	-	24.2	0.0	51.7	26.8	66.0	0.0	0.0	66.2	66.2	70	N	-	-	42.0	Y	N	N
N5400	27	89.3	D3-1b	-	24.5	0.0	51.8	27.8	65.9	0.0	0.0	66.1	66.1	70	N	-	-	41.6	Y	N	N
N5400	28	92.1	D3-1b	-	25.0	0.0	51.9	28.8	65.8	0.0	0.0	66.0	66.0	70	N	-	-	41.0	Y	N	N
N5400	29	94.9	D3-1b	-	25.4	0.0	52.0	30.0	65.7	0.0	0.0	65.9	65.9	70	N	-	-	40.5	Y	N	N
N5400	30	97.7	D3-1b	-	26.1	0.0	51.9	31.2	65.6	0.0	0.0	65.8	65.8	70	N	-	-	39.7	Y	N	N
N5400	31	100.5	D3-1b	-	26.7	0.0	52.0	32.8	65.4	0.0	0.0	65.6	65.6	70	N	-	-	38.9	Y	N	N
N5400	32	103.3	D3-1b	-	27.1	0.0	52.1	34.7	65.3	0.0	0.0	65.5	65.5	70	N	-	-	38.4	Y	N	N
N5406	1	16.5	D3-1b	-	9.6	0.0	48.2	54.8	72.4	0.0	0.0	72.5	72.5	70	Y	-	-	62.4	Y	Y	Y
N5406	2	19.3	D3-1b	-	10.1	0.0	48.7	54.8	72.2	0.0	0.0	72.3	72.3	70	Y	-	-	61.8	Y	Y	Y
N5406	3	22.1	D3-1b	-	10.5	0.0	49.1	54.8	72.1	0.0	0.0	72.2	72.2	70	Y	-	-	61.3	Y	Y	Y
N5406	4	24.9	D3-1b	-	11.0	0.0	49.5	54.8	71.9	0.0	0.0	72.0	72.0	70	Y	-	-	60.7	Y	Y	Y
N5406	5	27.7	D3-1b	-	11.4	0.0	49.8	54.8	71.6	0.0	0.0	71.7	71.7	70	Y	-	-	60.0	Y	Y	Y
N5406	6	30.5	D3-1b	-	11.8	0.0	50.2	54.8	71.4	0.0	0.0	71.5	71.5	70	Y	-	-	59.4	Y	Y	Y
N5406	7	33.3	D3-1b	-	12.3	0.0	50.5	54.8	71.2	0.0	0.0	71.3	71.3	70	Y	-	-	58.8	Y	Y	Y
N5406	8	36.1	D3-1b	-	12.6	0.0	50.7	54.7	71.0	0.0	0.0	71.1	71.1	70	Y	-	-	58.3	Y	Y	Y
N5406	9	38.9	D3-1b	-	13.0	0.0	51.0	54.7	70.7	0.0	0.0	70.9	70.9	70	Y	-	-	57.7	Y	Y	Y
N5406	10	41.7	D3-1b	-	13.4	0.0	51.2	54.7	70.5	0.0	0.0	70.7	70.7	70	Y	-	-	57.1	Y	Y	Y
N5406	11	44.5	D3-1b	-	13.8	0.0	51.2	54.7	70.3	0.0	0.0	70.5	70.5	70	Y	-	-	56.5	Y	Y	Y
N5406	12	47.3	D3-1b	-	14.2	0.0	51.4	54.7	70.1	0.0	0.0	70.3	70.3	70	N	-	-	55.9	Y	N	N
N5406	13	50.1	D3-1b	-	14.6	0.0	51.5	54.7	69.9	0.0	0.0	70.1	70.1	70	N	-	-	55.4	Y	N	N
N5406	14	52.9	D3-1b	-	15.0	0.0	51.6	54.7	69.7	0.0	0.0	69.9	69.9	70	N	-	-	54.8	Y	N	N
N5406	15	55.7	D3-1b	-	15.4	0.0	51.8	54.6	69.5	0.0	0.0	69.7	69.7	70	N	-	-	54.2	Y	N	N
N5406	16	58.5	D3-1b	-	15.9	0.0	51.8	54.6	69.3	0.0	0.0	69.6	69.6	70	N	-	-	53.6	Y	N	N
N5406	17	61.3	D3-1b	-	16.3	0.0	51.9	54.6	69.2	0.0	0.0	69.4	69.4	70	N	-	-	53.0	Y	N	N
N5406	18	64.1	D3-1b	-	16.7	0.0	52.0	54.6	69.0	0.0	0.0	69.2	69.2	70	N	-	-	52.4	Y	N	N
N5406	19	66.9	D3-1b	-	17.2	0.0	52.1	54.6	68.9	0.0	0.0	69.1	69.1	70	N	-	-	51.8	Y	N	N
N5406	20	69.7	D3-1b	-	17.6	0.0	52.1	54.5	68.7	0.0	0.0	69.0	69.0	70	N	-	-	51.3	Y	N	N
N5406	21	72.5	D3-1b	-	18.0	0.0	52.1	54.5	68.5	0.0	0.0	68.8	68.8	70	N	-	-	50.7	Y	N	N
N5406	22	75.3	D3-1b	-	18.4	0.0	52.1	54.5	68.4	0.0	0.0	68.7	68.7	70	N	-	-	50.2	Y	N	N
N5406	23	78.1	D3-1b	-	18.8	0.0	52.2	54.5	68.3	0.0	0.0	68.6	68.6	70	N	-	-	49.7	Y	N	N
N5406	24	80.9	D3-1b	-	19.3	0.0	52.3	54.5	68.1	0.0	0.0	68.4	68.4	70	N	-	-	49.0	Y	N	N
N5406	25	83.7	D3-1b	-	19.8	0.0	52.3	54.5	68.0	0.0	0.0	68.3	68.3	70	N	-	-	48.5	Y	N	N
N5406	26	86.5	D3-1b	-	20.3	0.0	52.4	54.5	67.9	0.0	0.0	68.2	68.2	70	N	-	-	47.9	Y	N	N
N5406	27	89.3	D3-1b	-	20.8	0.0	52.4	54.5	67.7	0.0	0.0	68.1	68.1	70	N	-	-	47.3	Y	N	N
N5406	28	92.1	D3-1b	-	21.3	0.0	52.5	54.5	67.7	0.0	0.0	68.0	68.0	70	N	-	-	46.7	Y	N	N
N5406	29	94.9	D3-1b	-	21.8	0.0	52.6	54.7	67.5	0.0	0.0	67.9	67.9	70	N	-	-	46.1	Y	N	N
N5406	30	97.7	D3-1b	-	22.2	0.0	52.8	54.8	67.4	0.0	0.0	67.8	67.8	70	N	-	-	45.6	Y	N	N
N5406	31	100.5	D3-1b	-	22.8	0.0	53.0	55.1	67.3	0.0	0.0	67.7	67.7	70	N	-	-	44.9	Y	N	N
N5406	32	103.3	D3-1b	-	23.4	0.0	53.3	55.4	67.2	0.0	0.0	67.6	67.6	70	N	-	-	44.2	Y	N	N
N5406	33	106.1	D3-1b	-	24.0	0.0	53.7	55.7	67.1	0.0	0.0	67.6	67.6	70	N	-	-	43.6	Y	N	N
N5409	1	16.5	D3-1b	-	51.0	0.0	0.0	0.0	67.9	0.0	0.0	67.9	68.0	70	N	-	-	17.0	Y	N	N
N5409	2	19.3	D3-1b	-	51.4	0.0	0.0	0.0	67.7	0.0	0.0	67.7	67.8	70	N	-	-	16.4	Y	N	N
N5409	3	22.1	D3-1b	-	51.7	0.0	0.0	0.0	67.5	0.0	0.0	67.5	67.7	70	N	-	-	16.0	Y	N	N
N5409	4	24.9	D3-1b	-	51.8	0.0	0.0	0.0	67.4	0.0	0.0	67.4	67.5	70	N	-	-	15.7	Y	N	N
N5409	5	27.7	D3-1b	-	51.9	0.0	0.0	0.0	67.1	0.0	0.0	67.1	67.2	70	N	-	-	15.3	Y	N	N
N5409	6	30.5	D3-1b	-	51.9	0.0	0.0	0.0	66.9	0.0	0.0	66.9	67.0	70	N	-	-	15.1	Y	N	N
N5409	7	33.3	D3-1b	-	52.0	0.0	0.0	0.0	66.6	0.0	0.0	66.6	66.8	70	N	-	-	14.8	Y	N	N
N5409	8	36.1	D3-1b	-	52.0	0.0	0.0	0.0	66.4	0.0	0.0	66.4	66.6	70	N	-	-	14.6	Y	N	N
N5409	9	38.9	D3-1b	-	51.9	0.0	0.0	0.0	66.2	0.0	0.0	66.2	66.3	70	N	-	-	14.4	Y	N	N
N5409	10	41.7	D3-1b	-	51.9	0.0	0.0	0.0	66.0	0.0	0.0	66.0	66.1	70	N	-	-	14.2	Y	N	N
N5409	11	44.5	D3-1b	-	51.9	0.0	0.0	0.0	65.8	0.0	0.0	65.8	66.0	70	N	-	-	14.1	Y	N	N
N5409	12	47.3	D3-1b	-	51.9	0.0	0.0	0.0	65.5	0.0	0.0	65.5	65.7	70	N	-	-	13.8	Y	N	N
N5409	13	50.1	D3-1b	-	51.9	0.0	0.0	0.0	65.4	0.0	0.0	65.4	65.6	70	N	-	-	13.7	Y	N	N
N5409	14	52.9	D3-1b	-	51.8	0.0	0.0	0.0	65.2	0.0	0.0	65.2	65.4	70	N	-	-	13.6	Y	N	N
N5409	15	55.7	D3-1b	-	51.8	0.0	0.0	0.0	65.0	0.0	0.0	65.0	65.2	70	N	-	-	13.4	Y	N	N
N5409	16	58.5	D3-1b	-	51.8	0.0	0.0	0.0	64.8	0.0	0.0	64.8	65.0	70	N	-	-	13.2	Y	N	N
N5409	17	61.3	D3-1b	-	51.7	0.0	0.0	0.0	64.7	0.0	0.0	64.7	64.9	70	N	-	-	13.2	Y	N	N
N5409	18	64.1	D3-1b	-	51.7	0.0	0.0	0.0	64.5	0.0	0.0	64.5	64.7	70	N	-	-	13.0	Y	N	N
N5409	19	66.9	D3-1b	-	51.7	0.0	0.0	0.0	64.3	0.0	0.0	64.3	64.6	70	N	-	-	12.9	Y	N	N
N5409	20	69.7	D3-1b	-	51.6	0.0	0.0	0.0	64.2	0.0	0.0	64.2	64.4	70	N	-	-	12.8	Y	N	N
N5409	21	72.5	D3-1b	-	51.6	0.0	0.0	0.0	64.1	0.0	0.0	64.1	64.3	70	N	-	-	12.7	Y	N	N
N5409	22	75.3	D3-1b	-	51.6	0.0	0.0	0.0	63.9	0.0	0.0	63.9	64.2	70	N	-	-	12.6	Y	N	N
N5409	23	78.1	D3-1b	-	51.5	0.0	0.0	0.0	63.8	0.0	0.0	63.8	64.0	70	N	-	-	12.5	Y	N	N
N5409	24	80.9	D3-1b	-	51.5	0.0	0.0	0.0	63.7	0.0	0.0	63.7	63.9	70	N	-	-	12.4	Y	N	N
N5409	25	83.7	D3-1b	-	51.5	0.0	0.0	0.0	63.5	0.0	0.0	63.5	63.8	70	N	-	-	12.3	Y	N	N
N5409	26	86.5	D3-1b	-	51.4	0.0	0.0	0.0	63.4	0.0	0.0	63.4	63.7	70	N	-	-	12.3	Y	N	N
N5409	27	89.3	D3-1b	-	51.4	0.0	0.0	0.0	63.3	0.0	0.0	63.3	63.5	70	N	-	-	12.1	Y	N	N
N5409	28	92.1	D3-1b	-	51.3	0.0	0.0	0.0	63.1	0.0	0.0	63.1	63.4	70	N	-	-	12.1	Y	N	N
N5409	29	94.9	D3-1b	-	51.3	0.0	0.0	0.0	63.0	0.0	0.0	63.0	63.3	70	N	-	-	12.0	Y	N	N
N5409	30	97.7	D3-1b	-	51.2	0.0	0.0	0.0	62.9	0.0	0.0	62.9	63.2	70	N	-	-	12.0	Y	N	N
N5409	31	100.5	D3-1b	-	51.2	0.0	0.0	0.0	62.8	0.0	0.0	62.8	63.1	70	N	-	-	11.9	Y	N	N
N5409	32	103.3	D3-1b	-	51.2	0.0	0.0	0.0	62.7	0.0	0.0	62.7	63.0	70	N	-	-	11.8	Y	N	N
R FLNBP1	1	15.5	Residental NSRs	70	66.5	64.4	62.2	33.7	0.0	36.4	0.0	62.2	69.5	70	N	-0.5	N	0.9	N	N	N
R FLNBP1	2	18.5	Residental NSRs	70	66.5	64.4	62.9	34.1	0.0	37.1	0.0	62.9	69.6	70	N	-0.4	N	1.0	Y	N	N
R FLNBP1	3	21.5	Residental NSRs	70	66.5	64.4	63.7	34.6	0.0	37.9	0.0	63.7	69.8	70	N	-0.2	N	1.2	Y	N	N
R KLHSW	1	20.8	Assessed Residential NSRs in Liantang EIA	77.8	63.7	58.5	33.0	0.0	35.8	61.6	0.0	61.6	66.5	70	N	-11.3	N	1.7	Y	N	N
R KLHSW	2	23.8	Assessed Residential NSRs in Liantang EIA	77.9	64.7	59.3	33.4	0.0	35.9	61.8	0.0	61.9	67.3	70	N	-10.6	N	1.5	Y	N	N
R KT1	1	16.7	Assessed Residential NSRs in Liantang EIA	68.9	56.2	62.3	44.2	44.8	41.8	65.8	0.0	65.9	67.8	70	N	-1.1	N	4.5	Y	N	N
R KT2	1	18.4	Assessed Residential NSRs in Liantang EIA	75.9	65.8	58.9	37.0	33.4	35.3	65.6	0.0	65.6	69.1	70	N	-6.8	N	2.5	Y	N	N
R KT2	2	21.4	Assessed Residential NSRs in Liantang EIA	76	65.9	59.9	37.6	34.5	39.2	65.8	0.0	65.8	69.4	70	N	-6.6	N	2.5	Y	N	N
R KT3	1	18.3	Assessed Residential NSRs in Liantang EIA	71.5	62.9	62.0	42.5	38.0	44.2	67.6	0.0	67.6	69.7	70	N	-1.8	N	4.2	Y	N	N
R NWP1	1	23.3	Assessed Residential NSRs in Liantang EIA	67.6	63.0	58.2	0.0	0.0	0.0	55.4	0.0	55.4	64.8	70	N	-2.8	N	0.6	N	N	N
R NWP1	2	26.3	Assessed Residential NSRs in Liantang EIA	68.6	66.3	61.0	0.0	0.0	0.0	57.7	0.0	57.7	67.9	70	N	-0.7	N	0.5	N	N	N
R SR12	1	23.3	Assessed Residential NSRs in Fanling Highway EP	67.6	58.9	56.7	0.0	0.0	0.0	53.8	0.0	53.8	61.7	70	N	-5.9	N	0.8	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]												
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							dB (A)									C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
R SR12	2	26.3	Assessed Residential NSRs in Fanling Highway EP	68.9	62.2	59.7	0.0	0.0	0.0	56.9	0.0	56.9	64.9	70	N	-4.0	N	0.8	N	N	N
R SR12	3	29.3	Assessed Residential NSRs in Fanling Highway EP	71.6	66.9	63.6	0.0	0.0	0.0	59.6	0.0	59.6	69.1	70	N	-2.5	N	0.5	N	N	N
R SR77	1	22.7	Assessed Residential NSRs in Fanling Highway EP	79.9	66.2	54.6	0.0	0.0	0.0	54.8	0.0	54.8	66.8	70	N	-13.1	N	0.3	N	N	N
R SR77	2	25.7	Assessed Residential NSRs in Fanling Highway EP	80.1	67.2	55.1	0.0	0.0	0.0	55.7	0.0	55.7	67.7	70	N	-12.4	N	0.2	N	N	N
R SR77	3	28.7	Assessed Residential NSRs in Fanling Highway EP	80.4	68.5	55.7	0.0	0.0	0.0	57.1	0.0	57.1	69.0	70	N	-11.4	N	0.3	N	N	N
R SR7N	1	21.3	Assessed Residential NSRs in Fanling Highway EP	74.6	59.8	71.9	59.6	52.8	53.0	69.3	0.0	70.0	74.2	70	Y	-0.4	N	2.0	Y	N	Y
R SR7N	2	24.3	Assessed Residential NSRs in Fanling Highway EP	74.8	60.1	72.0	60.1	53.6	53.0	69.6	0.0	70.2	74.4	70	Y	-0.4	N	2.1	Y	N	Y
R SR7N	3	27.3	Assessed Residential NSRs in Fanling Highway EP	75	60.3	72.2	60.6	54.4	53.0	69.7	0.0	70.4	74.6	70	Y	-0.4	N	2.1	Y	N	Y
R TH1	1	26.6	Assessed Residential NSRs in Liantang EIA	68	37.1	57.2	43.1	38.3	33.9	53.5	0.0	54.0	59.0	70	N	-9.0	N	1.8	Y	N	N
R TH1	2	29.6	Assessed Residential NSRs in Liantang EIA	72.2	40.7	60.8	46.8	41.6	37.4	56.5	0.0	57.1	62.3	70	N	-9.9	N	1.5	Y	N	N
R TH2	1	27.4	Assessed Residential NSRs in Liantang EIA	71.2	59.3	62.5	45.5	46.8	33.2	64.9	0.0	65.0	67.7	70	N	-3.5	N	3.5	Y	N	N
R TH2	2	30.4	Assessed Residential NSRs in Liantang EIA	72.1	59.6	63.5	46.8	47.8	35.0	65.7	0.0	65.8	68.4	70	N	-3.7	N	3.4	Y	N	N
R TH4	1	26.3	Assessed Residential NSRs in Liantang EIA	70.9	52.0	61.9	53.6	50.6	50.0	68.7	0.0	69.0	69.8	70	N	-1.1	N	7.5	Y	N	N
R TH4	2	29.3	Assessed Residential NSRs in Liantang EIA	71.4	52.7	62.9	54.2	51.6	50.0	69.4	0.0	69.6	70.5	70	Y	-0.9	N	7.2	Y	N	Y
R TH5	1	22.6	Assessed Residential NSRs in Liantang EIA	74.2	55.2	63.9	57.9	56.1	60.2	74.5	0.0	74.8	75.2	70	Y	1.0	Y	10.8	Y	Y	Y
R TH5	2	25.6	Assessed Residential NSRs in Liantang EIA	74.5	56.4	64.6	58.4	57.2	60.1	75.0	0.0	75.3	75.7	70	Y	1.2	Y	10.5	Y	Y	Y
R TH6	1	18.5	Assessed Residential NSRs in Liantang EIA	74.5	50.3	68.4	57.1	54.5	61.4	73.6	0.0	74.0	75.1	70	Y	0.6	N	6.6	Y	Y	Y
R TH6	2	21.5	Assessed Residential NSRs in Liantang EIA	74.7	50.4	68.5	57.6	55.7	61.4	73.8	0.0	74.2	75.2	70	Y	0.5	N	6.6	Y	Y	Y
R WHS1	1	22.4	Assessed Residential NSRs in Fanling Highway EP	78.4	37.2	44.3	58.9	72.0	61.9	81.7	0.0	82.2	82.2	70	Y	3.8	Y	37.1	Y	Y	Y
R WHS1	2	25.4	Assessed Residential NSRs in Fanling Highway EP	81.9	38.3	46.0	59.4	71.8	62.3	81.9	0.0	82.4	82.4	70	Y	0.5	N	35.7	Y	Y	Y
R4001	1	10.3	Wing Ning Tsuen	60.9	55.2	0.0	54.2	34.0	0.0	0.0	0.0	54.2	57.8	70	N	-3.1	N	2.6	Y	N	N
R4001	2	13.3	Wing Ning Tsuen	61.6	56.2	0.0	55.2	35.1	0.0	0.0	0.0	55.3	58.8	70	N	-2.8	N	2.6	Y	N	N
R4001	3	16.3	Wing Ning Tsuen	62.2	56.9	0.0	56.6	36.4	0.0	0.0	0.0	56.7	59.8	70	N	-2.4	N	2.9	Y	N	N
R4002	1	10.3	Wing Ning Tsuen	62.2	59.1	0.0	54.2	33.4	9.1	0.0	0.0	54.2	60.3	70	N	-1.9	N	1.2	Y	N	N
R4002	2	13.3	Wing Ning Tsuen	63.1	60.2	0.0	55.1	34.5	9.2	0.0	0.0	55.1	61.3	70	N	-1.8	N	1.1	Y	N	N
R4002	3	16.3	Wing Ning Tsuen	63.6	60.9	0.0	56.0	35.9	9.2	0.0	0.0	56.1	62.1	70	N	-1.5	N	1.2	Y	N	N
R4003	1	10.3	Wing Ning Tsuen	62.1	59.3	0.0	54.3	32.7	13.2	0.0	0.0	54.4	60.5	70	N	-1.6	N	1.2	Y	N	N
R4003	2	13.3	Wing Ning Tsuen	62.9	60.4	0.0	55.2	33.9	13.3	0.0	0.0	55.2	61.5	70	N	-1.4	N	1.1	Y	N	N
R4003	3	16.3	Wing Ning Tsuen	63.5	61.1	0.0	56.0	35.2	13.4	0.0	0.0	56.0	62.3	70	N	-1.2	N	1.2	Y	N	N
R4021	1	8.1	Wing Ning Wai	61.6	54.3	0.0	55.8	26.6	14.9	0.0	0.0	55.8	58.1	70	N	-3.5	N	3.8	Y	N	N
R4021	2	11.1	Wing Ning Wai	62.5	56.0	0.0	56.9	29.2	14.7	0.0	0.0	56.9	59.5	70	N	-3.0	N	3.5	Y	N	N
R4021	3	14.1	Wing Ning Wai	63.4	57.4	0.0	58.0	31.6	14.7	0.0	0.0	58.0	60.7	70	N	-2.7	N	3.3	Y	N	N
R4022	1	8.1	Wing Ning Wai	63.2	54.2	0.0	54.2	0.0	14.7	0.0	0.0	54.2	57.2	70	N	-6.0	N	3.0	Y	N	N
R4022	2	11.1	Wing Ning Wai	64.1	55.0	0.0	56.7	0.0	14.8	0.0	0.0	56.7	58.9	70	N	-5.2	N	3.9	Y	N	N
R4022	3	14.1	Wing Ning Wai	65	55.7	0.0	59.3	0.0	14.9	0.0	0.0	59.3	60.9	70	N	-4.1	N	5.2	Y	N	N
R4023	1	8.1	Wing Ning Wai	65.2	62.5	0.0	55.5	10.9	15.9	0.0	0.0	55.5	63.3	70	N	-1.9	N	0.8	N	N	N
R4023	2	11.1	Wing Ning Wai	66.3	63.3	0.0	58.0	11.0	16.0	0.0	0.0	58.0	64.4	70	N	-1.9	N	1.1	Y	N	N
R4023	3	14.1	Wing Ning Wai	67.2	64.1	0.0	60.8	11.0	16.1	0.0	0.0	60.8	65.7	70	N	-1.5	N	1.6	Y	N	N
R4024	1	8.1	Wing Ning Wai	65.4	62.7	0.0	57.0	13.0	16.3	0.0	0.0	57.0	63.7	70	N	-1.7	N	1.0	Y	N	N
R4024	2	11.1	Wing Ning Wai	66.5	63.4	0.0	59.6	13.0	16.3	0.0	0.0	59.6	65.0	70	N	-1.5	N	1.6	Y	N	N
R4024	3	14.1	Wing Ning Wai	67.6	64.3	0.0	62.5	13.4	16.3	0.0	0.0	62.5	66.5	70	N	-1.1	N	2.2	Y	N	N
R4025	1	8.1	Wing Ning Wai	65.8	64.2	0.0	58.1	12.6	16.3	0.0	0.0	58.1	65.1	70	N	-0.7	N	0.9	N	N	N
R4025	2	11.1	Wing Ning Wai	67	64.9	0.0	60.6	12.6	16.3	0.0	0.0	60.6	66.3	70	N	-0.7	N	1.4	Y	N	N
R4025	3	14.1	Wing Ning Wai	68.1	65.8	0.0	63.1	13.6	16.3	0.0	0.0	63.1	67.7	70	N	-0.4	N	1.9	Y	N	N
R4026	1	8.1	Wing Ning Wai	67.4	67.4	0.0	58.5	9.8	16.5	0.0	0.0	58.5	67.9	70	N	0.5	N	0.5	N	N	N
R4026	2	11.1	Wing Ning Wai	68.7	68.3	0.0	60.8	9.7	16.5	0.0	0.0	60.8	69.0	70	N	0.3	N	0.7	N	N	N
R4026	3	14.1	Wing Ning Wai	69.6	69.1	0.0	62.7	10.8	16.5	0.0	0.0	62.7	70.0	70	N	0.4	N	0.9	N	N	N
R4027	1	8.1	Wing Ning Wai	65.4	66.6	0.0	46.8	0.0	13.0	0.0	0.0	46.8	66.7	70	N	1.3	Y	0.1	N	N	N
R4027	2	11.1	Wing Ning Wai	66.3	67.5	0.0	49.5	0.0	13.0	0.0	0.0	49.5	67.5	70	N	1.2	Y	0.0	N	N	N
R4027	3	14.1	Wing Ning Wai	67.1	68.2	0.0	51.3	0.0	13.0	0.0	0.0	51.3	68.3	70	N	1.2	Y	0.1	N	N	N
R4028	1	8.1	Wing Ning Wai	66.3	66.9	0.0	57.0	0.0	12.3	0.0	0.0	57.0	67.4	70	N	1.1	Y	0.5	N	N	N
R4028	2	11.1	Wing Ning Wai	67.5	67.7	0.0	58.7	0.0	12.3	0.0	0.0	58.7	68.2	70	N	0.7	N	0.5	N	N	N
R4028	3	14.1	Wing Ning Wai	68.4	68.4	0.0	60.0	0.0	12.3	0.0	0.0	60.0	69.0	70	N	0.6	N	0.6	N	N	N
R4029	1	8.1	Wing Ning Wai	64.5	65.7	0.0	38.5	0.0	0.0	0.0	0.0	38.5	65.7	70	N	1.2	Y	0.0	N	N	N
R4029	2	11.1	Wing Ning Wai	65.3	66.5	0.0	40.3	0.0	0.0	0.0	0.0	40.3	66.5	70	N	1.2	Y	0.0	N	N	N
R4029	3	14.1	Wing Ning Wai	66	67.2	0.0	42.3	0.0	0.0	0.0	0.0	42.3	67.2	70	N	1.2	Y	0.0	N	N	N
R4041	1	10.1	San Uk Tsuen	70.2	71.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.4	70	Y	1.2	Y	0.0	N	N	Y
R4041	2	13.1	San Uk Tsuen	71.5	72.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.8	70	Y	1.3	Y	0.0	N	N	Y
R4041	3	16.1	San Uk Tsuen	72.4	73.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.6	70	Y	1.2	Y	0.0	N	N	Y
R4042	1	10.1	San Uk Tsuen	70.9	71.9	0.0	59.2	16.6	0.0	0.0	0.0	59.2	72.1	70	Y	1.2	Y	0.2	N	N	Y
R4042	2	13.1	San Uk Tsuen	72.3	73.2	0.0	59.8	17.5	0.0	0.0	0.0	59.8	73.4	70	Y	1.1	Y	0.2	N	N	Y
R4042	3	16.1	San Uk Tsuen	73	73.8	0.0	60.4	18.2	0.0	0.0	0.0	60.4	74.0	70	Y	1.0	Y	0.2	N	N	Y
R4043	1	10.1	San Uk Tsuen	69.8	71.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.1	70	Y	1.3	Y	0.0	N	N	Y
R4043	2	13.1	San Uk Tsuen	71	72.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.2	70	Y	1.2	Y	0.0	N	N	Y
R4043	3	16.1	San Uk Tsuen	71.7	72.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.9	70	Y	1.2	Y	0.0	N	N	Y
R4044	1	10.1	San Uk Tsuen	70.1	70.7	0.0	67.0	31.6	37.6	0.0	0.0	67.0	72.3	70	Y	2.2	Y	1.6	Y	N	Y
R4044	2	13.1	San Uk Tsuen	71.3	71.7	0.0	67.3	33.8	37.6	0.0	0.0	67.3	73.0	70	Y	1.7	Y	1.3	Y	N	Y
R4044	3	16.1	San Uk Tsuen	72	72.3	0.0	67.5	35.3	37.6	0.0	0.0	67.5	73.5	70	Y	1.5	Y	1.2	Y	N	Y
R4045	1	10.1	San Uk Tsuen	63.5	59.9	0.0	67.6	32.4	39.1	0.0	0.0	67.6	68.3	70	N	4.8	Y	8.4	Y	N	N
R4045	2	13.1	San Uk Tsuen	64.9	60.4	0.0	67.8	34.3	39.1	0.0	0.0	67.8	68.5	70	N	3.6	Y	8.1	Y	N	N
R4045	3	16.1	San Uk Tsuen	65.7	60.8	0.0	67.9	35.7	39.1	0.0	0.0	67.9	68.7	70	N	3.0	Y	7.9	Y	N	N
R4046	1	10.1	San Uk Tsuen	59.1	51.3	0.0	67.7	8.3	48.1	0.0	0.0	67.8	67.9	70	N	8.8	Y	16.6	Y	N	N
R4046	2	13.1	San Uk Tsuen	59.8	51.3	0.0	67.9	8.3	48.1	0.0	0.0	67.9	68.0	70	N	8.2	Y	16.7	Y	N	N
R4046	3	16.1	San Uk Tsuen	60.4	51.3	0.0	68.1	8.3	48.1	0.0	0.0	68.1	68.2	70	N	7.8	Y	16.9	Y	N	N
R4047	1	10.1	San Uk Tsuen	59.6	50.0	0.0	68.1	0.0	43.4	0.0	0.0	68.1	68.2	70	N	8.6	Y	18.2	Y	N	N
R4047	2	13.1	San Uk Tsuen	60.3	50.0	0.0	68.3	0.0	43.4	0.0	0.0	68.3	68.3	70	N	8.0	Y	18.3	Y	N	N
R4047	3	16.1	San Uk Tsuen	60.8	50.0	0.0	68.4	0.0	43.4	0.0	0.0	68.5	68.5	70	N	7.7	Y	18.5	Y	N	N
R4063	1	9.1	The Sisters of the Precious Blood Children Village	58.2	59.3	0.0	46.4	0.0	35.0	0.0	0.0	46.7	59.5	70	N	1.3	Y	0.2	N	N	N
R4063	2	12.1	The Sisters of the Precious Blood Children Village	61.6	62.7	0.0	51.2	0.0	44.4	0.0	0.0	52.0	63.1	70	N	1.5	Y	0.4	N	N	N
R4064	1	9.1	The Sisters of the Precious Blood Children Village	49	46.5	0.0	52.9	0.0	34.0	0.0	0.0	53.0	53.8	70	N	4.8	Y	7.3	Y	N	N
R4064	2	12.1	The Sisters of the Precious Blood Children Village	55.1	50.1	0.0	59.1	0.0	47.5	0.0	0.0	59.4	59.9	70	N	4.8	Y	9.8	Y	N	N
R4081	1	9.1	Kan Lung Tsuen	0	0.0	0.0	60.2	0.0	50.5	0.0	0.0	60.7	60.7	70	N	60.7	Y	57.7	Y	N	N
R4081	2	12.1	Kan Lung Tsuen	0	0.0	0.0	60.3	0.0	50.5	0.0	0.0	60.8	60.8	70	N	60.8	Y	57.8	Y	N	N
R4081	3	15.1	Kan Lung Tsuen	0	0.0	0.0	60.5	0.0	50.4	0.0	0.0	60.9	60.9	70	N	60.9	Y	57.9	Y	N	N
R4082	1	9.1	Kan Lung Tsuen	29	-10.0	0.0	61.8	0.0	50.5	0.0	0.0	62.1	62.1	70	N	33.1	Y	61.7	Y	N	N
R4082	2	12.1	Kan Lung Tsuen	30.6	-10.0	0.0	62.1	0.0	50.5	0.0	0.0	62.4	62.4	70	N	31.8	Y	62.0	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
R4082	3	15.1	Kan Lung Tsuen	31.8	-10.0	0.0	62.6	0.0	50.5	0.0	0.0	62.8	62.8	70	N	31.0	Y	62.4	Y	N	N
R4083	1	9.1	Kan Lung Tsuen	39.9	13.8	0.0	61.6	0.0	49.0	0.0	0.0	61.8	61.8	70	N	21.9	Y	47.8	Y	N	N
R4083	2	12.1	Kan Lung Tsuen	41.2	13.8	0.0	61.9	0.0	49.0	0.0	0.0	62.2	62.2	70	N	21.0	Y	48.2	Y	N	N
R4083	3	15.1	Kan Lung Tsuen	42.5	13.8	0.0	62.4	0.0	49.0	0.0	0.0	62.6	62.6	70	N	20.1	Y	48.6	Y	N	N
R4101	1	9.8	Siu Hang Tsuen	0.0	0.0	0.0	54.9	0.0	43.2	0.0	0.0	55.2	55.2	70	N	55.2	Y	52.2	Y	N	N
R4101	2	12.8	Siu Hang Tsuen	0	0.0	0.0	55.1	0.0	43.2	0.0	0.0	55.4	55.4	70	N	55.4	Y	52.4	Y	N	N
R4101	3	15.8	Siu Hang Tsuen	0	0.0	0.0	55.4	0.0	43.2	0.0	0.0	55.7	55.7	70	N	55.7	Y	52.7	Y	N	N
R4102	1	9.8	Siu Hang Tsuen	24.5	0.0	0.0	55.2	0.0	43.8	0.0	0.0	55.5	55.5	70	N	31.0	Y	52.5	Y	N	N
R4102	2	12.8	Siu Hang Tsuen	25.2	0.0	0.0	55.5	0.0	43.8	0.0	0.0	55.8	55.8	70	N	30.6	Y	52.8	Y	N	N
R4102	3	15.8	Siu Hang Tsuen	25.9	0.0	0.0	55.9	0.0	43.8	0.0	0.0	56.1	56.1	70	N	30.2	Y	53.1	Y	N	N
R4103	1	9.8	Siu Hang Tsuen	24.7	0.0	0.0	55.1	0.0	42.9	0.0	0.0	55.4	55.4	70	N	30.7	Y	52.4	Y	N	N
R4103	2	12.8	Siu Hang Tsuen	25.4	0.0	0.0	55.4	0.0	42.9	0.0	0.0	55.7	55.7	70	N	30.3	Y	52.7	Y	N	N
R4103	3	15.8	Siu Hang Tsuen	26.2	0.0	0.0	55.8	0.0	42.9	0.0	0.0	56.0	56.0	70	N	29.8	Y	53.0	Y	N	N
R4121	1	10.5	Siu Hang San Tsuen	32.7	0.0	0.0	55.8	0.0	44.0	0.0	0.0	56.1	56.1	70	N	23.4	Y	53.1	Y	N	N
R4121	2	13.5	Siu Hang San Tsuen	33	0.0	0.0	56.3	0.0	44.0	0.0	0.0	56.5	56.5	70	N	23.5	Y	53.5	Y	N	N
R4121	3	16.5	Siu Hang San Tsuen	33.3	0.0	0.0	56.8	0.0	44.0	0.0	0.0	57.0	57.0	70	N	23.7	Y	54.0	Y	N	N
R4122	1	10.5	Siu Hang San Tsuen	0	0.0	0.0	54.0	0.0	39.7	0.0	0.0	54.2	54.2	70	N	54.2	Y	51.2	Y	N	N
R4122	2	13.5	Siu Hang San Tsuen	0	0.0	0.0	54.5	0.0	39.7	0.0	0.0	54.6	54.6	70	N	54.6	Y	51.6	Y	N	N
R4122	3	16.5	Siu Hang San Tsuen	0	0.0	0.0	55.1	0.0	39.7	0.0	0.0	55.2	55.2	70	N	55.2	Y	52.2	Y	N	N
R4123	1	10.5	Siu Hang San Tsuen	34.5	0.0	0.0	58.2	0.0	46.5	0.0	0.0	58.5	58.5	70	N	24.0	Y	55.5	Y	N	N
R4123	2	13.5	Siu Hang San Tsuen	35	0.0	0.0	58.8	0.0	46.5	0.0	0.0	59.1	59.1	70	N	24.1	Y	56.1	Y	N	N
R4123	3	16.5	Siu Hang San Tsuen	35.5	0.0	0.0	59.5	0.0	46.5	0.0	0.0	59.7	59.7	70	N	24.2	Y	56.7	Y	N	N
R4124	1	10.5	Siu Hang San Tsuen	34.4	0.0	0.0	56.0	0.0	44.3	0.0	0.0	56.3	56.3	70	N	21.9	Y	53.3	Y	N	N
R4124	2	13.5	Siu Hang San Tsuen	34.7	0.0	0.0	56.6	0.0	44.3	0.0	0.0	56.8	56.8	70	N	22.1	Y	53.8	Y	N	N
R4124	3	16.5	Siu Hang San Tsuen	34.8	0.0	0.0	57.3	0.0	44.3	0.0	0.0	57.5	57.5	70	N	22.7	Y	54.5	Y	N	N
R4141	1	7.4	Scattered Village Houses North of Proposed Potential Ecopark	53.2	52.0	0.0	57.3	66.1	57.9	0.0	0.0	67.2	67.3	70	N	14.1	Y	15.3	Y	N	N
R4141	2	10.4	Scattered Village Houses North of Proposed Potential Ecopark	53.2	52.0	0.0	58.1	66.1	57.9	0.0	0.0	67.3	67.4	70	N	14.2	Y	15.4	Y	N	N
R4142	1	7.4	Scattered Village Houses North of Proposed Potential Ecopark	52.2	42.4	0.0	0.0	66.2	57.3	0.0	0.0	66.7	66.7	70	N	14.5	Y	24.3	Y	N	N
R4142	2	10.4	Scattered Village Houses North of Proposed Potential Ecopark	52.2	42.5	0.0	0.0	66.2	57.3	0.0	0.0	66.7	66.7	70	N	14.5	Y	24.2	Y	N	N
R4143	1	7.4	Scattered Village Houses North of Proposed Potential Ecopark	52.8	44.9	0.0	0.0	65.6	56.1	0.0	0.0	66.1	66.1	70	N	13.3	Y	21.2	Y	N	N
R4143	2	10.4	Scattered Village Houses North of Proposed Potential Ecopark	52.8	45.1	0.0	0.0	65.6	56.1	0.0	0.0	66.1	66.1	70	N	13.3	Y	21.0	Y	N	N
R4151	1	6.0	Scattered Village Houses North of Proposed Potential Ecopark	54.1	49.9	0.0	59.8	65.8	58.3	0.0	0.0	67.4	67.4	70	N	13.3	Y	17.5	Y	N	N
R4151	2	9.0	Scattered Village Houses North of Proposed Potential Ecopark	54.1	49.9	0.0	61.3	65.8	58.6	0.0	0.0	67.7	67.8	70	N	13.7	Y	17.9	Y	N	N
R4152	1	6.0	Scattered Village Houses North of Proposed Potential Ecopark	49.9	50.9	0.0	63.3	62.6	57.9	0.0	0.0	66.6	66.7	70	N	16.8	Y	15.8	Y	N	N
R4152	2	9.0	Scattered Village Houses North of Proposed Potential Ecopark	49.9	50.9	0.0	64.9	62.6	58.2	0.0	0.0	67.5	67.6	70	N	17.7	Y	16.7	Y	N	N
R4153	1	6.0	Scattered Village Houses North of Proposed Potential Ecopark	50.7	53.2	0.0	62.8	58.2	56.6	0.0	0.0	64.8	65.1	70	N	14.4	Y	11.9	Y	N	N
R4153	2	9.0	Scattered Village Houses North of Proposed Potential Ecopark	50.8	53.3	0.0	64.3	58.2	56.7	0.0	0.0	65.8	66.1	70	N	15.3	Y	12.8	Y	N	N
R4154	1	6.0	Scattered Village Houses North of Proposed Potential Ecopark	42.6	20.2	0.0	59.5	53.6	55.0	0.0	0.0	61.6	61.6	70	N	19.0	Y	41.4	Y	N	N
R4154	2	9.0	Scattered Village Houses North of Proposed Potential Ecopark	42.7	20.2	0.0	61.6	53.6	55.0	0.0	0.0	63.0	63.0	70	N	20.3	Y	42.8	Y	N	N
R4421	1	26.5	Belair Monte	62.2	55.3	0.0	55.5	0.0	23.5	0.0	0.0	55.5	58.4	70	N	-3.8	N	3.1	Y	N	N
R4421	2	29.5	Belair Monte	65.7	58.5	0.0	60.1	0.0	23.5	0.0	0.0	60.1	62.4	70	N	-3.3	N	3.9	Y	N	N
R4421	3	32.5	Belair Monte	66.9	62.9	0.0	61.8	0.0	23.5	0.0	0.0	61.8	65.4	70	N	-1.5	N	2.5	Y	N	N
R4421	4	35.5	Belair Monte	67.9	66.6	0.0	62.5	0.0	23.5	0.0	0.0	62.5	68.0	70	N	0.1	N	1.4	Y	N	N
R4421	5	38.5	Belair Monte	69	68.2	0.0	62.7	0.0	23.5	0.0	0.0	62.7	69.2	70	N	0.2	N	1.0	Y	N	N
R4421	6	41.5	Belair Monte	69.6	68.8	0.0	62.8	0.0	23.5	0.0	0.0	62.8	69.7	70	N	0.1	N	0.9	N	N	N
R4421	7	44.5	Belair Monte	70.1	69.0	0.0	62.8	0.0	23.5	0.0	0.0	62.8	69.9	70	N	-0.2	N	0.9	N	N	N
R4421	8	47.5	Belair Monte	70.4	69.0	0.0	62.9	0.0	23.5	0.0	0.0	62.9	70.0	70	N	-0.4	N	1.0	Y	N	N
R4421	9	50.5	Belair Monte	70.5	69.0	0.0	62.9	0.0	23.5	0.0	0.0	62.9	70.0	70	N	-0.5	N	1.0	Y	N	N
R4421	10	53.5	Belair Monte	70.6	68.9	0.0	62.9	0.0	23.6	0.0	0.0	62.9	69.9	70	N	-0.7	N	1.0	Y	N	N
R4421	11	56.5	Belair Monte	70.6	68.8	0.0	63.0	0.0	23.6	0.0	0.0	63.0	69.8	70	N	-0.8	N	1.0	Y	N	N
R4421	12	59.5	Belair Monte	70.6	68.8	0.0	63.0	0.0	23.7	0.0	0.0	63.0	69.8	70	N	-0.8	N	1.0	Y	N	N
R4421	13	62.5	Belair Monte	70.5	68.7	0.0	63.0	0.0	23.8	0.0	0.0	63.0	69.7	70	N	-0.8	N	1.0	Y	N	N
R4421	14	65.5	Belair Monte	70.4	68.5	0.0	63.0	0.0	24.0	0.0	0.0	63.0	69.6	70	N	-0.8	N	1.1	Y	N	N
R4421	15	68.5	Belair Monte	70.3	68.4	0.0	63.0	0.0	24.2	0.0	0.0	63.0	69.5	70	N	-0.8	N	1.1	Y	N	N
R4421	16	71.5	Belair Monte	70.2	68.3	0.0	63.1	0.0	24.5	0.0	0.0	63.1	69.5	70	N	-0.7	N	1.2	Y	N	N
R4421	17	74.5	Belair Monte	70.1	68.3	0.0	63.1	0.0	24.9	0.0	0.0	63.1	69.4	70	N	-0.7	N	1.1	Y	N	N
R4421	18	77.5	Belair Monte	70	68.2	0.0	63.1	0.0	25.4	0.0	0.0	63.1	69.4	70	N	-0.6	N	1.2	Y	N	N
R4421	19	80.5	Belair Monte	69.9	68.2	0.0	63.3	0.0	26.0	0.0	0.0	63.3	69.4	70	N	-0.5	N	1.2	Y	N	N
R4421	20	83.5	Belair Monte	69.8	68.2	0.0	63.5	0.0	26.7	0.0	0.0	63.5	69.4	70	N	-0.4	N	1.2	Y	N	N
R4421	21	86.5	Belair Monte	69.7	68.2	0.0	63.8	0.0	27.4	0.0	0.0	63.8	69.5	70	N	-0.2	N	1.3	Y	N	N
R4421	22	89.5	Belair Monte	69.6	68.2	0.0	64.1	0.0	28.2	0.0	0.0	64.1	69.6	70	N	0.0	N	1.4	Y	N	N
R4421	23	92.5	Belair Monte	69.5	68.2	0.0	64.5	0.0	29.0	0.0	0.0	64.5	69.7	70	N	0.2	N	1.5	Y	N	N
R4421	24	95.5	Belair Monte	69.4	68.1	0.0	64.7	0.0	29.9	0.0	0.0	64.7	69.8	70	N	0.4	N	1.7	Y	N	N
R4421	25	98.5	Belair Monte	69.3	68.0	0.0	65.0	0.0	30.8	0.0	0.0	65.0	69.8	70	N	0.5	N	1.8	Y	N	N
R4421	26	101.5	Belair Monte	69.2	68.0	0.0	65.2	0.0	31.8	0.0	0.0	65.2	69.8	70	N	0.6	N	1.8	Y	N	N
R4421	27	104.5	Belair Monte	69.2	67.9	0.0	65.3	0.0	32.8	0.0	0.0	65.3	69.8	70	N	0.6	N	1.9	Y	N	N
R4421	28	107.5	Belair Monte	69.1	67.8	0.0	65.4	0.0	33.9	0.0	0.0	65.4	69.8	70	N	0.7	N	2.0	Y	N	N
R4421	29	110.5	Belair Monte	69	67.7	0.0	65.5	0.0	35.1	0.0	0.0	65.5	69.7	70	N	0.7	N	2.0	Y	N	N
R4421	30	113.5	Belair Monte	68.9	67.6	0.0	65.6	0.0	36.4	0.0	0.0	65.6	69.7	70	N	0.8	N	2.1	Y	N	N
R4422	1	26.5	Belair Monte	59.4	50.1	0.0	48.7	17.5	0.0	0.0	0.0	48.7	52.5	70	N	-6.9	N	2.4	Y	N	N
R4422	2	29.5	Belair Monte	63.5	52.1	0.0	52.1	17.5	0.0	0.0	0.0	52.1	55.1	70	N	-8.4	N	3.0	Y	N	N
R4422	3	32.5	Belair Monte	64.9	54.6	0.0	55.5	17.5	0.0	0.0	0.0	55.5	58.1	70	N	-6.8	N	3.5	Y	N	N
R4422	4	35.5	Belair Monte	65.9	57.4	0.0	58.3	17.5	0.0	0.0	0.0	58.3	60.8	70	N	-5.1	N	3.4	Y	N	N
R4422	5	38.5	Belair Monte	66.7	59.8	0.0	59.5	17.6	0.0	0.0	0.0	59.5	62.6	70	N	-4.1	N	2.8	Y	N	N
R4422	6	41.5	Belair Monte	67	61.6	0.0	59.9	17.6	0.0	0.0	0.0	59.9	63.8	70	N	-3.2	N	2.2	Y	N	N
R4422	7	44.5	Belair Monte	67.3	62.7	0.0	59.9	17.6	0.0	0.0	0.0	59.9	64.5	70	N	-2.8	N	1.8	Y	N	N
R4422	8	47.5	Belair Monte	67.5	63.3	0.0	59.9	17.6	0.0	0.0	0.0	59.9	64.9	70	N	-2.6	N	1.6	Y	N	N
R4422	9	50.5	Belair Monte	67.7	63.7	0.0	59.8	17.6	0.0	0.0	0.0	59.8	65.2	70	N	-2.5	N	1.5	Y	N	N
R4422	10	53.5	Belair Monte	67.8	64.0	0.0	59.9	17.5	0.0	0.0	0.0	59.9	65.4	70	N	-2.4	N	1.4	Y	N	N
R4422	11	56.5	Belair Monte	67.9	64.1	0.0	59.8	17.5	0.0	0.0	0.0	59.8	65.5	70	N	-2.4	N	1.4	Y	N	N
R4422	12	59.5	Belair Monte	68	64.3	0.0	59.8	17.5	0.0	0.0	0.0	59.8	65.6	70	N	-2.4	N	1.3	Y	N	N
R4422	13	62.5	Belair Monte	68.1	64.4	0.0	59.7	17.5	0.0	0.0	0.0	59.7	65.7	70	N	-2.4	N	1.3	Y	N	N
R4422	14	65.5	Belair Monte	68.3	64.5	0.0	59.7	17.7	0.0	0.0	0.0	59.7	65.8	70	N	-2.5	N	1.3	Y	N	N
R4422	15	68.5	Belair Monte	68.3	64.7	0.0	59.7	17.8	0.0	0.0	0.0	59.7	65.9	70	N	-2.4	N	1.2	Y	N	N
R4422	16	71.5	Belair Monte	68.4	64.8	0.0	59.7	17.9	0.0	0.0	0.0	59.7	66.0	70	N	-2.4	N	1.2	Y	N	N
R4422	17	74.5	Belair Monte	68.4	64.9	0.0	59.7	18.1	0.0	0.0	0.0	59.7	66.1	70	N	-2.3	N	1.2	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

				WITHOUT PROJECT	WITH PROJECT														
Assessment Point			Location	Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	New Roads[2]					New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
R4422	18	77.5	Belair Monte	68.4	65.1	0.0	59.7	18.3	0.0	0.0	0.0	59.7	66.2	70	N	-2.2	N	1.1	Y	N	N
R4422	19	80.5	Belair Monte	68.4	65.3	0.0	59.8	18.4	0.0	0.0	0.0	59.8	66.4	70	N	-2.0	N	1.1	Y	N	N
R4422	20	83.5	Belair Monte	68.4	65.5	0.0	59.9	18.6	0.0	0.0	0.0	59.9	66.6	70	N	-1.8	N	1.1	Y	N	N
R4422	21	86.5	Belair Monte	68.4	65.7	0.0	60.1	18.8	0.0	0.0	0.0	60.1	66.7	70	N	-1.7	N	1.0	Y	N	N
R4422	22	89.5	Belair Monte	68.4	65.8	0.0	60.5	19.0	0.0	0.0	0.0	60.5	66.9	70	N	-1.5	N	1.1	Y	N	N
R4422	23	92.5	Belair Monte	68.4	65.9	0.0	60.9	19.2	0.0	0.0	0.0	60.9	67.1	70	N	-1.3	N	1.2	Y	N	N
R4422	24	95.5	Belair Monte	68.4	65.9	0.0	61.3	19.5	0.0	0.0	0.0	61.3	67.2	70	N	-1.2	N	1.3	Y	N	N
R4422	25	98.5	Belair Monte	68.3	65.9	0.0	61.7	19.8	0.0	0.0	0.0	61.7	67.3	70	N	-1.0	N	1.4	Y	N	N
R4422	26	101.5	Belair Monte	68.3	65.9	0.0	62.0	20.0	0.0	0.0	0.0	62.0	67.4	70	N	-0.9	N	1.5	Y	N	N
R4422	27	104.5	Belair Monte	68.2	65.8	0.0	62.4	20.3	0.0	0.0	0.0	62.4	67.5	70	N	-0.7	N	1.7	Y	N	N
R4422	28	107.5	Belair Monte	68.2	65.8	0.0	62.7	20.6	0.0	0.0	0.0	62.7	67.5	70	N	-0.7	N	1.7	Y	N	N
R4422	29	110.5	Belair Monte	68.1	65.8	0.0	62.9	20.9	0.0	0.0	0.0	62.9	67.6	70	N	-0.5	N	1.8	Y	N	N
R4422	30	113.5	Belair Monte	68	65.7	0.0	63.1	21.2	0.0	0.0	0.0	63.1	67.6	70	N	-0.4	N	1.9	Y	N	N
R4423	1	26.5	Belair Monte	53	49.5	0.0	47.9	34.4	0.0	0.0	0.0	48.1	51.8	70	N	-1.2	N	2.3	Y	N	N
R4423	2	29.5	Belair Monte	55.8	51.3	0.0	49.0	37.7	0.0	0.0	0.0	49.4	53.4	70	N	-2.4	N	2.1	Y	N	N
R4423	3	32.5	Belair Monte	59.5	53.5	0.0	49.7	42.1	0.0	0.0	0.0	50.4	55.2	70	N	-4.3	N	1.7	Y	N	N
R4423	4	35.5	Belair Monte	62.7	56.3	0.0	50.3	44.6	0.0	0.0	0.0	51.3	57.5	70	N	-5.2	N	1.2	Y	N	N
R4423	5	38.5	Belair Monte	63.9	58.7	0.0	51.2	46.2	0.0	0.0	0.0	52.4	59.6	70	N	-4.3	N	0.9	N	N	N
R4423	6	41.5	Belair Monte	64.6	60.5	0.0	52.0	47.4	0.0	0.0	0.0	53.3	61.2	70	N	-3.4	N	0.7	N	N	N
R4423	7	44.5	Belair Monte	65.2	61.3	0.0	52.5	47.8	0.0	0.0	0.0	53.8	62.0	70	N	-3.2	N	0.7	N	N	N
R4423	8	47.5	Belair Monte	65.6	62.1	0.0	52.9	47.9	0.0	0.0	0.0	54.1	62.7	70	N	-2.9	N	0.6	N	N	N
R4423	9	50.5	Belair Monte	65.6	62.6	0.0	53.1	47.9	0.0	0.0	0.0	54.3	63.2	70	N	-2.4	N	0.6	N	N	N
R4423	10	53.5	Belair Monte	65.7	62.8	0.0	53.3	47.9	0.0	0.0	0.0	54.4	63.4	70	N	-2.3	N	0.6	N	N	N
R4423	11	56.5	Belair Monte	65.7	62.9	0.0	53.5	47.8	0.0	0.0	0.0	54.5	63.5	70	N	-2.2	N	0.6	N	N	N
R4423	12	59.5	Belair Monte	65.7	63.1	0.0	53.6	47.7	0.0	0.0	0.0	54.6	63.6	70	N	-2.1	N	0.5	N	N	N
R4423	13	62.5	Belair Monte	65.8	63.1	0.0	53.7	47.7	0.0	0.0	0.0	54.7	63.7	70	N	-2.1	N	0.6	N	N	N
R4423	14	65.5	Belair Monte	65.9	63.3	0.0	53.9	47.6	0.0	0.0	0.0	54.8	63.9	70	N	-2.0	N	0.6	N	N	N
R4423	15	68.5	Belair Monte	65.9	63.4	0.0	54.0	47.5	0.0	0.0	0.0	54.9	64.0	70	N	-1.9	N	0.6	N	N	N
R4423	16	71.5	Belair Monte	66	63.5	0.0	54.1	47.5	0.0	0.0	0.0	54.9	64.0	70	N	-2.0	N	0.5	N	N	N
R4423	17	74.5	Belair Monte	66	63.5	0.0	54.2	47.4	0.0	0.0	0.0	55.0	64.1	70	N	-1.9	N	0.6	N	N	N
R4423	18	77.5	Belair Monte	66	63.5	0.0	54.3	47.3	0.0	0.0	0.0	55.1	64.1	70	N	-1.9	N	0.6	N	N	N
R4423	19	80.5	Belair Monte	66	63.6	0.0	54.3	47.3	0.0	0.0	0.0	55.1	64.2	70	N	-1.8	N	0.6	N	N	N
R4423	20	83.5	Belair Monte	66	63.6	0.0	54.4	47.2	0.0	0.0	0.0	55.2	64.2	70	N	-1.8	N	0.6	N	N	N
R4423	21	86.5	Belair Monte	66	63.7	0.0	54.5	47.1	0.0	0.0	0.0	55.2	64.2	70	N	-1.8	N	0.5	N	N	N
R4423	22	89.5	Belair Monte	66.1	63.8	0.0	54.5	47.0	0.0	0.0	0.0	55.2	64.4	70	N	-1.7	N	0.6	N	N	N
R4423	23	92.5	Belair Monte	66.1	63.9	0.0	54.6	47.0	0.0	0.0	0.0	55.3	64.5	70	N	-1.6	N	0.6	N	N	N
R4423	24	95.5	Belair Monte	66	64.0	0.0	54.6	46.9	0.0	0.0	0.0	55.3	64.5	70	N	-1.5	N	0.5	N	N	N
R4423	25	98.5	Belair Monte	66	64.1	0.0	54.7	46.8	0.0	0.0	0.0	55.3	64.6	70	N	-1.4	N	0.5	N	N	N
R4423	26	101.5	Belair Monte	66	64.1	0.0	54.7	46.7	0.0	0.0	0.0	55.3	64.7	70	N	-1.3	N	0.6	N	N	N
R4423	27	104.5	Belair Monte	65.9	64.2	0.0	54.7	46.7	0.0	0.0	0.0	55.4	64.8	70	N	-1.1	N	0.6	N	N	N
R4423	28	107.5	Belair Monte	65.9	64.3	0.0	54.8	46.6	0.0	0.0	0.0	55.4	64.8	70	N	-1.1	N	0.5	N	N	N
R4423	29	110.5	Belair Monte	65.9	64.3	0.0	54.8	46.5	0.0	0.0	0.0	55.4	64.8	70	N	-1.1	N	0.5	N	N	N
R4423	30	113.5	Belair Monte	65.8	64.3	0.0	54.8	46.4	0.0	0.0	0.0	55.4	64.8	70	N	-1.0	N	0.5	N	N	N
R4424	1	26.5	Belair Monte	63.3	61.9	0.0	32.8	0.0	57.6	0.0	0.0	57.6	63.2	70	N	-0.1	N	1.3	Y	N	N
R4424	2	29.5	Belair Monte	69	68.1	0.0	34.8	0.0	60.8	0.0	0.0	60.8	68.9	70	N	-0.1	N	0.8	N	N	N
R4424	3	32.5	Belair Monte	71.1	70.5	0.0	36.2	0.0	60.7	0.0	0.0	60.7	70.9	70	Y	-0.2	N	0.4	N	N	N
R4424	4	35.5	Belair Monte	71.3	70.7	0.0	37.0	0.0	60.5	0.0	0.0	60.5	71.1	70	Y	-0.2	N	0.4	N	N	N
R4424	5	38.5	Belair Monte	71.3	70.6	0.0	37.4	0.0	60.3	0.0	0.0	60.3	71.0	70	Y	-0.3	N	0.4	N	N	N
R4424	6	41.5	Belair Monte	71.1	70.5	0.0	37.7	0.0	60.1	0.0	0.0	60.2	70.9	70	Y	-0.2	N	0.4	N	N	N
R4424	7	44.5	Belair Monte	71	70.4	0.0	37.7	0.0	59.9	0.0	0.0	60.0	70.8	70	Y	-0.2	N	0.4	N	N	N
R4424	8	47.5	Belair Monte	70.8	70.2	0.0	37.8	0.0	59.8	0.0	0.0	59.8	70.6	70	Y	-0.2	N	0.4	N	N	N
R4424	9	50.5	Belair Monte	70.7	70.1	0.0	37.8	0.0	59.6	0.0	0.0	59.6	70.4	70	N	-0.3	N	0.3	N	N	N
R4424	10	53.5	Belair Monte	70.5	69.9	0.0	37.9	0.0	59.4	0.0	0.0	59.4	70.3	70	N	-0.2	N	0.4	N	N	N
R4424	11	56.5	Belair Monte	70.4	69.7	0.0	38.0	0.0	59.3	0.0	0.0	59.3	70.1	70	N	-0.3	N	0.4	N	N	N
R4424	12	59.5	Belair Monte	70.2	69.6	0.0	38.1	0.0	59.1	0.0	0.0	59.1	70.0	70	N	-0.2	N	0.4	N	N	N
R4424	13	62.5	Belair Monte	70.1	69.5	0.0	38.1	0.0	58.9	0.0	0.0	59.0	69.8	70	N	-0.3	N	0.3	N	N	N
R4424	14	65.5	Belair Monte	70	69.3	0.0	38.3	0.0	58.8	0.0	0.0	58.8	69.7	70	N	-0.3	N	0.4	N	N	N
R4424	15	68.5	Belair Monte	69.8	69.2	0.0	38.3	0.0	58.7	0.0	0.0	58.7	69.6	70	N	-0.2	N	0.4	N	N	N
R4424	16	71.5	Belair Monte	69.7	69.0	0.0	38.4	0.0	58.5	0.0	0.0	58.6	69.4	70	N	-0.3	N	0.4	N	N	N
R4424	17	74.5	Belair Monte	69.6	68.9	0.0	38.5	0.0	58.4	0.0	0.0	58.4	69.3	70	N	-0.3	N	0.4	N	N	N
R4424	18	77.5	Belair Monte	69.4	68.8	0.0	38.6	0.0	58.2	0.0	0.0	58.3	69.1	70	N	-0.3	N	0.3	N	N	N
R4424	19	80.5	Belair Monte	69.3	68.6	0.0	38.7	0.0	58.1	0.0	0.0	58.2	69.0	70	N	-0.3	N	0.4	N	N	N
R4424	20	83.5	Belair Monte	69.1	68.5	0.0	38.7	0.0	58.0	0.0	0.0	58.0	68.9	70	N	-0.2	N	0.4	N	N	N
R4424	21	86.5	Belair Monte	69	68.4	0.0	38.8	0.0	57.9	0.0	0.0	57.9	68.8	70	N	-0.2	N	0.4	N	N	N
R4424	22	89.5	Belair Monte	68.9	68.3	0.0	38.9	0.0	57.8	0.0	0.0	57.8	68.6	70	N	-0.3	N	0.3	N	N	N
R4424	23	92.5	Belair Monte	68.8	68.1	0.0	39.0	0.0	57.6	0.0	0.0	57.7	68.5	70	N	-0.3	N	0.4	N	N	N
R4424	24	95.5	Belair Monte	68.7	68.0	0.0	39.2	0.0	57.5	0.0	0.0	57.6	68.4	70	N	-0.3	N	0.4	N	N	N
R4424	25	98.5	Belair Monte	68.6	67.9	0.0	39.3	0.0	57.4	0.0	0.0	57.5	68.3	70	N	-0.3	N	0.4	N	N	N
R4424	26	101.5	Belair Monte	68.5	67.8	0.0	39.4	0.0	57.3	0.0	0.0	57.4	68.2	70	N	-0.3	N	0.4	N	N	N
R4424	27	104.5	Belair Monte	68.4	67.7	0.0	39.6	0.0	57.2	0.0	0.0	57.3	68.1	70	N	-0.3	N	0.4	N	N	N
R4424	28	107.5	Belair Monte	68.3	67.6	0.0	39.8	0.0	57.1	0.0	0.0	57.2	68.0	70	N	-0.3	N	0.4	N	N	N
R4424	29	110.5	Belair Monte	68.2	67.5	0.0	40.0	0.0	57.1	0.0	0.0	57.1	67.8	70	N	-0.4	N	0.3	N	N	N
R4424	30	113.5	Belair Monte	68.1	67.4	0.0	40.3	0.0	57.0	0.0	0.0	57.1	67.8	70	N	-0.3	N	0.4	N	N	N
R4425	1	26.5	Belair Monte	63.2	61.8	0.0	39.0	0.0	58.5	0.0	0.0	58.6	63.5	70	N	0.3	N	1.7	Y	N	N
R4425	2	29.5	Belair Monte	68.4	67.9	0.0	41.2	0.0	61.0	0.0	0.0	61.1	68.7	70	N	0.3	N	0.8	N	N	N
R4425	3	32.5	Belair Monte	70.2	69.9	0.0	42.3	0.0	61.0	0.0	0.0	61.0	70.5	70	Y	0.3	N	0.6	N	N	N
R4425	4	35.5	Belair Monte	70.7	70.4	0.0	42.8	0.0	60.9	0.0	0.0	61.0	70.9	70	Y	0.2	N	0.5	N	N	N
R4425	5	38.5	Belair Monte	70.7	70.5	0.0	42.9	0.0	60.8	0.0	0.0	60.9	71.0	70	Y	0.3	N	0.5	N	N	N
R4425	6	41.5	Belair Monte	70.6	70.4	0.0	43.1	0.0	60.7	0.0	0.0	60.8	70.8	70	Y	0.2	N	0.4	N	N	N
R4425	7	44.5	Belair Monte	70.4	70.2	0.0	43.1	0.0	60.6	0.0	0.0	60.7	70.7	70	Y	0.3	N	0.5	N	N	N
R4425	8	47.5	Belair Monte	70.2	70.0	0.0	43.1	0.0	60.5	0.0	0.0	60.6	70.5	70	Y	0.3	N	0.5	N	N	N
R4425	9	50.5	Belair Monte	70.1	69.8	0.0	43.2	0.0	60.4	0.0	0.0	60.5	70.3	70	N	0.2	N	0.5	N	N	N
R4425	10	53.5	Belair Monte	69.9	69.6	0.0	43.3	0.0	60.3	0.0	0.0	60.4	70.1	70	N	0.2	N	0.5	N	N	N
R4425	11	56.5	Belair Monte	69.7	69.5	0.0	43.4	0.0	60.2	0.0	0.0	60.3	70.0	70	N	0.3	N	0.5	N	N	N
R4425	12	59.5	Belair Monte	69.6	69.3	0.0	43.5	0.0	60.1	0.0	0.0	60.2	69.8	70	N	0.2	N	0.5	N	N	N
R4425	13	62.5	Belair Monte	69.4	69.1	0.0	43.5	0.0	60.0	0.0	0.0	60.1	69.6	70	N	0.2	N	0.5	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
R4425	14	65.5	Belair Monte	69.2	68.9	0.0	43.6	0.0	59.9	0.0	0.0	60.0	69.5	70	N	0.3	N	0.6	N	N	N
R4425	15	68.5	Belair Monte	69.1	68.8	0.0	43.6	0.0	59.8	0.0	0.0	59.9	69.3	70	N	0.2	N	0.5	N	N	N
R4425	16	71.5	Belair Monte	68.9	68.6	0.0	43.7	0.0	59.7	0.0	0.0	59.8	69.2	70	N	0.3	N	0.6	N	N	N
R4425	17	74.5	Belair Monte	68.8	68.5	0.0	43.7	0.0	59.6	0.0	0.0	59.7	69.0	70	N	0.2	N	0.5	N	N	N
R4425	18	77.5	Belair Monte	68.6	68.3	0.0	43.8	0.0	59.4	0.0	0.0	59.6	68.8	70	N	0.2	N	0.5	N	N	N
R4425	19	80.5	Belair Monte	68.5	68.2	0.0	43.9	0.0	59.3	0.0	0.0	59.5	68.7	70	N	0.2	N	0.5	N	N	N
R4425	20	83.5	Belair Monte	68.3	68.0	0.0	43.9	0.0	59.2	0.0	0.0	59.4	68.6	70	N	0.3	N	0.6	N	N	N
R4425	21	86.5	Belair Monte	68.2	67.9	0.0	43.9	0.0	59.1	0.0	0.0	59.3	68.5	70	N	0.3	N	0.6	N	N	N
R4425	22	89.5	Belair Monte	68.1	67.8	0.0	44.0	0.0	59.0	0.0	0.0	59.2	68.3	70	N	0.2	N	0.5	N	N	N
R4425	23	92.5	Belair Monte	67.9	67.6	0.0	44.1	0.0	59.0	0.0	0.0	59.1	68.2	70	N	0.3	N	0.6	N	N	N
R4425	24	95.5	Belair Monte	67.8	67.5	0.0	44.2	0.0	58.8	0.0	0.0	59.0	68.1	70	N	0.3	N	0.6	N	N	N
R4425	25	98.5	Belair Monte	67.7	67.4	0.0	44.3	0.0	58.8	0.0	0.0	58.9	68.0	70	N	0.3	N	0.6	N	N	N
R4425	26	101.5	Belair Monte	67.6	67.3	0.0	44.5	0.0	58.7	0.0	0.0	58.8	67.8	70	N	0.2	N	0.5	N	N	N
R4425	27	104.5	Belair Monte	67.5	67.2	0.0	44.6	0.0	58.6	0.0	0.0	58.8	67.7	70	N	0.2	N	0.5	N	N	N
R4425	28	107.5	Belair Monte	67.3	67.0	0.0	44.8	0.0	58.6	0.0	0.0	58.7	67.6	70	N	0.3	N	0.6	N	N	N
R4425	29	110.5	Belair Monte	67.3	66.9	0.0	45.1	0.0	58.5	0.0	0.0	58.7	67.6	70	N	0.3	N	0.7	N	N	N
R4425	30	113.5	Belair Monte	67.2	66.8	0.0	45.4	0.0	58.5	0.0	0.0	58.7	67.5	70	N	0.3	N	0.7	N	N	N
R4426	1	26.5	Belair Monte	58.1	58.1	0.0	48.3	0.0	49.1	0.0	0.0	51.7	59.0	70	N	0.9	N	0.9	N	N	N
R4426	2	29.5	Belair Monte	61.4	61.0	0.0	51.4	0.0	54.0	0.0	0.0	55.9	62.2	70	N	0.8	N	1.2	Y	N	N
R4426	3	32.5	Belair Monte	64.5	64.5	0.0	52.4	0.0	54.2	0.0	0.0	56.4	65.2	70	N	0.7	N	0.7	N	N	N
R4426	4	35.5	Belair Monte	66.5	66.7	0.0	52.7	0.0	54.2	0.0	0.0	56.5	67.1	70	N	0.6	N	0.4	N	N	N
R4426	5	38.5	Belair Monte	67.7	67.9	0.0	52.8	0.0	54.2	0.0	0.0	56.5	68.2	70	N	0.5	N	0.3	N	N	N
R4426	6	41.5	Belair Monte	68.3	68.4	0.0	52.8	0.0	54.1	0.0	0.0	56.5	68.7	70	N	0.4	N	0.3	N	N	N
R4426	7	44.5	Belair Monte	68.5	68.5	0.0	52.8	0.0	54.0	0.0	0.0	56.4	68.8	70	N	0.3	N	0.3	N	N	N
R4426	8	47.5	Belair Monte	68.4	68.5	0.0	52.8	0.0	54.0	0.0	0.0	56.4	68.7	70	N	0.3	N	0.2	N	N	N
R4426	9	50.5	Belair Monte	68.3	68.4	0.0	52.9	0.0	53.9	0.0	0.0	56.4	68.6	70	N	0.3	N	0.2	N	N	N
R4426	10	53.5	Belair Monte	68.2	68.2	0.0	52.9	0.0	53.8	0.0	0.0	56.4	68.5	70	N	0.3	N	0.3	N	N	N
R4426	11	56.5	Belair Monte	68.1	68.1	0.0	52.9	0.0	53.7	0.0	0.0	56.3	68.4	70	N	0.3	N	0.3	N	N	N
R4426	12	59.5	Belair Monte	68	67.9	0.0	52.9	0.0	53.6	0.0	0.0	56.3	68.2	70	N	0.2	N	0.3	N	N	N
R4426	13	62.5	Belair Monte	67.8	67.8	0.0	52.9	0.0	53.6	0.0	0.0	56.3	68.1	70	N	0.3	N	0.3	N	N	N
R4426	14	65.5	Belair Monte	67.7	67.6	0.0	52.9	0.0	53.5	0.0	0.0	56.2	67.9	70	N	0.2	N	0.3	N	N	N
R4426	15	68.5	Belair Monte	67.6	67.5	0.0	52.9	0.0	53.4	0.0	0.0	56.2	67.8	70	N	0.2	N	0.3	N	N	N
R4426	16	71.5	Belair Monte	67.5	67.4	0.0	53.0	0.0	53.3	0.0	0.0	56.1	67.7	70	N	0.2	N	0.3	N	N	N
R4426	17	74.5	Belair Monte	67.4	67.2	0.0	53.0	0.0	53.2	0.0	0.0	56.1	67.6	70	N	0.2	N	0.4	N	N	N
R4426	18	77.5	Belair Monte	67.3	67.1	0.0	53.0	0.0	53.1	0.0	0.0	56.1	67.5	70	N	0.2	N	0.4	N	N	N
R4426	19	80.5	Belair Monte	67.2	67.0	0.0	53.0	0.0	53.0	0.0	0.0	56.0	67.3	70	N	0.1	N	0.3	N	N	N
R4426	20	83.5	Belair Monte	67	66.9	0.0	53.0	0.0	53.0	0.0	0.0	56.0	67.2	70	N	0.2	N	0.3	N	N	N
R4426	21	86.5	Belair Monte	67	66.8	0.0	53.1	0.0	52.9	0.0	0.0	56.0	67.1	70	N	0.1	N	0.3	N	N	N
R4426	22	89.5	Belair Monte	66.8	66.7	0.0	53.1	0.0	52.8	0.0	0.0	56.0	67.0	70	N	0.2	N	0.3	N	N	N
R4426	23	92.5	Belair Monte	66.8	66.6	0.0	53.1	0.0	52.8	0.0	0.0	56.0	67.0	70	N	0.2	N	0.4	N	N	N
R4426	24	95.5	Belair Monte	66.6	66.5	0.0	53.2	0.0	52.7	0.0	0.0	56.0	66.9	70	N	0.3	N	0.4	N	N	N
R4426	25	98.5	Belair Monte	66.5	66.5	0.0	53.3	0.0	52.6	0.0	0.0	56.0	66.8	70	N	0.3	N	0.3	N	N	N
R4426	26	101.5	Belair Monte	66.5	66.4	0.0	53.3	0.0	52.6	0.0	0.0	56.0	66.8	70	N	0.3	N	0.4	N	N	N
R4426	27	104.5	Belair Monte	66.4	66.3	0.0	53.5	0.0	52.6	0.0	0.0	56.0	66.7	70	N	0.3	N	0.4	N	N	N
R4426	28	107.5	Belair Monte	66.3	66.3	0.0	53.6	0.0	52.6	0.0	0.0	56.1	66.7	70	N	0.4	N	0.4	N	N	N
R4426	29	110.5	Belair Monte	66.2	66.3	0.0	53.8	0.0	52.6	0.0	0.0	56.2	66.7	70	N	0.5	N	0.4	N	N	N
R4426	30	113.5	Belair Monte	66.1	66.3	0.0	53.9	0.0	52.7	0.0	0.0	56.4	66.7	70	N	0.6	N	0.4	N	N	N
R4427	1	26.5	Belair Monte	58.8	53.0	0.0	50.1	0.0	26.3	0.0	0.0	50.1	54.8	70	N	-4.0	N	1.8	Y	N	N
R4427	2	29.5	Belair Monte	62.4	55.4	0.0	54.5	0.0	26.3	0.0	0.0	54.5	58.0	70	N	-4.4	N	2.6	Y	N	N
R4427	3	32.5	Belair Monte	63.9	58.5	0.0	56.2	0.0	26.3	0.0	0.0	56.2	60.5	70	N	-3.4	N	2.0	Y	N	N
R4427	4	35.5	Belair Monte	65.3	62.4	0.0	57.1	0.0	26.3	0.0	0.0	57.2	63.5	70	N	-1.8	N	1.1	Y	N	N
R4427	5	38.5	Belair Monte	66.7	65.3	0.0	58.0	0.0	26.3	0.0	0.0	58.0	66.0	70	N	-0.7	N	0.7	N	N	N
R4427	6	41.5	Belair Monte	67.5	66.8	0.0	58.4	0.0	26.2	0.0	0.0	58.4	67.4	70	N	-0.1	N	0.6	N	N	N
R4427	7	44.5	Belair Monte	68.1	67.8	0.0	58.6	0.0	26.2	0.0	0.0	58.6	68.3	70	N	0.2	N	0.5	N	N	N
R4427	8	47.5	Belair Monte	68.6	68.2	0.0	58.7	0.0	26.2	0.0	0.0	58.7	68.6	70	N	0.0	N	0.4	N	N	N
R4427	9	50.5	Belair Monte	69	68.3	0.0	58.8	0.0	26.2	0.0	0.0	58.8	68.7	70	N	-0.3	N	0.4	N	N	N
R4427	10	53.5	Belair Monte	69.1	68.3	0.0	58.8	0.0	26.2	0.0	0.0	58.8	68.7	70	N	-0.4	N	0.4	N	N	N
R4427	11	56.5	Belair Monte	69.2	68.2	0.0	58.8	0.0	26.2	0.0	0.0	58.8	68.7	70	N	-0.5	N	0.5	N	N	N
R4427	12	59.5	Belair Monte	69.2	68.1	0.0	58.8	0.0	26.3	0.0	0.0	58.8	68.6	70	N	-0.6	N	0.5	N	N	N
R4427	13	62.5	Belair Monte	69.3	68.0	0.0	58.9	0.0	26.4	0.0	0.0	58.9	68.5	70	N	-0.8	N	0.5	N	N	N
R4427	14	65.5	Belair Monte	69.2	67.9	0.0	58.9	0.0	26.5	0.0	0.0	58.9	68.4	70	N	-0.8	N	0.5	N	N	N
R4427	15	68.5	Belair Monte	69.2	67.9	0.0	58.9	0.0	26.7	0.0	0.0	58.9	68.4	70	N	-0.8	N	0.5	N	N	N
R4427	16	71.5	Belair Monte	69.1	67.8	0.0	59.0	0.0	27.0	0.0	0.0	59.0	68.3	70	N	-0.8	N	0.5	N	N	N
R4427	17	74.5	Belair Monte	69	67.7	0.0	59.0	0.0	27.4	0.0	0.0	59.0	68.3	70	N	-0.7	N	0.6	N	N	N
R4427	18	77.5	Belair Monte	68.9	67.7	0.0	59.1	0.0	28.0	0.0	0.0	59.1	68.2	70	N	-0.7	N	0.5	N	N	N
R4427	19	80.5	Belair Monte	68.9	67.7	0.0	59.1	0.0	28.7	0.0	0.0	59.1	68.2	70	N	-0.7	N	0.5	N	N	N
R4427	20	83.5	Belair Monte	68.8	67.6	0.0	59.2	0.0	29.5	0.0	0.0	59.2	68.2	70	N	-0.6	N	0.6	N	N	N
R4427	21	86.5	Belair Monte	68.7	67.6	0.0	59.3	0.0	30.3	0.0	0.0	59.3	68.2	70	N	-0.5	N	0.6	N	N	N
R4427	22	89.5	Belair Monte	68.6	67.6	0.0	59.4	0.0	31.3	0.0	0.0	59.4	68.2	70	N	-0.4	N	0.6	N	N	N
R4427	23	92.5	Belair Monte	68.5	67.5	0.0	59.6	0.0	32.4	0.0	0.0	59.6	68.2	70	N	-0.3	N	0.7	N	N	N
R4427	24	95.5	Belair Monte	68.4	67.4	0.0	59.8	0.0	33.4	0.0	0.0	59.8	68.1	70	N	-0.3	N	0.7	N	N	N
R4427	25	98.5	Belair Monte	68.3	67.5	0.0	60.0	0.0	34.6	0.0	0.0	60.0	68.2	70	N	-0.1	N	0.7	N	N	N
R4427	26	101.5	Belair Monte	68.3	67.5	0.0	60.2	0.0	35.7	0.0	0.0	60.2	68.2	70	N	-0.1	N	0.7	N	N	N
R4427	27	104.5	Belair Monte	68.2	67.4	0.0	60.4	0.0	37.0	0.0	0.0	60.4	68.2	70	N	0.0	N	0.8	N	N	N
R4427	28	107.5	Belair Monte	68.1	67.4	0.0	60.6	0.0	38.3	0.0	0.0	60.7	68.2	70	N	0.1	N	0.8	N	N	N
R4427	29	110.5	Belair Monte	68	67.3	0.0	60.9	0.0	39.9	0.0	0.0	60.9	68.2	70	N	0.2	N	0.9	N	N	N
R4427	30	113.5	Belair Monte	67.9	67.2	0.0	61.1	0.0	42.0	0.0	0.0	61.2	68.2	70	N	0.3	N	1.0	Y	N	N
R4431	1	26.4	Green Code	77.2	74.6	0.0	69.1	40.1	0.0	0.0	0.0	69.1	75.7	70	Y	-1.5	N	1.1	Y	N	Y
R4431	2	34.0	Green Code	78.3	76.1	0.0	69.9	41.1	0.0	0.0	0.0	69.9	77.0	70	Y	-1.3	N	0.9	N	N	N
R4431	3	37.1	Green Code	78.1	75.8	0.0	69.8	41.1	0.0	0.0	0.0	69.8	76.8	70	Y	-1.3	N	1.0	Y	N	Y
R4431	4	40.2	Green Code	77.7	75.5	0.0	69.7	41.3	0.0	0.0	0.0	69.7	76.5	70	Y	-1.2	N	1.0	Y	N	Y
R4431	5	43.3	Green Code	77.5	75.2	0.0	69.7	41.5	0.0	0.0	0.0	69.7	76.3	70	Y	-1.2	N	1.1	Y	N	Y
R4431	6	46.4	Green Code	77.2	74.9	0.0	69.6	41.7	0.0	0.0	0.0	69.6	76.0	70	Y	-1.2	N	1.1	Y	N	Y
R4431	7	49.5	Green Code	76.9	74.6	0.0	69.5	41.8	0.0	0.0	0.0	69.5	75.8	70	Y	-1.1	N	1.2	Y	N	Y
R4431	8	52.6	Green Code	76.7	74.4	0.0	69.4	41.9	0.0	0.0	0.0	69.4	75.6	70	Y	-1.1	N	1.2	Y	N	Y
R4431	9	55.7	Green Code	76.5	74.2	0.0	69.3	42.0	0.0	0.0	0.0	69.3	75.4	70	Y	-1.1	N	1.2	Y	N	Y

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]												
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							dB (A)									C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
R4431	10	58.8	Green Code	76.2	73.9	0.0	69.2	42.1	0.0	0.0	0.0	69.2	75.2	70	Y	-1.0	N	1.3	Y	N	Y
R4431	11	61.9	Green Code	76	73.7	0.0	69.1	42.1	0.0	0.0	0.0	69.1	75.0	70	Y	-1.0	N	1.3	Y	N	Y
R4431	12	65.0	Green Code	75.7	73.6	0.0	69.0	42.1	0.0	0.0	0.0	69.1	74.9	70	Y	-0.8	N	1.3	Y	N	Y
R4431	13	68.1	Green Code	75.6	73.4	0.0	69.0	42.0	0.0	0.0	0.0	69.0	74.7	70	Y	-0.9	N	1.3	Y	N	Y
R4431	14	71.2	Green Code	75.4	73.2	0.0	68.9	42.1	0.0	0.0	0.0	68.9	74.5	70	Y	-0.9	N	1.3	Y	N	Y
R4431	15	74.3	Green Code	75.2	73.0	0.0	68.8	42.1	0.0	0.0	0.0	68.8	74.4	70	Y	-0.8	N	1.4	Y	N	Y
R4431	16	77.4	Green Code	75	72.8	0.0	68.7	42.1	0.0	0.0	0.0	68.7	74.2	70	Y	-0.8	N	1.4	Y	N	Y
R4431	17	80.5	Green Code	74.8	72.7	0.0	68.7	42.1	0.0	0.0	0.0	68.7	74.1	70	Y	-0.7	N	1.4	Y	N	Y
R4431	18	83.6	Green Code	74.7	72.5	0.0	68.6	42.1	0.0	0.0	0.0	68.6	74.0	70	Y	-0.7	N	1.5	Y	N	Y
R4431	19	86.7	Green Code	74.5	72.3	0.0	68.6	42.0	0.0	0.0	0.0	68.6	73.8	70	Y	-0.7	N	1.5	Y	N	Y
R4431	20	89.8	Green Code	74.3	72.1	0.0	68.6	42.1	0.0	0.0	0.0	68.6	73.7	70	Y	-0.6	N	1.6	Y	N	Y
R4431	21	92.9	Green Code	74.2	72.0	0.0	68.6	42.1	0.0	0.0	0.0	68.6	73.6	70	Y	-0.6	N	1.6	Y	N	Y
R4431	22	96.0	Green Code	74	71.8	0.0	68.6	42.1	0.0	0.0	0.0	68.6	73.5	70	Y	-0.5	N	1.7	Y	N	Y
R4431	23	99.1	Green Code	73.9	71.7	0.0	68.6	42.1	0.0	0.0	0.0	68.6	73.4	70	Y	-0.5	N	1.7	Y	N	Y
R4431	24	102.2	Green Code	73.7	71.6	0.0	68.6	42.0	0.0	0.0	0.0	68.6	73.3	70	Y	-0.4	N	1.7	Y	N	Y
R4431	25	105.3	Green Code	73.6	71.4	0.0	68.6	42.0	0.0	0.0	0.0	68.6	73.3	70	Y	-0.3	N	1.9	Y	N	Y
R4431	26	108.4	Green Code	73.4	71.3	0.0	68.6	42.0	0.0	0.0	0.0	68.7	73.2	70	Y	-0.2	N	1.9	Y	N	Y
R4431	27	111.5	Green Code	73.4	71.2	0.0	68.7	42.1	0.0	0.0	0.0	68.7	73.1	70	Y	-0.3	N	1.9	Y	N	Y
R4431	28	114.6	Green Code	73.3	71.1	0.0	68.7	42.0	0.0	0.0	0.0	68.7	73.0	70	Y	-0.3	N	1.9	Y	N	Y
R4431	29	117.7	Green Code	73.2	71.0	0.0	68.7	42.0	0.0	0.0	0.0	68.7	73.0	70	Y	-0.2	N	2.0	Y	N	Y
R4432	1	26.4	Green Code	77.5	75.6	0.0	62.9	45.5	0.0	0.0	0.0	63.0	75.8	70	Y	-1.7	N	0.2	N	N	N
R4432	2	34.0	Green Code	78.3	76.4	0.0	63.9	46.8	0.0	0.0	0.0	64.0	76.6	70	Y	-1.7	N	0.2	N	N	N
R4432	3	37.1	Green Code	78	76.1	0.0	63.9	47.0	0.0	0.0	0.0	64.0	76.4	70	Y	-1.6	N	0.3	N	N	N
R4432	4	40.2	Green Code	77.7	75.8	0.0	63.8	47.1	0.0	0.0	0.0	63.9	76.1	70	Y	-1.6	N	0.3	N	N	N
R4432	5	43.3	Green Code	77.4	75.5	0.0	63.8	47.2	0.0	0.0	0.0	63.9	75.8	70	Y	-1.6	N	0.3	N	N	N
R4432	6	46.4	Green Code	77.1	75.3	0.0	63.7	47.2	0.0	0.0	0.0	63.8	75.6	70	Y	-1.5	N	0.3	N	N	N
R4432	7	49.5	Green Code	76.9	75.0	0.0	63.7	47.2	0.0	0.0	0.0	63.8	75.3	70	Y	-1.6	N	0.3	N	N	N
R4432	8	52.6	Green Code	76.6	74.7	0.0	63.6	47.2	0.0	0.0	0.0	63.7	75.1	70	Y	-1.5	N	0.4	N	N	N
R4432	9	55.7	Green Code	76.4	74.5	0.0	63.6	47.1	0.0	0.0	0.0	63.7	74.8	70	Y	-1.6	N	0.3	N	N	N
R4432	10	58.8	Green Code	76.2	74.3	0.0	63.5	47.1	0.0	0.0	0.0	63.6	74.6	70	Y	-1.6	N	0.3	N	N	N
R4432	11	61.9	Green Code	75.9	74.0	0.0	63.5	47.1	0.0	0.0	0.0	63.6	74.4	70	Y	-1.5	N	0.4	N	N	N
R4432	12	65.0	Green Code	75.7	73.8	0.0	63.4	47.1	0.0	0.0	0.0	63.5	74.2	70	Y	-1.5	N	0.4	N	N	N
R4432	13	68.1	Green Code	75.5	73.6	0.0	63.4	47.0	0.0	0.0	0.0	63.5	74.0	70	Y	-1.5	N	0.4	N	N	N
R4432	14	71.2	Green Code	75.3	73.4	0.0	63.4	47.0	0.0	0.0	0.0	63.5	73.8	70	Y	-1.5	N	0.4	N	N	N
R4432	15	74.3	Green Code	75.1	73.2	0.0	63.3	47.0	0.0	0.0	0.0	63.4	73.7	70	Y	-1.4	N	0.5	N	N	N
R4432	16	77.4	Green Code	74.9	73.0	0.0	63.3	46.9	0.0	0.0	0.0	63.4	73.5	70	Y	-1.4	N	0.5	N	N	N
R4432	17	80.5	Green Code	74.7	72.9	0.0	63.4	46.9	0.0	0.0	0.0	63.5	73.4	70	Y	-1.3	N	0.5	N	N	N
R4432	18	83.6	Green Code	74.6	72.7	0.0	63.5	46.8	0.0	0.0	0.0	63.6	73.2	70	Y	-1.4	N	0.5	N	N	N
R4432	19	86.7	Green Code	74.5	72.6	0.0	63.6	46.8	0.0	0.0	0.0	63.7	73.1	70	Y	-1.4	N	0.5	N	N	N
R4432	20	89.8	Green Code	74.3	72.4	0.0	63.7	46.8	0.0	0.0	0.0	63.8	73.0	70	Y	-1.3	N	0.6	N	N	N
R4432	21	92.9	Green Code	74.2	72.2	0.0	63.9	46.7	0.0	0.0	0.0	63.9	72.8	70	Y	-1.4	N	0.6	N	N	N
R4432	22	96.0	Green Code	74	72.1	0.0	64.1	46.8	0.0	0.0	0.0	64.2	72.7	70	Y	-1.3	N	0.6	N	N	N
R4432	23	99.1	Green Code	73.9	72.0	0.0	64.3	46.7	0.0	0.0	0.0	64.4	72.7	70	Y	-1.2	N	0.7	N	N	N
R4432	24	102.2	Green Code	73.7	71.8	0.0	64.5	46.7	0.0	0.0	0.0	64.6	72.6	70	Y	-1.1	N	0.8	N	N	N
R4432	25	105.3	Green Code	73.6	71.7	0.0	64.6	46.7	0.0	0.0	0.0	64.7	72.5	70	Y	-1.1	N	0.8	N	N	N
R4432	26	108.4	Green Code	73.4	71.5	0.0	64.7	46.7	0.0	0.0	0.0	64.7	72.4	70	Y	-1.0	N	0.9	N	N	N
R4432	27	111.5	Green Code	73.3	71.4	0.0	64.7	46.8	0.0	0.0	0.0	64.8	72.3	70	Y	-1.0	N	0.9	N	N	N
R4432	28	114.6	Green Code	73.2	71.3	0.0	64.8	46.8	0.0	0.0	0.0	64.8	72.2	70	Y	-1.0	N	0.9	N	N	N
R4432	29	117.7	Green Code	73.1	71.2	0.0	64.9	47.0	0.0	0.0	0.0	64.9	72.1	70	Y	-1.0	N	0.9	N	N	N
R4433	1	26.4	Green Code	77.8	76.0	0.0	60.5	49.9	0.0	0.0	0.0	60.9	76.2	70	Y	-1.6	N	0.2	N	N	N
R4433	2	34.0	Green Code	78.3	76.5	0.0	61.6	50.3	0.0	0.0	0.0	61.9	76.7	70	Y	-1.6	N	0.2	N	N	N
R4433	3	37.1	Green Code	78.1	76.2	0.0	61.6	50.3	0.0	0.0	0.0	62.0	76.4	70	Y	-1.7	N	0.2	N	N	N
R4433	4	40.2	Green Code	77.7	76.0	0.0	61.7	50.2	0.0	0.0	0.0	62.0	76.1	70	Y	-1.6	N	0.1	N	N	N
R4433	5	43.3	Green Code	77.5	75.7	0.0	61.8	50.2	0.0	0.0	0.0	62.1	75.8	70	Y	-1.7	N	0.1	N	N	N
R4433	6	46.4	Green Code	77.2	75.4	0.0	61.8	50.2	0.0	0.0	0.0	62.1	75.6	70	Y	-1.6	N	0.2	N	N	N
R4433	7	49.5	Green Code	76.9	75.1	0.0	61.8	50.1	0.0	0.0	0.0	62.1	75.3	70	Y	-1.6	N	0.2	N	N	N
R4433	8	52.6	Green Code	76.7	74.9	0.0	61.8	50.1	0.0	0.0	0.0	62.1	75.1	70	Y	-1.6	N	0.2	N	N	N
R4433	9	55.7	Green Code	76.5	74.6	0.0	61.8	50.0	0.0	0.0	0.0	62.1	74.9	70	Y	-1.6	N	0.3	N	N	N
R4433	10	58.8	Green Code	76.2	74.4	0.0	61.9	50.0	0.0	0.0	0.0	62.1	74.7	70	Y	-1.5	N	0.3	N	N	N
R4433	11	61.9	Green Code	76	74.2	0.0	61.9	49.9	0.0	0.0	0.0	62.2	74.5	70	Y	-1.5	N	0.3	N	N	N
R4433	12	65.0	Green Code	75.8	74.0	0.0	61.9	49.8	0.0	0.0	0.0	62.1	74.3	70	Y	-1.5	N	0.3	N	N	N
R4433	13	68.1	Green Code	75.6	73.8	0.0	61.9	49.8	0.0	0.0	0.0	62.1	74.1	70	Y	-1.5	N	0.3	N	N	N
R4433	14	71.2	Green Code	75.4	73.6	0.0	61.9	49.7	0.0	0.0	0.0	62.1	73.9	70	Y	-1.5	N	0.3	N	N	N
R4433	15	74.3	Green Code	75.2	73.4	0.0	61.9	49.7	0.0	0.0	0.0	62.2	73.7	70	Y	-1.5	N	0.3	N	N	N
R4433	16	77.4	Green Code	75	73.2	0.0	62.0	49.6	0.0	0.0	0.0	62.2	73.5	70	Y	-1.5	N	0.3	N	N	N
R4433	17	80.5	Green Code	74.8	73.1	0.0	62.0	49.5	0.0	0.0	0.0	62.3	73.4	70	Y	-1.4	N	0.3	N	N	N
R4433	18	83.6	Green Code	74.7	72.9	0.0	62.1	49.5	0.0	0.0	0.0	62.4	73.2	70	Y	-1.5	N	0.3	N	N	N
R4433	19	86.7	Green Code	74.5	72.7	0.0	62.3	49.4	0.0	0.0	0.0	62.5	73.1	70	Y	-1.4	N	0.4	N	N	N
R4433	20	89.8	Green Code	74.3	72.5	0.0	62.4	49.3	0.0	0.0	0.0	62.6	73.0	70	Y	-1.3	N	0.5	N	N	N
R4433	21	92.9	Green Code	74.2	72.4	0.0	62.5	49.3	0.0	0.0	0.0	62.7	72.8	70	Y	-1.4	N	0.4	N	N	N
R4433	22	96.0	Green Code	74	72.2	0.0	62.6	49.2	0.0	0.0	0.0	62.8	72.7	70	Y	-1.3	N	0.5	N	N	N
R4433	23	99.1	Green Code	73.9	72.1	0.0	62.8	49.1	0.0	0.0	0.0	63.0	72.6	70	Y	-1.3	N	0.5	N	N	N
R4433	24	102.2	Green Code	73.7	71.9	0.0	63.0	49.1	0.0	0.0	0.0	63.2	72.5	70	Y	-1.2	N	0.6	N	N	N
R4433	25	105.3	Green Code	73.6	71.8	0.0	63.2	49.1	0.0	0.0	0.0	63.4	72.4	70	Y	-1.2	N	0.6	N	N	N
R4433	26	108.4	Green Code	73.5	71.7	0.0	63.5	49.1	0.0	0.0	0.0	63.6	72.3	70	Y	-1.2	N	0.6	N	N	N
R4433	27	111.5	Green Code	73.4	71.6	0.0	63.7	49.1	0.0	0.0	0.0	63.8	72.2	70	Y	-1.2	N	0.6	N	N	N
R4433	28	114.6	Green Code	73.3	71.5	0.0	63.9	49.0	0.0	0.0	0.0	64.0	72.2	70	Y	-1.1	N	0.7	N	N	N
R4433	29	117.7	Green Code	73.2	71.4	0.0	64.0	48.9	0.0	0.0	0.0	64.2	72.1	70	Y	-1.1	N	0.7	N	N	N
R4541	1	10.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	65.8	52.4	0.0	65.3	44.7	3.2	0.0	0.0	65.4	65.6	70	N	-0.2	N	13.2	Y	N	N
R4541	2	13.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	66.9	55.1	0.0	68.5	49.7	3.2	0.0	0.0	68.6	68.8	70	N	1.9	Y	13.7	Y	N	N
R4541	3	16.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	67.4	58.3	0.0	71.6	54.1	3.2	0.0	0.0	71.7	71.9	70	Y	4.5	Y	13.6	Y	Y	Y
R4542	1	10.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	62.1	43.8	0.0	59.8	0.0	0.0	0.0	0.0	59.8	60.0	70	N	-2.1	N	16.2	Y	N	N
R4542	2	13.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	63.1	47.3	0.0	62.4	0.0	0.0	0.0	0.0	62.4	62.5	70	N	-0.6	N	15.2	Y	N	N
R4542	3	16.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	63.6	50.5	0.0	64.9	0.0	0.0	0.0	0.0	64.9	65.0	70	N	1.4	Y	14.5	Y	N	N
R4543	1	10.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	63	58.3	0.0	62.0	49.6	0.0	0.0	0.0	62.3	63.7	70	N	0.7	N	5.4	Y	N	N
R4543	2	13.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	63.3	58.3	0.0	63.2	49.8	0.0	0.0	0.0	63.4	64.6	70	N	1.3	Y	6.3	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT											Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							New Roads[2]														
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
							dB (A)														
R4543	3	16.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	63.5	58.4	0.0	64.6	50.0	0.0	0.0	0.0	64.8	65.7	70	N	2.2	Y	7.3	Y	N	N
R4544	1	10.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	52.2	51.1	0.0	57.6	0.0	0.0	0.0	0.0	57.6	58.5	70	N	6.3	Y	7.4	Y	N	N
R4544	2	13.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	52.3	51.1	0.0	58.5	0.0	0.0	0.0	0.0	58.5	59.3	70	N	7.0	Y	8.2	Y	N	N
R4544	3	16.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	52.3	51.1	0.0	59.6	0.0	0.0	0.0	0.0	59.6	60.1	70	N	7.8	Y	9.0	Y	N	N
R4551	1	10.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	51.1	49.9	0.0	59.5	0.0	0.0	0.0	0.0	59.5	60.0	70	N	8.9	Y	10.1	Y	N	N
R4551	2	13.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	51.1	49.9	0.0	61.3	0.0	0.0	0.0	0.0	61.3	61.6	70	N	10.5	Y	11.7	Y	N	N
R4551	3	16.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	51.1	50.0	0.0	63.5	0.0	0.0	0.0	0.0	63.5	63.7	70	N	12.6	Y	13.7	Y	N	N
R4561	1	10.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	62.1	53.1	0.0	59.9	37.2	0.0	0.0	0.0	60.0	60.8	70	N	-1.3	N	7.7	Y	N	N
R4561	2	13.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	62.9	55.1	0.0	61.2	38.7	0.0	0.0	0.0	61.2	62.2	70	N	-0.7	N	7.1	Y	N	N
R4561	3	16.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	63.4	57.2	0.0	62.3	40.6	0.0	0.0	0.0	62.3	63.5	70	N	0.1	N	6.3	Y	N	N
R4562	1	10.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	63	57.3	0.0	59.9	37.1	0.0	0.0	0.0	60.0	61.8	70	N	-1.2	N	4.5	Y	N	N
R4562	2	13.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	63.9	58.7	0.0	61.3	38.7	0.0	0.0	0.0	61.3	63.2	70	N	-0.7	N	4.5	Y	N	N
R4562	3	16.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	64.4	60.0	0.0	62.4	40.7	0.0	0.0	0.0	62.4	64.4	70	N	0.0	N	4.4	Y	N	N
R4563	1	10.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	61.5	57.6	0.0	53.6	0.0	0.0	0.0	0.0	53.6	59.0	70	N	-2.5	N	1.4	Y	N	N
R4563	2	13.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	62.2	58.7	0.0	55.6	0.0	0.0	0.0	0.0	55.6	60.4	70	N	-1.8	N	1.7	Y	N	N
R4563	3	16.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	62.7	59.4	0.0	57.1	0.0	0.0	0.0	0.0	57.1	61.4	70	N	-1.3	N	2.0	Y	N	N
R4564	1	10.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	61.6	57.7	0.0	54.9	32.2	0.0	0.0	0.0	54.9	59.5	70	N	-2.1	N	1.8	Y	N	N
R4564	2	13.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	62.4	58.7	0.0	56.3	33.7	0.0	0.0	0.0	56.3	60.6	70	N	-1.8	N	1.9	Y	N	N
R4564	3	16.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	62.9	59.3	0.0	58.0	35.6	0.0	0.0	0.0	58.0	61.7	70	N	-1.2	N	2.4	Y	N	N
R4581	1	10.7	Ma Wat Tsuen	53.6	0.0	0.0	57.4	41.2	0.0	0.0	0.0	57.5	57.5	70	N	3.9	Y	54.5	Y	N	N
R4581	2	13.7	Ma Wat Tsuen	53.9	0.0	0.0	57.9	41.3	0.0	0.0	0.0	58.0	58.0	70	N	4.1	Y	55.0	Y	N	N
R4581	3	16.7	Ma Wat Tsuen	54.1	0.0	0.0	58.4	41.6	0.0	0.0	0.0	58.5	58.5	70	N	4.4	Y	55.5	Y	N	N
R4582	1	10.7	Ma Wat Tsuen	50.8	35.0	0.0	57.6	40.8	0.0	0.0	0.0	57.7	57.8	70	N	7.0	Y	22.8	Y	N	N
R4582	2	13.7	Ma Wat Tsuen	54.1	41.0	0.0	58.9	41.1	0.0	0.0	0.0	59.0	59.0	70	N	4.9	Y	18.0	Y	N	N
R4582	3	16.7	Ma Wat Tsuen	55.1	43.6	0.0	59.7	41.4	0.0	0.0	0.0	59.7	59.8	70	N	4.7	Y	16.2	Y	N	N
R4583	1	10.7	Ma Wat Tsuen	49	32.5	0.0	53.2	30.0	0.0	0.0	0.0	53.2	53.3	70	N	4.3	Y	20.8	Y	N	N
R4583	2	13.7	Ma Wat Tsuen	50.4	34.4	0.0	54.1	31.6	0.0	0.0	0.0	54.2	54.2	70	N	3.8	Y	19.8	Y	N	N
R4583	3	16.7	Ma Wat Tsuen	51.7	36.3	0.0	55.1	33.5	0.0	0.0	0.0	55.1	55.2	70	N	3.5	Y	18.9	Y	N	N
R4584	1	10.7	Ma Wat Tsuen	42.1	29.6	0.0	51.6	32.9	0.0	0.0	0.0	51.6	51.6	70	N	9.5	Y	22.0	Y	N	N
R4584	2	13.7	Ma Wat Tsuen	44	31.3	0.0	52.3	34.9	0.0	0.0	0.0	52.4	52.4	70	N	8.4	Y	21.1	Y	N	N
R4584	3	16.7	Ma Wat Tsuen	46.1	33.5	0.0	53.0	37.2	0.0	0.0	0.0	53.1	53.2	70	N	7.1	Y	19.7	Y	N	N
R4601	1	14.0	Scattered Village Houses at Ma Wat Wai	50.5	37.5	0.0	58.0	41.6	0.0	0.0	0.0	58.1	58.1	70	N	7.6	Y	20.6	Y	N	N
R4601	2	17.0	Scattered Village Houses at Ma Wat Wai	50.8	39.7	0.0	58.5	41.8	0.0	0.0	0.0	58.6	58.6	70	N	7.8	Y	18.9	Y	N	N
R4601	3	20.0	Scattered Village Houses at Ma Wat Wai	51	41.7	0.0	59.0	42.1	0.0	0.0	0.0	59.1	59.2	70	N	8.2	Y	17.5	Y	N	N
R4602	1	14.0	Scattered Village Houses at Ma Wat Wai	54.2	38.8	0.0	59.9	42.5	0.0	0.0	0.0	60.0	60.0	70	N	5.8	Y	21.2	Y	N	N
R4602	2	17.0	Scattered Village Houses at Ma Wat Wai	54.4	41.1	0.0	60.5	42.9	0.0	0.0	0.0	60.6	60.6	70	N	6.2	Y	19.5	Y	N	N
R4602	3	20.0	Scattered Village Houses at Ma Wat Wai	54.6	43.0	0.0	61.1	43.3	0.0	0.0	0.0	61.2	61.3	70	N	6.7	Y	18.3	Y	N	N
R4603	1	14.0	Scattered Village Houses at Ma Wat Wai	52.5	38.8	0.0	59.4	43.4	0.0	0.0	0.0	59.6	59.6	70	N	7.1	Y	20.8	Y	N	N
R4603	2	17.0	Scattered Village Houses at Ma Wat Wai	52.8	41.2	0.0	60.1	43.7	0.0	0.0	0.0	60.2	60.3	70	N	7.5	Y	19.1	Y	N	N
R4603	3	20.0	Scattered Village Houses at Ma Wat Wai	53	43.1	0.0	60.8	44.0	0.0	0.0	0.0	60.9	61.0	70	N	8.0	Y	17.9	Y	N	N
R4604	1	14.0	Scattered Village Houses at Ma Wat Wai	54.1	40.4	0.0	57.7	41.9	0.0	0.0	0.0	57.8	57.8	70	N	3.7	Y	17.4	Y	N	N
R4604	2	17.0	Scattered Village Houses at Ma Wat Wai	54.3	42.8	0.0	58.3	42.1	0.0	0.0	0.0	58.4	58.5	70	N	4.2	Y	15.7	Y	N	N
R4604	3	20.0	Scattered Village Houses at Ma Wat Wai	54.5	44.3	0.0	58.9	42.3	0.0	0.0	0.0	59.0	59.1	70	N	4.6	Y	14.8	Y	N	N
R4625	1	11.3	Tsung Kyam Kindergarten and Tsung Kyam Church	53.6	51.6	0.0	58.1	38.4	0.0	0.0	0.0	58.1	59.0	65	N	5.4	Y	7.4	Y	N	N
R4625	2	14.3	Tsung Kyam Kindergarten and Tsung Kyam Church	53.6	51.6	0.0	58.8	38.4	0.0	0.0	0.0	58.8	59.5	65	N	5.9	Y	7.9	Y	N	N
R4626	1	11.3	Tsung Kyam Kindergarten and Tsung Kyam Church	54.5	51.2	0.0	58.9	42.8	0.0	0.0	0.0	59.0	59.7	65	N	5.2	Y	8.5	Y	N	N
R4626	2	14.3	Tsung Kyam Kindergarten and Tsung Kyam Church	54.5	51.2	0.0	59.5	42.8	0.0	0.0	0.0	59.6	60.2	65	N	5.7	Y	9.0	Y	N	N
R4627	1	11.6	Tsung Kyam Kindergarten and Tsung Kyam Church	51.2	49.0	0.0	58.0	0.0	0.0	0.0	0.0	58.0	58.5	65	N	7.3	Y	9.5	Y	N	N
R4627	2	14.6	Tsung Kyam Kindergarten and Tsung Kyam Church	51.2	49.0	0.0	58.4	0.0	0.0	0.0	0.0	58.4	58.9	65	N	7.7	Y	9.9	Y	N	N
R4628	1	11.6	Tsung Kyam Kindergarten and Tsung Kyam Church	52.8	48.8	0.0	58.9	0.0	0.0	0.0	0.0	58.9	59.3	65	N	6.5	Y	10.5	Y	N	N
R4628	2	14.6	Tsung Kyam Kindergarten and Tsung Kyam Church	53	48.8	0.0	59.3	0.0	0.0	0.0	0.0	59.3	59.7	65	N	6.7	Y	10.9	Y	N	N
R4641	1	28.4	Shung Him Tong Tsuen	59.9	58.0	0.0	68.5	42.5	0.0	0.0	0.0	68.5	68.8	70	N	8.9	Y	10.8	Y	N	N
R4641	2	31.4	Shung Him Tong Tsuen	59.9	58.0	0.0	69.6	42.9	0.0	0.0	0.0	69.6	69.9	70	N	10.0	Y	11.9	Y	N	N
R4641	3	34.4	Shung Him Tong Tsuen	59.9	58.0	0.0	70.3	42.9	0.0	0.0	0.0	70.3	70.6	70	Y	10.7	Y	12.6	Y	N	Y
R4642	1	28.4	Shung Him Tong Tsuen	64.1	63.4	0.0	66.4	18.6	0.0	0.0	0.0	66.4	68.2	70	N	4.1	Y	4.8	Y	N	N
R4642	2	31.4	Shung Him Tong Tsuen	64.2	63.5	0.0	67.5	21.9	0.0	0.0	0.0	67.5	69.0	70	N	4.8	Y	5.5	Y	N	N
R4642	3	34.4	Shung Him Tong Tsuen	64.3	63.5	0.0	68.5	26.0	0.0	0.0	0.0	68.5	69.7	70	N	5.4	Y	6.2	Y	N	N
R4643	1	28.4	Shung Him Tong Tsuen	53.5	53.2	0.0	60.8	39.7	0.0	0.0	0.0	60.9	61.5	70	N	8.0	Y	8.3	Y	N	N
R4643	2	31.4	Shung Him Tong Tsuen	54.7	53.7	0.0	61.7	40.4	0.0	0.0	0.0	61.7	62.3	70	N	7.6	Y	8.6	Y	N	N
R4643	3	34.4	Shung Him Tong Tsuen	55.6	54.2	0.0	62.7	40.8	0.0	0.0	0.0	62.7	63.3	70	N	7.7	Y	9.1	Y	N	N
R4651	1	11.2	Shung Him Tong Tsuen	62.3	61.2	0.0	56.4	39.7	7.2	0.0	0.0	56.5	62.5	70	N	0.2	N	1.3	Y	N	N
R4651	2	14.2	Shung Him Tong Tsuen	62.3	61.2	0.0	57.8	39.7	7.2	0.0	0.0	57.8	62.8	70	N	0.5	N	1.6	Y	N	N
R4651	3	17.2	Shung Him Tong Tsuen	62.3	61.2	0.0	59.3	39.7	7.2	0.0	0.0	59.4	63.4	70	N	1.1	Y	2.2	Y	N	N
R4651	4	20.2	Shung Him Tong Tsuen	62.3	61.2	0.0	61.4	39.6	7.2	0.0	0.0	61.5	64.3	70	N	2.0	Y	3.1	Y	N	N
R4652	1	11.2	Shung Him Tong Tsuen	45.1	0.0	0.0	60.5	39.4	0.0	0.0	0.0	60.5	60.5	70	N	15.4	Y	57.5	Y	N	N
R4652	2	14.2	Shung Him Tong Tsuen	45.4	0.0	0.0	62.1	39.4	0.0	0.0	0.0	62.2	62.2	70	N	16.8	Y	59.2	Y	N	N
R4652	3	17.2	Shung Him Tong Tsuen	45.7	0.0	0.0	64.1	39.4	0.0	0.0	0.0	64.1	64.1	70	N	18.4	Y	61.1	Y	N	N
R4652	4	20.2	Shung Him Tong Tsuen	45.9	0.0	0.0	66.6	39.4	0.0	0.0	0.0	66.6	66.6	70	N	20.7	Y	63.6	Y	N	N
R4653	1	11.2	Shung Him Tong Tsuen	65.2	64.6	0.0	58.6	0.0	0.0	0.0	0.0	58.6	65.6	70	N	0.4	N	1.0	Y	N	N
R4653	2	14.2	Shung Him Tong Tsuen	65.2	64.6	0.0	60.1	0.0	0.0	0.0	0.0	60.1	65.9	70	N	0.7	N	1.3	Y	N	N
R4653	3	17.2	Shung Him Tong Tsuen	65.2	64.6	0.0	62.0	0.0	0.0	0.0	0.0	62.0	66.5	70	N	1.3	Y	1.9	Y	N	N
R4653	4	20.2	Shung Him Tong Tsuen	65.2	64.6	0.0	64.4	0.0	0.0	0.0	0.0	64.4	67.5	70	N	2.3	Y	2.9	Y	N	N
R4661	1	17.5	Scattered Village Houses in Tong Hang	68.3	66.7	56.4	64.3	0.0	0.0	49.8	0.0	64.4	69.0	70	N	0.7	N	1.9	Y	N	N
R4661	2	20.5	Scattered Village Houses in Tong Hang	68.3	66.7	56.4	65.8	0.0	0.0	49.8	0.0	65.9	69.5	70	N	1.2	Y	2.4	Y	N	N
R4662	1	17.5	Scattered Village Houses in Tong Hang	65	63.8	0.0	61.9	0.0	0.0	0.0	0.0	61.9	66.0	70	N	1.0	Y	2.2	Y	N	N
R4662	2	20.5	Scattered Village Houses in Tong Hang	65	63.8	0.0	63.1	0.0	0.0	0.0	0.0	63.1	66.5	70	N	1.5	Y	2.7	Y	N	N
R4704	1	16.3	Tong Hang Tung Chuen	71.6	60.6	70.1	59.2	44.7	0.0	41.8	0.0	59.4	70.9	70	Y	-0.7	N	0.3	N	N	N
R4704	2	19.3	Tong Hang Tung Chuen	71.6	60.8	70.2	59.6	45.4	0.0	42.6	0.0	59.8	71.0	70	Y	-0.6	N	0.3	N	N	N
R4704	3	22.3	Tong Hang Tung Chuen	71.7	60.9	70.4	60.0	45.9	0.0	43.3	0.0	60.2	71.2	70	Y	-0.5	N	0.3	N	N	N
R4721	1	22.3	Dawning Views	64.2	60.1	62.1	50.7	0.0	0.0	0.0	0.0	50.7	64.4	70	N	0.2	N	0.2	N	N	N
R4721	2	25.3	Dawning Views	66.1	61.2	64.2	53.2	0.0	0.0	0.0	0.0	53.2	66.2	70	N	0.1	N	0.2	N	N	N
R4721	3	28.3	Dawning Views	69.3	63.0	67.6	54.9	0.0	0.0	0.0	0.0	54.9	69.1	70	N	-0.2	N	0.2	N	N	N
R4721	4	31.3	Dawning Views	72.1	65.9	70.2	55.6	0.0	0.0	0.0	0.0	55.6	71.7	70	Y	-0.4	N	0.1	N	N	N
R4721	5	34.3	Dawning Views	73.7	67.7	71.6	56.0	0.0	0.0	0.0	0.0	56.0	73.2	70	Y	-0.5	N	0.1	N	N	N
R4721	6	37.3	Dawning Views	74.3	68.4	72.1	56.5	0.0	0.0	0.0	0.0	56.5	73.7	70	Y	-0.6	N	0.1	N	N	N
R4721	7	40.3	Dawning Views	74.5	68.8	72.4	56.8	0.0	0.0	0.0	0.0	56.8	74.0	70	Y	-0.5	N	0.0	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required[4,5] (Y/N)
							dB (A)														
R4721	8	43.3	Dawning Views	74.7	69.0	72.6	57.0	0.0	0.0	0.0	0.0	57.0	74.2	70	Y	-0.5	N	0.0	N	N	N
R4721	9	46.3	Dawning Views	74.8	69.2	72.8	57.0	0.0	0.0	0.0	0.0	57.0	74.4	70	Y	-0.4	N	0.0	N	N	N
R4721	10	49.3	Dawning Views	74.9	69.4	72.9	57.2	0.0	0.0	0.0	0.0	57.2	74.6	70	Y	-0.3	N	0.1	N	N	N
R4721	11	52.3	Dawning Views	75	69.5	73.0	57.3	0.0	0.0	0.0	0.0	57.3	74.7	70	Y	-0.3	N	0.1	N	N	N
R4721	12	55.3	Dawning Views	75	69.7	73.0	57.5	0.0	0.0	0.0	0.0	57.5	74.8	70	Y	-0.2	N	0.1	N	N	N
R4721	13	58.3	Dawning Views	75.1	69.9	73.1	57.8	0.0	0.0	0.0	0.0	57.8	74.9	70	Y	-0.2	N	0.1	N	N	N
R4721	14	61.3	Dawning Views	75.1	70.1	73.1	58.0	0.0	0.0	0.0	0.0	58.0	75.0	70	Y	-0.1	N	0.1	N	N	N
R4721	15	64.3	Dawning Views	75.2	70.4	73.1	58.3	0.0	0.0	0.0	0.0	58.3	75.1	70	Y	-0.1	N	0.1	N	N	N
R4721	16	67.3	Dawning Views	75.2	70.7	73.1	58.6	0.0	0.0	0.0	0.0	58.6	75.2	70	Y	0.0	N	0.1	N	N	N
R4721	17	70.3	Dawning Views	75.3	71.1	73.1	58.9	0.0	0.0	0.0	0.0	58.9	75.3	70	Y	0.0	N	0.1	N	N	N
R4721	18	73.3	Dawning Views	75.4	71.5	73.0	59.1	0.0	0.0	0.0	0.0	59.1	75.4	70	Y	0.0	N	0.1	N	N	N
R4721	19	76.3	Dawning Views	75.5	72.0	73.0	59.3	0.0	0.0	0.0	0.0	59.3	75.7	70	Y	0.2	N	0.2	N	N	N
R4721	20	79.3	Dawning Views	75.6	72.5	73.0	59.5	0.0	0.0	0.0	0.0	59.5	75.9	70	Y	0.3	N	0.1	N	N	N
R4721	21	82.3	Dawning Views	75.7	72.8	73.0	59.7	0.0	0.0	0.0	0.0	59.7	76.0	70	Y	0.3	N	0.1	N	N	N
R4721	22	85.3	Dawning Views	75.9	73.3	73.0	59.9	0.0	0.0	0.0	0.0	59.9	76.3	70	Y	0.4	N	0.1	N	N	N
R4721	23	88.3	Dawning Views	76.1	73.7	73.1	60.0	0.0	0.0	0.0	0.0	60.0	76.5	70	Y	0.4	N	0.1	N	N	N
R4721	24	91.3	Dawning Views	76.3	74.0	73.1	60.2	0.0	0.0	0.0	0.0	60.2	76.7	70	Y	0.4	N	0.1	N	N	N
R4721	25	94.3	Dawning Views	76.4	74.2	73.1	60.3	0.0	0.0	0.0	0.0	60.3	76.8	70	Y	0.4	N	0.1	N	N	N
R4721	26	97.3	Dawning Views	76.5	74.4	73.2	60.4	0.0	0.0	0.0	0.0	60.4	76.9	70	Y	0.4	N	0.0	N	N	N
R4721	27	100.3	Dawning Views	76.6	74.5	73.2	60.5	0.0	0.0	0.0	0.0	60.5	77.0	70	Y	0.4	N	0.1	N	N	N
R4721	28	103.3	Dawning Views	76.7	74.6	73.3	60.6	0.0	0.0	0.0	0.0	60.6	77.1	70	Y	0.4	N	0.1	N	N	N
R4721	29	106.3	Dawning Views	76.7	74.7	73.3	60.7	0.0	0.0	0.0	0.0	60.7	77.2	70	Y	0.5	N	0.1	N	N	N
R4722	1	22.3	Dawning Views	64.2	60.7	60.9	50.2	35.4	0.0	40.8	0.0	50.8	64.0	70	N	-0.2	N	0.2	N	N	N
R4722	2	25.3	Dawning Views	66.8	62.4	63.9	53.0	38.5	0.0	43.6	0.0	53.6	66.5	70	N	-0.3	N	0.3	N	N	N
R4722	3	28.3	Dawning Views	71.1	65.9	68.5	55.1	42.3	0.0	45.8	0.0	55.8	70.5	70	Y	-0.6	N	0.1	N	N	N
R4722	4	31.3	Dawning Views	74.2	69.2	71.3	55.7	44.3	0.0	46.5	0.0	56.5	73.5	70	Y	-0.7	N	0.1	N	N	N
R4722	5	34.3	Dawning Views	75.2	70.3	72.4	56.2	45.5	0.0	47.3	0.0	57.0	74.5	70	Y	-0.7	N	0.0	N	N	N
R4722	6	37.3	Dawning Views	75.5	70.7	72.8	56.6	46.3	0.0	48.3	0.0	57.6	74.9	70	Y	-0.6	N	0.0	N	N	N
R4722	7	40.3	Dawning Views	75.7	70.9	73.0	57.0	46.9	0.0	49.1	0.0	58.0	75.1	70	Y	-0.6	N	0.0	N	N	N
R4722	8	43.3	Dawning Views	75.8	70.9	73.1	57.2	47.5	0.0	50.2	0.0	58.4	75.3	70	Y	-0.5	N	0.2	N	N	N
R4722	9	46.3	Dawning Views	75.8	71.0	73.3	57.2	48.1	0.0	51.2	0.0	58.6	75.4	70	Y	-0.4	N	0.1	N	N	N
R4722	10	49.3	Dawning Views	75.9	71.0	73.4	57.4	48.5	0.0	52.2	0.0	58.9	75.5	70	Y	-0.4	N	0.1	N	N	N
R4722	11	52.3	Dawning Views	76	71.0	73.6	57.5	48.9	0.0	53.3	0.0	59.3	75.6	70	Y	-0.4	N	0.1	N	N	N
R4722	12	55.3	Dawning Views	76	71.0	73.6	57.7	49.3	0.0	54.4	0.0	59.8	75.7	70	Y	-0.3	N	0.2	N	N	N
R4722	13	58.3	Dawning Views	76	71.1	73.7	58.0	49.6	0.0	55.5	0.0	60.3	75.7	70	Y	-0.3	N	0.1	N	N	N
R4722	14	61.3	Dawning Views	76.1	71.2	73.8	58.3	49.8	0.0	56.5	0.0	60.8	75.8	70	Y	-0.3	N	0.1	N	N	N
R4722	15	64.3	Dawning Views	76.1	71.2	73.8	58.6	50.1	0.0	57.4	0.0	61.3	75.9	70	Y	-0.2	N	0.2	N	N	N
R4722	16	67.3	Dawning Views	76.1	71.3	73.8	58.8	50.2	0.0	57.9	0.0	61.7	75.9	70	Y	-0.2	N	0.2	N	N	N
R4722	17	70.3	Dawning Views	76.1	71.4	73.8	59.1	50.3	0.0	58.2	0.0	62.0	75.9	70	Y	-0.2	N	0.1	N	N	N
R4722	18	73.3	Dawning Views	76.1	71.4	73.8	59.4	50.4	0.0	58.6	0.0	62.3	76.0	70	Y	-0.1	N	0.2	N	N	N
R4722	19	76.3	Dawning Views	76.1	71.5	73.8	59.6	50.4	0.0	58.7	0.0	62.5	76.0	70	Y	-0.1	N	0.2	N	N	N
R4722	20	79.3	Dawning Views	76.1	71.6	73.8	59.8	50.4	0.0	58.8	0.0	62.6	76.0	70	Y	-0.1	N	0.2	N	N	N
R4722	21	82.3	Dawning Views	76.1	71.7	73.8	59.9	50.5	0.0	58.9	0.0	62.7	76.1	70	Y	0.0	N	0.2	N	N	N
R4722	22	85.3	Dawning Views	76.1	71.7	73.7	60.1	50.5	0.0	59.1	0.0	62.9	76.1	70	Y	0.0	N	0.3	N	N	N
R4722	23	88.3	Dawning Views	76.1	71.8	73.7	60.3	50.5	0.0	59.2	0.0	63.0	76.1	70	Y	0.0	N	0.2	N	N	N
R4722	24	91.3	Dawning Views	76.1	71.8	73.7	60.4	50.6	0.0	59.2	0.0	63.1	76.1	70	Y	0.0	N	0.2	N	N	N
R4722	25	94.3	Dawning Views	76.1	71.8	73.8	60.5	50.6	0.0	59.3	0.0	63.2	76.1	70	Y	0.0	N	0.2	N	N	N
R4722	26	97.3	Dawning Views	76.1	71.9	73.7	60.6	50.6	0.0	59.3	0.0	63.3	76.1	70	Y	0.0	N	0.2	N	N	N
R4722	27	100.3	Dawning Views	76.1	71.9	73.7	60.7	50.7	0.0	59.3	0.0	63.3	76.1	70	Y	0.0	N	0.2	N	N	N
R4722	28	103.3	Dawning Views	76.1	71.9	73.8	60.8	50.7	0.0	59.3	0.0	63.4	76.2	70	Y	0.1	N	0.2	N	N	N
R4722	29	106.3	Dawning Views	76.1	71.9	73.8	60.9	50.7	0.0	59.3	0.0	63.4	76.2	70	Y	0.1	N	0.2	N	N	N
R4741	1	15.3	Wo Hop Shek San Tsuen, Regalia Villa	69.8	67.9	60.4	42.1	37.2	0.0	26.4	0.0	43.4	68.6	70	N	-1.2	N	0.0	N	N	N
R4741	2	18.3	Wo Hop Shek San Tsuen, Regalia Villa	69.9	67.9	61.0	44.8	39.5	0.0	27.8	0.0	46.0	68.8	70	N	-1.1	N	0.1	N	N	N
R4741	3	21.3	Wo Hop Shek San Tsuen, Regalia Villa	70.1	68.1	61.8	48.2	42.0	0.0	28.9	0.0	49.2	69.0	70	N	-1.1	N	0.0	N	N	N
R4742	1	15.3	Wo Hop Shek San Tsuen, Regalia Villa	58.3	55.8	54.3	45.1	39.6	0.0	37.7	0.0	46.8	58.5	70	N	0.2	N	0.4	N	N	N
R4742	2	18.3	Wo Hop Shek San Tsuen, Regalia Villa	59.6	56.7	56.2	47.4	41.7	0.0	38.4	0.0	48.8	59.8	70	N	0.2	N	0.3	N	N	N
R4742	3	21.3	Wo Hop Shek San Tsuen, Regalia Villa	61.6	58.4	58.4	50.2	44.3	0.0	39.2	0.0	51.5	61.8	70	N	0.2	N	0.4	N	N	N
R4743	1	15.3	Wo Hop Shek San Tsuen, Regalia Villa	57.1	46.3	55.7	46.6	33.1	15.6	53.1	0.0	54.0	58.2	70	N	1.1	Y	2.0	Y	N	N
R4743	2	18.3	Wo Hop Shek San Tsuen, Regalia Villa	57.9	46.4	55.9	47.1	34.3	15.7	53.2	0.0	54.2	58.4	70	N	0.5	N	2.0	Y	N	N
R4743	3	21.3	Wo Hop Shek San Tsuen, Regalia Villa	58.6	46.5	56.3	47.4	35.6	15.8	53.4	0.0	54.4	58.7	70	N	0.1	N	2.0	Y	N	N
R4747	1	16.1	Wo Hop Shek San Tsuen, Regalia Villa	76	75.1	64.1	52.9	56.8	0.0	0.0	0.0	58.3	75.6	70	Y	-0.4	N	0.2	N	N	N
R4747	2	19.1	Wo Hop Shek San Tsuen, Regalia Villa	76	75.1	64.8	53.6	57.6	0.0	0.0	0.0	59.0	75.6	70	Y	-0.4	N	0.1	N	N	N
R4747	3	22.1	Wo Hop Shek San Tsuen, Regalia Villa	76	74.9	65.4	54.2	58.0	0.0	0.0	0.0	59.5	75.5	70	Y	-0.5	N	0.1	N	N	N
R4748	1	16.1	Wo Hop Shek San Tsuen, Regalia Villa	65.8	63.0	61.1	51.8	51.2	0.0	0.0	0.0	54.5	65.5	70	N	-0.3	N	0.3	N	N	N
R4748	2	19.1	Wo Hop Shek San Tsuen, Regalia Villa	76.3	74.5	66.1	54.7	61.8	0.0	0.0	0.0	62.5	75.3	70	Y	-1.0	N	0.2	N	N	N
R4748	3	22.1	Wo Hop Shek San Tsuen, Regalia Villa	76.3	74.4	67.0	55.4	61.7	0.0	0.0	0.0	62.6	75.4	70	Y	-0.9	N	0.3	N	N	N
R4749	1	16.1	Wo Hop Shek San Tsuen, Regalia Villa	64.1	58.8	60.5	50.6	49.1	19.3	42.4	0.0	53.3	63.2	70	N	-0.9	N	0.5	N	N	N
R4749	2	19.1	Wo Hop Shek San Tsuen, Regalia Villa	73.6	69.6	66.2	55.4	62.0	19.9	43.1	0.0	62.9	71.8	70	Y	-1.8	N	0.6	N	N	N
R4749	3	22.1	Wo Hop Shek San Tsuen, Regalia Villa	73.8	69.6	67.1	56.1	62.4	20.5	43.8	0.0	63.3	72.2	70	Y	-1.6	N	0.7	N	N	N
R4763	1	21.3	Scattered Village Houses along MTRC and Fanling Highway	74	52.4	63.1	58.0	55.5	59.8	74.2	0.0	74.5	74.9	70	Y	0.9	N	11.4	Y	Y	Y
R4763	2	24.3	Scattered Village Houses along MTRC and Fanling Highway	74.4	54.2	63.8	58.6	56.6	59.8	74.7	0.0	75.0	75.3	70	Y	0.9	N	11.0	Y	Y	Y
R4783	1	24.3	Scattered Village Houses East of Wo Hop Shek San Tsuen	76.3	33.0	73.5	58.6	69.4	59.9	79.1	0.0	79.6	80.5	70	Y	4.2	Y	7.0	Y	Y	Y
R4783	2	27.3	Scattered Village Houses East of Wo Hop Shek San Tsuen	78.4	33.0	73.5	59.1	69.6	60.2	79.2	0.0	79.8	80.7	70	Y	2.3	Y	7.2	Y	Y	Y
R4784	1	22.4	Scattered Village Houses East of Wo Hop Shek San Tsuen	74.5	32.9	72.4	58.5	70.1	60.3	79.7	0.0	80.2	80.9	70	Y	6.4	Y	8.5	Y	Y	Y
R4784	2	25.4	Scattered Village Houses East of Wo Hop Shek San Tsuen	78.4	32.9	72.4	59.1	70.3	60.7	80.0	0.0	80.5	81.1	70	Y	2.7	Y	8.7	Y	Y	Y
R4785	1	22.4	Scattered Village Houses East of Wo Hop Shek San Tsuen	74.1	35.1	41.1	58.4	68.8	60.8	80.1	0.0	80.5	80.5	70	Y	6.4	Y	38.4	Y	Y	Y
R4785	2	25.4	Scattered Village Houses East of Wo Hop Shek San Tsuen	78.3	35.6	42.9	59.0	69.4	61.3	80.4	0.0	80.8	80.8	70	Y	2.5	Y	37.2	Y	Y	Y
R5291	1	8.5	C2-7	-	0.0	0.0	59.8	65.8	60.1	0.0	0.0	67.6	67.6	65	Y	-	-	64.6	Y	Y	Y
R5291	2	12.5	C2-7	-	0.0	0.0	59.5	65.8	60.1	0.0	0.0	67.6	67.6	65	Y	-	-	64.6	Y	Y	Y
R5291	3	16.5	C2-7	-	0.0	0.0	59.2	65.8	60.1	0.0	0.0	67.5	67.5	65	Y	-	-	64.5	Y	Y	Y
R5291	4	20.5	C2-7	-	0.0	0.0	58.8	65.8	60.1	0.0	0.0	67.4	67.4	65	Y	-	-	64.4	Y	Y	Y
R5291	5	24.5	C2-7	-	0.0	0.0	58.4	65.7	60.1	0.0	0.0	67.4	67.4	65	Y	-	-	64.4	Y	Y	Y
R5291	6	28.5	C2-7	-	0.0	0.0	58.0	65.7	60.1	0.0	0.0	67.3	67.3	65	Y	-	-	64.3	Y	Y	Y
R5291	7	32.5	C2-7	-	0.0	0.0	57.7	65.7	60.1	0.0	0.0	67.2	67.2	65	Y	-	-	64.2	Y	Y	Y
R5291	8	36.5	C2-7	-	0.0	0.0	57.3	65.6	60.1	0.0	0.0	67.2	67.2	65	Y	-	-	64.2	Y	Y	Y
R5292	1	8.5	C2-7	-	60.6	0.0	0.0	0.0	63.2	0.0	0.0	63.2	65.1	65	N	-	-	4.5	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]												
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							dB (A)									C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
R5292	2	12.5	C2-7	-	60.6	0.0	0.0	0.0	63.2	0.0	0.0	63.2	65.1	65	N	-	-	4.5	Y	N	N
R5292	3	16.5	C2-7	-	60.6	0.0	0.0	0.0	63.1	0.0	0.0	63.1	65.1	65	N	-	-	4.5	Y	N	N
R5292	4	20.5	C2-7	-	60.7	0.0	0.0	0.0	63.1	0.0	0.0	63.1	65.1	65	N	-	-	4.4	Y	N	N
R5292	5	24.5	C2-7	-	60.7	0.0	0.0	0.0	63.1	0.0	0.0	63.1	65.1	65	N	-	-	4.4	Y	N	N
R5292	6	28.5	C2-7	-	60.7	0.0	0.0	0.0	63.1	0.0	0.0	63.1	65.1	65	N	-	-	4.4	Y	N	N
R5292	7	32.5	C2-7	-	60.7	0.0	0.0	0.0	63.0	0.0	0.0	63.0	65.0	65	N	-	-	4.3	Y	N	N
R5292	8	36.5	C2-7	-	60.8	0.0	0.0	0.0	62.9	0.0	0.0	62.9	65.0	65	N	-	-	4.2	Y	N	N
R5293	1	8.5	C2-7	-	61.0	0.0	53.5	29.4	65.3	0.0	0.0	65.6	66.9	65	Y	-	-	5.9	Y	Y	Y
R5293	2	12.5	C2-7	-	61.0	0.0	55.8	30.4	65.3	0.0	0.0	65.7	67.0	65	Y	-	-	6.0	Y	Y	Y
R5293	3	16.5	C2-7	-	61.1	0.0	56.5	31.8	65.3	0.0	0.0	65.8	67.1	65	Y	-	-	6.0	Y	Y	Y
R5293	4	20.5	C2-7	-	61.2	0.0	56.7	33.4	65.2	0.0	0.0	65.8	67.1	65	Y	-	-	5.9	Y	Y	Y
R5293	5	24.5	C2-7	-	61.2	0.0	56.8	35.2	65.1	0.0	0.0	65.7	67.0	65	Y	-	-	5.8	Y	Y	Y
R5293	6	28.5	C2-7	-	61.3	0.0	56.8	37.2	65.0	0.0	0.0	65.6	67.0	65	Y	-	-	5.7	Y	Y	Y
R5293	7	32.5	C2-7	-	61.3	0.0	56.7	39.4	64.9	0.0	0.0	65.5	66.9	65	Y	-	-	5.6	Y	Y	Y
R5293	8	36.5	C2-7	-	61.3	0.0	56.6	41.9	64.8	0.0	0.0	65.4	66.9	65	Y	-	-	5.6	Y	N	Y
R5295	1	8.5	C2-9	-	60.2	0.0	0.0	57.2	65.4	0.0	0.0	66.0	67.0	65	Y	-	-	6.8	Y	Y	Y
R5295	2	12.5	C2-9	-	60.2	0.0	0.0	57.2	65.4	0.0	0.0	66.0	67.0	65	Y	-	-	6.8	Y	Y	Y
R5295	3	16.5	C2-9	-	60.2	0.0	0.0	57.2	65.3	0.0	0.0	65.9	66.9	65	Y	-	-	6.7	Y	Y	Y
R5295	4	20.5	C2-9	-	60.2	0.0	0.0	57.2	65.1	0.0	0.0	65.8	66.8	65	Y	-	-	6.6	Y	Y	Y
R5295	5	24.5	C2-9	-	60.1	0.0	0.0	57.2	64.9	0.0	0.0	65.6	66.7	65	Y	-	-	6.6	Y	Y	Y
R5295	6	28.5	C2-9	-	60.1	0.0	0.0	57.2	64.6	0.0	0.0	65.4	66.5	65	Y	-	-	6.4	Y	N	Y
R5295	7	32.5	C2-9	-	60.0	0.0	0.0	57.2	64.4	0.0	0.0	65.2	66.3	65	Y	-	-	6.3	Y	N	Y
R5295	8	36.5	C2-9	-	60.0	0.0	0.0	57.2	64.1	0.0	0.0	64.9	66.1	65	Y	-	-	6.1	Y	N	Y
R5296	1	8.5	C2-9	-	62.9	0.0	0.0	0.0	73.1	0.0	0.0	73.1	73.5	65	Y	-	-	10.6	Y	Y	Y
R5296	2	12.5	C2-9	-	62.9	0.0	0.0	0.0	73.0	0.0	0.0	73.0	73.4	65	Y	-	-	10.5	Y	Y	Y
R5296	3	16.5	C2-9	-	63.0	0.0	0.0	0.0	72.6	0.0	0.0	72.6	73.1	65	Y	-	-	10.1	Y	Y	Y
R5296	4	20.5	C2-9	-	63.0	0.0	0.0	0.0	72.2	0.0	0.0	72.2	72.7	65	Y	-	-	9.7	Y	Y	Y
R5296	5	24.5	C2-9	-	63.1	0.0	0.0	0.0	71.7	0.0	0.0	71.7	72.3	65	Y	-	-	9.2	Y	Y	Y
R5296	6	28.5	C2-9	-	63.1	0.0	0.0	0.0	71.3	0.0	0.0	71.3	71.9	65	Y	-	-	8.8	Y	Y	Y
R5296	7	32.5	C2-9	-	63.0	0.0	0.0	0.0	70.9	0.0	0.0	70.9	71.5	65	Y	-	-	8.5	Y	Y	Y
R5296	8	36.5	C2-9	-	63.0	0.0	0.0	0.0	70.5	0.0	0.0	70.5	71.2	65	Y	-	-	8.2	Y	Y	Y
R5297	1	8.5	C2-9	-	57.0	0.0	57.1	56.4	74.2	0.0	0.0	74.3	74.4	65	Y	-	-	17.4	Y	Y	Y
R5297	2	12.5	C2-9	-	57.2	0.0	58.0	56.4	74.1	0.0	0.0	74.3	74.4	65	Y	-	-	17.2	Y	Y	Y
R5297	3	16.5	C2-9	-	57.3	0.0	58.9	56.4	73.9	0.0	0.0	74.1	74.2	65	Y	-	-	16.9	Y	Y	Y
R5297	4	20.5	C2-9	-	57.5	0.0	59.6	56.4	73.7	0.0	0.0	73.9	74.0	65	Y	-	-	16.5	Y	Y	Y
R5297	5	24.5	C2-9	-	57.6	0.0	60.2	56.4	73.4	0.0	0.0	73.7	73.8	65	Y	-	-	16.2	Y	Y	Y
R5297	6	28.5	C2-9	-	57.6	0.0	60.6	56.3	73.1	0.0	0.0	73.4	73.5	65	Y	-	-	15.9	Y	Y	Y
R5297	7	32.5	C2-9	-	57.7	0.0	60.9	56.3	72.7	0.0	0.0	73.1	73.2	65	Y	-	-	15.5	Y	Y	Y
R5297	8	36.5	C2-9	-	57.7	0.0	61.1	56.3	72.4	0.0	0.0	72.8	72.9	65	Y	-	-	15.2	Y	Y	Y
R5298	1	8.5	C2-9	-	55.2	0.0	59.1	58.9	75.5	0.0	0.0	75.7	75.7	65	Y	-	-	20.5	Y	Y	Y
R5298	2	12.5	C2-9	-	55.3	0.0	60.3	58.9	75.3	0.0	0.0	75.5	75.6	65	Y	-	-	20.3	Y	Y	Y
R5298	3	16.5	C2-9	-	55.4	0.0	61.4	58.8	75.0	0.0	0.0	75.3	75.3	65	Y	-	-	19.9	Y	Y	Y
R5298	4	20.5	C2-9	-	55.5	0.0	62.1	58.8	74.5	0.0	0.0	74.9	74.9	65	Y	-	-	19.4	Y	Y	Y
R5298	5	24.5	C2-9	-	55.6	0.0	62.7	58.8	74.0	0.0	0.0	74.4	74.5	65	Y	-	-	18.9	Y	Y	Y
R5298	6	28.5	C2-9	-	55.7	0.0	63.0	58.8	73.5	0.0	0.0	74.0	74.1	65	Y	-	-	18.4	Y	Y	Y
R5298	7	32.5	C2-9	-	55.7	0.0	63.2	58.7	73.0	0.0	0.0	73.6	73.6	65	Y	-	-	17.9	Y	Y	Y
R5298	8	36.5	C2-9	-	55.8	0.0	63.2	58.7	72.6	0.0	0.0	73.2	73.3	65	Y	-	-	17.5	Y	Y	Y
R5321	1	13.5	D2-4	-	0.0	0.0	61.1	55.5	50.6	0.0	0.0	62.5	62.5	70	N	-	-	59.5	Y	N	N
R5321	2	16.5	D2-4	-	0.0	0.0	62.2	55.5	50.6	0.0	0.0	63.3	63.3	70	N	-	-	60.3	Y	N	N
R5321	3	19.5	D2-4	-	0.0	0.0	62.9	55.5	50.6	0.0	0.0	63.8	63.8	70	N	-	-	60.8	Y	N	N
R5321	4	22.5	D2-4	-	0.0	0.0	63.6	55.5	50.6	0.0	0.0	64.4	64.4	70	N	-	-	61.4	Y	N	N
R5321	5	25.5	D2-4	-	0.0	0.0	64.4	55.5	50.5	0.0	0.0	65.1	65.1	70	N	-	-	62.1	Y	N	N
R5321	6	28.5	D2-4	-	0.0	0.0	65.0	55.5	50.5	0.0	0.0	65.6	65.6	70	N	-	-	62.6	Y	N	N
R5321	7	31.5	D2-4	-	0.0	0.0	65.6	55.5	50.5	0.0	0.0	66.1	66.1	70	N	-	-	63.1	Y	N	N
R5321	8	34.5	D2-4	-	0.0	0.0	66.0	55.5	50.5	0.0	0.0	66.5	66.5	70	N	-	-	63.5	Y	N	N
R5321	9	37.5	D2-4	-	0.0	0.0	66.4	55.5	50.4	0.0	0.0	66.8	66.8	70	N	-	-	63.8	Y	N	N
R5321	10	40.5	D2-4	-	0.0	0.0	66.6	55.5	50.4	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
R5321	11	43.5	D2-4	-	0.0	0.0	66.8	55.5	50.4	0.0	0.0	67.2	67.2	70	N	-	-	64.2	Y	N	N
R5321	12	46.5	D2-4	-	0.0	0.0	67.0	55.5	50.4	0.0	0.0	67.4	67.4	70	N	-	-	64.4	Y	N	N
R5321	13	49.5	D2-4	-	0.0	0.0	67.1	55.4	50.3	0.0	0.0	67.4	67.4	70	N	-	-	64.4	Y	N	N
R5321	14	52.5	D2-4	-	0.0	0.0	67.1	55.4	50.3	0.0	0.0	67.5	67.5	70	N	-	-	64.5	Y	N	N
R5321	15	55.5	D2-4	-	0.0	0.0	67.2	55.4	50.3	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
R5321	16	58.5	D2-4	-	0.0	0.0	67.3	55.4	50.2	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
R5321	17	61.5	D2-4	-	0.0	0.0	67.3	55.4	50.2	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
R5321	18	64.5	D2-4	-	0.0	0.0	67.3	55.3	50.2	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
R5321	19	67.5	D2-4	-	0.0	0.0	67.3	55.3	50.1	0.0	0.0	67.7	67.7	70	N	-	-	64.7	Y	N	N
R5321	20	70.5	D2-4	-	0.0	0.0	67.3	55.3	50.1	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
R5322	1	13.5	D2-4	-	0.0	0.0	61.1	51.0	47.9	0.0	0.0	61.7	61.7	70	N	-	-	58.7	Y	N	N
R5322	2	16.5	D2-4	-	0.0	0.0	62.0	51.0	47.9	0.0	0.0	62.5	62.5	70	N	-	-	59.5	Y	N	N
R5322	3	19.5	D2-4	-	0.0	0.0	62.9	51.1	47.9	0.0	0.0	63.3	63.3	70	N	-	-	60.3	Y	N	N
R5322	4	22.5	D2-4	-	0.0	0.0	63.7	51.1	47.9	0.0	0.0	64.0	64.0	70	N	-	-	61.0	Y	N	N
R5322	5	25.5	D2-4	-	0.0	0.0	64.4	51.2	47.8	0.0	0.0	64.7	64.7	70	N	-	-	61.7	Y	N	N
R5322	6	28.5	D2-4	-	0.0	0.0	65.1	51.2	47.8	0.0	0.0	65.4	65.4	70	N	-	-	62.4	Y	N	N
R5322	7	31.5	D2-4	-	0.0	0.0	65.7	51.2	47.8	0.0	0.0	65.9	65.9	70	N	-	-	62.9	Y	N	N
R5322	8	34.5	D2-4	-	0.0	0.0	66.2	51.2	47.8	0.0	0.0	66.4	66.4	70	N	-	-	63.4	Y	N	N
R5322	9	37.5	D2-4	-	0.0	0.0	66.6	51.2	47.7	0.0	0.0	66.8	66.8	70	N	-	-	63.8	Y	N	N
R5322	10	40.5	D2-4	-	0.0	0.0	66.9	51.2	47.7	0.0	0.0	67.1	67.1	70	N	-	-	64.1	Y	N	N
R5322	11	43.5	D2-4	-	0.0	0.0	67.1	51.2	47.7	0.0	0.0	67.3	67.3	70	N	-	-	64.3	Y	N	N
R5322	12	46.5	D2-4	-	0.0	0.0	67.3	51.2	47.6	0.0	0.0	67.5	67.5	70	N	-	-	64.5	Y	N	N
R5322	13	49.5	D2-4	-	0.0	0.0	67.4	51.2	47.6	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
R5322	14	52.5	D2-4	-	0.0	0.0	67.5	51.1	47.5	0.0	0.0	67.7	67.7	70	N	-	-	64.7	Y	N	N
R5322	15	55.5	D2-4	-	0.0	0.0	67.6	51.1	47.5	0.0	0.0	67.8	67.8	70	N	-	-	64.8	Y	N	N
R5322	16	58.5	D2-4	-	0.0	0.0	67.7	51.1	47.5	0.0	0.0	67.8	67.8	70	N	-	-	64.8	Y	N	N
R5322	17	61.5	D2-4	-	0.0	0.0	67.7	51.1	47.4	0.0	0.0	67.9	67.9	70	N	-	-	64.9	Y	N	N
R5322	18	64.5	D2-4	-	0.0	0.0	67.8	51.1	47.4	0.0	0.0	67.9	67.9	70	N	-	-	64.9	Y	N	N
R5322	19	67.5	D2-4	-	0.0	0.0	67.8	51.1	47.3	0.0	0.0	67.9	67.9	70	N	-	-	64.9	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
R5322	20	70.5	D2-4	-	0.0	0.0	67.8	51.1	47.3	0.0	0.0	67.9	67.9	70	N	-	-	64.9	Y	N	N
R5323	1	13.5	D2-4	-	27.4	0.0	25.5	3.0	72.6	0.0	0.0	72.6	72.6	70	Y	-	-	45.2	Y	Y	Y
R5323	2	16.5	D2-4	-	32.6	0.0	26.0	3.0	72.4	0.0	0.0	72.4	72.4	70	Y	-	-	39.8	Y	Y	Y
R5323	3	19.5	D2-4	-	40.6	0.0	26.6	3.0	72.1	0.0	0.0	72.1	72.1	70	Y	-	-	31.5	Y	Y	Y
R5323	4	22.5	D2-4	-	41.5	0.0	27.2	3.0	71.8	0.0	0.0	71.8	71.8	70	Y	-	-	30.3	Y	Y	Y
R5323	5	25.5	D2-4	-	41.8	0.0	28.0	3.0	71.4	0.0	0.0	71.4	71.4	70	Y	-	-	29.6	Y	Y	Y
R5323	6	28.5	D2-4	-	42.0	0.0	28.9	3.0	71.1	0.0	0.0	71.1	71.1	70	Y	-	-	29.1	Y	Y	Y
R5323	7	31.5	D2-4	-	42.1	0.0	30.0	3.0	70.7	0.0	0.0	70.7	70.8	70	Y	-	-	28.7	Y	Y	Y
R5323	8	34.5	D2-4	-	42.1	0.0	31.4	3.0	70.4	0.0	0.0	70.5	70.5	70	Y	-	-	28.4	Y	Y	Y
R5323	9	37.5	D2-4	-	42.1	0.0	33.1	3.0	70.2	0.0	0.0	70.2	70.2	70	N	-	-	28.1	Y	N	N
R5323	10	40.5	D2-4	-	42.1	0.0	34.4	3.0	69.9	0.0	0.0	69.9	69.9	70	N	-	-	27.8	Y	N	N
R5323	11	43.5	D2-4	-	42.1	0.0	36.2	3.0	69.6	0.0	0.0	69.6	69.7	70	N	-	-	27.6	Y	N	N
R5323	12	46.5	D2-4	-	42.2	0.0	37.5	3.0	69.4	0.0	0.0	69.4	69.4	70	N	-	-	27.2	Y	N	N
R5323	13	49.5	D2-4	-	42.1	0.0	38.3	3.0	69.2	0.0	0.0	69.2	69.2	70	N	-	-	27.1	Y	N	N
R5323	14	52.5	D2-4	-	42.1	0.0	38.8	3.0	68.9	0.0	0.0	68.9	68.9	70	N	-	-	26.8	Y	N	N
R5323	15	55.5	D2-4	-	42.0	0.0	39.3	3.0	68.7	0.0	0.0	68.7	68.7	70	N	-	-	26.7	Y	N	N
R5323	16	58.5	D2-4	-	42.0	0.0	39.7	3.0	68.5	0.0	0.0	68.5	68.5	70	N	-	-	26.5	Y	N	N
R5323	17	61.5	D2-4	-	41.9	0.0	39.9	3.0	68.3	0.0	0.0	68.3	68.3	70	N	-	-	26.4	Y	N	N
R5323	18	64.5	D2-4	-	41.9	0.0	40.0	2.9	68.1	0.0	0.0	68.1	68.1	70	N	-	-	26.2	Y	N	N
R5323	19	67.5	D2-4	-	41.8	0.0	40.0	2.9	67.9	0.0	0.0	67.9	67.9	70	N	-	-	26.1	Y	N	N
R5323	20	70.5	D2-4	-	41.7	0.0	40.0	2.9	67.8	0.0	0.0	67.8	67.8	70	N	-	-	26.1	Y	N	N
R5324	1	13.5	D2-4	-	22.9	0.0	19.3	3.6	73.1	0.0	0.0	73.1	73.1	70	Y	-	-	50.2	Y	Y	Y
R5324	2	16.5	D2-4	-	22.9	0.0	19.3	3.6	72.9	0.0	0.0	72.9	72.9	70	Y	-	-	50.0	Y	Y	Y
R5324	3	19.5	D2-4	-	22.9	0.0	19.3	3.6	72.5	0.0	0.0	72.5	72.5	70	Y	-	-	49.6	Y	Y	Y
R5324	4	22.5	D2-4	-	22.9	0.0	19.3	3.6	72.2	0.0	0.0	72.2	72.2	70	Y	-	-	49.3	Y	Y	Y
R5324	5	25.5	D2-4	-	22.9	0.0	19.3	3.6	71.8	0.0	0.0	71.8	71.8	70	Y	-	-	48.9	Y	Y	Y
R5324	6	28.5	D2-4	-	22.9	0.0	19.3	3.6	71.5	0.0	0.0	71.5	71.5	70	Y	-	-	48.6	Y	Y	Y
R5324	7	31.5	D2-4	-	22.9	0.0	19.3	3.6	71.1	0.0	0.0	71.1	71.1	70	Y	-	-	48.2	Y	Y	Y
R5324	8	34.5	D2-4	-	22.8	0.0	19.3	3.6	70.8	0.0	0.0	70.8	70.8	70	Y	-	-	48.0	Y	Y	Y
R5324	9	37.5	D2-4	-	22.8	0.0	19.3	3.6	70.5	0.0	0.0	70.5	70.5	70	Y	-	-	47.7	Y	Y	Y
R5324	10	40.5	D2-4	-	22.8	0.0	19.3	3.6	70.2	0.0	0.0	70.2	70.2	70	N	-	-	47.4	Y	N	N
R5324	11	43.5	D2-4	-	22.8	0.0	19.2	3.6	69.9	0.0	0.0	69.9	69.9	70	N	-	-	47.1	Y	N	N
R5324	12	46.5	D2-4	-	22.7	0.0	19.2	3.6	69.7	0.0	0.0	69.7	69.7	70	N	-	-	47.0	Y	N	N
R5324	13	49.5	D2-4	-	22.7	0.0	19.2	3.6	69.4	0.0	0.0	69.4	69.4	70	N	-	-	46.7	Y	N	N
R5324	14	52.5	D2-4	-	22.7	0.0	19.2	3.6	69.2	0.0	0.0	69.2	69.2	70	N	-	-	46.5	Y	N	N
R5324	15	55.5	D2-4	-	22.7	0.0	19.2	3.6	68.9	0.0	0.0	68.9	68.9	70	N	-	-	46.2	Y	N	N
R5324	16	58.5	D2-4	-	22.7	0.0	19.2	3.6	68.7	0.0	0.0	68.7	68.7	70	N	-	-	46.0	Y	N	N
R5324	17	61.5	D2-4	-	22.7	0.0	19.2	3.6	68.5	0.0	0.0	68.5	68.5	70	N	-	-	45.8	Y	N	N
R5324	18	64.5	D2-4	-	22.7	0.0	19.2	3.6	68.4	0.0	0.0	68.4	68.4	70	N	-	-	45.7	Y	N	N
R5324	19	67.5	D2-4	-	22.6	0.0	19.2	3.6	68.1	0.0	0.0	68.1	68.1	70	N	-	-	45.5	Y	N	N
R5324	20	70.5	D2-4	-	22.6	0.0	19.2	3.6	68.0	0.0	0.0	68.0	68.0	70	N	-	-	45.4	Y	N	N
R5325	1	13.5	D2-4	-	41.5	0.0	6.3	2.7	73.1	0.0	0.0	73.1	73.1	70	Y	-	-	31.6	Y	Y	Y
R5325	2	16.5	D2-4	-	42.4	0.0	6.3	2.7	72.8	0.0	0.0	72.8	72.8	70	Y	-	-	30.4	Y	Y	Y
R5325	3	19.5	D2-4	-	43.0	0.0	6.3	2.7	72.5	0.0	0.0	72.5	72.5	70	Y	-	-	29.5	Y	Y	Y
R5325	4	22.5	D2-4	-	43.4	0.0	6.3	2.7	72.2	0.0	0.0	72.2	72.2	70	Y	-	-	28.8	Y	Y	Y
R5325	5	25.5	D2-4	-	43.7	0.0	6.3	2.7	71.8	0.0	0.0	71.8	71.8	70	Y	-	-	28.1	Y	Y	Y
R5325	6	28.5	D2-4	-	43.9	0.0	6.3	2.7	71.5	0.0	0.0	71.5	71.5	70	Y	-	-	27.6	Y	Y	Y
R5325	7	31.5	D2-4	-	44.1	0.0	6.3	2.7	71.1	0.0	0.0	71.1	71.1	70	Y	-	-	27.0	Y	Y	Y
R5325	8	34.5	D2-4	-	44.2	0.0	6.3	2.7	70.8	0.0	0.0	70.8	70.8	70	Y	-	-	26.6	Y	Y	Y
R5325	9	37.5	D2-4	-	44.3	0.0	6.3	2.7	70.5	0.0	0.0	70.5	70.5	70	Y	-	-	26.2	Y	Y	Y
R5325	10	40.5	D2-4	-	44.3	0.0	6.2	2.7	70.2	0.0	0.0	70.2	70.2	70	N	-	-	25.9	Y	N	N
R5325	11	43.5	D2-4	-	44.4	0.0	6.2	2.7	69.9	0.0	0.0	69.9	69.9	70	N	-	-	25.5	Y	N	N
R5325	12	46.5	D2-4	-	44.4	0.0	6.2	2.7	69.6	0.0	0.0	69.6	69.6	70	N	-	-	25.2	Y	N	N
R5325	13	49.5	D2-4	-	44.4	0.0	6.2	2.7	69.4	0.0	0.0	69.4	69.4	70	N	-	-	25.0	Y	N	N
R5325	14	52.5	D2-4	-	44.4	0.0	6.2	2.6	69.1	0.0	0.0	69.1	69.2	70	N	-	-	24.8	Y	N	N
R5325	15	55.5	D2-4	-	44.3	0.0	6.2	2.6	68.9	0.0	0.0	68.9	68.9	70	N	-	-	24.6	Y	N	N
R5325	16	58.5	D2-4	-	44.3	0.0	6.2	2.6	68.7	0.0	0.0	68.7	68.7	70	N	-	-	24.4	Y	N	N
R5325	17	61.5	D2-4	-	44.3	0.0	6.2	2.6	68.5	0.0	0.0	68.5	68.6	70	N	-	-	24.3	Y	N	N
R5325	18	64.5	D2-4	-	44.3	0.0	6.2	2.6	68.3	0.0	0.0	68.3	68.3	70	N	-	-	24.0	Y	N	N
R5325	19	67.5	D2-4	-	44.3	0.0	6.2	2.6	68.1	0.0	0.0	68.1	68.2	70	N	-	-	23.9	Y	N	N
R5325	20	70.5	D2-4	-	44.3	0.0	6.2	2.6	68.0	0.0	0.0	68.0	68.0	70	N	-	-	23.7	Y	N	N
R5326	1	13.5	D2-4	-	43.5	0.0	2.8	2.0	72.2	0.0	0.0	72.2	72.2	70	Y	-	-	28.7	Y	Y	Y
R5326	2	16.5	D2-4	-	44.2	0.0	2.8	2.0	72.0	0.0	0.0	72.0	72.0	70	Y	-	-	27.8	Y	Y	Y
R5326	3	19.5	D2-4	-	44.8	0.0	2.8	2.0	71.8	0.0	0.0	71.8	71.8	70	Y	-	-	27.0	Y	Y	Y
R5326	4	22.5	D2-4	-	45.2	0.0	2.8	2.0	71.5	0.0	0.0	71.5	71.5	70	Y	-	-	26.3	Y	Y	Y
R5326	5	25.5	D2-4	-	45.5	0.0	2.8	2.0	71.3	0.0	0.0	71.3	71.3	70	Y	-	-	25.8	Y	Y	Y
R5326	6	28.5	D2-4	-	46.0	0.0	2.8	2.0	71.0	0.0	0.0	71.0	71.0	70	Y	-	-	25.0	Y	Y	Y
R5326	7	31.5	D2-4	-	46.4	0.0	2.8	2.0	70.7	0.0	0.0	70.7	70.7	70	Y	-	-	24.3	Y	Y	Y
R5326	8	34.5	D2-4	-	46.5	0.0	2.8	2.0	70.4	0.0	0.0	70.4	70.4	70	N	-	-	23.9	Y	N	N
R5326	9	37.5	D2-4	-	46.5	0.0	2.8	2.0	70.1	0.0	0.0	70.1	70.1	70	N	-	-	23.6	Y	N	N
R5326	10	40.5	D2-4	-	46.5	0.0	2.8	2.0	69.9	0.0	0.0	69.9	69.9	70	N	-	-	23.4	Y	N	N
R5326	11	43.5	D2-4	-	46.5	0.0	2.8	1.9	69.6	0.0	0.0	69.6	69.6	70	N	-	-	23.1	Y	N	N
R5326	12	46.5	D2-4	-	46.5	0.0	2.8	1.9	69.4	0.0	0.0	69.4	69.4	70	N	-	-	22.9	Y	N	N
R5326	13	49.5	D2-4	-	46.4	0.0	2.8	1.9	69.1	0.0	0.0	69.1	69.2	70	N	-	-	22.8	Y	N	N
R5326	14	52.5	D2-4	-	46.4	0.0	2.8	1.9	69.0	0.0	0.0	69.0	69.0	70	N	-	-	22.6	Y	N	N
R5326	15	55.5	D2-4	-	46.3	0.0	2.8	1.9	68.7	0.0	0.0	68.7	68.8	70	N	-	-	22.5	Y	N	N
R5326	16	58.5	D2-4	-	46.4	0.0	2.8	1.9	68.6	0.0	0.0	68.6	68.6	70	N	-	-	22.2	Y	N	N
R5326	17	61.5	D2-4	-	46.3	0.0	2.7	1.9	68.4	0.0	0.0	68.4	68.4	70	N	-	-	22.1	Y	N	N
R5326	18	64.5	D2-4	-	46.2	0.0	2.7	1.8	68.2	0.0	0.0	68.2	68.2	70	N	-	-	22.0	Y	N	N
R5326	19	67.5	D2-4	-	46.2	0.0	2.7	1.8	68.0	0.0	0.0	68.0	68.0	70	N	-	-	21.8	Y	N	N
R5326	20	70.5	D2-4	-	46.2	0.0	2.7	1.8	67.8	0.0	0.0	67.8	67.9	70	N	-	-	21.7	Y	N	N
R5341	1	13.0	D2-6	-	0.0	0.0	60.9	40.5	46.8	0.0	0.0	61.1	61.1	70	N	-	-	58.1	Y	N	N
R5341	2	15.7	D2-6	-	0.0	0.0	61.6	40.5	46.8	0.0	0.0	61.8	61.8	70	N	-	-	58.8	Y	N	N
R5341	3	18.4	D2-6	-	0.0	0.0	62.7	40.5	46.8	0.0	0.0	62.8	62.8	70	N	-	-	59.8	Y	N	N
R5341	4	21.1	D2-6	-	0.0	0.0	63.2	40.5	46.8	0.0	0.0	63.3	63.3	70	N	-	-	60.3	Y	N	N
R5341	5	23.8	D2-6	-	0.0	0.0	63.9	40.4	46.8	0.0	0.0	64.0	64.0	70	N	-	-	61.0	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required[4,5] (Y/N)
							dB (A)														
R5341	6	26.5	D2-6	-	0.0	0.0	64.6	40.4	46.8	0.0	0.0	64.7	64.7	70	N	-	-	61.7	Y	N	N
R5341	7	29.2	D2-6	-	0.0	0.0	65.3	40.4	46.8	0.0	0.0	65.3	65.3	70	N	-	-	62.3	Y	N	N
R5341	8	31.9	D2-6	-	0.0	0.0	65.8	40.4	46.7	0.0	0.0	65.9	65.9	70	N	-	-	62.9	Y	N	N
R5341	9	34.6	D2-6	-	0.0	0.0	66.3	40.4	46.7	0.0	0.0	66.3	66.3	70	N	-	-	63.3	Y	N	N
R5341	10	37.3	D2-6	-	0.0	0.0	66.6	40.4	46.7	0.0	0.0	66.7	66.7	70	N	-	-	63.7	Y	N	N
R5341	11	40.0	D2-6	-	0.0	0.0	66.9	40.4	46.7	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
R5341	12	42.7	D2-6	-	0.0	0.0	67.2	40.4	46.6	0.0	0.0	67.2	67.2	70	N	-	-	64.2	Y	N	N
R5341	13	45.4	D2-6	-	0.0	0.0	67.4	40.4	46.6	0.0	0.0	67.4	67.4	70	N	-	-	64.4	Y	N	N
R5341	14	48.1	D2-6	-	0.0	0.0	67.5	40.4	46.6	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
R5341	15	50.8	D2-6	-	0.0	0.0	67.6	40.4	46.5	0.0	0.0	67.7	67.7	70	N	-	-	64.7	Y	N	N
R5341	16	53.5	D2-6	-	0.0	0.0	67.7	40.4	46.5	0.0	0.0	67.8	67.8	70	N	-	-	64.8	Y	N	N
R5341	17	56.2	D2-6	-	0.0	0.0	67.8	40.4	46.5	0.0	0.0	67.8	67.8	70	N	-	-	64.8	Y	N	N
R5341	18	58.9	D2-6	-	0.0	0.0	67.9	40.4	46.4	0.0	0.0	67.9	67.9	70	N	-	-	64.9	Y	N	N
R5341	19	61.6	D2-6	-	0.0	0.0	67.9	40.4	46.4	0.0	0.0	67.9	67.9	70	N	-	-	64.9	Y	N	N
R5341	20	64.3	D2-6	-	0.0	0.0	67.9	40.3	46.4	0.0	0.0	68.0	68.0	70	N	-	-	65.0	Y	N	N
R5341	21	67.0	D2-6	-	0.0	0.0	67.9	40.3	46.3	0.0	0.0	68.0	68.0	70	N	-	-	65.0	Y	N	N
R5341	22	69.7	D2-6	-	0.0	0.0	67.9	40.3	46.3	0.0	0.0	68.0	68.0	70	N	-	-	65.0	Y	N	N
R5341	23	72.4	D2-6	-	0.0	0.0	67.9	40.3	46.3	0.0	0.0	68.0	68.0	70	N	-	-	65.0	Y	N	N
R5341	24	75.1	D2-6	-	0.0	0.0	67.9	40.3	46.2	0.0	0.0	68.0	68.0	70	N	-	-	65.0	Y	N	N
R5341	25	77.8	D2-6	-	0.0	0.0	67.9	40.3	46.2	0.0	0.0	68.0	68.0	70	N	-	-	65.0	Y	N	N
R5342	1	13.0	D2-6	-	23.2	0.0	28.7	18.1	74.0	0.0	0.0	74.0	74.0	70	Y	-	-	50.8	Y	Y	Y
R5342	2	15.7	D2-6	-	23.3	0.0	28.7	18.1	73.7	0.0	0.0	73.7	73.7	70	Y	-	-	50.4	Y	Y	Y
R5342	3	18.4	D2-6	-	23.4	0.0	28.7	18.1	73.4	0.0	0.0	73.4	73.4	70	Y	-	-	50.0	Y	Y	Y
R5342	4	21.1	D2-6	-	23.5	0.0	28.7	18.1	73.1	0.0	0.0	73.1	73.1	70	Y	-	-	49.6	Y	Y	Y
R5342	5	23.8	D2-6	-	23.6	0.0	28.7	18.1	72.7	0.0	0.0	72.7	72.7	70	Y	-	-	49.1	Y	Y	Y
R5342	6	26.5	D2-6	-	23.7	0.0	28.7	18.1	72.5	0.0	0.0	72.5	72.5	70	Y	-	-	48.8	Y	Y	Y
R5342	7	29.2	D2-6	-	23.9	0.0	28.7	18.1	72.1	0.0	0.0	72.1	72.1	70	Y	-	-	48.2	Y	Y	Y
R5342	8	31.9	D2-6	-	24.2	0.0	28.7	18.1	71.8	0.0	0.0	71.8	71.8	70	Y	-	-	47.6	Y	Y	Y
R5342	9	34.6	D2-6	-	24.8	0.0	28.7	18.0	71.5	0.0	0.0	71.5	71.5	70	Y	-	-	46.7	Y	Y	Y
R5342	10	37.3	D2-6	-	25.5	0.0	28.7	18.0	71.2	0.0	0.0	71.2	71.2	70	Y	-	-	45.7	Y	Y	Y
R5342	11	40.0	D2-6	-	26.9	0.0	28.7	18.0	70.9	0.0	0.0	70.9	70.9	70	Y	-	-	44.0	Y	Y	Y
R5342	12	42.7	D2-6	-	28.0	0.0	28.8	18.0	70.7	0.0	0.0	70.7	70.7	70	Y	-	-	42.7	Y	Y	Y
R5342	13	45.4	D2-6	-	29.3	0.0	28.9	18.1	70.4	0.0	0.0	70.4	70.4	70	N	-	-	41.1	Y	N	N
R5342	14	48.1	D2-6	-	29.7	0.0	29.0	18.7	70.2	0.0	0.0	70.2	70.2	70	N	-	-	40.5	Y	N	N
R5342	15	50.8	D2-6	-	30.1	0.0	29.2	19.4	70.0	0.0	0.0	70.0	70.0	70	N	-	-	39.9	Y	N	N
R5342	16	53.5	D2-6	-	30.2	0.0	29.3	20.3	69.7	0.0	0.0	69.7	69.7	70	N	-	-	39.5	Y	N	N
R5342	17	56.2	D2-6	-	30.2	0.0	29.5	21.0	69.5	0.0	0.0	69.5	69.5	70	N	-	-	39.3	Y	N	N
R5342	18	58.9	D2-6	-	30.2	0.0	29.8	21.9	69.4	0.0	0.0	69.4	69.4	70	N	-	-	39.2	Y	N	N
R5342	19	61.6	D2-6	-	30.1	0.0	30.0	22.7	69.2	0.0	0.0	69.2	69.2	70	N	-	-	39.1	Y	N	N
R5342	20	64.3	D2-6	-	30.1	0.0	30.3	23.6	69.0	0.0	0.0	69.0	69.0	70	N	-	-	38.9	Y	N	N
R5342	21	67.0	D2-6	-	30.1	0.0	30.7	24.6	68.8	0.0	0.0	68.8	68.8	70	N	-	-	38.7	Y	N	N
R5342	22	69.7	D2-6	-	30.1	0.0	31.0	25.6	68.7	0.0	0.0	68.7	68.7	70	N	-	-	38.6	Y	N	N
R5342	23	72.4	D2-6	-	30.0	0.0	31.4	26.6	68.5	0.0	0.0	68.5	68.5	70	N	-	-	38.5	Y	N	N
R5342	24	75.1	D2-6	-	30.0	0.0	31.9	27.7	68.3	0.0	0.0	68.4	68.4	70	N	-	-	38.4	Y	N	N
R5342	25	77.8	D2-6	-	29.9	0.0	32.3	28.8	68.2	0.0	0.0	68.2	68.2	70	N	-	-	38.3	Y	N	N
R5343	1	13.0	D2-6	-	23.5	0.0	27.2	19.6	73.6	0.0	0.0	73.6	73.6	70	Y	-	-	50.1	Y	Y	Y
R5343	2	15.7	D2-6	-	23.5	0.0	27.2	19.6	73.4	0.0	0.0	73.4	73.4	70	Y	-	-	49.9	Y	Y	Y
R5343	3	18.4	D2-6	-	23.5	0.0	27.3	19.6	73.1	0.0	0.0	73.1	73.1	70	Y	-	-	49.6	Y	Y	Y
R5343	4	21.1	D2-6	-	23.5	0.0	27.3	19.6	72.8	0.0	0.0	72.8	72.8	70	Y	-	-	49.3	Y	Y	Y
R5343	5	23.8	D2-6	-	23.5	0.0	27.3	19.6	72.4	0.0	0.0	72.4	72.4	70	Y	-	-	48.9	Y	Y	Y
R5343	6	26.5	D2-6	-	23.5	0.0	27.4	19.5	72.0	0.0	0.0	72.0	72.0	70	Y	-	-	48.5	Y	Y	Y
R5343	7	29.2	D2-6	-	23.5	0.0	27.4	19.5	71.8	0.0	0.0	71.8	71.8	70	Y	-	-	48.3	Y	Y	Y
R5343	8	31.9	D2-6	-	23.5	0.0	27.5	19.5	71.4	0.0	0.0	71.4	71.4	70	Y	-	-	47.9	Y	Y	Y
R5343	9	34.6	D2-6	-	23.5	0.0	27.7	19.5	71.2	0.0	0.0	71.2	71.2	70	Y	-	-	47.7	Y	Y	Y
R5343	10	37.3	D2-6	-	23.5	0.0	28.0	19.5	70.9	0.0	0.0	70.9	70.9	70	Y	-	-	47.4	Y	Y	Y
R5343	11	40.0	D2-6	-	23.5	0.0	28.4	19.5	70.6	0.0	0.0	70.6	70.6	70	Y	-	-	47.1	Y	Y	Y
R5343	12	42.7	D2-6	-	23.5	0.0	29.0	19.4	70.4	0.0	0.0	70.4	70.4	70	N	-	-	46.9	Y	N	N
R5343	13	45.4	D2-6	-	23.5	0.0	29.7	19.5	70.1	0.0	0.0	70.1	70.1	70	N	-	-	46.6	Y	N	N
R5343	14	48.1	D2-6	-	23.5	0.0	30.1	19.5	69.9	0.0	0.0	69.9	69.9	70	N	-	-	46.4	Y	N	N
R5343	15	50.8	D2-6	-	23.5	0.0	30.4	19.6	69.7	0.0	0.0	69.7	69.7	70	N	-	-	46.2	Y	N	N
R5343	16	53.5	D2-6	-	23.5	0.0	30.7	20.4	69.5	0.0	0.0	69.5	69.5	70	N	-	-	46.0	Y	N	N
R5343	17	56.2	D2-6	-	23.4	0.0	30.9	21.6	69.2	0.0	0.0	69.2	69.2	70	N	-	-	45.8	Y	N	N
R5343	18	58.9	D2-6	-	23.4	0.0	31.2	22.9	69.1	0.0	0.0	69.1	69.1	70	N	-	-	45.7	Y	N	N
R5343	19	61.6	D2-6	-	23.4	0.0	31.4	23.9	68.9	0.0	0.0	68.9	68.9	70	N	-	-	45.5	Y	N	N
R5343	20	64.3	D2-6	-	23.4	0.0	31.7	25.0	68.7	0.0	0.0	68.7	68.7	70	N	-	-	45.3	Y	N	N
R5343	21	67.0	D2-6	-	23.4	0.0	32.1	26.0	68.5	0.0	0.0	68.5	68.5	70	N	-	-	45.1	Y	N	N
R5343	22	69.7	D2-6	-	23.4	0.0	32.5	27.1	68.4	0.0	0.0	68.4	68.4	70	N	-	-	45.0	Y	N	N
R5343	23	72.4	D2-6	-	23.3	0.0	33.0	28.3	68.2	0.0	0.0	68.2	68.2	70	N	-	-	44.9	Y	N	N
R5343	24	75.1	D2-6	-	23.3	0.0	33.5	29.6	68.1	0.0	0.0	68.1	68.1	70	N	-	-	44.8	Y	N	N
R5343	25	77.8	D2-6	-	23.3	0.0	34.1	30.9	67.9	0.0	0.0	67.9	67.9	70	N	-	-	44.6	Y	N	N
R5401	1	17.0	D3-1a	-	72.2	0.0	0.0	0.0	64.8	0.0	0.0	64.8	72.9	70	Y	-	-	0.7	N	N	N
R5401	2	19.7	D3-1a	-	72.3	0.0	0.0	0.0	64.8	0.0	0.0	64.8	73.0	70	Y	-	-	0.7	N	N	N
R5401	3	22.4	D3-1a	-	72.3	0.0	0.0	0.0	64.7	0.0	0.0	64.7	73.0	70	Y	-	-	0.7	N	N	N
R5401	4	25.1	D3-1a	-	72.3	0.0	0.0	0.0	64.6	0.0	0.0	64.6	73.0	70	Y	-	-	0.7	N	N	N
R5401	5	27.8	D3-1a	-	72.1	0.0	0.0	0.0	64.5	0.0	0.0	64.5	72.8	70	Y	-	-	0.7	N	N	N
R5401	6	30.5	D3-1a	-	71.9	0.0	0.0	0.0	64.4	0.0	0.0	64.4	72.7	70	Y	-	-	0.8	N	N	N
R5401	7	33.2	D3-1a	-	71.8	0.0	0.0	0.0	64.3	0.0	0.0	64.3	72.5	70	Y	-	-	0.7	N	N	N
R5401	8	35.9	D3-1a	-	71.6	0.0	0.0	0.0	64.2	0.0	0.0	64.2	72.3	70	Y	-	-	0.7	N	N	N
R5401	9	38.6	D3-1a	-	71.4	0.0	0.0	0.0	64.0	0.0	0.0	64.0	72.1	70	Y	-	-	0.7	N	N	N
R5401	10	41.3	D3-1a	-	71.2	0.0	0.0	0.0	63.9	0.0	0.0	63.9	72.0	70	Y	-	-	0.8	N	N	N
R5401	11	44.0	D3-1a	-	71.0	0.0	0.0	0.0	63.8	0.0	0.0	63.8	71.8	70	Y	-	-	0.8	N	N	N
R5401	12	46.7	D3-1a	-	70.8	0.0	0.0	0.0	63.6	0.0	0.0	63.6	71.6	70	Y	-	-	0.8	N	N	N
R5401	13	49.4	D3-1a	-	70.7	0.0	0.0	0.0	63.5	0.0	0.0	63.5	71.4	70	Y	-	-	0.7	N	N	N
R5401	14	52.1	D3-1a	-	70.5	0.0	0.0	0.0	63.3	0.0	0.0	63.3	71.3	70	Y	-	-	0.8	N	N	N
R5401	15	54.8	D3-1a	-	70.3	0.0	0.0	0.0	63.2	0.0	0.0	63.2	71.1	70	Y	-	-	0.8	N	N	N
R5401	16	57.5	D3-1a	-	70.2	0.0	0.0	0.0	63.0	0.0	0.0	63.0	71.0	70	Y	-	-	0.8	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT													
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
R5401	17	60.2	D3-1a	-	70.0	0.0	0.0	0.0	62.9	0.0	0.0	62.9	70.8	70	Y	-	-	0.8	N	N	N
R5401	18	62.9	D3-1a	-	69.9	0.0	0.0	0.0	62.8	0.0	0.0	62.8	70.6	70	Y	-	-	0.7	N	N	N
R5401	19	65.6	D3-1a	-	69.7	0.0	0.0	0.0	62.6	0.0	0.0	62.6	70.5	70	Y	-	-	0.8	N	N	N
R5401	20	68.3	D3-1a	-	69.6	0.0	0.0	0.0	62.5	0.0	0.0	62.5	70.4	70	N	-	-	0.8	N	N	N
R5401	21	71.0	D3-1a	-	69.5	0.0	0.0	0.0	62.4	0.0	0.0	62.4	70.2	70	N	-	-	0.7	N	N	N
R5401	22	73.7	D3-1a	-	69.3	0.0	0.0	0.0	62.2	0.0	0.0	62.2	70.1	70	N	-	-	0.8	N	N	N
R5401	23	76.4	D3-1a	-	69.2	0.0	0.0	0.0	62.1	0.0	0.0	62.1	70.0	70	N	-	-	0.8	N	N	N
R5401	24	79.1	D3-1a	-	69.1	0.0	0.0	0.0	62.0	0.0	0.0	62.0	69.8	70	N	-	-	0.7	N	N	N
R5401	25	81.8	D3-1a	-	69.0	0.0	0.0	0.0	61.8	0.0	0.0	61.8	69.7	70	N	-	-	0.7	N	N	N
R5402	1	17.0	D3-1a	-	67.9	0.0	46.1	53.5	71.8	0.0	0.0	71.9	73.3	70	Y	-	-	5.4	Y	Y	Y
R5402	2	19.7	D3-1a	-	67.9	0.0	46.3	53.5	71.7	0.0	0.0	71.8	73.3	70	Y	-	-	5.4	Y	Y	Y
R5402	3	22.4	D3-1a	-	68.0	0.0	46.4	53.5	71.5	0.0	0.0	71.6	73.2	70	Y	-	-	5.2	Y	Y	Y
R5402	4	25.1	D3-1a	-	67.9	0.0	46.6	53.5	71.4	0.0	0.0	71.5	73.0	70	Y	-	-	5.1	Y	Y	Y
R5402	5	27.8	D3-1a	-	67.8	0.0	46.8	53.5	71.2	0.0	0.0	71.3	72.9	70	Y	-	-	5.1	Y	Y	Y
R5402	6	30.5	D3-1a	-	67.7	0.0	47.0	53.5	71.0	0.0	0.0	71.1	72.7	70	Y	-	-	5.0	Y	Y	Y
R5402	7	33.2	D3-1a	-	67.6	0.0	47.2	53.5	70.8	0.0	0.0	70.9	72.6	70	Y	-	-	5.0	Y	Y	Y
R5402	8	35.9	D3-1a	-	67.4	0.0	47.4	53.5	70.6	0.0	0.0	70.7	72.4	70	Y	-	-	5.0	Y	Y	Y
R5402	9	38.6	D3-1a	-	67.3	0.0	47.5	53.5	70.4	0.0	0.0	70.5	72.2	70	Y	-	-	4.9	Y	Y	Y
R5402	10	41.3	D3-1a	-	67.2	0.0	47.6	53.5	70.2	0.0	0.0	70.3	72.0	70	Y	-	-	4.8	Y	N	Y
R5402	11	44.0	D3-1a	-	67.1	0.0	47.7	53.6	70.0	0.0	0.0	70.1	71.9	70	Y	-	-	4.8	Y	N	Y
R5402	12	46.7	D3-1a	-	67.0	0.0	48.0	53.6	69.8	0.0	0.0	69.9	71.7	70	Y	-	-	4.7	Y	N	Y
R5402	13	49.4	D3-1a	-	66.8	0.0	48.0	53.7	69.6	0.0	0.0	69.7	71.5	70	Y	-	-	4.7	Y	N	Y
R5402	14	52.1	D3-1a	-	66.7	0.0	48.1	53.9	69.4	0.0	0.0	69.6	71.4	70	Y	-	-	4.7	Y	N	Y
R5402	15	54.8	D3-1a	-	66.6	0.0	48.1	54.2	69.2	0.0	0.0	69.4	71.2	70	Y	-	-	4.6	Y	N	Y
R5402	16	57.5	D3-1a	-	66.4	0.0	48.2	54.5	69.0	0.0	0.0	69.2	71.1	70	Y	-	-	4.7	Y	N	Y
R5402	17	60.2	D3-1a	-	66.3	0.0	48.2	54.8	68.9	0.0	0.0	69.1	70.9	70	Y	-	-	4.6	Y	N	Y
R5402	18	62.9	D3-1a	-	66.2	0.0	48.3	55.1	68.7	0.0	0.0	68.9	70.8	70	Y	-	-	4.6	Y	N	Y
R5402	19	65.6	D3-1a	-	66.0	0.0	48.4	55.3	68.5	0.0	0.0	68.8	70.6	70	Y	-	-	4.6	Y	N	Y
R5402	20	68.3	D3-1a	-	65.9	0.0	48.5	55.6	68.4	0.0	0.0	68.7	70.5	70	Y	-	-	4.6	Y	N	Y
R5402	21	71.0	D3-1a	-	65.8	0.0	48.5	56.0	68.3	0.0	0.0	68.6	70.4	70	N	-	-	4.6	Y	N	N
R5402	22	73.7	D3-1a	-	65.7	0.0	48.5	56.4	68.1	0.0	0.0	68.4	70.3	70	N	-	-	4.6	Y	N	N
R5402	23	76.4	D3-1a	-	65.6	0.0	48.6	56.7	68.0	0.0	0.0	68.3	70.2	70	N	-	-	4.6	Y	N	N
R5402	24	79.1	D3-1a	-	65.5	0.0	48.6	56.9	67.8	0.0	0.0	68.2	70.1	70	N	-	-	4.6	Y	N	N
R5402	25	81.8	D3-1a	-	65.4	0.0	48.7	57.2	67.7	0.0	0.0	68.1	70.0	70	N	-	-	4.6	Y	N	N
R5403	1	17.0	D3-1a	-	64.1	0.0	43.9	56.5	72.8	0.0	0.0	72.9	73.4	70	Y	-	-	9.3	Y	Y	Y
R5403	2	19.7	D3-1a	-	64.1	0.0	43.9	56.5	72.7	0.0	0.0	72.8	73.3	70	Y	-	-	9.2	Y	Y	Y
R5403	3	22.4	D3-1a	-	64.1	0.0	43.9	56.5	72.5	0.0	0.0	72.6	73.2	70	Y	-	-	9.1	Y	Y	Y
R5403	4	25.1	D3-1a	-	64.1	0.0	43.9	56.5	72.3	0.0	0.0	72.4	73.0	70	Y	-	-	8.9	Y	Y	Y
R5403	5	27.8	D3-1a	-	64.1	0.0	43.9	56.5	72.1	0.0	0.0	72.3	72.9	70	Y	-	-	8.8	Y	Y	Y
R5403	6	30.5	D3-1a	-	64.0	0.0	43.9	56.5	71.9	0.0	0.0	72.1	72.7	70	Y	-	-	8.7	Y	Y	Y
R5403	7	33.2	D3-1a	-	64.0	0.0	43.9	56.5	71.7	0.0	0.0	71.9	72.5	70	Y	-	-	8.5	Y	Y	Y
R5403	8	35.9	D3-1a	-	63.9	0.0	43.9	56.5	71.5	0.0	0.0	71.7	72.3	70	Y	-	-	8.4	Y	Y	Y
R5403	9	38.6	D3-1a	-	63.9	0.0	43.9	56.5	71.3	0.0	0.0	71.5	72.2	70	Y	-	-	8.3	Y	Y	Y
R5403	10	41.3	D3-1a	-	63.8	0.0	43.9	56.5	71.1	0.0	0.0	71.3	72.0	70	Y	-	-	8.2	Y	Y	Y
R5403	11	44.0	D3-1a	-	63.8	0.0	43.9	56.6	70.9	0.0	0.0	71.1	71.8	70	Y	-	-	8.0	Y	Y	Y
R5403	12	46.7	D3-1a	-	63.7	0.0	43.9	56.9	70.7	0.0	0.0	70.9	71.7	70	Y	-	-	8.0	Y	Y	Y
R5403	13	49.4	D3-1a	-	63.6	0.0	43.9	57.2	70.5	0.0	0.0	70.7	71.5	70	Y	-	-	7.9	Y	Y	Y
R5403	14	52.1	D3-1a	-	63.6	0.0	43.9	57.4	70.3	0.0	0.0	70.6	71.3	70	Y	-	-	7.7	Y	Y	Y
R5403	15	54.8	D3-1a	-	63.5	0.0	43.8	57.6	70.2	0.0	0.0	70.4	71.2	70	Y	-	-	7.7	Y	N	Y
R5403	16	57.5	D3-1a	-	63.4	0.0	43.8	57.9	70.0	0.0	0.0	70.3	71.1	70	Y	-	-	7.7	Y	N	Y
R5403	17	60.2	D3-1a	-	63.4	0.0	43.8	58.3	69.8	0.0	0.0	70.1	71.0	70	Y	-	-	7.6	Y	N	Y
R5403	18	62.9	D3-1a	-	63.3	0.0	43.8	58.8	69.6	0.0	0.0	70.0	70.8	70	Y	-	-	7.5	Y	N	Y
R5403	19	65.6	D3-1a	-	63.2	0.0	43.8	59.1	69.5	0.0	0.0	69.9	70.7	70	Y	-	-	7.5	Y	N	Y
R5403	20	68.3	D3-1a	-	63.2	0.0	43.8	59.2	69.3	0.0	0.0	69.7	70.6	70	Y	-	-	7.4	Y	N	Y
R5403	21	71.0	D3-1a	-	63.1	0.0	43.8	59.3	69.2	0.0	0.0	69.6	70.5	70	Y	-	-	7.4	Y	N	Y
R5403	22	73.7	D3-1a	-	63.0	0.0	43.8	59.3	69.0	0.0	0.0	69.5	70.4	70	N	-	-	7.4	Y	N	N
R5403	23	76.4	D3-1a	-	63.0	0.0	43.7	59.3	68.9	0.0	0.0	69.3	70.2	70	N	-	-	7.2	Y	N	N
R5403	24	79.1	D3-1a	-	62.9	0.0	43.7	59.3	68.7	0.0	0.0	69.2	70.1	70	N	-	-	7.2	Y	N	N
R5403	25	81.8	D3-1a	-	62.8	0.0	43.7	59.3	68.6	0.0	0.0	69.1	70.0	70	N	-	-	7.2	Y	N	N
R5403	26	84.5	D3-1a	-	62.8	0.0	43.7	59.3	68.4	0.0	0.0	69.0	69.9	70	N	-	-	7.1	Y	N	N
R5403	27	87.2	D3-1a	-	62.7	0.0	43.7	59.2	68.3	0.0	0.0	68.8	69.8	70	N	-	-	7.1	Y	N	N
R5403	28	89.9	D3-1a	-	62.6	0.0	43.7	59.2	68.2	0.0	0.0	68.7	69.7	70	N	-	-	7.1	Y	N	N
R5403	29	92.6	D3-1a	-	62.5	0.0	43.7	59.2	68.1	0.0	0.0	68.6	69.6	70	N	-	-	7.1	Y	N	N
R5403	30	95.3	D3-1a	-	62.5	0.0	43.6	59.2	67.9	0.0	0.0	68.5	69.5	70	N	-	-	7.0	Y	N	N
R5404	1	17.0	D3-1a	-	14.2	0.0	31.1	56.8	72.9	0.0	0.0	73.0	73.0	70	Y	-	-	58.6	Y	Y	Y
R5404	2	19.7	D3-1a	-	14.5	0.0	31.1	56.8	72.7	0.0	0.0	72.9	72.9	70	Y	-	-	58.2	Y	Y	Y
R5404	3	22.4	D3-1a	-	14.7	0.0	31.1	56.8	72.6	0.0	0.0	72.7	72.7	70	Y	-	-	57.9	Y	Y	Y
R5404	4	25.1	D3-1a	-	15.0	0.0	31.1	56.8	72.4	0.0	0.0	72.5	72.5	70	Y	-	-	57.4	Y	Y	Y
R5404	5	27.8	D3-1a	-	15.3	0.0	31.1	56.8	72.2	0.0	0.0	72.4	72.4	70	Y	-	-	57.0	Y	Y	Y
R5404	6	30.5	D3-1a	-	15.5	0.0	31.1	56.8	72.1	0.0	0.0	72.2	72.2	70	Y	-	-	56.6	Y	Y	Y
R5404	7	33.2	D3-1a	-	15.8	0.0	31.1	56.8	71.9	0.0	0.0	72.0	72.0	70	Y	-	-	56.1	Y	Y	Y
R5404	8	35.9	D3-1a	-	16.2	0.0	31.1	56.8	71.7	0.0	0.0	71.9	71.9	70	Y	-	-	55.6	Y	Y	Y
R5404	9	38.6	D3-1a	-	16.5	0.0	31.1	56.8	71.5	0.0	0.0	71.7	71.7	70	Y	-	-	55.1	Y	Y	Y
R5404	10	41.3	D3-1a	-	16.9	0.0	31.1	56.9	71.3	0.0	0.0	71.5	71.5	70	Y	-	-	54.5	Y	Y	Y
R5404	11	44.0	D3-1a	-	17.2	0.0	31.1	57.0	71.1	0.0	0.0	71.3	71.3	70	Y	-	-	54.0	Y	Y	Y
R5404	12	46.7	D3-1a	-	17.6	0.0	31.1	57.3	70.9	0.0	0.0	71.1	71.1	70	Y	-	-	53.4	Y	Y	Y
R5404	13	49.4	D3-1a	-	18.0	0.0	31.1	57.5	70.8	0.0	0.0	71.0	71.0	70	Y	-	-	52.9	Y	Y	Y
R5404	14	52.1	D3-1a	-	18.5	0.0	31.0	57.7	70.6	0.0	0.0	70.8	70.8	70	Y	-	-	52.2	Y	Y	Y
R5404	15	54.8	D3-1a	-	18.9	0.0	31.0	58.0	70.4	0.0	0.0	70.7	70.7	70	Y	-	-	51.7	Y	Y	Y
R5404	16	57.5	D3-1a	-	19.3	0.0	31.0	58.5	70.3	0.0	0.0	70.5	70.5	70	Y	-	-	51.1	Y	Y	Y
R5404	17	60.2	D3-1a	-	19.8	0.0	31.1	58.8	70.1	0.0	0.0	70.4	70.4	70	N	-	-	50.6	Y	N	N
R5404	18	62.9	D3-1a	-	20.3	0.0	31.3	59.0	70.0	0.0	0.0	70.3	70.3	70	N	-	-	50.0	Y	N	N
R5404	19	65.6	D3-1a	-	20.8	0.0	31.9	59.1	69.8	0.0	0.0	70.1	70.1	70	N	-	-	49.3	Y	N	N
R5404	20	68.3	D3-1a	-	21.4	0.0	32.7	59.1	69.6	0.0	0.0	70.0	70.0	70	N	-	-	48.6	Y	N	N
R5404	21	71.0	D3-1a	-	22.0	0.0	33.5	59.1	69.5	0.0	0.0	69.9	69.9	70	N	-	-	47.9	Y	N	N
R5404	22	73.7	D3-1a	-	22.5	0.0	34.4	59.1	69.4	0.0	0.0	69.8	69.8	70	N	-	-	47.3	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT													
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	New Roads[2]					New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
R5404	23	76.4	D3-1a	-	23.1	0.0	35.3	59.0	69.2	0.0	0.0	69.6	69.6	70	N	-	-	46.5	Y	N	N
R5404	24	79.1	D3-1a	-	23.8	0.0	36.3	59.0	69.1	0.0	0.0	69.5	69.5	70	N	-	-	45.7	Y	N	N
R5404	25	81.8	D3-1a	-	24.5	0.0	37.4	59.0	68.9	0.0	0.0	69.4	69.4	70	N	-	-	44.9	Y	N	N
R5404	26	84.5	D3-1a	-	25.3	0.0	38.4	58.9	68.8	0.0	0.0	69.3	69.3	70	N	-	-	44.0	Y	N	N
R5404	27	87.2	D3-1a	-	26.0	0.0	39.6	58.9	68.7	0.0	0.0	69.2	69.2	70	N	-	-	43.2	Y	N	N
R5404	28	89.9	D3-1a	-	26.9	0.0	40.8	58.9	68.6	0.0	0.0	69.0	69.0	70	N	-	-	42.1	Y	N	N
R5404	29	92.6	D3-1a	-	27.9	0.0	42.1	58.9	68.5	0.0	0.0	68.9	68.9	70	N	-	-	41.0	Y	N	N
R5404	30	95.3	D3-1a	-	29.4	0.0	43.5	58.8	68.4	0.0	0.0	68.8	68.8	70	N	-	-	39.4	Y	N	N
R5421	1	22.5	D3-3	-	25.0	0.0	51.0	43.4	66.8	0.0	0.0	67.0	67.0	70	N	-	-	42.0	Y	N	N
R5421	2	25.5	D3-3	-	24.9	0.0	51.4	43.4	69.3	0.0	0.0	69.4	69.4	70	N	-	-	44.5	Y	N	N
R5421	3	28.5	D3-3	-	24.9	0.0	51.8	43.4	69.7	0.0	0.0	69.8	69.8	70	N	-	-	44.9	Y	N	N
R5421	4	31.5	D3-3	-	24.9	0.0	52.1	43.4	69.7	0.0	0.0	69.8	69.8	70	N	-	-	44.9	Y	N	N
R5421	5	34.5	D3-3	-	24.9	0.0	52.5	43.4	69.5	0.0	0.0	69.6	69.6	70	N	-	-	44.7	Y	N	N
R5421	6	37.5	D3-3	-	24.9	0.0	52.8	43.4	69.3	0.0	0.0	69.5	69.5	70	N	-	-	44.6	Y	N	N
R5421	7	40.5	D3-3	-	24.9	0.0	53.1	43.4	69.2	0.0	0.0	69.3	69.3	70	N	-	-	44.4	Y	N	N
R5421	8	43.5	D3-3	-	24.9	0.0	53.4	43.4	69.0	0.0	0.0	69.1	69.1	70	N	-	-	44.2	Y	N	N
R5421	9	46.5	D3-3	-	24.9	0.0	53.7	43.4	68.8	0.0	0.0	68.9	68.9	70	N	-	-	44.0	Y	N	N
R5421	10	49.5	D3-3	-	24.9	0.0	53.9	43.3	68.6	0.0	0.0	68.7	68.7	70	N	-	-	43.8	Y	N	N
R5421	11	52.5	D3-3	-	24.9	0.0	54.1	43.3	68.4	0.0	0.0	68.6	68.6	70	N	-	-	43.7	Y	N	N
R5421	12	55.5	D3-3	-	24.9	0.0	54.3	43.3	68.2	0.0	0.0	68.4	68.4	70	N	-	-	43.5	Y	N	N
R5421	13	58.5	D3-3	-	24.9	0.0	54.5	43.3	68.1	0.0	0.0	68.3	68.3	70	N	-	-	43.4	Y	N	N
R5421	14	61.5	D3-3	-	24.8	0.0	54.6	43.3	67.9	0.0	0.0	68.1	68.1	70	N	-	-	43.3	Y	N	N
R5421	15	64.5	D3-3	-	24.8	0.0	54.8	43.3	67.7	0.0	0.0	67.9	67.9	70	N	-	-	43.1	Y	N	N
R5421	16	67.5	D3-3	-	24.8	0.0	54.9	43.3	67.5	0.0	0.0	67.8	67.8	70	N	-	-	43.0	Y	N	N
R5421	17	70.5	D3-3	-	24.7	0.0	55.0	43.3	67.4	0.0	0.0	67.7	67.7	70	N	-	-	43.0	Y	N	N
R5421	18	73.5	D3-3	-	24.8	0.0	55.1	43.3	67.2	0.0	0.0	67.5	67.5	70	N	-	-	42.7	Y	N	N
R5421	19	76.5	D3-3	-	24.8	0.0	55.3	43.2	67.1	0.0	0.0	67.4	67.4	70	N	-	-	42.6	Y	N	N
R5421	20	79.5	D3-3	-	24.8	0.0	55.4	43.3	66.9	0.0	0.0	67.3	67.3	70	N	-	-	42.5	Y	N	N
R5421	21	82.5	D3-3	-	24.7	0.0	55.5	43.3	66.8	0.0	0.0	67.1	67.1	70	N	-	-	42.4	Y	N	N
R5421	22	85.5	D3-3	-	24.7	0.0	55.7	43.3	66.7	0.0	0.0	67.0	67.0	70	N	-	-	42.3	Y	N	N
R5421	23	88.5	D3-3	-	24.7	0.0	56.1	43.3	66.5	0.0	0.0	66.9	66.9	70	N	-	-	42.2	Y	N	N
R5421	24	91.5	D3-3	-	24.7	0.0	56.7	43.3	66.4	0.0	0.0	66.8	66.8	70	N	-	-	42.1	Y	N	N
R5421	25	94.5	D3-3	-	24.7	0.0	57.7	43.3	66.2	0.0	0.0	66.8	66.8	70	N	-	-	42.1	Y	N	N
R5421	26	97.5	D3-3	-	24.6	0.0	58.9	43.3	66.1	0.0	0.0	66.9	66.9	70	N	-	-	42.3	Y	N	N
R5421	27	100.5	D3-3	-	24.7	0.0	59.8	43.4	66.0	0.0	0.0	67.0	67.0	70	N	-	-	42.3	Y	N	N
R5421	28	103.5	D3-3	-	24.8	0.0	60.2	43.5	65.9	0.0	0.0	66.9	66.9	70	N	-	-	42.1	Y	N	N
R5421	29	106.5	D3-3	-	25.0	0.0	60.3	43.7	65.8	0.0	0.0	66.9	66.9	70	N	-	-	41.9	Y	N	N
R5421	30	109.5	D3-3	-	25.3	0.0	60.4	44.0	65.7	0.0	0.0	66.8	66.8	70	N	-	-	41.5	Y	N	N
R5422	1	22.5	D3-3	-	0.0	0.0	50.6	48.9	59.3	0.0	0.0	60.2	60.2	70	N	-	-	57.2	Y	N	N
R5422	2	25.5	D3-3	-	0.0	0.0	51.0	48.9	64.0	0.0	0.0	64.3	64.3	70	N	-	-	61.3	Y	N	N
R5422	3	28.5	D3-3	-	0.0	0.0	51.3	48.9	66.5	0.0	0.0	66.7	66.7	70	N	-	-	63.7	Y	N	N
R5422	4	31.5	D3-3	-	0.0	0.0	51.7	48.8	67.1	0.0	0.0	67.3	67.3	70	N	-	-	64.3	Y	N	N
R5422	5	34.5	D3-3	-	0.0	0.0	52.1	48.8	67.2	0.0	0.0	67.4	67.4	70	N	-	-	64.4	Y	N	N
R5422	6	37.5	D3-3	-	0.0	0.0	52.5	48.7	67.2	0.0	0.0	67.4	67.4	70	N	-	-	64.4	Y	N	N
R5422	7	40.5	D3-3	-	0.0	0.0	52.8	48.6	67.1	0.0	0.0	67.3	67.3	70	N	-	-	64.3	Y	N	N
R5422	8	43.5	D3-3	-	0.0	0.0	53.1	48.6	67.0	0.0	0.0	67.2	67.2	70	N	-	-	64.2	Y	N	N
R5422	9	46.5	D3-3	-	0.0	0.0	53.3	48.5	66.8	0.0	0.0	67.1	67.1	70	N	-	-	64.1	Y	N	N
R5422	10	49.5	D3-3	-	0.0	0.0	53.6	48.5	66.7	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
R5422	11	52.5	D3-3	-	0.0	0.0	53.8	48.4	66.6	0.0	0.0	66.9	66.9	70	N	-	-	63.9	Y	N	N
R5422	12	55.5	D3-3	-	0.0	0.0	54.0	48.4	66.4	0.0	0.0	66.7	66.7	70	N	-	-	63.7	Y	N	N
R5422	13	58.5	D3-3	-	0.0	0.0	54.2	48.3	66.2	0.0	0.0	66.6	66.6	70	N	-	-	63.6	Y	N	N
R5422	14	61.5	D3-3	-	0.0	0.0	54.4	48.2	66.1	0.0	0.0	66.4	66.4	70	N	-	-	63.4	Y	N	N
R5422	15	64.5	D3-3	-	0.0	0.0	54.5	48.2	65.9	0.0	0.0	66.3	66.3	70	N	-	-	63.3	Y	N	N
R5422	16	67.5	D3-3	-	0.0	0.0	54.7	48.1	65.8	0.0	0.0	66.2	66.2	70	N	-	-	63.2	Y	N	N
R5422	17	70.5	D3-3	-	0.0	0.0	54.8	48.1	65.6	0.0	0.0	66.0	66.0	70	N	-	-	63.0	Y	N	N
R5422	18	73.5	D3-3	-	0.0	0.0	54.9	48.0	65.5	0.0	0.0	65.9	65.9	70	N	-	-	62.9	Y	N	N
R5422	19	76.5	D3-3	-	0.0	0.0	55.1	48.1	65.3	0.0	0.0	65.8	65.8	70	N	-	-	62.8	Y	N	N
R5422	20	79.5	D3-3	-	0.0	0.0	55.2	48.4	65.2	0.0	0.0	65.7	65.7	70	N	-	-	62.7	Y	N	N
R5422	21	82.5	D3-3	-	0.0	0.0	55.4	49.4	65.0	0.0	0.0	65.6	65.6	70	N	-	-	62.6	Y	N	N
R5422	22	85.5	D3-3	-	0.0	0.0	55.7	50.1	64.9	0.0	0.0	65.5	65.5	70	N	-	-	62.5	Y	N	N
R5422	23	88.5	D3-3	-	0.0	0.0	56.1	50.2	64.8	0.0	0.0	65.5	65.5	70	N	-	-	62.5	Y	N	N
R5422	24	91.5	D3-3	-	0.0	0.0	57.0	50.2	64.6	0.0	0.0	65.5	65.5	70	N	-	-	62.5	Y	N	N
R5422	25	94.5	D3-3	-	0.0	0.0	58.3	50.1	64.5	0.0	0.0	65.6	65.6	70	N	-	-	62.6	Y	N	N
R5422	26	97.5	D3-3	-	0.0	0.0	59.4	50.0	64.4	0.0	0.0	65.7	65.7	70	N	-	-	62.7	Y	N	N
R5422	27	100.5	D3-3	-	0.0	0.0	60.1	50.0	64.3	0.0	0.0	65.8	65.8	70	N	-	-	62.8	Y	N	N
R5422	28	103.5	D3-3	-	0.0	0.0	60.4	49.9	64.2	0.0	0.0	65.8	65.8	70	N	-	-	62.8	Y	N	N
R5422	29	106.5	D3-3	-	0.0	0.0	60.6	49.9	64.1	0.0	0.0	65.8	65.8	70	N	-	-	62.8	Y	N	N
R5422	30	109.5	D3-3	-	0.0	0.0	60.7	49.9	63.9	0.0	0.0	65.7	65.7	70	N	-	-	62.7	Y	N	N
R5423	1	22.5	D3-3	-	23.9	0.0	50.8	21.2	63.5	0.0	0.0	63.7	63.7	70	N	-	-	39.8	Y	N	N
R5423	2	25.5	D3-3	-	23.9	0.0	51.1	21.2	67.3	0.0	0.0	67.4	67.4	70	N	-	-	43.5	Y	N	N
R5423	3	28.5	D3-3	-	23.9	0.0	51.4	21.2	68.5	0.0	0.0	68.6	68.6	70	N	-	-	44.7	Y	N	N
R5423	4	31.5	D3-3	-	23.9	0.0	51.9	21.2	68.7	0.0	0.0	68.8	68.8	70	N	-	-	44.9	Y	N	N
R5423	5	34.5	D3-3	-	23.9	0.0	52.3	21.2	68.7	0.0	0.0	68.8	68.8	70	N	-	-	44.9	Y	N	N
R5423	6	37.5	D3-3	-	23.9	0.0	52.6	21.2	68.6	0.0	0.0	68.7	68.7	70	N	-	-	44.8	Y	N	N
R5423	7	40.5	D3-3	-	23.9	0.0	53.0	21.2	68.4	0.0	0.0	68.6	68.6	70	N	-	-	44.7	Y	N	N
R5423	8	43.5	D3-3	-	23.9	0.0	53.3	21.1	68.3	0.0	0.0	68.4	68.4	70	N	-	-	44.5	Y	N	N
R5423	9	46.5	D3-3	-	23.9	0.0	53.6	21.2	68.1	0.0	0.0	68.3	68.3	70	N	-	-	44.4	Y	N	N
R5423	10	49.5	D3-3	-	23.9	0.0	53.8	21.3	67.9	0.0	0.0	68.1	68.1	70	N	-	-	44.2	Y	N	N
R5423	11	52.5	D3-3	-	23.9	0.0	54.0	21.6	67.8	0.0	0.0	67.9	67.9	70	N	-	-	44.0	Y	N	N
R5423	12	55.5	D3-3	-	23.9	0.0	54.2	22.0	67.6	0.0	0.0	67.8	67.8	70	N	-	-	43.9	Y	N	N
R5423	13	58.5	D3-3	-	23.9	0.0	54.4	23.3	67.4	0.0	0.0	67.6	67.6	70	N	-	-	43.7	Y	N	N
R5423	14	61.5	D3-3	-	23.9	0.0	54.5	24.8	67.3	0.0	0.0	67.5	67.5	70	N	-	-	43.6	Y	N	N
R5423	15	64.5	D3-3	-	23.8	0.0	54.7	26.4	67.1	0.0	0.0	67.3	67.3	70	N	-	-	43.5	Y	N	N
R5423	16	67.5	D3-3	-	23.8	0.0	54.8	28.1	67.0	0.0	0.0	67.2	67.2	70	N	-	-	43.4	Y	N	N
R5423	17	70.5	D3-3	-	23.8	0.0	54.9	30.1	66.8	0.0	0.0	67.1	67.1	70	N	-	-	43.3	Y	N	N
R5423	18	73.5	D3-3	-	23.8	0.0	55.0	32.1	66.7	0.0	0.0	66.9	66.9	70	N	-	-	43.1	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
R5423	19	76.5	D3-3	-	23.8	0.0	55.1	34.5	66.5	0.0	0.0	66.8	66.8	70	N	-	-	43.0	Y	N	N
R5423	20	79.5	D3-3	-	23.8	0.0	55.3	37.2	66.4	0.0	0.0	66.7	66.7	70	N	-	-	42.9	Y	N	N
R5423	21	82.5	D3-3	-	23.8	0.0	55.5	41.1	66.3	0.0	0.0	66.6	66.6	70	N	-	-	42.8	Y	N	N
R5423	22	85.5	D3-3	-	23.8	0.0	55.8	45.2	66.1	0.0	0.0	66.6	66.6	70	N	-	-	42.8	Y	N	N
R5423	23	88.5	D3-3	-	23.7	0.0	56.3	47.5	66.0	0.0	0.0	66.5	66.5	70	N	-	-	42.8	Y	N	N
R5423	24	91.5	D3-3	-	23.8	0.0	57.4	49.2	65.9	0.0	0.0	66.5	66.5	70	N	-	-	42.7	Y	N	N
R5423	25	94.5	D3-3	-	23.8	0.0	58.9	50.0	65.7	0.0	0.0	66.7	66.7	70	N	-	-	42.9	Y	N	N
R5423	26	97.5	D3-3	-	23.8	0.0	59.8	50.4	65.7	0.0	0.0	66.8	66.8	70	N	-	-	43.0	Y	N	N
R5423	27	100.5	D3-3	-	23.8	0.0	60.2	50.5	65.5	0.0	0.0	66.7	66.7	70	N	-	-	42.9	Y	N	N
R5423	28	103.5	D3-3	-	23.8	0.0	60.3	50.5	65.4	0.0	0.0	66.7	66.7	70	N	-	-	42.9	Y	N	N
R5423	29	106.5	D3-3	-	23.8	0.0	60.4	50.5	65.3	0.0	0.0	66.6	66.6	70	N	-	-	42.8	Y	N	N
R5423	30	109.5	D3-3	-	23.9	0.0	60.4	50.5	65.2	0.0	0.0	66.6	66.6	70	N	-	-	42.7	Y	N	N
R5424	1	22.5	D3-3	-	0.0	0.0	49.2	21.5	65.3	0.0	0.0	65.4	65.4	70	N	-	-	62.4	Y	N	N
R5424	2	25.5	D3-3	-	0.0	0.0	49.5	21.5	69.2	0.0	0.0	69.2	69.2	70	N	-	-	66.2	Y	N	N
R5424	3	28.5	D3-3	-	0.0	0.0	49.9	21.5	69.7	0.0	0.0	69.8	69.8	70	N	-	-	66.8	Y	N	N
R5424	4	31.5	D3-3	-	0.0	0.0	50.3	21.5	69.7	0.0	0.0	69.7	69.7	70	N	-	-	66.7	Y	N	N
R5424	5	34.5	D3-3	-	0.0	0.0	50.7	21.5	69.4	0.0	0.0	69.5	69.5	70	N	-	-	66.5	Y	N	N
R5424	6	37.5	D3-3	-	0.0	0.0	51.1	21.4	69.2	0.0	0.0	69.3	69.3	70	N	-	-	66.3	Y	N	N
R5424	7	40.5	D3-3	-	0.0	0.0	51.3	21.4	69.0	0.0	0.0	69.1	69.1	70	N	-	-	66.1	Y	N	N
R5424	8	43.5	D3-3	-	0.0	0.0	51.6	21.4	68.8	0.0	0.0	68.9	68.9	70	N	-	-	65.9	Y	N	N
R5424	9	46.5	D3-3	-	0.0	0.0	52.0	21.4	68.6	0.0	0.0	68.7	68.7	70	N	-	-	65.7	Y	N	N
R5424	10	49.5	D3-3	-	0.0	0.0	52.2	21.6	68.4	0.0	0.0	68.5	68.5	70	N	-	-	65.5	Y	N	N
R5424	11	52.5	D3-3	-	0.0	0.0	52.4	21.9	68.2	0.0	0.0	68.3	68.3	70	N	-	-	65.3	Y	N	N
R5424	12	55.5	D3-3	-	0.0	0.0	52.6	22.6	68.0	0.0	0.0	68.1	68.1	70	N	-	-	65.1	Y	N	N
R5424	13	58.5	D3-3	-	0.0	0.0	52.8	24.0	67.8	0.0	0.0	68.0	68.0	70	N	-	-	65.0	Y	N	N
R5424	14	61.5	D3-3	-	0.0	0.0	53.0	25.6	67.6	0.0	0.0	67.8	67.8	70	N	-	-	64.8	Y	N	N
R5424	15	64.5	D3-3	-	0.0	0.0	53.1	27.3	67.5	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
R5424	16	67.5	D3-3	-	0.0	0.0	53.2	29.1	67.3	0.0	0.0	67.4	67.4	70	N	-	-	64.4	Y	N	N
R5424	17	70.5	D3-3	-	0.0	0.0	53.4	31.1	67.1	0.0	0.0	67.3	67.3	70	N	-	-	64.3	Y	N	N
R5424	18	73.5	D3-3	-	0.0	0.0	53.6	33.4	67.0	0.0	0.0	67.2	67.2	70	N	-	-	64.2	Y	N	N
R5424	19	76.5	D3-3	-	0.0	0.0	53.7	35.8	66.8	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
R5424	20	79.5	D3-3	-	0.0	0.0	54.0	38.7	66.6	0.0	0.0	66.9	66.9	70	N	-	-	63.9	Y	N	N
R5424	21	82.5	D3-3	-	0.0	0.0	54.3	42.9	66.5	0.0	0.0	66.8	66.8	70	N	-	-	63.8	Y	N	N
R5424	22	85.5	D3-3	-	0.0	0.0	54.8	47.2	66.3	0.0	0.0	66.7	66.7	70	N	-	-	63.7	Y	N	N
R5424	23	88.5	D3-3	-	0.0	0.0	55.6	49.6	66.2	0.0	0.0	66.7	66.7	70	N	-	-	63.7	Y	N	N
R5424	24	91.5	D3-3	-	0.0	0.0	57.1	50.5	66.1	0.0	0.0	66.7	66.7	70	N	-	-	63.7	Y	N	N
R5424	25	94.5	D3-3	-	0.0	0.0	58.7	50.8	65.9	0.0	0.0	66.8	66.8	70	N	-	-	63.8	Y	N	N
R5424	26	97.5	D3-3	-	0.0	0.0	59.7	50.9	65.8	0.0	0.0	66.9	66.9	70	N	-	-	63.9	Y	N	N
R5424	27	100.5	D3-3	-	0.0	0.0	60.1	50.9	65.7	0.0	0.0	66.9	66.9	70	N	-	-	63.9	Y	N	N
R5424	28	103.5	D3-3	-	0.0	0.0	60.3	50.9	65.6	0.0	0.0	66.8	66.8	70	N	-	-	63.8	Y	N	N
R5424	29	106.5	D3-3	-	0.0	0.0	60.4	50.8	65.4	0.0	0.0	66.7	66.7	70	N	-	-	63.7	Y	N	N
R5424	30	109.5	D3-3	-	0.0	0.0	60.6	50.8	65.3	0.0	0.0	66.7	66.7	70	N	-	-	63.7	Y	N	N
R5441	1	22.5	D3-4	-	0.0	0.0	42.1	45.3	65.0	0.0	0.0	65.1	65.1	70	N	-	-	62.1	Y	N	N
R5441	2	25.5	D3-4	-	0.0	0.0	42.5	45.3	69.3	0.0	0.0	69.3	69.3	70	N	-	-	66.3	Y	N	N
R5441	3	28.5	D3-4	-	0.0	0.0	42.9	45.3	70.2	0.0	0.0	70.2	70.2	70	N	-	-	67.2	Y	N	N
R5441	4	31.5	D3-4	-	0.0	0.0	43.3	45.3	70.2	0.0	0.0	70.2	70.2	70	N	-	-	67.2	Y	N	N
R5441	5	34.5	D3-4	-	0.0	0.0	43.3	45.3	70.0	0.0	0.0	70.0	70.0	70	N	-	-	67.0	Y	N	N
R5441	6	37.5	D3-4	-	0.0	0.0	43.5	45.3	69.8	0.0	0.0	69.8	69.8	70	N	-	-	66.8	Y	N	N
R5441	7	40.5	D3-4	-	0.0	0.0	43.7	45.3	69.6	0.0	0.0	69.6	69.6	70	N	-	-	66.6	Y	N	N
R5441	8	43.5	D3-4	-	0.0	0.0	43.9	45.2	69.3	0.0	0.0	69.3	69.3	70	N	-	-	66.3	Y	N	N
R5441	9	46.5	D3-4	-	0.0	0.0	44.1	45.2	69.1	0.0	0.0	69.1	69.1	70	N	-	-	66.1	Y	N	N
R5441	10	49.5	D3-4	-	0.0	0.0	44.4	45.2	68.9	0.0	0.0	68.9	68.9	70	N	-	-	65.9	Y	N	N
R5441	11	52.5	D3-4	-	0.0	0.0	44.7	45.2	68.7	0.0	0.0	68.7	68.7	70	N	-	-	65.7	Y	N	N
R5441	12	55.5	D3-4	-	0.0	0.0	44.9	45.2	68.5	0.0	0.0	68.5	68.5	70	N	-	-	65.5	Y	N	N
R5441	13	58.5	D3-4	-	0.0	0.0	45.2	45.2	68.3	0.0	0.0	68.3	68.3	70	N	-	-	65.3	Y	N	N
R5441	14	61.5	D3-4	-	0.0	0.0	45.5	45.2	68.1	0.0	0.0	68.1	68.1	70	N	-	-	65.1	Y	N	N
R5441	15	64.5	D3-4	-	0.0	0.0	45.8	45.2	67.9	0.0	0.0	67.9	67.9	70	N	-	-	64.9	Y	N	N
R5441	16	67.5	D3-4	-	0.0	0.0	46.1	45.2	67.7	0.0	0.0	67.8	67.8	70	N	-	-	64.8	Y	N	N
R5441	17	70.5	D3-4	-	0.0	0.0	46.4	45.2	67.5	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
R5441	18	73.5	D3-4	-	0.0	0.0	46.8	45.2	67.4	0.0	0.0	67.4	67.4	70	N	-	-	64.4	Y	N	N
R5441	19	76.5	D3-4	-	0.0	0.0	47.2	45.2	67.2	0.0	0.0	67.3	67.3	70	N	-	-	64.3	Y	N	N
R5441	20	79.5	D3-4	-	0.0	0.0	47.6	45.2	67.0	0.0	0.0	67.1	67.1	70	N	-	-	64.1	Y	N	N
R5441	21	82.5	D3-4	-	0.0	0.0	48.2	45.2	66.9	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
R5441	22	85.5	D3-4	-	0.0	0.0	48.8	45.2	66.7	0.0	0.0	66.8	66.8	70	N	-	-	63.8	Y	N	N
R5441	23	88.5	D3-4	-	0.0	0.0	49.6	45.4	66.6	0.0	0.0	66.7	66.7	70	N	-	-	63.7	Y	N	N
R5441	24	91.5	D3-4	-	0.0	0.0	50.7	45.6	66.4	0.0	0.0	66.6	66.6	70	N	-	-	63.6	Y	N	N
R5441	25	94.5	D3-4	-	0.0	0.0	52.1	46.0	66.3	0.0	0.0	66.5	66.5	70	N	-	-	63.5	Y	N	N
R5441	26	97.5	D3-4	-	0.0	0.0	54.0	46.7	66.2	0.0	0.0	66.5	66.5	70	N	-	-	63.5	Y	N	N
R5441	27	100.5	D3-4	-	0.0	0.0	56.1	47.5	66.0	0.0	0.0	66.5	66.5	70	N	-	-	63.5	Y	N	N
R5441	28	103.5	D3-4	-	0.0	0.0	57.8	48.4	65.9	0.0	0.0	66.6	66.6	70	N	-	-	63.6	Y	N	N
R5441	29	106.5	D3-4	-	0.0	0.0	59.1	48.8	65.8	0.0	0.0	66.7	66.7	70	N	-	-	63.7	Y	N	N
R5441	30	109.5	D3-4	-	0.0	0.0	59.8	49.0	65.7	0.0	0.0	66.7	66.7	70	N	-	-	63.7	Y	N	N
R5442	1	22.5	D3-4	-	17.9	0.0	43.9	4.0	57.3	0.0	0.0	57.5	57.5	70	N	-	-	39.5	Y	N	N
R5442	2	25.5	D3-4	-	17.9	0.0	44.3	4.0	60.0	0.0	0.0	60.1	60.1	70	N	-	-	42.1	Y	N	N
R5442	3	28.5	D3-4	-	17.9	0.0	44.8	4.0	62.8	0.0	0.0	62.9	62.9	70	N	-	-	44.9	Y	N	N
R5442	4	31.5	D3-4	-	17.9	0.0	45.4	4.0	65.1	0.0	0.0	65.2	65.2	70	N	-	-	47.2	Y	N	N
R5442	5	34.5	D3-4	-	17.9	0.0	46.1	4.0	66.4	0.0	0.0	66.4	66.4	70	N	-	-	48.4	Y	N	N
R5442	6	37.5	D3-4	-	17.9	0.0	46.7	4.0	66.9	0.0	0.0	66.9	66.9	70	N	-	-	48.9	Y	N	N
R5442	7	40.5	D3-4	-	17.9	0.0	47.4	4.0	67.1	0.0	0.0	67.1	67.1	70	N	-	-	49.1	Y	N	N
R5442	8	43.5	D3-4	-	17.9	0.0	47.9	4.0	67.0	0.0	0.0	67.1	67.1	70	N	-	-	49.1	Y	N	N
R5442	9	46.5	D3-4	-	17.9	0.0	48.3	4.0	66.9	0.0	0.0	67.0	67.0	70	N	-	-	49.0	Y	N	N
R5442	10	49.5	D3-4	-	17.9	0.0	48.7	4.0	66.8	0.0	0.0	66.9	66.9	70	N	-	-	48.9	Y	N	N
R5442	11	52.5	D3-4	-	17.9	0.0	48.9	3.9	66.7	0.0	0.0	66.7	66.7	70	N	-	-	48.7	Y	N	N
R5442	12	55.5	D3-4	-	17.8	0.0	49.1	3.9	66.5	0.0	0.0	66.6	66.6	70	N	-	-	48.7	Y	N	N
R5442	13	58.5	D3-4	-	17.8	0.0	49.2	3.9	66.4	0.0	0.0	66.5	66.5	70	N	-	-	48.6	Y	N	N
R5442	14	61.5	D3-4	-	17.8	0.0	49.3	3.9	66.2	0.0	0.0	66.3	66.3	70	N	-	-	48.4	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

				WITHOUT PROJECT	WITH PROJECT														
Assessment Point			Location	Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	New Roads[2]					New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
R5442	15	64.5	D3-4	-	17.8	0.0	49.5	3.9	66.1	0.0	0.0	66.2	66.2	70	N	-	-	48.3	Y	N	N
R5442	16	67.5	D3-4	-	17.8	0.0	49.6	3.9	66.0	0.0	0.0	66.1	66.1	70	N	-	-	48.2	Y	N	N
R5442	17	70.5	D3-4	-	17.8	0.0	49.6	3.9	65.9	0.0	0.0	66.0	66.0	70	N	-	-	48.1	Y	N	N
R5442	18	73.5	D3-4	-	17.7	0.0	49.8	3.9	65.7	0.0	0.0	65.8	65.8	70	N	-	-	48.0	Y	N	N
R5442	19	76.5	D3-4	-	17.7	0.0	49.8	3.9	65.6	0.0	0.0	65.7	65.7	70	N	-	-	47.9	Y	N	N
R5442	20	79.5	D3-4	-	17.7	0.0	49.9	3.9	65.5	0.0	0.0	65.6	65.6	70	N	-	-	47.8	Y	N	N
R5442	21	82.5	D3-4	-	17.7	0.0	50.1	3.9	65.4	0.0	0.0	65.5	65.5	70	N	-	-	47.7	Y	N	N
R5442	22	85.5	D3-4	-	17.7	0.0	50.2	3.9	65.2	0.0	0.0	65.4	65.4	70	N	-	-	47.6	Y	N	N
R5442	23	88.5	D3-4	-	17.6	0.0	50.3	3.9	65.1	0.0	0.0	65.2	65.2	70	N	-	-	47.5	Y	N	N
R5442	24	91.5	D3-4	-	17.6	0.0	50.5	3.9	65.0	0.0	0.0	65.2	65.2	70	N	-	-	47.5	Y	N	N
R5442	25	94.5	D3-4	-	17.6	0.0	50.8	4.2	64.9	0.0	0.0	65.1	65.1	70	N	-	-	47.4	Y	N	N
R5442	26	97.5	D3-4	-	18.5	0.0	51.3	4.5	64.8	0.0	0.0	65.0	65.0	70	N	-	-	46.4	Y	N	N
R5442	27	100.5	D3-4	-	19.4	0.0	52.2	4.7	64.7	0.0	0.0	64.9	64.9	70	N	-	-	45.5	Y	N	N
R5442	28	103.5	D3-4	-	20.6	0.0	53.5	4.8	64.6	0.0	0.0	64.9	64.9	70	N	-	-	44.3	Y	N	N
R5442	29	106.5	D3-4	-	21.9	0.0	54.8	4.9	64.5	0.0	0.0	64.9	64.9	70	N	-	-	43.0	Y	N	N
R5442	30	109.5	D3-4	-	23.4	0.0	55.5	4.9	64.4	0.0	0.0	64.9	64.9	70	N	-	-	41.5	Y	N	N
R5443	1	22.5	D3-4	-	0.0	0.0	49.0	17.2	61.7	0.0	0.0	61.9	61.9	70	N	-	-	58.9	Y	N	N
R5443	2	25.5	D3-4	-	0.0	0.0	49.2	17.1	64.1	0.0	0.0	64.3	64.3	70	N	-	-	61.3	Y	N	N
R5443	3	28.5	D3-4	-	0.0	0.0	49.3	17.1	65.0	0.0	0.0	65.1	65.1	70	N	-	-	62.1	Y	N	N
R5443	4	31.5	D3-4	-	0.0	0.0	49.5	17.1	65.2	0.0	0.0	65.3	65.3	70	N	-	-	62.3	Y	N	N
R5443	5	34.5	D3-4	-	0.0	0.0	49.5	17.1	65.5	0.0	0.0	65.6	65.6	70	N	-	-	62.6	Y	N	N
R5443	6	37.5	D3-4	-	0.0	0.0	49.5	17.1	65.9	0.0	0.0	66.0	66.0	70	N	-	-	63.0	Y	N	N
R5443	7	40.5	D3-4	-	0.0	0.0	49.6	17.0	66.2	0.0	0.0	66.3	66.3	70	N	-	-	63.3	Y	N	N
R5443	8	43.5	D3-4	-	0.0	0.0	49.7	17.2	66.5	0.0	0.0	66.6	66.6	70	N	-	-	63.6	Y	N	N
R5443	9	46.5	D3-4	-	0.0	0.0	49.8	17.2	66.6	0.0	0.0	66.7	66.7	70	N	-	-	63.7	Y	N	N
R5443	10	49.5	D3-4	-	0.0	0.0	49.9	17.1	66.6	0.0	0.0	66.7	66.7	70	N	-	-	63.7	Y	N	N
R5443	11	52.5	D3-4	-	0.0	0.0	50.1	17.0	66.6	0.0	0.0	66.7	66.7	70	N	-	-	63.7	Y	N	N
R5443	12	55.5	D3-4	-	0.0	0.0	50.2	17.2	66.5	0.0	0.0	66.6	66.6	70	N	-	-	63.6	Y	N	N
R5443	13	58.5	D3-4	-	0.0	0.0	50.3	17.4	66.4	0.0	0.0	66.5	66.5	70	N	-	-	63.5	Y	N	N
R5443	14	61.5	D3-4	-	0.0	0.0	50.4	17.4	66.3	0.0	0.0	66.4	66.4	70	N	-	-	63.4	Y	N	N
R5443	15	64.5	D3-4	-	0.0	0.0	50.5	17.4	66.2	0.0	0.0	66.3	66.3	70	N	-	-	63.3	Y	N	N
R5443	16	67.5	D3-4	-	0.0	0.0	50.6	17.3	66.1	0.0	0.0	66.2	66.2	70	N	-	-	63.2	Y	N	N
R5443	17	70.5	D3-4	-	0.0	0.0	50.7	17.3	65.9	0.0	0.0	66.1	66.1	70	N	-	-	63.1	Y	N	N
R5443	18	73.5	D3-4	-	0.0	0.0	50.8	17.3	65.8	0.0	0.0	65.9	65.9	70	N	-	-	62.9	Y	N	N
R5443	19	76.5	D3-4	-	0.0	0.0	50.9	17.3	65.7	0.0	0.0	65.8	65.8	70	N	-	-	62.8	Y	N	N
R5443	20	79.5	D3-4	-	0.0	0.0	50.9	17.3	65.6	0.0	0.0	65.7	65.7	70	N	-	-	62.7	Y	N	N
R5443	21	82.5	D3-4	-	0.0	0.0	51.0	17.3	65.5	0.0	0.0	65.6	65.6	70	N	-	-	62.6	Y	N	N
R5443	22	85.5	D3-4	-	0.0	0.0	51.0	17.2	65.3	0.0	0.0	65.5	65.5	70	N	-	-	62.5	Y	N	N
R5443	23	88.5	D3-4	-	0.0	0.0	51.1	17.2	65.2	0.0	0.0	65.4	65.4	70	N	-	-	62.4	Y	N	N
R5443	24	91.5	D3-4	-	0.0	0.0	51.1	17.2	65.1	0.0	0.0	65.3	65.3	70	N	-	-	62.3	Y	N	N
R5443	25	94.5	D3-4	-	0.0	0.0	51.1	17.4	65.0	0.0	0.0	65.2	65.2	70	N	-	-	62.2	Y	N	N
R5443	26	97.5	D3-4	-	0.0	0.0	51.2	17.7	64.9	0.0	0.0	65.1	65.1	70	N	-	-	62.1	Y	N	N
R5443	27	100.5	D3-4	-	0.0	0.0	51.2	18.6	64.8	0.0	0.0	65.0	65.0	70	N	-	-	62.0	Y	N	N
R5443	28	103.5	D3-4	-	0.0	0.0	51.3	19.7	64.7	0.0	0.0	64.8	64.8	70	N	-	-	61.8	Y	N	N
R5443	29	106.5	D3-4	-	0.0	0.0	51.3	21.0	64.6	0.0	0.0	64.8	64.8	70	N	-	-	61.8	Y	N	N
R5443	30	109.5	D3-4	-	0.0	0.0	51.4	22.3	64.5	0.0	0.0	64.7	64.7	70	N	-	-	61.7	Y	N	N
R5444	1	22.5	D3-4	-	53.1	0.0	52.0	5.6	68.9	0.0	0.0	69.0	69.1	70	N	-	-	16.0	Y	N	N
R5444	2	25.5	D3-4	-	53.2	0.0	52.1	5.6	68.9	0.0	0.0	69.0	69.1	70	N	-	-	15.9	Y	N	N
R5444	3	28.5	D3-4	-	53.3	0.0	52.4	5.6	68.9	0.0	0.0	69.0	69.1	70	N	-	-	15.8	Y	N	N
R5444	4	31.5	D3-4	-	53.4	0.0	52.8	5.6	68.8	0.0	0.0	68.9	69.0	70	N	-	-	15.6	Y	N	N
R5444	5	34.5	D3-4	-	53.5	0.0	53.4	5.6	68.7	0.0	0.0	68.8	68.9	70	N	-	-	15.4	Y	N	N
R5444	6	37.5	D3-4	-	53.5	0.0	54.0	5.6	68.6	0.0	0.0	68.7	68.8	70	N	-	-	15.3	Y	N	N
R5444	7	40.5	D3-4	-	53.6	0.0	54.5	5.6	68.4	0.0	0.0	68.6	68.7	70	N	-	-	15.1	Y	N	N
R5444	8	43.5	D3-4	-	53.6	0.0	54.8	5.6	68.3	0.0	0.0	68.5	68.6	70	N	-	-	15.0	Y	N	N
R5444	9	46.5	D3-4	-	53.7	0.0	55.1	5.9	68.2	0.0	0.0	68.4	68.5	70	N	-	-	14.8	Y	N	N
R5444	10	49.5	D3-4	-	53.7	0.0	55.3	5.9	68.1	0.0	0.0	68.3	68.4	70	N	-	-	14.7	Y	N	N
R5444	11	52.5	D3-4	-	53.7	0.0	55.4	5.9	67.9	0.0	0.0	68.2	68.3	70	N	-	-	14.6	Y	N	N
R5444	12	55.5	D3-4	-	53.7	0.0	55.5	5.9	67.8	0.0	0.0	68.0	68.2	70	N	-	-	14.5	Y	N	N
R5444	13	58.5	D3-4	-	53.7	0.0	55.5	5.9	67.7	0.0	0.0	67.9	68.1	70	N	-	-	14.4	Y	N	N
R5444	14	61.5	D3-4	-	53.7	0.0	55.6	5.9	67.5	0.0	0.0	67.8	68.0	70	N	-	-	14.3	Y	N	N
R5444	15	64.5	D3-4	-	53.7	0.0	55.6	5.9	67.4	0.0	0.0	67.7	67.9	70	N	-	-	14.2	Y	N	N
R5444	16	67.5	D3-4	-	53.7	0.0	55.7	5.9	67.3	0.0	0.0	67.6	67.7	70	N	-	-	14.0	Y	N	N
R5444	17	70.5	D3-4	-	53.7	0.0	55.7	5.9	67.1	0.0	0.0	67.4	67.6	70	N	-	-	13.9	Y	N	N
R5444	18	73.5	D3-4	-	53.7	0.0	55.7	5.8	67.0	0.0	0.0	67.3	67.5	70	N	-	-	13.8	Y	N	N
R5444	19	76.5	D3-4	-	53.6	0.0	55.7	5.8	66.9	0.0	0.0	67.2	67.4	70	N	-	-	13.8	Y	N	N
R5444	20	79.5	D3-4	-	53.6	0.0	55.8	5.8	66.8	0.0	0.0	67.1	67.3	70	N	-	-	13.7	Y	N	N
R5444	21	82.5	D3-4	-	53.6	0.0	55.8	5.8	66.7	0.0	0.0	67.0	67.2	70	N	-	-	13.6	Y	N	N
R5444	22	85.5	D3-4	-	53.6	0.0	55.8	5.8	66.5	0.0	0.0	66.9	67.1	70	N	-	-	13.5	Y	N	N
R5444	23	88.5	D3-4	-	53.6	0.0	55.8	5.8	66.4	0.0	0.0	66.7	67.0	70	N	-	-	13.4	Y	N	N
R5444	24	91.5	D3-4	-	53.6	0.0	55.8	5.8	66.3	0.0	0.0	66.6	66.9	70	N	-	-	13.3	Y	N	N
R5444	25	94.5	D3-4	-	53.6	0.0	55.8	5.8	66.2	0.0	0.0	66.6	66.8	70	N	-	-	13.2	Y	N	N
R5444	26	97.5	D3-4	-	53.6	0.0	55.8	5.7	66.1	0.0	0.0	66.5	66.7	70	N	-	-	13.1	Y	N	N
R5444	27	100.5	D3-4	-	53.5	0.0	55.8	5.7	65.9	0.0	0.0	66.3	66.6	70	N	-	-	13.1	Y	N	N
R5444	28	103.5	D3-4	-	53.5	0.0	55.8	5.8	65.8	0.0	0.0	66.3	66.5	70	N	-	-	13.0	Y	N	N
R5444	29	106.5	D3-4	-	53.5	0.0	55.9	5.9	65.7	0.0	0.0	66.2	66.4	70	N	-	-	12.9	Y	N	N
R5444	30	109.5	D3-4	-	53.5	0.0	55.8	5.9	65.6	0.0	0.0	66.1	66.3	70	N	-	-	12.8	Y	N	N
R5481	1	23.0	D3-7	-	59.1	0.0	48.8	7.6	67.5	0.0	0.0	67.6	68.2	70	N	-	-	9.1	Y	N	N
R5481	2	26.0	D3-7	-	59.2	0.0	48.8	7.5	67.4	0.0	0.0	67.5	68.1	70	N	-	-	8.9	Y	N	N
R5481	3	29.0	D3-7	-	59.3	0.0	49.0	7.5	67.4	0.0	0.0	67.5	68.1	70	N	-	-	8.8	Y	N	N
R5481	4	32.0	D3-7	-	59.3	0.0	49.2	7.5	67.3	0.0	0.0	67.4	68.0	70	N	-	-	8.7	Y	N	N
R5481	5	35.0	D3-7	-	59.3	0.0	49.4	7.5	67.2	0.0	0.0	67.3	68.0	70	N	-	-	8.7	Y	N	N
R5481	6	38.0	D3-7	-	59.3	0.0	49.7	7.5	67.2	0.0	0.0	67.3	67.9	70	N	-	-	8.6	Y	N	N
R5481	7	41.0	D3-7	-	59.3	0.0	49.9	7.5	67.1	0.0	0.0	67.2	67.8	70	N	-	-	8.5	Y	N	N
R5481	8	44.0	D3-7	-	59.2	0.0	50.1	7.5	67.0	0.0	0.0	67.1	67.8	70	N	-	-	8.6	Y	N	N
R5481	9	47.0	D3-7	-	59.2	0.0	50.4	7.5	66.9	0.0	0.0	67.0	67.7	70	N	-	-	8.5	Y	N	N
R5481	10	50.0	D3-7	-	59.2	0.0	50.6	7.5	66.8	0.0	0.0	66.9	67.6	70	N	-	-	8.4	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
R5481	11	53.0	D3-7	-	59.1	0.0	50.8	7.5	66.7	0.0	0.0	66.8	67.5	70	N	-	-	8.4	Y	N	N
R5481	12	56.0	D3-7	-	59.1	0.0	51.0	7.4	66.6	0.0	0.0	66.7	67.4	70	N	-	-	8.3	Y	N	N
R5481	13	59.0	D3-7	-	59.1	0.0	51.2	7.4	66.5	0.0	0.0	66.6	67.3	70	N	-	-	8.2	Y	N	N
R5481	14	62.0	D3-7	-	59.0	0.0	51.3	7.4	66.4	0.0	0.0	66.5	67.2	70	N	-	-	8.2	Y	N	N
R5481	15	65.0	D3-7	-	59.0	0.0	51.5	7.4	66.3	0.0	0.0	66.4	67.2	70	N	-	-	8.2	Y	N	N
R5481	16	68.0	D3-7	-	58.9	0.0	51.5	7.4	66.2	0.0	0.0	66.3	67.1	70	N	-	-	8.2	Y	N	N
R5481	17	71.0	D3-7	-	58.9	0.0	51.6	7.4	66.1	0.0	0.0	66.2	67.0	70	N	-	-	8.1	Y	N	N
R5481	18	74.0	D3-7	-	58.9	0.0	51.7	7.3	66.0	0.0	0.0	66.1	66.9	70	N	-	-	8.0	Y	N	N
R5481	19	77.0	D3-7	-	58.8	0.0	51.8	7.3	65.9	0.0	0.0	66.0	66.8	70	N	-	-	8.0	Y	N	N
R5481	20	80.0	D3-7	-	58.8	0.0	51.9	7.3	65.8	0.0	0.0	65.9	66.7	70	N	-	-	7.9	Y	N	N
R5481	21	83.0	D3-7	-	58.7	0.0	51.9	7.3	65.7	0.0	0.0	65.8	66.6	70	N	-	-	7.9	Y	N	N
R5481	22	86.0	D3-7	-	58.7	0.0	52.0	7.2	65.6	0.0	0.0	65.8	66.5	70	N	-	-	7.8	Y	N	N
R5481	23	89.0	D3-7	-	58.6	0.0	52.1	7.2	65.5	0.0	0.0	65.7	66.5	70	N	-	-	7.9	Y	N	N
R5481	24	92.0	D3-7	-	58.6	0.0	52.1	7.2	65.4	0.0	0.0	65.6	66.4	70	N	-	-	7.8	Y	N	N
R5481	25	95.0	D3-7	-	58.5	0.0	52.2	7.2	65.3	0.0	0.0	65.5	66.3	70	N	-	-	7.8	Y	N	N
R5481	26	98.0	D3-7	-	58.5	0.0	52.3	7.0	65.2	0.0	0.0	65.4	66.2	70	N	-	-	7.7	Y	N	N
R5481	27	101.0	D3-7	-	58.5	0.0	52.4	6.9	65.1	0.0	0.0	65.3	66.1	70	N	-	-	7.6	Y	N	N
R5481	28	104.0	D3-7	-	58.4	0.0	52.4	7.1	65.0	0.0	0.0	65.2	66.1	70	N	-	-	7.7	Y	N	N
R5481	29	107.0	D3-7	-	58.4	0.0	52.5	7.2	64.9	0.0	0.0	65.1	66.0	70	N	-	-	7.6	Y	N	N
R5481	30	110.0	D3-7	-	58.4	0.0	52.6	7.2	64.8	0.0	0.0	65.1	65.9	70	N	-	-	7.5	Y	N	N
R5541	1	10.5	D3-12	-	60.9	0.0	42.2	9.1	65.7	0.0	0.0	65.7	67.0	65	Y	-	-	6.1	Y	Y	Y
R5541	2	13.2	D3-12	-	61.4	0.0	42.2	9.1	65.7	0.0	0.0	65.7	67.1	65	Y	-	-	5.7	Y	Y	Y
R5541	3	15.9	D3-12	-	61.9	0.0	42.2	9.1	65.7	0.0	0.0	65.7	67.2	65	Y	-	-	5.3	Y	Y	Y
R5541	4	18.6	D3-12	-	62.2	0.0	42.2	9.1	65.7	0.0	0.0	65.7	67.3	65	Y	-	-	5.1	Y	Y	Y
R5541	5	21.3	D3-12	-	62.4	0.0	42.2	9.1	65.6	0.0	0.0	65.7	67.4	65	Y	-	-	5.0	Y	Y	Y
R5541	6	24.0	D3-12	-	62.6	0.0	42.2	9.1	65.6	0.0	0.0	65.6	67.4	65	Y	-	-	4.8	Y	Y	Y
R5541	7	26.7	D3-12	-	62.7	0.0	42.2	9.1	65.6	0.0	0.0	65.6	67.4	65	Y	-	-	4.7	Y	Y	Y
R5541	8	29.4	D3-12	-	62.7	0.0	42.2	9.0	65.5	0.0	0.0	65.6	67.4	65	Y	-	-	4.7	Y	Y	Y
R5836	1	12.8	Pui Ling School	76.9	74.9	0.0	10.6	40.4	0.0	0.0	0.0	40.4	74.9	65	Y	-2.0	N	0.0	N	N	N
R5836	2	16.8	Pui Ling School	76.9	74.8	0.0	10.6	40.4	0.0	0.0	0.0	40.4	74.8	65	Y	-2.1	N	0.0	N	N	N
R5836	3	20.8	Pui Ling School	76.8	74.8	0.0	10.5	40.4	0.0	0.0	0.0	40.4	74.8	65	Y	-2.0	N	0.0	N	N	N
R6321	1	31.4	Regentville	77	75.1	0.0	55.4	53.8	0.0	0.0	0.0	57.7	75.2	70	Y	-1.8	N	0.1	N	N	N
R6321	2	34.4	Regentville	76.9	75.0	0.0	55.7	53.6	0.0	0.0	0.0	57.8	75.0	70	Y	-1.9	N	0.0	N	N	N
R6321	3	37.4	Regentville	76.7	74.8	0.0	55.9	53.5	0.0	0.0	0.0	57.8	74.9	70	Y	-1.8	N	0.1	N	N	N
R6321	4	40.4	Regentville	76.6	74.7	0.0	56.2	53.3	0.0	0.0	0.0	58.0	74.8	70	Y	-1.8	N	0.1	N	N	N
R6321	5	43.4	Regentville	76.4	74.5	0.0	56.5	53.1	0.0	0.0	0.0	58.1	74.6	70	Y	-1.8	N	0.1	N	N	N
R6321	6	46.4	Regentville	76.2	74.3	0.0	56.8	52.8	0.0	0.0	0.0	58.2	74.4	70	Y	-1.8	N	0.1	N	N	N
R6321	7	49.4	Regentville	76	74.1	0.0	57.1	52.6	0.0	0.0	0.0	58.4	74.2	70	Y	-1.8	N	0.1	N	N	N
R6321	8	52.4	Regentville	75.8	73.9	0.0	57.4	52.4	0.0	0.0	0.0	58.6	74.0	70	Y	-1.8	N	0.1	N	N	N
R6321	9	55.4	Regentville	75.6	73.7	0.0	57.6	52.2	0.0	0.0	0.0	58.7	73.9	70	Y	-1.7	N	0.2	N	N	N
R6321	10	58.4	Regentville	75.5	73.6	0.0	57.8	52.1	0.0	0.0	0.0	58.8	73.7	70	Y	-1.8	N	0.1	N	N	N
R6321	11	61.4	Regentville	75.3	73.4	0.0	58.0	51.9	0.0	0.0	0.0	59.0	73.5	70	Y	-1.8	N	0.1	N	N	N
R6321	12	64.4	Regentville	75.1	73.2	0.0	58.2	51.7	0.0	0.0	0.0	59.1	73.4	70	Y	-1.7	N	0.2	N	N	N
R6321	13	67.4	Regentville	75	73.1	0.0	58.4	51.5	0.0	0.0	0.0	59.2	73.2	70	Y	-1.8	N	0.1	N	N	N
R6321	14	70.4	Regentville	74.8	72.9	0.0	58.5	51.3	0.0	0.0	0.0	59.3	73.1	70	Y	-1.7	N	0.2	N	N	N
R6321	15	73.4	Regentville	74.6	72.7	0.0	58.7	51.2	0.0	0.0	0.0	59.4	72.9	70	Y	-1.7	N	0.2	N	N	N
R6321	16	76.4	Regentville	74.5	72.6	0.0	58.8	51.0	0.0	0.0	0.0	59.5	72.8	70	Y	-1.7	N	0.2	N	N	N
R6321	17	79.4	Regentville	74.4	72.4	0.0	59.0	50.9	0.0	0.0	0.0	59.6	72.7	70	Y	-1.7	N	0.3	N	N	N
R6321	18	82.4	Regentville	74.2	72.3	0.0	59.1	50.8	0.0	0.0	0.0	59.7	72.5	70	Y	-1.7	N	0.2	N	N	N
R6321	19	85.4	Regentville	74.1	72.1	0.0	59.2	50.6	0.0	0.0	0.0	59.7	72.4	70	Y	-1.7	N	0.3	N	N	N
R6321	20	88.4	Regentville	73.9	72.0	0.0	59.3	50.5	0.0	0.0	0.0	59.8	72.2	70	Y	-1.7	N	0.2	N	N	N
R6321	21	91.4	Regentville	73.8	71.9	0.0	59.4	50.3	0.0	0.0	0.0	59.9	72.2	70	Y	-1.6	N	0.3	N	N	N
R6321	22	94.4	Regentville	73.6	71.7	0.0	59.4	50.2	0.0	0.0	0.0	59.9	72.0	70	Y	-1.6	N	0.3	N	N	N
R6321	23	97.4	Regentville	73.5	71.6	0.0	59.5	50.1	0.0	0.0	0.0	60.0	71.9	70	Y	-1.6	N	0.3	N	N	N
R6321	24	100.4	Regentville	73.4	71.5	0.0	59.6	50.0	0.0	0.0	0.0	60.0	71.8	70	Y	-1.6	N	0.3	N	N	N
R6321	25	103.4	Regentville	73.3	71.4	0.0	59.7	49.9	0.0	0.0	0.0	60.1	71.7	70	Y	-1.6	N	0.3	N	N	N
R6321	26	106.4	Regentville	73.2	71.3	0.0	59.8	49.7	0.0	0.0	0.0	60.2	71.6	70	Y	-1.6	N	0.3	N	N	N
R6321	27	109.4	Regentville	73	71.1	0.0	59.9	49.6	0.0	0.0	0.0	60.2	71.5	70	Y	-1.5	N	0.4	N	N	N
R6321	28	112.4	Regentville	72.9	71.0	0.0	60.0	49.5	0.0	0.0	0.0	60.3	71.4	70	Y	-1.5	N	0.4	N	N	N
R6321	29	115.4	Regentville	72.8	70.9	0.0	60.1	49.4	0.0	0.0	0.0	60.4	71.2	70	Y	-1.6	N	0.3	N	N	N
R6321	30	118.4	Regentville	72.7	70.8	0.0	60.2	49.4	0.0	0.0	0.0	60.6	71.2	70	Y	-1.5	N	0.4	N	N	N
R6322	1	31.4	Regentville	77.4	75.3	0.0	56.3	53.7	0.0	0.0	0.0	58.2	75.4	70	Y	-2.0	N	0.1	N	N	N
R6322	2	34.4	Regentville	77.2	75.1	0.0	56.7	53.5	0.0	0.0	0.0	58.4	75.2	70	Y	-2.0	N	0.1	N	N	N
R6322	3	37.4	Regentville	77	74.9	0.0	57.0	53.2	0.0	0.0	0.0	58.5	75.0	70	Y	-2.0	N	0.1	N	N	N
R6322	4	40.4	Regentville	76.9	74.8	0.0	57.3	52.9	0.0	0.0	0.0	58.6	74.9	70	Y	-2.0	N	0.1	N	N	N
R6322	5	43.4	Regentville	76.7	74.6	0.0	57.5	52.7	0.0	0.0	0.0	58.7	74.7	70	Y	-2.0	N	0.1	N	N	N
R6322	6	46.4	Regentville	76.5	74.4	0.0	57.8	52.4	0.0	0.0	0.0	58.9	74.5	70	Y	-2.0	N	0.1	N	N	N
R6322	7	49.4	Regentville	76.3	74.2	0.0	58.1	52.1	0.0	0.0	0.0	59.1	74.4	70	Y	-1.9	N	0.2	N	N	N
R6322	8	52.4	Regentville	76.1	74.0	0.0	58.4	52.0	0.0	0.0	0.0	59.3	74.2	70	Y	-1.9	N	0.2	N	N	N
R6322	9	55.4	Regentville	76	73.9	0.0	58.7	51.7	0.0	0.0	0.0	59.5	74.0	70	Y	-2.0	N	0.1	N	N	N
R6322	10	58.4	Regentville	75.8	73.7	0.0	58.8	51.6	0.0	0.0	0.0	59.6	73.9	70	Y	-1.9	N	0.2	N	N	N
R6322	11	61.4	Regentville	75.6	73.5	0.0	59.0	51.3	0.0	0.0	0.0	59.7	73.7	70	Y	-1.9	N	0.2	N	N	N
R6322	12	64.4	Regentville	75.5	73.3	0.0	59.1	51.2	0.0	0.0	0.0	59.8	73.5	70	Y	-2.0	N	0.2	N	N	N
R6322	13	67.4	Regentville	75.3	73.2	0.0	59.3	51.0	0.0	0.0	0.0	59.9	73.4	70	Y	-1.9	N	0.2	N	N	N
R6322	14	70.4	Regentville	75.1	73.0	0.0	59.4	50.9	0.0	0.0	0.0	60.0	73.3	70	Y	-1.8	N	0.3	N	N	N
R6322	15	73.4	Regentville	74.9	72.9	0.0	59.5	50.7	0.0	0.0	0.0	60.0	73.1	70	Y	-1.8	N	0.2	N	N	N
R6322	16	76.4	Regentville	74.8	72.7	0.0	59.6	50.6	0.0	0.0	0.0	60.1	72.9	70	Y	-1.9	N	0.2	N	N	N
R6322	17	79.4	Regentville	74.6	72.6	0.0	59.7	50.4	0.0	0.0	0.0	60.2	72.8	70	Y	-1.8	N	0.2	N	N	N
R6322	18	82.4	Regentville	74.5	72.4	0.0	59.8	50.3	0.0	0.0	0.0	60.2	72.7	70	Y	-1.8	N	0.3	N	N	N
R6322	19	85.4	Regentville	74.3	72.3	0.0	59.8	50.2	0.0	0.0	0.0	60.3	72.5	70	Y	-1.8	N	0.2	N	N	N
R6322	20	88.4	Regentville	74.2	72.1	0.0	59.9	50.0	0.0	0.0	0.0	60.3	72.4	70	Y	-1.8	N	0.3	N	N	N
R6322	21	91.4	Regentville	74.1	72.0	0.0	59.9	49.9	0.0	0.0	0.0	60.4	72.3	70	Y	-1.8	N	0.3	N	N	N
R6322	22	94.4	Regentville	73.9	71.9	0.0	60.0	49.8	0.0	0.0	0.0	60.4	72.2	70	Y	-1.7	N	0.3	N	N	N
R6322	23	97.4	Regentville	73.8	71.7	0.0	60.0	49.7	0.0	0.0	0.0	60.4	72.0	70	Y	-1.8	N	0.3	N	N	N
R6322	24	100.4	Regentville	73.7	71.6	0.0	60.1	49.5	0.0	0.0	0.0	60.4	72.0	70	Y	-1.7	N	0.4	N	N	N
R6322	25	103.4	Regentville	73.6	71.5	0.0	60.1	49.5	0.0	0.0	0.0	60.5	71.8	70	Y	-1.8	N	0.3	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Unmitigated)

				WITHOUT PROJECT	WITH PROJECT														
Assessment Point			Location	Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	New Roads[2]					New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
R6322	26	106.4	Regentville	73.5	71.4	0.0	60.2	49.3	0.0	0.0	0.0	60.5	71.7	70	Y	-1.8	N	0.3	N	N	N
R6322	27	109.4	Regentville	73.3	71.3	0.0	60.2	49.2	0.0	0.0	0.0	60.5	71.6	70	Y	-1.7	N	0.3	N	N	N
R6322	28	112.4	Regentville	73.2	71.1	0.0	60.2	49.1	0.0	0.0	0.0	60.5	71.5	70	Y	-1.7	N	0.4	N	N	N
R6322	29	115.4	Regentville	73.1	71.0	0.0	60.2	49.1	0.0	0.0	0.0	60.6	71.4	70	Y	-1.7	N	0.4	N	N	N
R6322	30	118.4	Regentville	73	70.9	0.0	60.3	48.9	0.0	0.0	0.0	60.6	71.3	70	Y	-1.7	N	0.4	N	N	N

Notes:

[1] Other Roads refer to planned road projects carried out by others such as Development of Lok Ma Chau Loop, Liantang / Heung Yuen Wai Boundary Control Point and Associated Works, Widening of Tolo Highway/Fanling Highway etc.

[2] PD - Primary Distributor Road; DD - District Distributor Road; LD - Local Distributor Road; EX - Expressway; TR - Trunk Roads.

[3] New Roads refer to the proposed road networks including planned internal roads within FLN NDA and modification of connecting roads to NDA.

[4] For landuse planned under NDA project, mitigation measures are required to mitigate the noise level to within noise criteria.

[5] For existing and planned NSRs outside and within the non-development area of NDA, Direct Mitigation Measures will be required when "With Project Overall Noise Level exceeds Noise Criteria" AND, either "With Project - Without Project Overall Noise Level ≥ 1.0 dB(A)" or "New Roads exceeds Noise Criteria" or "New Roads Contribution ≥ 1.0 dB(A)".

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN Social Welfares & Kindergartens (Unmitigated)

				WITHOUT PROJECT	WITH PROJECT														
Assessment Point			Location	Overall Noise Level in 2044 dB(A) [A]	Existing Road at 2044 dB(A)	Other Roads at 2044 dB(A)[1]	New Roads[2]						Overall Noise Level at 2044 dB(A) [B]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR	New Roads at 2044 dB(A) [A] [3]				C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [C]	New Road Contribution ≥ 1.0 dB(A) C ≥ 1.0 dB(A)	New Road > Criteria A > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
N7492	1	9.5	D2-9 Social Welfares	-	24.6	0.0	65.5	0.0	66.1	0.0	0.0	68.9	68.9	70.0	N	-	-	44.3	Y	N	N
N7492	2	12.5	D2-9 Social Welfares	-	25.1	0.0	65.9	0.0	66.0	0.0	0.0	69.0	69.0	70.0	N	-	-	43.9	Y	N	N
N7492	3	15.5	D2-9 Social Welfares	-	25.8	0.0	66.2	0.0	65.9	0.0	0.0	69.1	69.1	70.0	N	-	-	43.3	Y	N	N
N7492	4	18.5	D2-9 Social Welfares	-	26.8	0.0	66.7	0.0	65.8	0.0	0.0	69.2	69.2	70.0	N	-	-	42.4	Y	N	N
N7492	5	21.5	D2-9 Social Welfares	-	27.9	0.0	67.1	0.0	65.6	0.0	0.0	69.4	69.4	70.0	N	-	-	41.5	Y	N	N
N7492	6	24.5	D2-9 Social Welfares	-	29.3	0.0	67.4	0.0	65.3	0.0	0.0	69.5	69.5	70.0	N	-	-	40.2	Y	N	N
N7492	7	27.5	D2-9 Social Welfares	-	31.0	0.0	67.6	0.0	65.0	0.0	0.0	69.5	69.5	70.0	N	-	-	38.5	Y	N	N
N7493	1	9.5	D2-9 Social Welfares	-	0.0	0.0	61.9	0.0	41.8	0.0	0.0	62.0	62.0	70.0	N	-	-	59.0	Y	N	N
N7493	2	12.5	D2-9 Social Welfares	-	0.0	0.0	63.4	0.0	41.8	0.0	0.0	63.5	63.5	70.0	N	-	-	60.5	Y	N	N
N7493	3	15.5	D2-9 Social Welfares	-	0.0	0.0	65.4	0.0	41.8	0.0	0.0	65.4	65.4	70.0	N	-	-	62.4	Y	N	N
N7493	4	18.5	D2-9 Social Welfares	-	0.0	0.0	67.7	0.0	41.8	0.0	0.0	67.7	67.7	70.0	N	-	-	64.7	Y	N	N
N7493	5	21.5	D2-9 Social Welfares	-	0.0	0.0	69.4	0.0	41.8	0.0	0.0	69.4	69.4	70.0	N	-	-	66.4	Y	N	N
N7493	6	24.5	D2-9 Social Welfares	-	0.0	0.0	70.6	0.0	41.8	0.0	0.0	70.6	70.6	70.0	Y	-	-	67.6	Y	Y	Y
N7493	7	27.5	D2-9 Social Welfares	-	0.0	0.0	71.1	0.0	41.8	0.0	0.0	71.1	71.1	70.0	Y	-	-	68.1	Y	Y	Y
N7494	1	9.5	D2-9 Social Welfares	-	0.0	0.0	65.1	0.0	40.4	0.0	0.0	65.1	65.1	70.0	N	-	-	62.1	Y	N	N
N7494	2	12.5	D2-9 Social Welfares	-	0.0	0.0	66.2	0.0	40.4	0.0	0.0	66.2	66.2	70.0	N	-	-	63.2	Y	N	N
N7494	3	15.5	D2-9 Social Welfares	-	0.0	0.0	68.1	0.0	40.4	0.0	0.0	68.1	68.1	70.0	N	-	-	65.1	Y	N	N
N7494	4	18.5	D2-9 Social Welfares	-	0.0	0.0	69.8	0.0	40.4	0.0	0.0	69.8	69.8	70.0	N	-	-	66.8	Y	N	N
N7494	5	21.5	D2-9 Social Welfares	-	0.0	0.0	71.2	0.0	40.4	0.0	0.0	71.2	71.2	70.0	Y	-	-	68.2	Y	Y	Y
N7494	6	24.5	D2-9 Social Welfares	-	0.0	0.0	72.0	0.0	40.4	0.0	0.0	72.0	72.0	70.0	Y	-	-	69.0	Y	Y	Y
N7494	7	27.5	D2-9 Social Welfares	-	0.0	0.0	72.4	0.0	40.4	0.0	0.0	72.4	72.4	70.0	Y	-	-	69.4	Y	Y	Y
N7495	1	9.5	D2-9 Social Welfares	-	29.3	0.0	67.1	0.0	36.7	0.0	0.0	67.1	67.1	70.0	N	-	-	37.8	Y	N	N
N7495	2	12.5	D2-9 Social Welfares	-	29.3	0.0	67.9	0.0	36.7	0.0	0.0	67.9	67.9	70.0	N	-	-	38.6	Y	N	N
N7495	3	15.5	D2-9 Social Welfares	-	29.3	0.0	69.2	0.0	36.7	0.0	0.0	69.2	69.2	70.0	N	-	-	39.9	Y	N	N
N7495	4	18.5	D2-9 Social Welfares	-	29.3	0.0	70.5	0.0	36.7	0.0	0.0	70.5	70.5	70.0	Y	-	-	41.2	Y	Y	Y
N7495	5	21.5	D2-9 Social Welfares	-	29.3	0.0	71.4	0.0	36.7	0.0	0.0	71.4	71.4	70.0	Y	-	-	42.1	Y	Y	Y
N7495	6	24.5	D2-9 Social Welfares	-	29.3	0.0	71.9	0.0	36.7	0.0	0.0	71.9	71.9	70.0	Y	-	-	42.6	Y	Y	Y
N7495	7	27.5	D2-9 Social Welfares	-	29.3	0.0	72.1	0.0	36.7	0.0	0.0	72.1	72.1	70.0	Y	-	-	42.8	Y	Y	Y
R7201	1	9.0	C2-6 Social Welfares	-	54.8	0.0	0.0	55.9	65.0	0.0	0.0	65.5	65.8	70.0	N	-	-	11.0	Y	N	N
R7201	2	13.0	C2-6 Social Welfares	-	54.8	0.0	0.0	55.9	64.9	0.0	0.0	65.4	65.8	70.0	N	-	-	11.0	Y	N	N
R7201	3	17.0	C2-6 Social Welfares	-	54.8	0.0	0.0	55.9	64.9	0.0	0.0	65.4	65.8	70.0	N	-	-	11.0	Y	N	N
R7201	4	21.0	C2-6 Social Welfares	-	54.9	0.0	0.0	55.9	64.8	0.0	0.0	65.3	65.7	70.0	N	-	-	10.8	Y	N	N
R7201	5	25.0	C2-6 Social Welfares	-	54.9	0.0	0.0	56.0	64.6	0.0	0.0	65.2	65.6	70.0	N	-	-	10.7	Y	N	N
R7202	1	9.0	C2-6 Social Welfares	-	0.0	0.0	55.9	65.7	57.4	0.0	0.0	66.7	66.7	70.0	N	-	-	63.7	Y	N	N
R7202	2	13.0	C2-6 Social Welfares	-	0.0	0.0	56.6	65.7	57.5	0.0	0.0	66.7	66.7	70.0	N	-	-	63.7	Y	N	N
R7202	3	17.0	C2-6 Social Welfares	-	0.0	0.0	57.2	65.7	57.6	0.0	0.0	66.8	66.8	70.0	N	-	-	63.8	Y	N	N
R7202	4	21.0	C2-6 Social Welfares	-	0.0	0.0	57.6	65.7	57.6	0.0	0.0	66.8	66.8	70.0	N	-	-	63.8	Y	N	N
R7202	5	25.0	C2-6 Social Welfares	-	0.0	0.0	57.9	65.6	57.6	0.0	0.0	66.9	66.9	70.0	N	-	-	63.9	Y	N	N
R7203	1	9.0	C2-6 Social Welfares	-	58.8	0.0	54.9	61.0	61.1	0.0	0.0	64.5	65.6	70.0	N	-	-	6.8	Y	N	N
R7203	2	13.0	C2-6 Social Welfares	-	58.8	0.0	55.5	61.0	61.1	0.0	0.0	64.6	65.6	70.0	N	-	-	6.8	Y	N	N
R7203	3	17.0	C2-6 Social Welfares	-	58.8	0.0	55.7	61.0	61.1	0.0	0.0	64.6	65.6	70.0	N	-	-	6.8	Y	N	N
R7203	4	21.0	C2-6 Social Welfares	-	58.9	0.0	55.8	61.0	61.0	0.0	0.0	64.6	65.6	70.0	N	-	-	6.7	Y	N	N
R7203	5	25.0	C2-6 Social Welfares	-	58.9	0.0	55.7	61.0	61.0	0.0	0.0	64.6	65.6	70.0	N	-	-	6.7	Y	N	N
R7204	1	9.0	C2-6 Social Welfares	-	60.7	0.0	0.0	0.0	69.2	0.0	0.0	69.2	69.8	70.0	N	-	-	9.1	Y	N	N
R7204	2	13.0	C2-6 Social Welfares	-	60.7	0.0	0.0	0.0	69.2	0.0	0.0	69.2	69.8	70.0	N	-	-	9.1	Y	N	N
R7204	3	17.0	C2-6 Social Welfares	-	60.8	0.0	0.0	0.0	69.0	0.0	0.0	69.0	69.6	70.0	N	-	-	8.8	Y	N	N
R7204	4	21.0	C2-6 Social Welfares	-	60.9	0.0	0.0	0.0	68.7	0.0	0.0	68.7	69.4	70.0	N	-	-	8.5	Y	N	N
R7204	5	25.0	C2-6 Social Welfares	-	60.9	0.0	0.0	0.0	68.5	0.0	0.0	68.5	69.2	70.0	N	-	-	8.3	Y	N	N
N7951	1	12.3	D2-9 Kindergarten	-	0.0	0.0	63.6	0.0	44.9	0.0	0.0	63.6	63.6	65.0	N	-	-	60.6	Y	N	N
N7952	1	12.3	D2-9 Kindergarten	-	19.7	0.0	59.0	0.0	37.4	0.0	0.0	59.0	59.0	65.0	N	-	-	39.3	Y	N	N
N7953	1	12.3	D2-9 Kindergarten	-	19.1	0.0	48.1	37.8	58.7	0.0	0.0	59.1	59.1	65.0	N	-	-	39.9	Y	N	N
N7954	1	12.3	D2-9 Kindergarten	-	15.0	0.0	59.6	8.5	55.8	0.0	0.0	61.1	61.1	65.0	N	-	-	46.0	Y	N	N
N7955	1	12.6	D2-9 Kindergarten	-	0.0	0.0	49.5	0.0	30.5	0.0	0.0	49.6	49.6	65.0	N	-	-	46.6	Y	N	N
N7956	1	12.6	D2-9 Kindergarten	-	21.5	0.0	40.5	0.0	57.5	0.0	0.0	57.6	57.6	65.0	N	-	-	36.1	Y	N	N
N7957	1	12.6	D2-9 Kindergarten	-	23.4	0.0	31.1	16.2	63.9	0.0	0.0	63.9	63.9	65.0	N	-	-	40.5	Y	N	N
N7958	1	12.6	D2-9 Kindergarten	-	15.5	0.0	54.2	14.4	62.0	0.0	0.0	62.7	62.7	65.0	N	-	-	47.1	Y	N	N
N7959	1	12.9	D2-9 Kindergarten	-	0.0	0.0	54.5	0.0	11.4	0.0	0.0	54.5	54.5	65.0	N	-	-	51.5	Y	N	N
N7960	1	12.9	D2-9 Kindergarten	-	28.4	0.0	61.7	0.0	69.7	0.0	0.0	70.4	70.4	65.0	Y	-	-	42.0	Y	Y	Y
N7961	1	12.9	D2-9 Kindergarten	-	35.7	0.0	31.1	14.6	71.9	0.0	0.0	71.9	71.9	65.0	Y	-	-	36.2	Y	Y	Y
N7962	1	12.9	D2-9 Kindergarten	-	17.1	0.0	51.6	43.4	66.5	0.0	0.0	66.7	66.7	65.0	Y	-	-	49.5	Y	Y	Y
N7963	1	13.1	D2-9 Kindergarten	-	0.0	0.0	69.4	0.0	57.0	0.0	0.0	69.6	69.6	65.0	Y	-	-	66.6	Y	Y	Y
N7964	1	13.1	D2-9 Kindergarten	-	51.0	0.0	69.0	0.0	22.9	0.0	0.0	69.0	69.1	65.0	Y	-	-	18.1	Y	Y	Y
N7965	1	13.1	D2-9 Kindergarten	-	30.5	0.0	33.3	13.4	38.8	0.0	0.0	39.9	40.4	65.0	N	-	-	9.9	Y	N	N
N7966	1	13.1	D2-9 Kindergarten	-	20.4	0.0	55.7	13.3	69.2	0.0	0.0	69.4	69.4	65.0	Y	-	-	49.0	Y	Y	Y
N7967	1	13.1	D2-9 Kindergarten	-	50.8	0.0	69.4	0.0	27.0	0.0	0.0	69.4	69.4	65.0	Y	-	-	18.6	Y	Y	Y
N7968	1	13.1	D2-9 Kindergarten	-	58.8	0.0	68.7	0.0	18.7	0.0	0.0	68.7	69.1	65.0	Y	-	-	10.3	Y	Y	Y
N7969	1	13.1	D2-9 Kindergarten	-	52.9	0.0	57.6	13.0	37.3	0.0	0.0	57.6	58.9	65.0	N	-	-	6.0	Y	N	N
N7970	1	13.1	D2-9 Kindergarten	-	25.2	0.0	34.1	13.2	39.1	0.0	0.0	40.3	40.4	65.0	N	-	-	15.2	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN Social Welfares & Kindergartens (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road at 2044 dB(A)	Other Roads at 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads at 2044 dB(A) [A] [3]	Overall Noise Level at 2044 dB(A) [B]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [C]	New Road Contribution ≥ 1.0 dB(A) C ≥ 1.0 dB(A)	New Road > Criteria A > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N7971	1	9.5	D2-9 Kindergarten	-	0.0	0.0	59.9	7.3	51.1	0.0	0.0	60.5	60.5	65.0	N	-	-	57.5	Y	N	N
N7971	2	12.5	D2-9 Kindergarten	-	0.0	0.0	61.2	7.3	51.1	0.0	0.0	61.6	61.6	65.0	N	-	-	58.6	Y	N	N
N7971	3	15.5	D2-9 Kindergarten	-	0.0	0.0	62.9	7.3	51.1	0.0	0.0	63.2	63.2	65.0	N	-	-	60.2	Y	N	N
N7971	4	18.5	D2-9 Kindergarten	-	0.0	0.0	64.9	7.3	51.1	0.0	0.0	65.1	65.1	65.0	N	-	-	62.1	Y	N	N
N7971	5	21.5	D2-9 Kindergarten	-	0.0	0.0	66.4	7.3	51.1	0.0	0.0	66.5	66.5	65.0	Y	-	-	63.5	Y	Y	Y
N7971	6	24.5	D2-9 Kindergarten	-	0.0	0.0	67.6	7.3	51.1	0.0	0.0	67.7	67.7	65.0	Y	-	-	64.7	Y	Y	Y
N7971	7	27.5	D2-9 Kindergarten	-	0.0	0.0	68.3	7.3	51.1	0.0	0.0	68.4	68.4	65.0	Y	-	-	65.4	Y	Y	Y
N7972	1	9.5	D2-9 Kindergarten	-	0.0	0.0	65.1	0.0	40.3	0.0	0.0	65.1	65.1	65.0	N	-	-	62.1	Y	N	N
N7972	2	12.5	D2-9 Kindergarten	-	0.0	0.0	66.2	0.0	40.3	0.0	0.0	66.3	66.3	65.0	Y	-	-	63.3	Y	Y	Y
N7972	3	15.5	D2-9 Kindergarten	-	0.0	0.0	68.1	0.0	40.3	0.0	0.0	68.1	68.1	65.0	Y	-	-	65.1	Y	Y	Y
N7972	4	18.5	D2-9 Kindergarten	-	0.0	0.0	69.9	0.0	40.3	0.0	0.0	69.9	69.9	65.0	Y	-	-	66.9	Y	Y	Y
N7972	5	21.5	D2-9 Kindergarten	-	0.0	0.0	71.3	0.0	40.3	0.0	0.0	71.3	71.3	65.0	Y	-	-	68.3	Y	Y	Y
N7972	6	24.5	D2-9 Kindergarten	-	0.0	0.0	72.0	0.0	40.3	0.0	0.0	72.0	72.0	65.0	Y	-	-	69.0	Y	Y	Y
N7972	7	27.5	D2-9 Kindergarten	-	0.0	0.0	72.4	0.0	40.3	0.0	0.0	72.4	72.4	65.0	Y	-	-	69.4	Y	Y	Y
N7973	1	9.5	D2-9 Kindergarten	-	29.3	0.0	67.2	0.0	36.7	0.0	0.0	67.2	67.2	65.0	Y	-	-	37.9	Y	Y	Y
N7973	2	12.5	D2-9 Kindergarten	-	29.3	0.0	68.0	0.0	36.7	0.0	0.0	68.0	68.0	65.0	Y	-	-	38.7	Y	Y	Y
N7973	3	15.5	D2-9 Kindergarten	-	29.3	0.0	69.3	0.0	36.7	0.0	0.0	69.3	69.3	65.0	Y	-	-	40.0	Y	Y	Y
N7973	4	18.5	D2-9 Kindergarten	-	29.3	0.0	70.5	0.0	36.7	0.0	0.0	70.5	70.5	65.0	Y	-	-	41.2	Y	Y	Y
N7973	5	21.5	D2-9 Kindergarten	-	29.3	0.0	71.4	0.0	36.7	0.0	0.0	71.4	71.4	65.0	Y	-	-	42.1	Y	Y	Y
N7973	6	24.5	D2-9 Kindergarten	-	29.3	0.0	71.9	0.0	36.7	0.0	0.0	71.9	71.9	65.0	Y	-	-	42.6	Y	Y	Y
N7973	7	27.5	D2-9 Kindergarten	-	29.3	0.0	72.1	0.0	36.7	0.0	0.0	72.1	72.1	65.0	Y	-	-	42.8	Y	Y	Y
N7974	1	9.5	D2-9 Kindergarten	-	24.6	0.0	65.5	0.0	66.1	0.0	0.0	68.9	68.9	65.0	Y	-	-	44.3	Y	Y	Y
N7974	2	12.5	D2-9 Kindergarten	-	25.2	0.0	65.9	0.0	66.0	0.0	0.0	69.0	69.0	65.0	Y	-	-	43.8	Y	Y	Y
N7974	3	15.5	D2-9 Kindergarten	-	25.8	0.0	66.2	0.0	65.9	0.0	0.0	69.1	69.1	65.0	Y	-	-	43.3	Y	Y	Y
N7974	4	18.5	D2-9 Kindergarten	-	26.8	0.0	66.7	0.0	65.8	0.0	0.0	69.2	69.2	65.0	Y	-	-	42.4	Y	Y	Y
N7974	5	21.5	D2-9 Kindergarten	-	27.9	0.0	67.1	0.0	65.6	0.0	0.0	69.4	69.4	65.0	Y	-	-	41.5	Y	Y	Y
N7974	6	24.5	D2-9 Kindergarten	-	29.3	0.0	67.4	0.0	65.3	0.0	0.0	69.5	69.5	65.0	Y	-	-	40.2	Y	Y	Y
N7974	7	27.5	D2-9 Kindergarten	-	31.0	0.0	67.6	0.0	65.0	0.0	0.0	69.5	69.5	65.0	Y	-	-	38.5	Y	Y	Y
N7975	1	9.5	D2-9 Kindergarten	-	26.9	0.0	28.6	10.6	62.3	0.0	0.0	62.3	62.3	65.0	N	-	-	35.4	Y	N	N
N7975	2	12.5	D2-9 Kindergarten	-	28.0	0.0	28.6	10.6	62.3	0.0	0.0	62.3	62.3	65.0	N	-	-	34.3	Y	N	N
N7975	3	15.5	D2-9 Kindergarten	-	29.3	0.0	28.6	10.6	62.3	0.0	0.0	62.3	62.3	65.0	N	-	-	33.0	Y	N	N
N7975	4	18.5	D2-9 Kindergarten	-	30.8	0.0	28.6	10.6	62.2	0.0	0.0	62.2	62.2	65.0	N	-	-	31.4	Y	N	N
N7975	5	21.5	D2-9 Kindergarten	-	32.1	0.0	28.6	10.6	62.1	0.0	0.0	62.1	62.1	65.0	N	-	-	30.0	Y	N	N
N7975	6	24.5	D2-9 Kindergarten	-	33.7	0.0	28.6	10.6	62.1	0.0	0.0	62.1	62.1	65.0	N	-	-	28.4	Y	N	N
N7975	7	27.5	D2-9 Kindergarten	-	35.6	0.0	28.6	10.6	62.0	0.0	0.0	62.0	62.0	65.0	N	-	-	26.4	Y	N	N
N7976	1	16.0	D2-9 Kindergarten	-	0.0	0.0	56.2	14.2	72.1	0.0	0.0	72.2	72.2	65.0	Y	-	-	69.2	Y	Y	Y
N7976	2	19.0	D2-9 Kindergarten	-	0.0	0.0	56.6	14.2	71.7	0.0	0.0	71.8	71.8	65.0	Y	-	-	68.8	Y	Y	Y
N7976	3	22.0	D2-9 Kindergarten	-	0.0	0.0	57.0	14.2	71.4	0.0	0.0	71.5	71.5	65.0	Y	-	-	68.5	Y	Y	Y
N7977	1	16.0	D2-9 Kindergarten	-	47.5	0.0	58.9	0.0	0.0	0.0	0.0	58.9	59.2	65.0	N	-	-	11.7	Y	N	N
N7977	2	19.0	D2-9 Kindergarten	-	47.9	0.0	59.1	0.0	0.0	0.0	0.0	59.1	59.4	65.0	N	-	-	11.5	Y	N	N
N7977	3	22.0	D2-9 Kindergarten	-	48.5	0.0	59.4	0.0	0.0	0.0	0.0	59.4	59.7	65.0	N	-	-	11.2	Y	N	N
N7978	1	16.0	D2-9 Kindergarten	-	51.0	0.0	57.6	7.6	62.7	0.0	0.0	63.9	64.1	65.0	N	-	-	13.1	Y	N	N
N7978	2	19.0	D2-9 Kindergarten	-	51.4	0.0	57.7	7.6	62.7	0.0	0.0	63.9	64.1	65.0	N	-	-	12.7	Y	N	N
N7978	3	22.0	D2-9 Kindergarten	-	51.8	0.0	57.7	7.6	62.6	0.0	0.0	63.8	64.1	65.0	N	-	-	12.3	Y	N	N
N7979	1	16.0	D2-9 Kindergarten	-	52.0	0.0	0.0	15.9	72.7	0.0	0.0	72.7	72.7	65.0	Y	-	-	20.7	Y	Y	Y
N7979	2	19.0	D2-9 Kindergarten	-	52.3	0.0	0.0	15.9	72.3	0.0	0.0	72.3	72.4	65.0	Y	-	-	20.1	Y	Y	Y
N7979	3	22.0	D2-9 Kindergarten	-	52.6	0.0	0.0	15.9	72.0	0.0	0.0	72.0	72.1	65.0	Y	-	-	19.5	Y	Y	Y
R7751	1	13.0	D3-1c Kindergarten	-	18.5	0.0	46.4	27.8	59.7	0.0	0.0	59.9	59.9	65.0	N	-	-	41.3	Y	N	N
R7751	2	17.5	D3-1c Kindergarten	-	18.9	0.0	46.8	27.7	59.7	0.0	0.0	59.9	59.9	65.0	N	-	-	40.9	Y	N	N
R7752	1	13.0	D3-1c Kindergarten	-	19.1	0.0	27.5	26.9	59.4	0.0	0.0	59.4	59.4	65.0	N	-	-	40.2	Y	N	N
R7752	2	17.5	D3-1c Kindergarten	-	19.5	0.0	27.5	26.9	59.4	0.0	0.0	59.4	59.4	65.0	N	-	-	39.9	Y	N	N
R7757	1	13.0	D3-1c Kindergarten	-	53.5	0.0	25.7	48.3	61.5	0.0	0.0	61.7	62.3	65.0	N	-	-	8.8	Y	N	N
R7757	2	17.5	D3-1c Kindergarten	-	54.5	0.0	25.7	48.3	61.5	0.0	0.0	61.7	62.4	65.0	N	-	-	7.9	Y	N	N
R7758	1	13.0	D3-1c Kindergarten	-	51.7	0.0	27.2	44.8	61.8	0.0	0.0	61.9	62.3	65.0	N	-	-	10.6	Y	N	N
R7758	2	17.5	D3-1c Kindergarten	-	52.6	0.0	27.2	44.8	61.8	0.0	0.0	61.9	62.3	65.0	N	-	-	9.7	Y	N	N
R7901	1	9.5	D3-4 Kindergarten	-	0.0	0.0	39.1	39.1	73.9	0.0	0.0	74.0	74.0	65.0	Y	-	-	71.0	Y	Y	Y
R7901	2	14.0	D3-4 Kindergarten	-	0.0	0.0	39.5	39.1	73.7	0.0	0.0	73.7	73.7	65.0	Y	-	-	70.7	Y	Y	Y
R7902	1	9.5	D3-4 Kindergarten	-	0.0	0.0	41.6	0.0	74.0	0.0	0.0	74.0	74.0	65.0	Y	-	-	71.0	Y	Y	Y
R7902	2	14.0	D3-4 Kindergarten	-	0.0	0.0	42.2	0.0	73.7	0.0	0.0	73.7	73.7	65.0	Y	-	-	70.7	Y	Y	Y
R7903	1	9.5	D3-4 Kindergarten	-	0.0	0.0	48.7	0.0	74.1	0.0	0.0	74.2	74.2	65.0	Y	-	-	71.2	Y	Y	Y
R7903	2	14.0	D3-4 Kindergarten	-	0.0	0.0	49.3	0.0	73.9	0.0	0.0	73.9	73.9	65.0	Y	-	-	70.9	Y	Y	Y
R7904	1	9.5	D3-4 Kindergarten	-	0.0	0.0	50.1	0.0	74.2	0.0	0.0	74.2	74.2	65.0	Y	-	-	71.2	Y	Y	Y
R7904	2	14.0	D3-4 Kindergarten	-	0.0	0.0	50.7	0.0	73.9	0.0	0.0	74.0	74.0	65.0	Y	-	-	71.0	Y	Y	Y
R7906	1	9.5	D3-4 Kindergarten	-	25.3	0.0	25.3	19.1	61.7	0.0	0.0	61.7	61.7	65.0	N	-	-	36.4	Y	N	N
R7906	2	14.0	D3-4 Kindergarten	-	25.7	0.0	25.3	19.1	61.7	0.0	0.0	61.7	61.7	65.0	N	-	-	36.0	Y	N	N
R7907	1	9.5	D3-4 Kindergarten	-	25.0	0.0	45.7	20.1	66.4	0.0	0.0	66.4	66.4	65.0	Y	-	-	41.4	Y	Y	Y
R7907	2	14.0	D3-4 Kindergarten	-	25.2	0.0	46.6	20.1	66.4	0.0	0.0	66.4	66.4	65.0	Y	-	-	41.2	Y	Y	Y
R7908	1	9.5	D3-4 Kindergarten	-	48.1	0.0	48.2	0.0	71.3	0.0	0.0	71.3	71.3	65.0	Y	-	-	23.2	Y	Y	Y

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN Social Welfares & Kindergartens (Unmitigated)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road at 2044 dB(A)	Other Roads at 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads at 2044 dB(A) [A] [3]	Overall Noise Level at 2044 dB(A) [B]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [C]	New Road Contribution ≥ 1.0 dB(A) C ≥ 1.0 dB(A)	New Road > Criteria A > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
R7908	2	14.0	D3-4 Kindergarten	-	48.4	0.0	48.6	0.0	71.2	0.0	0.0	71.2	71.3	65.0	Y	-	-	22.9	Y	Y	Y
R7909	1	9.5	D3-4 Kindergarten	-	51.4	0.0	51.5	5.5	69.8	0.0	0.0	69.9	70.0	65.0	Y	-	-	18.6	Y	Y	Y
R7909	2	14.0	D3-4 Kindergarten	-	51.7	0.0	51.6	5.5	69.8	0.0	0.0	69.8	69.9	65.0	Y	-	-	18.2	Y	Y	Y
R7910	1	9.5	D3-4 Kindergarten	-	52.5	0.0	45.0	6.1	65.9	0.0	0.0	65.9	66.1	65.0	Y	-	-	13.6	Y	Y	Y
R7910	2	14.0	D3-4 Kindergarten	-	52.7	0.0	45.3	6.1	65.9	0.0	0.0	65.9	66.1	65.0	Y	-	-	13.4	Y	Y	Y
R7911	1	9.5	D3-4 Kindergarten	-	51.9	0.0	35.2	6.1	63.8	0.0	0.0	63.8	64.1	65.0	N	-	-	12.2	Y	N	N
R7911	2	14.0	D3-4 Kindergarten	-	52.1	0.0	36.4	6.1	63.8	0.0	0.0	63.8	64.1	65.0	N	-	-	12.0	Y	N	N

Note:

[1] Other Roads refer to planned road projects carried out by others such as Development of Lok Ma Chau Loop, Liantang / Heung Yuen Wai Boundary Control Point and Associated Works, Widening of Tolo Highway/Fanling Highway etc.

[2] PD - Primary Distributor Road; DD - District Distributor Road; LD - Local Distributor Road; EX - Expressway; TR - Trunk Roads.

[3] New Roads refer to the proposed road networks including planned internal roads within FLN NDA and modification of connecting roads to NDA.

[4] For landuse planned under NDA project, mitigation measures are required to mitigate the noise level to within noise criteria.

[5] For existing and planned NSRs outside and within the non-development area of NDA, Direct Mitigation Measures will be required when "With Project Overall Noise Level exceeds Noise Criteria" AND, either "With Project - Without Project Overall Noise Level ≥ 1.0 dB(A)" or "New Roads exceeds Noise Criteria" or "New Roads Contribution ≥ 1.0 dB(A)".

[BLANK]

Appendix 2.4

Details of Road Traffic Noise Impacts on NSRs (Mitigated Scenario - FLN) at Year 2044

[BLANK]

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
N4155	1	7.0	FN-8	50.5	32.3	0.0	60.8	56.5	45.2	0.0	0.0	62.3	62.3	70	N	11.8	Y	30.0	Y	N	N
N4155	2	10.0	FN-8	-	35.4	0.0	62.9	59.4	49.8	0.0	0.0	64.6	64.6	70	N	-	-	29.2	Y	N	N
N4156	1	7.0	FN-8	50.5	29.7	0.0	55.8	62.8	46.7	0.0	0.0	63.7	63.7	65	N	13.2	Y	34.0	Y	N	N
N4432	1	26.4	Green Code	69.8	64.1	0.0	57.5	0.0	18.9	0.0	0.0	57.5	64.9	70	N	-4.9	N	0.8	N	N	N
N4432	2	34.0	Green Code	75.6	72.8	0.0	60.7	0.0	18.9	0.0	0.0	60.7	73.0	70	Y	-2.6	N	0.2	N	N	N
N4432	3	37.1	Green Code	75.4	72.6	0.0	61.2	0.0	18.9	0.0	0.0	61.2	72.9	70	Y	-2.5	N	0.3	N	N	N
N4432	4	40.2	Green Code	75.1	72.4	0.0	61.8	0.0	18.9	0.0	0.0	61.8	72.7	70	Y	-2.4	N	0.3	N	N	N
N4432	5	43.3	Green Code	74.9	72.1	0.0	62.1	0.0	18.9	0.0	0.0	62.1	72.5	70	Y	-2.4	N	0.4	N	N	N
N4432	6	46.4	Green Code	74.6	71.9	0.0	62.3	0.0	18.9	0.0	0.0	62.3	72.3	70	Y	-2.3	N	0.4	N	N	N
N4432	7	49.5	Green Code	74.4	71.6	0.0	62.5	0.0	19.0	0.0	0.0	62.5	72.1	70	Y	-2.3	N	0.5	N	N	N
N4432	8	52.6	Green Code	74.1	71.4	0.0	62.6	0.0	19.0	0.0	0.0	62.6	71.9	70	Y	-2.2	N	0.5	N	N	N
N4432	9	55.7	Green Code	73.9	71.2	0.0	62.6	0.0	19.1	0.0	0.0	62.6	71.8	70	Y	-2.1	N	0.6	N	N	N
N4432	10	58.8	Green Code	73.7	71.0	0.0	62.7	0.0	19.1	0.0	0.0	62.7	71.6	70	Y	-2.1	N	0.6	N	N	N
N4432	11	61.9	Green Code	73.5	70.8	0.0	62.7	0.0	19.2	0.0	0.0	62.7	71.5	70	Y	-2.0	N	0.7	N	N	N
N4432	12	65.0	Green Code	73.3	70.7	0.0	62.7	0.0	19.3	0.0	0.0	62.7	71.3	70	Y	-2.0	N	0.6	N	N	N
N4432	13	68.1	Green Code	73.1	70.5	0.0	62.7	0.0	19.4	0.0	0.0	62.7	71.2	70	Y	-1.9	N	0.7	N	N	N
N4432	14	71.2	Green Code	73	70.4	0.0	62.7	0.0	19.7	0.0	0.0	62.7	71.1	70	Y	-1.9	N	0.7	N	N	N
N4432	15	74.3	Green Code	72.8	70.2	0.0	62.8	0.0	20.1	0.0	0.0	62.8	71.0	70	Y	-1.8	N	0.8	N	N	N
N4432	16	77.4	Green Code	72.6	70.1	0.0	62.8	0.0	20.6	0.0	0.0	62.8	70.8	70	Y	-1.8	N	0.7	N	N	N
N4432	17	80.5	Green Code	72.4	69.9	0.0	62.9	0.0	21.1	0.0	0.0	62.9	70.7	70	Y	-1.7	N	0.8	N	N	N
N4432	18	83.6	Green Code	72.2	69.8	0.0	63.0	0.0	21.7	0.0	0.0	63.0	70.6	70	Y	-1.6	N	0.8	N	N	N
N4432	19	86.7	Green Code	72.1	69.6	0.0	63.3	0.0	22.4	0.0	0.0	63.3	70.5	70	Y	-1.6	N	0.9	N	N	N
N4432	20	89.8	Green Code	71.9	69.5	0.0	63.5	0.0	23.0	0.0	0.0	63.5	70.4	70	N	-1.5	N	0.9	N	N	N
N4432	21	92.9	Green Code	71.8	69.3	0.0	63.7	0.0	23.7	0.0	0.0	63.7	70.4	70	N	-1.4	N	1.1	Y	N	N
N4432	22	96.0	Green Code	71.6	69.2	0.0	63.7	0.0	24.4	0.0	0.0	63.7	70.2	70	N	-1.4	N	1.0	Y	N	N
N4432	23	99.1	Green Code	71.5	69.0	0.0	63.7	0.0	25.2	0.0	0.0	63.7	70.2	70	N	-1.3	N	1.2	Y	N	N
N4432	24	102.2	Green Code	71.3	68.9	0.0	63.7	0.0	26.0	0.0	0.0	63.7	70.1	70	N	-1.2	N	1.2	Y	N	N
N4432	25	105.3	Green Code	71.2	68.8	0.0	63.7	0.0	26.8	0.0	0.0	63.7	69.9	70	N	-1.3	N	1.1	Y	N	N
N4432	26	108.4	Green Code	71.1	68.7	0.0	63.7	0.0	27.7	0.0	0.0	63.7	69.9	70	N	-1.2	N	1.2	Y	N	N
N4432	27	111.5	Green Code	71	68.5	0.0	63.8	0.0	28.6	0.0	0.0	63.8	69.8	70	N	-1.2	N	1.3	Y	N	N
N4432	28	114.6	Green Code	70.9	68.4	0.0	63.8	0.0	29.6	0.0	0.0	63.8	69.7	70	N	-1.2	N	1.3	Y	N	N
N4432	29	117.7	Green Code	70.8	68.3	0.0	63.8	0.0	30.6	0.0	0.0	63.8	69.6	70	N	-1.2	N	1.3	Y	N	N
N4433	1	26.4	Green Code	68.5	61.9	0.0	50.5	0.0	19.3	0.0	0.0	50.5	62.2	70	N	-6.3	N	0.3	N	N	N
N4433	2	34.0	Green Code	74	70.6	0.0	54.7	0.0	19.3	0.0	0.0	54.7	70.7	70	Y	-3.3	N	0.1	N	N	N
N4433	3	37.1	Green Code	73.9	70.4	0.0	54.9	0.0	19.3	0.0	0.0	54.9	70.5	70	Y	-3.4	N	0.1	N	N	N
N4433	4	40.2	Green Code	73.8	70.3	0.0	55.1	0.0	19.3	0.0	0.0	55.1	70.5	70	Y	-3.3	N	0.2	N	N	N
N4433	5	43.3	Green Code	73.7	70.3	0.0	55.3	0.0	19.3	0.0	0.0	55.3	70.4	70	N	-3.3	N	0.1	N	N	N
N4433	6	46.4	Green Code	73.6	70.1	0.0	55.6	0.0	19.3	0.0	0.0	55.6	70.3	70	N	-3.3	N	0.2	N	N	N
N4433	7	49.5	Green Code	73.5	70.0	0.0	55.7	0.0	19.3	0.0	0.0	55.7	70.2	70	N	-3.3	N	0.2	N	N	N
N4433	8	52.6	Green Code	73.3	69.9	0.0	55.9	0.0	19.3	0.0	0.0	55.9	70.1	70	N	-3.2	N	0.2	N	N	N
N4433	9	55.7	Green Code	73.1	69.8	0.0	56.0	0.0	19.4	0.0	0.0	56.0	70.0	70	N	-3.1	N	0.2	N	N	N
N4433	10	58.8	Green Code	73	69.6	0.0	56.2	0.0	19.4	0.0	0.0	56.2	69.8	70	N	-3.2	N	0.2	N	N	N
N4433	11	61.9	Green Code	72.8	69.5	0.0	56.4	0.0	19.5	0.0	0.0	56.4	69.7	70	N	-3.1	N	0.2	N	N	N
N4433	12	65.0	Green Code	72.7	69.4	0.0	56.8	0.0	19.6	0.0	0.0	56.8	69.7	70	N	-3.0	N	0.3	N	N	N
N4433	13	68.1	Green Code	72.5	69.4	0.0	57.1	0.0	19.8	0.0	0.0	57.1	69.6	70	N	-2.9	N	0.2	N	N	N
N4433	14	71.2	Green Code	72.4	69.3	0.0	57.4	0.0	20.2	0.0	0.0	57.4	69.6	70	N	-2.8	N	0.3	N	N	N
N4433	15	74.3	Green Code	72.2	69.2	0.0	57.9	0.0	20.6	0.0	0.0	57.9	69.5	70	N	-2.7	N	0.3	N	N	N
N4433	16	77.4	Green Code	72.1	69.1	0.0	58.6	0.0	21.2	0.0	0.0	58.6	69.5	70	N	-2.6	N	0.4	N	N	N
N4433	17	80.5	Green Code	71.9	69.0	0.0	59.3	0.0	21.8	0.0	0.0	59.3	69.4	70	N	-2.5	N	0.4	N	N	N
N4433	18	83.6	Green Code	71.8	68.9	0.0	60.2	0.0	22.4	0.0	0.0	60.2	69.4	70	N	-2.4	N	0.5	N	N	N
N4433	19	86.7	Green Code	71.6	68.7	0.0	61.1	0.0	23.1	0.0	0.0	61.1	69.4	70	N	-2.2	N	0.7	N	N	N
N4433	20	89.8	Green Code	71.5	68.6	0.0	61.9	0.0	23.8	0.0	0.0	61.9	69.4	70	N	-2.1	N	0.8	N	N	N
N4433	21	92.9	Green Code	71.4	68.4	0.0	62.3	0.0	24.6	0.0	0.0	62.3	69.4	70	N	-2.0	N	1.0	Y	N	N
N4433	22	96.0	Green Code	71.2	68.3	0.0	62.5	0.0	25.4	0.0	0.0	62.5	69.3	70	N	-1.9	N	1.0	Y	N	N
N4433	23	99.1	Green Code	71.1	68.2	0.0	62.6	0.0	26.2	0.0	0.0	62.6	69.2	70	N	-1.9	N	1.0	Y	N	N
N4433	24	102.2	Green Code	71	68.1	0.0	62.6	0.0	27.1	0.0	0.0	62.6	69.2	70	N	-1.8	N	1.1	Y	N	N
N4433	25	105.3	Green Code	70.9	67.9	0.0	62.6	0.0	28.0	0.0	0.0	62.6	69.1	70	N	-1.8	N	1.2	Y	N	N
N4433	26	108.4	Green Code	70.8	67.8	0.0	62.7	0.0	29.0	0.0	0.0	62.7	69.0	70	N	-1.8	N	1.2	Y	N	N
N4433	27	111.5	Green Code	70.6	67.7	0.0	62.8	0.0	30.0	0.0	0.0	62.8	68.9	70	N	-1.7	N	1.2	Y	N	N
N4433	28	114.6	Green Code	70.5	67.6	0.0	62.9	0.0	31.1	0.0	0.0	62.9	68.9	70	N	-1.6	N	1.3	Y	N	N
N4433	29	117.7	Green Code	70.4	67.5	0.0	63.0	0.0	32.4	0.0	0.0	63.0	68.8	70	N	-1.6	N	1.3	Y	N	N
N4644	1	20.4	Shung Him Tong Tsuen	65.3	63.8	0.0	67.4	23.7	0.0	0.0	0.0	67.4	69.0	70	N	3.7	Y	5.2	Y	N	N
N4645	1	20.4	Shung Him Tong Tsuen	66.6	60.1	0.0	64.7	0.0	0.0	0.0	0.0	64.7	66.0	70	N	-0.6	N	5.9	Y	N	N
N4645	2	23.4	Shung Him Tong Tsuen	66.6	60.3	0.0	67.3	0.0	0.0	0.0	0.0	67.3	68.1	70	N	1.5	Y	7.8	Y	N	N
N4645	3	26.4	Shung Him Tong Tsuen	66.6	61.1	0.0	69.2	0.0	0.0	0.0	0.0	69.2	69.8	70	N	3.2	Y	8.7	Y	N	N
N4646	1	23.3	Shung Him Tong Tsuen	65.1	61.7	0.0	65.3	0.0	0.0	0.0	0.0	65.3	66.9	70	N	1.8	Y	5.2	Y	N	N
N4646	2	26.3	Shung Him Tong Tsuen	65.2	62.0	0.0	66.6	0.0	0.0	0.0	0.0	66.6	67.9	70	N	2.7	Y	5.9	Y	N	N
N4647	1	19.7	Shung Him Tong Tsuen	67	66.0	48.0	65.9	0.0	33.6	0.0	0.0	65.9	69.0	70	N	2.0	Y	2.9	Y	N	N
N4648	1	17.7	Shung Him Tong Tsuen	67.7	66.5	51.2	65.7	0.0	0.0	0.0	0.0	65.7	69.2	70	N	1.5	Y	2.6	Y	N	N
N4663	1	17.5	Scattered Village Houses in Tong Hang	68.7	67.1	46.9	64.8	0.0	0.0	0.0	0.0	64.8	69.1	70	N	0.4	N	2.0	Y	N	N
N4663	2	20.5	Scattered Village Houses in Tong Hang	68.7	67.1	48.4	67.0	0.0	0.0	0.0	0.0	67.0	70.1	70	N	1.4	Y	2.9	Y	N	N
N4664	1	16.5	Scattered Village Houses in Tong Hang	69.3	56.3	58.4	62.2	0.0	0.0	0.0	0.0	62.2	64.4	70	N	-4.9	N	3.9	Y	N	N
N4744	1	15.6	R SR8	65.2	13.0	54.5	44.3	51.9	19.0	42.9	0.0	53.0	56.8	70	N	-8.4	N	2.3	Y	N	N
N4744	2	18.6	R SR8	65.6	13.0	55.2	45.9	51.9	19.1	43.5	0.0	53.3	57.4	70	N	-8.2	N	2.2	Y	N	N
N4744	3	21.6	R SR8	66.2	13.1	55.9	47.8	51.9	19.3	44.2	0.0	53.8	58.0	70	N	-8.2	N	2.1	Y	N	N
N4745	1	14.3	R SR8	74.8	71.7	62.2	53.9	61.1	0.0	0.0	0.0	61.9	72.6	70	Y	-2.2	N	0.4	N	N	N
N4781	1	23.6	Area 48	-	51.3	57.9	0.0	58.8	0.0	0.0	0.0	58.8	61.8	70	N	-	-	3.0	Y	N	N
N4781	2	26.4	Area 48	-	53.2	59.4	0.0	58.6	0.0	0.0	0.0	58.6	62.6	70	N	-	-	2.3	Y	N	N
N4781	3	29.1	Area 48	-	54.1	60.8	0.0	58.4	0.0	0.0	0.0	58.4	63.3	70	N	-	-	1.7	Y	N	N
N4781	4	31.9	Area 48	-	54.7	62.0	0.0	58.1	0.0	0.0	0.0	58.1	64.0	70	N	-	-	1.3	Y	N	N
N4781	5	34.6	Area 48	-	55.3	63.0	0.0	57.9	0.0	0.0	0.0	57.9	64.7	70	N	-	-	1.0	Y	N	N
N4781	6	37.4	Area 48	-	56.5	63.9	0.0	57.7	0.0	0.0	0.0	57.7	65.4	70	N	-	-	0.8	N	N	N
N4781	7	40.1	Area 48	-	59.6	64.5	0.0	57.5	0.0	0.0	0.0	57.5	66.3	70	N	-	-	0.6	N	N	N
N4781	8	42.9	Area 48	-	61.4	65.0	0.0	57.3	0.0	0.0	0.0	57.3	67.1	70	N	-	-	0.5	N	N	N
N4781	9	45.6	Area 48	-	62.1	65.6	0.0	57.2	0.0	0.0	0.0	57.2	67.6	70	N	-	-	0.4	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT													
							New Roads[2]								Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
N4781	10	48.4	Area 48	-	62.4	66.0	0.0	57.0	0.0	0.0	0.0	57.0	68.0	70	N	-	-	0.4	N	N	N
N4781	11	51.1	Area 48	-	62.7	66.5	0.0	56.9	0.0	0.0	0.0	56.9	68.3	70	N	-	-	0.3	N	N	N
N4781	12	53.9	Area 48	-	62.9	66.9	0.0	56.7	0.0	0.0	0.0	56.7	68.6	70	N	-	-	0.2	N	N	N
N4781	13	56.6	Area 48	-	63.0	67.1	0.0	56.5	0.0	0.0	0.0	56.5	68.8	70	N	-	-	0.3	N	N	N
N4781	14	59.4	Area 48	-	63.1	67.3	0.0	56.4	0.0	0.0	0.0	56.4	69.0	70	N	-	-	0.3	N	N	N
N4781	15	62.1	Area 48	-	63.2	67.4	0.0	56.2	0.0	0.0	0.0	56.2	69.1	70	N	-	-	0.3	N	N	N
N4781	16	64.9	Area 48	-	63.3	67.5	0.0	56.0	0.0	0.0	0.0	56.0	69.1	70	N	-	-	0.2	N	N	N
N4781	17	67.6	Area 48	-	63.3	67.6	0.0	55.9	0.0	0.0	0.0	55.9	69.2	70	N	-	-	0.2	N	N	N
N4781	18	70.4	Area 48	-	63.4	67.6	0.0	55.8	0.0	0.0	0.0	55.8	69.2	70	N	-	-	0.2	N	N	N
N4781	19	73.1	Area 48	-	63.5	67.6	0.0	55.6	0.0	0.0	0.0	55.6	69.2	70	N	-	-	0.2	N	N	N
N4781	20	75.9	Area 48	-	63.5	67.6	0.0	55.5	0.0	0.0	0.0	55.5	69.2	70	N	-	-	0.2	N	N	N
N4781	21	78.6	Area 48	-	63.6	67.7	0.0	55.4	0.0	0.0	0.0	55.4	69.3	70	N	-	-	0.2	N	N	N
N4781	22	81.4	Area 48	-	63.6	67.7	0.0	55.2	0.0	0.0	0.0	55.2	69.3	70	N	-	-	0.2	N	N	N
N4781	23	84.1	Area 48	-	63.7	67.7	0.0	55.1	0.0	0.0	0.0	55.1	69.3	70	N	-	-	0.1	N	N	N
N4781	24	86.9	Area 48	-	63.8	67.7	0.0	55.0	0.0	0.0	0.0	55.0	69.4	70	N	-	-	0.2	N	N	N
N4781	25	89.6	Area 48	-	63.9	67.7	0.0	54.9	0.0	0.0	0.0	54.9	69.4	70	N	-	-	0.2	N	N	N
N4781	26	92.4	Area 48	-	64.0	67.8	0.0	54.8	0.0	0.0	0.0	54.8	69.4	70	N	-	-	0.1	N	N	N
N4781	27	95.1	Area 48	-	64.1	67.8	0.0	54.7	0.0	0.0	0.0	54.7	69.5	70	N	-	-	0.2	N	N	N
N4781	28	97.9	Area 48	-	64.2	67.8	0.0	54.6	0.0	0.0	0.0	54.6	69.5	70	N	-	-	0.1	N	N	N
N4781	29	100.6	Area 48	-	64.3	67.8	0.0	54.5	0.0	0.0	0.0	54.5	69.5	70	N	-	-	0.1	N	N	N
N4782	1	23.6	Area 48	-	40.1	54.3	0.0	53.0	0.0	0.0	0.0	53.0	56.8	70	N	-	-	2.3	Y	N	N
N4782	2	26.4	Area 48	-	41.8	55.9	0.0	52.9	0.0	0.0	0.0	52.9	57.8	70	N	-	-	1.7	Y	N	N
N4782	3	29.1	Area 48	-	43.8	57.4	0.0	52.9	0.0	0.0	0.0	52.9	58.8	70	N	-	-	1.2	Y	N	N
N4782	4	31.9	Area 48	-	46.0	58.2	0.0	52.8	0.0	0.0	0.0	52.8	59.5	70	N	-	-	1.0	Y	N	N
N4782	5	34.6	Area 48	-	48.8	58.9	0.0	52.8	0.0	0.0	0.0	52.8	60.1	70	N	-	-	0.8	N	N	N
N4782	6	37.4	Area 48	-	52.1	59.4	0.0	52.7	0.0	0.0	0.0	52.7	60.9	70	N	-	-	0.8	N	N	N
N4782	7	40.1	Area 48	-	57.0	60.2	0.0	52.7	0.0	0.0	0.0	52.7	62.4	70	N	-	-	0.5	N	N	N
N4782	8	42.9	Area 48	-	59.8	61.0	0.0	52.8	0.0	0.0	0.0	52.8	63.8	70	N	-	-	0.3	N	N	N
N4782	9	45.6	Area 48	-	60.8	61.8	0.0	53.1	0.0	0.0	0.0	53.1	64.6	70	N	-	-	0.3	N	N	N
N4782	10	48.4	Area 48	-	61.2	62.5	0.0	53.1	0.0	0.0	0.0	53.1	65.2	70	N	-	-	0.3	N	N	N
N4782	11	51.1	Area 48	-	61.6	63.2	0.0	53.0	0.0	0.0	0.0	53.0	65.7	70	N	-	-	0.2	N	N	N
N4782	12	53.9	Area 48	-	61.8	63.7	0.0	52.9	0.0	0.0	0.0	52.9	66.1	70	N	-	-	0.2	N	N	N
N4782	13	56.6	Area 48	-	62.0	64.0	0.0	52.8	0.0	0.0	0.0	52.8	66.3	70	N	-	-	0.2	N	N	N
N4782	14	59.4	Area 48	-	62.1	64.1	0.0	52.8	0.0	0.0	0.0	52.8	66.4	70	N	-	-	0.2	N	N	N
N4782	15	62.1	Area 48	-	62.2	64.3	0.0	52.7	0.0	0.0	0.0	52.7	66.6	70	N	-	-	0.2	N	N	N
N4782	16	64.9	Area 48	-	62.2	64.4	0.0	52.6	0.0	0.0	0.0	52.6	66.6	70	N	-	-	0.2	N	N	N
N4782	17	67.6	Area 48	-	62.3	64.5	0.0	52.5	0.0	0.0	0.0	52.5	66.7	70	N	-	-	0.2	N	N	N
N4782	18	70.4	Area 48	-	62.4	64.5	0.0	52.4	0.0	0.0	0.0	52.4	66.8	70	N	-	-	0.2	N	N	N
N4782	19	73.1	Area 48	-	62.5	64.6	0.0	52.4	0.0	0.0	0.0	52.4	66.8	70	N	-	-	0.1	N	N	N
N4782	20	75.9	Area 48	-	62.6	64.6	0.0	52.3	0.0	0.0	0.0	52.3	66.9	70	N	-	-	0.2	N	N	N
N4782	21	78.6	Area 48	-	62.6	64.6	0.0	52.2	0.0	0.0	0.0	52.2	66.9	70	N	-	-	0.2	N	N	N
N4782	22	81.4	Area 48	-	62.7	64.6	0.0	52.2	0.0	0.0	0.0	52.2	66.9	70	N	-	-	0.1	N	N	N
N4782	23	84.1	Area 48	-	62.8	64.6	0.0	52.1	0.0	0.0	0.0	52.1	67.0	70	N	-	-	0.2	N	N	N
N4782	24	86.9	Area 48	-	62.9	64.6	0.0	52.0	0.0	0.0	0.0	52.0	67.0	70	N	-	-	0.2	N	N	N
N4782	25	89.6	Area 48	-	63.0	64.7	0.0	52.0	0.0	0.0	0.0	52.0	67.1	70	N	-	-	0.2	N	N	N
N4782	26	92.4	Area 48	-	63.1	64.7	0.0	51.9	0.0	0.0	0.0	51.9	67.1	70	N	-	-	0.1	N	N	N
N4782	27	95.1	Area 48	-	63.2	64.7	0.0	51.9	0.0	0.0	0.0	51.9	67.2	70	N	-	-	0.2	N	N	N
N4782	28	97.9	Area 48	-	63.3	64.7	0.0	51.8	0.0	0.0	0.0	51.8	67.2	70	N	-	-	0.1	N	N	N
N4782	29	100.6	Area 48	-	63.5	64.8	0.0	51.8	0.0	0.0	0.0	51.8	67.3	70	N	-	-	0.1	N	N	N
N4783	1	23.6	Area 48	-	50.8	58.2	50.7	55.6	0.0	52.3	0.0	58.1	61.6	70	N	-	-	2.7	Y	N	N
N4783	2	26.4	Area 48	-	53.0	58.7	51.8	55.6	0.0	53.6	0.0	58.7	62.3	70	N	-	-	2.6	Y	N	N
N4783	3	29.1	Area 48	-	54.1	59.4	52.6	55.5	0.0	54.4	0.0	59.1	62.9	70	N	-	-	2.4	Y	N	N
N4783	4	31.9	Area 48	-	54.9	60.0	53.1	55.4	0.0	54.7	0.0	59.3	63.3	70	N	-	-	2.1	Y	N	N
N4783	5	34.6	Area 48	-	55.7	61.0	53.5	55.3	0.0	54.9	0.0	59.4	64.0	70	N	-	-	1.9	Y	N	N
N4783	6	37.4	Area 48	-	56.8	61.7	53.9	55.1	0.0	55.0	0.0	59.5	64.5	70	N	-	-	1.6	Y	N	N
N4783	7	40.1	Area 48	-	59.0	62.8	54.1	55.0	0.0	55.0	0.0	59.5	65.5	70	N	-	-	1.2	Y	N	N
N4783	8	42.9	Area 48	-	61.0	63.8	54.2	54.9	0.0	55.0	0.0	59.5	66.6	70	N	-	-	1.0	Y	N	N
N4783	9	45.6	Area 48	-	62.1	64.9	54.4	54.9	0.0	54.9	0.0	59.5	67.5	70	N	-	-	0.8	N	N	N
N4783	10	48.4	Area 48	-	62.6	65.5	54.5	55.0	0.0	55.0	0.0	59.6	68.0	70	N	-	-	0.7	N	N	N
N4783	11	51.1	Area 48	-	62.9	65.9	54.5	55.2	0.0	54.8	0.0	59.6	68.3	70	N	-	-	0.6	N	N	N
N4783	12	53.9	Area 48	-	63.0	66.2	54.5	55.6	0.0	54.7	0.0	59.8	68.5	70	N	-	-	0.6	N	N	N
N4783	13	56.6	Area 48	-	63.0	66.6	54.5	55.9	0.0	54.6	0.0	59.8	68.7	70	N	-	-	0.5	N	N	N
N4783	14	59.4	Area 48	-	63.1	66.8	54.5	55.9	0.0	54.4	0.0	59.8	68.9	70	N	-	-	0.6	N	N	N
N4783	15	62.1	Area 48	-	63.1	67.1	54.5	55.9	0.0	54.3	0.0	59.7	69.1	70	N	-	-	0.5	N	N	N
N4783	16	64.9	Area 48	-	63.1	67.2	54.5	55.9	0.0	54.3	0.0	59.7	69.2	70	N	-	-	0.6	N	N	N
N4783	17	67.6	Area 48	-	63.1	67.3	54.4	55.8	0.0	54.1	0.0	59.6	69.2	70	N	-	-	0.5	N	N	N
N4783	18	70.4	Area 48	-	63.2	67.5	54.4	55.8	0.0	54.0	0.0	59.6	69.3	70	N	-	-	0.4	N	N	N
N4783	19	73.1	Area 48	-	63.2	67.6	54.3	55.6	0.0	54.0	0.0	59.5	69.4	70	N	-	-	0.5	N	N	N
N4783	20	75.9	Area 48	-	63.2	67.7	54.2	55.6	0.0	53.8	0.0	59.4	69.4	70	N	-	-	0.4	N	N	N
N4783	21	78.6	Area 48	-	63.2	67.7	54.2	55.4	0.0	53.7	0.0	59.3	69.5	70	N	-	-	0.5	N	N	N
N4783	22	81.4	Area 48	-	63.3	67.8	54.1	55.4	0.0	53.7	0.0	59.2	69.5	70	N	-	-	0.4	N	N	N
N4783	23	84.1	Area 48	-	63.3	67.8	54.0	55.2	0.0	53.6	0.0	59.1	69.5	70	N	-	-	0.4	N	N	N
N4783	24	86.9	Area 48	-	63.3	67.9	54.0	55.2	0.0	53.5	0.0	59.0	69.6	70	N	-	-	0.4	N	N	N
N4783	25	89.6	Area 48	-	63.3	67.9	53.9	55.1	0.0	53.4	0.0	59.0	69.6	70	N	-	-	0.4	N	N	N
N4783	26	92.4	Area 48	-	63.4	67.9	53.8	55.0	0.0	53.4	0.0	58.9	69.6	70	N	-	-	0.4	N	N	N
N4783	27	95.1	Area 48	-	63.4	68.0	53.7	55.0	0.0	53.4	0.0	58.9	69.7	70	N	-	-	0.4	N	N	N
N4783	28	97.9	Area 48	-	63.5	68.0	53.7	54.9	0.0	53.5	0.0	58.8	69.7	70	N	-	-	0.4	N	N	N
N4783	29	100.6	Area 48	-	63.5	68.0	53.6	54.9	0.0	53.3	0.0	58.7	69.7	70	N	-	-	0.4	N	N	N
N4784	1	23.6	Area 48	-	14.0	55.0	48.4	56.2	27.0	51.0	0.0	57.9	59.7	70	N	-	-	4.7	Y	N	N
N4784	2	26.4	Area 48	-	14.2	55.3	48.7	56.2	27.4	51.6	0.0	58.0	59.9	70	N	-	-	4.6	Y	N	N
N4784	3	29.1	Area 48	-	14.5	55.6	49.1	56.1	28.3	52.2	0.0	58.2	60.1	70	N	-	-	4.5	Y	N	N
N4784	4	31.9	Area 48	-	14.8	55.8	49.5	56.1	29.4	53.0	0.0	58.4	60.3	70	N	-	-	4.5	Y	N	N
N4784	5	34.6	Area 48	-	15.1	56.3	50.0	56.0	30.8	53.9	0.0	58.7	60.7	70	N	-	-	4.4	Y	N	N
N4784	6	37.4	Area 48	-	15.3	56.8	50.5	55.9	32.5	54.8	0.0	59.1	61.1	70	N	-	-	4.3	Y	N	N
N4784	7	40.1	Area 48	-	15.7	57.4	51.2	55.8	33.6	55.5	0.0	59.4	61.5	70	N	-	-	4.1	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT									Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]												
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)												
N4784	8	42.9	Area 48	-	16.0	58.2	51.1	55.6	34.2	56.4	0.0	59.7	62.0	70	N	-	-	3.8	Y	N	N
N4784	9	45.6	Area 48	-	16.4	59.1	51.2	55.5	34.4	57.2	0.0	60.1	62.6	70	N	-	-	3.5	Y	N	N
N4784	10	48.4	Area 48	-	16.8	60.4	51.5	55.4	34.5	57.8	0.0	60.4	63.4	70	N	-	-	3.0	Y	N	N
N4784	11	51.1	Area 48	-	17.2	61.7	51.9	55.3	34.6	58.3	0.0	60.7	64.2	70	N	-	-	2.5	Y	N	N
N4784	12	53.9	Area 48	-	17.6	62.8	52.4	55.1	34.6	58.7	0.0	60.9	65.0	70	N	-	-	2.2	Y	N	N
N4784	13	56.6	Area 48	-	18.1	63.9	52.9	55.0	34.6	59.1	0.0	61.2	65.8	70	N	-	-	1.9	Y	N	N
N4784	14	59.4	Area 48	-	18.6	64.6	53.3	54.9	34.5	59.5	0.0	61.5	66.3	70	N	-	-	1.7	Y	N	N
N4784	15	62.1	Area 48	-	19.1	65.0	53.6	54.8	34.5	59.9	0.0	61.8	66.7	70	N	-	-	1.7	Y	N	N
N4784	16	64.9	Area 48	-	19.5	65.2	53.9	54.7	34.5	60.5	0.0	62.2	67.0	70	N	-	-	1.8	Y	N	N
N4784	17	67.6	Area 48	-	20.1	65.3	54.1	54.5	34.5	61.3	0.0	62.8	67.2	70	N	-	-	1.9	Y	N	N
N4784	18	70.4	Area 48	-	20.6	65.3	54.3	54.4	34.5	61.5	0.0	63.0	67.3	70	N	-	-	2.0	Y	N	N
N4784	19	73.1	Area 48	-	21.2	65.4	54.5	54.4	34.5	61.9	0.0	63.2	67.5	70	N	-	-	2.1	Y	N	N
N4784	20	75.9	Area 48	-	21.9	65.4	54.7	54.2	34.5	62.4	0.0	63.6	67.6	70	N	-	-	2.2	Y	N	N
N4784	21	78.6	Area 48	-	22.5	65.4	54.8	54.2	34.4	62.8	0.0	63.9	67.7	70	N	-	-	2.3	Y	N	N
N4784	22	81.4	Area 48	-	23.1	65.3	54.9	54.1	34.4	63.1	0.0	64.2	67.8	70	N	-	-	2.5	Y	N	N
N4784	23	84.1	Area 48	-	23.9	65.3	55.0	54.1	34.5	63.3	0.0	64.3	67.8	70	N	-	-	2.5	Y	N	N
N4784	24	86.9	Area 48	-	24.6	65.3	55.1	54.0	34.5	63.5	0.0	64.5	67.9	70	N	-	-	2.6	Y	N	N
N4784	25	89.6	Area 48	-	25.4	65.2	55.2	54.0	34.7	63.6	0.0	64.6	67.9	70	N	-	-	2.7	Y	N	N
N4784	26	92.4	Area 48	-	26.2	65.1	55.1	54.0	34.8	63.8	0.0	64.7	67.9	70	N	-	-	2.8	Y	N	N
N4784	27	95.1	Area 48	-	27.1	65.0	55.2	54.0	35.2	63.8	0.0	64.7	67.9	70	N	-	-	2.9	Y	N	N
N4784	28	97.9	Area 48	-	28.0	64.9	55.3	54.0	35.5	63.9	0.0	64.9	67.9	70	N	-	-	3.0	Y	N	N
N4784	29	100.6	Area 48	-	29.1	64.8	55.3	54.0	36.0	63.9	0.0	64.9	67.9	70	N	-	-	3.1	Y	N	N
N4785	1	23.6	Area 48	-	13.1	38.2	33.3	41.9	23.0	43.4	0.0	46.0	46.7	70	N	-	-	8.5	Y	N	N
N4785	2	26.4	Area 48	-	13.1	38.8	33.7	41.8	23.0	43.5	0.0	46.0	46.8	70	N	-	-	8.0	Y	N	N
N4785	3	29.1	Area 48	-	13.2	39.5	33.9	41.8	23.0	43.7	0.0	46.1	47.0	70	N	-	-	7.5	Y	N	N
N4785	4	31.9	Area 48	-	13.3	40.2	34.2	41.6	23.1	43.9	0.0	46.2	47.2	70	N	-	-	7.0	Y	N	N
N4785	5	34.6	Area 48	-	13.3	41.2	34.5	41.4	23.1	44.1	0.0	46.2	47.4	70	N	-	-	6.2	Y	N	N
N4785	6	37.4	Area 48	-	13.4	42.3	34.8	41.2	23.2	44.3	0.0	46.4	47.8	70	N	-	-	5.5	Y	N	N
N4785	7	40.1	Area 48	-	13.4	43.7	35.2	41.0	23.3	44.5	0.0	46.5	48.3	70	N	-	-	4.6	Y	N	N
N4785	8	42.9	Area 48	-	13.5	45.8	35.7	40.8	23.4	44.8	0.0	46.6	49.2	70	N	-	-	3.4	Y	N	N
N4785	9	45.6	Area 48	-	13.5	46.9	36.5	40.6	23.4	45.2	0.0	46.9	49.9	70	N	-	-	3.0	Y	N	N
N4785	10	48.4	Area 48	-	13.5	48.6	36.4	40.4	23.4	45.6	0.0	47.2	51.0	70	N	-	-	2.4	Y	N	N
N4785	11	51.1	Area 48	-	13.6	49.6	36.7	40.2	23.5	46.5	0.0	47.8	51.8	70	N	-	-	2.2	Y	N	N
N4785	12	53.9	Area 48	-	13.6	50.0	36.9	39.9	23.6	46.6	0.0	47.9	52.1	70	N	-	-	2.1	Y	N	N
N4785	13	56.6	Area 48	-	13.6	50.2	37.4	39.7	23.6	47.2	0.0	48.3	52.4	70	N	-	-	2.2	Y	N	N
N4785	14	59.4	Area 48	-	13.7	50.3	37.9	39.5	23.7	47.8	0.0	48.8	52.6	70	N	-	-	2.3	Y	N	N
N4785	15	62.1	Area 48	-	13.7	50.3	38.4	39.4	23.8	48.4	0.0	49.3	52.9	70	N	-	-	2.6	Y	N	N
N4785	16	64.9	Area 48	-	13.7	50.1	38.6	39.2	23.9	48.7	0.0	49.5	52.9	70	N	-	-	2.8	Y	N	N
N4785	17	67.6	Area 48	-	13.8	50.1	38.9	39.0	24.0	49.0	0.0	49.8	53.0	70	N	-	-	2.9	Y	N	N
N4785	18	70.4	Area 48	-	13.8	50.0	39.1	38.8	24.1	49.0	0.0	49.8	52.9	70	N	-	-	2.9	Y	N	N
N4785	19	73.1	Area 48	-	13.8	49.9	39.4	38.6	24.2	49.2	0.0	50.0	53.0	70	N	-	-	3.1	Y	N	N
N4785	20	75.9	Area 48	-	13.8	49.8	39.5	38.5	24.3	49.3	0.0	50.1	53.0	70	N	-	-	3.2	Y	N	N
N4785	21	78.6	Area 48	-	13.8	49.7	39.6	38.3	24.4	49.4	0.0	50.2	53.0	70	N	-	-	3.3	Y	N	N
N4785	22	81.4	Area 48	-	13.7	49.6	39.8	38.2	24.6	49.5	0.0	50.2	53.0	70	N	-	-	3.4	Y	N	N
N4785	23	84.1	Area 48	-	14.2	49.5	39.8	38.1	24.7	49.6	0.0	50.3	53.0	70	N	-	-	3.5	Y	N	N
N4785	24	86.9	Area 48	-	15.6	49.4	39.9	38.0	25.0	49.7	0.0	50.4	53.0	70	N	-	-	3.6	Y	N	N
N4785	25	89.6	Area 48	-	17.2	49.3	39.9	37.8	25.8	49.7	0.0	50.4	52.9	70	N	-	-	3.6	Y	N	N
N4785	26	92.4	Area 48	-	19.0	49.2	40.2	37.8	27.0	49.8	0.0	50.5	52.9	70	N	-	-	3.7	Y	N	N
N4785	27	95.1	Area 48	-	21.0	49.1	40.6	37.7	28.5	50.1	0.0	50.8	53.1	70	N	-	-	4.0	Y	N	N
N4785	28	97.9	Area 48	-	23.3	49.0	41.0	37.9	30.0	50.6	0.0	51.3	53.3	70	N	-	-	4.3	Y	N	N
N4785	29	100.6	Area 48	-	25.5	48.9	41.7	38.3	31.7	51.2	0.0	51.9	53.7	70	N	-	-	4.8	Y	N	N
N4786	1	23.6	Area 48	-	36.9	41.2	28.3	29.6	0.0	32.8	0.0	35.4	43.3	70	N	-	-	0.7	N	N	N
N4786	2	26.4	Area 48	-	37.3	41.2	28.2	29.4	0.0	32.8	0.0	35.4	43.4	70	N	-	-	0.7	N	N	N
N4786	3	29.1	Area 48	-	37.9	41.2	28.2	29.3	0.0	32.7	0.0	35.2	43.5	70	N	-	-	0.6	N	N	N
N4786	4	31.9	Area 48	-	38.7	41.1	28.1	29.1	0.0	32.6	0.0	35.1	43.7	70	N	-	-	0.6	N	N	N
N4786	5	34.6	Area 48	-	39.8	41.1	27.9	28.9	0.0	32.4	0.0	34.9	44.1	70	N	-	-	0.6	N	N	N
N4786	6	37.4	Area 48	-	41.2	41.1	27.8	28.7	0.0	32.1	0.0	34.7	44.6	70	N	-	-	0.4	N	N	N
N4786	7	40.1	Area 48	-	42.5	41.0	27.7	28.5	0.0	32.0	0.0	34.6	45.2	70	N	-	-	0.4	N	N	N
N4786	8	42.9	Area 48	-	43.2	41.0	27.6	28.3	0.0	31.8	0.0	34.4	45.6	70	N	-	-	0.4	N	N	N
N4786	9	45.6	Area 48	-	44.0	40.9	27.4	28.1	0.0	31.6	0.0	34.2	46.0	70	N	-	-	0.3	N	N	N
N4786	10	48.4	Area 48	-	44.8	40.9	27.3	27.9	0.0	31.3	0.0	34.0	46.5	70	N	-	-	0.2	N	N	N
N4786	11	51.1	Area 48	-	45.2	40.9	27.2	27.7	0.0	31.2	0.0	33.9	46.8	70	N	-	-	0.2	N	N	N
N4786	12	53.9	Area 48	-	45.7	40.8	27.1	27.5	0.0	31.0	0.0	33.7	47.1	70	N	-	-	0.2	N	N	N
N4786	13	56.6	Area 48	-	46.2	40.7	26.9	27.4	0.0	30.8	0.0	33.5	47.4	70	N	-	-	0.1	N	N	N
N4786	14	59.4	Area 48	-	46.6	40.7	26.8	27.2	0.0	30.6	0.0	33.3	47.7	70	N	-	-	0.1	N	N	N
N4786	15	62.1	Area 48	-	46.9	40.6	26.7	27.1	0.0	30.5	0.0	33.2	47.9	70	N	-	-	0.1	N	N	N
N4786	16	64.9	Area 48	-	47.0	40.6	26.6	26.9	0.0	30.3	0.0	33.0	48.0	70	N	-	-	0.1	N	N	N
N4786	17	67.6	Area 48	-	47.2	40.5	26.5	26.8	0.0	30.1	0.0	32.9	48.2	70	N	-	-	0.2	N	N	N
N4786	18	70.4	Area 48	-	47.3	40.4	26.4	26.6	0.0	29.9	0.0	32.7	48.2	70	N	-	-	0.1	N	N	N
N4786	19	73.1	Area 48	-	47.3	40.4	26.3	26.5	0.0	29.8	0.0	32.6	48.3	70	N	-	-	0.2	N	N	N
N4786	20	75.9	Area 48	-	47.4	40.3	26.2	26.4	0.0	29.6	0.0	32.5	48.3	70	N	-	-	0.1	N	N	N
N4786	21	78.6	Area 48	-	47.4	40.3	26.1	26.2	0.0	29.5	0.0	32.3	48.3	70	N	-	-	0.1	N	N	N
N4786	22	81.4	Area 48	-	47.5	40.2	26.0	26.1	0.0	29.4	0.0	32.2	48.3	70	N	-	-	0.1	N	N	N
N4786	23	84.1	Area 48	-	47.5	40.1	25.9	26.0	0.0	29.2	0.0	32.1	48.3	70	N	-	-	0.1	N	N	N
N4786	24	86.9	Area 48	-	47.5	40.1	25.8	26.0	0.0	29.1	0.0	32.0	48.3	70	N	-	-	0.1	N	N	N
N4786	25	89.6	Area 48	-	47.5	40.0	25.7	26.1	0.0	28.9	0.0	31.9	48.3	70	N	-	-	0.1	N	N	N
N4786	26	92.4	Area 48	-	47.6	40.0	26.2	26.2	0.0	28.8	0.0	32.0	48.4	70	N	-	-	0.1	N	N	N
N4786	27	95.1	Area 48	-	47.7	41.2	27.7	26.5	0.0	28.5	0.0	32.4	48.7	70	N	-	-	0.1	N	N	N
N4786	28	97.9	Area 48	-	48.1	42.9	30.2	27.1	0.0	29.7	0.0	34.0	49.3	70	N	-	-	0.1	N	N	N
N4786	29	100.6	Area 48	-	48.8	44.9	33.2	28.5	0.0	32.1	0.0	36.4	50.5	70	N	-	-	0.2	N	N	N
N4787	1	23.6	Area 48	-	38.0	51.7	47.8	56.0	0.0	41.7	0.0	56.7	58.0	70	N	-	-	6.1	Y	N	N
N4787	2	26.4	Area 48	-	38.6	52.1	48.4	56.0	0.0	42.0	0.0	56.8	58.1	70	N	-	-	5.8	Y	N	N
N4787	3	29.1	Area 48	-	39.2	52.6	48.9	55.9	0.0	42.3	0.0	56.8	58.3	70	N	-	-	5.5	Y	N	N
N4787	4	31.9	Area 48	-	40.0	53.1	49.3	55.8	0.0	42.7	0.0	56.8	58.4	70	N	-	-	5.1	Y	N	N
N4787	5	34.6	Area 48	-	40.8	53.5	49.7	55.7	0.0	43.1	0.0	56.8	58.6	70	N	-	-	4.9	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
N4787	6	37.4	Area 48	-	42.0	54.1	50.1	55.6	0.0	43.4	0.0	56.9	58.8	70	N	-	-	4.4	Y	N	N
N4787	7	40.1	Area 48	-	43.4	54.5	50.8	55.5	0.0	43.9	0.0	57.0	59.1	70	N	-	-	4.3	Y	N	N
N4787	8	42.9	Area 48	-	45.3	55.1	51.0	55.4	0.0	44.2	0.0	57.0	59.3	70	N	-	-	3.8	Y	N	N
N4787	9	45.6	Area 48	-	47.9	55.6	50.9	55.3	0.0	44.6	0.0	56.9	59.6	70	N	-	-	3.3	Y	N	N
N4787	10	48.4	Area 48	-	51.0	56.2	51.2	55.2	0.0	45.0	0.0	56.9	60.1	70	N	-	-	2.8	Y	N	N
N4787	11	51.1	Area 48	-	52.8	56.8	51.3	55.0	0.0	45.3	0.0	56.9	60.6	70	N	-	-	2.3	Y	N	N
N4787	12	53.9	Area 48	-	53.7	57.3	51.7	54.9	0.0	45.7	0.0	56.9	61.0	70	N	-	-	2.1	Y	N	N
N4787	13	56.6	Area 48	-	54.2	57.9	52.2	54.8	0.0	46.0	0.0	57.0	61.4	70	N	-	-	2.0	Y	N	N
N4787	14	59.4	Area 48	-	54.5	58.5	52.5	54.6	0.0	46.4	0.0	57.1	61.8	70	N	-	-	1.8	Y	N	N
N4787	15	62.1	Area 48	-	54.6	59.2	52.9	54.5	0.0	46.8	0.0	57.2	62.2	70	N	-	-	1.7	Y	N	N
N4787	16	64.9	Area 48	-	54.6	60.0	53.2	54.4	0.0	47.1	0.0	57.3	62.6	70	N	-	-	1.5	Y	N	N
N4787	17	67.6	Area 48	-	54.6	60.5	53.4	54.2	0.0	47.5	0.0	57.3	62.9	70	N	-	-	1.4	Y	N	N
N4787	18	70.4	Area 48	-	54.6	61.1	53.6	54.1	0.0	47.8	0.0	57.4	63.3	70	N	-	-	1.3	Y	N	N
N4787	19	73.1	Area 48	-	54.6	62.0	53.9	54.0	0.0	48.2	0.0	57.5	63.8	70	N	-	-	1.1	Y	N	N
N4787	20	75.9	Area 48	-	54.6	63.0	54.0	53.9	0.0	48.4	0.0	57.5	64.5	70	N	-	-	0.9	N	N	N
N4787	21	78.6	Area 48	-	54.6	63.1	54.2	53.7	0.0	48.7	0.0	57.6	64.7	70	N	-	-	1.0	Y	N	N
N4787	22	81.4	Area 48	-	54.6	63.5	54.4	53.6	0.0	49.0	0.0	57.7	64.9	70	N	-	-	0.9	N	N	N
N4787	23	84.1	Area 48	-	54.5	64.1	54.4	53.5	0.0	49.4	0.0	57.7	65.4	70	N	-	-	0.8	N	N	N
N4787	24	86.9	Area 48	-	54.5	64.6	54.6	53.4	0.0	49.7	0.0	57.8	65.7	70	N	-	-	0.7	N	N	N
N4787	25	89.6	Area 48	-	54.5	64.9	54.6	53.2	0.0	50.0	0.0	57.8	66.0	70	N	-	-	0.7	N	N	N
N4787	26	92.4	Area 48	-	54.5	65.2	54.7	53.1	0.0	50.3	0.0	57.8	66.2	70	N	-	-	0.6	N	N	N
N4787	27	95.1	Area 48	-	54.5	65.4	54.8	53.0	0.0	50.6	0.0	57.9	66.4	70	N	-	-	0.7	N	N	N
N4787	28	97.9	Area 48	-	54.6	65.7	54.8	52.9	0.0	50.9	0.0	57.9	66.6	70	N	-	-	0.6	N	N	N
N4787	29	100.6	Area 48	-	54.7	65.8	54.9	52.8	0.0	51.2	0.0	58.0	66.8	70	N	-	-	0.7	N	N	N
N4788	1	23.6	Area 48	-	30.4	63.9	50.2	55.8	39.2	55.5	0.0	59.3	65.2	70	N	-	-	1.3	Y	N	N
N4788	2	26.4	Area 48	-	30.4	63.7	50.6	56.2	40.4	56.1	0.0	59.8	65.2	70	N	-	-	1.5	Y	N	N
N4788	3	29.1	Area 48	-	30.8	63.6	51.0	56.5	41.5	56.7	0.0	60.2	65.2	70	N	-	-	1.6	Y	N	N
N4788	4	31.9	Area 48	-	31.4	63.4	51.4	56.6	42.5	57.3	0.0	60.6	65.2	70	N	-	-	1.8	Y	N	N
N4788	5	34.6	Area 48	-	32.0	63.2	51.8	56.7	43.5	57.9	0.0	61.0	65.2	70	N	-	-	2.0	Y	N	N
N4788	6	37.4	Area 48	-	32.5	63.0	52.2	56.8	44.6	58.5	0.0	61.4	65.3	70	N	-	-	2.3	Y	N	N
N4788	7	40.1	Area 48	-	33.2	62.8	52.7	56.9	45.4	59.2	0.0	61.8	65.4	70	N	-	-	2.6	Y	N	N
N4788	8	42.9	Area 48	-	33.9	62.7	53.5	56.9	46.2	59.8	0.0	62.3	65.5	70	N	-	-	2.8	Y	N	N
N4788	9	45.6	Area 48	-	34.6	62.5	53.9	56.9	46.9	60.5	0.0	62.8	65.7	70	N	-	-	3.2	Y	N	N
N4788	10	48.4	Area 48	-	35.2	62.3	54.0	57.0	47.5	61.2	0.0	63.3	65.8	70	N	-	-	3.5	Y	N	N
N4788	11	51.1	Area 48	-	36.0	62.1	54.2	57.1	47.9	61.9	0.0	63.8	66.0	70	N	-	-	3.9	Y	N	N
N4788	12	53.9	Area 48	-	36.7	61.9	54.5	57.2	48.3	62.6	0.0	64.3	66.3	70	N	-	-	4.4	Y	N	N
N4788	13	56.6	Area 48	-	37.6	61.8	55.0	57.2	48.6	63.4	0.0	64.9	66.7	70	N	-	-	4.9	Y	N	N
N4788	14	59.4	Area 48	-	38.3	61.6	55.5	57.3	48.8	64.3	0.0	65.6	67.1	70	N	-	-	5.5	Y	N	N
N4788	15	62.1	Area 48	-	39.1	61.5	55.8	57.4	49.0	65.1	0.0	66.3	67.5	70	N	-	-	6.0	Y	N	N
N4788	16	64.9	Area 48	-	39.9	61.3	56.2	57.5	49.1	65.6	0.0	66.7	67.8	70	N	-	-	6.5	Y	N	N
N4788	17	67.6	Area 48	-	40.8	61.2	56.5	57.7	49.2	66.0	0.0	67.1	68.1	70	N	-	-	6.9	Y	N	N
N4788	18	70.4	Area 48	-	41.6	61.0	56.8	57.9	49.3	66.4	0.0	67.4	68.3	70	N	-	-	7.3	Y	N	N
N4788	19	73.1	Area 48	-	42.4	60.9	57.0	58.0	49.4	66.8	0.0	67.8	68.6	70	N	-	-	7.6	Y	N	N
N4788	20	75.9	Area 48	-	43.3	60.7	57.3	58.0	49.5	67.1	0.0	68.0	68.8	70	N	-	-	8.0	Y	N	N
N4788	21	78.6	Area 48	-	44.3	60.6	57.4	58.1	49.5	67.3	0.0	68.3	69.0	70	N	-	-	8.3	Y	N	N
N4788	22	81.4	Area 48	-	45.2	60.5	57.6	58.2	49.6	67.6	0.0	68.5	69.1	70	N	-	-	8.5	Y	N	N
N4788	23	84.1	Area 48	-	46.3	60.3	57.7	58.3	49.6	67.8	0.0	68.7	69.3	70	N	-	-	8.8	Y	N	N
N4788	24	86.9	Area 48	-	47.6	60.2	57.9	58.4	49.7	67.9	0.0	68.8	69.4	70	N	-	-	9.0	Y	N	N
N4788	25	89.6	Area 48	-	49.5	60.1	57.9	58.5	49.7	68.1	0.0	69.0	69.6	70	N	-	-	9.1	Y	N	N
N4788	26	92.4	Area 48	-	51.4	60.0	58.0	58.5	49.7	68.3	0.0	69.2	69.7	70	N	-	-	9.1	Y	N	N
N4788	27	95.1	Area 48	-	53.1	59.8	58.1	58.5	49.7	68.5	0.0	69.3	69.9	70	N	-	-	9.3	Y	N	N
N4788	28	97.9	Area 48	-	54.5	59.7	58.2	58.5	49.7	68.7	0.0	69.5	70.0	70	N	-	-	9.2	Y	N	N
N4788	29	100.6	Area 48	-	55.3	59.6	58.2	58.5	49.8	68.9	0.0	69.7	70.2	70	N	-	-	9.2	Y	N	N
N4789	1	23.6	Area 48	-	32.0	68.4	47.6	49.3	35.4	54.6	0.0	56.4	68.6	70	N	-	-	0.2	N	N	N
N4789	2	26.4	Area 48	-	32.3	68.1	48.1	50.3	36.2	55.4	0.0	57.2	68.4	70	N	-	-	0.3	N	N	N
N4789	3	29.1	Area 48	-	32.6	67.8	48.6	51.1	37.1	56.1	0.0	57.9	68.2	70	N	-	-	0.4	N	N	N
N4789	4	31.9	Area 48	-	33.1	67.5	49.0	51.8	37.9	56.9	0.0	58.6	68.1	70	N	-	-	0.6	N	N	N
N4789	5	34.6	Area 48	-	33.7	67.2	49.6	52.5	38.9	57.7	0.0	59.4	67.9	70	N	-	-	0.7	N	N	N
N4789	6	37.4	Area 48	-	34.4	66.9	50.0	53.1	40.0	58.6	0.0	60.1	67.7	70	N	-	-	0.8	N	N	N
N4789	7	40.1	Area 48	-	35.1	66.6	50.6	53.7	40.8	59.5	0.0	61.0	67.7	70	N	-	-	1.1	Y	N	N
N4789	8	42.9	Area 48	-	35.8	66.3	51.3	54.2	41.8	60.6	0.0	62.0	67.7	70	N	-	-	1.4	Y	N	N
N4789	9	45.6	Area 48	-	36.5	66.1	51.6	54.8	42.7	61.8	0.0	63.0	67.8	70	N	-	-	1.7	Y	N	N
N4789	10	48.4	Area 48	-	37.4	65.8	51.8	55.2	43.5	62.6	0.0	63.7	67.9	70	N	-	-	2.1	Y	N	N
N4789	11	51.1	Area 48	-	38.2	65.5	52.0	55.8	44.1	63.4	0.0	64.4	68.0	70	N	-	-	2.5	Y	N	N
N4789	12	53.9	Area 48	-	39.1	65.3	52.3	56.2	44.5	64.0	0.0	65.0	68.2	70	N	-	-	2.9	Y	N	N
N4789	13	56.6	Area 48	-	39.9	65.1	52.5	56.5	45.0	64.4	0.0	65.3	68.2	70	N	-	-	3.1	Y	N	N
N4789	14	59.4	Area 48	-	40.8	64.9	52.9	56.9	45.3	64.8	0.0	65.8	68.3	70	N	-	-	3.4	Y	N	N
N4789	15	62.1	Area 48	-	41.8	64.6	53.3	57.1	45.5	65.2	0.0	66.1	68.4	70	N	-	-	3.8	Y	N	N
N4789	16	64.9	Area 48	-	42.7	64.5	53.6	57.4	45.7	65.4	0.0	66.3	68.5	70	N	-	-	4.0	Y	N	N
N4789	17	67.6	Area 48	-	43.8	64.3	53.9	57.5	46.0	65.7	0.0	66.6	68.6	70	N	-	-	4.3	Y	N	N
N4789	18	70.4	Area 48	-	44.8	64.1	54.1	57.6	46.2	66.0	0.0	66.9	68.7	70	N	-	-	4.5	Y	N	N
N4789	19	73.1	Area 48	-	46.2	63.9	54.4	57.7	46.3	66.2	0.0	67.0	68.8	70	N	-	-	4.8	Y	N	N
N4789	20	75.9	Area 48	-	47.3	63.7	54.6	57.7	46.5	66.5	0.0	67.3	68.9	70	N	-	-	5.1	Y	N	N
N4789	21	78.6	Area 48	-	48.7	63.5	54.8	57.7	46.6	66.7	0.0	67.5	69.0	70	N	-	-	5.4	Y	N	N
N4789	22	81.4	Area 48	-	49.9	63.4	55.0	57.7	46.7	67.0	0.0	67.8	69.2	70	N	-	-	5.6	Y	N	N
N4789	23	84.1	Area 48	-	51.2	63.2	55.1	57.6	46.8	67.3	0.0	68.0	69.4	70	N	-	-	5.9	Y	N	N
N4789	24	86.9	Area 48	-	52.8	63.1	55.3	57.6	46.8	67.7	0.0	68.3	69.6	70	N	-	-	6.1	Y	N	N
N4789	25	89.6	Area 48	-	54.7	63.0	55.4	57.5	46.9	67.9	0.0	68.6	69.8	70	N	-	-	6.2	Y	N	N
N4789	26	92.4	Area 48	-	56.4	62.9	55.5	57.4	46.9	68.2	0.0	68.8	70.0	70	N	-	-	6.2	Y	N	N
N4789	27	95.1	Area 48	-	57.3	62.8	55.6	57.4	46.9	68.4	0.0	68.9	70.1	70	N	-	-	6.2	Y	N	N
N4789	28	97.9	Area 48	-	57.9	62.6	55.7	57.3	47.0	68.5	0.0	69.0	70.2	70	N	-	-	6.3	Y	N	N
N4789	29	100.6	Area 48	-	58.1	62.5	55.7	57.3	47.0	68.6	0.0	69.1	70.3	70	N	-	-	6.5	Y	N	N
N4790	1	23.6	Area 48	-	32.6	68.8	46.6	49.3	34.2	54.1	0.0	55.9	69.0	70	N	-	-	0.2	N	N	N
N4790	2	26.4	Area 48	-	32.8	68.5	47.2	50.2	34.8	55.0	0.0	56.8	68.8	70	N	-	-	0.3	N	N	N
N4790	3	29.1	Area 48	-	33.1	68.2	47.7	51.0	35.7	55.8	0.0	57.5	68.5	70	N	-	-	0.3	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT													
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N4790	4	31.9	Area 48	-	33.6	67.8	48.2	51.7	36.4	56.5	0.0	58.2	68.3	70	N	-	-	0.5	N	N	N
N4790	5	34.6	Area 48	-	34.2	67.5	48.7	52.4	37.2	57.4	0.0	59.0	68.1	70	N	-	-	0.6	N	N	N
N4790	6	37.4	Area 48	-	34.9	67.2	49.2	53.0	38.1	58.3	0.0	59.9	67.9	70	N	-	-	0.7	N	N	N
N4790	7	40.1	Area 48	-	35.6	66.9	49.8	53.6	39.2	59.5	0.0	60.8	67.8	70	N	-	-	0.9	N	N	N
N4790	8	42.9	Area 48	-	36.4	66.6	50.4	54.1	39.8	60.5	0.0	61.7	67.8	70	N	-	-	1.2	Y	N	N
N4790	9	45.6	Area 48	-	37.2	66.3	50.8	54.6	40.7	61.8	0.0	62.8	67.9	70	N	-	-	1.6	Y	N	N
N4790	10	48.4	Area 48	-	38.0	66.0	51.0	55.0	41.6	62.6	0.0	63.6	68.0	70	N	-	-	2.0	Y	N	N
N4790	11	51.1	Area 48	-	38.8	65.8	51.2	55.4	42.4	63.3	0.0	64.2	68.1	70	N	-	-	2.3	Y	N	N
N4790	12	53.9	Area 48	-	39.8	65.5	51.5	55.9	43.0	63.9	0.0	64.8	68.2	70	N	-	-	2.7	Y	N	N
N4790	13	56.6	Area 48	-	40.7	65.3	51.7	56.2	43.6	64.2	0.0	65.1	68.2	70	N	-	-	2.9	Y	N	N
N4790	14	59.4	Area 48	-	41.6	65.1	51.9	56.5	43.8	64.6	0.0	65.5	68.3	70	N	-	-	3.2	Y	N	N
N4790	15	62.1	Area 48	-	42.6	64.8	52.2	56.8	44.1	65.0	0.0	65.8	68.4	70	N	-	-	3.6	Y	N	N
N4790	16	64.9	Area 48	-	43.6	64.6	52.6	57.0	44.4	65.4	0.0	66.2	68.5	70	N	-	-	3.9	Y	N	N
N4790	17	67.6	Area 48	-	44.7	64.5	52.9	57.1	44.7	65.8	0.0	66.5	68.6	70	N	-	-	4.1	Y	N	N
N4790	18	70.4	Area 48	-	45.8	64.3	53.2	57.2	45.0	66.1	0.0	66.8	68.8	70	N	-	-	4.4	Y	N	N
N4790	19	73.1	Area 48	-	47.1	64.1	53.5	57.3	45.2	66.4	0.0	67.1	68.9	70	N	-	-	4.7	Y	N	N
N4790	20	75.9	Area 48	-	48.5	63.9	53.7	57.2	45.4	66.7	0.0	67.4	69.0	70	N	-	-	5.0	Y	N	N
N4790	21	78.6	Area 48	-	49.9	63.7	53.9	57.2	45.5	67.0	0.0	67.7	69.2	70	N	-	-	5.3	Y	N	N
N4790	22	81.4	Area 48	-	51.3	63.6	54.1	57.2	45.7	67.3	0.0	67.9	69.4	70	N	-	-	5.6	Y	N	N
N4790	23	84.1	Area 48	-	53.1	63.4	54.2	57.1	45.8	67.6	0.0	68.2	69.5	70	N	-	-	5.7	Y	N	N
N4790	24	86.9	Area 48	-	54.9	63.3	54.4	57.1	45.8	67.9	0.0	68.5	69.8	70	N	-	-	5.9	Y	N	N
N4790	25	89.6	Area 48	-	56.7	63.2	54.6	57.1	45.9	68.2	0.0	68.7	70.0	70	N	-	-	5.9	Y	N	N
N4790	26	92.4	Area 48	-	58.1	63.1	54.6	57.0	46.0	68.4	0.0	68.9	70.2	70	N	-	-	5.9	Y	N	N
N4790	27	95.1	Area 48	-	58.9	62.9	54.8	56.9	46.0	68.5	0.0	69.0	70.3	70	N	-	-	5.9	Y	N	N
N4790	28	97.9	Area 48	-	59.2	62.8	54.8	56.8	46.0	68.7	0.0	69.1	70.4	70	N	-	-	6.0	Y	N	N
N4790	29	100.6	Area 48	-	59.3	62.7	54.9	56.8	46.1	68.7	0.0	69.2	70.4	70	N	-	-	6.1	Y	N	N
N4791	1	28.6	Area 48	-	16.5	63.1	52.3	57.3	40.8	57.1	0.0	60.9	65.1	70	N	-	-	2.0	Y	N	N
N4791	2	31.4	Area 48	-	16.5	62.9	52.7	57.5	41.6	57.5	0.0	61.2	65.2	70	N	-	-	2.3	Y	N	N
N4791	3	34.1	Area 48	-	16.5	62.7	53.0	57.6	42.5	58.0	0.0	61.6	65.2	70	N	-	-	2.5	Y	N	N
N4791	4	36.9	Area 48	-	16.5	62.5	53.3	57.7	43.6	58.5	0.0	61.9	65.2	70	N	-	-	2.7	Y	N	N
N4791	5	39.6	Area 48	-	16.5	62.3	53.7	57.7	44.5	59.1	0.0	62.2	65.3	70	N	-	-	3.0	Y	N	N
N4791	6	42.4	Area 48	-	16.5	62.2	54.2	57.7	45.2	59.6	0.0	62.6	65.4	70	N	-	-	3.2	Y	N	N
N4791	7	45.1	Area 48	-	16.5	62.0	54.8	57.7	46.0	60.1	0.0	62.9	65.5	70	N	-	-	3.5	Y	N	N
N4791	8	47.9	Area 48	-	16.5	61.9	55.3	57.7	46.7	60.6	0.0	63.3	65.6	70	N	-	-	3.7	Y	N	N
N4791	9	50.6	Area 48	-	16.5	61.7	55.5	57.7	47.2	61.2	0.0	63.7	65.8	70	N	-	-	4.1	Y	N	N
N4791	10	53.4	Area 48	-	16.5	61.6	55.6	57.7	47.7	61.8	0.0	64.0	66.0	70	N	-	-	4.4	Y	N	N
N4791	11	56.1	Area 48	-	16.5	61.4	55.9	57.7	48.0	62.5	0.0	64.5	66.2	70	N	-	-	4.8	Y	N	N
N4791	12	58.9	Area 48	-	16.5	61.3	56.3	57.7	48.4	63.1	0.0	65.0	66.5	70	N	-	-	5.2	Y	N	N
N4791	13	61.6	Area 48	-	16.5	61.2	56.7	57.7	48.6	63.9	0.0	65.5	66.9	70	N	-	-	5.7	Y	N	N
N4791	14	64.4	Area 48	-	16.5	61.1	57.2	57.7	48.8	64.6	0.0	66.1	67.3	70	N	-	-	6.2	Y	N	N
N4791	15	67.1	Area 48	-	16.5	61.0	57.5	57.8	49.0	65.1	0.0	66.6	67.6	70	N	-	-	6.6	Y	N	N
N4791	16	69.9	Area 48	-	16.5	60.9	57.9	58.0	49.1	65.7	0.0	67.0	68.0	70	N	-	-	7.1	Y	N	N
N4791	17	72.6	Area 48	-	16.5	60.9	58.2	58.2	49.2	66.2	0.0	67.5	68.3	70	N	-	-	7.4	Y	N	N
N4791	18	75.4	Area 48	-	16.5	60.8	58.3	58.3	49.3	66.6	0.0	67.8	68.6	70	N	-	-	7.8	Y	N	N
N4791	19	78.1	Area 48	-	16.5	60.8	58.6	58.4	49.4	67.0	0.0	68.1	68.9	70	N	-	-	8.1	Y	N	N
N4791	20	80.9	Area 48	-	16.6	60.8	58.8	58.4	49.4	67.3	0.0	68.4	69.1	70	N	-	-	8.3	Y	N	N
N4791	21	83.6	Area 48	-	17.8	60.8	59.0	58.5	49.5	67.7	0.0	68.7	69.4	70	N	-	-	8.6	Y	N	N
N4791	22	86.4	Area 48	-	19.0	61.0	59.0	58.5	49.6	68.0	0.0	68.9	69.6	70	N	-	-	8.6	Y	N	N
N4791	23	89.1	Area 48	-	20.3	60.9	59.2	58.6	49.6	68.2	0.0	69.2	69.8	70	N	-	-	8.9	Y	N	N
N4791	24	91.9	Area 48	-	21.9	60.9	59.3	58.6	49.7	68.5	0.0	69.4	70.0	70	N	-	-	9.1	Y	N	N
N4791	25	94.6	Area 48	-	23.2	61.0	59.4	58.7	49.7	68.7	0.0	69.6	70.1	70	N	-	-	9.1	Y	N	N
N4791	26	97.4	Area 48	-	24.5	61.0	59.4	58.7	49.8	68.8	0.0	69.7	70.3	70	N	-	-	9.3	Y	N	N
N4791	27	100.1	Area 48	-	25.9	61.1	59.6	58.7	49.8	69.0	0.0	69.8	70.4	70	N	-	-	9.3	Y	N	N
N4791	28	102.9	Area 48	-	27.4	61.2	59.7	58.8	49.9	69.2	0.0	70.0	70.5	70	Y	-	-	9.3	Y	N	Y
N4791	29	105.6	Area 48	-	29.1	61.3	59.7	58.8	49.9	69.3	0.0	70.1	70.7	70	Y	-	-	9.4	Y	N	Y
N4791	30	108.4	Area 48	-	30.9	61.3	59.8	58.8	50.0	69.4	0.0	70.2	70.8	70	Y	-	-	9.5	Y	N	Y
N4791	31	111.1	Area 48	-	32.8	61.4	60.0	58.8	50.0	69.5	0.0	70.3	70.9	70	Y	-	-	9.5	Y	N	Y
N4791	32	113.9	Area 48	-	35.0	61.5	60.4	58.8	50.1	69.6	0.0	70.4	70.9	70	Y	-	-	9.4	Y	N	Y
N4791	33	116.6	Area 48	-	37.7	61.8	60.7	58.8	50.2	69.6	0.0	70.5	71.0	70	Y	-	-	9.2	Y	Y	Y
N4791	34	119.4	Area 48	-	41.4	62.0	61.0	58.8	50.3	69.7	0.0	70.6	71.2	70	Y	-	-	9.2	Y	Y	Y
N4791	35	122.1	Area 48	-	44.6	62.6	61.3	58.8	50.4	69.7	0.0	70.6	71.3	70	Y	-	-	8.6	Y	Y	Y
N4791	36	124.9	Area 48	-	45.9	63.1	61.8	58.8	50.5	69.7	0.0	70.7	71.4	70	Y	-	-	8.2	Y	Y	Y
N4791	37	127.6	Area 48	-	46.3	63.8	62.4	58.8	50.7	69.8	0.0	70.8	71.6	70	Y	-	-	7.7	Y	Y	Y
N4791	38	130.4	Area 48	-	46.4	64.6	63.0	58.8	51.0	69.8	0.0	71.0	71.9	70	Y	-	-	7.2	Y	Y	Y
N4791	39	133.1	Area 48	-	46.4	65.1	63.7	58.8	51.3	69.9	0.0	71.1	72.1	70	Y	-	-	6.9	Y	Y	Y
N4792	1	28.6	Area 48	-	0.0	63.3	52.6	57.4	41.0	57.3	0.0	61.1	65.3	70	N	-	-	2.0	Y	N	N
N4792	2	31.4	Area 48	-	0.0	63.2	53.0	57.6	41.9	57.8	0.0	61.4	65.4	70	N	-	-	2.2	Y	N	N
N4792	3	34.1	Area 48	-	0.0	63.1	53.3	57.6	42.8	58.3	0.0	61.7	65.4	70	N	-	-	2.3	Y	N	N
N4792	4	36.9	Area 48	-	0.0	62.9	53.7	57.7	43.8	58.8	0.0	62.0	65.5	70	N	-	-	2.6	Y	N	N
N4792	5	39.6	Area 48	-	0.0	62.7	54.1	57.7	44.9	59.3	0.0	62.4	65.5	70	N	-	-	2.8	Y	N	N
N4792	6	42.4	Area 48	-	0.0	62.5	54.5	57.8	45.6	59.8	0.0	62.7	65.6	70	N	-	-	3.1	Y	N	N
N4792	7	45.1	Area 48	-	0.0	62.4	55.1	57.8	46.3	60.3	0.0	63.1	65.8	70	N	-	-	3.4	Y	N	N
N4792	8	47.9	Area 48	-	0.0	62.2	55.7	57.7	47.1	60.8	0.0	63.4	65.9	70	N	-	-	3.7	Y	N	N
N4792	9	50.6	Area 48	-	0.0	62.1	55.9	57.7	47.7	61.4	0.0	63.8	66.1	70	N	-	-	4.0	Y	N	N
N4792	10	53.4	Area 48	-	0.0	62.0	56.0	57.7	48.2	62.0	0.0	64.2	66.3	70	N	-	-	4.3	Y	N	N
N4792	11	56.1	Area 48	-	0.0	62.0	56.3	57.7	48.6	62.6	0.0	64.7	66.5	70	N	-	-	4.5	Y	N	N
N4792	12	58.9	Area 48	-	0.0	61.9	56.7	57.7	48.9	63.3	0.0	65.1	66.8	70	N	-	-	4.9	Y	N	N
N4792	13	61.6	Area 48	-	0.0	62.0	57.1	57.7	49.2	64.0	0.0	65.7	67.2	70	N	-	-	5.2	Y	N	N
N4792	14	64.4	Area 48	-	0.0	62.0	57.6	57.7	49.4	64.6	0.0	66.2	67.6	70	N	-	-	5.6	Y	N	N
N4792	15	67.1	Area 48	-	0.0	62.0	57.9	57.9	49.6	65.3	0.0	66.8	68.0	70	N	-	-	6.0	Y	N	N
N4792	16	69.9	Area 48	-	0.0	62.2	58.3	58.1	49.7	65.8	0.0	67.1	68.4	70	N	-	-	6.2	Y	N	N
N4792	17	72.6	Area 48	-	0.0	62.3	58.6	58.2	49.7	66.3	0.0	67.6	68.7	70	N	-	-	6.4	Y	N	N
N4792	18	75.4	Area 48	-	0.0	62.5	58.8	58.4	49.8	66.8	0.0	68.0	69.1	70	N	-	-	6.6	Y	N	N
N4792	19	78.1	Area 48	-	0.0	62.5	59.0	58.5	49.9	67.2	0.0	68.3	69.3	70	N	-	-	6.8	Y	N	N
N4792	20	80.9	Area 48	-	0.0	62.5	59.2	58.5	50.0	67.6	0.0	68.6	69.6	70	N	-	-	7.1	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT									Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]												
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)												
N4792	21	83.6	Area 48	-	0.0	62.5	59.4	58.6	50.1	67.9	0.0	68.9	69.8	70	N	-	-	7.3	Y	N	N
N4792	22	86.4	Area 48	-	0.0	62.5	59.5	58.6	50.1	68.2	0.0	69.2	70.0	70	N	-	-	7.5	Y	N	N
N4792	23	89.1	Area 48	-	0.0	62.5	59.6	58.7	50.2	68.5	0.0	69.4	70.2	70	N	-	-	7.7	Y	N	N
N4792	24	91.9	Area 48	-	0.0	62.5	59.7	58.7	50.2	68.7	0.0	69.7	70.4	70	N	-	-	7.9	Y	N	N
N4792	25	94.6	Area 48	-	0.0	62.4	59.8	58.8	50.3	69.0	0.0	69.9	70.6	70	Y	-	-	8.2	Y	N	Y
N4792	26	97.4	Area 48	-	0.0	62.4	59.8	58.8	50.3	69.1	0.0	70.0	70.7	70	Y	-	-	8.3	Y	N	Y
N4792	27	100.1	Area 48	-	0.0	62.4	60.0	58.9	50.3	69.3	0.0	70.1	70.8	70	Y	-	-	8.4	Y	N	Y
N4792	28	102.9	Area 48	-	0.0	62.3	60.1	58.9	50.4	69.4	0.0	70.3	70.9	70	Y	-	-	8.6	Y	N	Y
N4792	29	105.6	Area 48	-	0.0	62.3	60.1	58.9	50.4	69.5	0.0	70.4	71.0	70	Y	-	-	8.7	Y	N	Y
N4792	30	108.4	Area 48	-	0.0	62.3	60.2	58.9	50.4	69.7	0.0	70.5	71.1	70	Y	-	-	8.8	Y	Y	Y
N4792	31	111.1	Area 48	-	0.0	62.3	60.2	58.9	50.5	69.7	0.0	70.5	71.2	70	Y	-	-	8.9	Y	Y	Y
N4792	32	113.9	Area 48	-	0.0	62.3	60.5	58.9	50.6	69.8	0.0	70.6	71.2	70	Y	-	-	8.9	Y	Y	Y
N4792	33	116.6	Area 48	-	0.0	62.3	60.7	58.9	50.7	69.8	0.0	70.7	71.3	70	Y	-	-	9.0	Y	Y	Y
N4792	34	119.4	Area 48	-	0.0	62.4	60.9	59.0	50.8	69.9	0.0	70.7	71.3	70	Y	-	-	8.9	Y	Y	Y
N4792	35	122.1	Area 48	-	0.0	62.5	61.0	59.0	50.9	69.9	0.0	70.8	71.4	70	Y	-	-	8.9	Y	Y	Y
N4792	36	124.9	Area 48	-	0.0	62.7	61.2	59.0	51.0	70.0	0.0	70.8	71.5	70	Y	-	-	8.8	Y	Y	Y
N4792	37	127.6	Area 48	-	0.0	63.1	61.6	58.9	51.2	70.0	0.0	70.9	71.6	70	Y	-	-	8.5	Y	Y	Y
N4792	38	130.4	Area 48	-	0.0	63.4	62.1	58.9	51.4	70.1	0.0	71.0	71.7	70	Y	-	-	8.3	Y	Y	Y
N4792	39	133.1	Area 48	-	0.0	63.7	62.6	58.9	51.6	70.1	0.0	71.1	71.8	70	Y	-	-	8.1	Y	Y	Y
N4793	1	28.6	Area 48	-	0.0	63.2	52.8	57.4	41.5	57.3	0.0	61.1	65.3	70	N	-	-	2.1	Y	N	N
N4793	2	31.4	Area 48	-	0.0	63.1	53.2	57.6	42.4	57.8	0.0	61.5	65.4	70	N	-	-	2.3	Y	N	N
N4793	3	34.1	Area 48	-	0.0	63.1	53.5	57.7	43.3	58.3	0.0	61.8	65.5	70	N	-	-	2.4	Y	N	N
N4793	4	36.9	Area 48	-	0.0	62.9	53.9	57.8	44.3	58.8	0.0	62.1	65.5	70	N	-	-	2.6	Y	N	N
N4793	5	39.6	Area 48	-	0.0	62.8	54.3	57.8	45.4	59.3	0.0	62.4	65.6	70	N	-	-	2.8	Y	N	N
N4793	6	42.4	Area 48	-	0.0	62.6	54.7	57.8	46.4	59.8	0.0	62.8	65.7	70	N	-	-	3.1	Y	N	N
N4793	7	45.1	Area 48	-	0.0	62.5	55.3	57.8	47.0	60.3	0.0	63.1	65.8	70	N	-	-	3.3	Y	N	N
N4793	8	47.9	Area 48	-	0.0	62.3	55.8	57.8	47.8	60.8	0.0	63.5	66.0	70	N	-	-	3.7	Y	N	N
N4793	9	50.6	Area 48	-	0.0	62.2	56.0	57.8	48.5	61.3	0.0	63.8	66.1	70	N	-	-	3.9	Y	N	N
N4793	10	53.4	Area 48	-	0.0	62.1	56.1	57.8	49.1	61.9	0.0	64.2	66.3	70	N	-	-	4.2	Y	N	N
N4793	11	56.1	Area 48	-	0.0	62.1	56.5	57.8	49.5	62.6	0.0	64.7	66.6	70	N	-	-	4.5	Y	N	N
N4793	12	58.9	Area 48	-	0.0	62.0	56.9	57.7	49.9	63.2	0.0	65.1	66.9	70	N	-	-	4.9	Y	N	N
N4793	13	61.6	Area 48	-	0.0	62.1	57.3	57.8	50.1	63.9	0.0	65.7	67.3	70	N	-	-	5.2	Y	N	N
N4793	14	64.4	Area 48	-	0.0	62.2	57.7	57.8	50.3	64.6	0.0	66.2	67.7	70	N	-	-	5.5	Y	N	N
N4793	15	67.1	Area 48	-	0.0	62.3	58.2	57.9	50.4	65.2	0.0	66.7	68.1	70	N	-	-	5.8	Y	N	N
N4793	16	69.9	Area 48	-	0.0	62.5	58.4	58.1	50.5	65.7	0.0	67.2	68.4	70	N	-	-	5.9	Y	N	N
N4793	17	72.6	Area 48	-	0.0	62.8	58.7	58.3	50.6	66.2	0.0	67.6	68.8	70	N	-	-	6.0	Y	N	N
N4793	18	75.4	Area 48	-	0.0	62.9	59.0	58.5	50.6	66.7	0.0	68.0	69.1	70	N	-	-	6.2	Y	N	N
N4793	19	78.1	Area 48	-	0.0	63.0	59.2	58.6	50.7	67.2	0.0	68.4	69.5	70	N	-	-	6.5	Y	N	N
N4793	20	80.9	Area 48	-	0.0	63.1	59.4	58.6	50.8	67.6	0.0	68.7	69.7	70	N	-	-	6.6	Y	N	N
N4793	21	83.6	Area 48	-	0.0	63.1	59.5	58.7	50.8	67.9	0.0	69.0	70.0	70	N	-	-	6.9	Y	N	N
N4793	22	86.4	Area 48	-	0.0	63.1	59.6	58.7	50.8	68.2	0.0	69.2	70.2	70	N	-	-	7.1	Y	N	N
N4793	23	89.1	Area 48	-	0.0	63.0	59.8	58.8	50.9	68.5	0.0	69.5	70.4	70	N	-	-	7.4	Y	N	N
N4793	24	91.9	Area 48	-	0.0	63.0	59.9	58.8	50.9	68.7	0.0	69.7	70.5	70	Y	-	-	7.5	Y	N	Y
N4793	25	94.6	Area 48	-	0.0	63.0	60.0	58.9	50.9	69.0	0.0	69.9	70.7	70	Y	-	-	7.7	Y	N	Y
N4793	26	97.4	Area 48	-	0.0	63.0	60.1	58.9	51.0	69.1	0.0	70.0	70.8	70	Y	-	-	7.8	Y	N	Y
N4793	27	100.1	Area 48	-	0.0	63.0	60.2	59.0	51.0	69.3	0.0	70.2	71.0	70	Y	-	-	8.0	Y	N	Y
N4793	28	102.9	Area 48	-	0.0	62.9	60.1	59.0	51.0	69.4	0.0	70.3	71.0	70	Y	-	-	8.1	Y	N	Y
N4793	29	105.6	Area 48	-	0.0	62.9	60.3	59.0	51.1	69.5	0.0	70.4	71.1	70	Y	-	-	8.2	Y	N	Y
N4793	30	108.4	Area 48	-	0.0	62.9	60.4	59.0	51.1	69.6	0.0	70.4	71.1	70	Y	-	-	8.2	Y	N	Y
N4793	31	111.1	Area 48	-	0.0	62.9	60.4	59.0	51.2	69.6	0.0	70.5	71.2	70	Y	-	-	8.3	Y	Y	Y
N4793	32	113.9	Area 48	-	0.0	62.8	60.6	59.0	51.2	69.7	0.0	70.6	71.2	70	Y	-	-	8.4	Y	Y	Y
N4793	33	116.6	Area 48	-	0.0	62.9	60.8	59.0	51.3	69.8	0.0	70.6	71.3	70	Y	-	-	8.4	Y	Y	Y
N4793	34	119.4	Area 48	-	0.0	62.9	60.9	59.0	51.4	69.8	0.0	70.7	71.3	70	Y	-	-	8.4	Y	Y	Y
N4793	35	122.1	Area 48	-	0.0	63.0	61.0	59.0	51.5	69.8	0.0	70.7	71.4	70	Y	-	-	8.4	Y	Y	Y
N4793	36	124.9	Area 48	-	0.0	63.0	61.1	59.0	51.6	69.9	0.0	70.8	71.4	70	Y	-	-	8.4	Y	Y	Y
N4793	37	127.6	Area 48	-	0.0	63.2	61.4	59.0	51.7	69.9	0.0	70.8	71.5	70	Y	-	-	8.3	Y	Y	Y
N4793	38	130.4	Area 48	-	0.0	63.5	61.8	59.0	51.9	70.0	0.0	70.9	71.6	70	Y	-	-	8.1	Y	Y	Y
N4793	39	133.1	Area 48	-	0.0	63.7	62.3	59.0	52.1	70.0	0.0	71.0	71.8	70	Y	-	-	8.1	Y	Y	Y
N4794	1	28.6	Area 48	-	0.0	62.7	53.1	57.4	41.7	57.4	0.0	61.2	65.0	70	N	-	-	2.3	Y	N	N
N4794	2	31.4	Area 48	-	0.0	62.8	53.4	57.6	42.6	57.8	0.0	61.5	65.2	70	N	-	-	2.4	Y	N	N
N4794	3	34.1	Area 48	-	0.0	62.8	53.8	57.7	43.5	58.2	0.0	61.8	65.4	70	N	-	-	2.6	Y	N	N
N4794	4	36.9	Area 48	-	0.0	62.8	54.1	57.7	44.5	58.7	0.0	62.1	65.5	70	N	-	-	2.7	Y	N	N
N4794	5	39.6	Area 48	-	0.0	62.7	54.5	57.8	45.6	59.2	0.0	62.4	65.6	70	N	-	-	2.9	Y	N	N
N4794	6	42.4	Area 48	-	0.0	62.6	55.0	57.8	46.5	59.7	0.0	62.8	65.7	70	N	-	-	3.1	Y	N	N
N4794	7	45.1	Area 48	-	0.0	62.4	55.6	57.8	47.3	60.2	0.0	63.1	65.8	70	N	-	-	3.4	Y	N	N
N4794	8	47.9	Area 48	-	0.0	62.3	56.1	57.8	48.1	60.6	0.0	63.5	65.9	70	N	-	-	3.6	Y	N	N
N4794	9	50.6	Area 48	-	0.0	62.2	56.3	57.8	48.9	61.2	0.0	63.8	66.1	70	N	-	-	3.9	Y	N	N
N4794	10	53.4	Area 48	-	0.0	62.1	56.5	57.8	49.6	61.7	0.0	64.2	66.3	70	N	-	-	4.2	Y	N	N
N4794	11	56.1	Area 48	-	0.0	62.1	56.8	57.7	50.0	62.3	0.0	64.6	66.5	70	N	-	-	4.4	Y	N	N
N4794	12	58.9	Area 48	-	0.0	62.1	57.1	57.7	50.4	63.0	0.0	65.0	66.8	70	N	-	-	4.7	Y	N	N
N4794	13	61.6	Area 48	-	0.0	62.1	57.6	57.7	50.7	63.6	0.0	65.6	67.2	70	N	-	-	5.1	Y	N	N
N4794	14	64.4	Area 48	-	0.0	62.4	58.0	57.8	50.9	64.3	0.0	66.0	67.6	70	N	-	-	5.2	Y	N	N
N4794	15	67.1	Area 48	-	0.0	62.5	58.4	57.9	51.0	64.9	0.0	66.5	68.0	70	N	-	-	5.5	Y	N	N
N4794	16	69.9	Area 48	-	0.0	62.7	58.7	58.1	51.1	65.5	0.0	67.0	68.4	70	N	-	-	5.7	Y	N	N
N4794	17	72.6	Area 48	-	0.0	63.0	59.0	58.3	51.2	65.8	0.0	67.3	68.7	70	N	-	-	5.7	Y	N	N
N4794	18	75.4	Area 48	-	0.0	63.4	59.2	58.5	51.2	66.2	0.0	67.7	69.1	70	N	-	-	5.7	Y	N	N
N4794	19	78.1	Area 48	-	0.0	63.6	59.5	58.6	51.2	66.7	0.0	68.0	69.4	70	N	-	-	5.8	Y	N	N
N4794	20	80.9	Area 48	-	0.0	63.8	59.7	58.6	51.3	67.0	0.0	68.3	69.6	70	N	-	-	5.8	Y	N	N
N4794	21	83.6	Area 48	-	0.0	63.9	59.8	58.6	51.4	67.3	0.0	68.6	69.8	70	N	-	-	5.9	Y	N	N
N4794	22	86.4	Area 48	-	0.0	63.9	59.9	58.6	51.4	67.6	0.0	68.8	70.0	70	N	-	-	6.1	Y	N	N
N4794	23	89.1	Area 48	-	0.0	64.0	60.1	58.6	51.4	67.8	0.0	69.0	70.2	70	N	-	-	6.2	Y	N	N
N4794	24	91.9	Area 48	-	0.0	64.0	60.2	58.6	51.5	68.1	0.0	69.2	70.4	70	N	-	-	6.4	Y	N	N
N4794	25	94.6	Area 48	-	0.0	64.0	60.3	58.6	51.5	68.3	0.0	69.4	70.5	70	Y	-	-	6.5	Y	N	Y
N4794	26	97.4	Area 48	-	0.0	64.0	60.4	58.6	51.5	68.5	0.0	69.6	70.6	70	Y	-	-	6.6	Y	N	Y
N4794	27	100.1	Area 48	-	0.0	63.9	60.5	58.6	51.5	68.7	0.0	69.7	70.7	70	Y	-	-	6.8	Y	N	Y

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT													
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N4794	28	102.9	Area 48	-	0.0	63.9	60.5	58.6	51.6	68.8	0.0	69.8	70.8	70	Y	-	-	6.9	Y	N	Y
N4794	29	105.6	Area 48	-	0.0	63.9	60.6	58.6	51.6	68.9	0.0	69.9	70.9	70	Y	-	-	7.0	Y	N	Y
N4794	30	108.4	Area 48	-	0.0	63.8	60.6	58.7	51.6	69.0	0.0	70.0	71.0	70	Y	-	-	7.2	Y	N	Y
N4794	31	111.1	Area 48	-	0.0	63.8	60.7	58.7	51.6	69.1	0.0	70.1	71.0	70	Y	-	-	7.2	Y	N	Y
N4794	32	113.9	Area 48	-	0.0	63.7	60.7	58.6	51.7	69.2	0.0	70.2	71.0	70	Y	-	-	7.3	Y	N	Y
N4794	33	116.6	Area 48	-	0.0	63.8	60.8	58.6	51.8	69.3	0.0	70.2	71.1	70	Y	-	-	7.3	Y	N	Y
N4794	34	119.4	Area 48	-	0.0	63.7	61.0	58.6	51.8	69.4	0.0	70.3	71.2	70	Y	-	-	7.5	Y	N	Y
N4794	35	122.1	Area 48	-	0.0	63.7	61.1	58.7	52.0	69.4	0.0	70.4	71.2	70	Y	-	-	7.5	Y	N	Y
N4794	36	124.9	Area 48	-	0.0	63.7	61.2	58.6	52.1	69.5	0.0	70.4	71.3	70	Y	-	-	7.6	Y	N	Y
N4794	37	127.6	Area 48	-	0.0	63.7	61.3	58.6	52.2	69.5	0.0	70.5	71.3	70	Y	-	-	7.6	Y	Y	Y
N4794	38	130.4	Area 48	-	0.0	63.8	61.5	58.6	52.4	69.6	0.0	70.5	71.4	70	Y	-	-	7.6	Y	Y	Y
N4794	39	133.1	Area 48	-	0.0	63.9	61.8	58.7	52.5	69.6	0.0	70.6	71.5	70	Y	-	-	7.6	Y	Y	Y
N4795	1	28.6	Area 48	-	0.0	62.7	53.3	57.4	41.6	57.3	0.0	61.2	65.0	70	N	-	-	2.3	Y	N	N
N4795	2	31.4	Area 48	-	0.0	62.8	53.6	57.5	42.5	57.7	0.0	61.5	65.2	70	N	-	-	2.4	Y	N	N
N4795	3	34.1	Area 48	-	0.0	63.0	53.9	57.7	43.5	58.2	0.0	61.8	65.4	70	N	-	-	2.4	Y	N	N
N4795	4	36.9	Area 48	-	0.0	62.9	54.3	57.8	44.4	58.6	0.0	62.1	65.5	70	N	-	-	2.6	Y	N	N
N4795	5	39.6	Area 48	-	0.0	62.8	54.7	57.8	45.5	59.1	0.0	62.4	65.6	70	N	-	-	2.8	Y	N	N
N4795	6	42.4	Area 48	-	0.0	62.7	55.1	57.8	46.4	59.6	0.0	62.7	65.7	70	N	-	-	3.0	Y	N	N
N4795	7	45.1	Area 48	-	0.0	62.5	55.6	57.8	47.2	60.1	0.0	63.1	65.8	70	N	-	-	3.3	Y	N	N
N4795	8	47.9	Area 48	-	0.0	62.4	56.2	57.8	48.0	60.5	0.0	63.4	66.0	70	N	-	-	3.6	Y	N	N
N4795	9	50.6	Area 48	-	0.0	62.3	56.3	57.8	48.8	60.9	0.0	63.7	66.1	70	N	-	-	3.8	Y	N	N
N4795	10	53.4	Area 48	-	0.0	62.3	56.5	57.7	49.4	61.4	0.0	64.0	66.2	70	N	-	-	3.9	Y	N	N
N4795	11	56.1	Area 48	-	0.0	62.2	56.8	57.7	49.9	62.0	0.0	64.4	66.5	70	N	-	-	4.3	Y	N	N
N4795	12	58.9	Area 48	-	0.0	62.2	57.1	57.7	50.3	62.6	0.0	64.8	66.7	70	N	-	-	4.5	Y	N	N
N4795	13	61.6	Area 48	-	0.0	62.3	57.5	57.7	50.6	63.2	0.0	65.2	67.0	70	N	-	-	4.7	Y	N	N
N4795	14	64.4	Area 48	-	0.0	62.4	58.0	57.7	50.8	63.8	0.0	65.7	67.4	70	N	-	-	5.0	Y	N	N
N4795	15	67.1	Area 48	-	0.0	62.7	58.4	57.7	51.0	64.3	0.0	66.1	67.8	70	N	-	-	5.1	Y	N	N
N4795	16	69.9	Area 48	-	0.0	62.8	58.7	57.8	51.1	64.8	0.0	66.5	68.0	70	N	-	-	5.2	Y	N	N
N4795	17	72.6	Area 48	-	0.0	63.2	59.0	58.0	51.1	65.2	0.0	66.8	68.4	70	N	-	-	5.2	Y	N	N
N4795	18	75.4	Area 48	-	0.0	63.5	59.2	58.1	51.2	65.6	0.0	67.2	68.7	70	N	-	-	5.2	Y	N	N
N4795	19	78.1	Area 48	-	0.0	63.8	59.4	58.2	51.2	66.0	0.0	67.5	69.1	70	N	-	-	5.3	Y	N	N
N4795	20	80.9	Area 48	-	0.0	64.0	59.6	58.2	51.3	66.4	0.0	67.8	69.3	70	N	-	-	5.3	Y	N	N
N4795	21	83.6	Area 48	-	0.0	64.1	59.8	58.2	51.3	66.7	0.0	68.0	69.5	70	N	-	-	5.4	Y	N	N
N4795	22	86.4	Area 48	-	0.0	64.2	59.9	58.1	51.3	67.0	0.0	68.3	69.7	70	N	-	-	5.5	Y	N	N
N4795	23	89.1	Area 48	-	0.0	64.2	60.0	58.2	51.4	67.3	0.0	68.5	69.9	70	N	-	-	5.7	Y	N	N
N4795	24	91.9	Area 48	-	0.0	64.3	60.1	58.2	51.4	67.6	0.0	68.8	70.1	70	N	-	-	5.8	Y	N	N
N4795	25	94.6	Area 48	-	0.0	64.3	60.2	58.2	51.4	67.8	0.0	69.0	70.3	70	N	-	-	6.0	Y	N	N
N4795	26	97.4	Area 48	-	0.0	64.3	60.3	58.2	51.4	68.1	0.0	69.2	70.4	70	N	-	-	6.1	Y	N	N
N4795	27	100.1	Area 48	-	0.0	64.2	60.3	58.1	51.4	68.2	0.0	69.3	70.5	70	Y	-	-	6.3	Y	N	Y
N4795	28	102.9	Area 48	-	0.0	64.2	60.4	58.1	51.4	68.4	0.0	69.5	70.6	70	Y	-	-	6.4	Y	N	Y
N4795	29	105.6	Area 48	-	0.0	64.2	60.5	58.2	51.4	68.6	0.0	69.6	70.7	70	Y	-	-	6.5	Y	N	Y
N4795	30	108.4	Area 48	-	0.0	64.1	60.6	58.2	51.5	68.7	0.0	69.7	70.8	70	Y	-	-	6.7	Y	N	Y
N4795	31	111.1	Area 48	-	0.0	64.1	60.6	58.2	51.5	68.8	0.0	69.8	70.8	70	Y	-	-	6.7	Y	N	Y
N4795	32	113.9	Area 48	-	0.0	64.1	60.7	58.2	51.6	68.9	0.0	69.8	70.9	70	Y	-	-	6.8	Y	N	Y
N4795	33	116.6	Area 48	-	0.0	64.0	60.8	58.2	51.7	69.0	0.0	69.9	70.9	70	Y	-	-	6.9	Y	N	Y
N4795	34	119.4	Area 48	-	0.0	64.0	60.9	58.2	51.7	69.0	0.0	70.0	71.0	70	Y	-	-	7.0	Y	N	Y
N4795	35	122.1	Area 48	-	0.0	63.9	61.1	58.2	51.8	69.1	0.0	70.1	71.0	70	Y	-	-	7.1	Y	N	Y
N4795	36	124.9	Area 48	-	0.0	63.9	61.2	58.2	51.9	69.1	0.0	70.1	71.1	70	Y	-	-	7.2	Y	N	Y
N4795	37	127.6	Area 48	-	0.0	63.9	61.2	58.2	52.0	69.2	0.0	70.2	71.1	70	Y	-	-	7.2	Y	N	Y
N4795	38	130.4	Area 48	-	0.0	64.0	61.4	58.2	52.2	69.3	0.0	70.3	71.2	70	Y	-	-	7.2	Y	N	Y
N4795	39	133.1	Area 48	-	0.0	64.1	61.7	58.2	52.3	69.3	0.0	70.3	71.3	70	Y	-	-	7.2	Y	N	Y
N4796	1	28.6	Area 48	-	0.0	63.1	51.7	57.7	36.3	54.7	0.0	60.2	64.9	70	N	-	-	1.8	Y	N	N
N4796	2	31.4	Area 48	-	0.0	63.2	52.0	57.7	37.3	55.1	0.0	60.3	65.0	70	N	-	-	1.8	Y	N	N
N4796	3	34.1	Area 48	-	0.0	63.1	52.4	57.8	38.3	55.5	0.0	60.6	65.0	70	N	-	-	1.9	Y	N	N
N4796	4	36.9	Area 48	-	0.0	62.9	52.8	57.8	39.2	55.9	0.0	60.7	65.0	70	N	-	-	2.1	Y	N	N
N4796	5	39.6	Area 48	-	0.0	62.7	53.3	57.8	40.3	56.3	0.0	61.0	64.9	70	N	-	-	2.2	Y	N	N
N4796	6	42.4	Area 48	-	0.0	62.5	53.6	57.8	41.5	56.8	0.0	61.2	64.9	70	N	-	-	2.4	Y	N	N
N4796	7	45.1	Area 48	-	0.0	62.3	53.9	57.7	42.5	57.1	0.0	61.4	64.9	70	N	-	-	2.6	Y	N	N
N4796	8	47.9	Area 48	-	0.0	62.2	54.5	57.7	43.4	57.5	0.0	61.6	64.9	70	N	-	-	2.7	Y	N	N
N4796	9	50.6	Area 48	-	0.0	62.2	54.7	57.6	44.4	57.9	0.0	61.8	65.0	70	N	-	-	2.8	Y	N	N
N4796	10	53.4	Area 48	-	0.0	62.1	55.0	57.5	45.2	58.4	0.0	62.0	65.1	70	N	-	-	3.0	Y	N	N
N4796	11	56.1	Area 48	-	0.0	62.2	55.2	57.5	45.7	58.8	0.0	62.2	65.2	70	N	-	-	3.0	Y	N	N
N4796	12	58.9	Area 48	-	0.0	62.3	55.5	57.4	46.1	59.3	0.0	62.5	65.4	70	N	-	-	3.1	Y	N	N
N4796	13	61.6	Area 48	-	0.0	62.5	55.9	57.3	46.2	59.7	0.0	62.8	65.7	70	N	-	-	3.2	Y	N	N
N4796	14	64.4	Area 48	-	0.0	62.9	56.3	57.3	46.4	60.2	0.0	63.1	66.0	70	N	-	-	3.1	Y	N	N
N4796	15	67.1	Area 48	-	0.0	63.3	56.7	57.2	46.5	60.7	0.0	63.4	66.4	70	N	-	-	3.1	Y	N	N
N4796	16	69.9	Area 48	-	0.0	63.6	56.9	57.1	46.6	61.4	0.0	63.9	66.7	70	N	-	-	3.1	Y	N	N
N4796	17	72.6	Area 48	-	0.0	64.2	57.2	57.0	46.5	61.7	0.0	64.1	67.2	70	N	-	-	3.0	Y	N	N
N4796	18	75.4	Area 48	-	0.0	64.8	57.5	57.0	46.6	62.3	0.0	64.5	67.6	70	N	-	-	2.8	Y	N	N
N4796	19	78.1	Area 48	-	0.0	65.1	57.6	56.9	46.5	62.8	0.0	64.8	68.0	70	N	-	-	2.9	Y	N	N
N4796	20	80.9	Area 48	-	0.0	65.4	57.8	56.8	46.6	63.3	0.0	65.1	68.3	70	N	-	-	2.9	Y	N	N
N4796	21	83.6	Area 48	-	0.0	65.5	58.0	56.7	46.6	63.8	0.0	65.5	68.5	70	N	-	-	3.0	Y	N	N
N4796	22	86.4	Area 48	-	0.0	65.6	58.1	56.7	46.5	64.2	0.0	65.8	68.7	70	N	-	-	3.1	Y	N	N
N4796	23	89.1	Area 48	-	0.0	65.7	58.2	56.6	46.5	64.7	0.0	66.1	68.9	70	N	-	-	3.2	Y	N	N
N4796	24	91.9	Area 48	-	0.0	65.8	58.2	56.5	46.5	65.1	0.0	66.4	69.1	70	N	-	-	3.3	Y	N	N
N4796	25	94.6	Area 48	-	0.0	65.8	58.3	56.4	46.5	65.3	0.0	66.6	69.2	70	N	-	-	3.4	Y	N	N
N4796	26	97.4	Area 48	-	0.0	65.8	58.4	56.3	46.5	65.6	0.0	66.8	69.3	70	N	-	-	3.5	Y	N	N
N4796	27	100.1	Area 48	-	0.0	65.7	58.4	56.3	46.5	65.9	0.0	67.0	69.4	70	N	-	-	3.7	Y	N	N
N4796	28	102.9	Area 48	-	0.0	65.7	58.5	56.2	46.6	66.0	0.0	67.1	69.5	70	N	-	-	3.8	Y	N	N
N4796	29	105.6	Area 48	-	0.0	65.6	58.6	56.1	46.7	66.1	0.0	67.2	69.5	70	N	-	-	3.9	Y	N	N
N4796	30	108.4	Area 48	-	0.0	65.6	58.6	56.0	46.7	66.2	0.0	67.3	69.5	70	N	-	-	3.9	Y	N	N
N4796	31	111.1	Area 48	-	0.0	65.6	58.8	56.0	46.9	66.4	0.0	67.4	69.6	70	N	-	-	4.0	Y	N	N
N4796	32	113.9	Area 48	-	0.0	65.5	58.8	55.9	47.1	66.5	0.0	67.5	69.6	70	N	-	-	4.1	Y	N	N
N4796	33	116.6	Area 48	-	0.0	65.5	59.0	55.8	47.2	66.6	0.0	67.6	69.7	70	N	-	-	4.2	Y	N	N
N4796	34	119.4	Area 48	-	0.0	65.4	59.2	55.7	47.6	66.6	0.0	67.7	69.7	70	N	-	-	4.3	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT									Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]												
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)												
N4796	35	122.1	Area 48	-	0.0	65.4	59.6	55.6	47.8	66.7	0.0	67.8	69.8	70	N	-	-	4.4	Y	N	N
N4796	36	124.9	Area 48	-	0.0	65.3	59.9	55.6	48.1	66.7	0.0	67.9	69.8	70	N	-	-	4.5	Y	N	N
N4796	37	127.6	Area 48	-	0.0	65.3	60.2	55.5	48.5	66.8	0.0	68.0	69.8	70	N	-	-	4.5	Y	N	N
N4796	38	130.4	Area 48	-	0.0	65.3	60.6	55.4	48.8	66.8	0.0	68.1	69.9	70	N	-	-	4.6	Y	N	N
N4796	39	133.1	Area 48	-	0.0	65.2	61.1	55.4	49.0	66.9	0.0	68.2	70.0	70	N	-	-	4.8	Y	N	N
N4797	1	28.6	Area 48	-	0.0	66.1	54.7	58.8	42.0	58.3	0.0	62.4	67.7	70	N	-	-	1.6	Y	N	N
N4797	2	31.4	Area 48	-	0.0	65.9	55.1	59.0	43.0	58.7	0.0	62.7	67.6	70	N	-	-	1.7	Y	N	N
N4797	3	34.1	Area 48	-	0.0	65.6	55.4	59.1	44.0	59.2	0.0	63.0	67.5	70	N	-	-	1.9	Y	N	N
N4797	4	36.9	Area 48	-	0.0	65.3	55.8	59.1	45.0	59.6	0.0	63.3	67.4	70	N	-	-	2.1	Y	N	N
N4797	5	39.6	Area 48	-	0.0	65.0	56.3	59.1	46.1	60.1	0.0	63.6	67.4	70	N	-	-	2.4	Y	N	N
N4797	6	42.4	Area 48	-	0.0	64.8	56.7	59.1	47.1	60.6	0.0	64.0	67.4	70	N	-	-	2.6	Y	N	N
N4797	7	45.1	Area 48	-	0.0	64.6	57.2	59.1	47.8	61.0	0.0	64.3	67.4	70	N	-	-	2.8	Y	N	N
N4797	8	47.9	Area 48	-	0.0	64.4	57.6	59.1	48.5	61.5	0.0	64.6	67.5	70	N	-	-	3.1	Y	N	N
N4797	9	50.6	Area 48	-	0.0	64.3	57.7	59.0	49.4	62.0	0.0	64.8	67.6	70	N	-	-	3.3	Y	N	N
N4797	10	53.4	Area 48	-	0.0	64.2	58.0	59.0	49.9	62.5	0.0	65.2	67.7	70	N	-	-	3.5	Y	N	N
N4797	11	56.1	Area 48	-	0.0	64.1	58.3	59.0	50.4	63.0	0.0	65.5	67.9	70	N	-	-	3.8	Y	N	N
N4797	12	58.9	Area 48	-	0.0	64.2	58.7	58.9	50.8	63.6	0.0	65.9	68.2	70	N	-	-	4.0	Y	N	N
N4797	13	61.6	Area 48	-	0.0	64.3	59.2	58.9	51.0	64.2	0.0	66.4	68.5	70	N	-	-	4.2	Y	N	N
N4797	14	64.4	Area 48	-	0.0	64.6	59.5	58.9	51.2	64.7	0.0	66.8	68.8	70	N	-	-	4.2	Y	N	N
N4797	15	67.1	Area 48	-	0.0	64.8	59.9	58.9	51.3	65.2	0.0	67.2	69.1	70	N	-	-	4.3	Y	N	N
N4797	16	69.9	Area 48	-	0.0	65.0	60.2	59.0	51.4	65.7	0.0	67.6	69.5	70	N	-	-	4.5	Y	N	N
N4797	17	72.6	Area 48	-	0.0	65.5	60.4	59.1	51.4	66.0	0.0	67.8	69.8	70	N	-	-	4.3	Y	N	N
N4797	18	75.4	Area 48	-	0.0	66.0	60.7	59.2	51.5	66.5	0.0	68.2	70.3	70	N	-	-	4.3	Y	N	N
N4797	19	78.1	Area 48	-	0.0	66.3	60.8	59.2	51.5	66.9	0.0	68.5	70.6	70	Y	-	-	4.3	Y	N	Y
N4797	20	80.9	Area 48	-	0.0	66.5	61.0	59.2	51.6	67.3	0.0	68.8	70.8	70	Y	-	-	4.3	Y	N	Y
N4797	21	83.6	Area 48	-	0.0	66.6	61.2	59.2	51.6	67.6	0.0	69.1	71.0	70	Y	-	-	4.4	Y	N	Y
N4797	22	86.4	Area 48	-	0.0	66.7	61.3	59.2	51.6	67.9	0.0	69.3	71.2	70	Y	-	-	4.5	Y	N	Y
N4797	23	89.1	Area 48	-	0.0	66.8	61.4	59.1	51.6	68.3	0.0	69.6	71.4	70	Y	-	-	4.6	Y	N	Y
N4797	24	91.9	Area 48	-	0.0	66.7	61.5	59.1	51.6	68.6	0.0	69.8	71.5	70	Y	-	-	4.8	Y	N	Y
N4797	25	94.6	Area 48	-	0.0	66.8	61.6	59.1	51.6	68.9	0.0	70.0	71.7	70	Y	-	-	4.9	Y	N	Y
N4797	26	97.4	Area 48	-	0.0	66.7	61.6	59.1	51.6	69.1	0.0	70.3	71.9	70	Y	-	-	5.2	Y	N	Y
N4797	27	100.1	Area 48	-	0.0	66.7	61.7	59.1	51.7	69.3	0.0	70.4	71.9	70	Y	-	-	5.2	Y	N	Y
N4797	28	102.9	Area 48	-	0.0	66.7	61.7	59.1	51.7	69.5	0.0	70.6	72.0	70	Y	-	-	5.3	Y	Y	Y
N4797	29	105.6	Area 48	-	0.0	66.6	61.8	59.1	51.7	69.6	0.0	70.6	72.1	70	Y	-	-	5.5	Y	Y	Y
N4797	30	108.4	Area 48	-	0.0	66.5	61.8	59.1	51.7	69.7	0.0	70.8	72.2	70	Y	-	-	5.7	Y	Y	Y
N4797	31	111.1	Area 48	-	0.0	66.5	61.9	59.2	51.8	69.8	0.0	70.8	72.2	70	Y	-	-	5.7	Y	Y	Y
N4797	32	113.9	Area 48	-	0.0	66.5	62.0	59.1	51.9	69.9	0.0	70.9	72.3	70	Y	-	-	5.8	Y	Y	Y
N4797	33	116.6	Area 48	-	0.0	66.4	62.0	59.1	51.9	70.0	0.0	71.0	72.3	70	Y	-	-	5.9	Y	Y	Y
N4797	34	119.4	Area 48	-	0.0	66.3	62.2	59.1	52.1	70.0	0.0	71.0	72.3	70	Y	-	-	6.0	Y	Y	Y
N4797	35	122.1	Area 48	-	0.0	66.3	62.3	59.2	52.2	70.1	0.0	71.1	72.4	70	Y	-	-	6.1	Y	Y	Y
N4797	36	124.9	Area 48	-	0.0	66.2	62.5	59.2	52.3	70.2	0.0	71.2	72.4	70	Y	-	-	6.2	Y	Y	Y
N4797	37	127.6	Area 48	-	0.0	66.2	62.7	59.1	52.4	70.2	0.0	71.3	72.4	70	Y	-	-	6.2	Y	Y	Y
N4797	38	130.4	Area 48	-	0.0	66.1	62.9	59.1	52.6	70.3	0.0	71.3	72.5	70	Y	-	-	6.4	Y	Y	Y
N4797	39	133.1	Area 48	-	0.0	66.1	63.2	59.2	52.7	70.3	0.0	71.4	72.5	70	Y	-	-	6.4	Y	Y	Y
N4798	1	28.6	Area 48	-	32.3	63.2	53.9	57.2	41.4	57.7	0.0	61.3	65.4	70	N	-	-	2.2	Y	N	N
N4798	2	31.4	Area 48	-	32.6	62.9	54.2	57.4	42.3	58.2	0.0	61.7	65.3	70	N	-	-	2.4	Y	N	N
N4798	3	34.1	Area 48	-	33.1	62.5	54.5	57.5	43.2	58.6	0.0	62.0	65.3	70	N	-	-	2.8	Y	N	N
N4798	4	36.9	Area 48	-	33.7	62.2	55.0	57.6	44.2	59.1	0.0	62.4	65.3	70	N	-	-	3.1	Y	N	N
N4798	5	39.6	Area 48	-	34.4	61.9	55.5	57.7	45.2	59.6	0.0	62.8	65.4	70	N	-	-	3.5	Y	N	N
N4798	6	42.4	Area 48	-	35.0	61.7	55.9	57.7	46.0	60.1	0.0	63.1	65.5	70	N	-	-	3.8	Y	N	N
N4798	7	45.1	Area 48	-	35.8	61.4	56.4	57.8	46.9	60.7	0.0	63.5	65.6	70	N	-	-	4.2	Y	N	N
N4798	8	47.9	Area 48	-	36.5	61.3	56.9	57.7	47.6	61.1	0.0	63.8	65.8	70	N	-	-	4.5	Y	N	N
N4798	9	50.6	Area 48	-	37.3	61.1	57.1	57.8	48.4	61.6	0.0	64.2	65.9	70	N	-	-	4.8	Y	N	N
N4798	10	53.4	Area 48	-	38.1	61.0	57.5	57.7	49.1	62.3	0.0	64.7	66.2	70	N	-	-	5.2	Y	N	N
N4798	11	56.1	Area 48	-	38.9	60.9	58.0	57.8	49.7	62.9	0.0	65.2	66.5	70	N	-	-	5.6	Y	N	N
N4798	12	58.9	Area 48	-	39.8	60.9	58.3	57.7	50.3	63.7	0.0	65.7	66.9	70	N	-	-	6.0	Y	N	N
N4798	13	61.6	Area 48	-	40.6	60.8	58.8	57.8	50.7	64.4	0.0	66.3	67.4	70	N	-	-	6.6	Y	N	N
N4798	14	64.4	Area 48	-	41.5	60.9	59.1	58.0	51.0	65.0	0.0	66.7	67.8	70	N	-	-	6.9	Y	N	N
N4798	15	67.1	Area 48	-	42.5	61.0	59.5	58.3	51.2	65.5	0.0	67.2	68.1	70	N	-	-	7.0	Y	N	N
N4798	16	69.9	Area 48	-	43.4	61.3	59.9	58.6	51.3	66.1	0.0	67.7	68.6	70	N	-	-	7.2	Y	N	N
N4798	17	72.6	Area 48	-	44.3	61.8	60.2	58.8	51.4	66.6	0.0	68.1	69.1	70	N	-	-	7.2	Y	N	N
N4798	18	75.4	Area 48	-	45.3	61.8	60.4	59.0	51.5	67.1	0.0	68.5	69.4	70	N	-	-	7.5	Y	N	N
N4798	19	78.1	Area 48	-	46.4	62.1	60.6	59.1	51.6	67.6	0.0	69.0	69.8	70	N	-	-	7.6	Y	N	N
N4798	20	80.9	Area 48	-	47.6	62.6	60.8	59.2	51.6	68.1	0.0	69.3	70.2	70	N	-	-	7.5	Y	N	N
N4798	21	83.6	Area 48	-	48.9	63.0	61.0	59.3	51.7	68.5	0.0	69.7	70.6	70	Y	-	-	7.4	Y	N	Y
N4798	22	86.4	Area 48	-	50.6	63.3	61.2	59.3	51.8	68.8	0.0	70.0	70.9	70	Y	-	-	7.4	Y	N	Y
N4798	23	89.1	Area 48	-	52.7	63.6	61.3	59.4	51.8	69.1	0.0	70.2	71.1	70	Y	-	-	7.2	Y	N	Y
N4798	24	91.9	Area 48	-	54.9	63.7	61.4	59.4	51.8	69.5	0.0	70.5	71.4	70	Y	-	-	7.2	Y	Y	Y
N4798	25	94.6	Area 48	-	56.6	63.7	61.5	59.5	51.9	69.9	0.0	70.8	71.7	70	Y	-	-	7.2	Y	Y	Y
N4798	26	97.4	Area 48	-	57.5	63.9	61.6	59.6	51.9	70.2	0.0	71.1	72.0	70	Y	-	-	7.2	Y	Y	Y
N4798	27	100.1	Area 48	-	58.1	63.9	61.6	59.6	51.9	70.5	0.0	71.4	72.3	70	Y	-	-	7.4	Y	Y	Y
N4798	28	102.9	Area 48	-	58.4	64.0	61.7	59.6	51.9	70.8	0.0	71.6	72.5	70	Y	-	-	7.4	Y	Y	Y
N4798	29	105.6	Area 48	-	58.6	63.9	61.7	59.6	52.0	71.0	0.0	71.8	72.6	70	Y	-	-	7.6	Y	Y	Y
N4798	30	108.4	Area 48	-	58.8	63.9	61.8	59.6	52.0	71.1	0.0	71.9	72.7	70	Y	-	-	7.6	Y	Y	Y
N4798	31	111.1	Area 48	-	58.9	63.9	61.8	59.6	52.1	71.2	0.0	72.0	72.8	70	Y	-	-	7.7	Y	Y	Y
N4798	32	113.9	Area 48	-	59.1	63.9	61.8	59.7	52.1	71.3	0.0	72.0	72.8	70	Y	-	-	7.7	Y	Y	Y
N4798	33	116.6	Area 48	-	59.1	63.9	61.9	59.7	52.2	71.3	0.0	72.1	72.9	70	Y	-	-	7.8	Y	Y	Y
N4798	34	119.4	Area 48	-	59.2	63.8	61.9	59.7	52.2	71.4	0.0	72.1	72.9	70	Y	-	-	7.8	Y	Y	Y
N4798	35	122.1	Area 48	-	59.3	63.7	61.9	59.7	52.3	71.4	0.0	72.2	72.9	70	Y	-	-	7.9	Y	Y	Y
N4798	36	124.9	Area 48	-	59.3	63.6	61.9	59.7	52.4	71.4	0.0	72.2	73.0	70	Y	-	-	8.0	Y	Y	Y
N4798	37	127.6	Area 48	-	59.3	63.7	61.9	59.7	52.5	71.5	0.0	72.2	73.0	70	Y	-	-	8.0	Y	Y	Y
N4798	38	130.4	Area 48	-	59.3	63.6	61.9	59.7	52.6	71.5	0.0	72.3	73.0	70	Y	-	-	8.0	Y	Y	Y
N4798	39	133.1	Area 48	-	59.3	63.6	62.0	59.7	52.8	71.5	0.0	72.3	73.0	70	Y	-	-	8.0	Y	Y	Y
N4799	1	28.6	Area 48	-	31.5	0.0	0.0	0.0	0.0	34.2	0.0	34.2	36.0	70	N	-	-	4.5	Y	N	N
N4799	2	31.4	Area 48	-	31.8	0.0	0.0	0.0	0.0	34.8	0.0	34.8	36.5	70	N	-	-	4.7	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N4799	3	34.1	Area 48	-	32.2	0.0	0.0	0.0	0.0	35.3	0.0	35.3	37.1	70	N	-	-	4.9	Y	N	N
N4799	4	36.9	Area 48	-	32.8	0.0	0.0	0.0	0.0	36.0	0.0	36.0	37.7	70	N	-	-	4.9	Y	N	N
N4799	5	39.6	Area 48	-	33.5	0.0	0.0	0.0	0.0	36.6	0.0	36.6	38.3	70	N	-	-	4.8	Y	N	N
N4799	6	42.4	Area 48	-	34.2	0.0	0.0	0.0	0.0	37.3	0.0	37.3	39.0	70	N	-	-	4.8	Y	N	N
N4799	7	45.1	Area 48	-	34.9	0.0	0.0	0.0	0.0	38.0	0.0	38.0	39.7	70	N	-	-	4.8	Y	N	N
N4799	8	47.9	Area 48	-	35.6	0.0	0.0	0.0	0.0	38.7	0.0	38.7	40.4	70	N	-	-	4.8	Y	N	N
N4799	9	50.6	Area 48	-	36.4	0.0	0.0	0.0	0.0	39.4	0.0	39.4	41.2	70	N	-	-	4.8	Y	N	N
N4799	10	53.4	Area 48	-	37.2	0.0	0.0	0.0	0.0	40.2	0.0	40.2	41.9	70	N	-	-	4.7	Y	N	N
N4799	11	56.1	Area 48	-	38.1	0.0	0.0	0.0	0.0	41.0	0.0	41.0	42.8	70	N	-	-	4.7	Y	N	N
N4799	12	58.9	Area 48	-	38.9	0.0	0.0	0.0	0.0	41.8	0.0	41.8	43.6	70	N	-	-	4.7	Y	N	N
N4799	13	61.6	Area 48	-	39.7	0.0	0.0	0.0	0.0	42.6	0.0	42.6	44.4	70	N	-	-	4.7	Y	N	N
N4799	14	64.4	Area 48	-	40.6	0.0	0.0	0.0	0.0	43.4	0.0	43.4	45.2	70	N	-	-	4.6	Y	N	N
N4799	15	67.1	Area 48	-	41.4	0.0	0.0	0.0	0.0	44.3	0.0	44.3	46.1	70	N	-	-	4.7	Y	N	N
N4799	16	69.9	Area 48	-	42.3	0.0	0.0	0.0	0.0	45.2	0.0	45.2	47.0	70	N	-	-	4.7	Y	N	N
N4799	17	72.6	Area 48	-	43.3	0.0	0.0	0.0	0.0	46.1	0.0	46.1	48.0	70	N	-	-	4.7	Y	N	N
N4799	18	75.4	Area 48	-	44.2	0.0	0.0	0.0	0.0	47.1	0.0	47.1	48.9	70	N	-	-	4.7	Y	N	N
N4799	19	78.1	Area 48	-	45.2	0.0	0.0	0.0	0.0	48.2	0.0	48.2	50.0	70	N	-	-	4.8	Y	N	N
N4799	20	80.9	Area 48	-	46.4	0.0	0.0	0.0	0.0	49.3	0.0	49.3	51.1	70	N	-	-	4.7	Y	N	N
N4799	21	83.6	Area 48	-	47.7	0.0	0.0	0.0	0.0	50.4	0.0	50.4	52.3	70	N	-	-	4.6	Y	N	N
N4799	22	86.4	Area 48	-	49.3	0.0	0.0	0.0	0.0	51.8	0.0	51.8	53.8	70	N	-	-	4.5	Y	N	N
N4799	23	89.1	Area 48	-	51.4	0.0	0.0	0.0	0.0	53.3	0.0	53.3	55.5	70	N	-	-	4.1	Y	N	N
N4799	24	91.9	Area 48	-	53.5	0.0	0.0	0.0	0.0	55.0	0.0	55.0	57.4	70	N	-	-	3.9	Y	N	N
N4799	25	94.6	Area 48	-	55.1	0.0	0.0	0.0	0.0	57.4	0.0	57.4	59.4	70	N	-	-	4.3	Y	N	N
N4799	26	97.4	Area 48	-	55.9	0.0	0.0	0.0	0.0	59.1	0.0	59.1	60.8	70	N	-	-	4.9	Y	N	N
N4799	27	100.1	Area 48	-	56.4	0.0	0.0	0.0	0.0	60.9	0.0	60.9	62.2	70	N	-	-	5.8	Y	N	N
N4799	28	102.9	Area 48	-	56.8	0.0	0.0	0.0	0.0	61.7	0.0	61.7	62.9	70	N	-	-	6.1	Y	N	N
N4799	29	105.6	Area 48	-	57.0	0.0	0.0	0.0	0.0	62.1	0.0	62.1	63.3	70	N	-	-	6.3	Y	N	N
N4799	30	108.4	Area 48	-	57.2	0.0	0.0	0.0	0.0	62.4	0.0	62.4	63.5	70	N	-	-	6.3	Y	N	N
N4799	31	111.1	Area 48	-	57.4	0.0	0.0	0.0	0.0	62.5	0.0	62.5	63.7	70	N	-	-	6.3	Y	N	N
N4799	32	113.9	Area 48	-	57.6	0.0	0.0	0.0	0.0	62.5	0.0	62.5	63.7	70	N	-	-	6.1	Y	N	N
N4799	33	116.6	Area 48	-	57.7	0.0	0.0	0.0	0.0	62.5	0.0	62.5	63.8	70	N	-	-	6.1	Y	N	N
N4799	34	119.4	Area 48	-	57.8	0.0	0.0	0.0	0.0	62.5	0.0	62.5	63.8	70	N	-	-	6.0	Y	N	N
N4799	35	122.1	Area 48	-	57.8	0.0	0.0	0.0	0.0	62.5	0.0	62.5	63.8	70	N	-	-	6.0	Y	N	N
N4799	36	124.9	Area 48	-	57.8	0.0	0.0	0.0	0.0	62.5	0.0	62.5	63.8	70	N	-	-	6.0	Y	N	N
N4799	37	127.6	Area 48	-	57.9	0.0	0.0	0.0	0.0	62.5	0.0	62.5	63.8	70	N	-	-	5.9	Y	N	N
N4799	38	130.4	Area 48	-	57.9	0.0	0.0	0.0	0.0	62.5	0.0	62.5	63.8	70	N	-	-	5.9	Y	N	N
N4799	39	133.1	Area 48	-	57.9	0.0	0.0	0.0	0.0	62.4	0.0	62.4	63.7	70	N	-	-	5.8	Y	N	N
N4800	1	28.6	Area 48	-	25.4	58.7	52.7	55.0	40.1	56.4	0.0	59.8	62.3	70	N	-	-	3.6	Y	N	N
N4800	2	31.4	Area 48	-	25.9	58.9	53.0	55.3	41.0	56.8	0.0	60.1	62.6	70	N	-	-	3.7	Y	N	N
N4800	3	34.1	Area 48	-	26.4	58.9	53.3	55.5	41.7	57.2	0.0	60.5	62.8	70	N	-	-	3.9	Y	N	N
N4800	4	36.9	Area 48	-	26.9	58.7	53.7	55.6	42.6	57.6	0.0	60.8	62.9	70	N	-	-	4.2	Y	N	N
N4800	5	39.6	Area 48	-	27.4	58.5	54.1	55.8	43.5	58.0	0.0	61.1	63.0	70	N	-	-	4.5	Y	N	N
N4800	6	42.4	Area 48	-	27.9	58.3	54.6	55.9	44.4	58.5	0.0	61.5	63.2	70	N	-	-	4.9	Y	N	N
N4800	7	45.1	Area 48	-	28.5	58.2	55.0	56.0	45.1	59.0	0.0	61.9	63.4	70	N	-	-	5.2	Y	N	N
N4800	8	47.9	Area 48	-	29.0	58.0	55.5	56.0	46.0	59.5	0.0	62.3	63.7	70	N	-	-	5.7	Y	N	N
N4800	9	50.6	Area 48	-	29.7	57.9	56.0	56.1	46.6	60.0	0.0	62.6	63.9	70	N	-	-	6.0	Y	N	N
N4800	10	53.4	Area 48	-	30.3	57.8	56.2	56.1	47.3	60.5	0.0	63.0	64.2	70	N	-	-	6.4	Y	N	N
N4800	11	56.1	Area 48	-	30.9	57.7	56.7	56.0	48.2	61.1	0.0	63.5	64.5	70	N	-	-	6.8	Y	N	N
N4800	12	58.9	Area 48	-	31.6	57.6	57.1	56.1	48.9	61.8	0.0	64.0	64.9	70	N	-	-	7.3	Y	N	N
N4800	13	61.6	Area 48	-	32.2	57.6	57.5	56.1	49.6	62.5	0.0	64.5	65.3	70	N	-	-	7.7	Y	N	N
N4800	14	64.4	Area 48	-	32.9	57.6	58.0	56.2	50.2	63.2	0.0	65.1	65.8	70	N	-	-	8.2	Y	N	N
N4800	15	67.1	Area 48	-	33.6	57.6	58.4	56.3	50.5	63.8	0.0	65.6	66.2	70	N	-	-	8.6	Y	N	N
N4800	16	69.9	Area 48	-	34.3	57.7	58.7	56.6	50.7	64.3	0.0	66.0	66.6	70	N	-	-	8.9	Y	N	N
N4800	17	72.6	Area 48	-	35.1	57.8	59.0	56.9	50.8	64.8	0.0	66.5	67.0	70	N	-	-	9.2	Y	N	N
N4800	18	75.4	Area 48	-	35.8	58.0	59.2	57.3	50.9	65.3	0.0	66.9	67.4	70	N	-	-	9.4	Y	N	N
N4800	19	78.1	Area 48	-	36.6	58.2	59.5	57.5	51.1	65.7	0.0	67.3	67.8	70	N	-	-	9.6	Y	N	N
N4800	20	80.9	Area 48	-	37.5	58.7	59.7	57.8	51.2	66.2	0.0	67.7	68.2	70	N	-	-	9.5	Y	N	N
N4800	21	83.6	Area 48	-	38.4	59.0	59.9	57.9	51.2	66.7	0.0	68.0	68.5	70	N	-	-	9.5	Y	N	N
N4800	22	86.4	Area 48	-	39.3	59.0	60.1	58.1	51.3	67.1	0.0	68.4	68.9	70	N	-	-	9.9	Y	N	N
N4800	23	89.1	Area 48	-	40.4	59.5	60.2	58.1	51.4	67.5	0.0	68.7	69.2	70	N	-	-	9.6	Y	N	N
N4800	24	91.9	Area 48	-	41.5	60.0	60.3	58.2	51.5	67.9	0.0	69.1	69.6	70	N	-	-	9.5	Y	N	N
N4800	25	94.6	Area 48	-	42.8	60.4	60.4	58.3	51.5	68.2	0.0	69.3	69.9	70	N	-	-	9.4	Y	N	N
N4800	26	97.4	Area 48	-	44.5	60.7	60.5	58.4	51.5	68.5	0.0	69.6	70.1	70	N	-	-	9.3	Y	N	N
N4800	27	100.1	Area 48	-	46.1	60.9	60.7	58.5	51.5	68.8	0.0	69.9	70.4	70	N	-	-	9.4	Y	N	N
N4800	28	102.9	Area 48	-	47.5	61.1	60.7	58.5	51.5	69.2	0.0	70.2	70.7	70	Y	-	-	9.4	Y	N	Y
N4800	29	105.6	Area 48	-	48.9	61.2	60.7	58.6	51.6	69.4	0.0	70.4	70.9	70	Y	-	-	9.5	Y	N	Y
N4800	30	108.4	Area 48	-	49.8	61.4	60.8	58.7	51.6	69.7	0.0	70.6	71.1	70	Y	-	-	9.4	Y	Y	Y
N4800	31	111.1	Area 48	-	50.8	61.3	60.9	58.7	51.6	69.8	0.0	70.7	71.2	70	Y	-	-	9.5	Y	Y	Y
N4800	32	113.9	Area 48	-	51.4	61.4	60.9	58.7	51.6	70.0	0.0	70.8	71.3	70	Y	-	-	9.5	Y	Y	Y
N4800	33	116.6	Area 48	-	51.9	61.4	60.9	58.7	51.6	70.1	0.0	70.9	71.4	70	Y	-	-	9.5	Y	Y	Y
N4800	34	119.4	Area 48	-	52.3	61.4	61.0	58.7	51.7	70.2	0.0	71.0	71.5	70	Y	-	-	9.6	Y	Y	Y
N4800	35	122.1	Area 48	-	52.7	61.5	61.0	58.7	51.8	70.3	0.0	71.1	71.6	70	Y	-	-	9.6	Y	Y	Y
N4800	36	124.9	Area 48	-	53.0	61.4	61.0	58.7	51.8	70.3	0.0	71.1	71.6	70	Y	-	-	9.6	Y	Y	Y
N4800	37	127.6	Area 48	-	53.3	61.5	61.0	58.7	51.9	70.4	0.0	71.2	71.7	70	Y	-	-	9.6	Y	Y	Y
N4800	38	130.4	Area 48	-	53.6	61.4	61.0	58.7	51.9	70.4	0.0	71.2	71.7	70	Y	-	-	9.6	Y	Y	Y
N4800	39	133.1	Area 48	-	53.8	61.5	61.1	58.8	52.1	70.4	0.0	71.2	71.7	70	Y	-	-	9.5	Y	Y	Y
N4801	1	28.6	Area 48	-	25.4	58.6	52.9	55.3	39.8	56.4	0.0	59.9	62.3	70	N	-	-	3.7	Y	N	N
N4801	2	31.4	Area 48	-	25.9	59.0	53.2	55.6	40.7	56.8	0.0	60.3	62.7	70	N	-	-	3.7	Y	N	N
N4801	3	34.1	Area 48	-	26.3	59.1	53.6	55.9	41.4	57.2	0.0	60.6	62.9	70	N	-	-	3.8	Y	N	N
N4801	4	36.9	Area 48	-	26.8	59.0	53.9	56.1	42.3	57.6	0.0	60.9	63.1	70	N	-	-	4.1	Y	N	N
N4801	5	39.6	Area 48	-	27.3	58.8	54.4	56.1	43.1	58.0	0.0	61.3	63.2	70	N	-	-	4.4	Y	N	N
N4801	6	42.4	Area 48	-	27.9	58.7	54.9	56.2	44.0	58.5	0.0	61.6	63.4	70	N	-	-	4.7	Y	N	N
N4801	7	45.1	Area 48	-	28.5	58.6	55.2	56.3	44.8	58.9	0.0	62.0	63.6	70	N	-	-	5.0	Y	N	N
N4801	8	47.9	Area 48	-	29.0	58.5	55.7	56.3	45.6	59.4	0.0	62.3	63.8	70	N	-	-	5.3	Y	N	N
N4801	9	50.6	Area 48	-	29.6	58.4	56.3	56.3	46.3	59.9	0.0	62.7	64.1	70	N	-	-	5.7	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
N4801	10	53.4	Area 48	-	30.2	58.3	56.5	56.3	47.0	60.4	0.0	63.1	64.3	70	N	-	-	6.0	Y	N	N
N4801	11	56.1	Area 48	-	30.9	58.2	56.9	56.4	47.8	60.9	0.0	63.5	64.6	70	N	-	-	6.4	Y	N	N
N4801	12	58.9	Area 48	-	31.5	58.2	57.4	56.4	48.7	61.7	0.0	64.0	65.0	70	N	-	-	6.8	Y	N	N
N4801	13	61.6	Area 48	-	32.2	58.2	57.8	56.4	49.4	62.3	0.0	64.5	65.4	70	N	-	-	7.2	Y	N	N
N4801	14	64.4	Area 48	-	32.8	58.3	58.1	56.5	50.0	63.0	0.0	65.1	65.9	70	N	-	-	7.6	Y	N	N
N4801	15	67.1	Area 48	-	33.6	58.3	58.5	56.6	50.3	63.7	0.0	65.6	66.3	70	N	-	-	8.0	Y	N	N
N4801	16	69.9	Area 48	-	34.3	58.4	58.9	56.8	50.6	64.2	0.0	66.0	66.7	70	N	-	-	8.3	Y	N	N
N4801	17	72.6	Area 48	-	35.0	58.6	59.2	57.0	50.7	64.6	0.0	66.4	67.0	70	N	-	-	8.4	Y	N	N
N4801	18	75.4	Area 48	-	35.8	58.8	59.5	57.4	50.9	65.1	0.0	66.8	67.4	70	N	-	-	8.6	Y	N	N
N4801	19	78.1	Area 48	-	36.6	59.1	59.8	57.6	51.0	65.6	0.0	67.2	67.8	70	N	-	-	8.7	Y	N	N
N4801	20	80.9	Area 48	-	37.5	59.4	59.9	57.9	51.1	66.0	0.0	67.5	68.2	70	N	-	-	8.8	Y	N	N
N4801	21	83.6	Area 48	-	38.4	60.2	60.1	58.0	51.2	66.5	0.0	67.9	68.6	70	N	-	-	8.4	Y	N	N
N4801	22	86.4	Area 48	-	39.4	59.9	60.2	58.2	51.2	66.9	0.0	68.3	68.9	70	N	-	-	9.0	Y	N	N
N4801	23	89.1	Area 48	-	40.4	60.4	60.4	58.2	51.3	67.4	0.0	68.7	69.3	70	N	-	-	8.9	Y	N	N
N4801	24	91.9	Area 48	-	41.5	60.9	60.5	58.4	51.4	67.8	0.0	69.0	69.6	70	N	-	-	8.7	Y	N	N
N4801	25	94.6	Area 48	-	42.8	61.4	60.7	58.4	51.4	68.1	0.0	69.3	70.0	70	N	-	-	8.5	Y	N	N
N4801	26	97.4	Area 48	-	44.5	61.8	60.7	58.5	51.5	68.5	0.0	69.6	70.3	70	N	-	-	8.4	Y	N	N
N4801	27	100.1	Area 48	-	46.0	62.0	60.8	58.6	51.5	68.7	0.0	69.8	70.5	70	Y	-	-	8.4	Y	N	Y
N4801	28	102.9	Area 48	-	47.5	62.3	60.9	58.7	51.5	69.1	0.0	70.1	70.8	70	Y	-	-	8.4	Y	N	Y
N4801	29	105.6	Area 48	-	49.0	62.4	61.0	58.7	51.5	69.4	0.0	70.4	71.0	70	Y	-	-	8.4	Y	N	Y
N4801	30	108.4	Area 48	-	49.9	62.6	61.0	58.8	51.5	69.6	0.0	70.5	71.2	70	Y	-	-	8.4	Y	Y	Y
N4801	31	111.1	Area 48	-	50.8	62.7	61.1	58.8	51.6	69.8	0.0	70.7	71.4	70	Y	-	-	8.4	Y	Y	Y
N4801	32	113.9	Area 48	-	51.5	62.7	61.1	58.8	51.6	69.9	0.0	70.8	71.5	70	Y	-	-	8.5	Y	Y	Y
N4801	33	116.6	Area 48	-	51.9	62.8	61.2	58.9	51.6	70.1	0.0	70.9	71.6	70	Y	-	-	8.5	Y	Y	Y
N4801	34	119.4	Area 48	-	52.4	62.8	61.2	58.9	51.7	70.2	0.0	71.0	71.7	70	Y	-	-	8.5	Y	Y	Y
N4801	35	122.1	Area 48	-	52.8	62.8	61.2	58.9	51.7	70.2	0.0	71.1	71.7	70	Y	-	-	8.5	Y	Y	Y
N4801	36	124.9	Area 48	-	53.1	62.8	61.2	58.9	51.7	70.3	0.0	71.2	71.8	70	Y	-	-	8.6	Y	Y	Y
N4801	37	127.6	Area 48	-	53.4	62.8	61.3	58.8	51.8	70.4	0.0	71.2	71.9	70	Y	-	-	8.6	Y	Y	Y
N4801	38	130.4	Area 48	-	53.7	62.7	61.3	58.9	51.8	70.4	0.0	71.2	71.9	70	Y	-	-	8.7	Y	Y	Y
N4801	39	133.1	Area 48	-	53.9	62.7	61.3	58.9	51.9	70.5	0.0	71.3	71.9	70	Y	-	-	8.7	Y	Y	Y
N4802	1	24.1	Area 48	-	43.9	55.1	45.2	52.8	0.0	45.9	0.0	54.2	57.9	70	N	-	-	2.5	Y	N	N
N4802	2	26.9	Area 48	-	45.4	55.4	47.1	52.9	0.0	46.9	0.0	54.7	58.3	70	N	-	-	2.5	Y	N	N
N4802	3	29.6	Area 48	-	47.2	55.8	48.6	52.8	0.0	47.6	0.0	55.1	58.8	70	N	-	-	2.4	Y	N	N
N4802	4	32.4	Area 48	-	49.1	56.1	49.9	52.8	0.0	48.1	0.0	55.5	59.2	70	N	-	-	2.3	Y	N	N
N4802	5	35.1	Area 48	-	51.2	56.6	50.8	52.8	0.0	48.5	0.0	55.8	59.9	70	N	-	-	2.2	Y	N	N
N4802	6	37.9	Area 48	-	53.8	57.2	51.8	52.7	0.0	48.9	0.0	56.2	60.7	70	N	-	-	1.9	Y	N	N
N4802	7	40.6	Area 48	-	57.7	58.1	53.0	52.7	0.0	49.1	0.0	56.7	62.3	70	N	-	-	1.4	Y	N	N
N4802	8	43.4	Area 48	-	59.6	59.2	55.1	52.7	0.0	49.4	0.0	57.8	63.7	70	N	-	-	1.3	Y	N	N
N4802	9	46.1	Area 48	-	60.7	60.6	57.0	52.6	0.0	49.8	0.0	58.9	64.9	70	N	-	-	1.2	Y	N	N
N4802	10	48.9	Area 48	-	61.4	62.3	58.2	52.7	0.0	50.7	0.0	59.8	66.1	70	N	-	-	1.2	Y	N	N
N4802	11	51.6	Area 48	-	61.7	63.8	58.6	52.7	0.0	52.2	0.0	60.3	67.0	70	N	-	-	1.1	Y	N	N
N4802	12	54.4	Area 48	-	61.9	64.7	58.6	52.9	0.0	53.4	0.0	60.6	67.5	70	N	-	-	1.0	Y	N	N
N4802	13	57.1	Area 48	-	62.0	65.3	58.7	53.1	0.0	53.8	0.0	60.7	67.9	70	N	-	-	0.9	N	N	N
N4802	14	59.9	Area 48	-	62.0	65.6	58.7	53.4	0.0	53.9	0.0	60.8	68.1	70	N	-	-	0.9	N	N	N
N4802	15	62.6	Area 48	-	62.1	65.9	58.7	53.9	0.0	53.9	0.0	60.9	68.3	70	N	-	-	0.9	N	N	N
N4802	16	65.4	Area 48	-	62.1	66.2	58.7	54.1	0.0	53.8	0.0	60.9	68.5	70	N	-	-	0.9	N	N	N
N4802	17	68.1	Area 48	-	62.1	66.5	58.7	54.5	0.0	53.8	0.0	61.0	68.6	70	N	-	-	0.8	N	N	N
N4802	18	70.9	Area 48	-	62.1	66.7	58.6	54.7	0.0	53.7	0.0	61.0	68.8	70	N	-	-	0.8	N	N	N
N4802	19	73.6	Area 48	-	62.1	66.9	58.6	54.8	0.0	53.6	0.0	61.0	68.9	70	N	-	-	0.8	N	N	N
N4802	20	76.4	Area 48	-	62.1	67.1	58.6	55.0	0.0	53.6	0.0	61.0	69.0	70	N	-	-	0.7	N	N	N
N4802	21	79.1	Area 48	-	62.1	67.2	58.6	55.1	0.0	53.5	0.0	61.0	69.1	70	N	-	-	0.7	N	N	N
N4802	22	81.9	Area 48	-	62.2	67.4	58.5	55.2	0.0	53.5	0.0	61.0	69.2	70	N	-	-	0.7	N	N	N
N4802	23	84.6	Area 48	-	62.2	67.5	58.5	55.2	0.0	53.5	0.0	61.0	69.3	70	N	-	-	0.7	N	N	N
N4802	24	87.4	Area 48	-	62.2	67.7	58.4	55.2	0.0	53.4	0.0	61.0	69.4	70	N	-	-	0.6	N	N	N
N4802	25	90.1	Area 48	-	62.2	67.7	58.4	55.2	0.0	53.4	0.0	60.9	69.5	70	N	-	-	0.7	N	N	N
N4802	26	92.9	Area 48	-	62.2	67.9	58.4	55.2	0.0	53.4	0.0	60.9	69.5	70	N	-	-	0.6	N	N	N
N4802	27	95.6	Area 48	-	62.2	67.9	58.3	55.1	0.0	53.4	0.0	60.9	69.6	70	N	-	-	0.7	N	N	N
N4802	28	98.4	Area 48	-	62.2	68.0	58.3	55.1	0.0	53.4	0.0	60.8	69.7	70	N	-	-	0.7	N	N	N
N4802	29	101.1	Area 48	-	62.3	68.1	58.2	55.0	0.0	53.4	0.0	60.8	69.7	70	N	-	-	0.6	N	N	N
N4802	30	103.9	Area 48	-	62.3	68.2	58.3	55.0	0.0	53.3	0.0	60.8	69.8	70	N	-	-	0.6	N	N	N
N4802	31	106.6	Area 48	-	62.3	68.2	58.3	54.9	0.0	53.3	0.0	60.8	69.8	70	N	-	-	0.6	N	N	N
N4802	32	109.4	Area 48	-	62.4	68.3	58.4	54.9	0.0	53.3	0.0	60.8	69.9	70	N	-	-	0.6	N	N	N
N4802	33	112.1	Area 48	-	62.4	68.3	58.7	54.9	0.0	53.3	0.0	61.0	69.9	70	N	-	-	0.6	N	N	N
N4802	34	114.9	Area 48	-	62.5	68.3	58.9	54.9	0.0	53.3	0.0	61.1	69.9	70	N	-	-	0.6	N	N	N
N4802	35	117.6	Area 48	-	62.5	68.3	59.0	54.8	0.0	53.3	0.0	61.2	70.0	70	N	-	-	0.7	N	N	N
N4802	36	120.4	Area 48	-	62.6	68.4	59.1	54.8	0.0	53.4	0.0	61.3	70.0	70	N	-	-	0.6	N	N	N
N4802	37	123.1	Area 48	-	62.6	68.4	59.4	54.7	0.0	53.4	0.0	61.4	70.0	70	N	-	-	0.6	N	N	N
N4802	38	125.9	Area 48	-	62.7	68.4	59.9	54.7	0.0	53.4	0.0	61.7	70.1	70	N	-	-	0.7	N	N	N
N4802	39	128.6	Area 48	-	62.8	68.4	60.7	54.6	0.0	53.5	0.0	62.3	70.2	70	N	-	-	0.7	N	N	N
N4803	1	24.1	Area 48	-	42.7	51.0	46.7	53.2	0.0	40.1	0.0	54.2	56.1	70	N	-	-	4.5	Y	N	N
N4803	2	26.9	Area 48	-	44.2	51.8	48.4	53.2	0.0	40.4	0.0	54.6	56.7	70	N	-	-	4.2	Y	N	N
N4803	3	29.6	Area 48	-	45.9	52.6	49.9	53.1	0.0	40.9	0.0	55.0	57.3	70	N	-	-	3.9	Y	N	N
N4803	4	32.4	Area 48	-	47.7	53.5	51.1	53.1	0.0	41.3	0.0	55.4	58.0	70	N	-	-	3.5	Y	N	N
N4803	5	35.1	Area 48	-	49.9	54.5	52.1	53.1	0.0	41.9	0.0	55.8	58.8	70	N	-	-	3.0	Y	N	N
N4803	6	37.9	Area 48	-	52.8	55.6	53.1	53.1	0.0	42.5	0.0	56.3	59.9	70	N	-	-	2.5	Y	N	N
N4803	7	40.6	Area 48	-	57.2	56.8	54.4	53.0	0.0	43.2	0.0	57.0	61.8	70	N	-	-	1.8	Y	N	N
N4803	8	43.4	Area 48	-	59.2	58.3	56.4	53.0	0.0	44.2	0.0	58.2	63.4	70	N	-	-	1.6	Y	N	N
N4803	9	46.1	Area 48	-	60.5	60.0	57.9	53.0	0.0	45.6	0.0	59.3	64.7	70	N	-	-	1.4	Y	N	N
N4803	10	48.9	Area 48	-	61.2	61.8	59.1	53.1	0.0	47.2	0.0	60.3	65.9	70	N	-	-	1.4	Y	N	N
N4803	11	51.6	Area 48	-	61.5	63.6	59.4	53.2	0.0	49.7	0.0	60.7	66.9	70	N	-	-	1.2	Y	N	N
N4803	12	54.4	Area 48	-	61.7	64.6	59.5	53.2	0.0	52.4	0.0	61.1	67.5	70	N	-	-	1.1	Y	N	N
N4803	13	57.1	Area 48	-	61.8	65.2	59.6	53.4	0.0	53.5	0.0	61.3	67.9	70	N	-	-	1.1	Y	N	N
N4803	14	59.9	Area 48	-	61.8	65.7	59.7	53.6	0.0	53.8	0.0	61.5	68.2	70	N	-	-	1.0	Y	N	N
N4803	15	62.6	Area 48	-	61.9	66.0	59.7	54.0	0.0	54.0	0.0	61.6	68.4	70	N	-	-	1.0	Y	N	N
N4803	16	65.4	Area 48	-	61.9	66.3	59.7	54.4	0.0	54.1	0.0	61.7	68.6	70	N	-	-	1.0	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT													
							New Roads[2]								Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
N4803	17	68.1	Area 48	-	61.9	66.6	59.7	54.8	0.0	54.0	0.0	61.7	68.8	70	N	-	-	0.9	N	N	N
N4803	18	70.9	Area 48	-	61.9	66.9	59.8	55.1	0.0	54.0	0.0	61.8	69.0	70	N	-	-	0.9	N	N	N
N4803	19	73.6	Area 48	-	61.9	67.1	59.8	55.2	0.0	54.0	0.0	61.8	69.1	70	N	-	-	0.9	N	N	N
N4803	20	76.4	Area 48	-	61.9	67.3	59.8	55.4	0.0	53.9	0.0	61.9	69.3	70	N	-	-	0.9	N	N	N
N4803	21	79.1	Area 48	-	61.9	67.4	59.8	55.5	0.0	53.8	0.0	61.9	69.3	70	N	-	-	0.8	N	N	N
N4803	22	81.9	Area 48	-	61.9	67.5	59.8	55.6	0.0	53.8	0.0	61.9	69.4	70	N	-	-	0.8	N	N	N
N4803	23	84.6	Area 48	-	61.9	67.7	59.8	55.7	0.0	53.8	0.0	61.9	69.6	70	N	-	-	0.9	N	N	N
N4803	24	87.4	Area 48	-	62.0	67.8	59.8	55.8	0.0	53.7	0.0	61.9	69.6	70	N	-	-	0.8	N	N	N
N4803	25	90.1	Area 48	-	62.0	68.0	59.7	55.8	0.0	53.7	0.0	61.9	69.8	70	N	-	-	0.8	N	N	N
N4803	26	92.9	Area 48	-	62.0	68.1	59.8	55.8	0.0	53.6	0.0	61.9	69.8	70	N	-	-	0.7	N	N	N
N4803	27	95.6	Area 48	-	62.0	68.2	59.7	55.8	0.0	53.6	0.0	61.9	69.9	70	N	-	-	0.8	N	N	N
N4803	28	98.4	Area 48	-	62.0	68.3	59.7	55.7	0.0	53.6	0.0	61.9	69.9	70	N	-	-	0.7	N	N	N
N4803	29	101.1	Area 48	-	62.0	68.4	59.7	55.7	0.0	53.6	0.0	61.8	70.0	70	N	-	-	0.7	N	N	N
N4803	30	103.9	Area 48	-	62.1	68.5	59.7	55.6	0.0	53.6	0.0	61.8	70.1	70	N	-	-	0.7	N	N	N
N4803	31	106.6	Area 48	-	62.1	68.6	59.7	55.6	0.0	53.6	0.0	61.8	70.1	70	N	-	-	0.6	N	N	N
N4803	32	109.4	Area 48	-	62.1	68.6	59.7	55.6	0.0	53.5	0.0	61.8	70.2	70	N	-	-	0.7	N	N	N
N4803	33	112.1	Area 48	-	62.2	68.7	59.6	55.6	0.0	53.5	0.0	61.8	70.2	70	N	-	-	0.6	N	N	N
N4803	34	114.9	Area 48	-	62.2	68.7	59.7	55.5	0.0	53.5	0.0	61.8	70.3	70	N	-	-	0.7	N	N	N
N4803	35	117.6	Area 48	-	62.3	68.8	59.7	55.5	0.0	53.5	0.0	61.8	70.3	70	N	-	-	0.6	N	N	N
N4803	36	120.4	Area 48	-	62.4	68.8	59.7	55.4	0.0	53.6	0.0	61.8	70.3	70	N	-	-	0.6	N	N	N
N4803	37	123.1	Area 48	-	62.4	68.8	59.8	55.4	0.0	53.6	0.0	61.8	70.4	70	N	-	-	0.7	N	N	N
N4803	38	125.9	Area 48	-	62.4	68.9	60.0	55.4	0.0	53.6	0.0	62.0	70.4	70	N	-	-	0.6	N	N	N
N4803	39	128.6	Area 48	-	62.5	68.9	60.4	55.3	0.0	53.6	0.0	62.2	70.5	70	Y	-	-	0.7	N	N	N
N4804	1	24.1	Area 48	-	40.4	52.5	48.8	55.3	21.8	47.5	0.0	56.7	58.2	70	N	-	-	5.4	Y	N	N
N4804	2	26.9	Area 48	-	42.1	53.3	49.8	55.7	22.9	47.9	0.0	57.3	58.8	70	N	-	-	5.2	Y	N	N
N4804	3	29.6	Area 48	-	43.9	54.0	50.7	55.8	24.2	48.4	0.0	57.5	59.2	70	N	-	-	4.8	Y	N	N
N4804	4	32.4	Area 48	-	46.0	54.8	51.6	55.7	25.5	49.0	0.0	57.8	59.7	70	N	-	-	4.4	Y	N	N
N4804	5	35.1	Area 48	-	48.4	55.7	52.4	55.7	27.1	49.5	0.0	58.0	60.3	70	N	-	-	3.9	Y	N	N
N4804	6	37.9	Area 48	-	51.8	56.7	53.5	55.7	28.9	50.2	0.0	58.5	61.2	70	N	-	-	3.3	Y	N	N
N4804	7	40.6	Area 48	-	56.7	57.8	55.3	55.7	30.5	50.9	0.0	59.2	62.8	70	N	-	-	2.5	Y	N	N
N4804	8	43.4	Area 48	-	58.7	59.3	56.9	55.6	31.9	51.6	0.0	60.0	64.1	70	N	-	-	2.1	Y	N	N
N4804	9	46.1	Area 48	-	59.8	60.7	57.8	55.6	33.2	52.5	0.0	60.6	65.1	70	N	-	-	1.8	Y	N	N
N4804	10	48.9	Area 48	-	60.3	62.1	59.0	55.6	33.8	53.2	0.0	61.4	66.1	70	N	-	-	1.8	Y	N	N
N4804	11	51.6	Area 48	-	60.6	63.7	59.5	55.7	34.3	54.0	0.0	61.8	67.0	70	N	-	-	1.6	Y	N	N
N4804	12	54.4	Area 48	-	60.8	64.7	59.7	55.7	34.6	55.2	0.0	62.1	67.6	70	N	-	-	1.4	Y	N	N
N4804	13	57.1	Area 48	-	60.8	65.4	59.8	55.7	34.7	56.5	0.0	62.5	68.1	70	N	-	-	1.4	Y	N	N
N4804	14	59.9	Area 48	-	60.9	66.0	59.9	55.8	34.8	57.3	0.0	62.8	68.5	70	N	-	-	1.3	Y	N	N
N4804	15	62.6	Area 48	-	60.9	66.4	60.1	55.9	34.8	57.6	0.0	63.0	68.8	70	N	-	-	1.3	Y	N	N
N4804	16	65.4	Area 48	-	60.9	66.8	60.1	56.0	34.7	57.9	0.0	63.1	69.0	70	N	-	-	1.2	Y	N	N
N4804	17	68.1	Area 48	-	60.9	67.1	60.2	56.3	34.7	58.1	0.0	63.3	69.3	70	N	-	-	1.3	Y	N	N
N4804	18	70.9	Area 48	-	61.0	67.5	60.3	56.6	34.7	58.3	0.0	63.4	69.6	70	N	-	-	1.2	Y	N	N
N4804	19	73.6	Area 48	-	61.0	67.7	60.4	56.7	34.7	58.4	0.0	63.5	69.7	70	N	-	-	1.2	Y	N	N
N4804	20	76.4	Area 48	-	61.0	68.0	60.4	56.8	34.7	58.5	0.0	63.6	69.9	70	N	-	-	1.1	Y	N	N
N4804	21	79.1	Area 48	-	61.0	68.2	60.4	56.9	34.6	58.7	0.0	63.7	70.1	70	N	-	-	1.1	Y	N	N
N4804	22	81.9	Area 48	-	61.0	68.4	60.5	57.0	34.6	59.0	0.0	63.8	70.2	70	N	-	-	1.1	Y	N	N
N4804	23	84.6	Area 48	-	61.0	68.5	60.5	57.1	34.5	59.2	0.0	63.9	70.3	70	N	-	-	1.1	Y	N	N
N4804	24	87.4	Area 48	-	61.0	68.6	60.5	57.2	34.5	59.3	0.0	64.0	70.4	70	N	-	-	1.1	Y	N	N
N4804	25	90.1	Area 48	-	61.0	68.8	60.6	57.3	34.5	59.4	0.0	64.1	70.6	70	Y	-	-	1.1	Y	N	Y
N4804	26	92.9	Area 48	-	61.0	68.9	60.6	57.3	34.5	59.5	0.0	64.1	70.6	70	Y	-	-	1.0	Y	N	Y
N4804	27	95.6	Area 48	-	61.1	69.0	60.6	57.3	34.4	59.7	0.0	64.2	70.7	70	Y	-	-	1.0	Y	N	Y
N4804	28	98.4	Area 48	-	61.1	69.1	60.6	57.3	34.4	59.8	0.0	64.2	70.8	70	Y	-	-	1.1	Y	N	Y
N4804	29	101.1	Area 48	-	61.1	69.2	60.6	57.2	34.3	60.0	0.0	64.3	70.9	70	Y	-	-	1.1	Y	N	Y
N4804	30	103.9	Area 48	-	61.1	69.3	60.6	57.2	34.3	60.0	0.0	64.3	70.9	70	Y	-	-	1.0	Y	N	Y
N4804	31	106.6	Area 48	-	61.2	69.4	60.6	57.2	34.2	60.1	0.0	64.3	71.0	70	Y	-	-	1.0	Y	N	Y
N4804	32	109.4	Area 48	-	61.2	69.4	60.6	57.1	34.2	60.2	0.0	64.3	71.1	70	Y	-	-	1.1	Y	N	Y
N4804	33	112.1	Area 48	-	61.2	69.5	60.6	57.1	34.2	60.3	0.0	64.4	71.1	70	Y	-	-	1.0	Y	N	Y
N4804	34	114.9	Area 48	-	61.2	69.6	60.6	57.0	34.1	60.4	0.0	64.4	71.2	70	Y	-	-	1.0	Y	N	Y
N4804	35	117.6	Area 48	-	61.3	69.6	60.6	57.0	34.1	60.4	0.0	64.4	71.2	70	Y	-	-	1.0	Y	N	Y
N4804	36	120.4	Area 48	-	61.4	69.7	60.6	56.9	34.0	60.4	0.0	64.4	71.3	70	Y	-	-	1.0	Y	N	Y
N4804	37	123.1	Area 48	-	61.4	69.7	60.7	56.9	34.0	60.5	0.0	64.4	71.3	70	Y	-	-	1.0	Y	N	Y
N4804	38	125.9	Area 48	-	61.5	69.8	60.7	56.8	34.0	60.5	0.0	64.5	71.4	70	Y	-	-	1.0	Y	N	Y
N4804	39	128.6	Area 48	-	61.6	69.8	60.9	56.8	34.0	60.5	0.0	64.5	71.4	70	Y	-	-	1.0	Y	N	Y
N4805	1	24.1	Area 48	-	35.6	52.6	48.5	55.1	20.8	47.4	0.0	56.6	58.0	70	N	-	-	5.3	Y	N	N
N4805	2	26.9	Area 48	-	37.4	53.3	49.4	55.6	21.8	47.9	0.0	57.1	58.6	70	N	-	-	5.2	Y	N	N
N4805	3	29.6	Area 48	-	39.3	54.1	50.3	55.6	23.0	48.4	0.0	57.3	59.0	70	N	-	-	4.8	Y	N	N
N4805	4	32.4	Area 48	-	41.3	54.9	51.0	55.6	24.4	48.9	0.0	57.5	59.5	70	N	-	-	4.4	Y	N	N
N4805	5	35.1	Area 48	-	43.6	55.8	51.9	55.6	25.9	49.4	0.0	57.8	60.0	70	N	-	-	3.9	Y	N	N
N4805	6	37.9	Area 48	-	46.0	56.7	53.2	55.5	27.7	50.0	0.0	58.2	60.7	70	N	-	-	3.6	Y	N	N
N4805	7	40.6	Area 48	-	49.4	57.9	55.2	55.5	29.0	50.7	0.0	59.1	61.8	70	N	-	-	3.3	Y	N	N
N4805	8	43.4	Area 48	-	53.3	59.3	56.9	55.5	30.7	51.4	0.0	59.9	63.1	70	N	-	-	2.8	Y	N	N
N4805	9	46.1	Area 48	-	55.0	60.7	57.9	55.5	31.9	52.4	0.0	60.6	64.2	70	N	-	-	2.5	Y	N	N
N4805	10	48.9	Area 48	-	55.6	62.1	59.1	55.5	32.8	53.1	0.0	61.4	65.3	70	N	-	-	2.3	Y	N	N
N4805	11	51.6	Area 48	-	55.7	63.6	59.5	55.6	33.1	53.8	0.0	61.8	66.2	70	N	-	-	1.9	Y	N	N
N4805	12	54.4	Area 48	-	55.8	64.7	59.8	55.6	33.3	55.0	0.0	62.1	66.9	70	N	-	-	1.7	Y	N	N
N4805	13	57.1	Area 48	-	55.8	65.3	59.8	55.6	33.5	56.3	0.0	62.4	67.4	70	N	-	-	1.6	Y	N	N
N4805	14	59.9	Area 48	-	55.8	65.9	59.9	55.6	33.6	57.1	0.0	62.7	67.9	70	N	-	-	1.6	Y	N	N
N4805	15	62.6	Area 48	-	55.8	66.4	60.1	55.7	33.5	57.5	0.0	62.9	68.3	70	N	-	-	1.5	Y	N	N
N4805	16	65.4	Area 48	-	55.8	66.8	60.2	55.9	33.6	57.8	0.0	63.1	68.6	70	N	-	-	1.5	Y	N	N
N4805	17	68.1	Area 48	-	55.8	67.1	60.3	56.2	33.6	58.0	0.0	63.3	68.8	70	N	-	-	1.4	Y	N	N
N4805	18	70.9	Area 48	-	55.8	67.4	60.3	56.4	33.6	58.2	0.0	63.4	69.1	70	N	-	-	1.4	Y	N	N
N4805	19	73.6	Area 48	-	55.8	67.7	60.4	56.6	33.5	58.3	0.0	63.5	69.3	70	N	-	-	1.3	Y	N	N
N4805	20	76.4	Area 48	-	55.8	68.0	60.4	56.7	33.5	58.5	0.0	63.6	69.5	70	N	-	-	1.2	Y	N	N
N4805	21	79.1	Area 48	-	55.8	68.1	60.5	56.9	33.4	58.6	0.0	63.7	69.7	70	N	-	-	1.4	Y	N	N
N4805	22	81.9	Area 48	-	55.9	68.3	60.5	57.0	33.4	58.7	0.0	63.8	69.8	70	N	-	-	1.3	Y	N	N
N4805	23	84.6	Area 48	-	55.9	68.5	60.5	57.1	33.4	59.0	0.0	63.9	70.0	70	N	-	-	1.3	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT								Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]											
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
N4805	24	87.4	Area 48	-	55.9	68.6	60.6	57.2	33.3	59.1	0.0	64.0	70.1	70	N	-	-	1.3	Y	N	N
N4805	25	90.1	Area 48	-	55.9	68.8	60.6	57.3	33.3	59.2	0.0	64.0	70.2	70	N	-	-	1.2	Y	N	N
N4805	26	92.9	Area 48	-	55.9	68.9	60.6	57.3	33.2	59.3	0.0	64.1	70.3	70	N	-	-	1.2	Y	N	N
N4805	27	95.6	Area 48	-	55.9	69.0	60.6	57.3	33.2	59.5	0.0	64.1	70.4	70	N	-	-	1.2	Y	N	N
N4805	28	98.4	Area 48	-	56.0	69.1	60.6	57.3	33.2	59.7	0.0	64.2	70.5	70	Y	-	-	1.2	Y	N	Y
N4805	29	101.1	Area 48	-	56.0	69.2	60.6	57.3	33.1	59.8	0.0	64.2	70.6	70	Y	-	-	1.2	Y	N	Y
N4805	30	103.9	Area 48	-	56.0	69.3	60.6	57.3	33.1	59.9	0.0	64.3	70.6	70	Y	-	-	1.1	Y	N	Y
N4805	31	106.6	Area 48	-	56.0	69.4	60.6	57.2	33.0	60.0	0.0	64.3	70.7	70	Y	-	-	1.1	Y	N	Y
N4805	32	109.4	Area 48	-	56.1	69.5	60.6	57.2	33.0	60.1	0.0	64.3	70.8	70	Y	-	-	1.1	Y	N	Y
N4805	33	112.1	Area 48	-	56.1	69.6	60.6	57.1	33.0	60.1	0.0	64.3	70.8	70	Y	-	-	1.0	Y	N	Y
N4805	34	114.9	Area 48	-	56.2	69.6	60.6	57.1	33.0	60.2	0.0	64.3	70.9	70	Y	-	-	1.1	Y	N	Y
N4805	35	117.6	Area 48	-	56.3	69.7	60.7	57.0	33.0	60.3	0.0	64.4	71.0	70	Y	-	-	1.1	Y	N	Y
N4805	36	120.4	Area 48	-	56.3	69.7	60.7	57.0	33.0	60.3	0.0	64.4	71.0	70	Y	-	-	1.1	Y	N	Y
N4805	37	123.1	Area 48	-	56.4	69.7	60.7	57.0	33.0	60.3	0.0	64.4	71.0	70	Y	-	-	1.1	Y	N	Y
N4805	38	125.9	Area 48	-	56.5	69.8	60.7	56.9	33.0	60.4	0.0	64.4	71.1	70	Y	-	-	1.1	Y	N	Y
N4805	39	128.6	Area 48	-	56.5	69.8	60.8	56.9	33.0	60.4	0.0	64.5	71.1	70	Y	-	-	1.1	Y	N	Y
N4806	1	24.1	Area 48	-	26.1	51.9	47.6	54.8	22.7	47.4	0.0	56.2	57.5	70	N	-	-	5.6	Y	N	N
N4806	2	26.9	Area 48	-	28.1	52.6	48.6	54.8	22.7	47.5	0.0	56.3	57.9	70	N	-	-	5.3	Y	N	N
N4806	3	29.6	Area 48	-	30.3	53.2	49.5	54.8	22.7	47.7	0.0	56.5	58.2	70	N	-	-	5.0	Y	N	N
N4806	4	32.4	Area 48	-	32.9	53.9	50.3	54.8	22.8	47.8	0.0	56.7	58.5	70	N	-	-	4.6	Y	N	N
N4806	5	35.1	Area 48	-	35.9	54.6	51.4	54.7	22.8	48.0	0.0	57.0	59.0	70	N	-	-	4.3	Y	N	N
N4806	6	37.9	Area 48	-	39.2	55.3	53.0	54.7	22.7	48.2	0.0	57.5	59.6	70	N	-	-	4.2	Y	N	N
N4806	7	40.6	Area 48	-	44.4	56.1	55.4	54.6	22.8	48.4	0.0	58.5	60.6	70	N	-	-	4.2	Y	N	N
N4806	8	43.4	Area 48	-	48.3	57.1	57.3	54.6	22.8	48.7	0.0	59.6	61.7	70	N	-	-	4.1	Y	N	N
N4806	9	46.1	Area 48	-	49.6	58.5	58.5	54.6	22.8	49.2	0.0	60.3	62.7	70	N	-	-	3.7	Y	N	N
N4806	10	48.9	Area 48	-	49.8	60.3	59.6	54.6	22.7	49.8	0.0	61.1	63.9	70	N	-	-	3.2	Y	N	N
N4806	11	51.6	Area 48	-	49.8	62.2	60.0	54.6	22.8	50.8	0.0	61.5	65.0	70	N	-	-	2.6	Y	N	N
N4806	12	54.4	Area 48	-	49.8	63.4	60.1	54.6	22.8	52.5	0.0	61.7	65.8	70	N	-	-	2.2	Y	N	N
N4806	13	57.1	Area 48	-	49.8	64.1	60.2	54.6	22.8	54.3	0.0	62.0	66.3	70	N	-	-	2.0	Y	N	N
N4806	14	59.9	Area 48	-	49.8	64.7	60.3	54.8	22.8	55.2	0.0	62.3	66.7	70	N	-	-	1.9	Y	N	N
N4806	15	62.6	Area 48	-	49.8	64.9	60.4	55.0	22.7	55.6	0.0	62.5	67.0	70	N	-	-	2.0	Y	N	N
N4806	16	65.4	Area 48	-	49.8	65.1	60.5	55.4	22.7	55.7	0.0	62.6	67.1	70	N	-	-	1.9	Y	N	N
N4806	17	68.1	Area 48	-	49.8	65.3	60.5	55.7	22.7	55.8	0.0	62.8	67.3	70	N	-	-	1.9	Y	N	N
N4806	18	70.9	Area 48	-	49.8	65.5	60.6	56.0	22.7	55.7	0.0	62.9	67.5	70	N	-	-	1.9	Y	N	N
N4806	19	73.6	Area 48	-	49.8	65.6	60.7	56.2	22.7	55.8	0.0	62.9	67.6	70	N	-	-	1.9	Y	N	N
N4806	20	76.4	Area 48	-	49.8	65.8	60.7	56.4	22.7	55.8	0.0	63.0	67.7	70	N	-	-	1.8	Y	N	N
N4806	21	79.1	Area 48	-	49.8	66.0	60.8	56.7	22.7	55.7	0.0	63.1	67.9	70	N	-	-	1.8	Y	N	N
N4806	22	81.9	Area 48	-	49.8	66.2	60.8	56.9	22.7	55.7	0.0	63.2	68.0	70	N	-	-	1.7	Y	N	N
N4806	23	84.6	Area 48	-	49.7	66.4	60.8	57.0	22.6	55.7	0.0	63.2	68.2	70	N	-	-	1.7	Y	N	N
N4806	24	87.4	Area 48	-	49.7	66.6	60.9	57.1	22.8	55.8	0.0	63.3	68.3	70	N	-	-	1.6	Y	N	N
N4806	25	90.1	Area 48	-	49.7	66.8	60.9	57.2	23.1	55.7	0.0	63.3	68.5	70	N	-	-	1.6	Y	N	N
N4806	26	92.9	Area 48	-	49.7	67.0	60.9	57.2	23.4	55.7	0.0	63.3	68.6	70	N	-	-	1.5	Y	N	N
N4806	27	95.6	Area 48	-	49.7	67.2	60.9	57.2	23.9	55.8	0.0	63.3	68.7	70	N	-	-	1.4	Y	N	N
N4806	28	98.4	Area 48	-	49.7	67.4	60.9	57.2	24.6	55.8	0.0	63.3	68.9	70	N	-	-	1.4	Y	N	N
N4806	29	101.1	Area 48	-	49.7	67.6	60.9	57.2	25.3	56.9	0.0	63.5	69.1	70	N	-	-	1.4	Y	N	N
N4806	30	103.9	Area 48	-	49.7	67.7	60.9	57.1	26.1	57.0	0.0	63.5	69.1	70	N	-	-	1.3	Y	N	N
N4806	31	106.6	Area 48	-	49.7	67.8	60.9	57.1	27.0	57.0	0.0	63.5	69.3	70	N	-	-	1.4	Y	N	N
N4806	32	109.4	Area 48	-	49.7	68.0	60.9	57.0	27.8	57.0	0.0	63.5	69.3	70	N	-	-	1.2	Y	N	N
N4806	33	112.1	Area 48	-	49.6	68.1	60.9	57.0	28.7	57.0	0.0	63.5	69.5	70	N	-	-	1.3	Y	N	N
N4806	34	114.9	Area 48	-	49.6	68.3	60.9	56.9	29.6	57.0	0.0	63.5	69.6	70	N	-	-	1.2	Y	N	N
N4806	35	117.6	Area 48	-	49.6	68.3	60.9	56.8	30.5	57.0	0.0	63.5	69.6	70	N	-	-	1.2	Y	N	N
N4806	36	120.4	Area 48	-	49.6	68.4	61.0	56.8	31.4	57.2	0.0	63.5	69.7	70	N	-	-	1.2	Y	N	N
N4806	37	123.1	Area 48	-	49.6	68.5	61.0	56.7	32.3	57.2	0.0	63.5	69.8	70	N	-	-	1.2	Y	N	N
N4806	38	125.9	Area 48	-	49.6	68.6	61.1	56.6	33.2	57.3	0.0	63.6	69.8	70	N	-	-	1.1	Y	N	N
N4806	39	128.6	Area 48	-	49.5	68.7	61.3	56.5	34.1	57.5	0.0	63.7	69.9	70	N	-	-	1.1	Y	N	N
N4807	1	24.1	Area 48	-	32.6	52.6	47.8	55.1	23.2	44.3	0.0	56.1	57.7	70	N	-	-	5.1	Y	N	N
N4807	2	26.9	Area 48	-	34.6	53.4	48.8	55.1	23.2	44.6	0.0	56.3	58.1	70	N	-	-	4.6	Y	N	N
N4807	3	29.6	Area 48	-	36.7	54.3	49.9	55.0	23.2	44.8	0.0	56.5	58.5	70	N	-	-	4.1	Y	N	N
N4807	4	32.4	Area 48	-	39.3	55.2	50.6	55.0	23.2	45.1	0.0	56.6	59.0	70	N	-	-	3.7	Y	N	N
N4807	5	35.1	Area 48	-	42.3	56.2	51.6	55.0	23.2	45.4	0.0	56.9	59.7	70	N	-	-	3.3	Y	N	N
N4807	6	37.9	Area 48	-	45.6	57.2	53.3	54.9	23.2	45.8	0.0	57.5	60.5	70	N	-	-	3.0	Y	N	N
N4807	7	40.6	Area 48	-	50.1	58.5	55.9	54.9	23.2	46.2	0.0	58.7	61.9	70	N	-	-	2.8	Y	N	N
N4807	8	43.4	Area 48	-	53.9	60.0	57.9	54.9	23.2	46.7	0.0	59.9	63.5	70	N	-	-	2.5	Y	N	N
N4807	9	46.1	Area 48	-	55.3	61.4	59.1	54.9	23.2	47.5	0.0	60.7	64.6	70	N	-	-	2.2	Y	N	N
N4807	10	48.9	Area 48	-	55.7	63.1	60.0	54.9	23.2	48.5	0.0	61.4	65.8	70	N	-	-	2.0	Y	N	N
N4807	11	51.6	Area 48	-	55.9	64.4	60.3	55.0	23.2	50.1	0.0	61.7	66.7	70	N	-	-	1.7	Y	N	N
N4807	12	54.4	Area 48	-	55.9	65.4	60.5	55.0	23.2	51.9	0.0	62.0	67.3	70	N	-	-	1.4	Y	N	N
N4807	13	57.1	Area 48	-	55.9	66.1	60.6	55.0	23.2	54.0	0.0	62.4	67.9	70	N	-	-	1.4	Y	N	N
N4807	14	59.9	Area 48	-	55.9	66.6	60.7	55.2	23.2	55.0	0.0	62.6	68.3	70	N	-	-	1.3	Y	N	N
N4807	15	62.6	Area 48	-	55.9	66.9	60.8	55.4	23.2	55.3	0.0	62.8	68.6	70	N	-	-	1.4	Y	N	N
N4807	16	65.4	Area 48	-	55.9	67.2	60.9	55.8	23.1	55.6	0.0	62.9	68.8	70	N	-	-	1.3	Y	N	N
N4807	17	68.1	Area 48	-	55.9	67.5	61.0	56.1	23.1	55.5	0.0	63.0	69.0	70	N	-	-	1.2	Y	N	N
N4807	18	70.9	Area 48	-	55.9	67.8	61.0	56.3	23.1	55.6	0.0	63.1	69.2	70	N	-	-	1.1	Y	N	N
N4807	19	73.6	Area 48	-	55.9	68.0	61.1	56.6	23.1	55.6	0.0	63.2	69.4	70	N	-	-	1.1	Y	N	N
N4807	20	76.4	Area 48	-	55.9	68.1	61.1	56.8	23.1	55.6	0.0	63.3	69.6	70	N	-	-	1.2	Y	N	N
N4807	21	79.1	Area 48	-	55.9	68.3	61.2	57.1	23.1	55.5	0.0	63.4	69.7	70	N	-	-	1.2	Y	N	N
N4807	22	81.9	Area 48	-	55.9	68.5	61.2	57.3	23.0	55.4	0.0	63.4	69.9	70	N	-	-	1.2	Y	N	N
N4807	23	84.6	Area 48	-	55.8	68.7	61.2	57.4	23.1	55.5	0.0	63.5	70.0	70	N	-	-	1.1	Y	N	N
N4807	24	87.4	Area 48	-	55.8	68.8	61.2	57.5	23.3	55.5	0.0	63.5	70.1	70	N	-	-	1.1	Y	N	N
N4807	25	90.1	Area 48	-	55.8	68.9	61.3	57.5	23.7	55.4	0.0	63.5	70.2	70	N	-	-	1.1	Y	N	N
N4807	26	92.9	Area 48	-	55.8	69.1	61.2	57.6	24.1	55.3	0.0	63.5	70.4	70	N	-	-	1.1	Y	N	N
N4807	27	95.6	Area 48	-	55.8	69.2	61.3	57.7	24.6	55.3	0.0	63.5	70.4	70	N	-	-	1.0	Y	N	N
N4807	28	98.4	Area 48	-	55.8	69.4	61.3	57.7	25.3	55.4	0.0	63.6	70.5	70	Y	-	-	0.9	N	N	N
N4807	29	101.1	Area 48	-	55.8	69.5	61.3	57.6	26.1	56.1	0.0	63.7	70.7	70	Y	-	-	1.0	Y	N	Y
N4807	30	103.9	Area 48	-	55.8	69.5	61.3	57.6	26.9	56.1	0.0	63.7	70.7	70	Y	-	-	1.0	Y	N	Y

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
N4807	31	106.6	Area 48	-	55.8	69.7	61.3	57.6	27.8	56.1	0.0	63.7	70.8	70	Y	-	-	0.9	N	N	N
N4807	32	109.4	Area 48	-	55.8	69.8	61.3	57.6	28.7	56.2	0.0	63.7	70.9	70	Y	-	-	0.9	N	N	N
N4807	33	112.1	Area 48	-	55.8	69.9	61.3	57.5	29.7	56.2	0.0	63.7	70.9	70	Y	-	-	0.8	N	N	N
N4807	34	114.9	Area 48	-	55.7	70.0	61.2	57.4	30.7	56.2	0.0	63.6	71.0	70	Y	-	-	0.8	N	N	N
N4807	35	117.6	Area 48	-	55.7	70.1	61.3	57.5	31.8	56.2	0.0	63.6	71.1	70	Y	-	-	0.8	N	N	N
N4807	36	120.4	Area 48	-	55.7	70.1	61.3	57.4	32.8	56.4	0.0	63.7	71.1	70	Y	-	-	0.8	N	N	N
N4807	37	123.1	Area 48	-	55.7	70.2	61.3	57.4	33.9	56.4	0.0	63.7	71.2	70	Y	-	-	0.8	N	N	N
N4807	38	125.9	Area 48	-	55.7	70.2	61.4	57.3	34.9	56.6	0.0	63.8	71.2	70	Y	-	-	0.8	N	N	N
N4807	39	128.6	Area 48	-	55.7	70.3	61.6	57.3	36.0	56.8	0.0	63.9	71.3	70	Y	-	-	0.9	N	N	N
N4808	1	24.1	Area 48	-	46.9	47.7	0.0	40.8	0.0	0.0	0.0	40.8	50.8	70	N	-	-	0.5	N	N	N
N4808	2	26.9	Area 48	-	49.6	49.0	0.0	40.8	0.0	0.0	0.0	40.8	52.6	70	N	-	-	0.3	N	N	N
N4808	3	29.6	Area 48	-	53.1	50.8	0.0	41.0	0.0	0.0	0.0	41.0	55.3	70	N	-	-	0.2	N	N	N
N4808	4	32.4	Area 48	-	56.8	53.2	0.0	41.4	0.0	0.0	0.0	41.4	58.4	70	N	-	-	0.0	N	N	N
N4808	5	35.1	Area 48	-	59.1	54.2	0.0	42.2	0.0	0.0	0.0	42.2	60.4	70	N	-	-	0.1	N	N	N
N4808	6	37.9	Area 48	-	60.3	55.1	0.0	42.5	0.0	0.0	0.0	42.5	61.5	70	N	-	-	0.1	N	N	N
N4808	7	40.6	Area 48	-	61.5	56.2	0.0	42.6	0.0	0.0	0.0	42.6	62.7	70	N	-	-	0.1	N	N	N
N4808	8	43.4	Area 48	-	62.4	57.4	0.0	43.1	0.0	0.0	0.0	43.1	63.6	70	N	-	-	0.0	N	N	N
N4808	9	46.1	Area 48	-	63.0	58.5	0.0	43.9	0.0	0.0	0.0	43.9	64.3	70	N	-	-	0.0	N	N	N
N4808	10	48.9	Area 48	-	63.3	59.2	0.0	44.3	0.0	0.0	0.0	44.3	64.8	70	N	-	-	0.1	N	N	N
N4808	11	51.6	Area 48	-	63.5	60.0	0.0	44.5	0.0	0.0	0.0	44.5	65.2	70	N	-	-	0.1	N	N	N
N4808	12	54.4	Area 48	-	63.6	60.7	0.0	44.4	0.0	0.0	0.0	44.4	65.5	70	N	-	-	0.1	N	N	N
N4808	13	57.1	Area 48	-	63.7	61.3	0.0	44.5	0.0	0.0	0.0	44.5	65.7	70	N	-	-	0.0	N	N	N
N4808	14	59.9	Area 48	-	63.7	61.9	0.0	44.5	0.0	0.0	0.0	44.5	66.0	70	N	-	-	0.1	N	N	N
N4808	15	62.6	Area 48	-	63.8	62.3	0.0	44.5	0.0	0.0	0.0	44.5	66.1	70	N	-	-	0.0	N	N	N
N4808	16	65.4	Area 48	-	63.8	62.8	0.0	44.5	0.0	0.0	0.0	44.5	66.4	70	N	-	-	0.1	N	N	N
N4808	17	68.1	Area 48	-	63.8	63.2	0.0	44.5	0.0	0.0	0.0	44.5	66.5	70	N	-	-	0.0	N	N	N
N4808	18	70.9	Area 48	-	63.8	63.6	0.0	44.5	0.0	0.0	0.0	44.5	66.7	70	N	-	-	0.0	N	N	N
N4808	19	73.6	Area 48	-	63.8	64.0	0.0	44.5	0.0	0.0	0.0	44.5	66.9	70	N	-	-	0.0	N	N	N
N4808	20	76.4	Area 48	-	63.8	64.3	0.0	44.5	0.0	0.0	0.0	44.5	67.1	70	N	-	-	0.0	N	N	N
N4808	21	79.1	Area 48	-	63.8	64.5	0.0	44.5	0.0	0.0	0.0	44.5	67.2	70	N	-	-	0.0	N	N	N
N4808	22	81.9	Area 48	-	63.8	64.7	0.0	44.6	0.0	0.0	0.0	44.6	67.3	70	N	-	-	0.0	N	N	N
N4808	23	84.6	Area 48	-	63.8	64.8	0.0	44.7	0.0	0.0	0.0	44.7	67.4	70	N	-	-	0.1	N	N	N
N4808	24	87.4	Area 48	-	63.8	65.0	0.0	44.6	0.0	0.0	0.0	44.6	67.5	70	N	-	-	0.0	N	N	N
N4808	25	90.1	Area 48	-	63.9	65.0	0.0	44.6	0.0	0.0	0.0	44.6	67.5	70	N	-	-	0.0	N	N	N
N4808	26	92.9	Area 48	-	63.9	65.1	0.0	44.7	0.0	0.0	0.0	44.7	67.6	70	N	-	-	0.0	N	N	N
N4808	27	95.6	Area 48	-	63.9	65.2	0.0	44.8	0.0	0.0	0.0	44.8	67.6	70	N	-	-	0.0	N	N	N
N4808	28	98.4	Area 48	-	63.9	65.2	0.0	44.9	0.0	0.0	0.0	44.9	67.7	70	N	-	-	0.1	N	N	N
N4808	29	101.1	Area 48	-	63.9	65.2	0.0	44.9	0.0	0.0	0.0	44.9	67.7	70	N	-	-	0.1	N	N	N
N4808	30	103.9	Area 48	-	64.0	65.3	0.0	45.0	0.0	0.0	0.0	45.0	67.7	70	N	-	-	0.0	N	N	N
N4808	31	106.6	Area 48	-	64.0	65.3	0.0	45.1	0.0	0.0	0.0	45.1	67.7	70	N	-	-	0.0	N	N	N
N4808	32	109.4	Area 48	-	64.0	65.3	0.0	45.2	0.0	0.0	0.0	45.2	67.7	70	N	-	-	0.0	N	N	N
N4808	33	112.1	Area 48	-	64.0	65.4	0.0	45.4	0.0	0.0	0.0	45.4	67.8	70	N	-	-	0.0	N	N	N
N4808	34	114.9	Area 48	-	64.0	65.4	0.0	45.5	0.0	0.0	0.0	45.5	67.8	70	N	-	-	0.0	N	N	N
N4808	35	117.6	Area 48	-	64.1	65.4	0.0	45.7	0.0	0.0	0.0	45.7	67.8	70	N	-	-	0.0	N	N	N
N4808	36	120.4	Area 48	-	64.1	65.4	0.0	46.0	0.0	0.0	0.0	46.0	67.8	70	N	-	-	0.0	N	N	N
N4808	37	123.1	Area 48	-	64.1	65.4	0.0	46.3	0.0	0.0	0.0	46.3	67.8	70	N	-	-	0.0	N	N	N
N4808	38	125.9	Area 48	-	64.2	65.4	0.0	46.4	0.0	0.0	0.0	46.4	67.9	70	N	-	-	0.0	N	N	N
N4808	39	128.6	Area 48	-	64.2	65.4	0.0	46.8	0.0	0.0	0.0	46.8	67.9	70	N	-	-	0.0	N	N	N
N4809	1	24.1	Area 48	-	47.1	52.4	46.4	52.0	0.0	39.5	0.0	53.2	56.4	70	N	-	-	2.9	Y	N	N
N4809	2	26.9	Area 48	-	49.6	53.5	47.3	52.0	0.0	40.0	0.0	53.5	57.3	70	N	-	-	2.3	Y	N	N
N4809	3	29.6	Area 48	-	52.8	54.7	48.4	52.0	0.0	40.5	0.0	53.8	58.6	70	N	-	-	1.7	Y	N	N
N4809	4	32.4	Area 48	-	55.8	56.2	49.3	52.1	0.0	41.1	0.0	54.2	60.3	70	N	-	-	1.3	Y	N	N
N4809	5	35.1	Area 48	-	58.5	57.2	50.6	52.4	0.0	41.6	0.0	54.8	61.9	70	N	-	-	1.0	Y	N	N
N4809	6	37.9	Area 48	-	60.0	57.9	52.4	52.6	0.0	42.1	0.0	55.7	63.0	70	N	-	-	0.9	N	N	N
N4809	7	40.6	Area 48	-	61.2	58.6	55.3	52.7	0.0	42.8	0.0	57.4	64.1	70	N	-	-	1.0	Y	N	N
N4809	8	43.4	Area 48	-	62.1	59.5	56.9	52.7	0.0	43.5	0.0	58.5	65.1	70	N	-	-	1.1	Y	N	N
N4809	9	46.1	Area 48	-	62.7	60.4	57.7	52.7	0.0	44.3	0.0	59.0	65.8	70	N	-	-	1.1	Y	N	N
N4809	10	48.9	Area 48	-	63.1	61.1	58.4	52.7	0.0	45.3	0.0	59.6	66.3	70	N	-	-	1.1	Y	N	N
N4809	11	51.6	Area 48	-	63.3	62.0	59.2	52.7	0.0	46.5	0.0	60.3	66.8	70	N	-	-	1.1	Y	N	N
N4809	12	54.4	Area 48	-	63.4	62.8	59.6	52.7	0.0	48.0	0.0	60.7	67.2	70	N	-	-	1.1	Y	N	N
N4809	13	57.1	Area 48	-	63.5	63.8	59.9	52.7	0.0	50.0	0.0	61.0	67.7	70	N	-	-	1.0	Y	N	N
N4809	14	59.9	Area 48	-	63.5	64.5	60.0	52.7	0.0	51.6	0.0	61.3	68.1	70	N	-	-	1.1	Y	N	N
N4809	15	62.6	Area 48	-	63.6	65.4	60.2	52.7	0.0	53.4	0.0	61.6	68.5	70	N	-	-	0.9	N	N	N
N4809	16	65.4	Area 48	-	63.6	65.9	60.3	52.8	0.0	54.1	0.0	61.8	68.9	70	N	-	-	1.0	Y	N	N
N4809	17	68.1	Area 48	-	63.6	66.4	60.4	52.9	0.0	54.6	0.0	62.0	69.2	70	N	-	-	1.0	Y	N	N
N4809	18	70.9	Area 48	-	63.6	66.7	60.5	53.0	0.0	54.8	0.0	62.1	69.4	70	N	-	-	1.0	Y	N	N
N4809	19	73.6	Area 48	-	63.6	67.0	60.6	53.2	0.0	54.8	0.0	62.2	69.5	70	N	-	-	0.9	N	N	N
N4809	20	76.4	Area 48	-	63.6	67.3	60.6	53.3	0.0	54.8	0.0	62.2	69.7	70	N	-	-	0.9	N	N	N
N4809	21	79.1	Area 48	-	63.6	67.6	60.7	53.5	0.0	54.9	0.0	62.3	69.9	70	N	-	-	0.8	N	N	N
N4809	22	81.9	Area 48	-	63.6	67.8	60.8	53.8	0.0	54.9	0.0	62.4	70.0	70	N	-	-	0.8	N	N	N
N4809	23	84.6	Area 48	-	63.6	67.9	60.8	54.1	0.0	54.8	0.0	62.5	70.1	70	N	-	-	0.8	N	N	N
N4809	24	87.4	Area 48	-	63.6	68.1	60.9	54.5	0.0	54.8	0.0	62.6	70.2	70	N	-	-	0.8	N	N	N
N4809	25	90.1	Area 48	-	63.7	68.3	60.9	54.9	0.0	54.8	0.0	62.6	70.4	70	N	-	-	0.8	N	N	N
N4809	26	92.9	Area 48	-	63.7	68.4	60.9	55.2	0.0	54.8	0.0	62.7	70.4	70	N	-	-	0.7	N	N	N
N4809	27	95.6	Area 48	-	63.7	68.5	60.9	55.5	0.0	54.9	0.0	62.8	70.5	70	Y	-	-	0.8	N	N	N
N4809	28	98.4	Area 48	-	63.7	68.6	60.9	55.6	0.0	54.8	0.0	62.8	70.6	70	Y	-	-	0.8	N	N	N
N4809	29	101.1	Area 48	-	63.7	68.7	61.0	55.8	0.0	54.8	0.0	62.9	70.7	70	Y	-	-	0.8	N	N	N
N4809	30	103.9	Area 48	-	63.7	68.8	61.0	56.0	0.0	54.7	0.0	62.9	70.8	70	Y	-	-	0.8	N	N	N
N4809	31	106.6	Area 48	-	63.7	68.9	60.9	56.1	0.0	54.7	0.0	62.9	70.8	70	Y	-	-	0.8	N	N	N
N4809	32	109.4	Area 48	-	63.7	69.1	61.0	56.3	0.0	54.6	0.0	62.9	70.9	70	Y	-	-	0.7	N	N	N
N4809	33	112.1	Area 48	-	63.8	69.1	60.9	56.4	0.0	54.7	0.0	63.0	71.0	70	Y	-	-	0.8	N	N	N
N4809	34	114.9	Area 48	-	63.8	69.2	61.0	56.6	0.0	54.7	0.0	63.0	71.1	70	Y	-	-	0.8	N	N	N
N4809	35	117.6	Area 48	-	63.8	69.3	61.0	56.6	0.0	54.7	0.0	63.0	71.1	70	Y	-	-	0.7	N	N	N
N4809	36	120.4	Area 48	-	63.8	69.4	60.9	56.7	0.0	54.6	0.0	63.0	71.2	70	Y	-	-	0.7	N	N	N
N4809	37	123.1	Area 48	-	63.9	69.5	60.9	56.8	0.0	54.5	0.0	63.0	71.2	70	Y	-	-	0.6	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT													
							New Roads[2]								Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
N4809	38	125.9	Area 48	-	63.9	69.5	60.9	56.8	0.0	54.5	0.0	63.0	71.3	70	Y	-	-	0.7	N	N	N
N4809	39	128.6	Area 48	-	63.9	69.6	60.9	56.8	0.0	54.6	0.0	63.0	71.3	70	Y	-	-	0.7	N	N	N
N4810	1	24.1	Area 48	-	47.1	52.6	46.8	52.1	0.0	39.9	0.0	53.4	56.6	70	N	-	-	2.9	Y	N	N
N4810	2	26.9	Area 48	-	49.7	53.7	47.6	52.1	0.0	40.3	0.0	53.7	57.5	70	N	-	-	2.3	Y	N	N
N4810	3	29.6	Area 48	-	52.8	54.9	48.7	52.2	0.0	40.7	0.0	54.0	58.8	70	N	-	-	1.8	Y	N	N
N4810	4	32.4	Area 48	-	55.7	56.4	49.6	52.3	0.0	41.2	0.0	54.4	60.4	70	N	-	-	1.3	Y	N	N
N4810	5	35.1	Area 48	-	58.3	57.5	50.8	52.6	0.0	41.7	0.0	55.0	61.9	70	N	-	-	1.0	Y	N	N
N4810	6	37.9	Area 48	-	60.1	58.1	52.6	52.8	0.0	42.3	0.0	55.9	63.1	70	N	-	-	0.9	N	N	N
N4810	7	40.6	Area 48	-	61.3	58.8	55.5	52.8	0.0	42.9	0.0	57.5	64.3	70	N	-	-	1.1	Y	N	N
N4810	8	43.4	Area 48	-	62.2	59.6	57.1	52.9	0.0	43.6	0.0	58.6	65.2	70	N	-	-	1.1	Y	N	N
N4810	9	46.1	Area 48	-	62.8	60.4	57.7	52.9	0.0	44.3	0.0	59.1	65.8	70	N	-	-	1.0	Y	N	N
N4810	10	48.9	Area 48	-	63.2	61.2	58.4	52.9	0.0	45.2	0.0	59.6	66.3	70	N	-	-	1.0	Y	N	N
N4810	11	51.6	Area 48	-	63.4	61.9	59.1	52.8	0.0	46.4	0.0	60.2	66.8	70	N	-	-	1.1	Y	N	N
N4810	12	54.4	Area 48	-	63.5	62.7	59.5	52.9	0.0	47.6	0.0	60.6	67.2	70	N	-	-	1.1	Y	N	N
N4810	13	57.1	Area 48	-	63.6	63.5	59.8	52.8	0.0	49.3	0.0	60.9	67.6	70	N	-	-	1.0	Y	N	N
N4810	14	59.9	Area 48	-	63.6	64.3	60.0	52.8	0.0	51.0	0.0	61.2	68.0	70	N	-	-	1.0	Y	N	N
N4810	15	62.6	Area 48	-	63.6	65.0	60.1	52.9	0.0	52.8	0.0	61.5	68.4	70	N	-	-	1.0	Y	N	N
N4810	16	65.4	Area 48	-	63.6	65.7	60.3	52.9	0.0	53.9	0.0	61.8	68.8	70	N	-	-	1.0	Y	N	N
N4810	17	68.1	Area 48	-	63.6	66.2	60.4	53.0	0.0	54.4	0.0	62.0	69.1	70	N	-	-	1.0	Y	N	N
N4810	18	70.9	Area 48	-	63.6	66.6	60.5	53.1	0.0	54.6	0.0	62.1	69.3	70	N	-	-	0.9	N	N	N
N4810	19	73.6	Area 48	-	63.6	66.9	60.6	53.2	0.0	54.8	0.0	62.2	69.5	70	N	-	-	0.9	N	N	N
N4810	20	76.4	Area 48	-	63.7	67.2	60.7	53.3	0.0	54.8	0.0	62.3	69.7	70	N	-	-	0.9	N	N	N
N4810	21	79.1	Area 48	-	63.7	67.5	60.7	53.5	0.0	54.8	0.0	62.3	69.8	70	N	-	-	0.8	N	N	N
N4810	22	81.9	Area 48	-	63.6	67.7	60.8	53.7	0.0	54.8	0.0	62.4	70.0	70	N	-	-	0.9	N	N	N
N4810	23	84.6	Area 48	-	63.7	67.8	60.8	54.0	0.0	54.8	0.0	62.4	70.1	70	N	-	-	0.9	N	N	N
N4810	24	87.4	Area 48	-	63.7	68.0	60.9	54.2	0.0	54.7	0.0	62.5	70.2	70	N	-	-	0.8	N	N	N
N4810	25	90.1	Area 48	-	63.7	68.2	60.9	54.6	0.0	54.8	0.0	62.6	70.3	70	N	-	-	0.8	N	N	N
N4810	26	92.9	Area 48	-	63.7	68.3	60.9	54.9	0.0	54.7	0.0	62.7	70.4	70	N	-	-	0.8	N	N	N
N4810	27	95.6	Area 48	-	63.7	68.4	60.9	55.2	0.0	54.8	0.0	62.7	70.5	70	Y	-	-	0.8	N	N	N
N4810	28	98.4	Area 48	-	63.7	68.5	61.0	55.4	0.0	54.7	0.0	62.8	70.5	70	Y	-	-	0.8	N	N	N
N4810	29	101.1	Area 48	-	63.7	68.6	61.0	55.6	0.0	54.7	0.0	62.8	70.6	70	Y	-	-	0.8	N	N	N
N4810	30	103.9	Area 48	-	63.7	68.8	61.0	55.8	0.0	54.6	0.0	62.8	70.7	70	Y	-	-	0.7	N	N	N
N4810	31	106.6	Area 48	-	63.8	68.9	61.0	55.9	0.0	54.7	0.0	62.9	70.8	70	Y	-	-	0.7	N	N	N
N4810	32	109.4	Area 48	-	63.8	69.0	61.0	56.1	0.0	54.7	0.0	62.9	70.9	70	Y	-	-	0.8	N	N	N
N4810	33	112.1	Area 48	-	63.8	69.1	61.0	56.2	0.0	54.7	0.0	63.0	71.0	70	Y	-	-	0.8	N	N	N
N4810	34	114.9	Area 48	-	63.8	69.2	61.0	56.4	0.0	54.6	0.0	63.0	71.0	70	Y	-	-	0.7	N	N	N
N4810	35	117.6	Area 48	-	63.8	69.3	61.0	56.5	0.0	54.6	0.0	63.0	71.1	70	Y	-	-	0.7	N	N	N
N4810	36	120.4	Area 48	-	63.8	69.4	61.0	56.6	0.0	54.5	0.0	63.0	71.2	70	Y	-	-	0.7	N	N	N
N4810	37	123.1	Area 48	-	63.9	69.4	61.0	56.7	0.0	54.6	0.0	63.0	71.2	70	Y	-	-	0.7	N	N	N
N4810	38	125.9	Area 48	-	63.9	69.5	61.0	56.7	0.0	54.6	0.0	63.0	71.3	70	Y	-	-	0.7	N	N	N
N4810	39	128.6	Area 48	-	63.9	69.5	60.9	56.8	0.0	54.6	0.0	63.0	71.3	70	Y	-	-	0.7	N	N	N
N4811	1	25.6	Area 48	-	53.0	59.0	45.6	47.7	21.2	56.4	0.0	57.2	61.9	70	N	-	-	1.9	Y	N	N
N4811	2	28.4	Area 48	-	54.5	59.3	47.1	47.8	21.2	56.4	0.0	57.4	62.3	70	N	-	-	1.8	Y	N	N
N4811	3	31.1	Area 48	-	55.8	59.9	48.4	47.9	21.2	56.4	0.0	57.5	62.8	70	N	-	-	1.5	Y	N	N
N4811	4	33.9	Area 48	-	57.0	60.6	49.6	48.1	21.2	56.4	0.0	57.7	63.5	70	N	-	-	1.3	Y	N	N
N4811	5	36.6	Area 48	-	57.8	61.1	51.1	48.4	21.2	56.4	0.0	58.0	64.0	70	N	-	-	1.2	Y	N	N
N4811	6	39.4	Area 48	-	58.7	61.4	52.8	49.1	21.2	56.4	0.0	58.5	64.5	70	N	-	-	1.2	Y	N	N
N4811	7	42.1	Area 48	-	59.7	61.6	54.4	49.5	21.2	56.5	0.0	59.1	65.1	70	N	-	-	1.3	Y	N	N
N4811	8	44.9	Area 48	-	60.6	61.8	55.2	49.7	21.2	56.5	0.0	59.4	65.5	70	N	-	-	1.2	Y	N	N
N4811	9	47.6	Area 48	-	61.1	62.0	56.1	49.8	21.2	56.5	0.0	59.8	65.8	70	N	-	-	1.2	Y	N	N
N4811	10	50.4	Area 48	-	61.3	62.3	56.8	49.8	21.2	56.6	0.0	60.1	66.1	70	N	-	-	1.3	Y	N	N
N4811	11	53.1	Area 48	-	61.4	62.5	57.3	49.8	21.2	56.6	0.0	60.4	66.3	70	N	-	-	1.3	Y	N	N
N4811	12	55.9	Area 48	-	61.5	62.8	57.7	49.8	21.2	56.7	0.0	60.6	66.5	70	N	-	-	1.3	Y	N	N
N4811	13	58.6	Area 48	-	61.5	63.0	58.1	49.8	21.2	56.8	0.0	60.9	66.7	70	N	-	-	1.4	Y	N	N
N4811	14	61.4	Area 48	-	61.5	63.3	58.6	49.8	21.2	56.9	0.0	61.1	66.9	70	N	-	-	1.4	Y	N	N
N4811	15	64.1	Area 48	-	61.5	63.6	58.8	49.8	21.2	56.9	0.0	61.3	67.1	70	N	-	-	1.4	Y	N	N
N4811	16	66.9	Area 48	-	61.5	64.0	59.0	49.8	21.2	57.2	0.0	61.5	67.3	70	N	-	-	1.4	Y	N	N
N4811	17	69.6	Area 48	-	61.5	64.3	59.2	49.9	21.2	57.2	0.0	61.6	67.5	70	N	-	-	1.4	Y	N	N
N4811	18	72.4	Area 48	-	61.5	64.7	59.3	49.9	21.2	57.5	0.0	61.8	67.7	70	N	-	-	1.3	Y	N	N
N4811	19	75.1	Area 48	-	61.5	65.2	59.4	49.9	21.2	57.7	0.0	61.9	68.0	70	N	-	-	1.3	Y	N	N
N4811	20	77.9	Area 48	-	61.5	65.6	59.4	49.9	21.2	57.7	0.0	62.0	68.2	70	N	-	-	1.2	Y	N	N
N4811	21	80.6	Area 48	-	61.5	66.0	59.5	50.0	21.2	57.8	0.0	62.0	68.5	70	N	-	-	1.2	Y	N	N
N4811	22	83.4	Area 48	-	61.5	66.3	59.6	50.1	21.2	57.8	0.0	62.1	68.6	70	N	-	-	1.1	Y	N	N
N4811	23	86.1	Area 48	-	61.5	66.5	59.6	50.2	21.1	57.8	0.0	62.1	68.8	70	N	-	-	1.1	Y	N	N
N4811	24	88.9	Area 48	-	61.5	66.8	59.6	50.3	21.1	57.8	0.0	62.1	68.9	70	N	-	-	1.0	Y	N	N
N4811	25	91.6	Area 48	-	61.4	67.0	59.7	50.5	21.0	57.9	0.0	62.2	69.1	70	N	-	-	1.0	Y	N	N
N4811	26	94.4	Area 48	-	61.4	67.2	59.7	50.6	21.1	57.8	0.0	62.2	69.2	70	N	-	-	1.0	Y	N	N
N4811	27	97.1	Area 48	-	61.4	67.3	59.7	50.7	21.1	57.8	0.0	62.2	69.3	70	N	-	-	1.0	Y	N	N
N4811	28	99.9	Area 48	-	61.4	67.5	59.8	50.9	21.0	57.7	0.0	62.2	69.4	70	N	-	-	0.9	N	N	N
N4811	29	102.6	Area 48	-	61.4	67.6	59.8	51.1	21.2	57.7	0.0	62.2	69.5	70	N	-	-	1.0	Y	N	N
N4811	30	105.4	Area 48	-	61.4	67.7	59.8	51.4	21.0	57.6	0.0	62.2	69.5	70	N	-	-	0.9	N	N	N
N4811	31	108.1	Area 48	-	61.4	67.8	59.8	51.6	20.9	57.7	0.0	62.3	69.6	70	N	-	-	0.9	N	N	N
N4811	32	110.9	Area 48	-	61.4	67.9	59.8	52.0	20.8	57.6	0.0	62.3	69.6	70	N	-	-	0.8	N	N	N
N4811	33	113.6	Area 48	-	61.4	68.0	59.8	52.2	21.1	57.6	0.0	62.3	69.7	70	N	-	-	0.8	N	N	N
N4811	34	116.4	Area 48	-	61.4	68.0	59.8	52.4	21.4	57.7	0.0	62.3	69.7	70	N	-	-	0.8	N	N	N
N4811	35	119.1	Area 48	-	61.5	68.1	59.8	52.7	21.7	57.6	0.0	62.4	69.8	70	N	-	-	0.8	N	N	N
N4811	36	121.9	Area 48	-	61.5	68.1	59.8	53.2	22.2	57.9	0.0	62.5	69.9	70	N	-	-	0.9	N	N	N
N4811	37	124.6	Area 48	-	61.5	68.2	59.8	52.9	22.9	57.9	0.0	62.5	69.9	70	N	-	-	0.9	N	N	N
N4811	38	127.4	Area 48	-	61.5	68.3	59.8	53.5	23.6	58.1	0.0	62.6	70.0	70	N	-	-	0.9	N	N	N
N4811	39	130.1	Area 48	-	61.5	68.3	59.8	53.6	24.4	58.6	0.0	62.8	70.1	70	N	-	-	1.0	Y	N	N
N4811	40	132.9	Area 48	-	61.6	68.4	59.8	53.8	25.0	59.2	0.0	63.1	70.1	70	N	-	-	0.9	N	N	N
N4812	1	25.6	Area 48	-	52.0	60.6	47.0	49.1	20.6	56.0	0.0	57.2	62.7	70	N	-	-	1.5	Y	N	N
N4812	2	28.4	Area 48	-	53.6	60.9	48.2	49.1	20.6	56.0	0.0	57.4	63.0	70	N	-	-	1.4	Y	N	N
N4812	3	31.1	Area 48	-	55.1	61.3	49.3	49.2	20.6	56.0	0.0	57.6	63.5	70	N	-	-	1.3	Y	N	N
N4812	4	33.9	Area 48	-	56.5	61.9	50.2	49.3	20.6	56.0	0.0	57.7	64.1	70	N	-	-	1.1	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
N4812	5	36.6	Area 48	-	57.2	62.3	51.4	49.6	20.6	56.1	0.0	58.0	64.6	70	N	-	-	1.1	Y	N	N
N4812	6	39.4	Area 48	-	57.7	62.6	52.8	50.0	20.7	56.1	0.0	58.4	64.9	70	N	-	-	1.1	Y	N	N
N4812	7	42.1	Area 48	-	58.4	62.8	54.0	50.4	20.7	56.1	0.0	58.9	65.3	70	N	-	-	1.2	Y	N	N
N4812	8	44.9	Area 48	-	59.2	62.9	54.8	50.6	20.7	56.2	0.0	59.2	65.6	70	N	-	-	1.2	Y	N	N
N4812	9	47.6	Area 48	-	59.6	63.1	55.5	50.7	20.7	56.2	0.0	59.5	65.8	70	N	-	-	1.1	Y	N	N
N4812	10	50.4	Area 48	-	59.8	63.2	56.2	50.7	20.7	56.3	0.0	59.8	66.0	70	N	-	-	1.2	Y	N	N
N4812	11	53.1	Area 48	-	59.9	63.4	56.7	50.7	20.7	56.3	0.0	60.1	66.2	70	N	-	-	1.2	Y	N	N
N4812	12	55.9	Area 48	-	59.9	63.6	57.3	50.7	20.7	56.4	0.0	60.4	66.4	70	N	-	-	1.3	Y	N	N
N4812	13	58.6	Area 48	-	59.9	63.8	57.6	50.7	20.7	56.6	0.0	60.6	66.6	70	N	-	-	1.3	Y	N	N
N4812	14	61.4	Area 48	-	59.9	64.0	58.1	50.8	20.7	56.7	0.0	60.9	66.8	70	N	-	-	1.4	Y	N	N
N4812	15	64.1	Area 48	-	60.0	64.3	58.5	50.7	20.6	56.8	0.0	61.1	67.0	70	N	-	-	1.3	Y	N	N
N4812	16	66.9	Area 48	-	59.9	64.6	58.7	50.7	20.6	56.9	0.0	61.3	67.2	70	N	-	-	1.3	Y	N	N
N4812	17	69.6	Area 48	-	59.9	64.9	58.9	50.7	20.6	57.0	0.0	61.5	67.4	70	N	-	-	1.3	Y	N	N
N4812	18	72.4	Area 48	-	59.9	65.2	59.1	50.8	20.6	57.2	0.0	61.6	67.6	70	N	-	-	1.3	Y	N	N
N4812	19	75.1	Area 48	-	59.9	65.6	59.2	50.8	20.6	57.4	0.0	61.8	67.9	70	N	-	-	1.3	Y	N	N
N4812	20	77.9	Area 48	-	59.9	65.9	59.3	50.8	20.6	57.5	0.0	61.8	68.1	70	N	-	-	1.2	Y	N	N
N4812	21	80.6	Area 48	-	59.9	66.3	59.4	50.9	20.6	57.5	0.0	61.9	68.3	70	N	-	-	1.1	Y	N	N
N4812	22	83.4	Area 48	-	59.9	66.6	59.5	50.9	20.6	57.6	0.0	62.0	68.5	70	N	-	-	1.1	Y	N	N
N4812	23	86.1	Area 48	-	59.8	66.9	59.5	51.0	20.5	57.6	0.0	62.0	68.7	70	N	-	-	1.0	Y	N	N
N4812	24	88.9	Area 48	-	59.8	67.1	59.6	51.1	20.5	57.6	0.0	62.1	68.8	70	N	-	-	1.0	Y	N	N
N4812	25	91.6	Area 48	-	59.8	67.3	59.6	51.2	20.4	57.6	0.0	62.1	69.0	70	N	-	-	1.0	Y	N	N
N4812	26	94.4	Area 48	-	59.8	67.5	59.7	51.2	20.5	57.6	0.0	62.2	69.1	70	N	-	-	0.9	N	N	N
N4812	27	97.1	Area 48	-	59.8	67.7	59.7	51.4	20.5	57.5	0.0	62.2	69.3	70	N	-	-	0.9	N	N	N
N4812	28	99.9	Area 48	-	59.8	67.8	59.8	51.5	20.5	57.4	0.0	62.1	69.3	70	N	-	-	0.9	N	N	N
N4812	29	102.6	Area 48	-	59.8	67.9	59.8	51.6	20.4	57.4	0.0	62.2	69.4	70	N	-	-	0.9	N	N	N
N4812	30	105.4	Area 48	-	59.8	68.0	59.8	51.8	20.5	57.4	0.0	62.2	69.5	70	N	-	-	0.9	N	N	N
N4812	31	108.1	Area 48	-	59.8	68.1	59.9	52.0	20.3	57.4	0.0	62.2	69.6	70	N	-	-	0.9	N	N	N
N4812	32	110.9	Area 48	-	59.7	68.1	59.9	52.2	20.3	57.4	0.0	62.3	69.6	70	N	-	-	0.9	N	N	N
N4812	33	113.6	Area 48	-	59.7	68.2	59.9	52.4	20.6	57.4	0.0	62.3	69.7	70	N	-	-	0.9	N	N	N
N4812	34	116.4	Area 48	-	59.7	68.3	59.9	52.6	20.9	57.4	0.0	62.3	69.7	70	N	-	-	0.8	N	N	N
N4812	35	119.1	Area 48	-	59.8	68.3	59.9	52.8	21.2	57.4	0.0	62.3	69.8	70	N	-	-	0.9	N	N	N
N4812	36	121.9	Area 48	-	59.8	68.4	59.9	53.0	21.6	57.8	0.0	62.5	69.9	70	N	-	-	0.9	N	N	N
N4812	37	124.6	Area 48	-	60.0	68.5	59.9	53.1	22.3	57.9	0.0	62.6	69.9	70	N	-	-	0.8	N	N	N
N4812	38	127.4	Area 48	-	60.7	68.5	59.9	53.3	23.0	58.0	0.0	62.6	70.1	70	N	-	-	0.9	N	N	N
N4812	39	130.1	Area 48	-	61.1	68.6	59.9	53.4	23.7	58.6	0.0	62.9	70.2	70	N	-	-	0.9	N	N	N
N4812	40	132.9	Area 48	-	61.2	68.6	59.9	53.6	24.3	58.7	0.0	62.9	70.2	70	N	-	-	0.9	N	N	N
N4813	1	25.6	Area 48	-	52.4	60.9	47.0	49.0	19.6	55.9	0.0	57.2	62.9	70	N	-	-	1.4	Y	N	N
N4813	2	28.4	Area 48	-	54.0	61.2	48.2	49.0	19.6	56.0	0.0	57.3	63.2	70	N	-	-	1.2	Y	N	N
N4813	3	31.1	Area 48	-	55.5	61.7	49.3	49.1	19.6	56.0	0.0	57.5	63.8	70	N	-	-	1.2	Y	N	N
N4813	4	33.9	Area 48	-	56.8	62.2	50.3	49.2	19.6	55.9	0.0	57.6	64.4	70	N	-	-	1.1	Y	N	N
N4813	5	36.6	Area 48	-	57.5	62.6	51.4	49.5	19.5	56.0	0.0	57.9	64.8	70	N	-	-	1.0	Y	N	N
N4813	6	39.4	Area 48	-	57.9	62.9	52.8	50.0	19.6	56.0	0.0	58.4	65.1	70	N	-	-	1.0	Y	N	N
N4813	7	42.1	Area 48	-	58.6	63.0	54.0	50.4	19.6	56.0	0.0	58.8	65.4	70	N	-	-	1.1	Y	N	N
N4813	8	44.9	Area 48	-	59.2	63.2	54.8	50.6	19.6	56.1	0.0	59.1	65.7	70	N	-	-	1.0	Y	N	N
N4813	9	47.6	Area 48	-	59.6	63.3	55.5	50.6	19.5	56.1	0.0	59.4	65.9	70	N	-	-	1.1	Y	N	N
N4813	10	50.4	Area 48	-	59.8	63.5	56.1	50.7	19.6	56.2	0.0	59.7	66.1	70	N	-	-	1.1	Y	N	N
N4813	11	53.1	Area 48	-	59.8	63.6	56.7	50.7	19.6	56.3	0.0	60.0	66.3	70	N	-	-	1.2	Y	N	N
N4813	12	55.9	Area 48	-	59.9	63.8	57.1	50.7	19.5	56.3	0.0	60.3	66.5	70	N	-	-	1.2	Y	N	N
N4813	13	58.6	Area 48	-	59.9	64.0	57.5	50.7	19.5	56.5	0.0	60.5	66.7	70	N	-	-	1.3	Y	N	N
N4813	14	61.4	Area 48	-	59.9	64.3	58.0	50.7	19.5	56.6	0.0	60.8	66.8	70	N	-	-	1.2	Y	N	N
N4813	15	64.1	Area 48	-	59.9	64.5	58.4	50.7	19.5	56.7	0.0	61.1	67.0	70	N	-	-	1.2	Y	N	N
N4813	16	66.9	Area 48	-	59.9	64.7	58.6	50.7	19.5	56.8	0.0	61.2	67.2	70	N	-	-	1.3	Y	N	N
N4813	17	69.6	Area 48	-	59.9	65.0	58.9	50.7	19.5	56.9	0.0	61.4	67.4	70	N	-	-	1.2	Y	N	N
N4813	18	72.4	Area 48	-	59.8	65.3	59.1	50.7	19.5	57.0	0.0	61.6	67.6	70	N	-	-	1.2	Y	N	N
N4813	19	75.1	Area 48	-	59.8	65.7	59.2	50.7	19.5	57.3	0.0	61.7	67.9	70	N	-	-	1.2	Y	N	N
N4813	20	77.9	Area 48	-	59.8	66.0	59.3	50.8	19.4	57.3	0.0	61.8	68.1	70	N	-	-	1.2	Y	N	N
N4813	21	80.6	Area 48	-	59.8	66.4	59.4	50.8	19.4	57.5	0.0	61.9	68.4	70	N	-	-	1.1	Y	N	N
N4813	22	83.4	Area 48	-	59.8	66.7	59.5	50.9	19.5	57.4	0.0	61.9	68.6	70	N	-	-	1.1	Y	N	N
N4813	23	86.1	Area 48	-	59.7	66.9	59.5	50.9	19.4	57.5	0.0	62.0	68.7	70	N	-	-	1.0	Y	N	N
N4813	24	88.9	Area 48	-	59.7	67.2	59.6	51.0	19.4	57.5	0.0	62.1	68.9	70	N	-	-	1.0	Y	N	N
N4813	25	91.6	Area 48	-	59.7	67.4	59.7	51.1	19.3	57.5	0.0	62.1	69.0	70	N	-	-	0.9	N	N	N
N4813	26	94.4	Area 48	-	59.7	67.6	59.7	51.2	19.3	57.5	0.0	62.1	69.2	70	N	-	-	0.9	N	N	N
N4813	27	97.1	Area 48	-	59.7	67.8	59.7	51.3	19.2	57.5	0.0	62.2	69.3	70	N	-	-	0.9	N	N	N
N4813	28	99.9	Area 48	-	59.7	67.9	59.8	51.4	19.3	57.3	0.0	62.1	69.4	70	N	-	-	0.9	N	N	N
N4813	29	102.6	Area 48	-	59.6	68.0	59.8	51.5	19.3	57.3	0.0	62.1	69.5	70	N	-	-	0.9	N	N	N
N4813	30	105.4	Area 48	-	59.6	68.0	59.9	51.6	19.4	57.3	0.0	62.2	69.5	70	N	-	-	0.9	N	N	N
N4813	31	108.1	Area 48	-	59.6	68.1	59.9	51.8	19.1	57.3	0.0	62.2	69.6	70	N	-	-	0.9	N	N	N
N4813	32	110.9	Area 48	-	59.6	68.2	59.9	52.0	19.1	57.3	0.0	62.2	69.7	70	N	-	-	0.9	N	N	N
N4813	33	113.6	Area 48	-	59.6	68.3	59.9	52.2	19.3	57.3	0.0	62.3	69.7	70	N	-	-	0.9	N	N	N
N4813	34	116.4	Area 48	-	59.6	68.4	59.9	52.4	19.7	57.3	0.0	62.3	69.8	70	N	-	-	0.9	N	N	N
N4813	35	119.1	Area 48	-	59.6	68.4	59.9	52.6	20.2	57.3	0.0	62.3	69.8	70	N	-	-	0.9	N	N	N
N4813	36	121.9	Area 48	-	59.7	68.5	60.0	52.8	20.7	58.0	0.0	62.6	69.9	70	N	-	-	0.9	N	N	N
N4813	37	124.6	Area 48	-	59.9	68.5	59.9	53.0	21.4	57.9	0.0	62.5	69.9	70	N	-	-	0.8	N	N	N
N4813	38	127.4	Area 48	-	60.6	68.6	59.9	53.1	22.3	57.9	0.0	62.6	70.1	70	N	-	-	0.9	N	N	N
N4813	39	130.1	Area 48	-	61.0	68.7	59.9	53.2	22.9	58.5	0.0	62.8	70.2	70	N	-	-	0.8	N	N	N
N4813	40	132.9	Area 48	-	61.1	68.7	60.0	53.4	23.5	58.7	0.0	62.9	70.3	70	N	-	-	0.9	N	N	N
N4814	1	25.6	Area 48	-	43.4	61.0	47.0	48.9	19.3	55.3	0.0	56.7	62.4	70	N	-	-	1.3	Y	N	N
N4814	2	28.4	Area 48	-	46.5	61.2	48.2	49.2	19.3	55.3	0.0	56.9	62.7	70	N	-	-	1.4	Y	N	N
N4814	3	31.1	Area 48	-	51.4	61.4	49.3	49.4	19.3	55.3	0.0	57.1	63.1	70	N	-	-	1.3	Y	N	N
N4814	4	33.9	Area 48	-	55.4	61.7	50.2	49.5	19.4	55.3	0.0	57.3	63.7	70	N	-	-	1.1	Y	N	N
N4814	5	36.6	Area 48	-	56.3	62.0	51.4	49.7	19.3	55.4	0.0	57.6	64.1	70	N	-	-	1.1	Y	N	N
N4814	6	39.4	Area 48	-	56.7	62.1	52.8	50.1	19.4	55.4	0.0	58.0	64.4	70	N	-	-	1.2	Y	N	N
N4814	7	42.1	Area 48	-	56.9	62.3	53.9	50.3	19.4	55.4	0.0	58.5	64.6	70	N	-	-	1.2	Y	N	N
N4814	8	44.9	Area 48	-	57.1	62.4	54.7	50.5	19.4	55.5	0.0	58.8	64.8	70	N	-	-	1.3	Y	N	N
N4814	9	47.6	Area 48	-	57.3	62.6	55.4	50.5	19.4	55.5	0.0	59.1	65.0	70	N	-	-	1.3	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT									Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]												
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)												
N4814	10	50.4	Area 48	-	57.3	62.7	55.9	50.5	19.3	55.6	0.0	59.4	65.1	70	N	-	-	1.3	Y	N	N
N4814	11	53.1	Area 48	-	57.3	62.8	56.5	50.5	19.3	55.8	0.0	59.7	65.3	70	N	-	-	1.4	Y	N	N
N4814	12	55.9	Area 48	-	57.3	63.0	56.9	50.5	19.3	55.8	0.0	59.9	65.5	70	N	-	-	1.5	Y	N	N
N4814	13	58.6	Area 48	-	57.3	63.2	57.4	50.5	19.3	56.1	0.0	60.3	65.7	70	N	-	-	1.5	Y	N	N
N4814	14	61.4	Area 48	-	57.3	63.4	57.7	50.5	19.3	56.3	0.0	60.5	65.8	70	N	-	-	1.4	Y	N	N
N4814	15	64.1	Area 48	-	57.3	63.5	58.2	50.5	19.3	56.4	0.0	60.8	66.0	70	N	-	-	1.6	Y	N	N
N4814	16	66.9	Area 48	-	57.3	63.8	58.6	50.5	19.3	56.5	0.0	61.1	66.2	70	N	-	-	1.5	Y	N	N
N4814	17	69.6	Area 48	-	57.3	64.1	58.8	50.6	19.3	56.6	0.0	61.3	66.5	70	N	-	-	1.6	Y	N	N
N4814	18	72.4	Area 48	-	57.3	64.4	59.1	50.6	19.3	56.7	0.0	61.4	66.7	70	N	-	-	1.5	Y	N	N
N4814	19	75.1	Area 48	-	57.3	64.7	59.2	50.6	19.3	56.8	0.0	61.6	66.9	70	N	-	-	1.5	Y	N	N
N4814	20	77.9	Area 48	-	57.2	65.2	59.4	50.6	19.3	56.9	0.0	61.7	67.2	70	N	-	-	1.4	Y	N	N
N4814	21	80.6	Area 48	-	57.2	65.5	59.5	50.7	19.2	57.0	0.0	61.8	67.4	70	N	-	-	1.3	Y	N	N
N4814	22	83.4	Area 48	-	57.2	65.9	59.6	50.8	19.3	57.1	0.0	61.9	67.7	70	N	-	-	1.3	Y	N	N
N4814	23	86.1	Area 48	-	57.2	66.1	59.7	50.9	19.2	57.1	0.0	61.9	67.9	70	N	-	-	1.3	Y	N	N
N4814	24	88.9	Area 48	-	57.2	66.4	59.7	50.9	19.2	57.1	0.0	62.0	68.1	70	N	-	-	1.2	Y	N	N
N4814	25	91.6	Area 48	-	57.2	66.6	59.8	51.0	19.2	57.1	0.0	62.0	68.3	70	N	-	-	1.2	Y	N	N
N4814	26	94.4	Area 48	-	57.2	66.9	59.9	51.1	19.3	57.1	0.0	62.1	68.4	70	N	-	-	1.1	Y	N	N
N4814	27	97.1	Area 48	-	57.2	67.0	59.9	51.1	19.1	57.1	0.0	62.1	68.6	70	N	-	-	1.2	Y	N	N
N4814	28	99.9	Area 48	-	57.1	67.2	59.9	51.2	19.2	57.1	0.0	62.1	68.7	70	N	-	-	1.1	Y	N	N
N4814	29	102.6	Area 48	-	57.1	67.3	59.9	51.3	19.0	56.9	0.0	62.1	68.8	70	N	-	-	1.1	Y	N	N
N4814	30	105.4	Area 48	-	57.1	67.3	60.0	51.3	19.3	56.9	0.0	62.1	68.7	70	N	-	-	1.0	Y	N	N
N4814	31	108.1	Area 48	-	57.1	67.4	60.0	51.5	19.2	57.0	0.0	62.1	68.8	70	N	-	-	1.0	Y	N	N
N4814	32	110.9	Area 48	-	57.0	67.5	60.1	51.6	18.9	57.1	0.0	62.2	68.9	70	N	-	-	1.0	Y	N	N
N4814	33	113.6	Area 48	-	57.0	67.6	60.1	51.7	19.0	57.6	0.0	62.4	69.0	70	N	-	-	1.0	Y	N	N
N4814	34	116.4	Area 48	-	57.0	67.7	60.1	51.8	19.3	57.8	0.0	62.5	69.1	70	N	-	-	1.0	Y	N	N
N4814	35	119.1	Area 48	-	57.0	67.7	60.1	52.0	19.4	57.6	0.0	62.4	69.1	70	N	-	-	1.0	Y	N	N
N4814	36	121.9	Area 48	-	56.9	67.8	60.1	52.2	19.8	58.0	0.0	62.6	69.2	70	N	-	-	1.1	Y	N	N
N4814	37	124.6	Area 48	-	56.9	67.9	60.1	52.3	20.3	58.0	0.0	62.6	69.3	70	N	-	-	1.1	Y	N	N
N4814	38	127.4	Area 48	-	56.9	68.0	60.1	52.5	20.7	58.0	0.0	62.6	69.3	70	N	-	-	1.0	Y	N	N
N4814	39	130.1	Area 48	-	56.9	68.1	60.1	52.8	21.5	58.0	0.0	62.7	69.4	70	N	-	-	1.0	Y	N	N
N4814	40	132.9	Area 48	-	56.9	68.3	60.1	53.0	21.9	58.2	0.0	62.8	69.6	70	N	-	-	1.0	Y	N	N
N4815	1	25.6	Area 48	-	17.1	46.9	39.9	31.3	19.7	52.5	0.0	52.8	53.8	70	N	-	-	6.9	Y	N	N
N4815	2	28.4	Area 48	-	17.2	47.4	41.3	31.6	19.7	52.5	0.0	52.9	54.0	70	N	-	-	6.6	Y	N	N
N4815	3	31.1	Area 48	-	17.2	48.0	42.6	32.1	19.7	52.5	0.0	53.0	54.2	70	N	-	-	6.2	Y	N	N
N4815	4	33.9	Area 48	-	17.2	48.5	44.0	32.5	19.7	52.6	0.0	53.2	54.4	70	N	-	-	5.9	Y	N	N
N4815	5	36.6	Area 48	-	17.2	49.0	45.4	33.0	19.7	52.6	0.0	53.4	54.7	70	N	-	-	5.7	Y	N	N
N4815	6	39.4	Area 48	-	17.2	49.4	47.1	33.5	19.7	52.6	0.0	53.7	55.1	70	N	-	-	5.7	Y	N	N
N4815	7	42.1	Area 48	-	17.0	49.8	48.8	34.1	19.7	52.5	0.0	54.1	55.5	70	N	-	-	5.7	Y	N	N
N4815	8	44.9	Area 48	-	17.2	50.2	49.9	34.7	19.7	52.5	0.0	54.5	55.9	70	N	-	-	5.7	Y	N	N
N4815	9	47.6	Area 48	-	17.2	50.6	50.4	35.5	19.7	52.5	0.0	54.7	56.1	70	N	-	-	5.5	Y	N	N
N4815	10	50.4	Area 48	-	17.3	50.9	50.6	36.3	19.7	52.5	0.0	54.7	56.3	70	N	-	-	5.4	Y	N	N
N4815	11	53.1	Area 48	-	17.4	51.3	50.7	37.3	19.7	52.5	0.0	54.8	56.4	70	N	-	-	5.1	Y	N	N
N4815	12	55.9	Area 48	-	17.4	51.6	51.0	38.3	19.7	52.5	0.0	54.9	56.6	70	N	-	-	5.0	Y	N	N
N4815	13	58.6	Area 48	-	17.4	51.9	51.1	39.6	19.7	52.6	0.0	55.0	56.7	70	N	-	-	4.8	Y	N	N
N4815	14	61.4	Area 48	-	17.5	52.1	51.2	41.6	19.6	52.5	0.0	55.1	56.9	70	N	-	-	4.8	Y	N	N
N4815	15	64.1	Area 48	-	17.5	52.4	51.4	43.2	19.6	52.5	0.0	55.3	57.1	70	N	-	-	4.7	Y	N	N
N4815	16	66.9	Area 48	-	17.5	52.7	51.7	44.6	19.6	52.5	0.0	55.5	57.3	70	N	-	-	4.6	Y	N	N
N4815	17	69.6	Area 48	-	17.5	53.0	51.9	45.5	19.6	52.5	0.0	55.7	57.5	70	N	-	-	4.5	Y	N	N
N4815	18	72.4	Area 48	-	17.6	53.2	52.2	46.0	19.6	52.4	0.0	55.8	57.7	70	N	-	-	4.5	Y	N	N
N4815	19	75.1	Area 48	-	17.6	53.4	52.4	46.7	19.6	52.5	0.0	56.0	57.9	70	N	-	-	4.5	Y	N	N
N4815	20	77.9	Area 48	-	17.7	53.6	52.7	47.1	19.5	52.5	0.0	56.2	58.1	70	N	-	-	4.5	Y	N	N
N4815	21	80.6	Area 48	-	17.7	53.9	52.9	47.4	19.5	52.5	0.0	56.3	58.3	70	N	-	-	4.4	Y	N	N
N4815	22	83.4	Area 48	-	17.7	54.2	53.1	47.6	19.5	52.4	0.0	56.4	58.4	70	N	-	-	4.2	Y	N	N
N4815	23	86.1	Area 48	-	17.7	54.4	53.2	47.9	19.5	52.4	0.0	56.5	58.6	70	N	-	-	4.2	Y	N	N
N4815	24	88.9	Area 48	-	17.7	54.6	53.3	48.0	19.5	52.4	0.0	56.6	58.7	70	N	-	-	4.1	Y	N	N
N4815	25	91.6	Area 48	-	17.7	54.9	53.5	48.2	19.5	52.4	0.0	56.7	58.9	70	N	-	-	4.0	Y	N	N
N4815	26	94.4	Area 48	-	17.8	55.2	53.6	48.6	19.6	52.4	0.0	56.7	59.1	70	N	-	-	3.9	Y	N	N
N4815	27	97.1	Area 48	-	17.8	55.5	53.7	48.8	19.7	52.4	0.0	56.8	59.2	70	N	-	-	3.7	Y	N	N
N4815	28	99.9	Area 48	-	17.8	55.7	53.9	48.9	19.5	52.3	0.0	56.9	59.4	70	N	-	-	3.7	Y	N	N
N4815	29	102.6	Area 48	-	17.7	56.0	54.0	49.1	19.5	53.8	0.0	57.6	59.9	70	N	-	-	3.9	Y	N	N
N4815	30	105.4	Area 48	-	17.8	56.4	54.1	49.3	19.4	53.8	0.0	57.7	60.1	70	N	-	-	3.7	Y	N	N
N4815	31	108.1	Area 48	-	17.8	56.7	54.2	49.4	19.3	53.8	0.0	57.7	60.2	70	N	-	-	3.5	Y	N	N
N4815	32	110.9	Area 48	-	17.8	57.1	54.3	49.5	19.2	53.8	0.0	57.7	60.5	70	N	-	-	3.4	Y	N	N
N4815	33	113.6	Area 48	-	17.8	57.6	55.4	49.6	19.3	53.8	0.0	58.3	61.0	70	N	-	-	3.4	Y	N	N
N4815	34	116.4	Area 48	-	17.8	58.6	55.4	49.9	19.5	53.7	0.0	58.3	61.5	70	N	-	-	2.9	Y	N	N
N4815	35	119.1	Area 48	-	17.9	59.3	55.5	50.0	19.8	53.7	0.0	58.4	61.9	70	N	-	-	2.6	Y	N	N
N4816	1	25.6	Area 48	-	52.7	58.4	45.9	47.5	19.7	52.1	0.0	54.1	60.5	70	N	-	-	1.1	Y	N	N
N4816	2	28.4	Area 48	-	54.8	59.4	47.9	48.1	19.7	52.1	0.0	54.6	61.6	70	N	-	-	0.9	N	N	N
N4816	3	31.1	Area 48	-	56.7	60.0	49.6	48.2	19.7	52.2	0.0	55.1	62.5	70	N	-	-	0.8	N	N	N
N4816	4	33.9	Area 48	-	57.6	60.5	50.9	48.4	19.7	52.3	0.0	55.6	63.1	70	N	-	-	0.8	N	N	N
N4816	5	36.6	Area 48	-	58.1	60.9	52.3	48.7	19.7	52.4	0.0	56.2	63.6	70	N	-	-	0.9	N	N	N
N4816	6	39.4	Area 48	-	58.4	61.3	54.0	49.0	19.7	52.5	0.0	57.0	64.1	70	N	-	-	1.0	Y	N	N
N4816	7	42.1	Area 48	-	58.6	61.6	55.4	49.1	19.7	52.6	0.0	57.8	64.4	70	N	-	-	1.0	Y	N	N
N4816	8	44.9	Area 48	-	58.7	61.9	56.3	49.2	19.7	52.7	0.0	58.4	64.7	70	N	-	-	1.1	Y	N	N
N4816	9	47.6	Area 48	-	58.8	62.2	56.9	49.3	19.7	53.0	0.0	58.9	65.0	70	N	-	-	1.2	Y	N	N
N4816	10	50.4	Area 48	-	58.8	62.5	57.4	49.3	19.6	53.3	0.0	59.3	65.3	70	N	-	-	1.3	Y	N	N
N4816	11	53.1	Area 48	-	58.8	62.7	57.9	49.4	19.6	53.6	0.0	59.7	65.5	70	N	-	-	1.3	Y	N	N
N4816	12	55.9	Area 48	-	58.8	63.0	58.4	49.5	19.6	54.1	0.0	60.2	65.8	70	N	-	-	1.4	Y	N	N
N4816	13	58.6	Area 48	-	58.8	63.4	58.8	49.6	19.6	54.6	0.0	60.5	66.1	70	N	-	-	1.4	Y	N	N
N4816	14	61.4	Area 48	-	58.8	63.7	59.2	49.8	19.6	54.9	0.0	60.9	66.4	70	N	-	-	1.5	Y	N	N
N4816	15	64.1	Area 48	-	58.8	64.1	59.6	50.0	19.6	55.3	0.0	61.3	66.7	70	N	-	-	1.5	Y	N	N
N4816	16	66.9	Area 48	-	58.8	64.5	60.0	50.3	19.5	55.4	0.0	61.6	67.0	70	N	-	-	1.5	Y	N	N
N4816	17	69.6	Area 48	-	58.8	65.0	60.2	50.6	19.5	55.6	0.0	61.8	67.3	70	N	-	-	1.4	Y	N	N
N4816	18	72.4	Area 48	-	58.7	65.5	60.3	50.8	19.5	55.8	0.0	62.0	67.7	70	N	-	-	1.4	Y	N	N
N4816	19	75.1	Area 48	-	58.7	66.0	60.5	51.0	19.5	56.0	0.0	62.2	68.0	70	N	-	-	1.3	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N4816	20	77.9	Area 48	-	58.7	66.5	60.6	51.3	19.5	56.1	0.0	62.3	68.4	70	N	-	-	1.2	Y	N	N
N4816	21	80.6	Area 48	-	58.7	66.9	60.7	51.5	19.5	56.1	0.0	62.4	68.6	70	N	-	-	1.1	Y	N	N
N4816	22	83.4	Area 48	-	58.7	67.2	60.8	51.6	19.4	56.2	0.0	62.5	68.9	70	N	-	-	1.1	Y	N	N
N4816	23	86.1	Area 48	-	58.6	67.5	60.9	51.8	19.4	56.2	0.0	62.5	69.1	70	N	-	-	1.1	Y	N	N
N4816	24	88.9	Area 48	-	58.6	67.8	60.9	52.0	19.4	56.3	0.0	62.6	69.3	70	N	-	-	1.0	Y	N	N
N4816	25	91.6	Area 48	-	58.6	68.0	60.9	52.1	19.6	56.2	0.0	62.6	69.5	70	N	-	-	1.0	Y	N	N
N4816	26	94.4	Area 48	-	58.6	68.2	61.0	52.2	19.5	56.3	0.0	62.7	69.6	70	N	-	-	0.9	N	N	N
N4816	27	97.1	Area 48	-	58.6	68.3	61.0	52.4	19.6	56.2	0.0	62.7	69.7	70	N	-	-	1.0	Y	N	N
N4816	28	99.9	Area 48	-	58.5	68.5	61.1	52.5	19.4	56.6	0.0	62.8	69.8	70	N	-	-	0.9	N	N	N
N4816	29	102.6	Area 48	-	58.5	68.6	61.1	52.6	19.4	57.0	0.0	62.9	70.0	70	N	-	-	1.0	Y	N	N
N4816	30	105.4	Area 48	-	58.5	68.7	61.1	52.8	19.4	57.0	0.0	63.0	70.0	70	N	-	-	0.9	N	N	N
N4816	31	108.1	Area 48	-	58.5	68.8	61.2	52.9	19.3	56.9	0.0	63.0	70.1	70	N	-	-	0.9	N	N	N
N4816	32	110.9	Area 48	-	58.5	68.9	61.2	53.1	19.2	56.9	0.0	63.0	70.2	70	N	-	-	0.9	N	N	N
N4816	33	113.6	Area 48	-	58.4	69.0	61.5	53.3	19.3	56.9	0.0	63.2	70.3	70	N	-	-	0.9	N	N	N
N4816	34	116.4	Area 48	-	58.4	69.1	61.5	53.5	19.5	56.9	0.0	63.2	70.4	70	N	-	-	0.9	N	N	N
N4816	35	119.1	Area 48	-	58.4	69.2	61.6	53.6	19.7	56.8	0.0	63.3	70.4	70	N	-	-	0.9	N	N	N
N4817	1	25.6	Area 48	-	58.8	58.1	45.5	46.3	0.0	38.4	0.0	49.3	61.7	70	N	-	-	0.2	N	N	N
N4817	2	28.4	Area 48	-	60.3	59.6	47.3	46.9	0.0	39.5	0.0	50.5	63.2	70	N	-	-	0.2	N	N	N
N4817	3	31.1	Area 48	-	62.2	60.4	48.9	47.2	0.0	40.3	0.0	51.5	64.6	70	N	-	-	0.2	N	N	N
N4817	4	33.9	Area 48	-	64.0	61.0	50.2	47.6	0.0	41.0	0.0	52.4	66.0	70	N	-	-	0.2	N	N	N
N4817	5	36.6	Area 48	-	65.2	61.4	51.6	48.3	0.0	41.7	0.0	53.6	66.9	70	N	-	-	0.2	N	N	N
N4817	6	39.4	Area 48	-	65.7	61.7	53.3	49.1	0.0	42.5	0.0	55.0	67.4	70	N	-	-	0.2	N	N	N
N4817	7	42.1	Area 48	-	65.9	62.0	54.7	49.6	0.0	43.3	0.0	56.1	67.7	70	N	-	-	0.3	N	N	N
N4817	8	44.9	Area 48	-	66.1	62.2	55.8	49.8	0.0	44.2	0.0	57.0	67.9	70	N	-	-	0.3	N	N	N
N4817	9	47.6	Area 48	-	66.1	62.5	56.5	50.0	0.0	45.1	0.0	57.6	68.1	70	N	-	-	0.4	N	N	N
N4817	10	50.4	Area 48	-	66.2	62.7	57.0	50.0	0.0	46.1	0.0	58.1	68.2	70	N	-	-	0.4	N	N	N
N4817	11	53.1	Area 48	-	66.2	63.0	57.4	50.1	0.0	47.5	0.0	58.5	68.3	70	N	-	-	0.4	N	N	N
N4817	12	55.9	Area 48	-	66.2	63.2	57.8	50.0	0.0	48.3	0.0	58.9	68.5	70	N	-	-	0.5	N	N	N
N4817	13	58.6	Area 48	-	66.2	63.5	58.3	50.0	0.0	49.3	0.0	59.4	68.6	70	N	-	-	0.5	N	N	N
N4817	14	61.4	Area 48	-	66.2	63.8	58.6	50.0	0.0	50.5	0.0	59.7	68.7	70	N	-	-	0.5	N	N	N
N4817	15	64.1	Area 48	-	66.2	64.1	59.0	50.0	0.0	51.2	0.0	60.1	68.9	70	N	-	-	0.6	N	N	N
N4817	16	66.9	Area 48	-	66.2	64.4	59.4	50.0	0.0	51.9	0.0	60.5	69.0	70	N	-	-	0.6	N	N	N
N4817	17	69.6	Area 48	-	66.2	64.8	59.7	50.0	0.0	52.3	0.0	60.8	69.2	70	N	-	-	0.6	N	N	N
N4817	18	72.4	Area 48	-	66.2	65.2	59.8	50.0	0.0	52.6	0.0	60.9	69.4	70	N	-	-	0.7	N	N	N
N4817	19	75.1	Area 48	-	66.1	65.6	60.0	50.0	0.0	53.1	0.0	61.1	69.6	70	N	-	-	0.7	N	N	N
N4817	20	77.9	Area 48	-	66.1	66.1	60.0	50.0	0.0	53.3	0.0	61.2	69.8	70	N	-	-	0.7	N	N	N
N4817	21	80.6	Area 48	-	66.2	66.5	60.1	50.1	0.0	53.6	0.0	61.3	70.0	70	N	-	-	0.6	N	N	N
N4817	22	83.4	Area 48	-	66.2	66.9	60.2	50.1	0.0	53.7	0.0	61.4	70.2	70	N	-	-	0.6	N	N	N
N4817	23	86.1	Area 48	-	66.2	67.2	60.2	50.0	0.0	53.8	0.0	61.5	70.3	70	N	-	-	0.6	N	N	N
N4817	24	88.9	Area 48	-	66.1	67.6	60.3	50.1	0.0	54.0	0.0	61.5	70.5	70	Y	-	-	0.6	N	N	N
N4817	25	91.6	Area 48	-	66.2	67.8	60.3	50.1	0.0	53.9	0.0	61.5	70.6	70	Y	-	-	0.5	N	N	N
N4817	26	94.4	Area 48	-	66.1	68.0	60.3	50.1	0.0	54.0	0.0	61.6	70.8	70	Y	-	-	0.6	N	N	N
N4817	27	97.1	Area 48	-	66.2	68.2	60.3	50.1	0.0	54.1	0.0	61.6	70.9	70	Y	-	-	0.6	N	N	N
N4817	28	99.9	Area 48	-	66.2	68.3	60.4	50.1	0.0	54.1	0.0	61.6	70.9	70	Y	-	-	0.5	N	N	N
N4817	29	102.6	Area 48	-	66.1	68.5	60.4	50.2	0.0	54.1	0.0	61.6	71.0	70	Y	-	-	0.5	N	N	N
N4817	30	105.4	Area 48	-	66.1	68.6	60.4	50.3	0.0	54.1	0.0	61.6	71.1	70	Y	-	-	0.6	N	N	N
N4817	31	108.1	Area 48	-	66.1	68.7	60.4	50.3	0.0	54.1	0.0	61.6	71.1	70	Y	-	-	0.5	N	N	N
N4817	32	110.9	Area 48	-	66.1	68.7	60.4	50.4	0.0	54.0	0.0	61.6	71.1	70	Y	-	-	0.5	N	N	N
N4817	33	113.6	Area 48	-	66.1	68.8	60.4	50.5	0.0	54.1	0.0	61.6	71.2	70	Y	-	-	0.5	N	N	N
N4817	34	116.4	Area 48	-	66.1	68.9	60.4	50.6	0.0	54.1	0.0	61.6	71.2	70	Y	-	-	0.5	N	N	N
N4817	35	119.1	Area 48	-	66.1	68.9	60.4	50.7	0.0	54.0	0.0	61.6	71.2	70	Y	-	-	0.5	N	N	N
N4818	1	25.6	Area 48	-	57.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.2	70	N	-	-	0.0	N	N	N
N4818	2	28.4	Area 48	-	57.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.7	70	N	-	-	0.0	N	N	N
N4818	3	31.1	Area 48	-	58.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.5	70	N	-	-	0.0	N	N	N
N4818	4	33.9	Area 48	-	60.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.3	70	N	-	-	0.0	N	N	N
N4818	5	36.6	Area 48	-	61.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.8	70	N	-	-	0.0	N	N	N
N4818	6	39.4	Area 48	-	62.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.3	70	N	-	-	0.0	N	N	N
N4818	7	42.1	Area 48	-	62.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.6	70	N	-	-	0.0	N	N	N
N4818	8	44.9	Area 48	-	62.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.8	70	N	-	-	0.0	N	N	N
N4818	9	47.6	Area 48	-	62.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.8	70	N	-	-	0.0	N	N	N
N4818	10	50.4	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	11	53.1	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	12	55.9	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	13	58.6	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	14	61.4	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	15	64.1	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	16	66.9	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	17	69.6	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	18	72.4	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	19	75.1	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	20	77.9	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	21	80.6	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	22	83.4	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	23	86.1	Area 48	-	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	70	N	-	-	0.0	N	N	N
N4818	24	88.9	Area 48	-	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	70	N	-	-	0.0	N	N	N
N4818	25	91.6	Area 48	-	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	70	N	-	-	0.0	N	N	N
N4818	26	94.4	Area 48	-	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	70	N	-	-	0.0	N	N	N
N4818	27	97.1	Area 48	-	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	70	N	-	-	0.0	N	N	N
N4818	28	99.9	Area 48	-	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	70	N	-	-	0.0	N	N	N
N4818	29	102.6	Area 48	-	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	70	N	-	-	0.0	N	N	N
N4818	30	105.4	Area 48	-	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	70	N	-	-	0.0	N	N	N
N4818	31	108.1	Area 48	-	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	70	N	-	-	0.0	N	N	N
N4818	32	110.9	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	33	113.6	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4818	34	116.4	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]												
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							dB (A)									C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
N4818	35	119.1	Area 48	-	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	70	N	-	-	0.0	N	N	N
N4819	1	25.6	Area 48	-	58.7	54.2	43.7	46.4	0.0	27.3	0.0	48.3	60.3	70	N	-	-	0.3	N	N	N
N4819	2	28.4	Area 48	-	59.4	55.4	44.9	46.4	0.0	27.9	0.0	48.8	61.1	70	N	-	-	0.2	N	N	N
N4819	3	31.1	Area 48	-	60.7	57.4	46.2	46.5	0.0	28.4	0.0	49.4	62.6	70	N	-	-	0.2	N	N	N
N4819	4	33.9	Area 48	-	62.7	59.9	47.7	46.7	0.0	28.9	0.0	50.2	64.7	70	N	-	-	0.2	N	N	N
N4819	5	36.6	Area 48	-	64.2	60.7	49.4	47.0	0.0	29.4	0.0	51.4	65.9	70	N	-	-	0.1	N	N	N
N4819	6	39.4	Area 48	-	64.8	61.1	51.4	47.3	0.0	29.9	0.0	52.8	66.5	70	N	-	-	0.2	N	N	N
N4819	7	42.1	Area 48	-	65.1	61.4	52.9	47.7	0.0	30.4	0.0	54.0	66.9	70	N	-	-	0.3	N	N	N
N4819	8	44.9	Area 48	-	65.3	61.6	54.2	48.0	0.0	31.0	0.0	55.1	67.1	70	N	-	-	0.3	N	N	N
N4819	9	47.6	Area 48	-	65.3	61.8	55.0	48.3	0.0	31.6	0.0	55.9	67.3	70	N	-	-	0.4	N	N	N
N4819	10	50.4	Area 48	-	65.4	62.0	55.6	48.4	0.0	32.3	0.0	56.4	67.4	70	N	-	-	0.4	N	N	N
N4819	11	53.1	Area 48	-	65.4	62.2	56.1	48.5	0.0	32.9	0.0	56.8	67.5	70	N	-	-	0.4	N	N	N
N4819	12	55.9	Area 48	-	65.4	62.4	56.5	48.5	0.0	33.7	0.0	57.2	67.6	70	N	-	-	0.4	N	N	N
N4819	13	58.6	Area 48	-	65.4	62.6	56.9	48.5	0.0	34.6	0.0	57.5	67.7	70	N	-	-	0.5	N	N	N
N4819	14	61.4	Area 48	-	65.4	62.8	57.3	48.5	0.0	35.4	0.0	57.9	67.8	70	N	-	-	0.5	N	N	N
N4819	15	64.1	Area 48	-	65.4	63.0	57.6	48.5	0.0	36.2	0.0	58.1	67.9	70	N	-	-	0.5	N	N	N
N4819	16	66.9	Area 48	-	65.4	63.3	57.9	48.5	0.0	37.1	0.0	58.4	68.0	70	N	-	-	0.5	N	N	N
N4819	17	69.6	Area 48	-	65.4	63.6	58.3	48.4	0.0	38.1	0.0	58.8	68.1	70	N	-	-	0.5	N	N	N
N4819	18	72.4	Area 48	-	65.4	63.8	58.6	48.5	0.0	39.7	0.0	59.0	68.3	70	N	-	-	0.6	N	N	N
N4819	19	75.1	Area 48	-	65.4	64.2	58.8	48.5	0.0	40.3	0.0	59.2	68.4	70	N	-	-	0.5	N	N	N
N4819	20	77.9	Area 48	-	65.4	64.4	58.9	48.4	0.0	41.2	0.0	59.4	68.5	70	N	-	-	0.6	N	N	N
N4819	21	80.6	Area 48	-	65.4	64.8	59.0	48.5	0.0	42.2	0.0	59.4	68.7	70	N	-	-	0.6	N	N	N
N4819	22	83.4	Area 48	-	65.4	65.1	59.1	48.4	0.0	43.0	0.0	59.5	68.8	70	N	-	-	0.5	N	N	N
N4819	23	86.1	Area 48	-	65.4	65.5	59.2	48.4	0.0	43.5	0.0	59.6	69.0	70	N	-	-	0.5	N	N	N
N4819	24	88.9	Area 48	-	65.4	65.8	59.2	48.5	0.0	43.9	0.0	59.6	69.1	70	N	-	-	0.5	N	N	N
N4819	25	91.6	Area 48	-	65.4	66.1	59.2	48.5	0.0	44.0	0.0	59.7	69.3	70	N	-	-	0.5	N	N	N
N4819	26	94.4	Area 48	-	65.4	66.3	59.2	48.5	0.0	44.3	0.0	59.7	69.4	70	N	-	-	0.5	N	N	N
N4819	27	97.1	Area 48	-	65.4	66.6	59.2	48.4	0.0	44.4	0.0	59.7	69.5	70	N	-	-	0.4	N	N	N
N4819	28	99.9	Area 48	-	65.4	66.8	59.3	48.4	0.0	44.5	0.0	59.8	69.7	70	N	-	-	0.5	N	N	N
N4819	29	102.6	Area 48	-	65.4	67.0	59.3	48.4	0.0	44.5	0.0	59.7	69.8	70	N	-	-	0.5	N	N	N
N4819	30	105.4	Area 48	-	65.4	67.2	59.2	48.5	0.0	44.5	0.0	59.7	69.8	70	N	-	-	0.4	N	N	N
N4819	31	108.1	Area 48	-	65.4	67.3	59.2	48.5	0.0	44.5	0.0	59.7	69.9	70	N	-	-	0.4	N	N	N
N4819	32	110.9	Area 48	-	65.4	67.4	59.3	48.5	0.0	44.7	0.0	59.8	70.0	70	N	-	-	0.5	N	N	N
N4819	33	113.6	Area 48	-	65.4	67.5	59.2	48.5	0.0	44.6	0.0	59.7	70.0	70	N	-	-	0.4	N	N	N
N4819	34	116.4	Area 48	-	65.4	67.5	59.2	48.6	0.0	44.6	0.0	59.7	70.0	70	N	-	-	0.4	N	N	N
N4819	35	119.1	Area 48	-	65.4	67.6	59.2	48.6	0.0	44.6	0.0	59.7	70.1	70	N	-	-	0.5	N	N	N
N4820	1	25.6	Area 48	-	60.1	53.5	45.6	43.2	0.0	37.7	0.0	48.0	61.2	70	N	-	-	0.2	N	N	N
N4820	2	28.4	Area 48	-	60.6	54.8	47.0	43.5	0.0	38.4	0.0	49.0	61.8	70	N	-	-	0.2	N	N	N
N4820	3	31.1	Area 48	-	61.5	57.2	48.4	43.9	0.0	39.1	0.0	50.0	63.1	70	N	-	-	0.2	N	N	N
N4820	4	33.9	Area 48	-	63.4	60.0	49.5	44.8	0.0	39.6	0.0	51.1	65.2	70	N	-	-	0.2	N	N	N
N4820	5	36.6	Area 48	-	64.7	60.9	50.9	46.5	0.0	40.1	0.0	52.5	66.4	70	N	-	-	0.2	N	N	N
N4820	6	39.4	Area 48	-	65.3	61.3	52.6	47.7	0.0	40.8	0.0	54.0	66.9	70	N	-	-	0.1	N	N	N
N4820	7	42.1	Area 48	-	65.5	61.6	53.8	48.5	0.0	41.5	0.0	55.1	67.3	70	N	-	-	0.3	N	N	N
N4820	8	44.9	Area 48	-	65.7	61.8	54.9	48.9	0.0	42.2	0.0	56.1	67.5	70	N	-	-	0.3	N	N	N
N4820	9	47.6	Area 48	-	65.8	62.0	55.7	49.1	0.0	42.9	0.0	56.8	67.7	70	N	-	-	0.4	N	N	N
N4820	10	50.4	Area 48	-	65.8	62.2	56.2	49.3	0.0	43.7	0.0	57.2	67.8	70	N	-	-	0.4	N	N	N
N4820	11	53.1	Area 48	-	65.8	62.4	56.7	49.3	0.0	44.6	0.0	57.6	67.9	70	N	-	-	0.5	N	N	N
N4820	12	55.9	Area 48	-	65.8	62.6	57.0	49.3	0.0	45.5	0.0	58.0	68.0	70	N	-	-	0.5	N	N	N
N4820	13	58.6	Area 48	-	65.8	62.8	57.3	49.3	0.0	46.9	0.0	58.3	68.1	70	N	-	-	0.5	N	N	N
N4820	14	61.4	Area 48	-	65.8	63.0	57.7	49.3	0.0	47.3	0.0	58.6	68.2	70	N	-	-	0.6	N	N	N
N4820	15	64.1	Area 48	-	65.8	63.3	57.9	49.3	0.0	48.3	0.0	58.9	68.3	70	N	-	-	0.6	N	N	N
N4820	16	66.9	Area 48	-	65.8	63.5	58.2	49.3	0.0	49.3	0.0	59.2	68.4	70	N	-	-	0.6	N	N	N
N4820	17	69.6	Area 48	-	65.8	63.8	58.6	49.3	0.0	49.9	0.0	59.6	68.5	70	N	-	-	0.6	N	N	N
N4820	18	72.4	Area 48	-	65.8	64.1	58.9	49.3	0.0	50.5	0.0	59.9	68.7	70	N	-	-	0.7	N	N	N
N4820	19	75.1	Area 48	-	65.8	64.4	59.1	49.3	0.0	51.1	0.0	60.1	68.8	70	N	-	-	0.6	N	N	N
N4820	20	77.9	Area 48	-	65.8	64.7	59.3	49.3	0.0	51.3	0.0	60.3	68.9	70	N	-	-	0.6	N	N	N
N4820	21	80.6	Area 48	-	65.8	65.0	59.4	49.3	0.0	51.6	0.0	60.4	69.1	70	N	-	-	0.7	N	N	N
N4820	22	83.4	Area 48	-	65.8	65.4	59.5	49.3	0.0	52.0	0.0	60.5	69.2	70	N	-	-	0.6	N	N	N
N4820	23	86.1	Area 48	-	65.8	65.8	59.6	49.3	0.0	52.2	0.0	60.6	69.4	70	N	-	-	0.6	N	N	N
N4820	24	88.9	Area 48	-	65.8	66.1	59.6	49.3	0.0	52.5	0.0	60.7	69.6	70	N	-	-	0.6	N	N	N
N4820	25	91.6	Area 48	-	65.8	66.5	59.7	49.3	0.0	52.7	0.0	60.8	69.8	70	N	-	-	0.6	N	N	N
N4820	26	94.4	Area 48	-	65.8	66.7	59.8	49.3	0.0	52.7	0.0	60.9	69.9	70	N	-	-	0.6	N	N	N
N4820	27	97.1	Area 48	-	65.8	67.0	59.8	49.3	0.0	52.9	0.0	60.9	70.0	70	N	-	-	0.5	N	N	N
N4820	28	99.9	Area 48	-	65.8	67.2	59.8	49.3	0.0	52.9	0.0	60.9	70.1	70	N	-	-	0.5	N	N	N
N4820	29	102.6	Area 48	-	65.8	67.5	59.8	49.3	0.0	53.1	0.0	61.0	70.3	70	N	-	-	0.6	N	N	N
N4820	30	105.4	Area 48	-	65.8	67.6	59.8	49.4	0.0	53.0	0.0	61.0	70.3	70	N	-	-	0.5	N	N	N
N4820	31	108.1	Area 48	-	65.8	67.7	59.8	49.4	0.0	53.0	0.0	61.0	70.4	70	N	-	-	0.5	N	N	N
N4820	32	110.9	Area 48	-	65.8	67.9	59.9	49.4	0.0	53.0	0.0	61.0	70.5	70	Y	-	-	0.5	N	N	N
N4820	33	113.6	Area 48	-	65.8	68.0	59.9	49.4	0.0	53.1	0.0	61.0	70.5	70	Y	-	-	0.5	N	N	N
N4820	34	116.4	Area 48	-	65.8	68.0	59.9	49.4	0.0	53.0	0.0	61.0	70.6	70	Y	-	-	0.6	N	N	N
N4820	35	119.1	Area 48	-	65.8	68.1	59.9	49.5	0.0	53.0	0.0	61.0	70.6	70	Y	-	-	0.5	N	N	N
N4821	1	25.6	Area 48	-	60.3	53.3	45.8	41.7	0.0	38.0	0.0	47.7	61.3	70	N	-	-	0.2	N	N	N
N4821	2	28.4	Area 48	-	60.7	54.7	47.3	42.1	0.0	38.6	0.0	48.8	61.9	70	N	-	-	0.2	N	N	N
N4821	3	31.1	Area 48	-	61.6	57.1	48.6	42.7	0.0	39.2	0.0	49.9	63.2	70	N	-	-	0.3	N	N	N
N4821	4	33.9	Area 48	-	63.4	60.0	49.7	44.0	0.0	39.7	0.0	51.1	65.2	70	N	-	-	0.2	N	N	N
N4821	5	36.6	Area 48	-	64.7	60.9	51.0	46.3	0.0	40.3	0.0	52.5	66.4	70	N	-	-	0.2	N	N	N
N4821	6	39.4	Area 48	-	65.3	61.3	52.7	47.7	0.0	40.9	0.0	54.1	67.0	70	N	-	-	0.2	N	N	N
N4821	7	42.1	Area 48	-	65.6	61.6	53.9	48.7	0.0	41.6	0.0	55.2	67.3	70	N	-	-	0.2	N	N	N
N4821	8	44.9	Area 48	-	65.7	61.9	55.0	49.2	0.0	42.2	0.0	56.2	67.5	70	N	-	-	0.3	N	N	N
N4821	9	47.6	Area 48	-	65.8	62.1	55.8	49.4	0.0	43.0	0.0	56.9	67.7	70	N	-	-	0.4	N	N	N
N4821	10	50.4	Area 48	-	65.8	62.3	56.3	49.5	0.0	43.7	0.0	57.3	67.8	70	N	-	-	0.4	N	N	N
N4821	11	53.1	Area 48	-	65.9	62.5	56.7	49.6	0.0	44.4	0.0	57.7	67.9	70	N	-	-	0.4	N	N	N
N4821	12	55.9	Area 48	-	65.9	62.7	57.1	49.6	0.0	45.4	0.0	58.0	68.0	70	N	-	-	0.4	N	N	N
N4821	13	58.6	Area 48	-	65.9	62.9	57.4	49.6	0.0	46.8	0.0	58.4	68.1	70	N	-	-	0.4	N	N	N
N4821	14	61.4	Area 48	-	65.9	63.1	57.7	49.6	0.0	47.1	0.0	58.6	68.2	70	N	-	-	0.5	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]												
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							dB (A)									C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
N4821	15	64.1	Area 48	-	65.9	63.3	58.0	49.6	0.0	48.1	0.0	59.0	68.3	70	N	-	-	0.5	N	N	N
N4821	16	66.9	Area 48	-	65.9	63.5	58.3	49.6	0.0	49.1	0.0	59.3	68.4	70	N	-	-	0.5	N	N	N
N4821	17	69.6	Area 48	-	65.9	63.8	58.6	49.6	0.0	49.8	0.0	59.6	68.5	70	N	-	-	0.5	N	N	N
N4821	18	72.4	Area 48	-	65.9	64.1	58.9	49.6	0.0	50.2	0.0	59.9	68.7	70	N	-	-	0.6	N	N	N
N4821	19	75.1	Area 48	-	65.9	64.3	59.1	49.6	0.0	50.8	0.0	60.1	68.8	70	N	-	-	0.6	N	N	N
N4821	20	77.9	Area 48	-	65.9	64.6	59.3	49.6	0.0	51.1	0.0	60.3	68.9	70	N	-	-	0.6	N	N	N
N4821	21	80.6	Area 48	-	65.9	65.0	59.4	49.6	0.0	51.5	0.0	60.5	69.1	70	N	-	-	0.6	N	N	N
N4821	22	83.4	Area 48	-	65.9	65.3	59.5	49.6	0.0	51.8	0.0	60.6	69.2	70	N	-	-	0.6	N	N	N
N4821	23	86.1	Area 48	-	65.9	65.7	59.6	49.6	0.0	52.2	0.0	60.7	69.4	70	N	-	-	0.6	N	N	N
N4821	24	88.9	Area 48	-	65.9	66.1	59.7	49.6	0.0	52.4	0.0	60.8	69.6	70	N	-	-	0.6	N	N	N
N4821	25	91.6	Area 48	-	65.9	66.4	59.7	49.6	0.0	52.5	0.0	60.8	69.7	70	N	-	-	0.5	N	N	N
N4821	26	94.4	Area 48	-	65.9	66.7	59.8	49.6	0.0	52.7	0.0	60.9	69.9	70	N	-	-	0.6	N	N	N
N4821	27	97.1	Area 48	-	65.9	67.0	59.8	49.6	0.0	52.9	0.0	61.0	70.0	70	N	-	-	0.5	N	N	N
N4821	28	99.9	Area 48	-	65.9	67.2	59.8	49.6	0.0	52.8	0.0	60.9	70.1	70	N	-	-	0.5	N	N	N
N4821	29	102.6	Area 48	-	65.9	67.4	59.9	49.6	0.0	52.9	0.0	61.0	70.3	70	N	-	-	0.6	N	N	N
N4821	30	105.4	Area 48	-	65.9	67.6	59.9	49.6	0.0	53.0	0.0	61.1	70.4	70	N	-	-	0.6	N	N	N
N4821	31	108.1	Area 48	-	65.8	67.7	59.9	49.7	0.0	53.0	0.0	61.0	70.4	70	N	-	-	0.5	N	N	N
N4821	32	110.9	Area 48	-	65.8	67.8	59.9	49.7	0.0	52.9	0.0	61.0	70.5	70	Y	-	-	0.6	N	N	N
N4821	33	113.6	Area 48	-	65.8	67.9	59.9	49.7	0.0	53.0	0.0	61.1	70.5	70	Y	-	-	0.5	N	N	N
N4821	34	116.4	Area 48	-	65.8	68.0	60.0	49.8	0.0	53.0	0.0	61.1	70.6	70	Y	-	-	0.6	N	N	N
N4821	35	119.1	Area 48	-	65.8	68.1	60.0	49.8	0.0	53.0	0.0	61.1	70.6	70	Y	-	-	0.5	N	N	N
N4822	1	25.6	Area 48	-	60.5	53.0	46.0	35.5	0.0	38.0	0.0	46.9	61.3	70	N	-	-	0.1	N	N	N
N4822	2	28.4	Area 48	-	60.9	54.5	47.3	37.2	0.0	38.6	0.0	48.2	62.0	70	N	-	-	0.2	N	N	N
N4822	3	31.1	Area 48	-	61.7	57.0	48.6	39.2	0.0	39.1	0.0	49.5	63.2	70	N	-	-	0.2	N	N	N
N4822	4	33.9	Area 48	-	63.5	59.9	49.8	41.9	0.0	39.6	0.0	50.8	65.2	70	N	-	-	0.1	N	N	N
N4822	5	36.6	Area 48	-	64.7	60.9	51.0	45.5	0.0	40.2	0.0	52.4	66.4	70	N	-	-	0.2	N	N	N
N4822	6	39.4	Area 48	-	65.3	61.3	52.6	47.5	0.0	40.8	0.0	54.0	67.0	70	N	-	-	0.2	N	N	N
N4822	7	42.1	Area 48	-	65.6	61.6	53.9	48.6	0.0	41.4	0.0	55.2	67.3	70	N	-	-	0.2	N	N	N
N4822	8	44.9	Area 48	-	65.7	61.8	55.0	49.2	0.0	42.0	0.0	56.2	67.5	70	N	-	-	0.3	N	N	N
N4822	9	47.6	Area 48	-	65.8	62.1	55.7	49.5	0.0	42.7	0.0	56.8	67.7	70	N	-	-	0.4	N	N	N
N4822	10	50.4	Area 48	-	65.8	62.3	56.3	49.6	0.0	43.5	0.0	57.3	67.8	70	N	-	-	0.4	N	N	N
N4822	11	53.1	Area 48	-	65.9	62.5	56.7	49.7	0.0	44.3	0.0	57.7	67.9	70	N	-	-	0.4	N	N	N
N4822	12	55.9	Area 48	-	65.9	62.7	57.0	49.7	0.0	45.1	0.0	58.0	68.0	70	N	-	-	0.4	N	N	N
N4822	13	58.6	Area 48	-	65.9	62.8	57.3	49.8	0.0	46.2	0.0	58.3	68.1	70	N	-	-	0.5	N	N	N
N4822	14	61.4	Area 48	-	65.9	63.0	57.6	49.7	0.0	46.7	0.0	58.6	68.2	70	N	-	-	0.5	N	N	N
N4822	15	64.1	Area 48	-	65.9	63.3	58.0	49.7	0.0	47.6	0.0	58.9	68.3	70	N	-	-	0.5	N	N	N
N4822	16	66.9	Area 48	-	65.9	63.5	58.2	49.7	0.0	48.6	0.0	59.2	68.4	70	N	-	-	0.5	N	N	N
N4822	17	69.6	Area 48	-	65.9	63.7	58.5	49.7	0.0	49.4	0.0	59.5	68.5	70	N	-	-	0.6	N	N	N
N4822	18	72.4	Area 48	-	65.9	64.0	58.8	49.7	0.0	50.0	0.0	59.8	68.6	70	N	-	-	0.5	N	N	N
N4822	19	75.1	Area 48	-	65.9	64.3	59.0	49.7	0.0	50.5	0.0	60.0	68.8	70	N	-	-	0.6	N	N	N
N4822	20	77.9	Area 48	-	65.9	64.5	59.2	49.7	0.0	50.8	0.0	60.2	68.9	70	N	-	-	0.6	N	N	N
N4822	21	80.6	Area 48	-	65.9	64.8	59.4	49.7	0.0	51.1	0.0	60.4	69.0	70	N	-	-	0.6	N	N	N
N4822	22	83.4	Area 48	-	65.9	65.2	59.5	49.7	0.0	51.5	0.0	60.5	69.2	70	N	-	-	0.6	N	N	N
N4822	23	86.1	Area 48	-	65.9	65.6	59.6	49.7	0.0	51.9	0.0	60.6	69.4	70	N	-	-	0.6	N	N	N
N4822	24	88.9	Area 48	-	65.9	65.9	59.6	49.7	0.0	52.2	0.0	60.7	69.5	70	N	-	-	0.6	N	N	N
N4822	25	91.6	Area 48	-	65.9	66.2	59.7	49.7	0.0	52.3	0.0	60.8	69.7	70	N	-	-	0.6	N	N	N
N4822	26	94.4	Area 48	-	65.9	66.5	59.7	49.7	0.0	52.5	0.0	60.8	69.8	70	N	-	-	0.6	N	N	N
N4822	27	97.1	Area 48	-	65.9	66.8	59.8	49.7	0.0	52.6	0.0	60.9	69.9	70	N	-	-	0.5	N	N	N
N4822	28	99.9	Area 48	-	65.9	67.1	59.8	49.7	0.0	52.7	0.0	60.9	70.1	70	N	-	-	0.5	N	N	N
N4822	29	102.6	Area 48	-	65.9	67.2	59.8	49.7	0.0	52.8	0.0	60.9	70.2	70	N	-	-	0.6	N	N	N
N4822	30	105.4	Area 48	-	65.9	67.5	59.9	49.7	0.0	52.8	0.0	61.0	70.3	70	N	-	-	0.5	N	N	N
N4822	31	108.1	Area 48	-	65.9	67.6	59.9	49.7	0.0	52.8	0.0	61.0	70.4	70	N	-	-	0.6	N	N	N
N4822	32	110.9	Area 48	-	65.8	67.7	59.9	49.7	0.0	52.9	0.0	61.0	70.4	70	N	-	-	0.5	N	N	N
N4822	33	113.6	Area 48	-	65.8	67.8	59.9	49.8	0.0	52.9	0.0	61.0	70.5	70	Y	-	-	0.6	N	N	N
N4822	34	116.4	Area 48	-	65.8	67.9	60.0	49.8	0.0	52.9	0.0	61.1	70.5	70	Y	-	-	0.5	N	N	N
N4822	35	119.1	Area 48	-	65.8	68.0	59.9	49.8	0.0	52.9	0.0	61.1	70.6	70	Y	-	-	0.6	N	N	N
N4823	1	24.1	Area 48	-	52.7	52.4	48.0	54.5	0.0	40.9	0.0	55.5	58.6	70	N	-	-	3.0	Y	N	N
N4823	2	26.9	Area 48	-	53.5	53.2	48.8	54.5	0.0	41.6	0.0	55.7	59.1	70	N	-	-	2.7	Y	N	N
N4823	3	29.6	Area 48	-	54.9	54.1	49.9	54.5	0.0	41.9	0.0	55.9	59.8	70	N	-	-	2.3	Y	N	N
N4823	4	32.4	Area 48	-	58.0	55.2	50.6	54.4	0.0	42.5	0.0	56.1	61.4	70	N	-	-	1.6	Y	N	N
N4823	5	35.1	Area 48	-	59.9	56.2	51.7	54.4	0.0	43.1	0.0	56.5	62.6	70	N	-	-	1.2	Y	N	N
N4823	6	37.9	Area 48	-	60.8	57.4	53.5	54.4	0.0	43.7	0.0	57.2	63.6	70	N	-	-	1.2	Y	N	N
N4823	7	40.6	Area 48	-	61.9	58.8	56.1	54.4	0.0	44.4	0.0	58.5	64.8	70	N	-	-	1.2	Y	N	N
N4823	8	43.4	Area 48	-	62.7	60.2	58.2	54.5	0.0	45.2	0.0	59.9	65.9	70	N	-	-	1.3	Y	N	N
N4823	9	46.1	Area 48	-	63.3	61.3	59.2	54.6	0.0	46.2	0.0	60.7	66.7	70	N	-	-	1.3	Y	N	N
N4823	10	48.9	Area 48	-	63.6	62.4	60.1	54.7	0.0	47.5	0.0	61.4	67.3	70	N	-	-	1.2	Y	N	N
N4823	11	51.6	Area 48	-	63.8	63.8	60.5	54.7	0.0	49.1	0.0	61.8	68.0	70	N	-	-	1.2	Y	N	N
N4823	12	54.4	Area 48	-	63.8	64.8	60.7	54.7	0.0	51.3	0.0	62.0	68.5	70	N	-	-	1.2	Y	N	N
N4823	13	57.1	Area 48	-	63.9	65.7	60.8	54.7	0.0	53.3	0.0	62.3	68.9	70	N	-	-	1.0	Y	N	N
N4823	14	59.9	Area 48	-	63.9	66.3	60.9	54.8	0.0	54.7	0.0	62.6	69.3	70	N	-	-	1.0	Y	N	N
N4823	15	62.6	Area 48	-	63.9	66.9	61.0	54.8	0.0	55.2	0.0	62.8	69.7	70	N	-	-	1.0	Y	N	N
N4823	16	65.4	Area 48	-	64.0	67.2	61.1	54.9	0.0	55.4	0.0	62.9	69.8	70	N	-	-	0.9	N	N	N
N4823	17	68.1	Area 48	-	64.0	67.5	61.2	55.1	0.0	55.6	0.0	63.0	70.0	70	N	-	-	0.9	N	N	N
N4823	18	70.9	Area 48	-	64.0	67.8	61.3	55.3	0.0	55.7	0.0	63.1	70.2	70	N	-	-	0.9	N	N	N
N4823	19	73.6	Area 48	-	64.0	68.0	61.3	55.6	0.0	55.7	0.0	63.2	70.4	70	N	-	-	0.9	N	N	N
N4823	20	76.4	Area 48	-	64.0	68.2	61.4	56.0	0.0	55.6	0.0	63.3	70.5	70	Y	-	-	0.9	N	N	N
N4823	21	79.1	Area 48	-	64.0	68.4	61.4	56.4	0.0	55.5	0.0	63.4	70.6	70	Y	-	-	0.9	N	N	N
N4823	22	81.9	Area 48	-	64.0	68.6	61.5	56.8	0.0	55.6	0.0	63.5	70.8	70	Y	-	-	0.9	N	N	N
N4823	23	84.6	Area 48	-	64.0	68.8	61.5	57.1	0.0	55.6	0.0	63.6	70.9	70	Y	-	-	0.9	N	N	N
N4823	24	87.4	Area 48	-	64.0	68.9	61.6	57.2	0.0	55.6	0.0	63.7	71.0	70	Y	-	-	0.9	N	N	N
N4823	25	90.1	Area 48	-	64.0	69.0	61.6	57.4	0.0	55.6	0.0	63.7	71.1	70	Y	-	-	0.9	N	N	N
N4823	26	92.9	Area 48	-	64.0	69.1	61.6	57.5	0.0	55.5	0.0	63.7	71.2	70	Y	-	-	0.9	N	N	N
N4823	27	95.6	Area 48	-	64.0	69.3	61.6	57.6	0.0	55.5	0.0	63.8	71.3	70	Y	-	-	0.9	N	N	N
N4823	28	98.4	Area 48	-	64.1	69.4	61.6	57.7	0.0	55.5	0.0	63.8	71.4	70	Y	-	-	0.9	N	N	N
N4823	29	101.1	Area 48	-	64.1	69.6	61.6	57.8	0.0	55.4	0.0	63.8	71.5	70	Y	-	-	0.8	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT													
							New Roads[2]											
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							dB (A)									C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
N4823	30	103.9	Area 48	-	64.1	69.7	61.6	57.9	0.0	55.5	0.0	63.8	71.6	70	Y	-	-	0.8	N	N	N
N4823	31	106.6	Area 48	-	64.1	69.8	61.6	57.9	0.0	55.4	0.0	63.8	71.6	70	Y	-	-	0.8	N	N	N
N4823	32	109.4	Area 48	-	64.1	69.9	61.6	57.9	0.0	55.4	0.0	63.8	71.7	70	Y	-	-	0.8	N	N	N
N4823	33	112.1	Area 48	-	64.2	70.0	61.6	57.9	0.0	55.4	0.0	63.8	71.8	70	Y	-	-	0.8	N	N	N
N4823	34	114.9	Area 48	-	64.2	70.1	61.6	57.9	0.0	55.4	0.0	63.8	71.8	70	Y	-	-	0.7	N	N	N
N4823	35	117.6	Area 48	-	64.2	70.2	61.5	57.9	0.0	55.4	0.0	63.8	71.9	70	Y	-	-	0.7	N	N	N
N4823	36	120.4	Area 48	-	64.2	70.3	61.5	57.9	0.0	55.4	0.0	63.8	72.0	70	Y	-	-	0.7	N	N	N
N4823	37	123.1	Area 48	-	64.3	70.4	61.5	57.8	0.0	55.3	0.0	63.7	72.0	70	Y	-	-	0.6	N	N	N
N4823	38	125.9	Area 48	-	64.3	70.5	61.5	57.8	0.0	55.4	0.0	63.7	72.1	70	Y	-	-	0.7	N	N	N
N4823	39	128.6	Area 48	-	64.3	70.5	61.5	57.8	0.0	55.4	0.0	63.7	72.1	70	Y	-	-	0.7	N	N	N
N4901	1	14.9	Area 48	-	59.7	48.0	0.0	44.4	0.0	0.0	0.0	44.4	60.1	65	N	-	-	0.1	N	N	N
N4901	2	17.9	Area 48	-	59.8	48.7	0.0	44.4	0.0	0.0	0.0	44.4	60.3	65	N	-	-	0.2	N	N	N
N4901	3	20.9	Area 48	-	60.0	49.5	0.0	44.4	0.0	0.0	0.0	44.4	60.5	65	N	-	-	0.1	N	N	N
N4901	4	23.9	Area 48	-	60.2	50.5	0.0	44.4	0.0	0.0	0.0	44.4	60.7	65	N	-	-	0.1	N	N	N
N4901	5	26.9	Area 48	-	60.5	51.5	0.0	44.3	0.0	0.0	0.0	44.3	61.1	65	N	-	-	0.1	N	N	N
N4901	6	29.9	Area 48	-	61.1	52.5	0.0	44.3	0.0	0.0	0.0	44.3	61.7	65	N	-	-	0.0	N	N	N
N4901	7	32.9	Area 48	-	61.7	53.6	0.0	44.3	0.0	0.0	0.0	44.3	62.4	65	N	-	-	0.1	N	N	N
N4901	8	35.9	Area 48	-	62.5	54.9	0.0	44.4	0.0	0.0	0.0	44.4	63.3	65	N	-	-	0.1	N	N	N
N4902	1	14.9	Area 48	-	0.0	53.0	46.5	61.4	23.0	46.5	0.0	61.6	62.2	65	N	-	-	9.2	Y	N	N
N4902	2	17.9	Area 48	-	0.0	53.7	48.2	61.4	23.0	46.7	0.0	61.7	62.3	65	N	-	-	8.6	Y	N	N
N4902	3	20.9	Area 48	-	0.0	54.5	50.1	61.3	23.0	47.1	0.0	61.8	62.5	65	N	-	-	8.0	Y	N	N
N4902	4	23.9	Area 48	-	0.0	55.1	51.7	61.3	23.1	47.4	0.0	61.9	62.7	65	N	-	-	7.6	Y	N	N
N4902	5	26.9	Area 48	-	0.0	55.8	52.8	61.2	23.1	47.8	0.0	61.9	62.9	65	N	-	-	7.1	Y	N	N
N4902	6	29.9	Area 48	-	0.0	56.5	53.4	61.0	23.2	48.2	0.0	61.9	63.0	65	N	-	-	6.5	Y	N	N
N4902	7	32.9	Area 48	-	0.0	57.1	53.8	60.9	23.2	48.6	0.0	61.9	63.1	65	N	-	-	6.0	Y	N	N
N4902	8	35.9	Area 48	-	0.0	57.7	54.4	60.8	23.2	48.9	0.0	61.9	63.3	65	N	-	-	5.6	Y	N	N
N4903	1	22.4	Area 48	-	33.2	59.5	51.1	55.5	29.2	52.2	0.0	58.1	61.9	65	N	-	-	2.4	Y	N	N
N4903	2	25.4	Area 48	-	33.2	59.6	51.5	55.7	30.2	52.8	0.0	58.5	62.1	65	N	-	-	2.5	Y	N	N
N4903	3	28.4	Area 48	-	33.2	59.6	52.0	56.0	31.3	53.5	0.0	58.9	62.3	65	N	-	-	2.7	Y	N	N
N4903	4	31.4	Area 48	-	33.2	59.7	52.4	56.2	32.5	54.2	0.0	59.3	62.5	65	N	-	-	2.8	Y	N	N
N4903	5	34.4	Area 48	-	33.2	59.7	53.0	56.2	33.8	55.1	0.0	59.7	62.7	65	N	-	-	3.0	Y	N	N
N4903	6	37.4	Area 48	-	33.2	59.8	53.7	56.2	35.4	56.0	0.0	60.2	63.1	65	N	-	-	3.3	Y	N	N
N4903	7	40.4	Area 48	-	33.2	59.9	54.7	56.3	36.8	57.1	0.0	61.0	63.5	65	N	-	-	3.6	Y	N	N
N4903	8	43.4	Area 48	-	33.2	60.0	55.4	56.4	38.5	58.2	0.0	61.6	63.9	65	N	-	-	3.9	Y	N	N
N4904	1	22.4	Area 48	-	43.5	28.8	50.1	50.4	38.5	54.8	0.0	57.2	57.3	65	N	-	-	13.7	Y	N	N
N4904	2	25.4	Area 48	-	43.5	29.6	51.0	51.0	39.5	55.5	0.0	57.9	58.1	65	N	-	-	14.4	Y	N	N
N4904	3	28.4	Area 48	-	43.6	30.6	51.8	51.7	40.6	56.3	0.0	58.7	58.8	65	N	-	-	15.0	Y	N	N
N4904	4	31.4	Area 48	-	43.7	31.6	52.5	52.5	41.9	57.1	0.0	59.5	59.6	65	N	-	-	15.6	Y	N	N
N4904	5	34.4	Area 48	-	43.8	32.8	53.2	53.4	43.2	57.9	0.0	60.3	60.4	65	N	-	-	16.3	Y	N	N
N4904	6	37.4	Area 48	-	43.9	34.2	54.1	54.3	44.8	58.9	0.0	61.2	61.3	65	N	-	-	17.0	Y	N	N
N4904	7	40.4	Area 48	-	44.0	35.6	54.7	54.9	45.9	59.9	0.0	62.1	62.2	65	N	-	-	17.6	Y	N	N
N4904	8	43.4	Area 48	-	44.4	37.2	54.9	55.6	46.8	61.0	0.0	63.0	63.0	65	N	-	-	17.8	Y	N	N
N4911	1	17.5	Area 48	-	55.6	56.0	41.6	47.9	0.0	33.1	0.0	48.9	59.3	65	N	-	-	0.5	N	N	N
N4912	1	17.5	Area 48	-	57.8	56.3	44.8	51.7	7.6	41.4	0.0	52.8	60.9	65	N	-	-	0.8	N	N	N
N4913	1	17.5	Area 48	-	54.5	56.9	44.1	51.0	9.8	41.9	0.0	52.2	59.7	70	N	-	-	0.8	N	N	N
N4913	2	22.0	Area 48	-	56.5	58.3	46.1	51.0	9.8	43.0	0.0	52.7	61.2	70	N	-	-	0.7	N	N	N
N4913	3	26.5	Area 48	-	59.2	59.9	48.4	51.0	9.8	44.0	0.0	53.4	63.1	70	N	-	-	0.5	N	N	N
N4914	1	17.5	Area 48	-	58.7	52.1	37.0	46.0	22.7	42.7	0.0	48.0	59.8	70	N	-	-	0.2	N	N	N
N4914	2	22.0	Area 48	-	58.9	53.3	38.7	46.0	22.9	43.2	0.0	48.4	60.2	70	N	-	-	0.2	N	N	N
N4914	3	26.5	Area 48	-	59.1	54.9	41.2	46.2	23.0	44.0	0.0	49.0	60.8	70	N	-	-	0.3	N	N	N
N4915	1	17.5	Area 48	-	16.5	49.1	45.0	53.3	22.4	43.6	0.0	54.3	55.5	70	N	-	-	6.4	Y	N	N
N4915	2	22.0	Area 48	-	16.6	50.0	46.6	53.3	22.5	43.9	0.0	54.6	55.9	70	N	-	-	5.9	Y	N	N
N4915	3	26.5	Area 48	-	16.4	51.1	47.7	53.3	22.5	44.3	0.0	54.8	56.3	70	N	-	-	5.2	Y	N	N
N5300	1	11.7	D2-2	-	0.0	0.0	61.1	57.6	55.5	0.0	0.0	63.5	63.5	70	N	-	-	60.5	Y	N	N
N5300	2	14.5	D2-2	-	0.0	0.0	61.8	58.0	55.6	0.0	0.0	64.0	64.0	70	N	-	-	61.0	Y	N	N
N5300	3	17.3	D2-2	-	0.0	0.0	62.5	58.3	55.6	0.0	0.0	64.5	64.5	70	N	-	-	61.5	Y	N	N
N5300	4	20.1	D2-2	-	0.0	0.0	63.1	58.5	55.6	0.0	0.0	64.9	64.9	70	N	-	-	61.9	Y	N	N
N5300	5	22.9	D2-2	-	0.0	0.0	63.7	58.6	55.6	0.0	0.0	65.4	65.4	70	N	-	-	62.4	Y	N	N
N5300	6	25.7	D2-2	-	0.0	0.0	64.1	58.7	55.6	0.0	0.0	65.7	65.7	70	N	-	-	62.7	Y	N	N
N5300	7	28.5	D2-2	-	0.0	0.0	64.6	58.7	55.6	0.0	0.0	66.0	66.0	70	N	-	-	63.0	Y	N	N
N5300	8	31.3	D2-2	-	0.0	0.0	64.9	58.6	55.6	0.0	0.0	66.2	66.2	70	N	-	-	63.2	Y	N	N
N5300	9	34.1	D2-2	-	0.0	0.0	65.1	58.6	55.6	0.0	0.0	66.4	66.4	70	N	-	-	63.4	Y	N	N
N5300	10	36.9	D2-2	-	0.0	0.0	65.4	58.6	55.6	0.0	0.0	66.6	66.6	70	N	-	-	63.6	Y	N	N
N5300	11	39.7	D2-2	-	0.0	0.0	65.5	58.5	55.6	0.0	0.0	66.7	66.7	70	N	-	-	63.7	Y	N	N
N5300	12	42.5	D2-2	-	0.0	0.0	65.7	58.5	55.6	0.0	0.0	66.8	66.8	70	N	-	-	63.8	Y	N	N
N5300	13	45.3	D2-2	-	0.0	0.0	65.8	58.4	55.6	0.0	0.0	66.8	66.8	70	N	-	-	63.8	Y	N	N
N5300	14	48.1	D2-2	-	0.0	0.0	65.9	58.4	55.6	0.0	0.0	66.9	66.9	70	N	-	-	63.9	Y	N	N
N5300	15	50.9	D2-2	-	0.0	0.0	65.9	58.3	55.5	0.0	0.0	66.9	66.9	70	N	-	-	63.9	Y	N	N
N5300	16	53.7	D2-2	-	0.0	0.0	66.0	58.2	55.5	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
N5300	17	56.5	D2-2	-	0.0	0.0	66.0	58.2	55.5	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
N5300	18	59.3	D2-2	-	0.0	0.0	66.0	58.1	55.5	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
N5300	19	62.1	D2-2	-	0.0	0.0	66.1	58.1	55.4	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
N5300	20	64.9	D2-2	-	0.0	0.0	66.0	58.0	55.4	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
N5300	21	67.7	D2-2	-	0.0	0.0	66.0	58.0	55.4	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
N5300	22	70.5	D2-2	-	0.0	0.0	66.1	57.9	55.4	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
N5300	23	73.3	D2-2	-	0.0	0.0	66.0	57.8	55.4	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
N5300	24	76.1	D2-2	-	0.0	0.0	66.0	57.8	55.3	0.0	0.0	66.9	66.9	70	N	-	-	63.9	Y	N	N
N5300	25	78.9	D2-2	-	0.0	0.0	66.0	57.7	55.3	0.0	0.0	66.9	66.9	70	N	-	-	63.9	Y	N	N
N5301	1	11.7	D2-2	-	37.1	0.0	0.0	0.0	65.0	0.0	0.0	65.0	65.0	70	N	-	-	27.9	Y	N	N
N5301	2	14.5	D2-2	-	39.4	0.0	0.0	0.0	64.9	0.0	0.0	64.9	64.9	70	N	-	-	25.5	Y	N	N
N5301	3	17.3	D2-2	-	41.6	0.0	0.0	0.0	64.9	0.0	0.0	64.9	65.0	70	N	-	-	23.4	Y	N	N
N5301	4	20.1	D2-2	-	42.4	0.0	0.0	0.0	64.9	0.0	0.0	64.9	64.9	70	N	-	-	22.5	Y	N	N
N5301	5	22.9	D2-2	-	42.8	0.0	0.0	0.0	64.9	0.0	0.0	64.9	64.9	70	N	-	-	22.1	Y	N	N
N5301	6	25.7	D2-2	-	43.1	0.0	0.0	0.0	64.8	0.0	0.0	64.8	64.8	70	N	-	-	21.7	Y	N	N
N5301	7	28.5	D2-2	-	43.2	0.0	0.0	0.0	64.7	0.0	0.0	64.7	64.8	70	N	-	-	21.6	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]								Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
N5301	8	31.3	D2-2	-	43.4	0.0	0.0	0.0	64.7	0.0	0.0	64.7	64.7	70	N	-	-	21.3	Y	N	N
N5301	9	34.1	D2-2	-	43.6	0.0	0.0	0.0	64.6	0.0	0.0	64.6	64.7	70	N	-	-	21.1	Y	N	N
N5301	10	36.9	D2-2	-	43.7	0.0	0.0	0.0	64.6	0.0	0.0	64.6	64.6	70	N	-	-	20.9	Y	N	N
N5301	11	39.7	D2-2	-	43.9	0.0	0.0	0.0	64.5	0.0	0.0	64.5	64.6	70	N	-	-	20.7	Y	N	N
N5301	12	42.5	D2-2	-	44.1	0.0	0.0	0.0	64.4	0.0	0.0	64.4	64.5	70	N	-	-	20.4	Y	N	N
N5301	13	45.3	D2-2	-	44.3	0.0	0.0	0.0	64.4	0.0	0.0	64.4	64.4	70	N	-	-	20.1	Y	N	N
N5301	14	48.1	D2-2	-	44.5	0.0	0.0	0.0	64.3	0.0	0.0	64.3	64.3	70	N	-	-	19.8	Y	N	N
N5301	15	50.9	D2-2	-	44.6	0.0	0.0	0.0	64.2	0.0	0.0	64.2	64.3	70	N	-	-	19.7	Y	N	N
N5301	16	53.7	D2-2	-	44.7	0.0	0.0	0.0	64.1	0.0	0.0	64.1	64.2	70	N	-	-	19.5	Y	N	N
N5301	17	56.5	D2-2	-	44.9	0.0	0.0	0.0	64.1	0.0	0.0	64.1	64.1	70	N	-	-	19.2	Y	N	N
N5301	18	59.3	D2-2	-	45.0	0.0	0.0	0.0	64.0	0.0	0.0	64.0	64.0	70	N	-	-	19.0	Y	N	N
N5301	19	62.1	D2-2	-	45.1	0.0	0.0	0.0	63.9	0.0	0.0	63.9	64.0	70	N	-	-	18.9	Y	N	N
N5301	20	64.9	D2-2	-	45.2	0.0	0.0	0.0	63.8	0.0	0.0	63.8	63.9	70	N	-	-	18.7	Y	N	N
N5301	21	67.7	D2-2	-	45.3	0.0	0.0	0.0	63.7	0.0	0.0	63.7	63.8	70	N	-	-	18.5	Y	N	N
N5301	22	70.5	D2-2	-	45.4	0.0	0.0	0.0	63.6	0.0	0.0	63.6	63.7	70	N	-	-	18.3	Y	N	N
N5301	23	73.3	D2-2	-	45.5	0.0	0.0	0.0	63.5	0.0	0.0	63.5	63.6	70	N	-	-	18.1	Y	N	N
N5301	24	76.1	D2-2	-	45.6	0.0	0.0	0.0	63.4	0.0	0.0	63.4	63.5	70	N	-	-	17.9	Y	N	N
N5301	25	78.9	D2-2	-	45.6	0.0	0.0	0.0	63.4	0.0	0.0	63.4	63.4	70	N	-	-	17.8	Y	N	N
N5302	1	11.7	D2-2	-	30.2	0.0	0.0	0.0	67.5	0.0	0.0	67.5	67.5	70	N	-	-	37.3	Y	N	N
N5302	2	14.5	D2-2	-	30.2	0.0	0.0	0.0	67.4	0.0	0.0	67.4	67.4	70	N	-	-	37.2	Y	N	N
N5302	3	17.3	D2-2	-	30.2	0.0	0.0	0.0	67.3	0.0	0.0	67.3	67.3	70	N	-	-	37.1	Y	N	N
N5302	4	20.1	D2-2	-	30.2	0.0	0.0	0.0	67.2	0.0	0.0	67.2	67.2	70	N	-	-	37.0	Y	N	N
N5302	5	22.9	D2-2	-	30.2	0.0	0.0	0.0	67.1	0.0	0.0	67.1	67.1	70	N	-	-	36.9	Y	N	N
N5302	6	25.7	D2-2	-	30.2	0.0	0.0	0.0	66.9	0.0	0.0	66.9	66.9	70	N	-	-	36.7	Y	N	N
N5302	7	28.5	D2-2	-	30.2	0.0	0.0	0.0	66.8	0.0	0.0	66.8	66.8	70	N	-	-	36.6	Y	N	N
N5302	8	31.3	D2-2	-	30.2	0.0	0.0	0.0	66.6	0.0	0.0	66.6	66.6	70	N	-	-	36.4	Y	N	N
N5302	9	34.1	D2-2	-	30.1	0.0	0.0	0.0	66.4	0.0	0.0	66.4	66.5	70	N	-	-	36.4	Y	N	N
N5302	10	36.9	D2-2	-	30.1	0.0	0.0	0.0	66.3	0.0	0.0	66.3	66.3	70	N	-	-	36.2	Y	N	N
N5302	11	39.7	D2-2	-	30.1	0.0	0.0	0.0	66.1	0.0	0.0	66.1	66.1	70	N	-	-	36.0	Y	N	N
N5302	12	42.5	D2-2	-	30.1	0.0	0.0	0.0	65.9	0.0	0.0	65.9	65.9	70	N	-	-	35.8	Y	N	N
N5302	13	45.3	D2-2	-	30.0	0.0	0.0	0.0	65.7	0.0	0.0	65.7	65.7	70	N	-	-	35.7	Y	N	N
N5302	14	48.1	D2-2	-	30.0	0.0	0.0	0.0	65.6	0.0	0.0	65.6	65.6	70	N	-	-	35.6	Y	N	N
N5302	15	50.9	D2-2	-	30.0	0.0	0.0	0.0	65.4	0.0	0.0	65.4	65.4	70	N	-	-	35.4	Y	N	N
N5302	16	53.7	D2-2	-	30.0	0.0	0.0	0.0	65.2	0.0	0.0	65.2	65.2	70	N	-	-	35.2	Y	N	N
N5302	17	56.5	D2-2	-	30.0	0.0	0.0	0.0	65.1	0.0	0.0	65.1	65.1	70	N	-	-	35.1	Y	N	N
N5302	18	59.3	D2-2	-	29.9	0.0	0.0	0.0	65.0	0.0	0.0	65.0	65.0	70	N	-	-	35.1	Y	N	N
N5302	19	62.1	D2-2	-	29.9	0.0	0.0	0.0	64.8	0.0	0.0	64.8	64.8	70	N	-	-	34.9	Y	N	N
N5302	20	64.9	D2-2	-	29.8	0.0	0.0	0.0	64.6	0.0	0.0	64.6	64.6	70	N	-	-	34.8	Y	N	N
N5302	21	67.7	D2-2	-	29.8	0.0	0.0	0.0	64.5	0.0	0.0	64.5	64.5	70	N	-	-	34.7	Y	N	N
N5302	22	70.5	D2-2	-	29.8	0.0	0.0	0.0	64.3	0.0	0.0	64.3	64.3	70	N	-	-	34.5	Y	N	N
N5302	23	73.3	D2-2	-	29.7	0.0	0.0	0.0	64.2	0.0	0.0	64.2	64.2	70	N	-	-	34.5	Y	N	N
N5302	24	76.1	D2-2	-	29.7	0.0	0.0	0.0	64.1	0.0	0.0	64.1	64.1	70	N	-	-	34.4	Y	N	N
N5302	25	78.9	D2-2	-	29.7	0.0	0.0	0.0	64.0	0.0	0.0	64.0	64.0	70	N	-	-	34.3	Y	N	N
N5303	1	11.7	D2-2	-	0.0	0.0	61.4	61.0	60.1	0.0	0.0	65.6	65.6	70	N	-	-	62.6	Y	N	N
N5303	2	14.5	D2-2	-	0.0	0.0	62.2	61.1	60.1	0.0	0.0	66.0	66.0	70	N	-	-	63.0	Y	N	N
N5303	3	17.3	D2-2	-	0.0	0.0	62.9	61.0	60.2	0.0	0.0	66.3	66.3	70	N	-	-	63.3	Y	N	N
N5303	4	20.1	D2-2	-	0.0	0.0	63.5	61.0	60.2	0.0	0.0	66.6	66.6	70	N	-	-	63.6	Y	N	N
N5303	5	22.9	D2-2	-	0.0	0.0	64.0	60.9	60.2	0.0	0.0	66.8	66.8	70	N	-	-	63.8	Y	N	N
N5303	6	25.7	D2-2	-	0.0	0.0	64.4	60.9	60.2	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
N5303	7	28.5	D2-2	-	0.0	0.0	64.8	60.8	60.2	0.0	0.0	67.2	67.2	70	N	-	-	64.2	Y	N	N
N5303	8	31.3	D2-2	-	0.0	0.0	65.0	60.8	60.1	0.0	0.0	67.3	67.3	70	N	-	-	64.3	Y	N	N
N5303	9	34.1	D2-2	-	0.0	0.0	65.2	60.7	60.1	0.0	0.0	67.4	67.4	70	N	-	-	64.4	Y	N	N
N5303	10	36.9	D2-2	-	0.0	0.0	65.4	60.6	60.1	0.0	0.0	67.5	67.5	70	N	-	-	64.5	Y	N	N
N5303	11	39.7	D2-2	-	0.0	0.0	65.5	60.6	60.1	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
N5303	12	42.5	D2-2	-	0.0	0.0	65.6	60.5	60.0	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
N5303	13	45.3	D2-2	-	0.0	0.0	65.6	60.5	60.0	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
N5303	14	48.1	D2-2	-	0.0	0.0	65.8	60.4	60.0	0.0	0.0	67.7	67.7	70	N	-	-	64.7	Y	N	N
N5303	15	50.9	D2-2	-	0.0	0.0	65.7	60.4	59.9	0.0	0.0	67.7	67.7	70	N	-	-	64.7	Y	N	N
N5303	16	53.7	D2-2	-	0.0	0.0	65.8	60.3	59.9	0.0	0.0	67.7	67.7	70	N	-	-	64.7	Y	N	N
N5303	17	56.5	D2-2	-	0.0	0.0	65.8	60.3	59.9	0.0	0.0	67.7	67.7	70	N	-	-	64.7	Y	N	N
N5303	18	59.3	D2-2	-	0.0	0.0	65.8	60.2	59.8	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
N5303	19	62.1	D2-2	-	0.0	0.0	65.8	60.2	59.8	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
N5303	20	64.9	D2-2	-	0.0	0.0	65.8	60.1	59.7	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
N5303	21	67.7	D2-2	-	0.0	0.0	65.7	60.1	59.7	0.0	0.0	67.5	67.5	70	N	-	-	64.5	Y	N	N
N5303	22	70.5	D2-2	-	0.0	0.0	65.7	60.0	59.7	0.0	0.0	67.5	67.5	70	N	-	-	64.5	Y	N	N
N5303	23	73.3	D2-2	-	0.0	0.0	65.7	60.0	59.6	0.0	0.0	67.5	67.5	70	N	-	-	64.5	Y	N	N
N5303	24	76.1	D2-2	-	0.0	0.0	65.7	59.9	59.6	0.0	0.0	67.5	67.5	70	N	-	-	64.5	Y	N	N
N5303	25	78.9	D2-2	-	0.0	0.0	65.6	59.9	59.5	0.0	0.0	67.4	67.4	70	N	-	-	64.4	Y	N	N
N5304	1	11.7	D2-2	-	42.9	0.0	0.0	0.0	67.1	0.0	0.0	67.1	67.1	70	N	-	-	24.2	Y	N	N
N5304	2	14.5	D2-2	-	51.4	0.0	0.0	0.0	67.1	0.0	0.0	67.1	67.2	70	N	-	-	15.8	Y	N	N
N5304	3	17.3	D2-2	-	53.6	0.0	0.0	0.0	67.0	0.0	0.0	67.0	67.2	70	N	-	-	13.6	Y	N	N
N5304	4	20.1	D2-2	-	53.7	0.0	0.0	0.0	67.1	0.0	0.0	67.1	67.3	70	N	-	-	13.6	Y	N	N
N5304	5	22.9	D2-2	-	53.7	0.0	0.0	0.0	67.3	0.0	0.0	67.3	67.5	70	N	-	-	13.8	Y	N	N
N5304	6	25.7	D2-2	-	53.6	0.0	0.0	0.0	67.4	0.0	0.0	67.4	67.5	70	N	-	-	13.9	Y	N	N
N5304	7	28.5	D2-2	-	53.5	0.0	0.0	0.0	67.3	0.0	0.0	67.3	67.5	70	N	-	-	14.0	Y	N	N
N5304	8	31.3	D2-2	-	53.5	0.0	0.0	0.0	67.3	0.0	0.0	67.3	67.5	70	N	-	-	14.0	Y	N	N
N5304	9	34.1	D2-2	-	53.4	0.0	0.0	0.0	67.3	0.0	0.0	67.3	67.4	70	N	-	-	14.0	Y	N	N
N5304	10	36.9	D2-2	-	53.3	0.0	0.0	0.0	67.2	0.0	0.0	67.2	67.4	70	N	-	-	14.1	Y	N	N
N5304	11	39.7	D2-2	-	53.2	0.0	0.0	0.0	67.2	0.0	0.0	67.2	67.3	70	N	-	-	14.1	Y	N	N
N5304	12	42.5	D2-2	-	53.1	0.0	0.0	0.0	67.1	0.0	0.0	67.1	67.2	70	N	-	-	14.1	Y	N	N
N5304	13	45.3	D2-2	-	53.0	0.0	0.0	0.0	66.9	0.0	0.0	66.9	67.1	70	N	-	-	14.1	Y	N	N
N5304	14	48.1	D2-2	-	53.0	0.0	0.0	0.0	66.8	0.0	0.0	66.8	67.0	70	N	-	-	14.0	Y	N	N
N5304	15	50.9	D2-2	-	52.9	0.0	0.0	0.0	66.7	0.0	0.0	66.7	66.8	70	N	-	-	13.9	Y	N	N
N5304	16	53.7	D2-2	-	52.8	0.0	0.0	0.0	66.6	0.0	0.0	66.6	66.7	70	N	-	-	13.9	Y	N	N
N5304	17	56.5	D2-2	-	52.7	0.0	0.0	0.0	66.4	0.0	0.0	66.4	66.6	70	N	-	-	13.9	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
N5304	18	59.3	D2-2	-	52.6	0.0	0.0	0.0	66.2	0.0	0.0	66.2	66.4	70	N	-	-	13.8	Y	N	N
N5304	19	62.1	D2-2	-	52.6	0.0	0.0	0.0	66.1	0.0	0.0	66.1	66.3	70	N	-	-	13.7	Y	N	N
N5304	20	64.9	D2-2	-	52.5	0.0	0.0	0.0	65.9	0.0	0.0	65.9	66.1	70	N	-	-	13.6	Y	N	N
N5304	21	67.7	D2-2	-	52.4	0.0	0.0	0.0	65.8	0.0	0.0	65.8	66.0	70	N	-	-	13.6	Y	N	N
N5304	22	70.5	D2-2	-	52.3	0.0	0.0	0.0	65.6	0.0	0.0	65.6	65.8	70	N	-	-	13.5	Y	N	N
N5304	23	73.3	D2-2	-	52.2	0.0	0.0	0.0	65.5	0.0	0.0	65.5	65.7	70	N	-	-	13.5	Y	N	N
N5304	24	76.1	D2-2	-	52.2	0.0	0.0	0.0	65.4	0.0	0.0	65.4	65.6	70	N	-	-	13.4	Y	N	N
N5304	25	78.9	D2-2	-	52.1	0.0	0.0	0.0	65.3	0.0	0.0	65.3	65.5	70	N	-	-	13.4	Y	N	N
N5305	1	11.7	D2-2	-	48.8	0.0	0.0	45.4	68.3	0.0	0.0	68.3	68.4	70	N	-	-	19.6	Y	N	N
N5305	2	14.5	D2-2	-	58.4	0.0	0.0	51.8	68.6	0.0	0.0	68.6	69.0	70	N	-	-	10.6	Y	N	N
N5305	3	17.3	D2-2	-	59.4	0.0	0.0	54.7	69.1	0.0	0.0	69.3	69.7	70	N	-	-	10.3	Y	N	N
N5305	4	20.1	D2-2	-	59.6	0.0	0.0	55.0	69.8	0.0	0.0	69.9	70.3	70	N	-	-	10.7	Y	N	N
N5305	5	22.9	D2-2	-	59.6	0.0	0.0	55.0	70.1	0.0	0.0	70.2	70.6	70	Y	-	-	11.0	Y	N	Y
N5305	6	25.7	D2-2	-	59.5	0.0	0.0	55.0	70.3	0.0	0.0	70.4	70.8	70	Y	-	-	11.3	Y	N	Y
N5305	7	28.5	D2-2	-	59.5	0.0	0.0	55.0	70.4	0.0	0.0	70.6	70.9	70	Y	-	-	11.4	Y	Y	Y
N5305	8	31.3	D2-2	-	59.4	0.0	0.0	55.0	70.4	0.0	0.0	70.5	70.8	70	Y	-	-	11.4	Y	Y	Y
N5305	9	34.1	D2-2	-	59.4	0.0	0.0	54.9	70.2	0.0	0.0	70.3	70.7	70	Y	-	-	11.3	Y	N	Y
N5305	10	36.9	D2-2	-	59.3	0.0	0.0	54.9	70.0	0.0	0.0	70.2	70.5	70	Y	-	-	11.2	Y	N	Y
N5305	11	39.7	D2-2	-	59.3	0.0	0.0	54.9	69.9	0.0	0.0	70.0	70.4	70	N	-	-	11.1	Y	N	N
N5305	12	42.5	D2-2	-	59.2	0.0	0.0	54.9	69.6	0.0	0.0	69.8	70.2	70	N	-	-	11.0	Y	N	N
N5305	13	45.3	D2-2	-	59.2	0.0	0.0	55.0	69.5	0.0	0.0	69.7	70.0	70	N	-	-	10.8	Y	N	N
N5305	14	48.1	D2-2	-	59.1	0.0	0.0	55.0	69.3	0.0	0.0	69.5	69.9	70	N	-	-	10.8	Y	N	N
N5305	15	50.9	D2-2	-	59.1	0.0	0.0	55.0	69.1	0.0	0.0	69.3	69.7	70	N	-	-	10.6	Y	N	N
N5305	16	53.7	D2-2	-	59.0	0.0	0.0	55.0	69.0	0.0	0.0	69.1	69.5	70	N	-	-	10.5	Y	N	N
N5305	17	56.5	D2-2	-	59.0	0.0	0.0	54.9	68.8	0.0	0.0	69.0	69.4	70	N	-	-	10.4	Y	N	N
N5305	18	59.3	D2-2	-	58.9	0.0	0.0	54.9	68.7	0.0	0.0	68.8	69.3	70	N	-	-	10.4	Y	N	N
N5305	19	62.1	D2-2	-	58.9	0.0	0.0	54.8	68.5	0.0	0.0	68.7	69.1	70	N	-	-	10.2	Y	N	N
N5305	20	64.9	D2-2	-	58.8	0.0	0.0	54.8	68.3	0.0	0.0	68.5	69.0	70	N	-	-	10.2	Y	N	N
N5305	21	67.7	D2-2	-	58.7	0.0	0.0	54.8	68.2	0.0	0.0	68.4	68.8	70	N	-	-	10.1	Y	N	N
N5305	22	70.5	D2-2	-	58.7	0.0	0.0	54.7	68.0	0.0	0.0	68.2	68.7	70	N	-	-	10.0	Y	N	N
N5305	23	73.3	D2-2	-	58.7	0.0	0.0	54.7	67.9	0.0	0.0	68.1	68.6	70	N	-	-	9.9	Y	N	N
N5305	24	76.1	D2-2	-	58.6	0.0	0.0	54.6	67.8	0.0	0.0	68.0	68.4	70	N	-	-	9.8	Y	N	N
N5305	25	78.9	D2-2	-	58.6	0.0	0.0	54.6	67.6	0.0	0.0	67.8	68.3	70	N	-	-	9.7	Y	N	N
N5306	1	11.7	D2-2	-	57.3	0.0	0.0	56.2	69.5	0.0	0.0	69.7	70.0	70	N	-	-	12.7	Y	N	N
N5306	2	14.5	D2-2	-	57.4	0.0	0.0	57.3	69.5	0.0	0.0	69.7	70.0	70	N	-	-	12.6	Y	N	N
N5306	3	17.3	D2-2	-	57.7	0.0	0.0	59.0	69.4	0.0	0.0	69.8	70.1	70	N	-	-	12.4	Y	N	N
N5306	4	20.1	D2-2	-	57.8	0.0	0.0	59.3	69.3	0.0	0.0	69.8	70.0	70	N	-	-	12.2	Y	N	N
N5306	5	22.9	D2-2	-	57.8	0.0	0.0	59.7	69.2	0.0	0.0	69.7	70.0	70	N	-	-	12.2	Y	N	N
N5306	6	25.7	D2-2	-	57.9	0.0	0.0	59.9	69.1	0.0	0.0	69.6	69.9	70	N	-	-	12.0	Y	N	N
N5306	7	28.5	D2-2	-	57.8	0.0	0.0	60.3	68.9	0.0	0.0	69.5	69.8	70	N	-	-	12.0	Y	N	N
N5306	8	31.3	D2-2	-	57.8	0.0	0.0	60.5	68.8	0.0	0.0	69.4	69.7	70	N	-	-	11.9	Y	N	N
N5306	9	34.1	D2-2	-	57.8	0.0	0.0	60.5	68.6	0.0	0.0	69.2	69.5	70	N	-	-	11.7	Y	N	N
N5306	10	36.9	D2-2	-	57.7	0.0	0.0	60.5	68.5	0.0	0.0	69.1	69.4	70	N	-	-	11.7	Y	N	N
N5306	11	39.7	D2-2	-	57.7	0.0	0.0	60.5	68.3	0.0	0.0	69.0	69.3	70	N	-	-	11.6	Y	N	N
N5306	12	42.5	D2-2	-	57.6	0.0	0.0	60.4	68.2	0.0	0.0	68.8	69.2	70	N	-	-	11.6	Y	N	N
N5306	13	45.3	D2-2	-	57.6	0.0	0.0	60.4	68.0	0.0	0.0	68.7	69.0	70	N	-	-	11.4	Y	N	N
N5306	14	48.1	D2-2	-	57.6	0.0	0.0	60.3	67.9	0.0	0.0	68.6	68.9	70	N	-	-	11.3	Y	N	N
N5306	15	50.9	D2-2	-	57.5	0.0	0.0	60.3	67.7	0.0	0.0	68.4	68.8	70	N	-	-	11.3	Y	N	N
N5306	16	53.7	D2-2	-	57.5	0.0	0.0	60.3	67.6	0.0	0.0	68.3	68.7	70	N	-	-	11.2	Y	N	N
N5306	17	56.5	D2-2	-	57.5	0.0	0.0	60.2	67.4	0.0	0.0	68.2	68.6	70	N	-	-	11.1	Y	N	N
N5306	18	59.3	D2-2	-	57.5	0.0	0.0	60.2	67.3	0.0	0.0	68.1	68.5	70	N	-	-	11.0	Y	N	N
N5306	19	62.1	D2-2	-	57.5	0.0	0.0	60.2	67.2	0.0	0.0	68.0	68.4	70	N	-	-	10.9	Y	N	N
N5306	20	64.9	D2-2	-	57.5	0.0	0.0	60.2	67.1	0.0	0.0	67.9	68.3	70	N	-	-	10.8	Y	N	N
N5306	21	67.7	D2-2	-	57.4	0.0	0.0	60.3	66.9	0.0	0.0	67.8	68.2	70	N	-	-	10.8	Y	N	N
N5306	22	70.5	D2-2	-	57.4	0.0	0.0	60.3	66.8	0.0	0.0	67.7	68.1	70	N	-	-	10.7	Y	N	N
N5306	23	73.3	D2-2	-	57.4	0.0	0.0	60.3	66.7	0.0	0.0	67.6	68.0	70	N	-	-	10.6	Y	N	N
N5306	24	76.1	D2-2	-	57.3	0.0	0.0	60.3	66.6	0.0	0.0	67.5	67.9	70	N	-	-	10.6	Y	N	N
N5306	25	78.9	D2-2	-	57.3	0.0	0.0	60.3	66.5	0.0	0.0	67.4	67.8	70	N	-	-	10.5	Y	N	N
N5307	1	11.7	D2-2	-	21.8	0.0	61.3	62.6	67.6	0.0	0.0	69.5	69.5	70	N	-	-	47.7	Y	N	N
N5307	2	14.5	D2-2	-	22.6	0.0	62.0	62.8	67.6	0.0	0.0	69.6	69.6	70	N	-	-	47.0	Y	N	N
N5307	3	17.3	D2-2	-	23.5	0.0	62.7	63.2	67.5	0.0	0.0	69.8	69.8	70	N	-	-	46.3	Y	N	N
N5307	4	20.1	D2-2	-	24.5	0.0	63.3	63.3	67.4	0.0	0.0	69.9	69.9	70	N	-	-	45.4	Y	N	N
N5307	5	22.9	D2-2	-	25.5	0.0	63.7	63.4	67.3	0.0	0.0	70.0	70.0	70	N	-	-	44.5	Y	N	N
N5307	6	25.7	D2-2	-	26.5	0.0	64.0	63.5	67.2	0.0	0.0	70.0	70.0	70	N	-	-	43.5	Y	N	N
N5307	7	28.5	D2-2	-	27.5	0.0	64.2	63.6	67.0	0.0	0.0	70.0	70.0	70	N	-	-	42.5	Y	N	N
N5307	8	31.3	D2-2	-	28.6	0.0	64.4	63.7	66.9	0.0	0.0	70.0	70.0	70	N	-	-	41.4	Y	N	N
N5307	9	34.1	D2-2	-	29.6	0.0	64.5	63.7	66.7	0.0	0.0	69.9	69.9	70	N	-	-	40.3	Y	N	N
N5307	10	36.9	D2-2	-	30.7	0.0	64.6	63.6	66.6	0.0	0.0	69.9	69.9	70	N	-	-	39.2	Y	N	N
N5307	11	39.7	D2-2	-	31.9	0.0	64.7	63.5	66.4	0.0	0.0	69.8	69.8	70	N	-	-	37.9	Y	N	N
N5307	12	42.5	D2-2	-	33.1	0.0	64.7	63.5	66.3	0.0	0.0	69.7	69.7	70	N	-	-	36.6	Y	N	N
N5307	13	45.3	D2-2	-	34.5	0.0	64.7	63.4	66.1	0.0	0.0	69.7	69.7	70	N	-	-	35.2	Y	N	N
N5307	14	48.1	D2-2	-	36.0	0.0	64.7	63.4	66.0	0.0	0.0	69.6	69.6	70	N	-	-	33.6	Y	N	N
N5307	15	50.9	D2-2	-	37.8	0.0	64.7	63.3	65.8	0.0	0.0	69.5	69.5	70	N	-	-	31.7	Y	N	N
N5307	16	53.7	D2-2	-	39.8	0.0	64.7	63.3	65.7	0.0	0.0	69.4	69.4	70	N	-	-	29.6	Y	N	N
N5307	17	56.5	D2-2	-	41.8	0.0	64.7	63.2	65.5	0.0	0.0	69.4	69.4	70	N	-	-	27.6	Y	N	N
N5307	18	59.3	D2-2	-	42.9	0.0	64.6	63.2	65.4	0.0	0.0	69.3	69.3	70	N	-	-	26.4	Y	N	N
N5307	19	62.1	D2-2	-	43.7	0.0	64.6	63.2	65.3	0.0	0.0	69.2	69.2	70	N	-	-	25.5	Y	N	N
N5307	20	64.9	D2-2	-	44.3	0.0	64.6	63.1	65.2	0.0	0.0	69.1	69.2	70	N	-	-	24.9	Y	N	N
N5307	21	67.7	D2-2	-	44.6	0.0	64.5	63.1	65.0	0.0	0.0	69.1	69.1	70	N	-	-	24.5	Y	N	N
N5307	22	70.5	D2-2	-	44.8	0.0	64.5	63.1	64.9	0.0	0.0	69.0	69.0	70	N	-	-	24.2	Y	N	N
N5307	23	73.3	D2-2	-	45.0	0.0	64.4	63.0	64.8	0.0	0.0	68.9	68.9	70	N	-	-	23.9	Y	N	N
N5307	24	76.1	D2-2	-	45.1	0.0	64.4	63.0	64.7	0.0	0.0	68.8	68.9	70	N	-	-	23.8	Y	N	N
N5307	25	78.9	D2-2	-	45.2	0.0	64.4	62.9	64.5	0.0	0.0	68.8	68.8	70	N	-	-	23.6	Y	N	N
N5361a	1	15.3	D2-9	-	0.0	0.0	57.5	8.0	40.5	0.0	0.0	57.6	57.6	70	N	-	-	54.6	Y	N	N
N5361a	2	18.1	D2-9	-	0.0	0.0	58.5	8.0	40.6	0.0	0.0	58.6	58.6	70	N	-	-	55.6	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
							dB (A)													
N5361a	3	20.9	D2-9	-	0.0	0.0	59.6	8.0	40.7	0.0	0.0	59.7	59.7	70	N	-	-	56.7	Y	N	N
N5361a	4	23.7	D2-9	-	0.0	0.0	60.7	8.0	41.1	0.0	0.0	60.8	60.8	70	N	-	-	57.8	Y	N	N
N5361a	5	26.5	D2-9	-	0.0	0.0	62.1	8.0	42.1	0.0	0.0	62.1	62.1	70	N	-	-	59.1	Y	N	N
N5361a	6	29.3	D2-9	-	0.0	0.0	64.0	8.0	43.1	0.0	0.0	64.0	64.0	70	N	-	-	61.0	Y	N	N
N5361a	7	32.1	D2-9	-	0.0	0.0	65.8	8.0	43.8	0.0	0.0	65.9	65.9	70	N	-	-	62.9	Y	N	N
N5361a	8	34.9	D2-9	-	0.0	0.0	67.3	7.7	44.2	0.0	0.0	67.3	67.3	70	N	-	-	64.3	Y	N	N
N5361a	9	37.7	D2-9	-	0.0	0.0	68.1	8.0	44.5	0.0	0.0	68.1	68.1	70	N	-	-	65.1	Y	N	N
N5361a	10	40.5	D2-9	-	0.0	0.0	68.5	8.1	44.6	0.0	0.0	68.5	68.5	70	N	-	-	65.5	Y	N	N
N5361a	11	43.3	D2-9	-	0.0	0.0	68.8	8.1	44.8	0.0	0.0	68.8	68.8	70	N	-	-	65.8	Y	N	N
N5361a	12	46.1	D2-9	-	0.0	0.0	69.0	8.1	44.9	0.0	0.0	69.0	69.0	70	N	-	-	66.0	Y	N	N
N5361a	13	48.9	D2-9	-	0.0	0.0	69.3	8.0	45.0	0.0	0.0	69.3	69.3	70	N	-	-	66.3	Y	N	N
N5361a	14	51.7	D2-9	-	0.0	0.0	69.4	8.8	45.0	0.0	0.0	69.4	69.4	70	N	-	-	66.4	Y	N	N
N5361a	15	54.5	D2-9	-	0.0	0.0	69.7	9.7	45.0	0.0	0.0	69.7	69.7	70	N	-	-	66.7	Y	N	N
N5361a	16	57.3	D2-9	-	0.0	0.0	69.9	10.5	45.0	0.0	0.0	69.9	69.9	70	N	-	-	66.9	Y	N	N
N5361a	17	60.1	D2-9	-	0.0	0.0	70.0	11.4	45.0	0.0	0.0	70.0	70.0	70	N	-	-	67.0	Y	N	N
N5361a	18	62.9	D2-9	-	0.0	0.0	70.0	12.4	45.0	0.0	0.0	70.0	70.0	70	N	-	-	67.0	Y	N	N
N5361a	19	65.7	D2-9	-	0.0	0.0	70.0	13.3	45.0	0.0	0.0	70.0	70.0	70	N	-	-	67.0	Y	N	N
N5361a	20	68.5	D2-9	-	0.0	0.0	70.0	14.4	45.0	0.0	0.0	70.0	70.0	70	N	-	-	67.0	Y	N	N
N5361a	21	71.3	D2-9	-	0.0	0.0	70.0	15.4	45.0	0.0	0.0	70.0	70.0	70	N	-	-	67.0	Y	N	N
N5361a	22	74.1	D2-9	-	0.0	0.0	69.9	16.4	44.9	0.0	0.0	69.9	69.9	70	N	-	-	66.9	Y	N	N
N5361a	23	76.9	D2-9	-	0.0	0.0	69.8	17.3	44.9	0.0	0.0	69.8	69.8	70	N	-	-	66.8	Y	N	N
N5361a	24	79.7	D2-9	-	0.0	0.0	69.8	18.2	44.9	0.0	0.0	69.8	69.8	70	N	-	-	66.8	Y	N	N
N5361a	25	82.5	D2-9	-	0.0	0.0	69.7	19.2	44.9	0.0	0.0	69.7	69.7	70	N	-	-	66.7	Y	N	N
N5361a	26	85.3	D2-9	-	0.0	0.0	69.6	20.1	44.8	0.0	0.0	69.6	69.6	70	N	-	-	66.6	Y	N	N
N5361a	27	88.1	D2-9	-	0.0	0.0	69.5	21.1	44.8	0.0	0.0	69.5	69.5	70	N	-	-	66.5	Y	N	N
N5361a	28	90.9	D2-9	-	0.0	0.0	69.4	22.1	44.8	0.0	0.0	69.4	69.4	70	N	-	-	66.4	Y	N	N
N5361a	29	93.7	D2-9	-	0.0	0.0	69.3	23.2	44.7	0.0	0.0	69.4	69.4	70	N	-	-	66.4	Y	N	N
N5361a	30	96.5	D2-9	-	0.0	0.0	69.3	24.4	44.7	0.0	0.0	69.3	69.3	70	N	-	-	66.3	Y	N	N
N5361a	31	99.3	D2-9	-	0.0	0.0	69.2	25.8	44.7	0.0	0.0	69.2	69.2	70	N	-	-	66.2	Y	N	N
N5361a	32	102.1	D2-9	-	0.0	0.0	69.1	27.3	44.6	0.0	0.0	69.1	69.1	70	N	-	-	66.1	Y	N	N
N5361a	33	104.9	D2-9	-	0.0	0.0	69.0	29.1	44.6	0.0	0.0	69.0	69.0	70	N	-	-	66.0	Y	N	N
N5361a	34	107.7	D2-9	-	0.0	0.0	68.9	30.9	44.5	0.0	0.0	68.9	68.9	70	N	-	-	65.9	Y	N	N
N5361a	35	110.5	D2-9	-	0.0	0.0	68.8	32.9	44.5	0.0	0.0	68.9	68.9	70	N	-	-	65.9	Y	N	N
N5361a	36	113.3	D2-9	-	0.0	0.0	68.8	34.2	44.5	0.0	0.0	68.8	68.8	70	N	-	-	65.8	Y	N	N
N5361b	1	15.3	D2-9	-	0.0	0.0	56.8	8.0	40.5	0.0	0.0	56.9	56.9	70	N	-	-	53.9	Y	N	N
N5361b	2	18.1	D2-9	-	0.0	0.0	57.8	8.0	40.5	0.0	0.0	57.9	57.9	70	N	-	-	54.9	Y	N	N
N5361b	3	20.9	D2-9	-	0.0	0.0	58.8	8.0	40.6	0.0	0.0	58.9	58.9	70	N	-	-	55.9	Y	N	N
N5361b	4	23.7	D2-9	-	0.0	0.0	59.8	8.0	40.9	0.0	0.0	59.8	59.8	70	N	-	-	56.8	Y	N	N
N5361b	5	26.5	D2-9	-	0.0	0.0	61.0	8.0	41.6	0.0	0.0	61.1	61.1	70	N	-	-	58.1	Y	N	N
N5361b	6	29.3	D2-9	-	0.0	0.0	62.6	8.0	42.7	0.0	0.0	62.7	62.7	70	N	-	-	59.7	Y	N	N
N5361b	7	32.1	D2-9	-	0.0	0.0	64.3	8.0	43.5	0.0	0.0	64.4	64.4	70	N	-	-	61.4	Y	N	N
N5361b	8	34.9	D2-9	-	0.0	0.0	65.9	7.7	43.9	0.0	0.0	65.9	65.9	70	N	-	-	62.9	Y	N	N
N5361b	9	37.7	D2-9	-	0.0	0.0	66.7	8.0	44.2	0.0	0.0	66.7	66.7	70	N	-	-	63.7	Y	N	N
N5361b	10	40.5	D2-9	-	0.0	0.0	67.1	8.1	44.3	0.0	0.0	67.1	67.1	70	N	-	-	64.1	Y	N	N
N5361b	11	43.3	D2-9	-	0.0	0.0	67.4	8.1	44.5	0.0	0.0	67.4	67.4	70	N	-	-	64.4	Y	N	N
N5361b	12	46.1	D2-9	-	0.0	0.0	67.7	8.1	44.6	0.0	0.0	67.7	67.7	70	N	-	-	64.7	Y	N	N
N5361b	13	48.9	D2-9	-	0.0	0.0	67.9	8.0	44.7	0.0	0.0	68.0	68.0	70	N	-	-	65.0	Y	N	N
N5361b	14	51.7	D2-9	-	0.0	0.0	68.1	8.8	44.8	0.0	0.0	68.1	68.1	70	N	-	-	65.1	Y	N	N
N5361b	15	54.5	D2-9	-	0.0	0.0	68.4	9.6	44.7	0.0	0.0	68.4	68.4	70	N	-	-	65.4	Y	N	N
N5361b	16	57.3	D2-9	-	0.0	0.0	68.5	10.5	44.8	0.0	0.0	68.6	68.6	70	N	-	-	65.6	Y	N	N
N5361b	17	60.1	D2-9	-	0.0	0.0	68.6	11.4	44.8	0.0	0.0	68.7	68.7	70	N	-	-	65.7	Y	N	N
N5361b	18	62.9	D2-9	-	0.0	0.0	68.7	12.4	44.8	0.0	0.0	68.7	68.7	70	N	-	-	65.7	Y	N	N
N5361b	19	65.7	D2-9	-	0.0	0.0	68.7	13.3	44.8	0.0	0.0	68.7	68.7	70	N	-	-	65.7	Y	N	N
N5361b	20	68.5	D2-9	-	0.0	0.0	68.6	14.4	44.8	0.0	0.0	68.7	68.7	70	N	-	-	65.7	Y	N	N
N5361b	21	71.3	D2-9	-	0.0	0.0	68.6	15.4	44.8	0.0	0.0	68.6	68.6	70	N	-	-	65.6	Y	N	N
N5361b	22	74.1	D2-9	-	0.0	0.0	68.6	16.3	44.7	0.0	0.0	68.6	68.6	70	N	-	-	65.6	Y	N	N
N5361b	23	76.9	D2-9	-	0.0	0.0	68.5	17.2	44.7	0.0	0.0	68.6	68.6	70	N	-	-	65.6	Y	N	N
N5361b	24	79.7	D2-9	-	0.0	0.0	68.5	18.1	44.7	0.0	0.0	68.5	68.5	70	N	-	-	65.5	Y	N	N
N5361b	25	82.5	D2-9	-	0.0	0.0	68.4	19.1	44.6	0.0	0.0	68.4	68.4	70	N	-	-	65.4	Y	N	N
N5361b	26	85.3	D2-9	-	0.0	0.0	68.3	20.0	44.6	0.0	0.0	68.3	68.3	70	N	-	-	65.3	Y	N	N
N5361b	27	88.1	D2-9	-	0.0	0.0	68.2	21.0	44.6	0.0	0.0	68.3	68.3	70	N	-	-	65.3	Y	N	N
N5361b	28	90.9	D2-9	-	0.0	0.0	68.2	21.9	44.6	0.0	0.0	68.2	68.2	70	N	-	-	65.2	Y	N	N
N5361b	29	93.7	D2-9	-	0.0	0.0	68.1	23.1	44.5	0.0	0.0	68.1	68.1	70	N	-	-	65.1	Y	N	N
N5361b	30	96.5	D2-9	-	0.0	0.0	68.0	24.3	44.5	0.0	0.0	68.0	68.0	70	N	-	-	65.0	Y	N	N
N5361b	31	99.3	D2-9	-	0.0	0.0	67.9	25.6	44.5	0.0	0.0	67.9	67.9	70	N	-	-	64.9	Y	N	N
N5361b	32	102.1	D2-9	-	0.0	0.0	67.8	27.0	44.4	0.0	0.0	67.9	67.9	70	N	-	-	64.9	Y	N	N
N5361b	33	104.9	D2-9	-	0.0	0.0	67.8	28.8	44.4	0.0	0.0	67.8	67.8	70	N	-	-	64.8	Y	N	N
N5361b	34	107.7	D2-9	-	0.0	0.0	67.7	30.5	44.4	0.0	0.0	67.7	67.7	70	N	-	-	64.7	Y	N	N
N5361b	35	110.5	D2-9	-	0.0	0.0	67.6	32.6	44.3	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
N5361b	36	113.3	D2-9	-	0.0	0.0	67.5	34.1	44.3	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
N5361c	1	15.3	D2-9	-	12.2	0.0	53.7	0.0	24.4	0.0	0.0	53.7	53.7	70	N	-	-	41.2	Y	N	N
N5361c	2	18.1	D2-9	-	12.2	0.0	54.9	0.0	25.8	0.0	0.0	54.9	54.9	70	N	-	-	42.4	Y	N	N
N5361c	3	20.9	D2-9	-	12.2	0.0	56.2	0.0	28.1	0.0	0.0	56.2	56.2	70	N	-	-	43.7	Y	N	N
N5361c	4	23.7	D2-9	-	12.2	0.0	57.8	0.0	32.5	0.0	0.0	57.8	57.8	70	N	-	-	45.3	Y	N	N
N5361c	5	26.5	D2-9	-	12.2	0.0	59.7	0.0	37.1	0.0	0.0	59.7	59.7	70	N	-	-	47.2	Y	N	N
N5361c	6	29.3	D2-9	-	12.1	0.0	62.1	0.0	38.8	0.0	0.0	62.1	62.1	70	N	-	-	49.7	Y	N	N
N5361c	7	32.1	D2-9	-	12.1	0.0	64.5	0.0	39.1	0.0	0.0	64.5	64.5	70	N	-	-	52.1	Y	N	N
N5361c	8	34.9	D2-9	-	12.1	0.0	65.8	0.0	39.2	0.0	0.0	65.8	65.8	70	N	-	-	53.4	Y	N	N
N5361c	9	37.7	D2-9	-	12.1	0.0	66.7	0.0	39.2	0.0	0.0	66.7	66.7	70	N	-	-	54.3	Y	N	N
N5361c	10	40.5	D2-9	-	12.1	0.0	67.3	0.0	39.2	0.0	0.0	67.3	67.3	70	N	-	-	54.9	Y	N	N
N5361c	11	43.3	D2-9	-	12.1	0.0	67.8	0.0	39.1	0.0	0.0	67.8	67.8	70	N	-	-	55.4	Y	N	N
N5361c	12	46.1	D2-9	-	12.1	0.0	68.2	0.0	39.1	0.0	0.0	68.2	68.2	70	N	-	-	55.8	Y	N	N
N5361c	13	48.9	D2-9	-	12.1	0.0	68.4	0.0	39.0	0.0	0.0	68.4	68.4	70	N	-	-	56.0	Y	N	N
N5361c	14	51.7	D2-9	-	12.1	0.0	68.7	0.0	39.0	0.0	0.0	68.7	68.7	70	N	-	-	56.3	Y	N	N
N5361c	15	54.5	D2-9	-	12.1	0.0	68.9	0.0	38.9	0.0	0.0	68.9	68.9	70	N	-	-	56.5	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
							dB (A)													
N5361c	16	57.3	D2-9	-	12.1	0.0	69.0	0.0	38.9	0.0	0.0	69.0	69.0	70	N	-	-	56.6	Y	N	N
N5361c	17	60.1	D2-9	-	12.1	0.0	69.1	0.0	38.8	0.0	0.0	69.1	69.1	70	N	-	-	56.7	Y	N	N
N5361c	18	62.9	D2-9	-	12.1	0.0	69.1	0.0	38.8	0.0	0.0	69.1	69.1	70	N	-	-	56.7	Y	N	N
N5361c	19	65.7	D2-9	-	12.1	0.0	69.2	0.0	38.7	0.0	0.0	69.2	69.2	70	N	-	-	56.8	Y	N	N
N5361c	20	68.5	D2-9	-	12.1	0.0	69.1	0.0	38.7	0.0	0.0	69.1	69.1	70	N	-	-	56.7	Y	N	N
N5361c	21	71.3	D2-9	-	12.0	0.0	69.2	0.0	38.7	0.0	0.0	69.2	69.2	70	N	-	-	56.9	Y	N	N
N5361c	22	74.1	D2-9	-	12.0	0.0	69.1	0.0	38.6	0.0	0.0	69.1	69.1	70	N	-	-	56.8	Y	N	N
N5361c	23	76.9	D2-9	-	12.0	0.0	69.1	0.0	38.6	0.0	0.0	69.1	69.1	70	N	-	-	56.8	Y	N	N
N5361c	24	79.7	D2-9	-	12.0	0.0	69.1	0.0	38.5	0.0	0.0	69.1	69.1	70	N	-	-	56.8	Y	N	N
N5361c	25	82.5	D2-9	-	12.0	0.0	69.1	0.0	38.5	0.0	0.0	69.1	69.1	70	N	-	-	56.8	Y	N	N
N5361c	26	85.3	D2-9	-	11.9	0.0	69.0	0.0	38.4	0.0	0.0	69.0	69.0	70	N	-	-	56.8	Y	N	N
N5361c	27	88.1	D2-9	-	12.0	0.0	68.9	0.0	38.4	0.0	0.0	68.9	68.9	70	N	-	-	56.6	Y	N	N
N5361c	28	90.9	D2-9	-	12.0	0.0	68.9	0.0	38.3	0.0	0.0	68.9	68.9	70	N	-	-	56.6	Y	N	N
N5361c	29	93.7	D2-9	-	12.0	0.0	68.8	0.0	38.3	0.0	0.0	68.8	68.8	70	N	-	-	56.5	Y	N	N
N5361c	30	96.5	D2-9	-	11.9	0.0	68.7	0.0	38.2	0.0	0.0	68.7	68.7	70	N	-	-	56.5	Y	N	N
N5361c	31	99.3	D2-9	-	11.9	0.0	68.7	0.0	38.2	0.0	0.0	68.7	68.7	70	N	-	-	56.5	Y	N	N
N5361c	32	102.1	D2-9	-	11.9	0.0	68.6	0.0	38.1	0.0	0.0	68.6	68.6	70	N	-	-	56.4	Y	N	N
N5361c	33	104.9	D2-9	-	11.9	0.0	68.5	0.0	38.1	0.0	0.0	68.5	68.5	70	N	-	-	56.3	Y	N	N
N5361c	34	107.7	D2-9	-	11.8	0.0	68.4	0.0	38.1	0.0	0.0	68.4	68.4	70	N	-	-	56.3	Y	N	N
N5361c	35	110.5	D2-9	-	12.1	0.0	68.3	0.0	38.1	0.0	0.0	68.3	68.3	70	N	-	-	55.9	Y	N	N
N5361c	36	113.3	D2-9	-	12.1	0.0	68.3	0.0	38.0	0.0	0.0	68.3	68.3	70	N	-	-	55.9	Y	N	N
N5361d	1	15.3	D2-9	-	12.2	0.0	54.9	0.0	26.1	0.0	0.0	54.9	54.9	70	N	-	-	42.4	Y	N	N
N5361d	2	18.1	D2-9	-	12.2	0.0	56.1	0.0	27.8	0.0	0.0	56.2	56.2	70	N	-	-	43.7	Y	N	N
N5361d	3	20.9	D2-9	-	12.2	0.0	57.5	0.0	29.9	0.0	0.0	57.6	57.6	70	N	-	-	45.1	Y	N	N
N5361d	4	23.7	D2-9	-	12.2	0.0	59.1	0.0	33.7	0.0	0.0	59.1	59.1	70	N	-	-	46.6	Y	N	N
N5361d	5	26.5	D2-9	-	12.2	0.0	61.0	0.0	38.0	0.0	0.0	61.0	61.0	70	N	-	-	48.5	Y	N	N
N5361d	6	29.3	D2-9	-	12.1	0.0	63.6	0.0	40.0	0.0	0.0	63.6	63.6	70	N	-	-	51.2	Y	N	N
N5361d	7	32.1	D2-9	-	12.1	0.0	65.9	0.0	41.1	0.0	0.0	65.9	65.9	70	N	-	-	53.5	Y	N	N
N5361d	8	34.9	D2-9	-	12.1	0.0	67.3	0.0	41.7	0.0	0.0	67.3	67.3	70	N	-	-	54.9	Y	N	N
N5361d	9	37.7	D2-9	-	12.1	0.0	68.1	0.0	42.0	0.0	0.0	68.1	68.1	70	N	-	-	55.7	Y	N	N
N5361d	10	40.5	D2-9	-	12.1	0.0	68.6	0.0	42.1	0.0	0.0	68.6	68.6	70	N	-	-	56.2	Y	N	N
N5361d	11	43.3	D2-9	-	12.1	0.0	69.0	0.0	42.1	0.0	0.0	69.0	69.0	70	N	-	-	56.6	Y	N	N
N5361d	12	46.1	D2-9	-	12.1	0.0	69.4	0.0	42.1	0.0	0.0	69.4	69.4	70	N	-	-	57.0	Y	N	N
N5361d	13	48.9	D2-9	-	12.1	0.0	69.6	0.0	42.1	0.0	0.0	69.6	69.6	70	N	-	-	57.2	Y	N	N
N5361d	14	51.7	D2-9	-	12.1	0.0	69.9	0.0	42.0	0.0	0.0	69.9	69.9	70	N	-	-	57.5	Y	N	N
N5361d	15	54.5	D2-9	-	12.1	0.0	70.1	0.0	42.0	0.0	0.0	70.1	70.1	70	N	-	-	57.7	Y	N	N
N5361d	16	57.3	D2-9	-	12.1	0.0	70.3	0.0	41.9	0.0	0.0	70.3	70.3	70	N	-	-	57.9	Y	N	N
N5361d	17	60.1	D2-9	-	12.1	0.0	70.3	0.0	41.9	0.0	0.0	70.3	70.3	70	N	-	-	57.9	Y	N	N
N5361d	18	62.9	D2-9	-	12.1	0.0	70.3	0.0	41.9	0.0	0.0	70.4	70.4	70	N	-	-	58.0	Y	N	N
N5361d	19	65.7	D2-9	-	12.1	0.0	70.3	0.0	41.8	0.0	0.0	70.4	70.4	70	N	-	-	58.0	Y	N	N
N5361d	20	68.5	D2-9	-	12.1	0.0	70.3	0.0	41.8	0.0	0.0	70.3	70.3	70	N	-	-	57.9	Y	N	N
N5361d	21	71.3	D2-9	-	12.0	0.0	70.3	0.0	41.7	0.0	0.0	70.3	70.3	70	N	-	-	58.0	Y	N	N
N5361d	22	74.1	D2-9	-	12.0	0.0	70.3	0.0	41.7	0.0	0.0	70.3	70.3	70	N	-	-	58.0	Y	N	N
N5361d	23	76.9	D2-9	-	12.0	0.0	70.3	0.0	41.7	0.0	0.0	70.3	70.3	70	N	-	-	58.0	Y	N	N
N5361d	24	79.7	D2-9	-	12.0	0.0	70.2	0.0	41.6	0.0	0.0	70.2	70.2	70	N	-	-	57.9	Y	N	N
N5361d	25	82.5	D2-9	-	12.0	0.0	70.2	0.0	41.6	0.0	0.0	70.2	70.2	70	N	-	-	57.9	Y	N	N
N5361d	26	85.3	D2-9	-	12.0	0.0	70.1	0.0	41.5	0.0	0.0	70.1	70.1	70	N	-	-	57.8	Y	N	N
N5361d	27	88.1	D2-9	-	12.0	0.0	70.0	0.0	41.5	0.0	0.0	70.0	70.0	70	N	-	-	57.7	Y	N	N
N5361d	28	90.9	D2-9	-	12.0	0.0	70.0	0.0	41.4	0.0	0.0	70.0	70.0	70	N	-	-	57.7	Y	N	N
N5361d	29	93.7	D2-9	-	12.0	0.0	69.9	0.0	41.4	0.0	0.0	69.9	69.9	70	N	-	-	57.6	Y	N	N
N5361d	30	96.5	D2-9	-	12.0	0.0	69.8	0.0	41.3	0.0	0.0	69.8	69.8	70	N	-	-	57.5	Y	N	N
N5361d	31	99.3	D2-9	-	11.9	0.0	69.7	0.0	41.3	0.0	0.0	69.7	69.7	70	N	-	-	57.5	Y	N	N
N5361d	32	102.1	D2-9	-	11.9	0.0	69.6	0.0	41.3	0.0	0.0	69.6	69.6	70	N	-	-	57.4	Y	N	N
N5361d	33	104.9	D2-9	-	11.9	0.0	69.5	0.0	41.2	0.0	0.0	69.5	69.5	70	N	-	-	57.3	Y	N	N
N5361d	34	107.7	D2-9	-	11.8	0.0	69.4	0.0	41.2	0.0	0.0	69.4	69.4	70	N	-	-	57.3	Y	N	N
N5361d	35	110.5	D2-9	-	12.1	0.0	69.3	0.0	41.2	0.0	0.0	69.3	69.3	70	N	-	-	56.9	Y	N	N
N5361d	36	113.3	D2-9	-	12.1	0.0	69.3	0.0	41.2	0.0	0.0	69.3	69.3	70	N	-	-	56.9	Y	N	N
N5362	1	15.3	D2-9	-	19.2	0.0	49.8	0.0	28.8	0.0	0.0	49.8	49.9	70	N	-	-	30.6	Y	N	N
N5362	2	18.1	D2-9	-	19.4	0.0	50.7	0.0	29.5	0.0	0.0	50.7	50.7	70	N	-	-	31.3	Y	N	N
N5362	3	20.9	D2-9	-	19.4	0.0	51.7	0.0	30.7	0.0	0.0	51.7	51.7	70	N	-	-	32.3	Y	N	N
N5362	4	23.7	D2-9	-	19.5	0.0	52.8	0.0	32.5	0.0	0.0	52.8	52.8	70	N	-	-	33.3	Y	N	N
N5362	5	26.5	D2-9	-	19.5	0.0	54.1	0.0	35.2	0.0	0.0	54.2	54.2	70	N	-	-	34.7	Y	N	N
N5362	6	29.3	D2-9	-	19.5	0.0	55.8	0.0	37.9	0.0	0.0	55.9	55.9	70	N	-	-	36.4	Y	N	N
N5362	7	32.1	D2-9	-	19.5	0.0	57.5	0.0	39.2	0.0	0.0	57.6	57.6	70	N	-	-	38.1	Y	N	N
N5362	8	34.9	D2-9	-	19.5	0.0	59.2	0.0	40.9	0.0	0.0	59.3	59.3	70	N	-	-	39.8	Y	N	N
N5362	9	37.7	D2-9	-	19.4	0.0	60.9	0.0	43.3	0.0	0.0	61.0	61.0	70	N	-	-	41.6	Y	N	N
N5362	10	40.5	D2-9	-	19.4	0.0	62.6	0.0	47.1	0.0	0.0	62.7	62.7	70	N	-	-	43.3	Y	N	N
N5362	11	43.3	D2-9	-	19.4	0.0	64.1	0.0	48.7	0.0	0.0	64.2	64.2	70	N	-	-	44.8	Y	N	N
N5362	12	46.1	D2-9	-	19.4	0.0	65.3	0.0	49.0	0.0	0.0	65.4	65.4	70	N	-	-	46.0	Y	N	N
N5362	13	48.9	D2-9	-	19.4	0.0	66.1	0.0	49.1	0.0	0.0	66.2	66.2	70	N	-	-	46.8	Y	N	N
N5362	14	51.7	D2-9	-	19.4	0.0	66.6	0.0	49.1	0.0	0.0	66.6	66.6	70	N	-	-	47.2	Y	N	N
N5362	15	54.5	D2-9	-	19.4	0.0	66.8	0.0	49.1	0.0	0.0	66.8	66.8	70	N	-	-	47.4	Y	N	N
N5362	16	57.3	D2-9	-	19.4	0.0	66.9	0.0	49.0	0.0	0.0	67.0	67.0	70	N	-	-	47.6	Y	N	N
N5362	17	60.1	D2-9	-	19.4	0.0	67.0	0.0	49.1	0.0	0.0	67.1	67.1	70	N	-	-	47.7	Y	N	N
N5362	18	62.9	D2-9	-	19.4	0.0	67.1	0.0	49.1	0.0	0.0	67.1	67.1	70	N	-	-	47.7	Y	N	N
N5362	19	65.7	D2-9	-	19.4	0.0	67.1	0.0	49.1	0.0	0.0	67.2	67.2	70	N	-	-	47.8	Y	N	N
N5362	20	68.5	D2-9	-	19.4	0.0	67.2	0.0	49.1	0.0	0.0	67.2	67.2	70	N	-	-	47.8	Y	N	N
N5362	21	71.3	D2-9	-	19.4	0.0	67.2	0.0	49.1	0.0	0.0	67.3	67.3	70	N	-	-	47.9	Y	N	N
N5362	22	74.1	D2-9	-	19.4	0.0	67.3	0.0	49.1	0.0	0.0	67.4	67.4	70	N	-	-	48.0	Y	N	N
N5362	23	76.9	D2-9	-	19.3	0.0	67.4	0.0	49.3	0.0	0.0	67.4	67.4	70	N	-	-	48.0	Y	N	N
N5362	24	79.7	D2-9	-	19.3	0.0	67.5	0.0	49.5	0.0	0.0	67.5	67.5	70	N	-	-	48.1	Y	N	N
N5362	25	82.5	D2-9	-	19.3	0.0	67.5	0.0	49.8	0.0	0.0	67.6	67.6	70	N	-	-	48.2	Y	N	N
N5362	26	85.3	D2-9	-	19.3	0.0	67.6	0.0	50.0	0.0	0.0	67.6	67.6	70	N	-	-	48.2	Y	N	N
N5362	27	88.1	D2-9	-	19.3	0.0	67.6	0.0	50.1	0.0	0.0	67.7	67.7	70	N	-	-	48.3	Y	N	N
N5362	28	90.9	D2-9	-	19.3	0.0	67.7	0.0	50.1	0.0	0.0	67.8	67.8	70	N	-	-	48.4	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]								Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
N5362	29	93.7	D2-9	-	19.3	0.0	67.8	0.0	50.2	0.0	0.0	67.8	67.8	70	N	-	-	48.4	Y	N	N
N5362	30	96.5	D2-9	-	19.3	0.0	67.8	0.0	50.3	0.0	0.0	67.9	67.9	70	N	-	-	48.5	Y	N	N
N5362	31	99.3	D2-9	-	19.3	0.0	67.8	0.0	50.2	0.0	0.0	67.9	67.9	70	N	-	-	48.5	Y	N	N
N5362	32	102.1	D2-9	-	19.2	0.0	67.8	0.0	50.3	0.0	0.0	67.8	67.8	70	N	-	-	48.5	Y	N	N
N5362	33	104.9	D2-9	-	19.1	0.0	67.7	0.0	50.2	0.0	0.0	67.8	67.8	70	N	-	-	48.6	Y	N	N
N5362	34	107.7	D2-9	-	19.2	0.0	67.7	0.0	50.3	0.0	0.0	67.8	67.8	70	N	-	-	48.5	Y	N	N
N5362	35	110.5	D2-9	-	19.3	0.0	67.7	0.0	50.3	0.0	0.0	67.8	67.8	70	N	-	-	48.4	Y	N	N
N5362	36	113.3	D2-9	-	19.7	0.0	67.6	0.0	50.3	0.0	0.0	67.7	67.7	70	N	-	-	48.0	Y	N	N
N5363	1	15.3	D2-9	-	18.1	0.0	48.6	37.8	55.3	0.0	0.0	56.2	56.2	70	N	-	-	38.0	Y	N	N
N5363	2	18.1	D2-9	-	18.1	0.0	49.3	37.8	55.4	0.0	0.0	56.4	56.4	70	N	-	-	38.2	Y	N	N
N5363	3	20.9	D2-9	-	18.1	0.0	49.7	37.8	55.4	0.0	0.0	56.5	56.5	70	N	-	-	38.3	Y	N	N
N5363	4	23.7	D2-9	-	18.1	0.0	50.1	37.8	55.4	0.0	0.0	56.6	56.6	70	N	-	-	38.4	Y	N	N
N5363	5	26.5	D2-9	-	18.1	0.0	50.5	37.8	55.4	0.0	0.0	56.7	56.7	70	N	-	-	38.5	Y	N	N
N5363	6	29.3	D2-9	-	18.1	0.0	50.9	37.8	55.3	0.0	0.0	56.7	56.7	70	N	-	-	38.5	Y	N	N
N5363	7	32.1	D2-9	-	18.1	0.0	51.4	37.7	55.3	0.0	0.0	56.8	56.8	70	N	-	-	38.6	Y	N	N
N5363	8	34.9	D2-9	-	18.1	0.0	51.7	37.7	55.3	0.0	0.0	57.0	57.0	70	N	-	-	38.8	Y	N	N
N5363	9	37.7	D2-9	-	18.1	0.0	52.1	37.7	55.3	0.0	0.0	57.1	57.1	70	N	-	-	38.9	Y	N	N
N5363	10	40.5	D2-9	-	18.1	0.0	52.4	37.7	55.4	0.0	0.0	57.2	57.2	70	N	-	-	39.0	Y	N	N
N5363	11	43.3	D2-9	-	18.1	0.0	52.7	37.7	55.4	0.0	0.0	57.3	57.3	70	N	-	-	39.1	Y	N	N
N5363	12	46.1	D2-9	-	18.1	0.0	53.0	37.7	55.3	0.0	0.0	57.4	57.4	70	N	-	-	39.2	Y	N	N
N5363	13	48.9	D2-9	-	18.1	0.0	53.2	37.7	55.4	0.0	0.0	57.5	57.5	70	N	-	-	39.3	Y	N	N
N5363	14	51.7	D2-9	-	18.0	0.0	53.5	37.7	55.4	0.0	0.0	57.6	57.6	70	N	-	-	39.5	Y	N	N
N5363	15	54.5	D2-9	-	18.1	0.0	53.7	37.7	55.4	0.0	0.0	57.7	57.7	70	N	-	-	39.5	Y	N	N
N5363	16	57.3	D2-9	-	18.0	0.0	53.8	37.7	55.4	0.0	0.0	57.7	57.7	70	N	-	-	39.6	Y	N	N
N5363	17	60.1	D2-9	-	18.1	0.0	53.9	37.7	55.4	0.0	0.0	57.8	57.8	70	N	-	-	39.6	Y	N	N
N5363	18	62.9	D2-9	-	18.1	0.0	54.0	37.7	55.4	0.0	0.0	57.8	57.8	70	N	-	-	39.6	Y	N	N
N5363	19	65.7	D2-9	-	18.1	0.0	54.1	37.6	55.4	0.0	0.0	57.9	57.9	70	N	-	-	39.7	Y	N	N
N5363	20	68.5	D2-9	-	18.1	0.0	54.3	37.6	55.4	0.0	0.0	57.9	57.9	70	N	-	-	39.7	Y	N	N
N5363	21	71.3	D2-9	-	18.1	0.0	54.3	37.6	55.5	0.0	0.0	58.0	58.0	70	N	-	-	39.8	Y	N	N
N5363	22	74.1	D2-9	-	18.0	0.0	54.4	37.6	55.4	0.0	0.0	58.0	58.0	70	N	-	-	39.9	Y	N	N
N5363	23	76.9	D2-9	-	18.0	0.0	54.5	37.6	55.4	0.0	0.0	58.0	58.0	70	N	-	-	39.9	Y	N	N
N5363	24	79.7	D2-9	-	18.0	0.0	54.5	37.6	55.4	0.0	0.0	58.0	58.0	70	N	-	-	39.9	Y	N	N
N5363	25	82.5	D2-9	-	18.0	0.0	54.5	37.6	55.4	0.0	0.0	58.0	58.0	70	N	-	-	39.9	Y	N	N
N5363	26	85.3	D2-9	-	18.0	0.0	54.6	37.5	55.4	0.0	0.0	58.1	58.1	70	N	-	-	40.0	Y	N	N
N5363	27	88.1	D2-9	-	18.0	0.0	54.7	37.5	55.4	0.0	0.0	58.1	58.1	70	N	-	-	40.0	Y	N	N
N5363	28	90.9	D2-9	-	18.0	0.0	54.7	37.5	55.3	0.0	0.0	58.1	58.1	70	N	-	-	40.0	Y	N	N
N5363	29	93.7	D2-9	-	17.9	0.0	54.7	37.5	55.3	0.0	0.0	58.1	58.1	70	N	-	-	40.1	Y	N	N
N5363	30	96.5	D2-9	-	18.0	0.0	54.8	37.5	55.3	0.0	0.0	58.1	58.1	70	N	-	-	40.0	Y	N	N
N5363	31	99.3	D2-9	-	18.0	0.0	54.9	37.5	55.3	0.0	0.0	58.1	58.1	70	N	-	-	40.0	Y	N	N
N5363	32	102.1	D2-9	-	17.9	0.0	55.0	37.4	55.4	0.0	0.0	58.2	58.2	70	N	-	-	40.2	Y	N	N
N5363	33	104.9	D2-9	-	17.9	0.0	55.2	37.4	55.4	0.0	0.0	58.3	58.3	70	N	-	-	40.3	Y	N	N
N5363	34	107.7	D2-9	-	17.8	0.0	55.5	37.4	55.4	0.0	0.0	58.5	58.5	70	N	-	-	40.6	Y	N	N
N5363	35	110.5	D2-9	-	18.0	0.0	55.9	37.4	55.4	0.0	0.0	58.7	58.7	70	N	-	-	40.6	Y	N	N
N5363	36	113.3	D2-9	-	18.5	0.0	56.5	37.4	55.5	0.0	0.0	59.1	59.1	70	N	-	-	40.5	Y	N	N
N5364	1	15.3	D2-9	-	13.9	0.0	57.0	8.5	52.9	0.0	0.0	58.5	58.5	70	N	-	-	44.4	Y	N	N
N5364	2	18.1	D2-9	-	14.0	0.0	57.8	8.5	52.9	0.0	0.0	59.1	59.1	70	N	-	-	44.9	Y	N	N
N5364	3	20.9	D2-9	-	14.0	0.0	58.6	8.5	52.9	0.0	0.0	59.6	59.6	70	N	-	-	45.4	Y	N	N
N5364	4	23.7	D2-9	-	14.0	0.0	59.3	8.5	52.9	0.0	0.0	60.2	60.2	70	N	-	-	46.0	Y	N	N
N5364	5	26.5	D2-9	-	14.0	0.0	60.0	8.5	52.9	0.0	0.0	60.8	60.8	70	N	-	-	46.6	Y	N	N
N5364	6	29.3	D2-9	-	14.0	0.0	60.7	8.5	52.9	0.0	0.0	61.4	61.4	70	N	-	-	47.2	Y	N	N
N5364	7	32.1	D2-9	-	14.0	0.0	61.4	8.5	52.9	0.0	0.0	61.9	61.9	70	N	-	-	47.7	Y	N	N
N5364	8	34.9	D2-9	-	14.1	0.0	62.0	8.5	52.9	0.0	0.0	62.5	62.5	70	N	-	-	48.2	Y	N	N
N5364	9	37.7	D2-9	-	14.1	0.0	62.7	8.5	52.9	0.0	0.0	63.1	63.1	70	N	-	-	48.8	Y	N	N
N5364	10	40.5	D2-9	-	14.0	0.0	63.3	8.6	53.0	0.0	0.0	63.6	63.6	70	N	-	-	49.4	Y	N	N
N5364	11	43.3	D2-9	-	14.0	0.0	63.9	8.6	53.0	0.0	0.0	64.2	64.2	70	N	-	-	50.0	Y	N	N
N5364	12	46.1	D2-9	-	14.0	0.0	64.6	8.6	53.0	0.0	0.0	64.9	64.9	70	N	-	-	50.7	Y	N	N
N5364	13	48.9	D2-9	-	13.7	0.0	65.0	8.7	52.9	0.0	0.0	65.3	65.3	70	N	-	-	51.4	Y	N	N
N5364	14	51.7	D2-9	-	14.1	0.0	65.3	8.3	53.0	0.0	0.0	65.6	65.6	70	N	-	-	51.3	Y	N	N
N5364	15	54.5	D2-9	-	14.1	0.0	65.5	9.2	53.0	0.0	0.0	65.8	65.8	70	N	-	-	51.5	Y	N	N
N5364	16	57.3	D2-9	-	14.2	0.0	65.7	10.1	53.0	0.0	0.0	65.9	65.9	70	N	-	-	51.5	Y	N	N
N5364	17	60.1	D2-9	-	14.3	0.0	65.8	11.2	53.0	0.0	0.0	66.0	66.0	70	N	-	-	51.5	Y	N	N
N5364	18	62.9	D2-9	-	14.4	0.0	65.9	12.3	53.0	0.0	0.0	66.1	66.1	70	N	-	-	51.5	Y	N	N
N5364	19	65.7	D2-9	-	14.4	0.0	66.0	13.6	53.0	0.0	0.0	66.2	66.2	70	N	-	-	51.6	Y	N	N
N5364	20	68.5	D2-9	-	14.4	0.0	66.0	14.8	53.0	0.0	0.0	66.2	66.2	70	N	-	-	51.6	Y	N	N
N5364	21	71.3	D2-9	-	14.4	0.0	66.1	16.1	53.0	0.0	0.0	66.3	66.3	70	N	-	-	51.7	Y	N	N
N5364	22	74.1	D2-9	-	14.4	0.0	66.2	17.3	53.0	0.0	0.0	66.4	66.4	70	N	-	-	51.8	Y	N	N
N5364	23	76.9	D2-9	-	14.4	0.0	66.2	18.3	52.9	0.0	0.0	66.4	66.4	70	N	-	-	51.8	Y	N	N
N5364	24	79.7	D2-9	-	14.4	0.0	66.3	19.3	52.9	0.0	0.0	66.5	66.5	70	N	-	-	51.9	Y	N	N
N5364	25	82.5	D2-9	-	14.4	0.0	66.4	20.2	52.9	0.0	0.0	66.6	66.6	70	N	-	-	52.0	Y	N	N
N5364	26	85.3	D2-9	-	14.4	0.0	66.4	21.3	52.9	0.0	0.0	66.6	66.6	70	N	-	-	52.0	Y	N	N
N5364	27	88.1	D2-9	-	14.3	0.0	66.5	22.5	52.9	0.0	0.0	66.6	66.6	70	N	-	-	52.1	Y	N	N
N5364	28	90.9	D2-9	-	14.3	0.0	66.5	23.7	52.9	0.0	0.0	66.7	66.7	70	N	-	-	52.2	Y	N	N
N5364	29	93.7	D2-9	-	14.3	0.0	66.5	25.0	52.9	0.0	0.0	66.7	66.7	70	N	-	-	52.2	Y	N	N
N5364	30	96.5	D2-9	-	14.2	0.0	66.5	26.3	52.8	0.0	0.0	66.7	66.7	70	N	-	-	52.3	Y	N	N
N5364	31	99.3	D2-9	-	14.4	0.0	66.5	27.8	52.9	0.0	0.0	66.7	66.7	70	N	-	-	52.1	Y	N	N
N5364	32	102.1	D2-9	-	14.6	0.0	66.5	29.5	52.8	0.0	0.0	66.7	66.7	70	N	-	-	52.0	Y	N	N
N5364	33	104.9	D2-9	-	14.9	0.0	66.6	31.5	52.8	0.0	0.0	66.7	66.7	70	N	-	-	51.7	Y	N	N
N5364	34	107.7	D2-9	-	15.2	0.0	66.5	33.7	52.9	0.0	0.0	66.7	66.7	70	N	-	-	51.4	Y	N	N
N5364	35	110.5	D2-9	-	15.6	0.0	66.5	36.1	52.9	0.0	0.0	66.7	66.7	70	N	-	-	51.0	Y	N	N
N5364	36	113.3	D2-9	-	16.0	0.0	66.5	37.4	53.0	0.0	0.0	66.7	66.7	70	N	-	-	50.6	Y	N	N
N5365	1	15.6	D2-9	-	0.0	0.0	43.5	0.0	16.1	0.0	0.0	43.5	43.5	70	N	-	-	40.5	Y	N	N
N5365	2	18.4	D2-9	-	0.0	0.0	44.4	0.0	17.2	0.0	0.0	44.4	44.4	70	N	-	-	41.4	Y	N	N
N5365	3	21.2	D2-9	-	0.0	0.0	45.4	0.0	18.7	0.0	0.0	45.4	45.4	70	N	-	-	42.4	Y	N	N
N5365	4	24.0	D2-9	-	0.0	0.0	46.6	0.0	20.8	0.0	0.0	46.6	46.6	70	N	-	-	43.6	Y	N	N
N5365	5	26.8	D2-9	-	0.0	0.0	47.7	0.0	23.8	0.0	0.0	47.7	47.7	70	N	-	-	44.7	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
N5365	6	29.6	D2-9	-	0.0	0.0	48.7	0.0	27.5	0.0	0.0	48.7	48.7	70	N	-	-	45.7	Y	N	N
N5365	7	32.4	D2-9	-	0.0	0.0	49.7	0.0	29.7	0.0	0.0	49.8	49.8	70	N	-	-	46.8	Y	N	N
N5365	8	35.2	D2-9	-	0.0	0.0	50.7	0.0	30.2	0.0	0.0	50.8	50.8	70	N	-	-	47.8	Y	N	N
N5365	9	38.0	D2-9	-	0.0	0.0	51.9	0.0	30.4	0.0	0.0	51.9	51.9	70	N	-	-	48.9	Y	N	N
N5365	10	40.8	D2-9	-	0.0	0.0	53.1	0.0	30.3	0.0	0.0	53.1	53.1	70	N	-	-	50.1	Y	N	N
N5365	11	43.6	D2-9	-	0.0	0.0	54.4	0.0	30.3	0.0	0.0	54.4	54.4	70	N	-	-	51.4	Y	N	N
N5365	12	46.4	D2-9	-	0.0	0.0	55.8	0.0	30.3	0.0	0.0	55.8	55.8	70	N	-	-	52.8	Y	N	N
N5365	13	49.2	D2-9	-	0.0	0.0	57.7	0.0	30.3	0.0	0.0	57.7	57.7	70	N	-	-	54.7	Y	N	N
N5365	14	52.0	D2-9	-	0.0	0.0	59.0	0.0	30.2	0.0	0.0	59.0	59.0	70	N	-	-	56.0	Y	N	N
N5365	15	54.8	D2-9	-	0.0	0.0	60.6	0.0	30.2	0.0	0.0	60.6	60.6	70	N	-	-	57.6	Y	N	N
N5365	16	57.6	D2-9	-	0.0	0.0	61.9	0.0	30.2	0.0	0.0	61.9	61.9	70	N	-	-	58.9	Y	N	N
N5365	17	60.4	D2-9	-	0.0	0.0	62.6	0.0	30.2	0.0	0.0	62.6	62.6	70	N	-	-	59.6	Y	N	N
N5365	18	63.2	D2-9	-	0.0	0.0	63.0	0.0	30.1	0.0	0.0	63.0	63.0	70	N	-	-	60.0	Y	N	N
N5365	19	66.0	D2-9	-	0.0	0.0	63.3	0.0	30.1	0.0	0.0	63.3	63.3	70	N	-	-	60.3	Y	N	N
N5365	20	68.8	D2-9	-	0.0	0.0	63.5	0.0	30.1	0.0	0.0	63.5	63.5	70	N	-	-	60.5	Y	N	N
N5365	21	71.6	D2-9	-	0.0	0.0	63.6	0.0	30.0	0.0	0.0	63.6	63.6	70	N	-	-	60.6	Y	N	N
N5365	22	74.4	D2-9	-	0.0	0.0	63.7	0.0	30.0	0.0	0.0	63.7	63.7	70	N	-	-	60.7	Y	N	N
N5365	23	77.2	D2-9	-	0.0	0.0	63.7	0.0	29.9	0.0	0.0	63.7	63.7	70	N	-	-	60.7	Y	N	N
N5365	24	80.0	D2-9	-	0.0	0.0	63.7	0.0	29.9	0.0	0.0	63.7	63.7	70	N	-	-	60.7	Y	N	N
N5365	25	82.8	D2-9	-	0.0	0.0	63.8	0.0	29.9	0.0	0.0	63.8	63.8	70	N	-	-	60.8	Y	N	N
N5365	26	85.6	D2-9	-	0.0	0.0	63.8	0.0	29.8	0.0	0.0	63.8	63.8	70	N	-	-	60.8	Y	N	N
N5365	27	88.4	D2-9	-	0.0	0.0	63.8	0.0	29.8	0.0	0.0	63.8	63.8	70	N	-	-	60.8	Y	N	N
N5365	28	91.2	D2-9	-	0.0	0.0	63.8	0.0	29.8	0.0	0.0	63.8	63.8	70	N	-	-	60.8	Y	N	N
N5365	29	94.0	D2-9	-	0.0	0.0	63.9	0.0	29.7	0.0	0.0	63.9	63.9	70	N	-	-	60.9	Y	N	N
N5365	30	96.8	D2-9	-	0.0	0.0	63.9	0.0	29.7	0.0	0.0	63.9	63.9	70	N	-	-	60.9	Y	N	N
N5365	31	99.6	D2-9	-	0.0	0.0	63.9	0.0	29.6	0.0	0.0	63.9	63.9	70	N	-	-	60.9	Y	N	N
N5365	32	102.4	D2-9	-	0.0	0.0	64.0	0.0	29.6	0.0	0.0	64.0	64.0	70	N	-	-	61.0	Y	N	N
N5365	33	105.2	D2-9	-	0.0	0.0	64.0	0.0	29.6	0.0	0.0	64.0	64.0	70	N	-	-	61.0	Y	N	N
N5365	34	108.0	D2-9	-	0.0	0.0	64.1	0.0	29.6	0.0	0.0	64.1	64.1	70	N	-	-	61.1	Y	N	N
N5365	35	110.8	D2-9	-	0.0	0.0	64.1	0.0	29.7	0.0	0.0	64.1	64.1	70	N	-	-	61.1	Y	N	N
N5365	36	113.6	D2-9	-	0.0	0.0	64.2	0.0	29.7	0.0	0.0	64.2	64.2	70	N	-	-	61.2	Y	N	N
N5365	37	116.4	D2-9	-	0.0	0.0	64.2	0.0	29.8	0.0	0.0	64.2	64.2	70	N	-	-	61.2	Y	N	N
N5365	38	119.2	D2-9	-	0.0	0.0	64.3	0.0	29.9	0.0	0.0	64.3	64.3	70	N	-	-	61.3	Y	N	N
N5365	39	122.0	D2-9	-	0.0	0.0	64.3	0.0	30.2	0.0	0.0	64.3	64.3	70	N	-	-	61.3	Y	N	N
N5365	40	124.8	D2-9	-	0.0	0.0	64.4	0.0	30.6	0.0	0.0	64.4	64.4	70	N	-	-	61.4	Y	N	N
N5366	1	15.6	D2-9	-	20.8	0.0	41.8	0.0	57.4	0.0	0.0	57.5	57.5	70	N	-	-	36.7	Y	N	N
N5366	2	18.4	D2-9	-	20.8	0.0	43.2	0.0	57.4	0.0	0.0	57.6	57.6	70	N	-	-	36.8	Y	N	N
N5366	3	21.2	D2-9	-	20.8	0.0	44.8	0.0	57.4	0.0	0.0	57.6	57.6	70	N	-	-	36.8	Y	N	N
N5366	4	24.0	D2-9	-	20.8	0.0	46.4	0.0	57.4	0.0	0.0	57.7	57.7	70	N	-	-	36.9	Y	N	N
N5366	5	26.8	D2-9	-	20.8	0.0	47.8	0.0	57.3	0.0	0.0	57.8	57.8	70	N	-	-	37.0	Y	N	N
N5366	6	29.6	D2-9	-	20.8	0.0	49.0	0.0	57.3	0.0	0.0	57.9	57.9	70	N	-	-	37.1	Y	N	N
N5366	7	32.4	D2-9	-	20.8	0.0	50.3	0.0	57.2	0.0	0.0	58.0	58.0	70	N	-	-	37.2	Y	N	N
N5366	8	35.2	D2-9	-	20.8	0.0	51.6	0.0	57.2	0.0	0.0	58.3	58.3	70	N	-	-	37.5	Y	N	N
N5366	9	38.0	D2-9	-	20.8	0.0	53.0	0.0	57.1	0.0	0.0	58.5	58.5	70	N	-	-	37.7	Y	N	N
N5366	10	40.8	D2-9	-	20.8	0.0	54.8	0.0	57.1	0.0	0.0	59.1	59.1	70	N	-	-	38.3	Y	N	N
N5366	11	43.6	D2-9	-	20.8	0.0	56.6	0.0	57.0	0.0	0.0	59.8	59.8	70	N	-	-	39.0	Y	N	N
N5366	12	46.4	D2-9	-	20.8	0.0	58.2	0.0	57.0	0.0	0.0	60.7	60.7	70	N	-	-	39.9	Y	N	N
N5366	13	49.2	D2-9	-	20.8	0.0	59.8	0.0	56.9	0.0	0.0	61.6	61.6	70	N	-	-	40.8	Y	N	N
N5366	14	52.0	D2-9	-	20.8	0.0	61.3	0.0	56.8	0.0	0.0	62.6	62.6	70	N	-	-	41.8	Y	N	N
N5366	15	54.8	D2-9	-	20.8	0.0	62.6	0.0	56.8	0.0	0.0	63.6	63.6	70	N	-	-	42.8	Y	N	N
N5366	16	57.6	D2-9	-	20.7	0.0	63.5	0.0	56.7	0.0	0.0	64.3	64.3	70	N	-	-	43.6	Y	N	N
N5366	17	60.4	D2-9	-	20.7	0.0	64.0	0.0	56.6	0.0	0.0	64.8	64.8	70	N	-	-	44.1	Y	N	N
N5366	18	63.2	D2-9	-	20.7	0.0	64.4	0.0	56.6	0.0	0.0	65.1	65.1	70	N	-	-	44.4	Y	N	N
N5366	19	66.0	D2-9	-	20.7	0.0	64.7	0.0	56.5	0.0	0.0	65.3	65.3	70	N	-	-	44.6	Y	N	N
N5366	20	68.8	D2-9	-	20.7	0.0	64.9	0.0	56.5	0.0	0.0	65.5	65.5	70	N	-	-	44.8	Y	N	N
N5366	21	71.6	D2-9	-	20.7	0.0	65.0	0.0	56.5	0.0	0.0	65.6	65.6	70	N	-	-	44.9	Y	N	N
N5366	22	74.4	D2-9	-	20.6	0.0	65.1	0.0	56.5	0.0	0.0	65.7	65.7	70	N	-	-	45.1	Y	N	N
N5366	23	77.2	D2-9	-	20.7	0.0	65.2	0.0	56.5	0.0	0.0	65.7	65.7	70	N	-	-	45.0	Y	N	N
N5366	24	80.0	D2-9	-	20.6	0.0	65.3	0.0	56.4	0.0	0.0	65.8	65.8	70	N	-	-	45.2	Y	N	N
N5366	25	82.8	D2-9	-	20.7	0.0	65.3	0.0	56.3	0.0	0.0	65.8	65.8	70	N	-	-	45.1	Y	N	N
N5366	26	85.6	D2-9	-	20.7	0.0	65.4	0.0	56.2	0.0	0.0	65.9	65.9	70	N	-	-	45.2	Y	N	N
N5366	27	88.4	D2-9	-	20.6	0.0	65.4	0.0	56.3	0.0	0.0	65.9	65.9	70	N	-	-	45.3	Y	N	N
N5366	28	91.2	D2-9	-	20.6	0.0	65.5	0.0	56.2	0.0	0.0	66.0	66.0	70	N	-	-	45.4	Y	N	N
N5366	29	94.0	D2-9	-	20.6	0.0	65.5	0.0	56.1	0.0	0.0	66.0	66.0	70	N	-	-	45.4	Y	N	N
N5366	30	96.8	D2-9	-	20.6	0.0	65.5	0.0	56.0	0.0	0.0	66.0	66.0	70	N	-	-	45.4	Y	N	N
N5366	31	99.6	D2-9	-	20.6	0.0	65.6	0.0	56.0	0.0	0.0	66.0	66.0	70	N	-	-	45.4	Y	N	N
N5366	32	102.4	D2-9	-	20.6	0.0	65.6	0.0	55.9	0.0	0.0	66.0	66.0	70	N	-	-	45.4	Y	N	N
N5366	33	105.2	D2-9	-	20.5	0.0	65.6	0.0	55.8	0.0	0.0	66.1	66.1	70	N	-	-	45.6	Y	N	N
N5366	34	108.0	D2-9	-	20.6	0.0	65.6	0.0	55.7	0.0	0.0	66.1	66.1	70	N	-	-	45.5	Y	N	N
N5366	35	110.8	D2-9	-	20.5	0.0	65.7	0.0	55.6	0.0	0.0	66.1	66.1	70	N	-	-	45.6	Y	N	N
N5366	36	113.6	D2-9	-	20.8	0.0	65.7	0.0	55.6	0.0	0.0	66.1	66.1	70	N	-	-	45.3	Y	N	N
N5366	37	116.4	D2-9	-	21.6	0.0	65.7	0.0	55.5	0.0	0.0	66.1	66.1	70	N	-	-	44.5	Y	N	N
N5366	38	119.2	D2-9	-	22.5	0.0	65.7	0.0	55.4	0.0	0.0	66.1	66.1	70	N	-	-	43.6	Y	N	N
N5366	39	122.0	D2-9	-	23.5	0.0	65.7	0.0	55.3	0.0	0.0	66.1	66.1	70	N	-	-	42.6	Y	N	N
N5366	40	124.8	D2-9	-	24.7	0.0	65.8	0.0	55.3	0.0	0.0	66.1	66.1	70	N	-	-	41.4	Y	N	N
N5367	1	15.9	D2-9	-	0.0	0.0	44.5	0.0	12.1	0.0	0.0	44.5	44.5	70	N	-	-	41.5	Y	N	N
N5367	2	18.7	D2-9	-	0.0	0.0	45.4	0.0	12.9	0.0	0.0	45.4	45.4	70	N	-	-	42.4	Y	N	N
N5367	3	21.5	D2-9	-	0.0	0.0	46.3	0.0	14.0	0.0	0.0	46.3	46.3	70	N	-	-	43.3	Y	N	N
N5367	4	24.3	D2-9	-	0.0	0.0	47.2	0.0	15.2	0.0	0.0	47.2	47.2	70	N	-	-	44.2	Y	N	N
N5367	5	27.1	D2-9	-	0.0	0.0	48.1	0.0	16.6	0.0	0.0	48.1	48.1	70	N	-	-	45.1	Y	N	N
N5367	6	29.9	D2-9	-	0.0	0.0	49.0	0.0	17.9	0.0	0.0	49.0	49.0	70	N	-	-	46.0	Y	N	N
N5367	7	32.7	D2-9	-	0.0	0.0	50.0	0.0	19.5	0.0	0.0	50.0	50.0	70	N	-	-	47.0	Y	N	N
N5367	8	35.5	D2-9	-	0.0	0.0	51.0	0.0	21.5	0.0	0.0	51.0	51.0	70	N	-	-	48.0	Y	N	N
N5367	9	38.3	D2-9	-	0.0	0.0	52.1	0.0	24.1	0.0	0.0	52.1	52.1	70	N	-	-	49.1	Y	N	N
N5367	10	41.1	D2-9	-	0.0	0.0	53.5	0.0	27.3	0.0	0.0	53.5	53.5	70	N	-	-	50.5	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

				WITHOUT PROJECT	WITH PROJECT														
Assessment Point			Location	Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	New Roads[2]						Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]				C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
N5367	11	43.9	D2-9	-	0.0	0.0	54.6	0.0	30.3	0.0	0.0	54.6	54.6	70	N	-	-	51.6	Y	N	N
N5367	12	46.7	D2-9	-	0.0	0.0	56.0	0.0	31.7	0.0	0.0	56.0	56.0	70	N	-	-	53.0	Y	N	N
N5367	13	49.5	D2-9	-	0.0	0.0	57.3	0.0	32.4	0.0	0.0	57.3	57.3	70	N	-	-	54.3	Y	N	N
N5367	14	52.3	D2-9	-	0.0	0.0	58.4	0.0	32.7	0.0	0.0	58.4	58.4	70	N	-	-	55.4	Y	N	N
N5367	15	55.1	D2-9	-	0.0	0.0	59.5	0.0	32.8	0.0	0.0	59.6	59.6	70	N	-	-	56.6	Y	N	N
N5367	16	57.9	D2-9	-	0.0	0.0	60.6	0.0	32.7	0.0	0.0	60.6	60.6	70	N	-	-	57.6	Y	N	N
N5367	17	60.7	D2-9	-	0.0	0.0	61.5	0.0	32.8	0.0	0.0	61.5	61.5	70	N	-	-	58.5	Y	N	N
N5367	18	63.5	D2-9	-	0.0	0.0	62.1	0.0	32.8	0.0	0.0	62.1	62.1	70	N	-	-	59.1	Y	N	N
N5367	19	66.3	D2-9	-	0.0	0.0	62.6	0.0	32.8	0.0	0.0	62.6	62.6	70	N	-	-	59.6	Y	N	N
N5367	20	69.1	D2-9	-	0.0	0.0	62.9	0.0	32.7	0.0	0.0	62.9	62.9	70	N	-	-	59.9	Y	N	N
N5367	21	71.9	D2-9	-	0.0	0.0	63.2	0.0	32.7	0.0	0.0	63.2	63.2	70	N	-	-	60.2	Y	N	N
N5367	22	74.7	D2-9	-	0.0	0.0	63.4	0.0	32.7	0.0	0.0	63.4	63.4	70	N	-	-	60.4	Y	N	N
N5367	23	77.5	D2-9	-	0.0	0.0	63.6	0.0	32.7	0.0	0.0	63.6	63.6	70	N	-	-	60.6	Y	N	N
N5367	24	80.3	D2-9	-	0.0	0.0	63.6	0.0	32.7	0.0	0.0	63.6	63.6	70	N	-	-	60.6	Y	N	N
N5367	25	83.1	D2-9	-	0.0	0.0	63.7	0.0	32.7	0.0	0.0	63.7	63.7	70	N	-	-	60.7	Y	N	N
N5367	26	85.9	D2-9	-	0.0	0.0	63.8	0.0	32.7	0.0	0.0	63.8	63.8	70	N	-	-	60.8	Y	N	N
N5367	27	88.7	D2-9	-	0.0	0.0	63.9	0.0	32.6	0.0	0.0	63.9	63.9	70	N	-	-	60.9	Y	N	N
N5367	28	91.5	D2-9	-	0.0	0.0	63.9	0.0	32.6	0.0	0.0	63.9	63.9	70	N	-	-	60.9	Y	N	N
N5367	29	94.3	D2-9	-	0.0	0.0	64.0	0.0	32.6	0.0	0.0	64.0	64.0	70	N	-	-	61.0	Y	N	N
N5367	30	97.1	D2-9	-	0.0	0.0	64.0	0.0	32.6	0.0	0.0	64.0	64.0	70	N	-	-	61.0	Y	N	N
N5367	31	99.9	D2-9	-	0.0	0.0	64.1	0.0	32.5	0.0	0.0	64.1	64.1	70	N	-	-	61.1	Y	N	N
N5367	32	102.7	D2-9	-	0.0	0.0	64.1	0.0	32.5	0.0	0.0	64.1	64.1	70	N	-	-	61.1	Y	N	N
N5367	33	105.5	D2-9	-	0.0	0.0	64.2	0.0	32.5	0.0	0.0	64.2	64.2	70	N	-	-	61.2	Y	N	N
N5367	34	108.3	D2-9	-	0.0	0.0	64.2	0.0	32.5	0.0	0.0	64.2	64.2	70	N	-	-	61.2	Y	N	N
N5367	35	111.1	D2-9	-	0.0	0.0	64.2	0.0	32.4	0.0	0.0	64.2	64.2	70	N	-	-	61.2	Y	N	N
N5367	36	113.9	D2-9	-	0.0	0.0	64.2	0.0	32.4	0.0	0.0	64.2	64.2	70	N	-	-	61.2	Y	N	N
N5367	37	116.7	D2-9	-	0.0	0.0	64.3	0.0	32.4	0.0	0.0	64.3	64.3	70	N	-	-	61.3	Y	N	N
N5367	38	119.5	D2-9	-	0.0	0.0	64.3	0.0	32.4	0.0	0.0	64.3	64.3	70	N	-	-	61.3	Y	N	N
N5367	39	122.3	D2-9	-	0.0	0.0	64.3	0.0	32.3	0.0	0.0	64.3	64.3	70	N	-	-	61.3	Y	N	N
N5367	40	125.1	D2-9	-	0.0	0.0	64.3	0.0	32.3	0.0	0.0	64.3	64.3	70	N	-	-	61.3	Y	N	N
N5368	1	15.9	D2-9	-	29.8	0.0	48.5	0.0	69.1	0.0	0.0	69.1	69.1	70	N	-	-	39.3	Y	N	N
N5368	2	18.7	D2-9	-	31.8	0.0	49.2	0.0	68.9	0.0	0.0	69.0	69.0	70	N	-	-	37.2	Y	N	N
N5368	3	21.5	D2-9	-	33.7	0.0	49.9	0.0	68.7	0.0	0.0	68.8	68.8	70	N	-	-	35.1	Y	N	N
N5368	4	24.3	D2-9	-	35.5	0.0	50.6	0.0	68.4	0.0	0.0	68.5	68.5	70	N	-	-	33.0	Y	N	N
N5368	5	27.1	D2-9	-	37.7	0.0	51.3	0.0	68.1	0.0	0.0	68.2	68.2	70	N	-	-	30.5	Y	N	N
N5368	6	29.9	D2-9	-	39.6	0.0	52.1	0.0	67.9	0.0	0.0	68.0	68.0	70	N	-	-	28.4	Y	N	N
N5368	7	32.7	D2-9	-	41.9	0.0	53.0	0.0	67.6	0.0	0.0	67.8	67.8	70	N	-	-	25.9	Y	N	N
N5368	8	35.5	D2-9	-	44.1	0.0	54.0	0.0	67.3	0.0	0.0	67.5	67.5	70	N	-	-	23.4	Y	N	N
N5368	9	38.3	D2-9	-	46.1	0.0	55.0	0.0	67.0	0.0	0.0	67.3	67.3	70	N	-	-	21.2	Y	N	N
N5368	10	41.1	D2-9	-	47.1	0.0	56.2	0.0	66.8	0.0	0.0	67.2	67.2	70	N	-	-	20.1	Y	N	N
N5368	11	43.9	D2-9	-	47.6	0.0	57.2	0.0	66.5	0.0	0.0	67.0	67.1	70	N	-	-	19.5	Y	N	N
N5368	12	46.7	D2-9	-	47.8	0.0	58.5	0.0	66.2	0.0	0.0	66.9	67.0	70	N	-	-	19.2	Y	N	N
N5368	13	49.5	D2-9	-	47.9	0.0	59.3	0.0	66.1	0.0	0.0	66.9	66.9	70	N	-	-	19.0	Y	N	N
N5368	14	52.3	D2-9	-	47.9	0.0	60.2	0.0	65.9	0.0	0.0	66.9	67.0	70	N	-	-	19.1	Y	N	N
N5368	15	55.1	D2-9	-	47.9	0.0	60.9	0.0	65.7	0.0	0.0	66.9	67.0	70	N	-	-	19.1	Y	N	N
N5368	16	57.9	D2-9	-	47.9	0.0	61.6	0.0	65.4	0.0	0.0	66.9	67.0	70	N	-	-	19.1	Y	N	N
N5368	17	60.7	D2-9	-	47.8	0.0	62.1	0.0	65.3	0.0	0.0	67.0	67.0	70	N	-	-	19.2	Y	N	N
N5368	18	63.5	D2-9	-	47.8	0.0	62.4	0.0	65.1	0.0	0.0	67.0	67.0	70	N	-	-	19.2	Y	N	N
N5368	19	66.3	D2-9	-	47.8	0.0	62.7	0.0	64.9	0.0	0.0	67.0	67.0	70	N	-	-	19.2	Y	N	N
N5368	20	69.1	D2-9	-	47.8	0.0	63.0	0.0	64.8	0.0	0.0	67.0	67.1	70	N	-	-	19.3	Y	N	N
N5368	21	71.9	D2-9	-	47.8	0.0	63.2	0.0	64.7	0.0	0.0	67.0	67.0	70	N	-	-	19.2	Y	N	N
N5368	22	74.7	D2-9	-	47.8	0.0	63.3	0.0	64.5	0.0	0.0	67.0	67.0	70	N	-	-	19.2	Y	N	N
N5368	23	77.5	D2-9	-	47.7	0.0	63.4	0.0	64.4	0.0	0.0	67.0	67.0	70	N	-	-	19.3	Y	N	N
N5368	24	80.3	D2-9	-	47.7	0.0	63.6	0.0	64.2	0.0	0.0	66.9	67.0	70	N	-	-	19.3	Y	N	N
N5368	25	83.1	D2-9	-	47.7	0.0	63.7	0.0	64.1	0.0	0.0	66.9	66.9	70	N	-	-	19.2	Y	N	N
N5368	26	85.9	D2-9	-	47.7	0.0	63.7	0.0	64.0	0.0	0.0	66.9	66.9	70	N	-	-	19.2	Y	N	N
N5368	27	88.7	D2-9	-	47.7	0.0	63.8	0.0	63.8	0.0	0.0	66.8	66.8	70	N	-	-	19.1	Y	N	N
N5368	28	91.5	D2-9	-	47.6	0.0	63.9	0.0	63.7	0.0	0.0	66.8	66.8	70	N	-	-	19.2	Y	N	N
N5368	29	94.3	D2-9	-	47.6	0.0	64.0	0.0	63.6	0.0	0.0	66.8	66.8	70	N	-	-	19.2	Y	N	N
N5368	30	97.1	D2-9	-	47.5	0.0	64.0	0.0	63.4	0.0	0.0	66.7	66.8	70	N	-	-	19.3	Y	N	N
N5368	31	99.9	D2-9	-	47.5	0.0	64.1	0.0	63.3	0.0	0.0	66.7	66.8	70	N	-	-	19.3	Y	N	N
N5368	32	102.7	D2-9	-	47.5	0.0	64.1	0.0	63.2	0.0	0.0	66.7	66.7	70	N	-	-	19.2	Y	N	N
N5368	33	105.5	D2-9	-	47.4	0.0	64.1	0.0	63.1	0.0	0.0	66.6	66.7	70	N	-	-	19.3	Y	N	N
N5368	34	108.3	D2-9	-	47.4	0.0	64.1	0.0	62.9	0.0	0.0	66.6	66.6	70	N	-	-	19.2	Y	N	N
N5368	35	111.1	D2-9	-	47.4	0.0	64.2	0.0	62.8	0.0	0.0	66.6	66.6	70	N	-	-	19.2	Y	N	N
N5368	36	113.9	D2-9	-	47.4	0.0	64.1	0.0	62.7	0.0	0.0	66.5	66.6	70	N	-	-	19.2	Y	N	N
N5368	37	116.7	D2-9	-	47.3	0.0	64.2	0.0	62.6	0.0	0.0	66.5	66.5	70	N	-	-	19.2	Y	N	N
N5368	38	119.5	D2-9	-	47.3	0.0	64.2	0.0	62.5	0.0	0.0	66.4	66.5	70	N	-	-	19.2	Y	N	N
N5368	39	122.3	D2-9	-	47.3	0.0	64.2	0.0	62.4	0.0	0.0	66.4	66.5	70	N	-	-	19.2	Y	N	N
N5368	40	125.1	D2-9	-	47.3	0.0	64.2	0.0	62.3	0.0	0.0	66.4	66.4	70	N	-	-	19.1	Y	N	N
N5369	1	15.9	D2-9	-	33.1	0.0	30.8	14.6	70.4	0.0	0.0	70.4	70.4	70	N	-	-	37.3	Y	N	N
N5369	2	18.7	D2-9	-	35.1	0.0	30.8	14.6	70.3	0.0	0.0	70.3	70.3	70	N	-	-	35.2	Y	N	N
N5369	3	21.5	D2-9	-	37.5	0.0	30.8	14.6	70.2	0.0	0.0	70.2	70.2	70	N	-	-	32.7	Y	N	N
N5369	4	24.3	D2-9	-	40.4	0.0	30.8	14.6	69.9	0.0	0.0	69.9	69.9	70	N	-	-	29.5	Y	N	N
N5369	5	27.1	D2-9	-	44.5	0.0	30.8	14.6	69.8	0.0	0.0	69.8	69.8	70	N	-	-	25.3	Y	N	N
N5369	6	29.9	D2-9	-	47.3	0.0	30.8	14.5	69.5	0.0	0.0	69.5	69.6	70	N	-	-	22.3	Y	N	N
N5369	7	32.7	D2-9	-	48.4	0.0	30.8	14.5	69.4	0.0	0.0	69.4	69.4	70	N	-	-	21.0	Y	N	N
N5369	8	35.5	D2-9	-	48.9	0.0	30.8	14.5	69.2	0.0	0.0	69.2	69.2	70	N	-	-	20.3	Y	N	N
N5369	9	38.3	D2-9	-	49.3	0.0	30.8	14.5	69.0	0.0	0.0	69.0	69.0	70	N	-	-	19.7	Y	N	N
N5369	10	41.1	D2-9	-	49.6	0.0	30.7	14.5	68.8	0.0	0.0	68.8	68.8	70	N	-	-	19.2	Y	N	N
N5369	11	43.9	D2-9	-	49.7	0.0	30.7	14.4	68.6	0.0	0.0	68.6	68.6	70	N	-	-	18.9	Y	N	N
N5369	12	46.7	D2-9	-	49.8	0.0	30.7	14.5	68.3	0.0	0.0	68.3	68.4	70	N	-	-	18.6	Y	N	N
N5369	13	49.5	D2-9	-	49.9	0.0	30.7	14.6	68.2	0.0	0.0	68.2	68.2	70	N	-	-	18.3	Y	N	N
N5369	14	52.3	D2-9	-	49.9	0.0	30.7	14.6	68.0	0.0	0.0	68.0	68.0	70	N	-	-	18.1	Y	N	N
N5369	15	55.1	D2-9	-	49.9	0.0	30.7	14.6	67.8	0.0	0.0	67.8	67.9	70	N	-	-	18.0	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
N5369	16	57.9	D2-9	-	49.8	0.0	30.7	14.7	67.6	0.0	0.0	67.6	67.7	70	N	-	-	17.9	Y	N	N
N5369	17	60.7	D2-9	-	49.8	0.0	30.6	14.6	67.4	0.0	0.0	67.4	67.5	70	N	-	-	17.7	Y	N	N
N5369	18	63.5	D2-9	-	49.8	0.0	30.6	14.6	67.3	0.0	0.0	67.3	67.3	70	N	-	-	17.5	Y	N	N
N5369	19	66.3	D2-9	-	49.8	0.0	30.6	14.7	67.1	0.0	0.0	67.1	67.2	70	N	-	-	17.4	Y	N	N
N5369	20	69.1	D2-9	-	49.8	0.0	30.6	14.7	66.9	0.0	0.0	66.9	67.0	70	N	-	-	17.2	Y	N	N
N5369	21	71.9	D2-9	-	49.8	0.0	30.5	14.7	66.7	0.0	0.0	66.7	66.8	70	N	-	-	17.0	Y	N	N
N5369	22	74.7	D2-9	-	49.8	0.0	30.5	14.8	66.6	0.0	0.0	66.6	66.7	70	N	-	-	16.9	Y	N	N
N5369	23	77.5	D2-9	-	49.7	0.0	30.5	14.7	66.5	0.0	0.0	66.5	66.5	70	N	-	-	16.8	Y	N	N
N5369	24	80.3	D2-9	-	49.7	0.0	30.5	14.7	66.4	0.0	0.0	66.4	66.4	70	N	-	-	16.7	Y	N	N
N5369	25	83.1	D2-9	-	49.7	0.0	30.5	14.7	66.2	0.0	0.0	66.2	66.3	70	N	-	-	16.6	Y	N	N
N5369	26	85.9	D2-9	-	49.7	0.0	30.4	14.7	66.1	0.0	0.0	66.1	66.2	70	N	-	-	16.5	Y	N	N
N5369	27	88.7	D2-9	-	49.7	0.0	30.4	14.8	65.9	0.0	0.0	65.9	66.0	70	N	-	-	16.3	Y	N	N
N5369	28	91.5	D2-9	-	49.7	0.0	30.4	14.8	65.8	0.0	0.0	65.8	65.9	70	N	-	-	16.2	Y	N	N
N5369	29	94.3	D2-9	-	49.6	0.0	30.3	14.8	65.6	0.0	0.0	65.6	65.7	70	N	-	-	16.1	Y	N	N
N5369	30	97.1	D2-9	-	49.6	0.0	30.3	15.7	65.5	0.0	0.0	65.5	65.6	70	N	-	-	16.0	Y	N	N
N5369	31	99.9	D2-9	-	49.6	0.0	30.3	16.7	65.4	0.0	0.0	65.4	65.5	70	N	-	-	15.9	Y	N	N
N5369	32	102.7	D2-9	-	49.6	0.0	30.3	17.7	65.3	0.0	0.0	65.3	65.4	70	N	-	-	15.8	Y	N	N
N5369	33	105.5	D2-9	-	49.5	0.0	30.3	18.9	65.2	0.0	0.0	65.2	65.3	70	N	-	-	15.8	Y	N	N
N5369	34	108.3	D2-9	-	49.5	0.0	30.4	20.0	65.1	0.0	0.0	65.1	65.2	70	N	-	-	15.7	Y	N	N
N5369	35	111.1	D2-9	-	49.5	0.0	30.5	21.1	65.0	0.0	0.0	65.0	65.1	70	N	-	-	15.6	Y	N	N
N5369	36	113.9	D2-9	-	49.5	0.0	30.6	22.4	64.9	0.0	0.0	64.9	65.0	70	N	-	-	15.5	Y	N	N
N5369	37	116.7	D2-9	-	49.5	0.0	30.7	23.7	64.8	0.0	0.0	64.8	64.9	70	N	-	-	15.4	Y	N	N
N5369	38	119.5	D2-9	-	49.4	0.0	30.9	25.1	64.7	0.0	0.0	64.7	64.8	70	N	-	-	15.4	Y	N	N
N5369	39	122.3	D2-9	-	49.4	0.0	31.1	26.5	64.6	0.0	0.0	64.6	64.7	70	N	-	-	15.3	Y	N	N
N5369	40	125.1	D2-9	-	49.4	0.0	31.4	28.0	64.5	0.0	0.0	64.5	64.6	70	N	-	-	15.2	Y	N	N
N5370	1	15.9	D2-9	-	17.1	0.0	49.9	37.7	63.8	0.0	0.0	64.0	64.0	70	N	-	-	46.8	Y	N	N
N5370	2	18.7	D2-9	-	17.2	0.0	50.5	37.9	63.8	0.0	0.0	64.0	64.0	70	N	-	-	46.7	Y	N	N
N5370	3	21.5	D2-9	-	17.2	0.0	50.9	38.2	63.8	0.0	0.0	64.0	64.0	70	N	-	-	46.7	Y	N	N
N5370	4	24.3	D2-9	-	17.2	0.0	51.0	38.4	63.7	0.0	0.0	64.0	64.0	70	N	-	-	46.7	Y	N	N
N5370	5	27.1	D2-9	-	17.2	0.0	51.4	38.6	63.7	0.0	0.0	64.0	64.0	70	N	-	-	46.7	Y	N	N
N5370	6	29.9	D2-9	-	17.2	0.0	51.8	38.9	63.6	0.0	0.0	63.9	63.9	70	N	-	-	46.6	Y	N	N
N5370	7	32.7	D2-9	-	17.1	0.0	52.2	39.3	63.5	0.0	0.0	63.9	63.9	70	N	-	-	46.7	Y	N	N
N5370	8	35.5	D2-9	-	17.2	0.0	52.5	39.6	63.4	0.0	0.0	63.8	63.8	70	N	-	-	46.5	Y	N	N
N5370	9	38.3	D2-9	-	17.2	0.0	52.9	40.1	63.3	0.0	0.0	63.7	63.7	70	N	-	-	46.4	Y	N	N
N5370	10	41.1	D2-9	-	17.2	0.0	53.2	40.3	63.2	0.0	0.0	63.7	63.7	70	N	-	-	46.4	Y	N	N
N5370	11	43.9	D2-9	-	17.2	0.0	53.4	40.5	63.1	0.0	0.0	63.6	63.6	70	N	-	-	46.3	Y	N	N
N5370	12	46.7	D2-9	-	17.2	0.0	53.7	40.7	63.0	0.0	0.0	63.5	63.5	70	N	-	-	46.2	Y	N	N
N5370	13	49.5	D2-9	-	17.2	0.0	54.0	41.1	62.9	0.0	0.0	63.4	63.4	70	N	-	-	46.1	Y	N	N
N5370	14	52.3	D2-9	-	17.1	0.0	54.2	41.4	62.8	0.0	0.0	63.4	63.4	70	N	-	-	46.2	Y	N	N
N5370	15	55.1	D2-9	-	17.1	0.0	54.5	41.7	62.7	0.0	0.0	63.3	63.3	70	N	-	-	46.1	Y	N	N
N5370	16	57.9	D2-9	-	17.1	0.0	54.7	41.8	62.5	0.0	0.0	63.2	63.2	70	N	-	-	46.0	Y	N	N
N5370	17	60.7	D2-9	-	17.1	0.0	54.8	42.0	62.4	0.0	0.0	63.1	63.1	70	N	-	-	45.9	Y	N	N
N5370	18	63.5	D2-9	-	17.1	0.0	55.0	42.2	62.3	0.0	0.0	63.1	63.1	70	N	-	-	45.9	Y	N	N
N5370	19	66.3	D2-9	-	17.1	0.0	55.3	42.4	62.2	0.0	0.0	63.0	63.0	70	N	-	-	45.8	Y	N	N
N5370	20	69.1	D2-9	-	17.1	0.0	55.4	42.5	62.0	0.0	0.0	62.9	62.9	70	N	-	-	45.7	Y	N	N
N5370	21	71.9	D2-9	-	17.1	0.0	55.6	42.6	61.9	0.0	0.0	62.9	62.9	70	N	-	-	45.7	Y	N	N
N5370	22	74.7	D2-9	-	17.1	0.0	55.7	42.7	61.9	0.0	0.0	62.8	62.8	70	N	-	-	45.6	Y	N	N
N5370	23	77.5	D2-9	-	17.1	0.0	55.8	42.8	61.7	0.0	0.0	62.7	62.7	70	N	-	-	45.5	Y	N	N
N5370	24	80.3	D2-9	-	17.1	0.0	56.0	42.9	61.6	0.0	0.0	62.7	62.7	70	N	-	-	45.5	Y	N	N
N5370	25	83.1	D2-9	-	17.1	0.0	56.2	42.9	61.5	0.0	0.0	62.6	62.6	70	N	-	-	45.4	Y	N	N
N5370	26	85.9	D2-9	-	17.0	0.0	56.3	43.0	61.4	0.0	0.0	62.6	62.6	70	N	-	-	45.5	Y	N	N
N5370	27	88.7	D2-9	-	17.0	0.0	56.5	43.0	61.3	0.0	0.0	62.6	62.6	70	N	-	-	45.5	Y	N	N
N5370	28	91.5	D2-9	-	17.0	0.0	56.6	43.1	61.2	0.0	0.0	62.5	62.5	70	N	-	-	45.4	Y	N	N
N5370	29	94.3	D2-9	-	17.0	0.0	56.7	43.2	61.1	0.0	0.0	62.5	62.5	70	N	-	-	45.4	Y	N	N
N5370	30	97.1	D2-9	-	17.0	0.0	56.7	43.4	61.0	0.0	0.0	62.4	62.4	70	N	-	-	45.3	Y	N	N
N5370	31	99.9	D2-9	-	16.9	0.0	56.8	43.5	60.9	0.0	0.0	62.4	62.4	70	N	-	-	45.4	Y	N	N
N5370	32	102.7	D2-9	-	16.9	0.0	56.9	43.6	60.8	0.0	0.0	62.3	62.3	70	N	-	-	45.3	Y	N	N
N5370	33	105.5	D2-9	-	17.0	0.0	56.9	44.0	60.7	0.0	0.0	62.3	62.3	70	N	-	-	45.2	Y	N	N
N5370	34	108.3	D2-9	-	16.9	0.0	57.0	44.5	60.6	0.0	0.0	62.2	62.2	70	N	-	-	45.2	Y	N	N
N5370	35	111.1	D2-9	-	17.0	0.0	57.0	44.7	60.5	0.0	0.0	62.2	62.2	70	N	-	-	45.1	Y	N	N
N5370	36	113.9	D2-9	-	17.5	0.0	57.1	45.1	60.4	0.0	0.0	62.2	62.2	70	N	-	-	44.6	Y	N	N
N5370	37	116.7	D2-9	-	18.0	0.0	57.1	45.3	60.3	0.0	0.0	62.1	62.1	70	N	-	-	44.0	Y	N	N
N5370	38	119.5	D2-9	-	18.6	0.0	57.1	45.7	60.2	0.0	0.0	62.1	62.1	70	N	-	-	43.4	Y	N	N
N5370	39	122.3	D2-9	-	19.2	0.0	57.2	46.0	60.1	0.0	0.0	62.0	62.0	70	N	-	-	42.7	Y	N	N
N5370	40	125.1	D2-9	-	19.8	0.0	57.2	46.2	60.1	0.0	0.0	62.0	62.0	70	N	-	-	42.2	Y	N	N
N5371	1	16.1	D2-9	-	0.0	0.0	56.0	0.0	55.8	0.0	0.0	58.9	58.9	70	N	-	-	55.9	Y	N	N
N5371	2	18.9	D2-9	-	0.0	0.0	57.5	0.0	55.7	0.0	0.0	59.7	59.7	70	N	-	-	56.7	Y	N	N
N5371	3	21.7	D2-9	-	0.0	0.0	59.3	0.0	55.6	0.0	0.0	60.8	60.8	70	N	-	-	57.8	Y	N	N
N5371	4	24.5	D2-9	-	0.0	0.0	61.7	0.0	55.4	0.0	0.0	62.6	62.6	70	N	-	-	59.6	Y	N	N
N5371	5	27.3	D2-9	-	0.0	0.0	64.2	0.0	55.3	0.0	0.0	64.7	64.7	70	N	-	-	61.7	Y	N	N
N5371	6	30.1	D2-9	-	0.0	0.0	66.2	0.0	55.1	0.0	0.0	66.5	66.5	70	N	-	-	63.5	Y	N	N
N5371	7	32.9	D2-9	-	0.0	0.0	67.3	0.0	54.9	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
N5371	8	35.7	D2-9	-	0.0	0.0	67.9	0.0	54.8	0.0	0.0	68.1	68.1	70	N	-	-	65.1	Y	N	N
N5371	9	38.5	D2-9	-	0.0	0.0	68.3	0.0	54.6	0.0	0.0	68.5	68.5	70	N	-	-	65.5	Y	N	N
N5371	10	41.3	D2-9	-	0.0	0.0	68.8	0.0	54.4	0.0	0.0	68.9	68.9	70	N	-	-	65.9	Y	N	N
N5371	11	44.1	D2-9	-	0.0	0.0	69.1	0.0	54.2	0.0	0.0	69.2	69.2	70	N	-	-	66.2	Y	N	N
N5371	12	46.9	D2-9	-	0.0	0.0	69.3	0.0	54.0	0.0	0.0	69.4	69.4	70	N	-	-	66.4	Y	N	N
N5371	13	49.7	D2-9	-	0.0	0.0	69.5	0.0	53.8	0.0	0.0	69.6	69.6	70	N	-	-	66.6	Y	N	N
N5371	14	52.5	D2-9	-	0.0	0.0	69.5	0.0	53.7	0.0	0.0	69.7	69.7	70	N	-	-	66.7	Y	N	N
N5371	15	55.3	D2-9	-	0.0	0.0	69.6	0.0	53.5	0.0	0.0	69.7	69.7	70	N	-	-	66.7	Y	N	N
N5371	16	58.1	D2-9	-	0.0	0.0	69.6	0.0	53.3	0.0	0.0	69.7	69.7	70	N	-	-	66.7	Y	N	N
N5371	17	60.9	D2-9	-	0.0	0.0	69.6	0.0	53.1	0.0	0.0	69.7	69.7	70	N	-	-	66.7	Y	N	N
N5371	18	63.7	D2-9	-	0.0	0.0	69.6	0.0	53.0	0.0	0.0	69.6	69.6	70	N	-	-	66.6	Y	N	N
N5371	19	66.5	D2-9	-	0.0	0.0	69.5	0.0	52.8	0.0	0.0	69.6	69.6	70	N	-	-	66.6	Y	N	N
N5371	20	69.3	D2-9	-	0.0	0.0	69.5	0.0	52.6	0.0	0.0	69.6	69.6	70	N	-	-	66.6	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N5371	21	72.1	D2-9	-	0.0	0.0	69.4	0.0	52.5	0.0	0.0	69.5	69.5	70	N	-	-	66.5	Y	N	N
N5371	22	74.9	D2-9	-	0.0	0.0	69.4	0.0	52.3	0.0	0.0	69.5	69.5	70	N	-	-	66.5	Y	N	N
N5371	23	77.7	D2-9	-	0.0	0.0	69.3	0.0	52.2	0.0	0.0	69.4	69.4	70	N	-	-	66.4	Y	N	N
N5371	24	80.5	D2-9	-	0.0	0.0	69.3	0.0	52.1	0.0	0.0	69.4	69.4	70	N	-	-	66.4	Y	N	N
N5371	25	83.3	D2-9	-	0.0	0.0	69.2	0.0	51.9	0.0	0.0	69.3	69.3	70	N	-	-	66.3	Y	N	N
N5371	26	86.1	D2-9	-	0.0	0.0	69.2	0.0	51.8	0.0	0.0	69.3	69.3	70	N	-	-	66.3	Y	N	N
N5371	27	88.9	D2-9	-	0.0	0.0	69.2	0.0	51.6	0.0	0.0	69.2	69.2	70	N	-	-	66.2	Y	N	N
N5371	28	91.7	D2-9	-	0.0	0.0	69.1	0.0	51.5	0.0	0.0	69.2	69.2	70	N	-	-	66.2	Y	N	N
N5371	29	94.5	D2-9	-	0.0	0.0	69.0	0.0	51.4	0.0	0.0	69.1	69.1	70	N	-	-	66.1	Y	N	N
N5371	30	97.3	D2-9	-	0.0	0.0	69.0	0.0	51.3	0.0	0.0	69.1	69.1	70	N	-	-	66.1	Y	N	N
N5371	31	100.1	D2-9	-	0.0	0.0	68.9	0.0	51.2	0.0	0.0	69.0	69.0	70	N	-	-	66.0	Y	N	N
N5371	32	102.9	D2-9	-	0.0	0.0	68.9	0.0	51.0	0.0	0.0	68.9	68.9	70	N	-	-	65.9	Y	N	N
N5371	33	105.7	D2-9	-	0.0	0.0	68.8	0.0	50.9	0.0	0.0	68.9	68.9	70	N	-	-	65.9	Y	N	N
N5371	34	108.5	D2-9	-	0.0	0.0	68.7	0.0	50.8	0.0	0.0	68.8	68.8	70	N	-	-	65.8	Y	N	N
N5371	35	111.3	D2-9	-	0.0	0.0	68.7	0.0	50.7	0.0	0.0	68.7	68.7	70	N	-	-	65.7	Y	N	N
N5371	36	114.1	D2-9	-	0.0	0.0	68.6	0.0	50.6	0.0	0.0	68.7	68.7	70	N	-	-	65.7	Y	N	N
N5371	37	116.9	D2-9	-	0.0	0.0	68.5	0.0	50.5	0.0	0.0	68.6	68.6	70	N	-	-	65.6	Y	N	N
N5372	1	16.1	D2-9	-	48.7	0.0	57.4	0.0	20.4	0.0	0.0	57.4	58.0	70	N	-	-	9.3	Y	N	N
N5372	2	18.9	D2-9	-	51.7	0.0	59.0	0.0	20.4	0.0	0.0	59.0	59.7	70	N	-	-	8.0	Y	N	N
N5372	3	21.7	D2-9	-	52.6	0.0	61.1	0.0	20.4	0.0	0.0	61.1	61.7	70	N	-	-	9.1	Y	N	N
N5372	4	24.5	D2-9	-	53.2	0.0	63.6	0.0	20.4	0.0	0.0	63.6	63.9	70	N	-	-	10.7	Y	N	N
N5372	5	27.3	D2-9	-	53.9	0.0	65.8	0.0	20.4	0.0	0.0	65.8	66.0	70	N	-	-	12.1	Y	N	N
N5372	6	30.1	D2-9	-	54.5	0.0	67.0	0.0	20.4	0.0	0.0	67.0	67.3	70	N	-	-	12.8	Y	N	N
N5372	7	32.9	D2-9	-	55.3	0.0	67.7	0.0	20.4	0.0	0.0	67.7	67.9	70	N	-	-	12.6	Y	N	N
N5372	8	35.7	D2-9	-	55.9	0.0	68.1	0.0	20.4	0.0	0.0	68.1	68.4	70	N	-	-	12.5	Y	N	N
N5372	9	38.5	D2-9	-	56.4	0.0	68.5	0.0	20.4	0.0	0.0	68.5	68.7	70	N	-	-	12.3	Y	N	N
N5372	10	41.3	D2-9	-	56.9	0.0	68.8	0.0	20.4	0.0	0.0	68.8	69.1	70	N	-	-	12.2	Y	N	N
N5372	11	44.1	D2-9	-	57.2	0.0	69.0	0.0	20.4	0.0	0.0	69.0	69.3	70	N	-	-	12.1	Y	N	N
N5372	12	46.9	D2-9	-	57.5	0.0	69.1	0.0	20.3	0.0	0.0	69.1	69.4	70	N	-	-	11.9	Y	N	N
N5372	13	49.7	D2-9	-	57.8	0.0	69.1	0.0	20.3	0.0	0.0	69.1	69.4	70	N	-	-	11.6	Y	N	N
N5372	14	52.5	D2-9	-	58.0	0.0	69.0	0.0	20.3	0.0	0.0	69.0	69.3	70	N	-	-	11.3	Y	N	N
N5372	15	55.3	D2-9	-	58.2	0.0	69.0	0.0	20.3	0.0	0.0	69.0	69.3	70	N	-	-	11.1	Y	N	N
N5372	16	58.1	D2-9	-	58.3	0.0	68.9	0.0	20.3	0.0	0.0	68.9	69.3	70	N	-	-	11.0	Y	N	N
N5372	17	60.9	D2-9	-	58.4	0.0	68.9	0.0	20.3	0.0	0.0	68.9	69.3	70	N	-	-	10.9	Y	N	N
N5372	18	63.7	D2-9	-	58.4	0.0	68.8	0.0	20.2	0.0	0.0	68.8	69.2	70	N	-	-	10.8	Y	N	N
N5372	19	66.5	D2-9	-	58.5	0.0	68.7	0.0	20.2	0.0	0.0	68.7	69.1	70	N	-	-	10.6	Y	N	N
N5372	20	69.3	D2-9	-	58.6	0.0	68.7	0.0	20.2	0.0	0.0	68.7	69.1	70	N	-	-	10.5	Y	N	N
N5372	21	72.1	D2-9	-	58.6	0.0	68.6	0.0	20.1	0.0	0.0	68.6	69.0	70	N	-	-	10.4	Y	N	N
N5372	22	74.9	D2-9	-	58.7	0.0	68.6	0.0	20.1	0.0	0.0	68.6	69.0	70	N	-	-	10.3	Y	N	N
N5372	23	77.7	D2-9	-	58.7	0.0	68.5	0.0	20.1	0.0	0.0	68.5	68.9	70	N	-	-	10.2	Y	N	N
N5372	24	80.5	D2-9	-	58.7	0.0	68.4	0.0	20.1	0.0	0.0	68.4	68.9	70	N	-	-	10.2	Y	N	N
N5372	25	83.3	D2-9	-	58.7	0.0	68.4	0.0	20.1	0.0	0.0	68.4	68.8	70	N	-	-	10.1	Y	N	N
N5372	26	86.1	D2-9	-	58.8	0.0	68.3	0.0	20.0	0.0	0.0	68.3	68.8	70	N	-	-	10.0	Y	N	N
N5372	27	88.9	D2-9	-	58.7	0.0	68.2	0.0	20.0	0.0	0.0	68.2	68.7	70	N	-	-	10.0	Y	N	N
N5372	28	91.7	D2-9	-	58.8	0.0	68.2	0.0	20.0	0.0	0.0	68.2	68.7	70	N	-	-	9.9	Y	N	N
N5372	29	94.5	D2-9	-	58.7	0.0	68.1	0.0	20.0	0.0	0.0	68.1	68.6	70	N	-	-	9.9	Y	N	N
N5372	30	97.3	D2-9	-	58.8	0.0	68.0	0.0	19.9	0.0	0.0	68.0	68.5	70	N	-	-	9.7	Y	N	N
N5372	31	100.1	D2-9	-	58.8	0.0	68.0	0.0	19.9	0.0	0.0	68.0	68.5	70	N	-	-	9.7	Y	N	N
N5372	32	102.9	D2-9	-	58.8	0.0	67.9	0.0	19.8	0.0	0.0	67.9	68.4	70	N	-	-	9.6	Y	N	N
N5372	33	105.7	D2-9	-	58.8	0.0	67.9	0.0	20.1	0.0	0.0	67.9	68.4	70	N	-	-	9.6	Y	N	N
N5372	34	108.5	D2-9	-	58.8	0.0	67.8	0.0	20.7	0.0	0.0	67.8	68.3	70	N	-	-	9.5	Y	N	N
N5372	35	111.3	D2-9	-	58.7	0.0	67.7	0.0	21.6	0.0	0.0	67.7	68.2	70	N	-	-	9.5	Y	N	N
N5372	36	114.1	D2-9	-	58.8	0.0	67.6	0.0	22.7	0.0	0.0	67.6	68.2	70	N	-	-	9.4	Y	N	N
N5372	37	116.9	D2-9	-	58.8	0.0	67.6	0.0	23.9	0.0	0.0	67.6	68.1	70	N	-	-	9.3	Y	N	N
N5373	1	16.1	D2-9	-	19.5	0.0	45.1	13.3	69.3	0.0	0.0	69.3	69.3	70	N	-	-	49.8	Y	N	N
N5373	2	18.9	D2-9	-	21.0	0.0	45.8	13.3	69.1	0.0	0.0	69.1	69.1	70	N	-	-	48.1	Y	N	N
N5373	3	21.7	D2-9	-	22.4	0.0	46.5	13.3	68.8	0.0	0.0	68.8	68.8	70	N	-	-	46.4	Y	N	N
N5373	4	24.5	D2-9	-	23.2	0.0	47.2	13.3	68.4	0.0	0.0	68.4	68.4	70	N	-	-	45.2	Y	N	N
N5373	5	27.3	D2-9	-	23.5	0.0	48.0	13.3	68.2	0.0	0.0	68.2	68.2	70	N	-	-	44.7	Y	N	N
N5373	6	30.1	D2-9	-	23.9	0.0	48.7	13.3	68.1	0.0	0.0	68.1	68.1	70	N	-	-	44.2	Y	N	N
N5373	7	32.9	D2-9	-	24.2	0.0	49.5	13.3	67.9	0.0	0.0	68.0	68.0	70	N	-	-	43.8	Y	N	N
N5373	8	35.7	D2-9	-	24.5	0.0	50.4	13.3	67.7	0.0	0.0	67.8	67.8	70	N	-	-	43.3	Y	N	N
N5373	9	38.5	D2-9	-	24.9	0.0	51.3	13.3	67.4	0.0	0.0	67.5	67.5	70	N	-	-	42.6	Y	N	N
N5373	10	41.3	D2-9	-	25.1	0.0	52.5	13.2	67.2	0.0	0.0	67.3	67.3	70	N	-	-	42.2	Y	N	N
N5373	11	44.1	D2-9	-	25.4	0.0	53.6	13.2	66.9	0.0	0.0	67.1	67.1	70	N	-	-	41.7	Y	N	N
N5373	12	46.9	D2-9	-	25.7	0.0	54.7	13.5	66.6	0.0	0.0	66.9	66.9	70	N	-	-	41.2	Y	N	N
N5373	13	49.7	D2-9	-	26.0	0.0	55.9	13.6	66.3	0.0	0.0	66.7	66.7	70	N	-	-	40.7	Y	N	N
N5373	14	52.5	D2-9	-	26.2	0.0	56.8	13.6	66.1	0.0	0.0	66.6	66.6	70	N	-	-	40.4	Y	N	N
N5373	15	55.3	D2-9	-	26.5	0.0	57.6	13.7	66.0	0.0	0.0	66.5	66.5	70	N	-	-	40.0	Y	N	N
N5373	16	58.1	D2-9	-	26.8	0.0	58.2	13.7	65.7	0.0	0.0	66.4	66.4	70	N	-	-	39.6	Y	N	N
N5373	17	60.9	D2-9	-	27.1	0.0	58.8	13.7	65.5	0.0	0.0	66.3	66.3	70	N	-	-	39.2	Y	N	N
N5373	18	63.7	D2-9	-	27.4	0.0	59.2	13.7	65.3	0.0	0.0	66.3	66.3	70	N	-	-	38.9	Y	N	N
N5373	19	66.5	D2-9	-	27.7	0.0	59.6	13.7	65.1	0.0	0.0	66.2	66.2	70	N	-	-	38.5	Y	N	N
N5373	20	69.3	D2-9	-	28.1	0.0	59.9	13.7	65.0	0.0	0.0	66.1	66.1	70	N	-	-	38.0	Y	N	N
N5373	21	72.1	D2-9	-	28.4	0.0	60.2	13.7	64.8	0.0	0.0	66.1	66.1	70	N	-	-	37.7	Y	N	N
N5373	22	74.9	D2-9	-	28.7	0.0	60.3	13.7	64.7	0.0	0.0	66.1	66.1	70	N	-	-	37.4	Y	N	N
N5373	23	77.7	D2-9	-	29.0	0.0	60.5	13.7	64.6	0.0	0.0	66.0	66.0	70	N	-	-	37.0	Y	N	N
N5373	24	80.5	D2-9	-	29.4	0.0	60.6	13.8	64.4	0.0	0.0	65.9	65.9	70	N	-	-	36.5	Y	N	N
N5373	25	83.3	D2-9	-	29.8	0.0	60.7	13.8	64.3	0.0	0.0	65.9	65.9	70	N	-	-	36.1	Y	N	N
N5373	26	86.1	D2-9	-	30.1	0.0	60.8	13.8	64.2	0.0	0.0	65.8	65.8	70	N	-	-	35.7	Y	N	N
N5373	27	88.9	D2-9	-	30.5	0.0	60.9	13.7	64.1	0.0	0.0	65.8	65.8	70	N	-	-	35.3	Y	N	N
N5373	28	91.7	D2-9	-	31.0	0.0	61.0	13.6	64.0	0.0	0.0	65.8	65.8	70	N	-	-	34.8	Y	N	N
N5373	29	94.5	D2-9	-	31.5	0.0	61.0	13.7	63.9	0.0	0.0	65.7	65.7	70	N	-	-	34.2	Y	N	N
N5373	30	97.3	D2-9	-	32.1	0.0	61.1	13.7	63.9	0.0	0.0	65.7	65.7	70	N	-	-	33.6	Y	N	N
N5373	31	100.1	D2-9	-	32.6	0.0	61.0	13.8	63.7	0.0	0.0	65.6	65.6	70	N	-	-	33.0	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT											Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							New Roads[2]														
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
							dB (A)														
N5373	32	102.9	D2-9	-	32.6	0.0	61.1	13.8	63.7	0.0	0.0	65.6	65.6	70	N	-	-	33.0	Y	N	N
N5373	33	105.7	D2-9	-	33.0	0.0	61.2	13.8	63.6	0.0	0.0	65.6	65.6	70	N	-	-	32.6	Y	N	N
N5373	34	108.5	D2-9	-	33.4	0.0	61.2	13.7	63.5	0.0	0.0	65.5	65.5	70	N	-	-	32.1	Y	N	N
N5373	35	111.3	D2-9	-	33.9	0.0	61.3	13.7	63.4	0.0	0.0	65.5	65.5	70	N	-	-	31.6	Y	N	N
N5373	36	114.1	D2-9	-	34.4	0.0	61.3	15.1	63.3	0.0	0.0	65.4	65.4	70	N	-	-	31.0	Y	N	N
N5373	37	116.9	D2-9	-	34.8	0.0	61.3	16.5	63.2	0.0	0.0	65.4	65.4	70	N	-	-	30.6	Y	N	N
N5374	1	16.1	D2-9	-	49.5	0.0	56.7	0.0	27.0	0.0	0.0	56.7	57.5	70	N	-	-	8.0	Y	N	N
N5374	2	18.9	D2-9	-	51.8	0.0	58.5	0.0	27.0	0.0	0.0	58.5	59.4	70	N	-	-	7.6	Y	N	N
N5374	3	21.7	D2-9	-	52.7	0.0	60.8	0.0	27.0	0.0	0.0	60.8	61.5	70	N	-	-	8.8	Y	N	N
N5374	4	24.5	D2-9	-	53.4	0.0	63.4	0.0	27.0	0.0	0.0	63.4	63.8	70	N	-	-	10.4	Y	N	N
N5374	5	27.3	D2-9	-	54.2	0.0	65.8	0.0	27.0	0.0	0.0	65.8	66.1	70	N	-	-	11.9	Y	N	N
N5374	6	30.1	D2-9	-	55.1	0.0	67.2	0.0	27.0	0.0	0.0	67.2	67.4	70	N	-	-	12.3	Y	N	N
N5374	7	32.9	D2-9	-	55.9	0.0	67.8	0.0	27.0	0.0	0.0	67.8	68.1	70	N	-	-	12.2	Y	N	N
N5374	8	35.7	D2-9	-	56.6	0.0	68.3	0.0	26.9	0.0	0.0	68.3	68.6	70	N	-	-	12.0	Y	N	N
N5374	9	38.5	D2-9	-	57.2	0.0	68.7	0.0	26.9	0.0	0.0	68.7	69.0	70	N	-	-	11.8	Y	N	N
N5374	10	41.3	D2-9	-	57.6	0.0	69.1	0.0	26.9	0.0	0.0	69.1	69.4	70	N	-	-	11.8	Y	N	N
N5374	11	44.1	D2-9	-	58.0	0.0	69.2	0.0	26.8	0.0	0.0	69.2	69.6	70	N	-	-	11.6	Y	N	N
N5374	12	46.9	D2-9	-	58.3	0.0	69.3	0.0	26.8	0.0	0.0	69.3	69.7	70	N	-	-	11.4	Y	N	N
N5374	13	49.7	D2-9	-	58.5	0.0	69.4	0.0	26.8	0.0	0.0	69.4	69.7	70	N	-	-	11.2	Y	N	N
N5374	14	52.5	D2-9	-	58.7	0.0	69.4	0.0	26.7	0.0	0.0	69.4	69.7	70	N	-	-	11.0	Y	N	N
N5374	15	55.3	D2-9	-	58.8	0.0	69.4	0.0	26.7	0.0	0.0	69.4	69.7	70	N	-	-	10.9	Y	N	N
N5374	16	58.1	D2-9	-	59.0	0.0	69.4	0.0	26.6	0.0	0.0	69.4	69.7	70	N	-	-	10.7	Y	N	N
N5374	17	60.9	D2-9	-	59.0	0.0	69.3	0.0	26.6	0.0	0.0	69.3	69.7	70	N	-	-	10.7	Y	N	N
N5374	18	63.7	D2-9	-	59.1	0.0	69.3	0.0	26.5	0.0	0.0	69.3	69.7	70	N	-	-	10.6	Y	N	N
N5374	19	66.5	D2-9	-	59.2	0.0	69.2	0.0	26.5	0.0	0.0	69.2	69.6	70	N	-	-	10.4	Y	N	N
N5374	20	69.3	D2-9	-	59.2	0.0	69.2	0.0	26.4	0.0	0.0	69.2	69.6	70	N	-	-	10.4	Y	N	N
N5374	21	72.1	D2-9	-	59.3	0.0	69.1	0.0	26.4	0.0	0.0	69.1	69.6	70	N	-	-	10.3	Y	N	N
N5374	22	74.9	D2-9	-	59.3	0.0	69.1	0.0	26.3	0.0	0.0	69.1	69.5	70	N	-	-	10.2	Y	N	N
N5374	23	77.7	D2-9	-	59.3	0.0	69.0	0.0	26.2	0.0	0.0	69.0	69.5	70	N	-	-	10.2	Y	N	N
N5374	24	80.5	D2-9	-	59.3	0.0	69.0	0.0	26.2	0.0	0.0	69.0	69.4	70	N	-	-	10.1	Y	N	N
N5374	25	83.3	D2-9	-	59.3	0.0	68.9	0.0	26.1	0.0	0.0	68.9	69.4	70	N	-	-	10.1	Y	N	N
N5374	26	86.1	D2-9	-	59.3	0.0	68.9	0.0	26.1	0.0	0.0	68.9	69.4	70	N	-	-	10.1	Y	N	N
N5374	27	88.9	D2-9	-	59.3	0.0	68.9	0.0	26.0	0.0	0.0	68.9	69.3	70	N	-	-	10.0	Y	N	N
N5374	28	91.7	D2-9	-	59.4	0.0	68.8	0.0	25.9	0.0	0.0	68.8	69.3	70	N	-	-	9.9	Y	N	N
N5374	29	94.5	D2-9	-	59.4	0.0	68.7	0.0	25.9	0.0	0.0	68.7	69.2	70	N	-	-	9.8	Y	N	N
N5374	30	97.3	D2-9	-	59.4	0.0	68.7	0.0	25.8	0.0	0.0	68.7	69.2	70	N	-	-	9.8	Y	N	N
N5374	31	100.1	D2-9	-	59.4	0.0	68.6	0.0	25.8	0.0	0.0	68.6	69.1	70	N	-	-	9.7	Y	N	N
N5374	32	102.9	D2-9	-	59.3	0.0	68.6	0.0	25.7	0.0	0.0	68.6	69.1	70	N	-	-	9.8	Y	N	N
N5374	33	105.7	D2-9	-	59.4	0.0	68.5	0.0	25.6	0.0	0.0	68.5	69.0	70	N	-	-	9.6	Y	N	N
N5374	34	108.5	D2-9	-	59.3	0.0	68.5	0.0	25.6	0.0	0.0	68.5	69.0	70	N	-	-	9.7	Y	N	N
N5374	35	111.3	D2-9	-	59.3	0.0	68.4	0.0	25.5	0.0	0.0	68.4	68.9	70	N	-	-	9.6	Y	N	N
N5374	36	114.1	D2-9	-	59.3	0.0	68.3	0.0	25.4	0.0	0.0	68.3	68.8	70	N	-	-	9.5	Y	N	N
N5374	37	116.9	D2-9	-	59.3	0.0	68.2	0.0	25.4	0.0	0.0	68.2	68.8	70	N	-	-	9.5	Y	N	N
N5375	1	16.1	D2-9	-	54.1	0.0	61.1	0.0	16.2	0.0	0.0	61.1	61.9	70	N	-	-	7.8	Y	N	N
N5375	2	18.9	D2-9	-	57.0	0.0	61.7	0.0	16.2	0.0	0.0	61.7	63.0	70	N	-	-	6.0	Y	N	N
N5375	3	21.7	D2-9	-	58.8	0.0	62.8	0.0	16.2	0.0	0.0	62.8	64.2	70	N	-	-	5.4	Y	N	N
N5375	4	24.5	D2-9	-	59.6	0.0	64.1	0.0	16.2	0.0	0.0	64.1	65.4	70	N	-	-	5.8	Y	N	N
N5375	5	27.3	D2-9	-	60.0	0.0	65.5	0.0	16.2	0.0	0.0	65.5	66.6	70	N	-	-	6.6	Y	N	N
N5375	6	30.1	D2-9	-	60.5	0.0	66.5	0.0	16.2	0.0	0.0	66.5	67.5	70	N	-	-	7.0	Y	N	N
N5375	7	32.9	D2-9	-	60.9	0.0	67.1	0.0	16.2	0.0	0.0	67.1	68.1	70	N	-	-	7.2	Y	N	N
N5375	8	35.7	D2-9	-	61.2	0.0	67.6	0.0	16.2	0.0	0.0	67.6	68.5	70	N	-	-	7.3	Y	N	N
N5375	9	38.5	D2-9	-	61.5	0.0	67.9	0.0	16.2	0.0	0.0	67.9	68.8	70	N	-	-	7.3	Y	N	N
N5375	10	41.3	D2-9	-	61.9	0.0	68.2	0.0	16.1	0.0	0.0	68.2	69.1	70	N	-	-	7.2	Y	N	N
N5375	11	44.1	D2-9	-	62.1	0.0	68.3	0.0	16.1	0.0	0.0	68.3	69.2	70	N	-	-	7.1	Y	N	N
N5375	12	46.9	D2-9	-	62.3	0.0	68.4	0.0	16.1	0.0	0.0	68.4	69.4	70	N	-	-	7.1	Y	N	N
N5375	13	49.7	D2-9	-	62.5	0.0	68.4	0.0	16.1	0.0	0.0	68.4	69.4	70	N	-	-	6.9	Y	N	N
N5375	14	52.5	D2-9	-	62.6	0.0	68.4	0.0	16.1	0.0	0.0	68.4	69.4	70	N	-	-	6.8	Y	N	N
N5375	15	55.3	D2-9	-	62.7	0.0	68.4	0.0	16.1	0.0	0.0	68.4	69.4	70	N	-	-	6.7	Y	N	N
N5375	16	58.1	D2-9	-	62.8	0.0	68.3	0.0	16.0	0.0	0.0	68.3	69.4	70	N	-	-	6.6	Y	N	N
N5375	17	60.9	D2-9	-	62.9	0.0	68.3	0.0	16.0	0.0	0.0	68.3	69.4	70	N	-	-	6.5	Y	N	N
N5375	18	63.7	D2-9	-	62.9	0.0	68.3	0.0	15.9	0.0	0.0	68.3	69.4	70	N	-	-	6.5	Y	N	N
N5375	19	66.5	D2-9	-	62.9	0.0	68.2	0.0	16.0	0.0	0.0	68.2	69.3	70	N	-	-	6.4	Y	N	N
N5375	20	69.3	D2-9	-	63.0	0.0	68.2	0.0	16.0	0.0	0.0	68.2	69.3	70	N	-	-	6.3	Y	N	N
N5375	21	72.1	D2-9	-	63.0	0.0	68.2	0.0	15.9	0.0	0.0	68.2	69.3	70	N	-	-	6.3	Y	N	N
N5375	22	74.9	D2-9	-	63.0	0.0	68.2	0.0	16.1	0.0	0.0	68.2	69.3	70	N	-	-	6.3	Y	N	N
N5375	23	77.7	D2-9	-	63.0	0.0	68.1	0.0	16.1	0.0	0.0	68.1	69.3	70	N	-	-	6.3	Y	N	N
N5375	24	80.5	D2-9	-	63.1	0.0	68.1	0.0	16.1	0.0	0.0	68.1	69.3	70	N	-	-	6.2	Y	N	N
N5375	25	83.3	D2-9	-	63.0	0.0	68.1	0.0	16.2	0.0	0.0	68.1	69.3	70	N	-	-	6.3	Y	N	N
N5375	26	86.1	D2-9	-	63.1	0.0	68.1	0.0	16.1	0.0	0.0	68.1	69.3	70	N	-	-	6.2	Y	N	N
N5375	27	88.9	D2-9	-	63.1	0.0	68.1	0.0	16.1	0.0	0.0	68.1	69.3	70	N	-	-	6.2	Y	N	N
N5375	28	91.7	D2-9	-	63.1	0.0	68.1	0.0	16.1	0.0	0.0	68.1	69.3	70	N	-	-	6.2	Y	N	N
N5375	29	94.5	D2-9	-	63.1	0.0	68.1	0.0	16.2	0.0	0.0	68.1	69.3	70	N	-	-	6.2	Y	N	N
N5375	30	97.3	D2-9	-	63.1	0.0	68.1	0.0	16.1	0.0	0.0	68.1	69.3	70	N	-	-	6.2	Y	N	N
N5375	31	100.1	D2-9	-	63.1	0.0	68.0	0.0	16.1	0.0	0.0	68.0	69.3	70	N	-	-	6.2	Y	N	N
N5375	32	102.9	D2-9	-	63.2	0.0	68.0	0.0	16.1	0.0	0.0	68.0	69.2	70	N	-	-	6.0	Y	N	N
N5375	33	105.7	D2-9	-	63.2	0.0	68.0	0.0	16.1	0.0	0.0	68.0	69.2	70	N	-	-	6.0	Y	N	N
N5375	34	108.5	D2-9	-	63.3	0.0	67.9	0.0	16.1	0.0	0.0	67.9	69.2	70	N	-	-	5.9	Y	N	N
N5375	35	111.3	D2-9	-	63.4	0.0	67.9	0.0	16.0	0.0	0.0	67.9	69.2	70	N	-	-	5.8	Y	N	N
N5375	36	114.1	D2-9	-	63.5	0.0	67.8	0.0	16.1	0.0	0.0	67.8	69.2	70	N	-	-	5.7	Y	N	N
N5375	37	116.9	D2-9	-	63.5	0.0	67.8	0.0	16.1	0.0	0.0	67.8	69.1	70	N	-	-	5.6	Y	N	N
N5376	1	16.1	D2-9	-	50.4	0.0	52.1	13.2	36.9	0.0	0.0	52.2	54.4	70	N	-	-	4.0	Y	N	N
N5376	2	18.9	D2-9	-	50.4	0.0	52.2	13.2	39.0	0.0	0.0	52.4	54.6	70	N	-	-	4.2	Y	N	N
N5376	3	21.7	D2-9	-	50.4	0.0	52.5	13.2	41.7	0.0	0.0	52.8	54.8	70	N	-	-	4.4	Y	N	N
N5376	4	24.5	D2-9	-	50.4	0.0	52.9	13.2	44.2	0.0	0.0	53.4	55.2	70	N	-	-	4.8	Y	N	N
N5376	5	27.3	D2-9	-	50.4	0.0	53.4	13.2	47.3	0.0	0.0	54.4	55.8	70	N	-	-	5.4	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT													
							New Roads[2]							Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
N5376	6	30.1	D2-9	-	50.4	0.0	54.1	13.2	50.1	0.0	0.0	55.5	56.7	70	N	-	-	6.3	Y	N	N
N5376	7	32.9	D2-9	-	50.4	0.0	54.6	13.2	52.0	0.0	0.0	56.5	57.5	70	N	-	-	7.1	Y	N	N
N5376	8	35.7	D2-9	-	50.4	0.0	55.0	13.2	53.8	0.0	0.0	57.4	58.2	70	N	-	-	7.8	Y	N	N
N5376	9	38.5	D2-9	-	50.4	0.0	55.1	13.1	55.0	0.0	0.0	58.0	58.7	70	N	-	-	8.3	Y	N	N
N5376	10	41.3	D2-9	-	50.4	0.0	55.2	13.1	55.5	0.0	0.0	58.4	59.0	70	N	-	-	8.6	Y	N	N
N5376	11	44.1	D2-9	-	50.4	0.0	55.3	13.1	55.7	0.0	0.0	58.5	59.1	70	N	-	-	8.7	Y	N	N
N5376	12	46.9	D2-9	-	50.4	0.0	55.3	13.1	55.9	0.0	0.0	58.6	59.2	70	N	-	-	8.8	Y	N	N
N5376	13	49.7	D2-9	-	50.4	0.0	55.2	13.1	55.9	0.0	0.0	58.6	59.2	70	N	-	-	8.8	Y	N	N
N5376	14	52.5	D2-9	-	50.4	0.0	55.2	13.1	56.0	0.0	0.0	58.6	59.2	70	N	-	-	8.8	Y	N	N
N5376	15	55.3	D2-9	-	50.4	0.0	55.2	13.0	56.1	0.0	0.0	58.7	59.3	70	N	-	-	8.9	Y	N	N
N5376	16	58.1	D2-9	-	50.4	0.0	55.1	13.0	56.1	0.0	0.0	58.7	59.3	70	N	-	-	8.9	Y	N	N
N5376	17	60.9	D2-9	-	50.4	0.0	55.1	12.8	56.2	0.0	0.0	58.7	59.3	70	N	-	-	8.9	Y	N	N
N5376	18	63.7	D2-9	-	50.4	0.0	55.1	13.0	56.2	0.0	0.0	58.7	59.3	70	N	-	-	8.9	Y	N	N
N5376	19	66.5	D2-9	-	50.4	0.0	55.0	13.2	56.3	0.0	0.0	58.7	59.3	70	N	-	-	8.9	Y	N	N
N5376	20	69.3	D2-9	-	50.5	0.0	55.0	13.2	56.3	0.0	0.0	58.7	59.3	70	N	-	-	8.8	Y	N	N
N5376	21	72.1	D2-9	-	50.5	0.0	55.0	13.2	56.4	0.0	0.0	58.8	59.4	70	N	-	-	8.9	Y	N	N
N5376	22	74.9	D2-9	-	50.6	0.0	55.0	13.2	56.5	0.0	0.0	58.8	59.4	70	N	-	-	8.8	Y	N	N
N5376	23	77.7	D2-9	-	50.6	0.0	54.9	13.1	56.6	0.0	0.0	58.9	59.5	70	N	-	-	8.9	Y	N	N
N5376	24	80.5	D2-9	-	50.7	0.0	54.9	13.1	56.8	0.0	0.0	59.0	59.6	70	N	-	-	8.9	Y	N	N
N5376	25	83.3	D2-9	-	50.8	0.0	54.9	13.1	56.9	0.0	0.0	59.0	59.6	70	N	-	-	8.8	Y	N	N
N5376	26	86.1	D2-9	-	50.8	0.0	54.9	13.1	57.1	0.0	0.0	59.1	59.7	70	N	-	-	8.9	Y	N	N
N5376	27	88.9	D2-9	-	51.0	0.0	54.8	13.0	57.4	0.0	0.0	59.3	59.9	70	N	-	-	8.9	Y	N	N
N5376	28	91.7	D2-9	-	51.2	0.0	54.8	13.0	57.5	0.0	0.0	59.4	60.0	70	N	-	-	8.8	Y	N	N
N5376	29	94.5	D2-9	-	51.5	0.0	54.8	13.0	57.7	0.0	0.0	59.5	60.1	70	N	-	-	8.6	Y	N	N
N5376	30	97.3	D2-9	-	51.9	0.0	54.9	12.9	57.9	0.0	0.0	59.6	60.3	70	N	-	-	8.4	Y	N	N
N5376	31	100.1	D2-9	-	52.2	0.0	54.9	12.8	58.0	0.0	0.0	59.7	60.4	70	N	-	-	8.2	Y	N	N
N5376	32	102.9	D2-9	-	52.6	0.0	55.0	12.9	58.1	0.0	0.0	59.8	60.6	70	N	-	-	8.0	Y	N	N
N5376	33	105.7	D2-9	-	52.9	0.0	55.1	12.9	58.2	0.0	0.0	59.9	60.7	70	N	-	-	7.8	Y	N	N
N5376	34	108.5	D2-9	-	53.3	0.0	55.2	12.9	58.4	0.0	0.0	60.1	60.9	70	N	-	-	7.6	Y	N	N
N5376	35	111.3	D2-9	-	53.6	0.0	55.2	12.9	58.5	0.0	0.0	60.2	61.1	70	N	-	-	7.5	Y	N	N
N5376	36	114.1	D2-9	-	53.9	0.0	55.3	13.5	58.6	0.0	0.0	60.3	61.2	70	N	-	-	7.3	Y	N	N
N5376	37	116.9	D2-9	-	54.2	0.0	55.4	14.2	58.7	0.0	0.0	60.3	61.3	70	N	-	-	7.1	Y	N	N
N5381	1	18.0	D2-12	-	65.1	0.0	16.4	6.3	67.3	0.0	0.0	67.3	69.3	70	N	-	-	4.2	Y	N	N
N5381	2	21.0	D2-12	-	65.1	0.0	16.4	6.3	67.2	0.0	0.0	67.2	69.3	70	N	-	-	4.2	Y	N	N
N5381	3	24.0	D2-12	-	65.1	0.0	16.4	6.3	67.1	0.0	0.0	67.1	69.2	70	N	-	-	4.1	Y	N	N
N5381	4	27.0	D2-12	-	65.0	0.0	16.4	6.3	66.9	0.0	0.0	66.9	69.1	70	N	-	-	4.1	Y	N	N
N5381	5	30.0	D2-12	-	65.0	0.0	16.4	6.3	66.7	0.0	0.0	66.7	68.9	70	N	-	-	3.9	Y	N	N
N5381	6	33.0	D2-12	-	64.9	0.0	16.4	6.3	66.5	0.0	0.0	66.5	68.8	70	N	-	-	3.9	Y	N	N
N5381	7	36.0	D2-12	-	64.8	0.0	16.4	6.3	66.3	0.0	0.0	66.3	68.6	70	N	-	-	3.8	Y	N	N
N5381	8	39.0	D2-12	-	64.7	0.0	16.4	6.2	66.1	0.0	0.0	66.1	68.5	70	N	-	-	3.8	Y	N	N
N5381	9	42.0	D2-12	-	64.6	0.0	16.4	6.2	65.9	0.0	0.0	65.9	68.3	70	N	-	-	3.7	Y	N	N
N5381	10	45.0	D2-12	-	64.5	0.0	16.4	6.2	65.7	0.0	0.0	65.7	68.2	70	N	-	-	3.7	Y	N	N
N5381	11	48.0	D2-12	-	64.3	0.0	16.4	6.2	65.5	0.0	0.0	65.5	68.0	70	N	-	-	3.7	Y	N	N
N5381	12	51.0	D2-12	-	64.2	0.0	16.4	6.2	65.3	0.0	0.0	65.3	67.8	70	N	-	-	3.6	Y	N	N
N5381	13	54.0	D2-12	-	64.1	0.0	16.4	6.2	65.1	0.0	0.0	65.1	67.6	70	N	-	-	3.5	Y	N	N
N5381	14	57.0	D2-12	-	63.9	0.0	16.4	6.2	65.0	0.0	0.0	65.0	67.5	70	N	-	-	3.6	Y	N	N
N5381	15	60.0	D2-12	-	63.8	0.0	16.4	6.1	64.8	0.0	0.0	64.8	67.3	70	N	-	-	3.5	Y	N	N
N5381	16	63.0	D2-12	-	63.7	0.0	16.4	6.1	64.6	0.0	0.0	64.6	67.2	70	N	-	-	3.5	Y	N	N
N5381	17	66.0	D2-12	-	63.5	0.0	16.3	6.1	64.5	0.0	0.0	64.5	67.1	70	N	-	-	3.6	Y	N	N
N5381	18	69.0	D2-12	-	63.4	0.0	16.3	6.1	64.3	0.0	0.0	64.3	66.9	70	N	-	-	3.5	Y	N	N
N5381	19	72.0	D2-12	-	63.3	0.0	16.3	6.1	64.2	0.0	0.0	64.2	66.8	70	N	-	-	3.5	Y	N	N
N5382	1	36.0	D2-12	-	51.7	0.0	26.2	0.0	66.4	0.0	0.0	66.4	66.5	70	N	-	-	14.8	Y	N	N
N5382	2	39.0	D2-12	-	52.1	0.0	26.2	0.0	66.2	0.0	0.0	66.2	66.4	70	N	-	-	14.3	Y	N	N
N5382	3	42.0	D2-12	-	52.7	0.0	26.2	0.0	66.1	0.0	0.0	66.1	66.3	70	N	-	-	13.6	Y	N	N
N5382	4	45.0	D2-12	-	53.0	0.0	26.2	0.0	65.9	0.0	0.0	65.9	66.1	70	N	-	-	13.1	Y	N	N
N5382	5	48.0	D2-12	-	53.3	0.0	26.2	0.0	65.7	0.0	0.0	65.7	66.0	70	N	-	-	12.7	Y	N	N
N5382	6	51.0	D2-12	-	53.5	0.0	26.2	0.0	65.6	0.0	0.0	65.6	65.8	70	N	-	-	12.3	Y	N	N
N5382	7	54.0	D2-12	-	53.6	0.0	26.2	0.0	65.4	0.0	0.0	65.4	65.7	70	N	-	-	12.1	Y	N	N
N5382	8	57.0	D2-12	-	53.7	0.0	26.2	0.0	65.2	0.0	0.0	65.2	65.5	70	N	-	-	11.8	Y	N	N
N5382	9	60.0	D2-12	-	53.8	0.0	26.3	0.0	65.0	0.0	0.0	65.0	65.4	70	N	-	-	11.6	Y	N	N
N5382	10	63.0	D2-12	-	54.0	0.0	26.3	0.0	64.9	0.0	0.0	64.9	65.2	70	N	-	-	11.2	Y	N	N
N5382	11	66.0	D2-12	-	54.2	0.0	26.2	0.0	64.8	0.0	0.0	64.8	65.1	70	N	-	-	10.9	Y	N	N
N5382	12	69.0	D2-12	-	54.3	0.0	26.3	0.0	64.6	0.0	0.0	64.6	65.0	70	N	-	-	10.7	Y	N	N
N5382	13	72.0	D2-12	-	54.4	0.0	26.3	0.0	64.4	0.0	0.0	64.4	64.9	70	N	-	-	10.5	Y	N	N
N5383	1	11.5	D2-12	-	65.9	0.0	47.9	9.9	0.0	0.0	0.0	47.9	66.0	70	N	-	-	0.1	N	N	N
N5383	2	15.0	D2-12	-	65.9	0.0	47.9	9.9	0.0	0.0	0.0	47.9	66.0	70	N	-	-	0.1	N	N	N
N5383	3	18.0	D2-12	-	65.8	0.0	47.9	9.9	0.0	0.0	0.0	47.9	65.9	70	N	-	-	0.1	N	N	N
N5383	4	21.0	D2-12	-	65.8	0.0	47.9	9.9	0.0	0.0	0.0	47.9	65.9	70	N	-	-	0.1	N	N	N
N5383	5	24.0	D2-12	-	65.7	0.0	47.9	9.9	0.0	0.0	0.0	47.9	65.8	70	N	-	-	0.1	N	N	N
N5383	6	27.0	D2-12	-	65.6	0.0	48.0	9.9	0.0	0.0	0.0	48.0	65.7	70	N	-	-	0.1	N	N	N
N5383	7	30.0	D2-12	-	65.5	0.0	48.0	9.9	0.0	0.0	0.0	48.0	65.6	70	N	-	-	0.1	N	N	N
N5383	8	33.0	D2-12	-	65.4	0.0	48.1	9.9	0.0	0.0	0.0	48.1	65.4	70	N	-	-	0.0	N	N	N
N5383	9	36.0	D2-12	-	65.2	0.0	48.1	9.9	0.0	0.0	0.0	48.1	65.3	70	N	-	-	0.1	N	N	N
N5383	10	39.0	D2-12	-	65.1	0.0	48.2	9.9	0.0	0.0	0.0	48.2	65.2	70	N	-	-	0.1	N	N	N
N5383	11	42.0	D2-12	-	65.0	0.0	48.4	9.9	0.0	0.0	0.0	48.4	65.1	70	N	-	-	0.1	N	N	N
N5383	12	45.0	D2-12	-	64.9	0.0	48.6	9.9	0.0	0.0	0.0	48.6	65.0	70	N	-	-	0.1	N	N	N
N5383	13	48.0	D2-12	-	64.8	0.0	48.8	9.9	0.0	0.0	0.0	48.8	64.9	70	N	-	-	0.1	N	N	N
N5383	14	51.0	D2-12	-	64.6	0.0	48.9	9.8	0.0	0.0	0.0	48.9	64.7	70	N	-	-	0.1	N	N	N
N5383	15	54.0	D2-12	-	64.5	0.0	49.0	9.8	0.0	0.0	0.0	49.0	64.6	70	N	-	-	0.1	N	N	N
N5383	16	57.0	D2-12	-	64.4	0.0	49.0	9.8	0.0	0.0	0.0	49.0	64.5	70	N	-	-	0.1	N	N	N
N5383	17	60.0	D2-12	-	64.3	0.0	49.1	9.8	0.0	0.0	0.0	49.1	64.4	70	N	-	-	0.1	N	N	N
N5383	18	63.0	D2-12	-	64.2	0.0	49.1	9.8	0.0	0.0	0.0	49.1	64.3	70	N	-	-	0.1	N	N	N
N5383	19	66.0	D2-12	-	64.0	0.0	49.2	9.8	0.0	0.0	0.0	49.2	64.2	70	N	-	-	0.2	N	N	N
N5383	20	69.0	D2-12	-	64.0	0.0	49.2	9.7	0.0	0.0	0.0	49.2	64.1	70	N	-	-	0.1	N	N	N
N5383	21	72.0	D2-12	-	63.9	0.0	49.3	9.7	0.0	0.0	0.0	49.3	64.0	70	N	-	-	0.1	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
N5384	1	11.5	D2-12	-	68.7	0.0	43.9	9.9	62.1	0.0	0.0	62.1	69.6	70	N	-	-	0.9	N	N	N
N5384	2	15.0	D2-12	-	68.7	0.0	43.9	9.9	62.1	0.0	0.0	62.1	69.6	70	N	-	-	0.9	N	N	N
N5384	3	18.0	D2-12	-	68.6	0.0	44.0	9.9	62.0	0.0	0.0	62.1	69.5	70	N	-	-	0.9	N	N	N
N5384	4	21.0	D2-12	-	68.5	0.0	44.0	9.9	61.9	0.0	0.0	62.0	69.3	70	N	-	-	0.8	N	N	N
N5384	5	24.0	D2-12	-	68.4	0.0	44.1	9.9	61.8	0.0	0.0	61.9	69.2	70	N	-	-	0.8	N	N	N
N5384	6	27.0	D2-12	-	68.3	0.0	44.2	9.9	61.7	0.0	0.0	61.8	69.1	70	N	-	-	0.8	N	N	N
N5384	7	30.0	D2-12	-	68.1	0.0	44.3	9.9	61.5	0.0	0.0	61.6	69.0	70	N	-	-	0.9	N	N	N
N5384	8	33.0	D2-12	-	68.0	0.0	44.6	9.9	61.4	0.0	0.0	61.4	68.9	70	N	-	-	0.9	N	N	N
N5384	9	36.0	D2-12	-	67.9	0.0	44.9	9.9	61.2	0.0	0.0	61.3	68.7	70	N	-	-	0.8	N	N	N
N5384	10	39.0	D2-12	-	67.7	0.0	45.4	9.9	61.0	0.0	0.0	61.2	68.6	70	N	-	-	0.9	N	N	N
N5384	11	42.0	D2-12	-	67.6	0.0	46.0	9.9	60.9	0.0	0.0	61.0	68.5	70	N	-	-	0.9	N	N	N
N5384	12	45.0	D2-12	-	67.5	0.0	46.8	9.9	60.7	0.0	0.0	60.9	68.3	70	N	-	-	0.8	N	N	N
N5384	13	48.0	D2-12	-	67.3	0.0	47.6	9.8	60.5	0.0	0.0	60.7	68.2	70	N	-	-	0.9	N	N	N
N5384	14	51.0	D2-12	-	67.2	0.0	48.1	9.8	60.3	0.0	0.0	60.6	68.0	70	N	-	-	0.8	N	N	N
N5384	15	54.0	D2-12	-	67.0	0.0	48.4	9.8	60.1	0.0	0.0	60.4	67.9	70	N	-	-	0.9	N	N	N
N5384	16	57.0	D2-12	-	66.9	0.0	48.6	9.8	60.0	0.0	0.0	60.3	67.8	70	N	-	-	0.9	N	N	N
N5384	17	60.0	D2-12	-	66.8	0.0	48.7	9.8	59.8	0.0	0.0	60.2	67.6	70	N	-	-	0.8	N	N	N
N5384	18	63.0	D2-12	-	66.6	0.0	48.8	9.8	59.6	0.0	0.0	60.0	67.5	70	N	-	-	0.9	N	N	N
N5384	19	66.0	D2-12	-	66.5	0.0	48.9	9.7	59.5	0.0	0.0	59.8	67.3	70	N	-	-	0.8	N	N	N
N5384	20	69.0	D2-12	-	66.4	0.0	48.9	9.7	59.3	0.0	0.0	59.7	67.2	70	N	-	-	0.8	N	N	N
N5384	21	72.0	D2-12	-	66.3	0.0	48.9	9.7	59.2	0.0	0.0	59.6	67.1	70	N	-	-	0.8	N	N	N
N5385	1	36.0	D2-12	-	44.9	0.0	30.9	0.0	64.7	0.0	0.0	64.7	64.8	70	N	-	-	19.9	Y	N	N
N5385	2	39.0	D2-12	-	45.9	0.0	31.0	0.0	64.7	0.0	0.0	64.7	64.7	70	N	-	-	18.8	Y	N	N
N5385	3	42.0	D2-12	-	46.9	0.0	31.1	0.0	64.6	0.0	0.0	64.6	64.6	70	N	-	-	17.7	Y	N	N
N5385	4	45.0	D2-12	-	47.6	0.0	31.1	0.0	64.5	0.0	0.0	64.5	64.6	70	N	-	-	17.0	Y	N	N
N5385	5	48.0	D2-12	-	48.6	0.0	31.2	0.0	64.4	0.0	0.0	64.5	64.6	70	N	-	-	16.0	Y	N	N
N5385	6	51.0	D2-12	-	49.2	0.0	31.2	0.0	64.4	0.0	0.0	64.4	64.5	70	N	-	-	15.3	Y	N	N
N5385	7	54.0	D2-12	-	49.7	0.0	31.2	0.0	64.3	0.0	0.0	64.3	64.4	70	N	-	-	14.7	Y	N	N
N5385	8	57.0	D2-12	-	49.9	0.0	31.3	0.0	64.1	0.0	0.0	64.1	64.3	70	N	-	-	14.4	Y	N	N
N5385	9	60.0	D2-12	-	50.2	0.0	31.3	0.0	64.0	0.0	0.0	64.0	64.2	70	N	-	-	14.0	Y	N	N
N5385	10	63.0	D2-12	-	50.4	0.0	31.4	0.0	63.9	0.0	0.0	63.9	64.1	70	N	-	-	13.7	Y	N	N
N5385	11	66.0	D2-12	-	50.7	0.0	31.4	0.0	63.8	0.0	0.0	63.8	64.0	70	N	-	-	13.3	Y	N	N
N5385	12	69.0	D2-12	-	51.1	0.0	31.5	0.0	63.6	0.0	0.0	63.6	63.8	70	N	-	-	12.7	Y	N	N
N5385	13	72.0	D2-12	-	51.3	0.0	31.5	0.0	63.5	0.0	0.0	63.5	63.8	70	N	-	-	12.5	Y	N	N
N5386	1	11.5	D2-12	-	42.9	0.0	48.3	0.0	63.4	0.0	0.0	63.5	63.6	70	N	-	-	20.7	Y	N	N
N5386	2	15.0	D2-12	-	44.7	0.0	48.4	0.0	63.3	0.0	0.0	63.5	63.5	70	N	-	-	18.8	Y	N	N
N5386	3	18.0	D2-12	-	46.5	0.0	48.5	0.0	63.3	0.0	0.0	63.5	63.5	70	N	-	-	17.0	Y	N	N
N5386	4	21.0	D2-12	-	48.1	0.0	48.5	0.0	63.3	0.0	0.0	63.4	63.5	70	N	-	-	15.4	Y	N	N
N5386	5	24.0	D2-12	-	49.3	0.0	48.7	0.0	63.2	0.0	0.0	63.3	63.5	70	N	-	-	14.2	Y	N	N
N5386	6	27.0	D2-12	-	50.6	0.0	48.8	0.0	63.1	0.0	0.0	63.2	63.5	70	N	-	-	12.9	Y	N	N
N5386	7	30.0	D2-12	-	51.8	0.0	48.9	0.0	63.0	0.0	0.0	63.2	63.5	70	N	-	-	11.7	Y	N	N
N5386	8	33.0	D2-12	-	52.7	0.0	49.1	0.0	63.0	0.0	0.0	63.2	63.6	70	N	-	-	10.9	Y	N	N
N5386	9	36.0	D2-12	-	53.6	0.0	49.2	0.0	63.0	0.0	0.0	63.2	63.6	70	N	-	-	10.0	Y	N	N
N5386	10	39.0	D2-12	-	54.4	0.0	49.4	0.0	62.9	0.0	0.0	63.1	63.6	70	N	-	-	9.2	Y	N	N
N5386	11	42.0	D2-12	-	55.0	0.0	49.7	0.0	62.8	0.0	0.0	63.1	63.7	70	N	-	-	8.7	Y	N	N
N5386	12	45.0	D2-12	-	55.5	0.0	49.9	0.0	62.8	0.0	0.0	63.0	63.7	70	N	-	-	8.2	Y	N	N
N5386	13	48.0	D2-12	-	55.8	0.0	50.2	0.0	62.8	0.0	0.0	63.0	63.8	70	N	-	-	8.0	Y	N	N
N5386	14	51.0	D2-12	-	56.1	0.0	50.5	0.0	62.8	0.0	0.0	63.1	63.9	70	N	-	-	7.8	Y	N	N
N5386	15	54.0	D2-12	-	56.2	0.0	51.0	0.0	62.8	0.0	0.0	63.1	63.9	70	N	-	-	7.7	Y	N	N
N5386	16	57.0	D2-12	-	56.4	0.0	51.5	0.0	62.8	0.0	0.0	63.1	63.9	70	N	-	-	7.5	Y	N	N
N5386	17	60.0	D2-12	-	56.4	0.0	52.2	0.0	62.7	0.0	0.0	63.0	63.9	70	N	-	-	7.5	Y	N	N
N5386	18	63.0	D2-12	-	56.5	0.0	52.4	0.0	62.6	0.0	0.0	63.0	63.9	70	N	-	-	7.4	Y	N	N
N5386	19	66.0	D2-12	-	56.5	0.0	52.9	0.0	62.5	0.0	0.0	62.9	63.8	70	N	-	-	7.3	Y	N	N
N5386	20	69.0	D2-12	-	56.7	0.0	53.5	0.0	62.4	0.0	0.0	62.9	63.8	70	N	-	-	7.1	Y	N	N
N5386	21	72.0	D2-12	-	56.8	0.0	54.0	0.0	62.3	0.0	0.0	62.9	63.8	70	N	-	-	7.0	Y	N	N
N5387	1	36.0	D2-12	-	61.9	0.0	45.0	9.4	0.0	0.0	0.0	45.0	62.0	70	N	-	-	0.1	N	N	N
N5387	2	39.0	D2-12	-	61.8	0.0	45.0	9.4	0.0	0.0	0.0	45.0	61.9	70	N	-	-	0.1	N	N	N
N5387	3	42.0	D2-12	-	61.8	0.0	45.1	9.4	0.0	0.0	0.0	45.1	61.9	70	N	-	-	0.1	N	N	N
N5387	4	45.0	D2-12	-	61.7	0.0	45.1	9.4	0.0	0.0	0.0	45.1	61.8	70	N	-	-	0.1	N	N	N
N5387	5	48.0	D2-12	-	61.6	0.0	45.2	9.4	0.0	0.0	0.0	45.2	61.7	70	N	-	-	0.1	N	N	N
N5387	6	51.0	D2-12	-	61.5	0.0	45.2	9.3	0.0	0.0	0.0	45.2	61.6	70	N	-	-	0.1	N	N	N
N5387	7	54.0	D2-12	-	61.4	0.0	45.3	9.3	0.0	0.0	0.0	45.3	61.5	70	N	-	-	0.1	N	N	N
N5387	8	57.0	D2-12	-	61.4	0.0	45.3	9.3	0.0	0.0	0.0	45.3	61.5	70	N	-	-	0.1	N	N	N
N5387	9	60.0	D2-12	-	61.3	0.0	45.4	9.3	0.0	0.0	0.0	45.4	61.4	70	N	-	-	0.1	N	N	N
N5387	10	63.0	D2-12	-	61.2	0.0	45.4	9.3	0.0	0.0	0.0	45.4	61.3	70	N	-	-	0.1	N	N	N
N5387	11	66.0	D2-12	-	61.2	0.0	45.5	9.3	0.0	0.0	0.0	45.5	61.3	70	N	-	-	0.1	N	N	N
N5387	12	69.0	D2-12	-	61.1	0.0	45.6	9.3	0.0	0.0	0.0	45.6	61.2	70	N	-	-	0.1	N	N	N
N5387	13	72.0	D2-12	-	61.0	0.0	45.7	9.3	0.0	0.0	0.0	45.7	61.2	70	N	-	-	0.2	N	N	N
N5388	1	11.5	D2-12	-	49.0	0.0	59.9	0.0	47.0	0.0	0.0	60.1	60.4	70	N	-	-	11.4	Y	N	N
N5388	2	15.0	D2-12	-	51.7	0.0	60.1	0.0	47.1	0.0	0.0	60.3	60.9	70	N	-	-	9.2	Y	N	N
N5388	3	18.0	D2-12	-	54.3	0.0	60.4	0.0	47.1	0.0	0.0	60.6	61.5	70	N	-	-	7.2	Y	N	N
N5388	4	21.0	D2-12	-	57.1	0.0	60.9	0.0	47.2	0.0	0.0	61.0	62.5	70	N	-	-	5.4	Y	N	N
N5388	5	24.0	D2-12	-	59.1	0.0	61.6	0.0	47.2	0.0	0.0	61.7	63.6	70	N	-	-	4.5	Y	N	N
N5388	6	27.0	D2-12	-	60.0	0.0	62.5	0.0	47.4	0.0	0.0	62.6	64.5	70	N	-	-	4.5	Y	N	N
N5388	7	30.0	D2-12	-	60.7	0.0	63.3	0.0	47.8	0.0	0.0	63.5	65.3	70	N	-	-	4.6	Y	N	N
N5388	8	33.0	D2-12	-	61.2	0.0	64.2	0.0	48.2	0.0	0.0	64.3	66.0	70	N	-	-	4.8	Y	N	N
N5388	9	36.0	D2-12	-	61.7	0.0	65.0	0.0	48.4	0.0	0.0	65.1	66.7	70	N	-	-	5.0	Y	N	N
N5388	10	39.0	D2-12	-	62.0	0.0	65.7	0.0	48.6	0.0	0.0	65.8	67.3	70	N	-	-	5.3	Y	N	N
N5388	11	42.0	D2-12	-	62.2	0.0	66.1	0.0	48.9	0.0	0.0	66.2	67.7	70	N	-	-	5.5	Y	N	N
N5388	12	45.0	D2-12	-	62.4	0.0	66.4	0.0	49.3	0.0	0.0	66.5	67.9	70	N	-	-	5.5	Y	N	N
N5388	13	48.0	D2-12	-	62.5	0.0	66.6	0.0	49.8	0.0	0.0	66.7	68.1	70	N	-	-	5.6	Y	N	N
N5388	14	51.0	D2-12	-	62.6	0.0	66.8	0.0	50.2	0.0	0.0	66.9	68.3	70	N	-	-	5.7	Y	N	N
N5388	15	54.0	D2-12	-	62.6	0.0	66.9	0.0	50.5	0.0	0.0	67.0	68.4	70	N	-	-	5.8	Y	N	N
N5388	16	57.0	D2-12	-	62.7	0.0	67.0	0.0	50.8	0.0	0.0	67.1	68.5	70	N	-	-	5.8	Y	N	N
N5389	1	11.5	D2-12	-	48.8	0.0	63.3	0.0	31.6	0.0	0.0	63.3	63.4	70	N	-	-	14.6	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
N5389	2	15.0	D2-12	-	51.8	0.0	63.5	0.0	32.3	0.0	0.0	63.5	63.8	70	N	-	-	12.0	Y	N	N
N5389	3	18.0	D2-12	-	55.0	0.0	63.8	0.0	32.9	0.0	0.0	63.8	64.3	70	N	-	-	9.3	Y	N	N
N5389	4	21.0	D2-12	-	58.3	0.0	64.3	0.0	33.4	0.0	0.0	64.3	65.3	70	N	-	-	7.0	Y	N	N
N5389	5	24.0	D2-12	-	60.1	0.0	65.2	0.0	34.1	0.0	0.0	65.2	66.4	70	N	-	-	6.3	Y	N	N
N5389	6	27.0	D2-12	-	60.9	0.0	66.1	0.0	34.7	0.0	0.0	66.1	67.2	70	N	-	-	6.3	Y	N	N
N5389	7	30.0	D2-12	-	61.6	0.0	66.9	0.0	35.5	0.0	0.0	66.9	68.0	70	N	-	-	6.4	Y	N	N
N5389	8	33.0	D2-12	-	62.1	0.0	67.7	0.0	36.3	0.0	0.0	67.7	68.8	70	N	-	-	6.7	Y	N	N
N5389	9	36.0	D2-12	-	62.4	0.0	68.2	0.0	37.2	0.0	0.0	68.2	69.2	70	N	-	-	6.8	Y	N	N
N5389	10	39.0	D2-12	-	62.7	0.0	68.5	0.0	38.3	0.0	0.0	68.5	69.5	70	N	-	-	6.8	Y	N	N
N5389	11	42.0	D2-12	-	62.9	0.0	68.6	0.0	39.9	0.0	0.0	68.6	69.7	70	N	-	-	6.8	Y	N	N
N5389	12	45.0	D2-12	-	63.0	0.0	68.7	0.0	41.3	0.0	0.0	68.7	69.8	70	N	-	-	6.8	Y	N	N
N5389	13	48.0	D2-12	-	63.1	0.0	68.8	0.0	42.8	0.0	0.0	68.8	69.9	70	N	-	-	6.8	Y	N	N
N5389	14	51.0	D2-12	-	63.1	0.0	68.9	0.0	43.7	0.0	0.0	68.9	69.9	70	N	-	-	6.8	Y	N	N
N5389	15	54.0	D2-12	-	63.2	0.0	69.0	0.0	44.1	0.0	0.0	69.0	70.0	70	N	-	-	6.8	Y	N	N
N5389	16	57.0	D2-12	-	63.2	0.0	69.0	0.0	44.5	0.0	0.0	69.0	70.0	70	N	-	-	6.8	Y	N	N
N5390	1	11.5	D2-12	-	59.6	0.0	12.3	0.0	31.6	0.0	0.0	31.6	59.6	70	N	-	-	0.0	N	N	N
N5390	2	15.0	D2-12	-	59.6	0.0	12.3	0.0	33.1	0.0	0.0	33.1	59.6	70	N	-	-	0.0	N	N	N
N5390	3	18.0	D2-12	-	59.7	0.0	12.3	0.0	34.6	0.0	0.0	34.6	59.7	70	N	-	-	0.0	N	N	N
N5390	4	21.0	D2-12	-	59.8	0.0	12.3	0.0	36.4	0.0	0.0	36.4	59.8	70	N	-	-	0.0	N	N	N
N5390	5	24.0	D2-12	-	60.2	0.0	12.3	0.0	38.8	0.0	0.0	38.8	60.2	70	N	-	-	0.0	N	N	N
N5390	6	27.0	D2-12	-	60.9	0.0	12.3	0.0	41.5	0.0	0.0	41.6	60.9	70	N	-	-	0.0	N	N	N
N5390	7	30.0	D2-12	-	61.6	0.0	12.3	0.0	44.3	0.0	0.0	44.4	61.7	70	N	-	-	0.1	N	N	N
N5390	8	33.0	D2-12	-	62.1	0.0	12.3	0.0	45.6	0.0	0.0	45.6	62.2	70	N	-	-	0.1	N	N	N
N5390	9	36.0	D2-12	-	62.1	0.0	12.3	0.0	46.0	0.0	0.0	46.0	62.2	70	N	-	-	0.1	N	N	N
N5390	10	39.0	D2-12	-	62.2	0.0	12.3	0.0	46.2	0.0	0.0	46.2	62.3	70	N	-	-	0.1	N	N	N
N5390	11	42.0	D2-12	-	62.2	0.0	12.2	0.0	46.3	0.0	0.0	46.3	62.3	70	N	-	-	0.1	N	N	N
N5390	12	45.0	D2-12	-	62.1	0.0	12.1	0.0	46.3	0.0	0.0	46.3	62.2	70	N	-	-	0.1	N	N	N
N5390	13	48.0	D2-12	-	62.1	0.0	12.2	0.0	46.3	0.0	0.0	46.3	62.2	70	N	-	-	0.1	N	N	N
N5390	14	51.0	D2-12	-	62.0	0.0	12.2	0.0	46.2	0.0	0.0	46.3	62.1	70	N	-	-	0.1	N	N	N
N5390	15	54.0	D2-12	-	62.0	0.0	12.3	0.0	46.2	0.0	0.0	46.2	62.1	70	N	-	-	0.1	N	N	N
N5390	16	57.0	D2-12	-	61.9	0.0	12.3	0.0	46.2	0.0	0.0	46.2	62.0	70	N	-	-	0.1	N	N	N
N5391	1	11.5	D2-12	-	48.4	0.0	64.7	0.0	18.0	0.0	0.0	64.7	64.8	70	N	-	-	16.4	Y	N	N
N5391	2	15.0	D2-12	-	51.6	0.0	64.8	0.0	18.0	0.0	0.0	64.8	65.0	70	N	-	-	13.4	Y	N	N
N5391	3	18.0	D2-12	-	55.1	0.0	65.1	0.0	18.0	0.0	0.0	65.1	65.5	70	N	-	-	10.4	Y	N	N
N5391	4	21.0	D2-12	-	59.0	0.0	65.5	0.0	18.0	0.0	0.0	65.5	66.4	70	N	-	-	7.4	Y	N	N
N5391	5	24.0	D2-12	-	61.2	0.0	66.1	0.0	17.9	0.0	0.0	66.1	67.3	70	N	-	-	6.1	Y	N	N
N5391	6	27.0	D2-12	-	62.1	0.0	66.8	0.0	17.9	0.0	0.0	66.8	68.1	70	N	-	-	6.0	Y	N	N
N5391	7	30.0	D2-12	-	62.7	0.0	67.4	0.0	17.9	0.0	0.0	67.4	68.7	70	N	-	-	6.0	Y	N	N
N5391	8	33.0	D2-12	-	63.1	0.0	68.1	0.0	17.9	0.0	0.0	68.1	69.3	70	N	-	-	6.2	Y	N	N
N5391	9	36.0	D2-12	-	63.3	0.0	68.4	0.0	17.9	0.0	0.0	68.4	69.6	70	N	-	-	6.3	Y	N	N
N5391	10	39.0	D2-12	-	63.4	0.0	68.5	0.0	17.9	0.0	0.0	68.5	69.7	70	N	-	-	6.3	Y	N	N
N5391	11	42.0	D2-12	-	63.5	0.0	68.7	0.0	18.0	0.0	0.0	68.7	69.8	70	N	-	-	6.3	Y	N	N
N5391	12	45.0	D2-12	-	63.5	0.0	68.7	0.0	18.0	0.0	0.0	68.7	69.9	70	N	-	-	6.4	Y	N	N
N5391	13	48.0	D2-12	-	63.6	0.0	68.8	0.0	18.0	0.0	0.0	68.8	69.9	70	N	-	-	6.3	Y	N	N
N5391	14	51.0	D2-12	-	63.6	0.0	68.9	0.0	18.0	0.0	0.0	68.9	70.0	70	N	-	-	6.4	Y	N	N
N5391	15	54.0	D2-12	-	63.7	0.0	68.9	0.0	18.0	0.0	0.0	68.9	70.1	70	N	-	-	6.4	Y	N	N
N5391	16	57.0	D2-12	-	63.7	0.0	68.9	0.0	18.0	0.0	0.0	68.9	70.1	70	N	-	-	6.4	Y	N	N
N5392	1	11.5	D2-12	-	63.0	0.0	62.4	10.5	0.0	0.0	0.0	62.4	65.7	70	N	-	-	2.7	Y	N	N
N5392	2	15.0	D2-12	-	63.2	0.0	62.5	10.6	0.0	0.0	0.0	62.5	65.9	70	N	-	-	2.7	Y	N	N
N5392	3	18.0	D2-12	-	63.5	0.0	62.6	10.6	0.0	0.0	0.0	62.6	66.1	70	N	-	-	2.6	Y	N	N
N5392	4	21.0	D2-12	-	64.4	0.0	62.9	10.6	0.0	0.0	0.0	62.9	66.7	70	N	-	-	2.3	Y	N	N
N5392	5	24.0	D2-12	-	65.1	0.0	63.3	10.6	0.0	0.0	0.0	63.3	67.3	70	N	-	-	2.2	Y	N	N
N5392	6	27.0	D2-12	-	65.3	0.0	63.7	10.6	0.0	0.0	0.0	63.7	67.6	70	N	-	-	2.3	Y	N	N
N5392	7	30.0	D2-12	-	65.4	0.0	64.4	10.6	0.0	0.0	0.0	64.4	67.9	70	N	-	-	2.5	Y	N	N
N5392	8	33.0	D2-12	-	65.4	0.0	65.0	10.6	0.0	0.0	0.0	65.0	68.3	70	N	-	-	2.9	Y	N	N
N5392	9	36.0	D2-12	-	65.4	0.0	65.7	10.6	0.0	0.0	0.0	65.7	68.6	70	N	-	-	3.2	Y	N	N
N5392	10	39.0	D2-12	-	65.5	0.0	66.0	10.6	0.0	0.0	0.0	66.0	68.7	70	N	-	-	3.2	Y	N	N
N5392	11	42.0	D2-12	-	65.4	0.0	66.2	10.6	0.0	0.0	0.0	66.2	68.8	70	N	-	-	3.4	Y	N	N
N5392	12	45.0	D2-12	-	65.4	0.0	66.3	10.6	0.0	0.0	0.0	66.3	68.9	70	N	-	-	3.5	Y	N	N
N5392	13	48.0	D2-12	-	65.4	0.0	66.4	10.6	0.0	0.0	0.0	66.4	68.9	70	N	-	-	3.5	Y	N	N
N5392	14	51.0	D2-12	-	65.3	0.0	66.4	10.6	0.0	0.0	0.0	66.4	68.9	70	N	-	-	3.6	Y	N	N
N5392	15	54.0	D2-12	-	65.3	0.0	66.5	10.6	0.0	0.0	0.0	66.5	68.9	70	N	-	-	3.6	Y	N	N
N5392	16	57.0	D2-12	-	65.2	0.0	66.6	10.6	0.0	0.0	0.0	66.6	69.0	70	N	-	-	3.8	Y	N	N
N5393	1	11.5	D2-12	-	67.0	0.0	35.8	10.4	48.6	0.0	0.0	48.8	67.1	70	N	-	-	0.1	N	N	N
N5393	2	15.0	D2-12	-	67.0	0.0	35.8	10.4	48.6	0.0	0.0	48.8	67.0	70	N	-	-	0.0	N	N	N
N5393	3	18.0	D2-12	-	66.9	0.0	35.8	10.4	48.6	0.0	0.0	48.8	67.0	70	N	-	-	0.1	N	N	N
N5393	4	21.0	D2-12	-	66.8	0.0	35.8	10.4	48.6	0.0	0.0	48.8	66.9	70	N	-	-	0.1	N	N	N
N5393	5	24.0	D2-12	-	66.7	0.0	35.8	10.4	48.6	0.0	0.0	48.8	66.7	70	N	-	-	0.0	N	N	N
N5393	6	27.0	D2-12	-	66.5	0.0	35.9	10.4	48.6	0.0	0.0	48.8	66.6	70	N	-	-	0.1	N	N	N
N5393	7	30.0	D2-12	-	66.4	0.0	36.1	10.4	48.5	0.0	0.0	48.8	66.5	70	N	-	-	0.1	N	N	N
N5393	8	33.0	D2-12	-	66.2	0.0	36.4	10.4	48.5	0.0	0.0	48.8	66.3	70	N	-	-	0.1	N	N	N
N5393	9	36.0	D2-12	-	66.1	0.0	36.7	10.4	48.5	0.0	0.0	48.8	66.1	70	N	-	-	0.0	N	N	N
N5393	10	39.0	D2-12	-	65.9	0.0	37.2	10.4	48.5	0.0	0.0	48.8	66.0	70	N	-	-	0.1	N	N	N
N5393	11	42.0	D2-12	-	65.7	0.0	37.7	10.4	48.5	0.0	0.0	48.8	65.8	70	N	-	-	0.1	N	N	N
N5393	12	45.0	D2-12	-	65.6	0.0	38.4	10.4	48.5	0.0	0.0	48.9	65.7	70	N	-	-	0.1	N	N	N
N5393	13	48.0	D2-12	-	65.4	0.0	39.1	10.4	48.5	0.0	0.0	48.9	65.5	70	N	-	-	0.1	N	N	N
N5393	14	51.0	D2-12	-	65.2	0.0	39.9	10.4	48.5	0.0	0.0	49.0	65.3	70	N	-	-	0.1	N	N	N
N5393	15	54.0	D2-12	-	65.1	0.0	40.8	10.4	48.5	0.0	0.0	49.2	65.2	70	N	-	-	0.1	N	N	N
N5393	16	57.0	D2-12	-	64.9	0.0	41.9	10.4	48.5	0.0	0.0	49.3	65.0	70	N	-	-	0.1	N	N	N
N5394	1	11.5	D2-12	-	65.4	0.0	0.0	10.3	48.7	0.0	0.0	48.7	65.5	70	N	-	-	0.1	N	N	N
N5394	2	15.0	D2-12	-	65.4	0.0	0.0	10.3	48.7	0.0	0.0	48.7	65.5	70	N	-	-	0.1	N	N	N
N5394	3	18.0	D2-12	-	65.4	0.0	0.0	10.3	48.7	0.0	0.0	48.7	65.5	70	N	-	-	0.1	N	N	N
N5394	4	21.0	D2-12	-	65.3	0.0	0.0	10.3	48.7	0.0	0.0	48.7	65.4	70	N	-	-	0.1	N	N	N
N5394	5	24.0	D2-12	-	65.2	0.0	0.0	10.3	48.7	0.0	0.0	48.7	65.3	70	N	-	-	0.1	N	N	N
N5394	6	27.0	D2-12	-	65.1	0.0	0.0	10.3	48.7	0.0	0.0	48.7	65.2	70	N	-	-	0.1	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
N5394	7	30.0	D2-12	-	64.9	0.0	0.0	10.3	48.8	0.0	0.0	48.8	65.0	70	N	-	-	0.1	N	N	N
N5394	8	33.0	D2-12	-	64.8	0.0	0.0	10.3	48.8	0.0	0.0	48.8	64.9	70	N	-	-	0.1	N	N	N
N5394	9	36.0	D2-12	-	64.7	0.0	0.0	10.3	48.8	0.0	0.0	48.8	64.8	70	N	-	-	0.1	N	N	N
N5394	10	39.0	D2-12	-	64.5	0.0	0.0	10.3	48.7	0.0	0.0	48.7	64.6	70	N	-	-	0.1	N	N	N
N5394	11	42.0	D2-12	-	64.4	0.0	0.0	10.3	48.8	0.0	0.0	48.8	64.5	70	N	-	-	0.1	N	N	N
N5394	12	45.0	D2-12	-	64.2	0.0	0.0	10.4	48.9	0.0	0.0	48.9	64.3	70	N	-	-	0.1	N	N	N
N5394	13	48.0	D2-12	-	64.1	0.0	0.0	10.3	49.0	0.0	0.0	49.0	64.2	70	N	-	-	0.1	N	N	N
N5394	14	51.0	D2-12	-	63.9	0.0	0.0	10.3	49.1	0.0	0.0	49.1	64.1	70	N	-	-	0.2	N	N	N
N5394	15	54.0	D2-12	-	63.8	0.0	0.0	10.3	49.3	0.0	0.0	49.3	64.0	70	N	-	-	0.2	N	N	N
N5394	16	57.0	D2-12	-	63.7	0.0	0.0	10.3	49.6	0.0	0.0	49.6	63.8	70	N	-	-	0.1	N	N	N
N5400	1	16.5	D3-1b	-	18.8	0.0	47.6	22.8	66.7	0.0	0.0	66.7	66.7	70	N	-	-	47.8	Y	N	N
N5400	2	19.3	D3-1b	-	18.9	0.0	47.9	22.8	66.6	0.0	0.0	66.7	66.7	70	N	-	-	47.7	Y	N	N
N5400	3	22.1	D3-1b	-	18.9	0.0	48.1	22.8	66.5	0.0	0.0	66.5	66.5	70	N	-	-	47.5	Y	N	N
N5400	4	24.9	D3-1b	-	19.0	0.0	48.3	22.8	66.3	0.0	0.0	66.4	66.4	70	N	-	-	47.3	Y	N	N
N5400	5	27.7	D3-1b	-	19.0	0.0	48.4	22.8	66.2	0.0	0.0	66.3	66.3	70	N	-	-	47.2	Y	N	N
N5400	6	30.5	D3-1b	-	19.0	0.0	48.7	22.7	66.1	0.0	0.0	66.2	66.2	70	N	-	-	47.1	Y	N	N
N5400	7	33.3	D3-1b	-	19.1	0.0	48.9	22.7	66.0	0.0	0.0	66.0	66.0	70	N	-	-	46.8	Y	N	N
N5400	8	36.1	D3-1b	-	19.2	0.0	49.1	22.7	65.8	0.0	0.0	65.9	65.9	70	N	-	-	46.6	Y	N	N
N5400	9	38.9	D3-1b	-	19.2	0.0	49.3	22.7	65.7	0.0	0.0	65.8	65.8	70	N	-	-	46.5	Y	N	N
N5400	10	41.7	D3-1b	-	19.3	0.0	49.5	22.7	65.5	0.0	0.0	65.6	65.6	70	N	-	-	46.2	Y	N	N
N5400	11	44.5	D3-1b	-	19.3	0.0	49.7	22.6	65.3	0.0	0.0	65.5	65.5	70	N	-	-	46.1	Y	N	N
N5400	12	47.3	D3-1b	-	19.4	0.0	49.9	22.6	65.2	0.0	0.0	65.3	65.3	70	N	-	-	45.9	Y	N	N
N5400	13	50.1	D3-1b	-	19.5	0.0	50.2	22.6	65.1	0.0	0.0	65.2	65.2	70	N	-	-	45.7	Y	N	N
N5400	14	52.9	D3-1b	-	19.6	0.0	50.4	22.6	64.9	0.0	0.0	65.1	65.1	70	N	-	-	45.5	Y	N	N
N5400	15	55.7	D3-1b	-	19.7	0.0	50.5	22.5	64.8	0.0	0.0	64.9	64.9	70	N	-	-	45.2	Y	N	N
N5400	16	58.5	D3-1b	-	19.8	0.0	50.7	22.6	64.7	0.0	0.0	64.8	64.8	70	N	-	-	45.0	Y	N	N
N5400	17	61.3	D3-1b	-	19.9	0.0	50.8	22.7	64.5	0.0	0.0	64.7	64.7	70	N	-	-	44.8	Y	N	N
N5400	18	64.1	D3-1b	-	20.0	0.0	51.0	22.8	64.4	0.0	0.0	64.6	64.6	70	N	-	-	44.6	Y	N	N
N5400	19	66.9	D3-1b	-	20.1	0.0	51.1	22.9	64.3	0.0	0.0	64.5	64.5	70	N	-	-	44.4	Y	N	N
N5400	20	69.7	D3-1b	-	20.3	0.0	51.3	23.2	64.2	0.0	0.0	64.4	64.4	70	N	-	-	44.1	Y	N	N
N5400	21	72.5	D3-1b	-	20.4	0.0	51.3	23.5	64.0	0.0	0.0	64.3	64.3	70	N	-	-	43.9	Y	N	N
N5400	22	75.3	D3-1b	-	20.6	0.0	51.5	23.9	63.9	0.0	0.0	64.2	64.2	70	N	-	-	43.6	Y	N	N
N5400	23	78.1	D3-1b	-	20.7	0.0	51.5	24.5	63.8	0.0	0.0	64.0	64.0	70	N	-	-	43.3	Y	N	N
N5400	24	80.9	D3-1b	-	20.9	0.0	51.6	25.1	63.7	0.0	0.0	63.9	63.9	70	N	-	-	43.0	Y	N	N
N5400	25	83.7	D3-1b	-	21.1	0.0	51.7	25.9	63.5	0.0	0.0	63.8	63.8	70	N	-	-	42.7	Y	N	N
N5400	26	86.5	D3-1b	-	21.4	0.0	51.7	26.8	63.4	0.0	0.0	63.7	63.7	70	N	-	-	42.3	Y	N	N
N5400	27	89.3	D3-1b	-	21.7	0.0	51.8	27.8	63.3	0.0	0.0	63.6	63.6	70	N	-	-	41.9	Y	N	N
N5400	28	92.1	D3-1b	-	21.9	0.0	51.9	28.8	63.2	0.0	0.0	63.5	63.5	70	N	-	-	41.6	Y	N	N
N5400	29	94.9	D3-1b	-	22.3	0.0	52.0	30.0	63.1	0.0	0.0	63.4	63.4	70	N	-	-	41.1	Y	N	N
N5400	30	97.7	D3-1b	-	22.7	0.0	51.9	31.2	63.0	0.0	0.0	63.4	63.4	70	N	-	-	40.7	Y	N	N
N5400	31	100.5	D3-1b	-	23.2	0.0	52.0	32.8	62.9	0.0	0.0	63.2	63.2	70	N	-	-	40.0	Y	N	N
N5400	32	103.3	D3-1b	-	23.5	0.0	52.1	34.7	62.8	0.0	0.0	63.1	63.1	70	N	-	-	39.6	Y	N	N
N5406	1	16.5	D3-1b	-	9.6	0.0	47.8	50.7	65.1	0.0	0.0	65.3	65.3	70	N	-	-	55.2	Y	N	N
N5406	2	19.3	D3-1b	-	10.1	0.0	48.7	54.0	65.2	0.0	0.0	65.6	65.6	70	N	-	-	55.1	Y	N	N
N5406	3	22.1	D3-1b	-	10.5	0.0	49.1	54.3	65.2	0.0	0.0	65.7	65.7	70	N	-	-	54.8	Y	N	N
N5406	4	24.9	D3-1b	-	11.0	0.0	49.5	54.3	65.2	0.0	0.0	65.7	65.7	70	N	-	-	54.4	Y	N	N
N5406	5	27.7	D3-1b	-	11.4	0.0	49.8	54.3	65.3	0.0	0.0	65.8	65.8	70	N	-	-	54.1	Y	N	N
N5406	6	30.5	D3-1b	-	11.8	0.0	50.2	54.3	65.5	0.0	0.0	65.9	65.9	70	N	-	-	53.8	Y	N	N
N5406	7	33.3	D3-1b	-	12.3	0.0	50.5	54.3	65.8	0.0	0.0	66.2	66.2	70	N	-	-	53.7	Y	N	N
N5406	8	36.1	D3-1b	-	12.6	0.0	50.7	54.3	66.1	0.0	0.0	66.5	66.5	70	N	-	-	53.7	Y	N	N
N5406	9	38.9	D3-1b	-	13.0	0.0	51.0	54.4	66.4	0.0	0.0	66.7	66.7	70	N	-	-	53.5	Y	N	N
N5406	10	41.7	D3-1b	-	13.4	0.0	51.2	54.4	66.6	0.0	0.0	66.9	66.9	70	N	-	-	53.3	Y	N	N
N5406	11	44.5	D3-1b	-	13.8	0.0	51.2	54.4	66.7	0.0	0.0	67.1	67.1	70	N	-	-	53.1	Y	N	N
N5406	12	47.3	D3-1b	-	14.2	0.0	51.4	54.4	66.7	0.0	0.0	67.1	67.1	70	N	-	-	52.7	Y	N	N
N5406	13	50.1	D3-1b	-	14.6	0.0	51.5	54.4	66.7	0.0	0.0	67.1	67.1	70	N	-	-	52.4	Y	N	N
N5406	14	52.9	D3-1b	-	15.0	0.0	51.6	54.4	66.6	0.0	0.0	67.0	67.0	70	N	-	-	51.9	Y	N	N
N5406	15	55.7	D3-1b	-	15.4	0.0	51.8	54.5	66.6	0.0	0.0	67.0	67.0	70	N	-	-	51.5	Y	N	N
N5406	16	58.5	D3-1b	-	15.9	0.0	51.8	54.5	66.5	0.0	0.0	66.9	66.9	70	N	-	-	50.9	Y	N	N
N5406	17	61.3	D3-1b	-	16.3	0.0	51.9	54.5	66.4	0.0	0.0	66.8	66.8	70	N	-	-	50.4	Y	N	N
N5406	18	64.1	D3-1b	-	16.7	0.0	52.0	54.5	66.4	0.0	0.0	66.8	66.8	70	N	-	-	50.0	Y	N	N
N5406	19	66.9	D3-1b	-	17.2	0.0	52.1	54.5	66.3	0.0	0.0	66.7	66.7	70	N	-	-	49.4	Y	N	N
N5406	20	69.7	D3-1b	-	17.6	0.0	52.1	54.5	66.2	0.0	0.0	66.6	66.6	70	N	-	-	48.9	Y	N	N
N5406	21	72.5	D3-1b	-	18.0	0.0	52.1	54.5	66.1	0.0	0.0	66.5	66.5	70	N	-	-	48.4	Y	N	N
N5406	22	75.3	D3-1b	-	18.4	0.0	52.1	54.5	66.0	0.0	0.0	66.5	66.5	70	N	-	-	48.0	Y	N	N
N5406	23	78.1	D3-1b	-	18.8	0.0	52.2	54.4	65.9	0.0	0.0	66.4	66.4	70	N	-	-	47.5	Y	N	N
N5406	24	80.9	D3-1b	-	19.3	0.0	52.3	54.4	65.8	0.0	0.0	66.2	66.2	70	N	-	-	46.8	Y	N	N
N5406	25	83.7	D3-1b	-	19.8	0.0	52.3	54.4	65.6	0.0	0.0	66.2	66.2	70	N	-	-	46.4	Y	N	N
N5406	26	86.5	D3-1b	-	20.3	0.0	52.4	54.5	65.5	0.0	0.0	66.1	66.1	70	N	-	-	45.8	Y	N	N
N5406	27	89.3	D3-1b	-	20.8	0.0	52.4	54.5	65.4	0.0	0.0	66.0	66.0	70	N	-	-	45.2	Y	N	N
N5406	28	92.1	D3-1b	-	21.3	0.0	52.5	54.5	65.3	0.0	0.0	65.9	65.9	70	N	-	-	44.6	Y	N	N
N5406	29	94.9	D3-1b	-	21.8	0.0	52.6	54.7	65.2	0.0	0.0	65.8	65.8	70	N	-	-	44.0	Y	N	N
N5406	30	97.7	D3-1b	-	22.2	0.0	52.8	54.8	65.1	0.0	0.0	65.7	65.7	70	N	-	-	43.5	Y	N	N
N5406	31	100.5	D3-1b	-	22.8	0.0	53.0	55.1	65.0	0.0	0.0	65.7	65.7	70	N	-	-	42.9	Y	N	N
N5406	32	103.3	D3-1b	-	23.4	0.0	53.3	55.4	64.9	0.0	0.0	65.7	65.7	70	N	-	-	42.3	Y	N	N
N5406	33	106.1	D3-1b	-	24.0	0.0	53.7	55.7	64.9	0.0	0.0	65.6	65.6	70	N	-	-	41.6	Y	N	N
N5409	1	16.5	D3-1b	-	50.6	0.0	0.0	0.0	65.2	0.0	0.0	65.2	65.3	70	N	-	-	14.7	Y	N	N
N5409	2	19.3	D3-1b	-	51.0	0.0	0.0	0.0	65.0	0.0	0.0	65.0	65.2	70	N	-	-	14.2	Y	N	N
N5409	3	22.1	D3-1b	-	51.2	0.0	0.0	0.0	64.8	0.0	0.0	64.8	65.0	70	N	-	-	13.8	Y	N	N
N5409	4	24.9	D3-1b	-	51.3	0.0	0.0	0.0	64.6	0.0	0.0	64.6	64.8	70	N	-	-	13.5	Y	N	N
N5409	5	27.7	D3-1b	-	51.4	0.0	0.0	0.0	64.4	0.0	0.0	64.4	64.6	70	N	-	-	13.2	Y	N	N
N5409	6	30.5	D3-1b	-	51.4	0.0	0.0	0.0	64.1	0.0	0.0	64.1	64.4	70	N	-	-	13.0	Y	N	N
N5409	7	33.3	D3-1b	-	51.4	0.0	0.0	0.0	63.9	0.0	0.0	63.9	64.1	70	N	-	-	12.7	Y	N	N
N5409	8	36.1	D3-1b	-	51.4	0.0	0.0	0.0	63.7	0.0	0.0	63.7	64.0	70	N	-	-	12.6	Y	N	N
N5409	9	38.9	D3-1b	-	51.4	0.0	0.0	0.0	63.5	0.0	0.0	63.5	63.7	70	N	-	-	12.3	Y	N	N
N5409	10	41.7	D3-1b	-	51.4	0.0	0.0	0.0	63.3	0.0	0.0	63.3	63.6	70	N	-	-	12.2	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT									Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							New Roads[2]												
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
							dB (A)												
N5409	11	44.5	D3-1b	-	51.3	0.0	0.0	0.0	63.1	0.0	0.0	63.1	63.4	70	N	-	-	12.1	Y	N	N
N5409	12	47.3	D3-1b	-	51.3	0.0	0.0	0.0	62.9	0.0	0.0	62.9	63.2	70	N	-	-	11.9	Y	N	N
N5409	13	50.1	D3-1b	-	51.3	0.0	0.0	0.0	62.8	0.0	0.0	62.8	63.1	70	N	-	-	11.8	Y	N	N
N5409	14	52.9	D3-1b	-	51.3	0.0	0.0	0.0	62.6	0.0	0.0	62.6	62.9	70	N	-	-	11.6	Y	N	N
N5409	15	55.7	D3-1b	-	51.2	0.0	0.0	0.0	62.5	0.0	0.0	62.5	62.8	70	N	-	-	11.6	Y	N	N
N5409	16	58.5	D3-1b	-	51.2	0.0	0.0	0.0	62.3	0.0	0.0	62.3	62.6	70	N	-	-	11.4	Y	N	N
N5409	17	61.3	D3-1b	-	51.1	0.0	0.0	0.0	62.1	0.0	0.0	62.1	62.5	70	N	-	-	11.4	Y	N	N
N5409	18	64.1	D3-1b	-	51.1	0.0	0.0	0.0	62.0	0.0	0.0	62.0	62.3	70	N	-	-	11.2	Y	N	N
N5409	19	66.9	D3-1b	-	51.1	0.0	0.0	0.0	61.8	0.0	0.0	61.8	62.2	70	N	-	-	11.1	Y	N	N
N5409	20	69.7	D3-1b	-	51.0	0.0	0.0	0.0	61.7	0.0	0.0	61.7	62.1	70	N	-	-	11.1	Y	N	N
N5409	21	72.5	D3-1b	-	51.0	0.0	0.0	0.0	61.6	0.0	0.0	61.6	61.9	70	N	-	-	10.9	Y	N	N
N5409	22	75.3	D3-1b	-	50.9	0.0	0.0	0.0	61.4	0.0	0.0	61.4	61.8	70	N	-	-	10.9	Y	N	N
N5409	23	78.1	D3-1b	-	50.9	0.0	0.0	0.0	61.3	0.0	0.0	61.3	61.7	70	N	-	-	10.8	Y	N	N
N5409	24	80.9	D3-1b	-	50.8	0.0	0.0	0.0	61.2	0.0	0.0	61.2	61.6	70	N	-	-	10.8	Y	N	N
N5409	25	83.7	D3-1b	-	50.8	0.0	0.0	0.0	61.0	0.0	0.0	61.0	61.4	70	N	-	-	10.6	Y	N	N
N5409	26	86.5	D3-1b	-	50.8	0.0	0.0	0.0	60.9	0.0	0.0	60.9	61.3	70	N	-	-	10.5	Y	N	N
N5409	27	89.3	D3-1b	-	50.7	0.0	0.0	0.0	60.8	0.0	0.0	60.8	61.2	70	N	-	-	10.5	Y	N	N
N5409	28	92.1	D3-1b	-	50.7	0.0	0.0	0.0	60.6	0.0	0.0	60.6	61.1	70	N	-	-	10.4	Y	N	N
N5409	29	94.9	D3-1b	-	50.6	0.0	0.0	0.0	60.5	0.0	0.0	60.5	61.0	70	N	-	-	10.4	Y	N	N
N5409	30	97.7	D3-1b	-	50.6	0.0	0.0	0.0	60.4	0.0	0.0	60.4	60.9	70	N	-	-	10.3	Y	N	N
N5409	31	100.5	D3-1b	-	50.5	0.0	0.0	0.0	60.3	0.0	0.0	60.3	60.7	70	N	-	-	10.2	Y	N	N
N5409	32	103.3	D3-1b	-	50.5	0.0	0.0	0.0	60.2	0.0	0.0	60.2	60.6	70	N	-	-	10.1	Y	N	N
R FLNBP1	1	15.5	Residental NSRs	70	66.5	63.1	62.2	28.9	0.0	36.4	0.0	62.2	69.1	70	N	-0.9	N	1.0	Y	N	N
R FLNBP1	2	18.5	Residental NSRs	70	66.5	63.1	62.9	29.2	0.0	37.1	0.0	62.9	69.3	70	N	-0.7	N	1.2	Y	N	N
R FLNBP1	3	21.5	Residental NSRs	70	66.5	63.1	63.6	29.5	0.0	37.9	0.0	63.6	69.5	70	N	-0.5	N	1.4	Y	N	N
R KLHSW	1	20.8	Assessed Residential NSRs in Liantang EIA	77.8	63.7	58.5	33.0	0.0	33.2	61.5	0.0	61.6	66.5	70	N	-11.3	N	1.7	Y	N	N
R KLHSW	2	23.8	Assessed Residential NSRs in Liantang EIA	77.9	64.7	59.3	33.4	0.0	33.3	61.8	0.0	61.9	67.3	70	N	-10.6	N	1.5	Y	N	N
R KT1	1	16.7	Assessed Residential NSRs in Liantang EIA	68.9	56.2	62.3	44.1	42.1	41.8	64.7	0.0	64.8	67.1	70	N	-1.8	N	3.8	Y	N	N
R KT2	1	18.4	Assessed Residential NSRs in Liantang EIA	75.9	65.8	58.9	37.0	33.3	34.4	65.6	0.0	65.6	69.1	70	N	-6.8	N	2.5	Y	N	N
R KT2	2	21.4	Assessed Residential NSRs in Liantang EIA	76	65.9	59.9	37.6	34.4	38.0	65.8	0.0	65.8	69.4	70	N	-6.6	N	2.5	Y	N	N
R KT3	1	18.3	Assessed Residential NSRs in Liantang EIA	71.5	62.9	62.0	42.5	37.7	40.0	66.9	0.0	67.0	69.3	70	N	-2.2	N	3.8	Y	N	N
R NWP1	1	23.3	Assessed Residential NSRs in Liantang EIA	67.6	63.0	58.2	0.0	0.0	0.0	55.4	0.0	55.4	64.8	70	N	-2.8	N	0.6	N	N	N
R NWP1	2	26.3	Assessed Residential NSRs in Liantang EIA	68.6	66.3	61.0	0.0	0.0	0.0	57.7	0.0	57.7	67.9	70	N	-0.7	N	0.5	N	N	N
R SR12	1	23.3	Assessed Residential NSRs in Fanling Highway EP	67.6	58.9	56.7	0.0	0.0	0.0	53.8	0.0	53.8	61.7	70	N	-5.9	N	0.8	N	N	N
R SR12	2	26.3	Assessed Residential NSRs in Fanling Highway EP	68.9	62.2	59.7	0.0	0.0	0.0	56.9	0.0	56.9	64.9	70	N	-4.0	N	0.8	N	N	N
R SR12	3	29.3	Assessed Residential NSRs in Fanling Highway EP	71.6	66.9	63.6	0.0	0.0	0.0	59.6	0.0	59.6	69.1	70	N	-2.5	N	0.5	N	N	N
R SR77	1	22.7	Assessed Residential NSRs in Fanling Highway EP	79.9	66.2	54.6	0.0	0.0	0.0	54.8	0.0	54.8	66.8	70	N	-13.1	N	0.3	N	N	N
R SR77	2	25.7	Assessed Residential NSRs in Fanling Highway EP	80.1	67.2	55.1	0.0	0.0	0.0	55.7	0.0	55.7	67.7	70	N	-12.4	N	0.2	N	N	N
R SR77	3	28.7	Assessed Residential NSRs in Fanling Highway EP	80.4	68.5	55.7	0.0	0.0	0.0	57.1	0.0	57.1	69.0	70	N	-11.4	N	0.3	N	N	N
R SR7N	1	21.3	Assessed Residential NSRs in Fanling Highway EP	74.6	59.7	66.4	59.2	39.2	52.9	64.5	0.0	65.9	69.6	70	N	-5.0	N	2.4	Y	N	N
R SR7N	2	24.3	Assessed Residential NSRs in Fanling Highway EP	74.8	59.9	66.6	59.7	39.5	52.9	64.6	0.0	66.0	69.8	70	N	-5.0	N	2.4	Y	N	N
R SR7N	3	27.3	Assessed Residential NSRs in Fanling Highway EP	75	60.2	66.8	60.3	39.9	52.9	64.6	0.0	66.2	70.0	70	N	-5.0	N	2.3	Y	N	N
R TH1	1	26.6	Assessed Residential NSRs in Liantang EIA	68	37.1	57.2	42.9	36.8	33.9	53.1	0.0	53.7	58.8	70	N	-9.2	N	1.6	Y	N	N
R TH1	2	29.6	Assessed Residential NSRs in Liantang EIA	72.2	40.7	60.7	46.3	39.1	37.4	55.7	0.0	56.3	62.1	70	N	-10.1	N	1.4	Y	N	N
R TH2	1	27.4	Assessed Residential NSRs in Liantang EIA	71.2	59.2	62.5	45.4	44.3	33.1	62.8	0.0	63.0	66.6	70	N	-4.6	N	2.4	Y	N	N
R TH2	2	30.4	Assessed Residential NSRs in Liantang EIA	72.1	59.5	63.5	46.6	45.2	34.9	63.3	0.0	63.4	67.3	70	N	-4.8	N	2.3	Y	N	N
R TH4	1	26.3	Assessed Residential NSRs in Liantang EIA	70.9	50.5	61.8	52.9	42.7	50.0	63.6	0.0	64.2	66.3	70	N	-4.6	N	4.2	Y	N	N
R TH4	2	29.3	Assessed Residential NSRs in Liantang EIA	71.4	51.5	62.8	53.4	43.7	50.0	64.3	0.0	64.8	67.1	70	N	-4.3	N	4.0	Y	N	N
R TH5	1	22.6	Assessed Residential NSRs in Liantang EIA	74.2	52.2	54.6	56.9	43.8	60.2	68.0	0.0	69.0	69.2	70	N	-5.0	N	12.6	Y	N	N
R TH5	2	25.6	Assessed Residential NSRs in Liantang EIA	74.5	54.7	55.3	57.4	44.9	60.1	68.6	0.0	69.5	69.8	70	N	-4.7	N	11.8	Y	N	N
R TH6	1	18.5	Assessed Residential NSRs in Liantang EIA	74.5	50.3	62.6	54.8	39.3	61.4	65.2	0.0	67.0	68.4	70	N	-6.1	N	5.6	Y	N	N
R TH6	2	21.5	Assessed Residential NSRs in Liantang EIA	74.7	50.4	62.8	55.3	39.9	61.4	65.4	0.0	67.1	68.6	70	N	-6.1	N	5.6	Y	N	N
R WHS1	1	22.4	Assessed Residential NSRs in Fanling Highway EP	78.4	37.2	41.8	58.7	59.9	45.8	65.2	0.0	67.0	67.1	70	N	-11.3	N	24.0	Y	N	N
R WHS1	2	25.4	Assessed Residential NSRs in Fanling Highway EP	81.9	38.3	43.2	59.3	61.2	48.0	66.6	0.0	68.3	68.3	70	N	-13.6	N	23.9	Y	N	N
R4001	1	10.3	Wing Ning Tsuen	60.9	54.1	0.0	52.4	34.0	0.0	0.0	0.0	52.4	56.4	70	N	-4.5	N	2.3	Y	N	N
R4001	2	13.3	Wing Ning Tsuen	61.6	55.2	0.0	53.4	35.1	0.0	0.0	0.0	53.5	57.4	70	N	-4.2	N	2.2	Y	N	N
R4001	3	16.3	Wing Ning Tsuen	62.2	56.0	0.0	54.9	36.4	0.0	0.0	0.0	55.0	58.5	70	N	-3.7	N	2.5	Y	N	N
R4002	1	10.3	Wing Ning Tsuen	62.2	57.8	0.0	52.4	33.4	6.6	0.0	0.0	52.5	58.9	70	N	-3.3	N	1.1	Y	N	N
R4002	2	13.3	Wing Ning Tsuen	63.1	59.0	0.0	53.3	34.5	6.7	0.0	0.0	53.4	60.0	70	N	-3.1	N	1.0	Y	N	N
R4002	3	16.3	Wing Ning Tsuen	63.6	59.8	0.0	54.3	35.9	6.7	0.0	0.0	54.4	60.9	70	N	-2.7	N	1.1	Y	N	N
R4003	1	10.3	Wing Ning Tsuen	62.1	58.1	0.0	52.8	32.7	10.7	0.0	0.0	52.9	59.2	70	N	-2.9	N	1.1	Y	N	N
R4003	2	13.3	Wing Ning Tsuen	62.9	59.2	0.0	53.7	33.9	10.7	0.0	0.0	53.7	60.3	70	N	-2.6	N	1.1	Y	N	N
R4003	3	16.3	Wing Ning Tsuen	63.5	59.9	0.0	54.6	35.2	10.9	0.0	0.0	54.6	61.1	70	N	-2.4	N	1.2	Y	N	N
R4021	1	8.1	Wing Ning Wai	61.6	53.1	0.0	55.0	26.6	12.2	0.0	0.0	55.0	57.1	70	N	-4.5	N	4.0	Y	N	N
R4021	2	11.1	Wing Ning Wai	62.5	54.7	0.0	56.1	29.2	12.2	0.0	0.0	56.1	58.5	70	N	-4.0	N	3.8	Y	N	N
R4021	3	14.1	Wing Ning Wai	63.4	56.0	0.0	57.2	31.6	12.2	0.0	0.0	57.2	59.6	70	N	-3.8	N	3.6	Y	N	N
R4022	1	8.1	Wing Ning Wai	63.2	52.9	0.0	53.9	0.0	12.2	0.0	0.0	53.9	56.4	70	N	-6.8	N	3.5	Y	N	N
R4022	2	11.1	Wing Ning Wai	64.1	53.7	0.0	56.3	0.0	12.3	0.0	0.0	56.3	58.2	70	N	-5.9	N	4.5	Y	N	N
R4022	3	14.1	Wing Ning Wai	65	54.6	0.0	58.9	0.0	12.3	0.0	0.0	58.9	60.3	70	N	-4.7	N	5.7	Y	N	N
R4023	1	8.1	Wing Ning Wai	65.2	61.1	0.0	55.1	10.6	13.4	0.0	0.0	55.1	62.1	70	N	-3.1	N	1.0	Y	N	N
R4023	2	11.1	Wing Ning Wai	66.3	62.0	0.0	57.6	10.8	13.5	0.0	0.0	57.6	63.4	70	N	-2.9	N	1.4	Y	N	N
R4023	3	14.1	Wing Ning Wai	67.2	62.9	0.0	60.2	10.8	13.5	0.0	0.0	60.2	64.8	70	N	-2.4	N	1.9	Y	N	N
R4024	1	8.1	Wing Ning Wai	65.4	61.3	0.0	56.3	12.8	13.8	0.0	0.0	56.3	62.5	70	N	-2.9	N	1.2	Y	N	N
R4024	2	11.1	Wing Ning Wai	66.5	62.1	0.0	58.9	12.8	13.8	0.0	0.0	58.9	63.8	70	N	-2.7	N	1.7	Y	N	N
R4024	3	14.1	Wing Ning Wai	67.6	63.1	0.0	61.6	13.2	13.8	0.0	0.0	61.6	65.4	70	N	-2.2	N	2.3	Y	N	N
R4025	1	8.1	Wing Ning Wai	65.8	62.8	0.0	57.4	12.4	13.8	0.0	0.0	57.4	63.9	70	N	-1.9	N	1.1	Y	N	N
R4025	2	11.1	Wing Ning Wai	67	63.6	0.0	59.7	12.4	13.8	0.0	0.0	59.7	65.1	70	N	-1.9	N	1.5	Y	N	N
R4025	3	14.1	Wing Ning Wai	68.1	64.6	0.0	62.1	13.5	13.8	0.0	0.0	62.1	66.6	70	N	-1.5	N	2.0	Y	N	N
R4026	1	8.1	Wing Ning Wai	67.4	66.1	0.0	57.7	9.6	14.0	0.0	0.0	57.7	66.7	70	N	-0.7	N	0.6	N	N	N
R4026	2	11.1	Wing Ning Wai	68.7	67.1	0.0	59.9	9.6	14.0	0.0	0.0	59.9	67.9	70	N	-0.8	N	0.8	N	N	N
R4026	3	14.1	Wing Ning Wai	69.6	68.0	0.0	61.7	10.7	14.0	0.0	0.0	61.7	68.9	70	N	-0.7	N	0.9	N	N	N
R4027	1	8.1	Wing Ning Wai	65.4	65.6	0.0	46.6	0.0	10.5	0.0	0.0	46.6	65.6	70	N	0.2	N	0.0	N	N	N
R4027	2	11.1	Wing Ning Wai	66.3	66.5	0.0	49.4	0.0	10.5	0.0	0.0	49.4	66.6	70	N	0.3	N	0.1	N	N	N
R4027	3	14.1	Wing Ning Wai	67.1	67.3	0.0	51.2	0.0	10.5	0.0	0.0	51.2	67.4	70	N	0.3	N	0.1	N	N	N
R4028	1	8.1	Wing Ning Wai	66.3	65.8	0.0	56.1	0.0	9.7	0.0	0.0	56.1	66.3	70	N	0.0	N	0.5	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT									Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							New Roads[2]												
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
							dB (A)												
R4028	2	11.1	Wing Ning Wai	67.5	66.7	0.0	57.7	0.0	9.7	0.0	0.0	57.8	67.2	70	N	-0.3	N	0.5	N	N	N
R4028	3	14.1	Wing Ning Wai	68.4	67.4	0.0	59.0	0.0	9.7	0.0	0.0	59.0	68.0	70	N	-0.4	N	0.6	N	N	N
R4029	1	8.1	Wing Ning Wai	64.5	64.8	0.0	38.3	0.0	0.0	0.0	0.0	38.3	64.8	70	N	0.3	N	0.0	N	N	N
R4029	2	11.1	Wing Ning Wai	65.3	65.6	0.0	40.0	0.0	0.0	0.0	0.0	40.0	65.6	70	N	0.3	N	0.0	N	N	N
R4029	3	14.1	Wing Ning Wai	66	66.4	0.0	42.0	0.0	0.0	0.0	0.0	42.0	66.4	70	N	0.4	N	0.0	N	N	N
R4041	1	10.1	San Uk Tsuen	70.2	70.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.8	70	Y	0.6	N	0.0	N	N	N
R4041	2	13.1	San Uk Tsuen	71.5	72.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.1	70	Y	0.6	N	0.0	N	N	N
R4041	3	16.1	San Uk Tsuen	72.4	72.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.9	70	Y	0.5	N	0.0	N	N	N
R4042	1	10.1	San Uk Tsuen	70.9	71.2	0.0	56.7	16.5	0.0	0.0	0.0	56.7	71.4	70	Y	0.5	N	0.2	N	N	N
R4042	2	13.1	San Uk Tsuen	72.3	72.3	0.0	57.4	17.3	0.0	0.0	0.0	57.4	72.5	70	Y	0.2	N	0.2	N	N	N
R4042	3	16.1	San Uk Tsuen	73	73.0	0.0	58.1	18.0	0.0	0.0	0.0	58.1	73.1	70	Y	0.1	N	0.1	N	N	N
R4043	1	10.1	San Uk Tsuen	69.8	70.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.4	70	N	0.6	N	0.0	N	N	N
R4043	2	13.1	San Uk Tsuen	71	71.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.4	70	Y	0.4	N	0.0	N	N	N
R4043	3	16.1	San Uk Tsuen	71.7	72.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.0	70	Y	0.3	N	0.0	N	N	N
R4044	1	10.1	San Uk Tsuen	70.1	69.9	0.0	62.9	22.8	22.5	0.0	0.0	62.9	70.7	70	Y	0.6	N	0.8	N	N	N
R4044	2	13.1	San Uk Tsuen	71.3	70.8	0.0	63.1	23.5	24.0	0.0	0.0	63.1	71.5	70	Y	0.2	N	0.7	N	N	N
R4044	3	16.1	San Uk Tsuen	72	71.4	0.0	63.2	24.0	25.8	0.0	0.0	63.2	72.0	70	Y	0.0	N	0.6	N	N	N
R4045	1	10.1	San Uk Tsuen	63.5	58.6	0.0	64.0	22.8	26.6	0.0	0.0	64.0	65.1	70	N	1.6	Y	6.5	Y	N	N
R4045	2	13.1	San Uk Tsuen	64.9	59.3	0.0	64.2	23.5	27.0	0.0	0.0	64.2	65.4	70	N	0.5	N	6.1	Y	N	N
R4045	3	16.1	San Uk Tsuen	65.7	59.8	0.0	64.4	24.1	27.4	0.0	0.0	64.4	65.7	70	N	0.0	N	5.9	Y	N	N
R4046	1	10.1	San Uk Tsuen	59.1	45.5	0.0	67.1	8.3	30.8	0.0	0.0	67.1	67.1	70	N	8.0	Y	21.6	Y	N	N
R4046	2	13.1	San Uk Tsuen	59.8	45.5	0.0	67.3	8.3	32.6	0.0	0.0	67.3	67.3	70	N	7.5	Y	21.8	Y	N	N
R4046	3	16.1	San Uk Tsuen	60.4	45.7	0.0	67.4	8.3	35.4	0.0	0.0	67.4	67.5	70	N	7.1	Y	21.8	Y	N	N
R4047	1	10.1	San Uk Tsuen	59.6	43.8	0.0	67.4	0.0	30.1	0.0	0.0	67.4	67.4	70	N	7.8	Y	23.6	Y	N	N
R4047	2	13.1	San Uk Tsuen	60.3	43.9	0.0	67.5	0.0	30.9	0.0	0.0	67.5	67.6	70	N	7.3	Y	23.7	Y	N	N
R4047	3	16.1	San Uk Tsuen	60.8	44.0	0.0	67.7	0.0	31.8	0.0	0.0	67.7	67.8	70	N	7.0	Y	23.8	Y	N	N
R4063	1	9.1	The Sisters of the Precious Blood Children Village	58.2	58.9	0.0	45.9	0.0	27.3	0.0	0.0	46.0	59.2	70	N	1.0	Y	0.3	N	N	N
R4063	2	12.1	The Sisters of the Precious Blood Children Village	61.6	62.3	0.0	50.9	0.0	28.5	0.0	0.0	51.0	62.6	70	N	1.0	Y	0.3	N	N	N
R4064	1	9.1	The Sisters of the Precious Blood Children Village	49	45.6	0.0	52.7	0.0	28.0	0.0	0.0	52.7	53.5	70	N	4.5	Y	7.9	Y	N	N
R4064	2	12.1	The Sisters of the Precious Blood Children Village	55.1	49.4	0.0	58.8	0.0	30.9	0.0	0.0	58.8	59.3	70	N	4.2	Y	9.9	Y	N	N
R4081	1	9.1	Kan Lung Tsuen	0	0.0	0.0	59.9	0.0	28.7	0.0	0.0	59.9	59.9	70	N	59.9	Y	56.9	Y	N	N
R4081	2	12.1	Kan Lung Tsuen	0	0.0	0.0	60.0	0.0	30.0	0.0	0.0	60.1	60.1	70	N	60.1	Y	57.1	Y	N	N
R4081	3	15.1	Kan Lung Tsuen	0	0.0	0.0	60.3	0.0	31.3	0.0	0.0	60.3	60.3	70	N	60.3	Y	57.3	Y	N	N
R4082	1	9.1	Kan Lung Tsuen	29	-10.1	0.0	61.5	0.0	39.4	0.0	0.0	61.6	61.6	70	N	32.6	Y	61.2	Y	N	N
R4082	2	12.1	Kan Lung Tsuen	30.6	-10.1	0.0	61.9	0.0	39.5	0.0	0.0	61.9	61.9	70	N	31.3	Y	61.5	Y	N	N
R4082	3	15.1	Kan Lung Tsuen	31.8	-10.1	0.0	62.3	0.0	39.7	0.0	0.0	62.4	62.4	70	N	30.6	Y	62.0	Y	N	N
R4083	1	9.1	Kan Lung Tsuen	39.9	13.8	0.0	61.4	0.0	39.9	0.0	0.0	61.4	61.4	70	N	21.5	Y	47.4	Y	N	N
R4083	2	12.1	Kan Lung Tsuen	41.2	13.8	0.0	61.7	0.0	40.0	0.0	0.0	61.7	61.7	70	N	20.5	Y	47.7	Y	N	N
R4083	3	15.1	Kan Lung Tsuen	42.5	13.8	0.0	62.2	0.0	40.1	0.0	0.0	62.3	62.3	70	N	19.8	Y	48.3	Y	N	N
R4101	1	9.8	Siu Hang Tsuen	0.0	0.0	0.0	54.8	0.0	43.2	0.0	0.0	55.1	55.1	70	N	55.1	Y	52.1	Y	N	N
R4101	2	12.8	Siu Hang Tsuen	0	0.0	0.0	55.1	0.0	43.2	0.0	0.0	55.4	55.4	70	N	55.4	Y	52.4	Y	N	N
R4101	3	15.8	Siu Hang Tsuen	0	0.0	0.0	55.4	0.0	43.2	0.0	0.0	55.6	55.6	70	N	55.6	Y	52.6	Y	N	N
R4102	1	9.8	Siu Hang Tsuen	24.5	0.0	0.0	55.2	0.0	43.8	0.0	0.0	55.5	55.5	70	N	31.0	Y	52.5	Y	N	N
R4102	2	12.8	Siu Hang Tsuen	25.2	0.0	0.0	55.5	0.0	43.8	0.0	0.0	55.8	55.8	70	N	30.6	Y	52.8	Y	N	N
R4102	3	15.8	Siu Hang Tsuen	25.9	0.0	0.0	55.9	0.0	43.8	0.0	0.0	56.1	56.1	70	N	30.2	Y	53.1	Y	N	N
R4103	1	9.8	Siu Hang Tsuen	24.7	0.0	0.0	55.1	0.0	42.9	0.0	0.0	55.4	55.4	70	N	30.7	Y	52.4	Y	N	N
R4103	2	12.8	Siu Hang Tsuen	25.4	0.0	0.0	55.4	0.0	42.9	0.0	0.0	55.7	55.7	70	N	30.3	Y	52.7	Y	N	N
R4103	3	15.8	Siu Hang Tsuen	26.2	0.0	0.0	55.8	0.0	42.9	0.0	0.0	56.0	56.0	70	N	29.8	Y	53.0	Y	N	N
R4121	1	10.5	Siu Hang San Tsuen	32.7	0.0	0.0	55.6	0.0	44.0	0.0	0.0	55.9	55.9	70	N	23.2	Y	52.9	Y	N	N
R4121	2	13.5	Siu Hang San Tsuen	33	0.0	0.0	56.1	0.0	44.0	0.0	0.0	56.4	56.4	70	N	23.4	Y	53.4	Y	N	N
R4121	3	16.5	Siu Hang San Tsuen	33.3	0.0	0.0	56.7	0.0	44.0	0.0	0.0	56.9	56.9	70	N	23.6	Y	53.9	Y	N	N
R4122	1	10.5	Siu Hang San Tsuen	0	0.0	0.0	54.0	0.0	39.7	0.0	0.0	54.2	54.2	70	N	54.2	Y	51.2	Y	N	N
R4122	2	13.5	Siu Hang San Tsuen	0	0.0	0.0	54.4	0.0	39.7	0.0	0.0	54.6	54.6	70	N	54.6	Y	51.6	Y	N	N
R4122	3	16.5	Siu Hang San Tsuen	0	0.0	0.0	55.0	0.0	39.7	0.0	0.0	55.1	55.1	70	N	55.1	Y	52.1	Y	N	N
R4123	1	10.5	Siu Hang San Tsuen	34.5	0.0	0.0	58.0	0.0	46.3	0.0	0.0	58.3	58.3	70	N	23.8	Y	55.3	Y	N	N
R4123	2	13.5	Siu Hang San Tsuen	35	0.0	0.0	58.6	0.0	46.3	0.0	0.0	58.9	58.9	70	N	23.9	Y	55.9	Y	N	N
R4123	3	16.5	Siu Hang San Tsuen	35.5	0.0	0.0	59.3	0.0	46.3	0.0	0.0	59.5	59.5	70	N	24.0	Y	56.5	Y	N	N
R4124	1	10.5	Siu Hang San Tsuen	34.4	0.0	0.0	56.0	0.0	42.3	0.0	0.0	56.2	56.2	70	N	21.8	Y	53.2	Y	N	N
R4124	2	13.5	Siu Hang San Tsuen	34.7	0.0	0.0	56.6	0.0	42.3	0.0	0.0	56.8	56.8	70	N	22.1	Y	53.8	Y	N	N
R4124	3	16.5	Siu Hang San Tsuen	34.8	0.0	0.0	57.3	0.0	42.4	0.0	0.0	57.4	57.4	70	N	22.6	Y	54.4	Y	N	N
R4141	1	7.4	Scattered Village Houses North of Proposed Potential Ecopark	53.2	41.1	0.0	53.5	65.0	44.9	0.0	0.0	65.4	65.4	70	N	12.2	Y	24.3	Y	N	N
R4141	2	10.4	Scattered Village Houses North of Proposed Potential Ecopark	53.2	41.7	0.0	54.1	65.1	46.0	0.0	0.0	65.4	65.5	70	N	12.3	Y	23.8	Y	N	N
R4142	1	7.4	Scattered Village Houses North of Proposed Potential Ecopark	52.2	42.3	0.0	0.0	66.0	53.0	0.0	0.0	66.2	66.2	70	N	14.0	Y	23.9	Y	N	N
R4142	2	10.4	Scattered Village Houses North of Proposed Potential Ecopark	52.2	42.5	0.0	0.0	66.0	53.0	0.0	0.0	66.2	66.2	70	N	14.0	Y	23.7	Y	N	N
R4143	1	7.4	Scattered Village Houses North of Proposed Potential Ecopark	52.8	44.9	0.0	0.0	65.5	53.1	0.0	0.0	65.8	65.8	70	N	13.0	Y	20.9	Y	N	N
R4143	2	10.4	Scattered Village Houses North of Proposed Potential Ecopark	52.8	45.1	0.0	0.0	65.5	53.1	0.0	0.0	65.8	65.8	70	N	13.0	Y	20.7	Y	N	N
R4151	1	6.0	Scattered Village Houses North of Proposed Potential Ecopark	54.1	33.9	0.0	55.9	62.4	49.5	0.0	0.0	63.5	63.5	70	N	9.4	Y	29.6	Y	N	N
R4151	2	9.0	Scattered Village Houses North of Proposed Potential Ecopark	54.1	35.8	0.0	57.1	62.6	50.6	0.0	0.0	63.9	63.9	70	N	9.8	Y	28.1	Y	N	N
R4152	1	6.0	Scattered Village Houses North of Proposed Potential Ecopark	49.9	33.4	0.0	59.5	52.5	44.6	0.0	0.0	60.4	60.4	70	N	10.5	Y	27.0	Y	N	N
R4152	2	9.0	Scattered Village Houses North of Proposed Potential Ecopark	49.9	35.8	0.0	60.8	53.9	47.6	0.0	0.0	61.8	61.8	70	N	11.9	Y	26.0	Y	N	N
R4153	1	6.0	Scattered Village Houses North of Proposed Potential Ecopark	50.7	33.8	0.0	59.0	49.3	43.1	0.0	0.0	59.5	59.6	70	N	8.9	Y	25.8	Y	N	N
R4153	2	9.0	Scattered Village Houses North of Proposed Potential Ecopark	50.8	36.9	0.0	60.3	50.1	45.3	0.0	0.0	60.8	60.8	70	N	10.0	Y	23.9	Y	N	N
R4154	1	6.0	Scattered Village Houses North of Proposed Potential Ecopark	42.6	19.0	0.0	56.2	48.1	35.4	0.0	0.0	56.9	56.9	70	N	14.3	Y	37.8	Y	N	N
R4154	2	9.0	Scattered Village Houses North of Proposed Potential Ecopark	42.7	19.2	0.0	58.0	48.4	37.4	0.0	0.0	58.5	58.5	70	N	15.8	Y	39.2	Y	N	N
R4421	1	26.5	Belair Monte	62.2	53.1	0.0	51.3	0.0	21.0	0.0	0.0	51.3	55.3	70	N	-6.9	N	2.2	Y	N	N
R4421	2	29.5	Belair Monte	65.7	56.3	0.0	55.8	0.0	21.0	0.0	0.0	55.8	59.0	70	N	-6.7	N	2.7	Y	N	N
R4421	3	32.5	Belair Monte	66.9	60.6	0.0	58.0	0.0	21.0	0.0	0.0	58.0	62.5	70	N	-4.4	N	1.9	Y	N	N
R4421	4	35.5	Belair Monte	67.9	64.2	0.0	59.0	0.0	21.0	0.0	0.0	59.0	65.4	70	N	-2.5	N	1.2	Y	N	N
R4421	5	38.5	Belair Monte	69	65.8	0.0	59.3	0.0	21.0	0.0	0.0	59.3	66.7	70	N	-2.3	N	0.9	N	N	N
R4421	6	41.5	Belair Monte	69.6	66.6	0.0	59.5	0.0	21.0	0.0	0.0	59.5	67.3	70	N	-2.3	N	0.7	N	N	N
R4421	7	44.5	Belair Monte	70.1	66.9	0.0	59.7	0.0	21.0	0.0	0.0	59.7	67.6	70	N	-2.5	N	0.7	N	N	N
R4421	8	47.5	Belair Monte	70.4	66.9	0.0	59.9	0.0	21.0	0.0	0.0	59.9	67.7	70	N	-2.7	N	0.8	N	N	N
R4421	9	50.5	Belair Monte	70.5	66.9	0.0	60.1	0.0	21.0	0.0	0.0	60.1	67.7	70	N	-2.8	N	0.8	N	N	N
R4421	10	53.5	Belair Monte	70.6	66.8	0.0	60.2	0.0	21.1	0.0	0.0	60.2	67.7	70	N	-2.9	N	0.9	N	N	N
R4421	11	56.5	Belair Monte	70.6	66.7	0.0	60.4	0.0	21.1	0.0	0.0	60.4	67.6	70	N	-3.0	N	0.9	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]								Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
R4421	12	59.5	Belair Monte	70.6	66.6	0.0	60.4	0.0	21.2	0.0	0.0	60.4	67.6	70	N	-3.0	N	1.0	Y	N	N
R4421	13	62.5	Belair Monte	70.5	66.6	0.0	60.5	0.0	21.3	0.0	0.0	60.5	67.5	70	N	-3.0	N	0.9	N	N	N
R4421	14	65.5	Belair Monte	70.4	66.4	0.0	60.6	0.0	21.5	0.0	0.0	60.6	67.4	70	N	-3.0	N	1.0	Y	N	N
R4421	15	68.5	Belair Monte	70.3	66.4	0.0	60.6	0.0	21.7	0.0	0.0	60.6	67.4	70	N	-2.9	N	1.0	Y	N	N
R4421	16	71.5	Belair Monte	70.2	66.3	0.0	60.7	0.0	22.0	0.0	0.0	60.7	67.3	70	N	-2.9	N	1.0	Y	N	N
R4421	17	74.5	Belair Monte	70.1	66.2	0.0	60.8	0.0	22.4	0.0	0.0	60.8	67.3	70	N	-2.8	N	1.1	Y	N	N
R4421	18	77.5	Belair Monte	70	66.2	0.0	60.9	0.0	22.9	0.0	0.0	60.9	67.4	70	N	-2.6	N	1.2	Y	N	N
R4421	19	80.5	Belair Monte	69.9	66.2	0.0	61.1	0.0	23.5	0.0	0.0	61.1	67.4	70	N	-2.5	N	1.2	Y	N	N
R4421	20	83.5	Belair Monte	69.8	66.2	0.0	61.5	0.0	24.2	0.0	0.0	61.5	67.4	70	N	-2.4	N	1.2	Y	N	N
R4421	21	86.5	Belair Monte	69.7	66.2	0.0	61.9	0.0	24.9	0.0	0.0	61.9	67.6	70	N	-2.1	N	1.4	Y	N	N
R4421	22	89.5	Belair Monte	69.6	66.3	0.0	62.2	0.0	25.7	0.0	0.0	62.2	67.7	70	N	-1.9	N	1.4	Y	N	N
R4421	23	92.5	Belair Monte	69.5	66.3	0.0	62.6	0.0	26.5	0.0	0.0	62.6	67.9	70	N	-1.6	N	1.6	Y	N	N
R4421	24	95.5	Belair Monte	69.4	66.3	0.0	62.9	0.0	27.4	0.0	0.0	62.9	67.9	70	N	-1.5	N	1.6	Y	N	N
R4421	25	98.5	Belair Monte	69.3	66.2	0.0	63.2	0.0	28.3	0.0	0.0	63.2	68.0	70	N	-1.3	N	1.8	Y	N	N
R4421	26	101.5	Belair Monte	69.2	66.1	0.0	63.4	0.0	29.3	0.0	0.0	63.4	68.0	70	N	-1.2	N	1.9	Y	N	N
R4421	27	104.5	Belair Monte	69.2	66.0	0.0	63.5	0.0	30.3	0.0	0.0	63.5	68.0	70	N	-1.2	N	2.0	Y	N	N
R4421	28	107.5	Belair Monte	69.1	65.9	0.0	63.6	0.0	31.4	0.0	0.0	63.6	67.9	70	N	-1.2	N	2.0	Y	N	N
R4421	29	110.5	Belair Monte	69	65.8	0.0	63.8	0.0	32.6	0.0	0.0	63.8	67.9	70	N	-1.1	N	2.1	Y	N	N
R4421	30	113.5	Belair Monte	68.9	65.8	0.0	63.8	0.0	33.9	0.0	0.0	63.8	67.9	70	N	-1.0	N	2.1	Y	N	N
R4422	1	26.5	Belair Monte	59.4	48.6	0.0	46.4	17.5	0.0	0.0	0.0	46.4	50.6	70	N	-8.8	N	2.0	Y	N	N
R4422	2	29.5	Belair Monte	63.5	50.4	0.0	49.3	17.5	0.0	0.0	0.0	49.3	52.9	70	N	-10.6	N	2.5	Y	N	N
R4422	3	32.5	Belair Monte	64.9	52.7	0.0	52.7	17.5	0.0	0.0	0.0	52.7	55.7	70	N	-9.2	N	3.0	Y	N	N
R4422	4	35.5	Belair Monte	65.9	55.2	0.0	56.5	17.5	0.0	0.0	0.0	56.5	58.9	70	N	-7.0	N	3.7	Y	N	N
R4422	5	38.5	Belair Monte	66.7	57.6	0.0	58.0	17.6	0.0	0.0	0.0	58.0	60.8	70	N	-5.9	N	3.2	Y	N	N
R4422	6	41.5	Belair Monte	67	59.4	0.0	58.5	17.6	0.0	0.0	0.0	58.5	62.0	70	N	-5.0	N	2.6	Y	N	N
R4422	7	44.5	Belair Monte	67.3	60.5	0.0	58.6	17.6	0.0	0.0	0.0	58.6	62.7	70	N	-4.6	N	2.2	Y	N	N
R4422	8	47.5	Belair Monte	67.5	61.2	0.0	58.6	17.6	0.0	0.0	0.0	58.6	63.1	70	N	-4.4	N	1.9	Y	N	N
R4422	9	50.5	Belair Monte	67.7	61.7	0.0	58.5	17.6	0.0	0.0	0.0	58.5	63.4	70	N	-4.3	N	1.7	Y	N	N
R4422	10	53.5	Belair Monte	67.8	62.1	0.0	58.5	17.5	0.0	0.0	0.0	58.5	63.6	70	N	-4.2	N	1.5	Y	N	N
R4422	11	56.5	Belair Monte	67.9	62.3	0.0	58.4	17.5	0.0	0.0	0.0	58.4	63.8	70	N	-4.1	N	1.5	Y	N	N
R4422	12	59.5	Belair Monte	68	62.5	0.0	58.4	17.5	0.0	0.0	0.0	58.4	63.9	70	N	-4.1	N	1.4	Y	N	N
R4422	13	62.5	Belair Monte	68.1	62.6	0.0	58.3	17.5	0.0	0.0	0.0	58.3	64.0	70	N	-4.1	N	1.4	Y	N	N
R4422	14	65.5	Belair Monte	68.3	62.9	0.0	58.3	17.7	0.0	0.0	0.0	58.3	64.2	70	N	-4.1	N	1.3	Y	N	N
R4422	15	68.5	Belair Monte	68.3	63.2	0.0	58.3	17.8	0.0	0.0	0.0	58.3	64.4	70	N	-3.9	N	1.2	Y	N	N
R4422	16	71.5	Belair Monte	68.4	63.3	0.0	58.2	17.9	0.0	0.0	0.0	58.2	64.5	70	N	-3.9	N	1.2	Y	N	N
R4422	17	74.5	Belair Monte	68.4	63.5	0.0	58.3	18.1	0.0	0.0	0.0	58.3	64.6	70	N	-3.8	N	1.1	Y	N	N
R4422	18	77.5	Belair Monte	68.4	63.7	0.0	58.2	18.3	0.0	0.0	0.0	58.2	64.8	70	N	-3.6	N	1.1	Y	N	N
R4422	19	80.5	Belair Monte	68.4	64.0	0.0	58.3	18.4	0.0	0.0	0.0	58.3	65.0	70	N	-3.4	N	1.0	Y	N	N
R4422	20	83.5	Belair Monte	68.4	64.2	0.0	58.4	18.6	0.0	0.0	0.0	58.4	65.2	70	N	-3.2	N	1.0	Y	N	N
R4422	21	86.5	Belair Monte	68.4	64.4	0.0	58.7	18.8	0.0	0.0	0.0	58.7	65.4	70	N	-3.0	N	1.0	Y	N	N
R4422	22	89.5	Belair Monte	68.4	64.6	0.0	59.2	19.0	0.0	0.0	0.0	59.2	65.7	70	N	-2.7	N	1.1	Y	N	N
R4422	23	92.5	Belair Monte	68.4	64.7	0.0	59.6	19.2	0.0	0.0	0.0	59.6	65.9	70	N	-2.5	N	1.2	Y	N	N
R4422	24	95.5	Belair Monte	68.4	64.7	0.0	60.0	19.5	0.0	0.0	0.0	60.0	66.0	70	N	-2.4	N	1.3	Y	N	N
R4422	25	98.5	Belair Monte	68.3	64.8	0.0	60.2	19.8	0.0	0.0	0.0	60.2	66.1	70	N	-2.2	N	1.3	Y	N	N
R4422	26	101.5	Belair Monte	68.3	64.8	0.0	60.6	20.0	0.0	0.0	0.0	60.6	66.2	70	N	-2.1	N	1.4	Y	N	N
R4422	27	104.5	Belair Monte	68.2	64.7	0.0	60.8	20.3	0.0	0.0	0.0	60.8	66.2	70	N	-2.0	N	1.5	Y	N	N
R4422	28	107.5	Belair Monte	68.2	64.7	0.0	61.1	20.6	0.0	0.0	0.0	61.1	66.3	70	N	-1.9	N	1.6	Y	N	N
R4422	29	110.5	Belair Monte	68.1	64.7	0.0	61.2	20.9	0.0	0.0	0.0	61.2	66.3	70	N	-1.8	N	1.6	Y	N	N
R4422	30	113.5	Belair Monte	68	64.6	0.0	61.4	21.2	0.0	0.0	0.0	61.4	66.3	70	N	-1.7	N	1.7	Y	N	N
R4423	1	26.5	Belair Monte	53	49.3	0.0	47.0	34.4	0.0	0.0	0.0	47.2	51.4	70	N	-1.6	N	2.1	Y	N	N
R4423	2	29.5	Belair Monte	55.8	51.2	0.0	48.1	37.7	0.0	0.0	0.0	48.4	53.0	70	N	-2.8	N	1.8	Y	N	N
R4423	3	32.5	Belair Monte	59.5	53.5	0.0	48.4	42.1	0.0	0.0	0.0	49.3	54.9	70	N	-4.6	N	1.4	Y	N	N
R4423	4	35.5	Belair Monte	62.7	56.2	0.0	48.7	44.6	0.0	0.0	0.0	50.2	57.2	70	N	-5.5	N	1.0	Y	N	N
R4423	5	38.5	Belair Monte	63.9	58.6	0.0	49.1	46.2	0.0	0.0	0.0	50.9	59.3	70	N	-4.6	N	0.7	N	N	N
R4423	6	41.5	Belair Monte	64.6	60.4	0.0	49.5	47.4	0.0	0.0	0.0	51.6	61.0	70	N	-3.6	N	0.6	N	N	N
R4423	7	44.5	Belair Monte	65.2	61.3	0.0	49.8	47.8	0.0	0.0	0.0	51.9	61.8	70	N	-3.4	N	0.5	N	N	N
R4423	8	47.5	Belair Monte	65.6	62.0	0.0	50.1	47.9	0.0	0.0	0.0	52.2	62.5	70	N	-3.1	N	0.5	N	N	N
R4423	9	50.5	Belair Monte	65.6	62.5	0.0	50.4	47.9	0.0	0.0	0.0	52.4	62.9	70	N	-2.7	N	0.4	N	N	N
R4423	10	53.5	Belair Monte	65.7	62.7	0.0	50.7	47.9	0.0	0.0	0.0	52.5	63.1	70	N	-2.6	N	0.4	N	N	N
R4423	11	56.5	Belair Monte	65.7	62.9	0.0	50.9	47.8	0.0	0.0	0.0	52.6	63.3	70	N	-2.4	N	0.4	N	N	N
R4423	12	59.5	Belair Monte	65.7	63.0	0.0	51.1	47.7	0.0	0.0	0.0	52.7	63.4	70	N	-2.3	N	0.4	N	N	N
R4423	13	62.5	Belair Monte	65.8	63.1	0.0	51.3	47.7	0.0	0.0	0.0	52.9	63.5	70	N	-2.3	N	0.4	N	N	N
R4423	14	65.5	Belair Monte	65.9	63.2	0.0	51.5	47.6	0.0	0.0	0.0	53.0	63.6	70	N	-2.3	N	0.4	N	N	N
R4423	15	68.5	Belair Monte	65.9	63.4	0.0	51.6	47.5	0.0	0.0	0.0	53.1	63.8	70	N	-2.1	N	0.4	N	N	N
R4423	16	71.5	Belair Monte	66	63.4	0.0	51.8	47.5	0.0	0.0	0.0	53.2	63.8	70	N	-2.2	N	0.4	N	N	N
R4423	17	74.5	Belair Monte	66	63.5	0.0	51.9	47.4	0.0	0.0	0.0	53.2	63.9	70	N	-2.1	N	0.4	N	N	N
R4423	18	77.5	Belair Monte	66	63.5	0.0	52.0	47.3	0.0	0.0	0.0	53.3	63.9	70	N	-2.1	N	0.4	N	N	N
R4423	19	80.5	Belair Monte	66	63.6	0.0	52.1	47.3	0.0	0.0	0.0	53.4	64.0	70	N	-2.0	N	0.4	N	N	N
R4423	20	83.5	Belair Monte	66	63.6	0.0	52.2	47.2	0.0	0.0	0.0	53.4	64.0	70	N	-2.0	N	0.4	N	N	N
R4423	21	86.5	Belair Monte	66	63.6	0.0	52.3	47.1	0.0	0.0	0.0	53.4	64.0	70	N	-2.0	N	0.4	N	N	N
R4423	22	89.5	Belair Monte	66.1	63.7	0.0	52.4	47.0	0.0	0.0	0.0	53.5	64.1	70	N	-2.0	N	0.4	N	N	N
R4423	23	92.5	Belair Monte	66.1	63.8	0.0	52.5	47.0	0.0	0.0	0.0	53.6	64.2	70	N	-1.9	N	0.4	N	N	N
R4423	24	95.5	Belair Monte	66	63.8	0.0	52.5	46.9	0.0	0.0	0.0	53.6	64.2	70	N	-1.8	N	0.4	N	N	N
R4423	25	98.5	Belair Monte	66	63.9	0.0	52.6	46.8	0.0	0.0	0.0	53.6	64.3	70	N	-1.7	N	0.4	N	N	N
R4423	26	101.5	Belair Monte	66	63.9	0.0	52.6	46.7	0.0	0.0	0.0	53.6	64.3	70	N	-1.7	N	0.4	N	N	N
R4423	27	104.5	Belair Monte	65.9	64.0	0.0	52.7	46.7	0.0	0.0	0.0	53.7	64.4	70	N	-1.5	N	0.4	N	N	N
R4423	28	107.5	Belair Monte	65.9	64.1	0.0	52.8	46.6	0.0	0.0	0.0	53.7	64.5	70	N	-1.4	N	0.4	N	N	N
R4423	29	110.5	Belair Monte	65.9	64.1	0.0	52.8	46.5	0.0	0.0	0.0	53.7	64.4	70	N	-1.5	N	0.3	N	N	N
R4423	30	113.5	Belair Monte	65.8	64.0	0.0	52.8	46.4	0.0	0.0	0.0	53.7	64.4	70	N	-1.4	N	0.4	N	N	N
R4424	1	26.5	Belair Monte	63.3	61.1	0.0	29.6	0.0	55.1	0.0	0.0	55.1	62.1	70	N	-1.2	N	1.0	Y	N	N
R4424	2	29.5	Belair Monte	69	67.6	0.0	29.9	0.0	58.3	0.0	0.0	58.3	68.1	70	N	-0.9	N	0.5	N	N	N
R4424	3	32.5	Belair Monte	71.1	70.0	0.0	30.1	0.0	58.2	0.0	0.0	58.2	70.3	70	N	-0.8	N	0.3	N	N	N
R4424	4	35.5	Belair Monte	71.3	70.2	0.0	30.4	0.0	58.0	0.0	0.0	58.0	70.4	70	N	-0.9	N	0.2	N	N	N
R4424	5	38.5	Belair Monte	71.3	70.0	0.0	30.7	0.0	57.8	0.0	0.0	57.8	70.3	70	N	-1.0	N	0.3	N	N	N
R4424	6	41.5	Belair Monte	71.1	69.9	0.0	31.0	0.0	57.6	0.0	0.0	57.6	70.1	70	N	-1.0	N	0.2	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
R4424	7	44.5	Belair Monte	71	69.7	0.0	31.4	0.0	57.4	0.0	0.0	57.4	70.0	70	N	-1.0	N	0.3	N	N	N
R4424	8	47.5	Belair Monte	70.8	69.5	0.0	32.0	0.0	57.3	0.0	0.0	57.3	69.8	70	N	-1.0	N	0.3	N	N	N
R4424	9	50.5	Belair Monte	70.7	69.4	0.0	32.5	0.0	57.1	0.0	0.0	57.1	69.6	70	N	-1.1	N	0.2	N	N	N
R4424	10	53.5	Belair Monte	70.5	69.2	0.0	32.8	0.0	56.9	0.0	0.0	56.9	69.5	70	N	-1.0	N	0.3	N	N	N
R4424	11	56.5	Belair Monte	70.4	69.0	0.0	33.6	0.0	56.8	0.0	0.0	56.8	69.3	70	N	-1.1	N	0.3	N	N	N
R4424	12	59.5	Belair Monte	70.2	68.9	0.0	34.2	0.0	56.6	0.0	0.0	56.6	69.1	70	N	-1.1	N	0.2	N	N	N
R4424	13	62.5	Belair Monte	70.1	68.7	0.0	34.8	0.0	56.4	0.0	0.0	56.5	69.0	70	N	-1.1	N	0.3	N	N	N
R4424	14	65.5	Belair Monte	70	68.6	0.0	35.1	0.0	56.3	0.0	0.0	56.3	68.8	70	N	-1.2	N	0.2	N	N	N
R4424	15	68.5	Belair Monte	69.8	68.5	0.0	35.6	0.0	56.2	0.0	0.0	56.2	68.7	70	N	-1.1	N	0.2	N	N	N
R4424	16	71.5	Belair Monte	69.7	68.3	0.0	35.9	0.0	56.0	0.0	0.0	56.1	68.5	70	N	-1.2	N	0.2	N	N	N
R4424	17	74.5	Belair Monte	69.6	68.1	0.0	36.3	0.0	55.9	0.0	0.0	55.9	68.4	70	N	-1.2	N	0.3	N	N	N
R4424	18	77.5	Belair Monte	69.4	68.0	0.0	36.5	0.0	55.7	0.0	0.0	55.8	68.3	70	N	-1.1	N	0.3	N	N	N
R4424	19	80.5	Belair Monte	69.3	67.9	0.0	36.7	0.0	55.6	0.0	0.0	55.7	68.1	70	N	-1.2	N	0.2	N	N	N
R4424	20	83.5	Belair Monte	69.1	67.7	0.0	36.9	0.0	55.5	0.0	0.0	55.6	68.0	70	N	-1.1	N	0.3	N	N	N
R4424	21	86.5	Belair Monte	69	67.6	0.0	37.1	0.0	55.4	0.0	0.0	55.4	67.9	70	N	-1.1	N	0.3	N	N	N
R4424	22	89.5	Belair Monte	68.9	67.5	0.0	37.3	0.0	55.2	0.0	0.0	55.3	67.7	70	N	-1.2	N	0.2	N	N	N
R4424	23	92.5	Belair Monte	68.8	67.4	0.0	37.5	0.0	55.1	0.0	0.0	55.2	67.6	70	N	-1.2	N	0.2	N	N	N
R4424	24	95.5	Belair Monte	68.7	67.2	0.0	37.8	0.0	55.0	0.0	0.0	55.1	67.5	70	N	-1.2	N	0.3	N	N	N
R4424	25	98.5	Belair Monte	68.6	67.1	0.0	37.9	0.0	54.9	0.0	0.0	55.0	67.4	70	N	-1.2	N	0.3	N	N	N
R4424	26	101.5	Belair Monte	68.5	67.0	0.0	38.2	0.0	54.8	0.0	0.0	54.9	67.3	70	N	-1.2	N	0.3	N	N	N
R4424	27	104.5	Belair Monte	68.4	66.9	0.0	38.5	0.0	54.7	0.0	0.0	54.8	67.2	70	N	-1.2	N	0.3	N	N	N
R4424	28	107.5	Belair Monte	68.3	66.8	0.0	38.8	0.0	54.6	0.0	0.0	54.7	67.1	70	N	-1.2	N	0.3	N	N	N
R4424	29	110.5	Belair Monte	68.2	66.7	0.0	39.1	0.0	54.5	0.0	0.0	54.7	67.0	70	N	-1.2	N	0.3	N	N	N
R4424	30	113.5	Belair Monte	68.1	66.6	0.0	39.4	0.0	54.5	0.0	0.0	54.6	66.9	70	N	-1.2	N	0.3	N	N	N
R4425	1	26.5	Belair Monte	63.2	60.1	0.0	33.2	0.0	56.0	0.0	0.0	56.1	61.5	70	N	-1.7	N	1.4	Y	N	N
R4425	2	29.5	Belair Monte	68.4	66.3	0.0	33.7	0.0	58.5	0.0	0.0	58.6	67.0	70	N	-1.4	N	0.7	N	N	N
R4425	3	32.5	Belair Monte	70.2	68.3	0.0	34.2	0.0	58.5	0.0	0.0	58.5	68.8	70	N	-1.4	N	0.5	N	N	N
R4425	4	35.5	Belair Monte	70.7	68.8	0.0	34.7	0.0	58.4	0.0	0.0	58.4	69.2	70	N	-1.5	N	0.4	N	N	N
R4425	5	38.5	Belair Monte	70.7	68.9	0.0	35.4	0.0	58.3	0.0	0.0	58.3	69.3	70	N	-1.4	N	0.4	N	N	N
R4425	6	41.5	Belair Monte	70.6	68.9	0.0	36.2	0.0	58.2	0.0	0.0	58.3	69.2	70	N	-1.4	N	0.3	N	N	N
R4425	7	44.5	Belair Monte	70.4	68.7	0.0	36.8	0.0	58.1	0.0	0.0	58.2	69.0	70	N	-1.4	N	0.3	N	N	N
R4425	8	47.5	Belair Monte	70.2	68.5	0.0	37.5	0.0	58.0	0.0	0.0	58.1	68.9	70	N	-1.3	N	0.4	N	N	N
R4425	9	50.5	Belair Monte	70.1	68.3	0.0	38.5	0.0	57.9	0.0	0.0	58.0	68.7	70	N	-1.4	N	0.4	N	N	N
R4425	10	53.5	Belair Monte	69.9	68.1	0.0	39.3	0.0	57.8	0.0	0.0	57.9	68.5	70	N	-1.4	N	0.4	N	N	N
R4425	11	56.5	Belair Monte	69.7	68.0	0.0	39.8	0.0	57.7	0.0	0.0	57.8	68.4	70	N	-1.3	N	0.4	N	N	N
R4425	12	59.5	Belair Monte	69.6	67.8	0.0	40.3	0.0	57.6	0.0	0.0	57.7	68.2	70	N	-1.4	N	0.4	N	N	N
R4425	13	62.5	Belair Monte	69.4	67.6	0.0	40.7	0.0	57.5	0.0	0.0	57.6	68.1	70	N	-1.3	N	0.5	N	N	N
R4425	14	65.5	Belair Monte	69.2	67.5	0.0	41.0	0.0	57.4	0.0	0.0	57.5	67.9	70	N	-1.3	N	0.4	N	N	N
R4425	15	68.5	Belair Monte	69.1	67.3	0.0	41.3	0.0	57.3	0.0	0.0	57.4	67.8	70	N	-1.3	N	0.5	N	N	N
R4425	16	71.5	Belair Monte	68.9	67.2	0.0	41.6	0.0	57.2	0.0	0.0	57.3	67.6	70	N	-1.3	N	0.4	N	N	N
R4425	17	74.5	Belair Monte	68.8	67.1	0.0	41.7	0.0	57.1	0.0	0.0	57.2	67.5	70	N	-1.3	N	0.4	N	N	N
R4425	18	77.5	Belair Monte	68.6	66.9	0.0	41.9	0.0	56.9	0.0	0.0	57.1	67.3	70	N	-1.3	N	0.4	N	N	N
R4425	19	80.5	Belair Monte	68.5	66.8	0.0	42.0	0.0	56.8	0.0	0.0	57.0	67.2	70	N	-1.3	N	0.4	N	N	N
R4425	20	83.5	Belair Monte	68.3	66.6	0.0	42.2	0.0	56.7	0.0	0.0	56.9	67.1	70	N	-1.2	N	0.5	N	N	N
R4425	21	86.5	Belair Monte	68.2	66.5	0.0	42.3	0.0	56.6	0.0	0.0	56.8	66.9	70	N	-1.3	N	0.4	N	N	N
R4425	22	89.5	Belair Monte	68.1	66.4	0.0	42.5	0.0	56.5	0.0	0.0	56.7	66.8	70	N	-1.3	N	0.4	N	N	N
R4425	23	92.5	Belair Monte	67.9	66.2	0.0	42.7	0.0	56.5	0.0	0.0	56.6	66.7	70	N	-1.2	N	0.5	N	N	N
R4425	24	95.5	Belair Monte	67.8	66.1	0.0	42.8	0.0	56.3	0.0	0.0	56.5	66.6	70	N	-1.2	N	0.5	N	N	N
R4425	25	98.5	Belair Monte	67.7	66.0	0.0	43.1	0.0	56.3	0.0	0.0	56.5	66.5	70	N	-1.2	N	0.5	N	N	N
R4425	26	101.5	Belair Monte	67.6	65.9	0.0	43.4	0.0	56.2	0.0	0.0	56.4	66.4	70	N	-1.2	N	0.5	N	N	N
R4425	27	104.5	Belair Monte	67.5	65.8	0.0	43.6	0.0	56.1	0.0	0.0	56.3	66.3	70	N	-1.2	N	0.5	N	N	N
R4425	28	107.5	Belair Monte	67.3	65.7	0.0	43.9	0.0	56.1	0.0	0.0	56.3	66.1	70	N	-1.2	N	0.4	N	N	N
R4425	29	110.5	Belair Monte	67.3	65.6	0.0	44.3	0.0	56.0	0.0	0.0	56.3	66.1	70	N	-1.2	N	0.5	N	N	N
R4425	30	113.5	Belair Monte	67.2	65.5	0.0	44.7	0.0	56.0	0.0	0.0	56.3	66.0	70	N	-1.2	N	0.5	N	N	N
R4426	1	26.5	Belair Monte	58.1	57.0	0.0	43.1	0.0	46.6	0.0	0.0	48.2	57.5	70	N	-0.6	N	0.5	N	N	N
R4426	2	29.5	Belair Monte	61.4	59.6	0.0	46.0	0.0	51.5	0.0	0.0	52.6	60.4	70	N	-1.0	N	0.8	N	N	N
R4426	3	32.5	Belair Monte	64.5	62.6	0.0	47.1	0.0	51.7	0.0	0.0	53.0	63.1	70	N	-1.4	N	0.5	N	N	N
R4426	4	35.5	Belair Monte	66.5	64.6	0.0	47.6	0.0	51.7	0.0	0.0	53.1	64.9	70	N	-1.6	N	0.3	N	N	N
R4426	5	38.5	Belair Monte	67.7	65.7	0.0	47.8	0.0	51.7	0.0	0.0	53.1	65.9	70	N	-1.8	N	0.2	N	N	N
R4426	6	41.5	Belair Monte	68.3	66.2	0.0	48.0	0.0	51.6	0.0	0.0	53.2	66.4	70	N	-1.9	N	0.2	N	N	N
R4426	7	44.5	Belair Monte	68.5	66.3	0.0	48.4	0.0	51.5	0.0	0.0	53.2	66.5	70	N	-2.0	N	0.2	N	N	N
R4426	8	47.5	Belair Monte	68.4	66.2	0.0	48.6	0.0	51.5	0.0	0.0	53.3	66.4	70	N	-2.0	N	0.2	N	N	N
R4426	9	50.5	Belair Monte	68.3	66.1	0.0	48.9	0.0	51.4	0.0	0.0	53.3	66.3	70	N	-2.0	N	0.2	N	N	N
R4426	10	53.5	Belair Monte	68.2	66.0	0.0	49.2	0.0	51.3	0.0	0.0	53.4	66.2	70	N	-2.0	N	0.2	N	N	N
R4426	11	56.5	Belair Monte	68.1	65.9	0.0	49.4	0.0	51.2	0.0	0.0	53.4	66.1	70	N	-2.0	N	0.2	N	N	N
R4426	12	59.5	Belair Monte	68	65.7	0.0	49.6	0.0	51.1	0.0	0.0	53.5	66.0	70	N	-2.0	N	0.3	N	N	N
R4426	13	62.5	Belair Monte	67.8	65.6	0.0	49.8	0.0	51.1	0.0	0.0	53.5	65.8	70	N	-2.0	N	0.2	N	N	N
R4426	14	65.5	Belair Monte	67.7	65.4	0.0	49.9	0.0	51.0	0.0	0.0	53.5	65.7	70	N	-2.0	N	0.3	N	N	N
R4426	15	68.5	Belair Monte	67.6	65.3	0.0	50.2	0.0	50.9	0.0	0.0	53.6	65.6	70	N	-2.0	N	0.3	N	N	N
R4426	16	71.5	Belair Monte	67.5	65.2	0.0	50.5	0.0	50.8	0.0	0.0	53.6	65.5	70	N	-2.0	N	0.3	N	N	N
R4426	17	74.5	Belair Monte	67.4	65.1	0.0	50.7	0.0	50.7	0.0	0.0	53.7	65.4	70	N	-2.0	N	0.3	N	N	N
R4426	18	77.5	Belair Monte	67.3	64.9	0.0	50.9	0.0	50.6	0.0	0.0	53.8	65.3	70	N	-2.0	N	0.4	N	N	N
R4426	19	80.5	Belair Monte	67.2	64.8	0.0	51.0	0.0	50.5	0.0	0.0	53.8	65.1	70	N	-2.1	N	0.3	N	N	N
R4426	20	83.5	Belair Monte	67	64.7	0.0	51.2	0.0	50.5	0.0	0.0	53.8	65.0	70	N	-2.0	N	0.3	N	N	N
R4426	21	86.5	Belair Monte	67	64.6	0.0	51.3	0.0	50.4	0.0	0.0	53.9	65.0	70	N	-2.0	N	0.4	N	N	N
R4426	22	89.5	Belair Monte	66.8	64.5	0.0	51.5	0.0	50.3	0.0	0.0	53.9	64.9	70	N	-1.9	N	0.4	N	N	N
R4426	23	92.5	Belair Monte	66.8	64.5	0.0	51.6	0.0	50.3	0.0	0.0	54.0	64.9	70	N	-1.9	N	0.4	N	N	N
R4426	24	95.5	Belair Monte	66.6	64.4	0.0	51.7	0.0	50.2	0.0	0.0	54.1	64.8	70	N	-1.8	N	0.4	N	N	N
R4426	25	98.5	Belair Monte	66.5	64.4	0.0	51.8	0.0	50.1	0.0	0.0	54.1	64.8	70	N	-1.7	N	0.4	N	N	N
R4426	26	101.5	Belair Monte	66.5	64.3	0.0	52.0	0.0	50.1	0.0	0.0	54.1	64.7	70	N	-1.8	N	0.4	N	N	N
R4426	27	104.5	Belair Monte	66.4	64.3	0.0	52.1	0.0	50.1	0.0	0.0	54.2	64.7	70	N	-1.7	N	0.4	N	N	N
R4426	28	107.5	Belair Monte	66.3	64.3	0.0	52.3	0.0	50.1	0.0	0.0	54.3	64.7	70	N	-1.6	N	0.4	N	N	N
R4426	29	110.5	Belair Monte	66.2	64.3	0.0	52.5	0.0	50.1	0.0	0.0	54.4	64.8	70	N	-1.4	N	0.5	N	N	N
R4426	30	113.5	Belair Monte	66.1	64.3	0.0	52.7	0.0	50.2	0.0	0.0	54.6	64.8	70	N	-1.3	N	0.5	N	N	N
R4427	1	26.5	Belair Monte	58.8	50.6	0.0	46.7	0.0	23.8	0.0	0.0	46.7	52.1	70	N	-6.7	N	1.5	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT													
							New Roads[2]								Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
R4427	2	29.5	Belair Monte	62.4	53.0	0.0	50.3	0.0	23.8	0.0	0.0	50.3	54.9	70	N	-7.5	N	1.9	Y	N	N
R4427	3	32.5	Belair Monte	63.9	56.0	0.0	51.9	0.0	23.8	0.0	0.0	51.9	57.4	70	N	-6.5	N	1.4	Y	N	N
R4427	4	35.5	Belair Monte	65.3	59.9	0.0	53.1	0.0	23.8	0.0	0.0	53.1	60.7	70	N	-4.6	N	0.8	N	N	N
R4427	5	38.5	Belair Monte	66.7	62.8	0.0	54.4	0.0	23.8	0.0	0.0	54.4	63.4	70	N	-3.3	N	0.6	N	N	N
R4427	6	41.5	Belair Monte	67.5	64.3	0.0	55.0	0.0	23.7	0.0	0.0	55.0	64.8	70	N	-2.7	N	0.5	N	N	N
R4427	7	44.5	Belair Monte	68.1	65.3	0.0	55.4	0.0	23.7	0.0	0.0	55.4	65.7	70	N	-2.4	N	0.4	N	N	N
R4427	8	47.5	Belair Monte	68.6	65.7	0.0	55.6	0.0	23.7	0.0	0.0	55.6	66.1	70	N	-2.5	N	0.4	N	N	N
R4427	9	50.5	Belair Monte	69	65.8	0.0	55.7	0.0	23.7	0.0	0.0	55.7	66.2	70	N	-2.8	N	0.4	N	N	N
R4427	10	53.5	Belair Monte	69.1	65.8	0.0	55.8	0.0	23.7	0.0	0.0	55.8	66.2	70	N	-2.9	N	0.4	N	N	N
R4427	11	56.5	Belair Monte	69.2	65.8	0.0	55.9	0.0	23.7	0.0	0.0	55.9	66.2	70	N	-3.0	N	0.4	N	N	N
R4427	12	59.5	Belair Monte	69.2	65.7	0.0	56.1	0.0	23.8	0.0	0.0	56.1	66.1	70	N	-3.1	N	0.4	N	N	N
R4427	13	62.5	Belair Monte	69.3	65.6	0.0	56.3	0.0	23.9	0.0	0.0	56.3	66.1	70	N	-3.2	N	0.5	N	N	N
R4427	14	65.5	Belair Monte	69.2	65.6	0.0	56.4	0.0	24.0	0.0	0.0	56.4	66.1	70	N	-3.1	N	0.5	N	N	N
R4427	15	68.5	Belair Monte	69.2	65.6	0.0	56.6	0.0	24.2	0.0	0.0	56.6	66.1	70	N	-3.1	N	0.5	N	N	N
R4427	16	71.5	Belair Monte	69.1	65.5	0.0	56.7	0.0	24.5	0.0	0.0	56.7	66.1	70	N	-3.0	N	0.6	N	N	N
R4427	17	74.5	Belair Monte	69	65.5	0.0	56.7	0.0	24.9	0.0	0.0	56.7	66.0	70	N	-3.0	N	0.5	N	N	N
R4427	18	77.5	Belair Monte	68.9	65.5	0.0	56.8	0.0	25.5	0.0	0.0	56.8	66.0	70	N	-2.9	N	0.5	N	N	N
R4427	19	80.5	Belair Monte	68.9	65.5	0.0	56.8	0.0	26.2	0.0	0.0	56.9	66.0	70	N	-2.9	N	0.5	N	N	N
R4427	20	83.5	Belair Monte	68.8	65.5	0.0	56.9	0.0	27.0	0.0	0.0	56.9	66.0	70	N	-2.8	N	0.5	N	N	N
R4427	21	86.5	Belair Monte	68.7	65.5	0.0	57.0	0.0	27.8	0.0	0.0	57.0	66.1	70	N	-2.6	N	0.6	N	N	N
R4427	22	89.5	Belair Monte	68.6	65.5	0.0	57.1	0.0	28.8	0.0	0.0	57.2	66.1	70	N	-2.5	N	0.6	N	N	N
R4427	23	92.5	Belair Monte	68.5	65.4	0.0	57.4	0.0	29.9	0.0	0.0	57.4	66.1	70	N	-2.4	N	0.7	N	N	N
R4427	24	95.5	Belair Monte	68.4	65.4	0.0	57.7	0.0	30.9	0.0	0.0	57.7	66.1	70	N	-2.3	N	0.7	N	N	N
R4427	25	98.5	Belair Monte	68.3	65.5	0.0	58.0	0.0	32.1	0.0	0.0	58.1	66.2	70	N	-2.1	N	0.7	N	N	N
R4427	26	101.5	Belair Monte	68.3	65.5	0.0	58.3	0.0	33.2	0.0	0.0	58.4	66.3	70	N	-2.0	N	0.8	N	N	N
R4427	27	104.5	Belair Monte	68.2	65.5	0.0	58.6	0.0	34.5	0.0	0.0	58.7	66.3	70	N	-1.9	N	0.8	N	N	N
R4427	28	107.5	Belair Monte	68.1	65.4	0.0	58.9	0.0	35.8	0.0	0.0	59.0	66.3	70	N	-1.8	N	0.9	N	N	N
R4427	29	110.5	Belair Monte	68	65.3	0.0	59.3	0.0	37.4	0.0	0.0	59.3	66.3	70	N	-1.7	N	1.0	Y	N	N
R4427	30	113.5	Belair Monte	67.9	65.3	0.0	59.6	0.0	39.5	0.0	0.0	59.6	66.3	70	N	-1.6	N	1.0	Y	N	N
R4431	1	26.4	Green Code	77.2	74.7	0.0	58.8	40.1	0.0	0.0	0.0	58.9	74.8	70	Y	-2.4	N	0.1	N	N	N
R4431	2	34.0	Green Code	78.3	76.1	0.0	61.4	41.1	0.0	0.0	0.0	61.5	76.2	70	Y	-2.1	N	0.1	N	N	N
R4431	3	37.1	Green Code	78.1	75.8	0.0	61.9	41.1	0.0	0.0	0.0	61.9	76.0	70	Y	-2.1	N	0.2	N	N	N
R4431	4	40.2	Green Code	77.7	75.5	0.0	62.4	41.3	0.0	0.0	0.0	62.4	75.7	70	Y	-2.0	N	0.2	N	N	N
R4431	5	43.3	Green Code	77.5	75.2	0.0	62.7	41.5	0.0	0.0	0.0	62.7	75.4	70	Y	-2.1	N	0.2	N	N	N
R4431	6	46.4	Green Code	77.2	74.9	0.0	63.0	41.7	0.0	0.0	0.0	63.0	75.2	70	Y	-2.0	N	0.3	N	N	N
R4431	7	49.5	Green Code	76.9	74.6	0.0	63.2	41.8	0.0	0.0	0.0	63.2	74.9	70	Y	-2.0	N	0.3	N	N	N
R4431	8	52.6	Green Code	76.7	74.4	0.0	63.3	41.9	0.0	0.0	0.0	63.3	74.7	70	Y	-2.0	N	0.3	N	N	N
R4431	9	55.7	Green Code	76.5	74.2	0.0	63.3	42.0	0.0	0.0	0.0	63.4	74.5	70	Y	-2.0	N	0.3	N	N	N
R4431	10	58.8	Green Code	76.2	73.9	0.0	63.4	42.1	0.0	0.0	0.0	63.4	74.3	70	Y	-1.9	N	0.4	N	N	N
R4431	11	61.9	Green Code	76	73.7	0.0	63.3	42.1	0.0	0.0	0.0	63.4	74.1	70	Y	-1.9	N	0.4	N	N	N
R4431	12	65.0	Green Code	75.7	73.6	0.0	63.3	42.1	0.0	0.0	0.0	63.3	74.0	70	Y	-1.7	N	0.4	N	N	N
R4431	13	68.1	Green Code	75.6	73.4	0.0	63.3	42.0	0.0	0.0	0.0	63.3	73.8	70	Y	-1.8	N	0.4	N	N	N
R4431	14	71.2	Green Code	75.4	73.1	0.0	63.2	42.1	0.0	0.0	0.0	63.2	73.6	70	Y	-1.8	N	0.5	N	N	N
R4431	15	74.3	Green Code	75.2	73.0	0.0	63.1	42.1	0.0	0.0	0.0	63.2	73.4	70	Y	-1.8	N	0.4	N	N	N
R4431	16	77.4	Green Code	75	72.8	0.0	63.1	42.1	0.0	0.0	0.0	63.1	73.2	70	Y	-1.8	N	0.4	N	N	N
R4431	17	80.5	Green Code	74.8	72.6	0.0	63.1	42.1	0.0	0.0	0.0	63.1	73.1	70	Y	-1.7	N	0.5	N	N	N
R4431	18	83.6	Green Code	74.7	72.5	0.0	63.1	42.1	0.0	0.0	0.0	63.1	72.9	70	Y	-1.8	N	0.4	N	N	N
R4431	19	86.7	Green Code	74.5	72.3	0.0	63.1	42.0	0.0	0.0	0.0	63.1	72.8	70	Y	-1.7	N	0.5	N	N	N
R4431	20	89.8	Green Code	74.3	72.1	0.0	63.2	42.1	0.0	0.0	0.0	63.2	72.7	70	Y	-1.6	N	0.6	N	N	N
R4431	21	92.9	Green Code	74.2	72.0	0.0	63.5	42.1	0.0	0.0	0.0	63.5	72.6	70	Y	-1.6	N	0.6	N	N	N
R4431	22	96.0	Green Code	74	71.8	0.0	63.6	42.1	0.0	0.0	0.0	63.7	72.4	70	Y	-1.6	N	0.6	N	N	N
R4431	23	99.1	Green Code	73.9	71.7	0.0	63.8	42.1	0.0	0.0	0.0	63.8	72.3	70	Y	-1.6	N	0.6	N	N	N
R4431	24	102.2	Green Code	73.7	71.5	0.0	63.9	42.0	0.0	0.0	0.0	64.0	72.2	70	Y	-1.5	N	0.7	N	N	N
R4431	25	105.3	Green Code	73.6	71.4	0.0	64.1	42.0	0.0	0.0	0.0	64.1	72.2	70	Y	-1.4	N	0.8	N	N	N
R4431	26	108.4	Green Code	73.4	71.2	0.0	64.2	42.0	0.0	0.0	0.0	64.3	72.0	70	Y	-1.4	N	0.8	N	N	N
R4431	27	111.5	Green Code	73.4	71.1	0.0	64.4	42.1	0.0	0.0	0.0	64.4	72.0	70	Y	-1.4	N	0.9	N	N	N
R4431	28	114.6	Green Code	73.3	71.0	0.0	64.4	42.0	0.0	0.0	0.0	64.5	71.9	70	Y	-1.4	N	0.9	N	N	N
R4431	29	117.7	Green Code	73.2	70.9	0.0	64.5	42.0	0.0	0.0	0.0	64.5	71.8	70	Y	-1.4	N	0.9	N	N	N
R4432	1	26.4	Green Code	77.5	75.6	0.0	54.0	45.5	0.0	0.0	0.0	54.5	75.6	70	Y	-1.9	N	0.0	N	N	N
R4432	2	34.0	Green Code	78.3	76.4	0.0	56.3	46.8	0.0	0.0	0.0	56.7	76.5	70	Y	-1.8	N	0.1	N	N	N
R4432	3	37.1	Green Code	78	76.1	0.0	56.9	47.0	0.0	0.0	0.0	57.3	76.2	70	Y	-1.8	N	0.1	N	N	N
R4432	4	40.2	Green Code	77.7	75.8	0.0	57.2	47.1	0.0	0.0	0.0	57.6	75.9	70	Y	-1.8	N	0.1	N	N	N
R4432	5	43.3	Green Code	77.4	75.5	0.0	57.4	47.2	0.0	0.0	0.0	57.8	75.6	70	Y	-1.8	N	0.1	N	N	N
R4432	6	46.4	Green Code	77.1	75.3	0.0	57.6	47.2	0.0	0.0	0.0	58.0	75.3	70	Y	-1.8	N	0.0	N	N	N
R4432	7	49.5	Green Code	76.9	75.0	0.0	57.7	47.2	0.0	0.0	0.0	58.1	75.1	70	Y	-1.8	N	0.1	N	N	N
R4432	8	52.6	Green Code	76.6	74.8	0.0	57.8	47.2	0.0	0.0	0.0	58.1	74.8	70	Y	-1.8	N	0.0	N	N	N
R4432	9	55.7	Green Code	76.4	74.5	0.0	57.9	47.1	0.0	0.0	0.0	58.3	74.6	70	Y	-1.8	N	0.1	N	N	N
R4432	10	58.8	Green Code	76.2	74.3	0.0	58.0	47.1	0.0	0.0	0.0	58.3	74.4	70	Y	-1.8	N	0.1	N	N	N
R4432	11	61.9	Green Code	75.9	74.1	0.0	58.1	47.1	0.0	0.0	0.0	58.4	74.2	70	Y	-1.7	N	0.1	N	N	N
R4432	12	65.0	Green Code	75.7	73.9	0.0	58.2	47.1	0.0	0.0	0.0	58.6	74.0	70	Y	-1.7	N	0.1	N	N	N
R4432	13	68.1	Green Code	75.5	73.6	0.0	58.4	47.0	0.0	0.0	0.0	58.7	73.8	70	Y	-1.7	N	0.2	N	N	N
R4432	14	71.2	Green Code	75.3	73.4	0.0	58.5	47.0	0.0	0.0	0.0	58.8	73.6	70	Y	-1.7	N	0.2	N	N	N
R4432	15	74.3	Green Code	75.1	73.2	0.0	58.6	47.0	0.0	0.0	0.0	58.9	73.4	70	Y	-1.7	N	0.2	N	N	N
R4432	16	77.4	Green Code	74.9	73.1	0.0	58.9	46.9	0.0	0.0	0.0	59.2	73.2	70	Y	-1.7	N	0.1	N	N	N
R4432	17	80.5	Green Code	74.7	72.9	0.0	59.2	46.9	0.0	0.0	0.0	59.5	73.1	70	Y	-1.6	N	0.2	N	N	N
R4432	18	83.6	Green Code	74.6	72.7	0.0	59.6	46.8	0.0	0.0	0.0	59.8	73.0	70	Y	-1.6	N	0.3	N	N	N
R4432	19	86.7	Green Code	74.5	72.6	0.0	60.0	46.8	0.0	0.0	0.0	60.2	72.8	70	Y	-1.7	N	0.2	N	N	N
R4432	20	89.8	Green Code	74.3	72.4	0.0	60.4	46.8	0.0	0.0	0.0	60.6	72.7	70	Y	-1.6	N	0.3	N	N	N
R4432	21	92.9	Green Code	74.2	72.3	0.0	60.8	46.7	0.0	0.0	0.0	61.0	72.6	70	Y	-1.6	N	0.3	N	N	N
R4432	22	96.0	Green Code	74	72.1	0.0	61.3	46.8	0.0	0.0	0.0	61.5	72.5	70	Y	-1.5	N	0.4	N	N	N
R4432	23	99.1	Green Code	73.9	72.0	0.0	61.8	46.7	0.0	0.0	0.0	61.9	72.4	70	Y	-1.5	N	0.4	N	N	N
R4432	24	102.2	Green Code	73.7	71.8	0.0	62.1	46.7	0.0	0.0	0.0	62.2	72.3	70	Y	-1.4	N	0.5	N	N	N
R4432	25	105.3	Green Code	73.6	71.7	0.0	62.3	46.7	0.0	0.0	0.0	62.5	72.2	70	Y	-1.4	N	0.5	N	N	N
R4432	26	108.4	Green Code	73.4	71.6	0.0	62.5	46.7	0.0	0.0	0.0	62.6	72.1	70	Y	-1.3	N	0.5	N	N	N
R4432	27	111.5	Green Code	73.3	71.4	0.0	62.6	46.8	0.0	0.0	0.0	62.7	72.0	70	Y	-1.3	N	0.6	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]												
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							dB (A)									C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
R4432	28	114.6	Green Code	73.2	71.3	0.0	62.7	46.8	0.0	0.0	0.0	62.8	71.9	70	Y	-1.3	N	0.6	N	N	N
R4432	29	117.7	Green Code	73.1	71.2	0.0	62.8	47.0	0.0	0.0	0.0	62.9	71.8	70	Y	-1.3	N	0.6	N	N	N
R4433	1	26.4	Green Code	77.8	76.0	0.0	54.2	49.9	0.0	0.0	0.0	55.6	76.1	70	Y	-1.7	N	0.1	N	N	N
R4433	2	34.0	Green Code	78.3	76.6	0.0	55.6	50.3	0.0	0.0	0.0	56.7	76.6	70	Y	-1.7	N	0.0	N	N	N
R4433	3	37.1	Green Code	78.1	76.2	0.0	56.0	50.3	0.0	0.0	0.0	57.0	76.3	70	Y	-1.8	N	0.1	N	N	N
R4433	4	40.2	Green Code	77.7	76.0	0.0	56.6	50.2	0.0	0.0	0.0	57.5	76.0	70	Y	-1.7	N	0.0	N	N	N
R4433	5	43.3	Green Code	77.5	75.7	0.0	57.1	50.2	0.0	0.0	0.0	57.9	75.7	70	Y	-1.8	N	0.0	N	N	N
R4433	6	46.4	Green Code	77.2	75.4	0.0	57.4	50.2	0.0	0.0	0.0	58.2	75.5	70	Y	-1.7	N	0.1	N	N	N
R4433	7	49.5	Green Code	76.9	75.1	0.0	57.6	50.1	0.0	0.0	0.0	58.3	75.2	70	Y	-1.7	N	0.1	N	N	N
R4433	8	52.6	Green Code	76.7	74.9	0.0	57.7	50.1	0.0	0.0	0.0	58.4	75.0	70	Y	-1.7	N	0.1	N	N	N
R4433	9	55.7	Green Code	76.5	74.6	0.0	57.9	50.0	0.0	0.0	0.0	58.5	74.8	70	Y	-1.7	N	0.2	N	N	N
R4433	10	58.8	Green Code	76.2	74.4	0.0	58.0	50.0	0.0	0.0	0.0	58.6	74.5	70	Y	-1.7	N	0.1	N	N	N
R4433	11	61.9	Green Code	76	74.2	0.0	58.1	49.9	0.0	0.0	0.0	58.7	74.3	70	Y	-1.7	N	0.1	N	N	N
R4433	12	65.0	Green Code	75.8	74.0	0.0	58.2	49.8	0.0	0.0	0.0	58.8	74.1	70	Y	-1.7	N	0.1	N	N	N
R4433	13	68.1	Green Code	75.6	73.8	0.0	58.3	49.8	0.0	0.0	0.0	58.9	73.9	70	Y	-1.7	N	0.1	N	N	N
R4433	14	71.2	Green Code	75.4	73.6	0.0	58.4	49.7	0.0	0.0	0.0	59.0	73.7	70	Y	-1.7	N	0.1	N	N	N
R4433	15	74.3	Green Code	75.2	73.4	0.0	58.6	49.7	0.0	0.0	0.0	59.1	73.5	70	Y	-1.7	N	0.1	N	N	N
R4433	16	77.4	Green Code	75	73.2	0.0	58.8	49.6	0.0	0.0	0.0	59.3	73.4	70	Y	-1.6	N	0.2	N	N	N
R4433	17	80.5	Green Code	74.8	73.1	0.0	59.0	49.5	0.0	0.0	0.0	59.5	73.3	70	Y	-1.5	N	0.2	N	N	N
R4433	18	83.6	Green Code	74.7	72.9	0.0	59.4	49.5	0.0	0.0	0.0	59.8	73.1	70	Y	-1.6	N	0.2	N	N	N
R4433	19	86.7	Green Code	74.5	72.7	0.0	59.6	49.4	0.0	0.0	0.0	60.0	72.9	70	Y	-1.6	N	0.2	N	N	N
R4433	20	89.8	Green Code	74.3	72.5	0.0	59.9	49.3	0.0	0.0	0.0	60.3	72.8	70	Y	-1.5	N	0.3	N	N	N
R4433	21	92.9	Green Code	74.2	72.4	0.0	60.2	49.3	0.0	0.0	0.0	60.5	72.7	70	Y	-1.5	N	0.3	N	N	N
R4433	22	96.0	Green Code	74	72.3	0.0	60.4	49.2	0.0	0.0	0.0	60.8	72.6	70	Y	-1.4	N	0.3	N	N	N
R4433	23	99.1	Green Code	73.9	72.1	0.0	60.8	49.1	0.0	0.0	0.0	61.1	72.5	70	Y	-1.4	N	0.4	N	N	N
R4433	24	102.2	Green Code	73.7	72.0	0.0	61.1	49.1	0.0	0.0	0.0	61.4	72.3	70	Y	-1.4	N	0.3	N	N	N
R4433	25	105.3	Green Code	73.6	71.9	0.0	61.5	49.1	0.0	0.0	0.0	61.8	72.3	70	Y	-1.3	N	0.4	N	N	N
R4433	26	108.4	Green Code	73.5	71.7	0.0	61.9	49.1	0.0	0.0	0.0	62.1	72.2	70	Y	-1.3	N	0.5	N	N	N
R4433	27	111.5	Green Code	73.4	71.6	0.0	62.1	49.1	0.0	0.0	0.0	62.3	72.1	70	Y	-1.3	N	0.5	N	N	N
R4433	28	114.6	Green Code	73.3	71.5	0.0	62.4	49.0	0.0	0.0	0.0	62.6	72.0	70	Y	-1.3	N	0.5	N	N	N
R4433	29	117.7	Green Code	73.2	71.4	0.0	62.6	48.9	0.0	0.0	0.0	62.7	71.9	70	Y	-1.3	N	0.5	N	N	N
R4541	1	10.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	65.8	52.2	0.0	63.4	44.7	0.7	0.0	0.0	63.4	63.8	70	N	-2.0	N	11.6	Y	N	N
R4541	2	13.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	66.9	54.9	0.0	66.5	49.7	0.7	0.0	0.0	66.6	66.9	70	N	0.0	N	12.0	Y	N	N
R4541	3	16.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	67.4	58.0	0.0	69.6	54.1	0.7	0.0	0.0	69.7	70.0	70	N	2.6	Y	12.0	Y	N	N
R4542	1	10.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	62.1	40.9	0.0	57.2	0.0	0.0	0.0	0.0	57.2	57.3	70	N	-4.8	N	16.4	Y	N	N
R4542	2	13.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	63.1	42.3	0.0	59.3	0.0	0.0	0.0	0.0	59.3	59.4	70	N	-3.7	N	17.1	Y	N	N
R4542	3	16.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	63.6	44.0	0.0	61.5	0.0	0.0	0.0	0.0	61.5	61.5	70	N	-2.1	N	17.5	Y	N	N
R4543	1	10.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	63	58.2	0.0	60.2	49.6	0.0	0.0	0.0	60.6	62.6	70	N	-0.4	N	4.4	Y	N	N
R4543	2	13.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	63.3	58.3	0.0	61.3	49.8	0.0	0.0	0.0	61.6	63.2	70	N	-0.1	N	4.9	Y	N	N
R4543	3	16.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	63.5	58.3	0.0	62.6	50.0	0.0	0.0	0.0	62.8	64.1	70	N	0.6	N	5.8	Y	N	N
R4544	1	10.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	52.2	50.9	0.0	57.5	0.0	0.0	0.0	0.0	57.5	58.4	70	N	6.2	Y	7.5	Y	N	N
R4544	2	13.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	52.3	50.9	0.0	58.5	0.0	0.0	0.0	0.0	58.5	59.2	70	N	6.9	Y	8.3	Y	N	N
R4544	3	16.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	52.3	50.9	0.0	59.5	0.0	0.0	0.0	0.0	59.5	60.0	70	N	7.7	Y	9.1	Y	N	N
R4551	1	10.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	51.1	47.6	0.0	59.5	0.0	0.0	0.0	0.0	59.5	59.7	70	N	8.6	Y	12.1	Y	N	N
R4551	2	13.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	51.1	47.6	0.0	61.2	0.0	0.0	0.0	0.0	61.2	61.4	70	N	10.3	Y	13.8	Y	N	N
R4551	3	16.4	Scattered Village Houses East of Ma Wat River and West of Wing Ning Wai	51.1	47.6	0.0	63.5	0.0	0.0	0.0	0.0	63.5	63.6	70	N	12.5	Y	16.0	Y	N	N
R4561	1	10.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	62.1	51.9	0.0	57.8	37.2	0.0	0.0	0.0	57.8	58.8	70	N	-3.3	N	6.9	Y	N	N
R4561	2	13.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	62.9	53.6	0.0	58.8	38.7	0.0	0.0	0.0	58.8	60.0	70	N	-2.9	N	6.4	Y	N	N
R4561	3	16.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	63.4	55.8	0.0	59.7	40.6	0.0	0.0	0.0	59.8	61.3	70	N	-2.1	N	5.5	Y	N	N
R4562	1	10.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	63	56.0	0.0	57.8	37.1	0.0	0.0	0.0	57.8	60.0	70	N	-3.0	N	4.0	Y	N	N
R4562	2	13.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	63.9	57.3	0.0	58.9	38.7	0.0	0.0	0.0	58.9	61.2	70	N	-2.7	N	3.9	Y	N	N
R4562	3	16.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	64.4	58.6	0.0	59.8	40.7	0.0	0.0	0.0	59.9	62.3	70	N	-2.1	N	3.7	Y	N	N
R4563	1	10.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	61.5	56.1	0.0	49.9	0.0	0.0	0.0	0.0	49.9	57.0	70	N	-4.5	N	0.9	N	N	N
R4563	2	13.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	62.2	57.0	0.0	51.8	0.0	0.0	0.0	0.0	51.8	58.1	70	N	-4.1	N	1.1	Y	N	N
R4563	3	16.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	62.7	57.7	0.0	53.5	0.0	0.0	0.0	0.0	53.5	59.1	70	N	-3.6	N	1.4	Y	N	N
R4564	1	10.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	61.6	56.3	0.0	52.3	32.2	0.0	0.0	0.0	52.3	57.8	70	N	-3.8	N	1.5	Y	N	N
R4564	2	13.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	62.4	57.2	0.0	53.7	33.7	0.0	0.0	0.0	53.8	58.9	70	N	-3.5	N	1.7	Y	N	N
R4564	3	16.4	Scattered Village Houses Between Wing Ning Wai and Ma Wat Tsuen	62.9	58.0	0.0	55.7	35.6	0.0	0.0	0.0	55.8	60.0	70	N	-2.9	N	2.0	Y	N	N
R4581	1	10.7	Ma Wat Tsuen	53.6	0.0	0.0	56.4	41.2	0.0	0.0	0.0	56.5	56.5	70	N	2.9	Y	53.5	Y	N	N
R4581	2	13.7	Ma Wat Tsuen	53.9	0.0	0.0	56.8	41.3	0.0	0.0	0.0	56.9	56.9	70	N	3.0	Y	53.9	Y	N	N
R4581	3	16.7	Ma Wat Tsuen	54.1	0.0	0.0	57.3	41.6	0.0	0.0	0.0	57.4	57.4	70	N	3.3	Y	54.4	Y	N	N
R4582	1	10.7	Ma Wat Tsuen	50.8	25.9	0.0	56.3	40.8	0.0	0.0	0.0	56.4	56.4	70	N	5.6	Y	30.5	Y	N	N
R4582	2	13.7	Ma Wat Tsuen	54.1	27.1	0.0	57.2	41.1	0.0	0.0	0.0	57.3	57.3	70	N	3.2	Y	30.2	Y	N	N
R4582	3	16.7	Ma Wat Tsuen	55.1	28.0	0.0	57.8	41.4	0.0	0.0	0.0	57.9	57.9	70	N	2.8	Y	29.9	Y	N	N
R4583	1	10.7	Ma Wat Tsuen	49	24.3	0.0	52.1	30.0	0.0	0.0	0.0	52.1	52.1	70	N	3.1	Y	27.8	Y	N	N
R4583	2	13.7	Ma Wat Tsuen	50.4	25.1	0.0	52.9	31.6	0.0	0.0	0.0	52.9	52.9	70	N	2.5	Y	27.8	Y	N	N
R4583	3	16.7	Ma Wat Tsuen	51.7	25.9	0.0	53.8	33.5	0.0	0.0	0.0	53.8	53.8	70	N	2.1	Y	27.9	Y	N	N
R4584	1	10.7	Ma Wat Tsuen	42.1	23.8	0.0	50.3	32.9	0.0	0.0	0.0	50.3	50.4	70	N	8.3	Y	26.6	Y	N	N
R4584	2	13.7	Ma Wat Tsuen	44	24.5	0.0	51.0	34.9	0.0	0.0	0.0	51.1	51.1	70	N	7.1	Y	26.6	Y	N	N
R4584	3	16.7	Ma Wat Tsuen	46.1	25.2	0.0	51.7	37.2	0.0	0.0	0.0	51.9	51.9	70	N	5.8	Y	26.7	Y	N	N
R4601	1	14.0	Scattered Village Houses at Ma Wat Wai	50.5	26.4	0.0	57.4	41.6	0.0	0.0	0.0	57.5	57.5	70	N	7.0	Y	31.1	Y	N	N
R4601	2	17.0	Scattered Village Houses at Ma Wat Wai	50.8	27.5	0.0	57.8	41.8	0.0	0.0	0.0	57.9	57.9	70	N	7.1	Y	30.4	Y	N	N
R4601	3	20.0	Scattered Village Houses at Ma Wat Wai	51	28.7	0.0	58.3	42.1	0.0	0.0	0.0	58.4	58.4	70	N	7.4	Y	29.7	Y	N	N
R4602	1	14.0	Scattered Village Houses at Ma Wat Wai	54.2	26.9	0.0	58.7	42.5	0.0	0.0	0.0	58.8	58.9	70	N	4.7	Y	32.0	Y	N	N
R4602	2	17.0	Scattered Village Houses at Ma Wat Wai	54.4	28.2	0.0	59.3	42.9	0.0	0.0	0.0	59.4	59.4	70	N	5.0	Y	31.2	Y	N	N
R4602	3	20.0	Scattered Village Houses at Ma Wat Wai	54.6	29.6	0.0	59.8	43.3	0.0	0.0	0.0	59.9	59.9	70	N	5.3	Y	30.3	Y	N	N
R4603	1	14.0	Scattered Village Houses at Ma Wat Wai	52.5	26.4	0.0	58.0	43.4	0.0	0.0	0.0	58.1	58.1	70	N	5.6	Y	31.7	Y	N	N
R4603	2	17.0	Scattered Village Houses at Ma Wat Wai	52.8	27.7	0.0	58.6	43.7	0.0	0.0	0.0	58.7	58.7	70	N	5.9	Y	31.0	Y	N	N
R4603	3	20.0	Scattered Village Houses at Ma Wat Wai	53	29.2	0.0	59.2	44.0	0.0	0.0	0.0	59.3	59.3	70	N	6.3	Y	30.1	Y	N	N
R4604	1	14.0	Scattered Village Houses at Ma Wat Wai	54.1	26.7	0.0	55.7	41.9	0.0	0.0	0.0	55.9	55.9	70	N	1.8	Y	29.2	Y	N	N
R4604	2	17.0	Scattered Village Houses at Ma Wat Wai	54.3	27.9	0.0	56.2	42.1	0.0	0.0	0.0	56.4	56.4	70	N	2.1	Y	28.5	Y	N	N
R4604	3	20.0	Scattered Village Houses at Ma Wat Wai	54.5	29.2	0.0	56.8	42.3	0.0	0.0	0.0	56.9	56.9	70	N	2.4	Y	27.7	Y	N	N
R4625	1	11.3	Tsung Kyam Kindergarten and Tsung Kyam Church	53.6	51.6	0.0	57.8	38.4	0.0	0.0	0.0	57.9	58.8	65	N	5.2	Y	7.2	Y	N	N
R4625	2	14.3	Tsung Kyam Kindergarten and Tsung Kyam Church	53.6	51.6	0.0	58.5	38.4	0.0	0.0	0.0	58.5	59.3	65	N	5.7	Y	7.7	Y	N	N
R4626	1	11.3	Tsung Kyam Kindergarten and Tsung Kyam Church	54.5	51.2	0.0	58.7	42.8	0.0	0.0	0.0	58.8	59.5	65	N	5.0	Y	8.3	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
R4626	2	14.3	Tsung Kyam Kindergarten and Tsung Kyam Church	54.5	51.2	0.0	59.3	42.8	0.0	0.0	0.0	59.3	60.0	65	N	5.5	Y	8.8	Y	N	N
R4627	1	11.6	Tsung Kyam Kindergarten and Tsung Kyam Church	51.2	49.0	0.0	57.9	0.0	0.0	0.0	0.0	57.9	58.4	65	N	7.2	Y	9.4	Y	N	N
R4627	2	14.6	Tsung Kyam Kindergarten and Tsung Kyam Church	51.2	49.0	0.0	58.3	0.0	0.0	0.0	0.0	58.3	58.8	65	N	7.6	Y	9.8	Y	N	N
R4628	1	11.6	Tsung Kyam Kindergarten and Tsung Kyam Church	52.8	48.8	0.0	58.6	0.0	0.0	0.0	0.0	58.6	59.0	65	N	6.2	Y	10.2	Y	N	N
R4628	2	14.6	Tsung Kyam Kindergarten and Tsung Kyam Church	53	48.8	0.0	59.0	0.0	0.0	0.0	0.0	59.0	59.4	65	N	6.4	Y	10.6	Y	N	N
R4641	1	28.4	Shung Him Tong Tsuen	59.9	56.3	0.0	66.4	42.5	0.0	0.0	0.0	66.4	66.8	70	N	6.9	Y	10.5	Y	N	N
R4641	2	31.4	Shung Him Tong Tsuen	59.9	57.8	0.0	67.6	42.9	0.0	0.0	0.0	67.6	68.0	70	N	8.1	Y	10.2	Y	N	N
R4641	3	34.4	Shung Him Tong Tsuen	59.9	58.0	0.0	68.4	42.9	0.0	0.0	0.0	68.4	68.8	70	N	8.9	Y	10.8	Y	N	N
R4642	1	28.4	Shung Him Tong Tsuen	64.1	62.3	0.0	65.7	18.6	0.0	0.0	0.0	65.7	67.3	70	N	3.2	Y	5.0	Y	N	N
R4642	2	31.4	Shung Him Tong Tsuen	64.2	62.9	0.0	66.7	21.9	0.0	0.0	0.0	66.7	68.2	70	N	4.0	Y	5.3	Y	N	N
R4642	3	34.4	Shung Him Tong Tsuen	64.3	63.3	0.0	67.7	26.0	0.0	0.0	0.0	67.7	69.0	70	N	4.7	Y	5.7	Y	N	N
R4643	1	28.4	Shung Him Tong Tsuen	53.5	53.2	0.0	60.8	39.7	0.0	0.0	0.0	60.8	61.5	70	N	8.0	Y	8.3	Y	N	N
R4643	2	31.4	Shung Him Tong Tsuen	54.7	53.7	0.0	61.6	40.4	0.0	0.0	0.0	61.6	62.3	70	N	7.6	Y	8.6	Y	N	N
R4643	3	34.4	Shung Him Tong Tsuen	55.6	54.2	0.0	62.6	40.8	0.0	0.0	0.0	62.6	63.2	70	N	7.6	Y	9.0	Y	N	N
R4651	1	11.2	Shung Him Tong Tsuen	62.3	61.2	0.0	56.3	39.7	4.7	0.0	0.0	56.4	62.4	70	N	0.1	N	1.2	Y	N	N
R4651	2	14.2	Shung Him Tong Tsuen	62.3	61.2	0.0	57.7	39.7	4.7	0.0	0.0	57.7	62.8	70	N	0.5	N	1.6	Y	N	N
R4651	3	17.2	Shung Him Tong Tsuen	62.3	61.2	0.0	59.3	39.7	4.7	0.0	0.0	59.3	63.4	70	N	1.1	Y	2.2	Y	N	N
R4651	4	20.2	Shung Him Tong Tsuen	62.3	61.2	0.0	61.4	39.6	4.7	0.0	0.0	61.4	64.3	70	N	2.0	Y	3.1	Y	N	N
R4652	1	11.2	Shung Him Tong Tsuen	45.1	0.0	0.0	60.4	39.4	0.0	0.0	0.0	60.5	60.5	70	N	15.4	Y	57.5	Y	N	N
R4652	2	14.2	Shung Him Tong Tsuen	45.4	0.0	0.0	62.1	39.4	0.0	0.0	0.0	62.2	62.2	70	N	16.8	Y	59.2	Y	N	N
R4652	3	17.2	Shung Him Tong Tsuen	45.7	0.0	0.0	64.0	39.4	0.0	0.0	0.0	64.1	64.1	70	N	18.4	Y	61.1	Y	N	N
R4652	4	20.2	Shung Him Tong Tsuen	45.9	0.0	0.0	66.6	39.4	0.0	0.0	0.0	66.6	66.6	70	N	20.7	Y	63.6	Y	N	N
R4653	1	11.2	Shung Him Tong Tsuen	65.2	64.6	0.0	58.6	0.0	0.0	0.0	0.0	58.6	65.6	70	N	0.4	N	1.0	Y	N	N
R4653	2	14.2	Shung Him Tong Tsuen	65.2	64.6	0.0	60.1	0.0	0.0	0.0	0.0	60.1	65.9	70	N	0.7	N	1.3	Y	N	N
R4653	3	17.2	Shung Him Tong Tsuen	65.2	64.6	0.0	62.0	0.0	0.0	0.0	0.0	62.0	66.5	70	N	1.3	Y	1.9	Y	N	N
R4653	4	20.2	Shung Him Tong Tsuen	65.2	64.6	0.0	64.4	0.0	0.0	0.0	0.0	64.4	67.5	70	N	2.3	Y	2.9	Y	N	N
R4661	1	17.5	Scattered Village Houses in Tong Hang	68.3	66.1	55.2	64.0	0.0	0.0	30.9	0.0	64.0	68.4	70	N	0.1	N	2.0	Y	N	N
R4661	2	20.5	Scattered Village Houses in Tong Hang	68.3	66.1	55.3	65.6	0.0	0.0	31.0	0.0	65.6	69.1	70	N	0.8	N	2.7	Y	N	N
R4662	1	17.5	Scattered Village Houses in Tong Hang	65	63.8	0.0	61.8	0.0	0.0	0.0	0.0	61.8	65.9	70	N	0.9	N	2.1	Y	N	N
R4662	2	20.5	Scattered Village Houses in Tong Hang	65	63.8	0.0	63.0	0.0	0.0	0.0	0.0	63.0	66.4	70	N	1.4	Y	2.6	Y	N	N
R4704	1	16.3	Tong Hang Tung Chuen	71.6	61.0	66.7	59.2	35.4	0.0	41.8	0.0	59.2	68.3	70	N	-3.3	N	0.6	N	N	N
R4704	2	19.3	Tong Hang Tung Chuen	71.6	61.1	66.9	59.5	35.6	0.0	42.5	0.0	59.6	68.5	70	N	-3.1	N	0.6	N	N	N
R4704	3	22.3	Tong Hang Tung Chuen	71.7	61.2	67.1	59.9	35.8	0.0	43.3	0.0	60.1	68.7	70	N	-3.0	N	0.6	N	N	N
R4721	1	22.3	Dawning Views	64.2	60.0	62.0	50.7	0.0	0.0	0.0	0.0	50.7	64.3	70	N	0.1	N	0.2	N	N	N
R4721	2	25.3	Dawning Views	66.1	61.1	63.9	53.2	0.0	0.0	0.0	0.0	53.2	66.0	70	N	-0.1	N	0.3	N	N	N
R4721	3	28.3	Dawning Views	69.3	63.0	66.7	54.9	0.0	0.0	0.0	0.0	54.9	68.5	70	N	-0.8	N	0.3	N	N	N
R4721	4	31.3	Dawning Views	72.1	65.9	69.4	55.6	0.0	0.0	0.0	0.0	55.6	71.1	70	Y	-1.0	N	0.1	N	N	N
R4721	5	34.3	Dawning Views	73.7	67.7	71.0	56.0	0.0	0.0	0.0	0.0	56.0	72.7	70	Y	-1.0	N	0.0	N	N	N
R4721	6	37.3	Dawning Views	74.3	68.4	71.5	56.5	0.0	0.0	0.0	0.0	56.5	73.4	70	Y	-0.9	N	0.2	N	N	N
R4721	7	40.3	Dawning Views	74.5	68.8	71.9	56.8	0.0	0.0	0.0	0.0	56.8	73.7	70	Y	-0.8	N	0.1	N	N	N
R4721	8	43.3	Dawning Views	74.7	69.0	72.1	57.0	0.0	0.0	0.0	0.0	57.0	73.9	70	Y	-0.8	N	0.1	N	N	N
R4721	9	46.3	Dawning Views	74.8	69.2	72.3	57.0	0.0	0.0	0.0	0.0	57.0	74.1	70	Y	-0.7	N	0.1	N	N	N
R4721	10	49.3	Dawning Views	74.9	69.3	72.5	57.2	0.0	0.0	0.0	0.0	57.2	74.3	70	Y	-0.6	N	0.1	N	N	N
R4721	11	52.3	Dawning Views	75	69.5	72.6	57.3	0.0	0.0	0.0	0.0	57.3	74.4	70	Y	-0.6	N	0.1	N	N	N
R4721	12	55.3	Dawning Views	75	69.7	72.7	57.5	0.0	0.0	0.0	0.0	57.5	74.5	70	Y	-0.5	N	0.0	N	N	N
R4721	13	58.3	Dawning Views	75.1	69.9	72.7	57.8	0.0	0.0	0.0	0.0	57.8	74.6	70	Y	-0.5	N	0.1	N	N	N
R4721	14	61.3	Dawning Views	75.1	70.1	72.8	58.0	0.0	0.0	0.0	0.0	58.0	74.8	70	Y	-0.3	N	0.1	N	N	N
R4721	15	64.3	Dawning Views	75.2	70.4	72.8	58.3	0.0	0.0	0.0	0.0	58.3	74.9	70	Y	-0.3	N	0.1	N	N	N
R4721	16	67.3	Dawning Views	75.2	70.7	72.8	58.6	0.0	0.0	0.0	0.0	58.6	75.0	70	Y	-0.2	N	0.1	N	N	N
R4721	17	70.3	Dawning Views	75.3	71.0	72.8	58.9	0.0	0.0	0.0	0.0	58.9	75.1	70	Y	-0.2	N	0.1	N	N	N
R4721	18	73.3	Dawning Views	75.4	71.4	72.8	59.1	0.0	0.0	0.0	0.0	59.1	75.3	70	Y	-0.1	N	0.1	N	N	N
R4721	19	76.3	Dawning Views	75.5	71.9	72.8	59.3	0.0	0.0	0.0	0.0	59.3	75.5	70	Y	0.0	N	0.1	N	N	N
R4721	20	79.3	Dawning Views	75.6	72.4	72.8	59.5	0.0	0.0	0.0	0.0	59.5	75.7	70	Y	0.1	N	0.1	N	N	N
R4721	21	82.3	Dawning Views	75.7	72.7	72.8	59.7	0.0	0.0	0.0	0.0	59.7	75.9	70	Y	0.2	N	0.1	N	N	N
R4721	22	85.3	Dawning Views	75.9	73.2	72.8	59.9	0.0	0.0	0.0	0.0	59.9	76.1	70	Y	0.2	N	0.1	N	N	N
R4721	23	88.3	Dawning Views	76.1	73.6	72.8	60.0	0.0	0.0	0.0	0.0	60.0	76.3	70	Y	0.2	N	0.1	N	N	N
R4721	24	91.3	Dawning Views	76.3	73.9	72.9	60.2	0.0	0.0	0.0	0.0	60.2	76.5	70	Y	0.2	N	0.1	N	N	N
R4721	25	94.3	Dawning Views	76.4	74.2	72.9	60.3	0.0	0.0	0.0	0.0	60.3	76.7	70	Y	0.3	N	0.1	N	N	N
R4721	26	97.3	Dawning Views	76.5	74.4	72.9	60.4	0.0	0.0	0.0	0.0	60.4	76.8	70	Y	0.3	N	0.1	N	N	N
R4721	27	100.3	Dawning Views	76.6	74.5	73.0	60.5	0.0	0.0	0.0	0.0	60.5	76.9	70	Y	0.3	N	0.1	N	N	N
R4721	28	103.3	Dawning Views	76.7	74.6	73.1	60.6	0.0	0.0	0.0	0.0	60.6	77.0	70	Y	0.3	N	0.1	N	N	N
R4721	29	106.3	Dawning Views	76.7	74.6	73.1	60.7	0.0	0.0	0.0	0.0	60.7	77.0	70	Y	0.3	N	0.1	N	N	N
R4722	1	22.3	Dawning Views	64.2	60.7	60.8	50.2	32.8	0.0	40.1	0.0	50.7	63.9	70	N	-0.3	N	0.1	N	N	N
R4722	2	25.3	Dawning Views	66.8	62.4	63.6	53.0	36.0	0.0	42.1	0.0	53.5	66.3	70	N	-0.5	N	0.2	N	N	N
R4722	3	28.3	Dawning Views	71.1	65.9	67.5	55.1	39.8	0.0	43.8	0.0	55.5	69.9	70	N	-1.2	N	0.1	N	N	N
R4722	4	31.3	Dawning Views	74.2	69.2	70.6	55.7	41.8	0.0	44.3	0.0	56.2	73.0	70	Y	-1.2	N	0.0	N	N	N
R4722	5	34.3	Dawning Views	75.2	70.3	71.8	56.2	43.0	0.0	44.8	0.0	56.7	74.2	70	Y	-1.0	N	0.1	N	N	N
R4722	6	37.3	Dawning Views	75.5	70.7	72.2	56.6	43.8	0.0	45.4	0.0	57.2	74.6	70	Y	-0.9	N	0.1	N	N	N
R4722	7	40.3	Dawning Views	75.7	70.9	72.4	57.0	44.4	0.0	46.0	0.0	57.6	74.8	70	Y	-0.9	N	0.1	N	N	N
R4722	8	43.3	Dawning Views	75.8	70.9	72.6	57.2	45.0	0.0	46.7	0.0	57.8	74.9	70	Y	-0.9	N	0.1	N	N	N
R4722	9	46.3	Dawning Views	75.8	71.0	72.7	57.2	45.6	0.0	47.2	0.0	57.9	75.0	70	Y	-0.8	N	0.1	N	N	N
R4722	10	49.3	Dawning Views	75.9	71.0	72.9	57.4	46.0	0.0	47.5	0.0	58.1	75.2	70	Y	-0.7	N	0.1	N	N	N
R4722	11	52.3	Dawning Views	76	71.0	73.1	57.5	46.4	0.0	48.0	0.0	58.3	75.3	70	Y	-0.7	N	0.1	N	N	N
R4722	12	55.3	Dawning Views	76	71.0	73.2	57.7	46.8	0.0	48.4	0.0	58.5	75.3	70	Y	-0.7	N	0.1	N	N	N
R4722	13	58.3	Dawning Views	76	71.1	73.3	58.0	47.1	0.0	48.9	0.0	58.8	75.4	70	Y	-0.6	N	0.1	N	N	N
R4722	14	61.3	Dawning Views	76.1	71.2	73.4	58.3	47.3	0.0	49.3	0.0	59.1	75.5	70	Y	-0.6	N	0.1	N	N	N
R4722	15	64.3	Dawning Views	76.1	71.2	73.4	58.6	47.5	0.0	49.8	0.0	59.4	75.6	70	Y	-0.5	N	0.2	N	N	N
R4722	16	67.3	Dawning Views	76.1	71.3	73.5	58.8	47.7	0.0	50.2	0.0	59.7	75.6	70	Y	-0.5	N	0.1	N	N	N
R4722	17	70.3	Dawning Views	76.1	71.4	73.4	59.1	47.8	0.0	50.6	0.0	60.0	75.6	70	Y	-0.5	N	0.1	N	N	N
R4722	18	73.3	Dawning Views	76.1	71.4	73.5	59.4	47.9	0.0	50.9	0.0	60.2	75.7	70	Y	-0.4	N	0.1	N	N	N
R4722	19	76.3	Dawning Views	76.1	71.5	73.4	59.6	47.9	0.0	51.2	0.0	60.4	75.7	70	Y	-0.4	N	0.1	N	N	N
R4722	20	79.3	Dawning Views	76.1	71.6	73.4	59.8	47.9	0.0	51.5	0.0	60.6	75.7	70	Y	-0.4	N	0.1	N	N	N
R4722	21	82.3	Dawning Views	76.1	71.7	73.4	59.9	48.0	0.0	52.0	0.0	60.8	75.8	70	Y	-0.3	N	0.2	N	N	N
R4722	22	85.3	Dawning Views	76.1	71.7	73.4	60.1	48.0	0.0	52.3	0.0	61.0	75.8	70	Y	-0.3	N	0.2	N	N	N
R4722	23	88.3	Dawning Views	76.1	71.8	73.4	60.3	48.0	0.0	52.5	0.0	61.2	75.8	70	Y	-0.3	N	0.1	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
R4722	24	91.3	Dawning Views	76.1	71.8	73.4	60.4	48.0	0.0	52.9	0.0	61.3	75.8	70	Y	-0.3	N	0.1	N	N	N
R4722	25	94.3	Dawning Views	76.1	71.8	73.4	60.5	48.1	0.0	53.3	0.0	61.5	75.9	70	Y	-0.2	N	0.2	N	N	N
R4722	26	97.3	Dawning Views	76.1	71.9	73.4	60.6	48.1	0.0	53.7	0.0	61.6	75.9	70	Y	-0.2	N	0.2	N	N	N
R4722	27	100.3	Dawning Views	76.1	71.9	73.4	60.7	48.1	0.0	53.9	0.0	61.7	75.9	70	Y	-0.2	N	0.2	N	N	N
R4722	28	103.3	Dawning Views	76.1	71.9	73.5	60.8	48.2	0.0	54.1	0.0	61.8	75.9	70	Y	-0.2	N	0.1	N	N	N
R4722	29	106.3	Dawning Views	76.1	71.9	73.5	60.9	48.2	0.0	54.3	0.0	61.9	76.0	70	Y	-0.1	N	0.2	N	N	N
R4741	1	15.3	Wo Hop Shek San Tsuen, Regalia Villa	69.8	67.9	60.3	42.1	34.7	0.0	26.4	0.0	42.9	68.6	70	N	-1.2	N	0.0	N	N	N
R4741	2	18.3	Wo Hop Shek San Tsuen, Regalia Villa	69.9	67.9	60.8	44.8	37.0	0.0	27.8	0.0	45.6	68.7	70	N	-1.2	N	0.0	N	N	N
R4741	3	21.3	Wo Hop Shek San Tsuen, Regalia Villa	70.1	68.1	61.3	48.2	39.5	0.0	28.9	0.0	48.8	68.9	70	N	-1.2	N	0.0	N	N	N
R4742	1	15.3	Wo Hop Shek San Tsuen, Regalia Villa	58.3	55.8	53.1	45.1	37.1	0.0	35.9	0.0	46.2	58.0	70	N	-0.3	N	0.3	N	N	N
R4742	2	18.3	Wo Hop Shek San Tsuen, Regalia Villa	59.6	56.7	54.5	47.4	39.2	0.0	36.3	0.0	48.3	59.1	70	N	-0.5	N	0.4	N	N	N
R4742	3	21.3	Wo Hop Shek San Tsuen, Regalia Villa	61.6	58.4	56.3	50.2	41.8	0.0	36.8	0.0	51.0	60.9	70	N	-0.7	N	0.4	N	N	N
R4743	1	15.3	Wo Hop Shek San Tsuen, Regalia Villa	57.1	46.3	46.6	47.9	30.9	15.5	54.2	0.0	55.1	56.1	70	N	-1.0	N	6.6	Y	N	N
R4743	2	18.3	Wo Hop Shek San Tsuen, Regalia Villa	57.9	46.4	48.0	48.0	31.9	15.6	54.2	0.0	55.2	56.4	70	N	-1.5	N	6.1	Y	N	N
R4743	3	21.3	Wo Hop Shek San Tsuen, Regalia Villa	58.6	46.5	49.7	48.3	33.2	15.6	54.2	0.0	55.2	56.7	70	N	-1.9	N	5.3	Y	N	N
R4747	1	16.1	Wo Hop Shek San Tsuen, Regalia Villa	76	75.1	62.5	52.8	54.3	0.0	0.0	0.0	56.6	75.4	70	Y	-0.6	N	0.1	N	N	N
R4747	2	19.1	Wo Hop Shek San Tsuen, Regalia Villa	76	75.1	63.0	53.5	55.1	0.0	0.0	0.0	57.4	75.4	70	Y	-0.6	N	0.0	N	N	N
R4747	3	22.1	Wo Hop Shek San Tsuen, Regalia Villa	76	74.9	63.4	54.2	55.5	0.0	0.0	0.0	57.9	75.3	70	Y	-0.7	N	0.1	N	N	N
R4748	1	16.1	Wo Hop Shek San Tsuen, Regalia Villa	65.8	63.0	58.4	51.8	48.7	0.0	0.0	0.0	53.6	64.7	70	N	-1.1	N	0.4	N	N	N
R4748	2	19.1	Wo Hop Shek San Tsuen, Regalia Villa	76.3	74.5	63.2	54.6	59.3	0.0	0.0	0.0	60.5	75.0	70	Y	-1.3	N	0.2	N	N	N
R4748	3	22.1	Wo Hop Shek San Tsuen, Regalia Villa	76.3	74.4	63.8	55.4	59.2	0.0	0.0	0.0	60.7	75.0	70	Y	-1.3	N	0.2	N	N	N
R4749	1	16.1	Wo Hop Shek San Tsuen, Regalia Villa	64.1	58.8	58.9	50.6	46.6	17.0	41.9	0.0	52.5	62.3	70	N	-1.8	N	0.4	N	N	N
R4749	2	19.1	Wo Hop Shek San Tsuen, Regalia Villa	73.6	69.6	63.3	55.3	59.5	17.2	42.4	0.0	60.9	71.0	70	Y	-2.6	N	0.5	N	N	N
R4749	3	22.1	Wo Hop Shek San Tsuen, Regalia Villa	73.8	69.6	64.0	56.0	59.9	17.3	42.9	0.0	61.4	71.1	70	Y	-2.7	N	0.4	N	N	N
R4763	1	21.3	Scattered Village Houses along MTRC and Fanling Highway	74	48.8	57.3	57.1	43.8	59.8	68.1	0.0	69.0	69.3	70	N	-4.7	N	11.4	Y	N	N
R4763	2	24.3	Scattered Village Houses along MTRC and Fanling Highway	74.4	51.5	58.0	57.6	44.8	59.8	68.4	0.0	69.3	69.7	70	N	-4.7	N	10.8	Y	N	N
R4783	1	24.3	Scattered Village Houses East of Wo Hop Shek San Tsuen	76.3	32.8	64.8	58.5	65.8	43.7	62.4	0.0	68.0	69.7	70	N	-6.6	N	4.9	Y	N	N
R4783	2	27.3	Scattered Village Houses East of Wo Hop Shek San Tsuen	78.4	32.8	64.9	59.1	66.0	45.4	63.2	0.0	68.4	70.0	70	N	-8.4	N	5.1	Y	N	N
R4784	1	22.4	Scattered Village Houses East of Wo Hop Shek San Tsuen	74.5	32.8	62.6	58.0	64.1	41.7	62.2	0.0	66.9	68.3	70	N	-6.2	N	5.7	Y	N	N
R4784	2	25.4	Scattered Village Houses East of Wo Hop Shek San Tsuen	78.4	32.8	62.8	58.7	64.2	43.6	63.1	0.0	67.4	68.7	70	N	-9.7	N	5.9	Y	N	N
R4785	1	22.4	Scattered Village Houses East of Wo Hop Shek San Tsuen	74.1	35.1	38.3	58.2	56.9	45.1	63.5	0.0	65.3	65.4	70	N	-8.7	N	25.4	Y	N	N
R4785	2	25.4	Scattered Village Houses East of Wo Hop Shek San Tsuen	78.3	35.6	39.4	58.8	58.0	46.8	64.4	0.0	66.3	66.3	70	N	-12.0	N	25.4	Y	N	N
R5291	1	8.5	C2-7	-	0.0	0.0	59.8	63.4	52.3	0.0	0.0	65.2	65.2	65	N	-	-	62.2	Y	N	N
R5291	2	12.5	C2-7	-	0.0	0.0	59.5	63.4	52.3	0.0	0.0	65.1	65.1	65	N	-	-	62.1	Y	N	N
R5291	3	16.5	C2-7	-	0.0	0.0	59.2	63.4	52.4	0.0	0.0	65.1	65.1	65	N	-	-	62.1	Y	N	N
R5291	4	20.5	C2-7	-	0.0	0.0	58.8	63.4	52.4	0.0	0.0	64.9	64.9	65	N	-	-	61.9	Y	N	N
R5291	5	24.5	C2-7	-	0.0	0.0	58.4	63.4	52.6	0.0	0.0	64.8	64.8	65	N	-	-	61.8	Y	N	N
R5291	6	28.5	C2-7	-	0.0	0.0	58.0	63.3	52.7	0.0	0.0	64.7	64.7	65	N	-	-	61.7	Y	N	N
R5291	7	32.5	C2-7	-	0.0	0.0	57.7	63.3	52.7	0.0	0.0	64.6	64.6	65	N	-	-	61.6	Y	N	N
R5291	8	36.5	C2-7	-	0.0	0.0	57.3	63.2	52.8	0.0	0.0	64.5	64.5	65	N	-	-	61.5	Y	N	N
R5292	1	8.5	C2-7	-	45.4	0.0	0.0	0.0	57.8	0.0	0.0	57.8	58.1	65	N	-	-	12.7	Y	N	N
R5292	2	12.5	C2-7	-	48.5	0.0	0.0	0.0	57.9	0.0	0.0	57.9	58.4	65	N	-	-	9.9	Y	N	N
R5292	3	16.5	C2-7	-	53.4	0.0	0.0	0.0	58.1	0.0	0.0	58.1	59.4	65	N	-	-	6.0	Y	N	N
R5292	4	20.5	C2-7	-	57.1	0.0	0.0	0.0	58.6	0.0	0.0	58.6	60.9	65	N	-	-	3.8	Y	N	N
R5292	5	24.5	C2-7	-	58.1	0.0	0.0	0.0	58.8	0.0	0.0	58.8	61.5	65	N	-	-	3.4	Y	N	N
R5292	6	28.5	C2-7	-	58.3	0.0	0.0	0.0	59.1	0.0	0.0	59.1	61.7	65	N	-	-	3.4	Y	N	N
R5292	7	32.5	C2-7	-	58.3	0.0	0.0	0.0	59.2	0.0	0.0	59.2	61.8	65	N	-	-	3.5	Y	N	N
R5292	8	36.5	C2-7	-	58.3	0.0	0.0	0.0	59.2	0.0	0.0	59.2	61.8	65	N	-	-	3.5	Y	N	N
R5293	1	8.5	C2-7	-	55.5	0.0	50.1	29.3	60.1	0.0	0.0	60.5	61.7	65	N	-	-	6.2	Y	N	N
R5293	2	12.5	C2-7	-	55.8	0.0	52.8	30.3	60.1	0.0	0.0	60.8	62.0	65	N	-	-	6.2	Y	N	N
R5293	3	16.5	C2-7	-	56.8	0.0	54.5	31.7	60.3	0.0	0.0	61.3	62.6	65	N	-	-	5.8	Y	N	N
R5293	4	20.5	C2-7	-	58.4	0.0	56.0	33.3	60.6	0.0	0.0	61.9	63.5	65	N	-	-	5.1	Y	N	N
R5293	5	24.5	C2-7	-	58.7	0.0	56.7	35.0	60.8	0.0	0.0	62.3	63.9	65	N	-	-	5.2	Y	N	N
R5293	6	28.5	C2-7	-	58.8	0.0	56.8	36.9	61.0	0.0	0.0	62.4	64.0	65	N	-	-	5.2	Y	N	N
R5293	7	32.5	C2-7	-	58.9	0.0	56.7	39.0	61.0	0.0	0.0	62.4	64.0	65	N	-	-	5.1	Y	N	N
R5293	8	36.5	C2-7	-	58.9	0.0	56.6	41.4	61.0	0.0	0.0	62.3	64.0	65	N	-	-	5.1	Y	N	N
R5295	1	8.5	C2-9	-	46.4	0.0	0.0	54.6	57.2	0.0	0.0	59.1	59.3	65	N	-	-	12.9	Y	N	N
R5295	2	12.5	C2-9	-	47.8	0.0	0.0	54.6	57.3	0.0	0.0	59.2	59.5	65	N	-	-	11.7	Y	N	N
R5295	3	16.5	C2-9	-	56.2	0.0	0.0	54.6	57.4	0.0	0.0	59.2	61.0	65	N	-	-	4.8	Y	N	N
R5295	4	20.5	C2-9	-	58.0	0.0	0.0	54.6	57.5	0.0	0.0	59.3	61.7	65	N	-	-	3.7	Y	N	N
R5295	5	24.5	C2-9	-	57.9	0.0	0.0	54.6	57.7	0.0	0.0	59.5	61.8	65	N	-	-	3.9	Y	N	N
R5295	6	28.5	C2-9	-	57.9	0.0	0.0	54.6	58.1	0.0	0.0	59.7	61.9	65	N	-	-	4.0	Y	N	N
R5295	7	32.5	C2-9	-	57.9	0.0	0.0	54.6	58.9	0.0	0.0	60.3	62.3	65	N	-	-	4.4	Y	N	N
R5295	8	36.5	C2-9	-	57.8	0.0	0.0	54.7	59.6	0.0	0.0	60.8	62.6	65	N	-	-	4.8	Y	N	N
R5296	1	8.5	C2-9	-	40.6	0.0	0.0	0.0	55.5	0.0	0.0	55.5	55.7	65	N	-	-	15.1	Y	N	N
R5296	2	12.5	C2-9	-	46.5	0.0	0.0	0.0	57.1	0.0	0.0	57.1	57.4	65	N	-	-	10.9	Y	N	N
R5296	3	16.5	C2-9	-	59.6	0.0	0.0	0.0	62.7	0.0	0.0	62.7	64.4	65	N	-	-	4.8	Y	N	N
R5296	4	20.5	C2-9	-	60.7	0.0	0.0	0.0	67.7	0.0	0.0	67.7	68.5	65	Y	-	-	7.8	Y	Y	Y
R5296	5	24.5	C2-9	-	60.7	0.0	0.0	0.0	69.2	0.0	0.0	69.2	69.8	65	Y	-	-	9.1	Y	Y	Y
R5296	6	28.5	C2-9	-	60.7	0.0	0.0	0.0	69.4	0.0	0.0	69.4	70.0	65	Y	-	-	9.3	Y	Y	Y
R5296	7	32.5	C2-9	-	60.7	0.0	0.0	0.0	69.6	0.0	0.0	69.6	70.1	65	Y	-	-	9.4	Y	Y	Y
R5296	8	36.5	C2-9	-	60.7	0.0	0.0	0.0	69.5	0.0	0.0	69.5	70.1	65	Y	-	-	9.4	Y	Y	Y
R5297	1	8.5	C2-9	-	38.7	0.0	45.3	52.6	51.4	0.0	0.0	55.5	55.6	65	N	-	-	16.9	Y	N	N
R5297	2	12.5	C2-9	-	43.5	0.0	49.6	52.7	54.2	0.0	0.0	57.3	57.5	65	N	-	-	14.0	Y	N	N
R5297	3	16.5	C2-9	-	51.7	0.0	56.7	52.9	59.5	0.0	0.0	61.9	62.3	65	N	-	-	10.6	Y	N	N
R5297	4	20.5	C2-9	-	54.8	0.0	59.3	53.3	64.5	0.0	0.0	65.9	66.2	65	Y	-	-	11.4	Y	Y	Y
R5297	5	24.5	C2-9	-	55.1	0.0	60.1	54.1	67.2	0.0	0.0	68.1	68.3	65	Y	-	-	13.2	Y	Y	Y
R5297	6	28.5	C2-9	-	55.1	0.0	60.6	55.0	68.4	0.0	0.0	69.2	69.4	65	Y	-	-	14.3	Y	Y	Y
R5297	7	32.5	C2-9	-	55.2	0.0	60.9	55.4	68.8	0.0	0.0	69.6	69.7	65	Y	-	-	14.5	Y	Y	Y
R5297	8	36.5	C2-9	-	55.2	0.0	61.1	55.7	68.9	0.0	0.0	69.8	69.9	65	Y	-	-	14.7	Y	Y	Y
R5298	1	8.5	C2-9	-	40.9	0.0	44.8	54.3	50.9	0.0	0.0	56.3	56.4	65	N	-	-	15.5	Y	N	N
R5298	2	12.5	C2-9	-	43.9	0.0	49.8	54.4	53.9	0.0	0.0	57.9	58.1	65	N	-	-	14.2	Y	N	N
R5298	3	16.5	C2-9	-	48.3	0.0	59.2	54.7	57.9	0.0	0.0	62.4	62.6	65	N	-	-	14.3	Y	N	N
R5298	4	20.5	C2-9	-	51.9	0.0	62.0	55.6	63.9	0.0	0.0	66.4	66.6	65	Y	-	-	14.7	Y	Y	Y
R5298	5	24.5	C2-9	-	53.0	0.0	62.7	57.1	67.5	0.0	0.0	69.0	69.1	65	Y	-	-	16.1	Y	Y	Y

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
							dB (A)													
R5298	6	28.5	C2-9	-	53.2	0.0	63.0	57.9	68.0	0.0	0.0	69.5	69.6	65	Y	-	-	16.4	Y	Y	Y
R5298	7	32.5	C2-9	-	53.2	0.0	63.2	58.2	68.3	0.0	0.0	69.8	69.9	65	Y	-	-	16.7	Y	Y	Y
R5298	8	36.5	C2-9	-	53.3	0.0	63.2	58.3	68.5	0.0	0.0	70.0	70.1	65	Y	-	-	16.8	Y	Y	Y
R5321	1	13.5	D2-4	-	0.0	0.0	61.1	52.3	50.1	0.0	0.0	61.9	61.9	70	N	-	-	58.9	Y	N	N
R5321	2	16.5	D2-4	-	0.0	0.0	62.2	52.9	50.2	0.0	0.0	63.0	63.0	70	N	-	-	60.0	Y	N	N
R5321	3	19.5	D2-4	-	0.0	0.0	62.9	53.6	50.3	0.0	0.0	63.6	63.6	70	N	-	-	60.6	Y	N	N
R5321	4	22.5	D2-4	-	0.0	0.0	63.6	54.3	50.4	0.0	0.0	64.3	64.3	70	N	-	-	61.3	Y	N	N
R5321	5	25.5	D2-4	-	0.0	0.0	64.4	54.7	50.4	0.0	0.0	65.0	65.0	70	N	-	-	62.0	Y	N	N
R5321	6	28.5	D2-4	-	0.0	0.0	65.0	55.0	50.4	0.0	0.0	65.6	65.6	70	N	-	-	62.6	Y	N	N
R5321	7	31.5	D2-4	-	0.0	0.0	65.6	55.1	50.4	0.0	0.0	66.1	66.1	70	N	-	-	63.1	Y	N	N
R5321	8	34.5	D2-4	-	0.0	0.0	66.0	55.2	50.4	0.0	0.0	66.5	66.5	70	N	-	-	63.5	Y	N	N
R5321	9	37.5	D2-4	-	0.0	0.0	66.4	55.3	50.3	0.0	0.0	66.8	66.8	70	N	-	-	63.8	Y	N	N
R5321	10	40.5	D2-4	-	0.0	0.0	66.6	55.3	50.3	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
R5321	11	43.5	D2-4	-	0.0	0.0	66.8	55.3	50.3	0.0	0.0	67.2	67.2	70	N	-	-	64.2	Y	N	N
R5321	12	46.5	D2-4	-	0.0	0.0	67.0	55.3	50.3	0.0	0.0	67.4	67.4	70	N	-	-	64.4	Y	N	N
R5321	13	49.5	D2-4	-	0.0	0.0	67.1	55.3	50.2	0.0	0.0	67.4	67.4	70	N	-	-	64.4	Y	N	N
R5321	14	52.5	D2-4	-	0.0	0.0	67.1	55.4	50.2	0.0	0.0	67.5	67.5	70	N	-	-	64.5	Y	N	N
R5321	15	55.5	D2-4	-	0.0	0.0	67.2	55.3	50.2	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
R5321	16	58.5	D2-4	-	0.0	0.0	67.3	55.3	50.1	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
R5321	17	61.5	D2-4	-	0.0	0.0	67.3	55.3	50.1	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
R5321	18	64.5	D2-4	-	0.0	0.0	67.3	55.3	50.1	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
R5321	19	67.5	D2-4	-	0.0	0.0	67.3	55.3	50.0	0.0	0.0	67.7	67.7	70	N	-	-	64.7	Y	N	N
R5321	20	70.5	D2-4	-	0.0	0.0	67.3	55.3	50.0	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
R5322	1	13.5	D2-4	-	0.0	0.0	60.7	45.0	47.6	0.0	0.0	61.1	61.1	70	N	-	-	58.1	Y	N	N
R5322	2	16.5	D2-4	-	0.0	0.0	61.7	45.7	47.6	0.0	0.0	62.0	62.0	70	N	-	-	59.0	Y	N	N
R5322	3	19.5	D2-4	-	0.0	0.0	62.5	46.9	47.6	0.0	0.0	62.8	62.8	70	N	-	-	59.8	Y	N	N
R5322	4	22.5	D2-4	-	0.0	0.0	63.3	47.9	47.6	0.0	0.0	63.6	63.6	70	N	-	-	60.6	Y	N	N
R5322	5	25.5	D2-4	-	0.0	0.0	64.1	49.0	47.5	0.0	0.0	64.3	64.3	70	N	-	-	61.3	Y	N	N
R5322	6	28.5	D2-4	-	0.0	0.0	64.8	49.7	47.5	0.0	0.0	65.0	65.0	70	N	-	-	62.0	Y	N	N
R5322	7	31.5	D2-4	-	0.0	0.0	65.4	50.2	47.5	0.0	0.0	65.6	65.6	70	N	-	-	62.6	Y	N	N
R5322	8	34.5	D2-4	-	0.0	0.0	65.9	50.4	47.5	0.0	0.0	66.1	66.1	70	N	-	-	63.1	Y	N	N
R5322	9	37.5	D2-4	-	0.0	0.0	66.3	50.6	47.5	0.0	0.0	66.5	66.5	70	N	-	-	63.5	Y	N	N
R5322	10	40.5	D2-4	-	0.0	0.0	66.6	50.8	47.4	0.0	0.0	66.8	66.8	70	N	-	-	63.8	Y	N	N
R5322	11	43.5	D2-4	-	0.0	0.0	66.8	50.9	47.4	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
R5322	12	46.5	D2-4	-	0.0	0.0	67.0	50.9	47.4	0.0	0.0	67.2	67.2	70	N	-	-	64.2	Y	N	N
R5322	13	49.5	D2-4	-	0.0	0.0	67.1	50.9	47.4	0.0	0.0	67.3	67.3	70	N	-	-	64.3	Y	N	N
R5322	14	52.5	D2-4	-	0.0	0.0	67.2	51.0	47.3	0.0	0.0	67.4	67.4	70	N	-	-	64.4	Y	N	N
R5322	15	55.5	D2-4	-	0.0	0.0	67.3	50.9	47.3	0.0	0.0	67.5	67.5	70	N	-	-	64.5	Y	N	N
R5322	16	58.5	D2-4	-	0.0	0.0	67.4	51.0	47.3	0.0	0.0	67.5	67.5	70	N	-	-	64.5	Y	N	N
R5322	17	61.5	D2-4	-	0.0	0.0	67.5	51.0	47.3	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
R5322	18	64.5	D2-4	-	0.0	0.0	67.5	51.0	47.2	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
R5322	19	67.5	D2-4	-	0.0	0.0	67.5	51.0	47.2	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
R5322	20	70.5	D2-4	-	0.0	0.0	67.5	51.0	47.1	0.0	0.0	67.7	67.7	70	N	-	-	64.7	Y	N	N
R5323	1	13.5	D2-4	-	24.1	0.0	24.6	3.0	66.4	0.0	0.0	66.4	66.4	70	N	-	-	42.3	Y	N	N
R5323	2	16.5	D2-4	-	25.8	0.0	25.0	3.0	67.1	0.0	0.0	67.1	67.1	70	N	-	-	41.3	Y	N	N
R5323	3	19.5	D2-4	-	27.1	0.0	25.4	3.0	68.0	0.0	0.0	68.0	68.0	70	N	-	-	40.9	Y	N	N
R5323	4	22.5	D2-4	-	28.2	0.0	25.9	3.0	68.5	0.0	0.0	68.5	68.5	70	N	-	-	40.3	Y	N	N
R5323	5	25.5	D2-4	-	29.7	0.0	26.5	3.0	68.6	0.0	0.0	68.6	68.6	70	N	-	-	38.9	Y	N	N
R5323	6	28.5	D2-4	-	31.8	0.0	27.2	3.0	68.4	0.0	0.0	68.4	68.4	70	N	-	-	36.6	Y	N	N
R5323	7	31.5	D2-4	-	33.7	0.0	27.8	3.0	68.2	0.0	0.0	68.2	68.2	70	N	-	-	34.5	Y	N	N
R5323	8	34.5	D2-4	-	35.1	0.0	28.5	3.0	67.9	0.0	0.0	67.9	67.9	70	N	-	-	32.8	Y	N	N
R5323	9	37.5	D2-4	-	35.6	0.0	29.4	3.0	67.7	0.0	0.0	67.7	67.7	70	N	-	-	32.1	Y	N	N
R5323	10	40.5	D2-4	-	35.9	0.0	30.3	3.0	67.4	0.0	0.0	67.4	67.4	70	N	-	-	31.5	Y	N	N
R5323	11	43.5	D2-4	-	36.0	0.0	31.4	3.0	67.2	0.0	0.0	67.2	67.2	70	N	-	-	31.2	Y	N	N
R5323	12	46.5	D2-4	-	36.2	0.0	32.6	3.0	66.9	0.0	0.0	66.9	66.9	70	N	-	-	30.7	Y	N	N
R5323	13	49.5	D2-4	-	36.2	0.0	34.1	3.0	66.7	0.0	0.0	66.7	66.7	70	N	-	-	30.5	Y	N	N
R5323	14	52.5	D2-4	-	36.2	0.0	34.9	3.0	66.4	0.0	0.0	66.5	66.5	70	N	-	-	30.3	Y	N	N
R5323	15	55.5	D2-4	-	36.2	0.0	36.1	3.0	66.3	0.0	0.0	66.3	66.3	70	N	-	-	30.1	Y	N	N
R5323	16	58.5	D2-4	-	36.2	0.0	37.0	3.0	66.1	0.0	0.0	66.1	66.1	70	N	-	-	29.9	Y	N	N
R5323	17	61.5	D2-4	-	36.2	0.0	37.5	3.0	65.8	0.0	0.0	65.8	65.8	70	N	-	-	29.6	Y	N	N
R5323	18	64.5	D2-4	-	36.4	0.0	37.9	2.9	65.7	0.0	0.0	65.7	65.7	70	N	-	-	29.3	Y	N	N
R5323	19	67.5	D2-4	-	36.4	0.0	38.1	2.9	65.5	0.0	0.0	65.5	65.5	70	N	-	-	29.1	Y	N	N
R5323	20	70.5	D2-4	-	36.5	0.0	38.3	2.9	65.3	0.0	0.0	65.3	65.3	70	N	-	-	28.8	Y	N	N
R5324	1	13.5	D2-4	-	20.9	0.0	18.5	3.6	66.8	0.0	0.0	66.8	66.8	70	N	-	-	45.9	Y	N	N
R5324	2	16.5	D2-4	-	20.9	0.0	18.5	3.6	67.4	0.0	0.0	67.4	67.4	70	N	-	-	46.5	Y	N	N
R5324	3	19.5	D2-4	-	20.9	0.0	18.5	3.6	68.1	0.0	0.0	68.1	68.1	70	N	-	-	47.2	Y	N	N
R5324	4	22.5	D2-4	-	20.9	0.0	18.5	3.6	68.5	0.0	0.0	68.5	68.5	70	N	-	-	47.6	Y	N	N
R5324	5	25.5	D2-4	-	20.9	0.0	18.5	3.6	68.8	0.0	0.0	68.8	68.8	70	N	-	-	47.9	Y	N	N
R5324	6	28.5	D2-4	-	20.9	0.0	18.5	3.6	68.7	0.0	0.0	68.7	68.7	70	N	-	-	47.8	Y	N	N
R5324	7	31.5	D2-4	-	20.9	0.0	18.5	3.6	68.5	0.0	0.0	68.5	68.5	70	N	-	-	47.6	Y	N	N
R5324	8	34.5	D2-4	-	20.8	0.0	18.5	3.6	68.2	0.0	0.0	68.2	68.2	70	N	-	-	47.4	Y	N	N
R5324	9	37.5	D2-4	-	20.8	0.0	18.5	3.6	68.0	0.0	0.0	68.0	68.0	70	N	-	-	47.2	Y	N	N
R5324	10	40.5	D2-4	-	20.8	0.0	18.5	3.6	67.7	0.0	0.0	67.7	67.7	70	N	-	-	46.9	Y	N	N
R5324	11	43.5	D2-4	-	20.8	0.0	18.5	3.6	67.4	0.0	0.0	67.4	67.4	70	N	-	-	46.6	Y	N	N
R5324	12	46.5	D2-4	-	20.7	0.0	18.5	3.6	67.2	0.0	0.0	67.2	67.2	70	N	-	-	46.5	Y	N	N
R5324	13	49.5	D2-4	-	20.7	0.0	18.5	3.6	66.9	0.0	0.0	66.9	66.9	70	N	-	-	46.2	Y	N	N
R5324	14	52.5	D2-4	-	20.7	0.0	18.5	3.6	66.7	0.0	0.0	66.7	66.7	70	N	-	-	46.0	Y	N	N
R5324	15	55.5	D2-4	-	20.7	0.0	18.5	3.6	66.5	0.0	0.0	66.5	66.5	70	N	-	-	45.8	Y	N	N
R5324	16	58.5	D2-4	-	20.7	0.0	18.5	3.6	66.3	0.0	0.0	66.3	66.3	70	N	-	-	45.6	Y	N	N
R5324	17	61.5	D2-4	-	20.6	0.0	18.5	3.6	66.1	0.0	0.0	66.1	66.1	70	N	-	-	45.5	Y	N	N
R5324	18	64.5	D2-4	-	20.6	0.0	18.5	3.6	65.9	0.0	0.0	65.9	65.9	70	N	-	-	45.3	Y	N	N
R5324	19	67.5	D2-4	-	20.6	0.0	18.5	3.6	65.7	0.0	0.0	65.7	65.7	70	N	-	-	45.1	Y	N	N
R5324	20	70.5	D2-4	-	20.5	0.0	18.4	3.6	65.5	0.0	0.0	65.5	65.5	70	N	-	-	45.0	Y	N	N
R5325	1	13.5	D2-4	-	40.8	0.0	3.4	2.7	67.7	0.0	0.0	67.7	67.7	70	N	-	-	26.9	Y	N	N
R5325	2	16.5	D2-4	-	41.9	0.0	3.4	2.7	68.8	0.0	0.0	68.8	68.9	70	N	-	-	27.0	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
R5325	3	19.5	D2-4	-	42.7	0.0	3.4	2.7	69.5	0.0	0.0	69.5	69.5	70	N	-	-	26.8	Y	N	N
R5325	4	22.5	D2-4	-	43.3	0.0	3.4	2.7	69.5	0.0	0.0	69.5	69.5	70	N	-	-	26.2	Y	N	N
R5325	5	25.5	D2-4	-	43.7	0.0	3.4	2.7	69.2	0.0	0.0	69.2	69.2	70	N	-	-	25.5	Y	N	N
R5325	6	28.5	D2-4	-	43.9	0.0	3.4	2.7	68.9	0.0	0.0	68.9	68.9	70	N	-	-	25.0	Y	N	N
R5325	7	31.5	D2-4	-	44.1	0.0	3.4	2.7	68.6	0.0	0.0	68.6	68.6	70	N	-	-	24.5	Y	N	N
R5325	8	34.5	D2-4	-	44.2	0.0	3.4	2.7	68.3	0.0	0.0	68.3	68.3	70	N	-	-	24.1	Y	N	N
R5325	9	37.5	D2-4	-	44.3	0.0	3.4	2.7	68.0	0.0	0.0	68.0	68.0	70	N	-	-	23.7	Y	N	N
R5325	10	40.5	D2-4	-	44.3	0.0	3.4	2.7	67.7	0.0	0.0	67.7	67.7	70	N	-	-	23.4	Y	N	N
R5325	11	43.5	D2-4	-	44.4	0.0	3.4	2.7	67.4	0.0	0.0	67.4	67.4	70	N	-	-	23.0	Y	N	N
R5325	12	46.5	D2-4	-	44.3	0.0	3.4	2.7	67.1	0.0	0.0	67.1	67.2	70	N	-	-	22.9	Y	N	N
R5325	13	49.5	D2-4	-	44.4	0.0	3.4	2.7	66.9	0.0	0.0	66.9	66.9	70	N	-	-	22.5	Y	N	N
R5325	14	52.5	D2-4	-	44.3	0.0	3.3	2.6	66.6	0.0	0.0	66.6	66.7	70	N	-	-	22.4	Y	N	N
R5325	15	55.5	D2-4	-	44.3	0.0	3.4	2.6	66.4	0.0	0.0	66.4	66.4	70	N	-	-	22.1	Y	N	N
R5325	16	58.5	D2-4	-	44.3	0.0	3.3	2.6	66.2	0.0	0.0	66.2	66.3	70	N	-	-	22.0	Y	N	N
R5325	17	61.5	D2-4	-	44.3	0.0	3.4	2.6	66.0	0.0	0.0	66.0	66.1	70	N	-	-	21.8	Y	N	N
R5325	18	64.5	D2-4	-	44.2	0.0	3.3	2.6	65.8	0.0	0.0	65.8	65.8	70	N	-	-	21.6	Y	N	N
R5325	19	67.5	D2-4	-	44.2	0.0	3.3	2.6	65.6	0.0	0.0	65.6	65.7	70	N	-	-	21.5	Y	N	N
R5325	20	70.5	D2-4	-	44.2	0.0	3.3	2.6	65.4	0.0	0.0	65.4	65.5	70	N	-	-	21.3	Y	N	N
R5326	1	13.5	D2-4	-	43.5	0.0	-0.5	2.0	66.8	0.0	0.0	66.8	66.8	70	N	-	-	23.3	Y	N	N
R5326	2	16.5	D2-4	-	44.2	0.0	-0.5	2.0	67.3	0.0	0.0	67.3	67.3	70	N	-	-	23.1	Y	N	N
R5326	3	19.5	D2-4	-	44.7	0.0	-0.5	2.0	68.1	0.0	0.0	68.1	68.1	70	N	-	-	23.4	Y	N	N
R5326	4	22.5	D2-4	-	45.1	0.0	-0.5	2.0	68.5	0.0	0.0	68.5	68.5	70	N	-	-	23.4	Y	N	N
R5326	5	25.5	D2-4	-	45.3	0.0	-0.5	2.0	68.6	0.0	0.0	68.6	68.6	70	N	-	-	23.3	Y	N	N
R5326	6	28.5	D2-4	-	45.5	0.0	-0.5	2.0	68.4	0.0	0.0	68.4	68.4	70	N	-	-	22.9	Y	N	N
R5326	7	31.5	D2-4	-	45.7	0.0	-0.5	2.0	68.1	0.0	0.0	68.1	68.1	70	N	-	-	22.4	Y	N	N
R5326	8	34.5	D2-4	-	45.7	0.0	-0.5	2.0	67.9	0.0	0.0	67.9	67.9	70	N	-	-	22.2	Y	N	N
R5326	9	37.5	D2-4	-	45.7	0.0	-0.5	2.0	67.6	0.0	0.0	67.6	67.6	70	N	-	-	21.9	Y	N	N
R5326	10	40.5	D2-4	-	45.8	0.0	-0.5	2.0	67.4	0.0	0.0	67.4	67.4	70	N	-	-	21.6	Y	N	N
R5326	11	43.5	D2-4	-	45.8	0.0	-0.5	1.9	67.1	0.0	0.0	67.1	67.1	70	N	-	-	21.3	Y	N	N
R5326	12	46.5	D2-4	-	45.8	0.0	-0.5	1.9	66.9	0.0	0.0	66.9	66.9	70	N	-	-	21.1	Y	N	N
R5326	13	49.5	D2-4	-	45.8	0.0	-0.5	1.9	66.6	0.0	0.0	66.6	66.7	70	N	-	-	20.9	Y	N	N
R5326	14	52.5	D2-4	-	45.8	0.0	-0.5	1.9	66.4	0.0	0.0	66.4	66.5	70	N	-	-	20.7	Y	N	N
R5326	15	55.5	D2-4	-	45.7	0.0	-0.5	1.9	66.2	0.0	0.0	66.2	66.3	70	N	-	-	20.6	Y	N	N
R5326	16	58.5	D2-4	-	45.8	0.0	-0.5	1.9	66.0	0.0	0.0	66.0	66.1	70	N	-	-	20.3	Y	N	N
R5326	17	61.5	D2-4	-	45.8	0.0	-0.6	1.9	65.9	0.0	0.0	65.9	65.9	70	N	-	-	20.1	Y	N	N
R5326	18	64.5	D2-4	-	45.7	0.0	-0.6	1.8	65.7	0.0	0.0	65.7	65.7	70	N	-	-	20.0	Y	N	N
R5326	19	67.5	D2-4	-	45.7	0.0	-0.6	1.8	65.5	0.0	0.0	65.5	65.5	70	N	-	-	19.8	Y	N	N
R5326	20	70.5	D2-4	-	45.7	0.0	-0.6	1.8	65.3	0.0	0.0	65.3	65.4	70	N	-	-	19.7	Y	N	N
R5341	1	13.0	D2-6	-	0.0	0.0	59.8	40.3	45.8	0.0	0.0	60.0	60.0	70	N	-	-	57.0	Y	N	N
R5341	2	15.7	D2-6	-	0.0	0.0	60.5	40.3	45.8	0.0	0.0	60.7	60.7	70	N	-	-	57.7	Y	N	N
R5341	3	18.4	D2-6	-	0.0	0.0	61.5	40.3	45.8	0.0	0.0	61.7	61.7	70	N	-	-	58.7	Y	N	N
R5341	4	21.1	D2-6	-	0.0	0.0	62.0	40.3	45.8	0.0	0.0	62.1	62.1	70	N	-	-	59.1	Y	N	N
R5341	5	23.8	D2-6	-	0.0	0.0	62.8	40.2	45.9	0.0	0.0	62.9	62.9	70	N	-	-	59.9	Y	N	N
R5341	6	26.5	D2-6	-	0.0	0.0	63.4	40.2	45.8	0.0	0.0	63.5	63.5	70	N	-	-	60.5	Y	N	N
R5341	7	29.2	D2-6	-	0.0	0.0	64.1	40.2	45.8	0.0	0.0	64.1	64.1	70	N	-	-	61.1	Y	N	N
R5341	8	31.9	D2-6	-	0.0	0.0	64.6	40.3	45.8	0.0	0.0	64.7	64.7	70	N	-	-	61.7	Y	N	N
R5341	9	34.6	D2-6	-	0.0	0.0	65.1	40.3	45.8	0.0	0.0	65.1	65.1	70	N	-	-	62.1	Y	N	N
R5341	10	37.3	D2-6	-	0.0	0.0	65.5	40.3	45.8	0.0	0.0	65.5	65.5	70	N	-	-	62.5	Y	N	N
R5341	11	40.0	D2-6	-	0.0	0.0	65.8	40.3	45.9	0.0	0.0	65.8	65.8	70	N	-	-	62.8	Y	N	N
R5341	12	42.7	D2-6	-	0.0	0.0	66.0	40.3	45.9	0.0	0.0	66.1	66.1	70	N	-	-	63.1	Y	N	N
R5341	13	45.4	D2-6	-	0.0	0.0	66.2	40.3	45.9	0.0	0.0	66.3	66.3	70	N	-	-	63.3	Y	N	N
R5341	14	48.1	D2-6	-	0.0	0.0	66.5	40.3	46.0	0.0	0.0	66.5	66.5	70	N	-	-	63.5	Y	N	N
R5341	15	50.8	D2-6	-	0.0	0.0	66.6	40.3	46.0	0.0	0.0	66.7	66.7	70	N	-	-	63.7	Y	N	N
R5341	16	53.5	D2-6	-	0.0	0.0	66.8	40.3	46.0	0.0	0.0	66.8	66.8	70	N	-	-	63.8	Y	N	N
R5341	17	56.2	D2-6	-	0.0	0.0	66.9	40.3	46.0	0.0	0.0	66.9	66.9	70	N	-	-	63.9	Y	N	N
R5341	18	58.9	D2-6	-	0.0	0.0	67.1	40.3	46.0	0.0	0.0	67.1	67.1	70	N	-	-	64.1	Y	N	N
R5341	19	61.6	D2-6	-	0.0	0.0	67.2	40.3	46.0	0.0	0.0	67.2	67.2	70	N	-	-	64.2	Y	N	N
R5341	20	64.3	D2-6	-	0.0	0.0	67.2	40.2	46.0	0.0	0.0	67.3	67.3	70	N	-	-	64.3	Y	N	N
R5341	21	67.0	D2-6	-	0.0	0.0	67.3	40.2	46.0	0.0	0.0	67.3	67.3	70	N	-	-	64.3	Y	N	N
R5341	22	69.7	D2-6	-	0.0	0.0	67.3	40.2	46.0	0.0	0.0	67.4	67.4	70	N	-	-	64.4	Y	N	N
R5341	23	72.4	D2-6	-	0.0	0.0	67.4	40.2	46.0	0.0	0.0	67.4	67.4	70	N	-	-	64.4	Y	N	N
R5341	24	75.1	D2-6	-	0.0	0.0	67.4	40.2	46.0	0.0	0.0	67.4	67.4	70	N	-	-	64.4	Y	N	N
R5341	25	77.8	D2-6	-	0.0	0.0	67.4	40.2	46.0	0.0	0.0	67.4	67.4	70	N	-	-	64.4	Y	N	N
R5342	1	13.0	D2-6	-	22.0	0.0	28.6	18.1	66.8	0.0	0.0	66.8	66.8	70	N	-	-	44.8	Y	N	N
R5342	2	15.7	D2-6	-	22.1	0.0	28.6	18.1	68.4	0.0	0.0	68.4	68.4	70	N	-	-	46.3	Y	N	N
R5342	3	18.4	D2-6	-	22.1	0.0	28.6	18.1	69.8	0.0	0.0	69.8	69.8	70	N	-	-	47.7	Y	N	N
R5342	4	21.1	D2-6	-	22.2	0.0	28.6	18.1	70.1	0.0	0.0	70.1	70.1	70	N	-	-	47.9	Y	N	N
R5342	5	23.8	D2-6	-	22.3	0.0	28.6	18.1	70.0	0.0	0.0	70.0	70.0	70	N	-	-	47.7	Y	N	N
R5342	6	26.5	D2-6	-	22.4	0.0	28.6	18.1	69.9	0.0	0.0	69.9	69.9	70	N	-	-	47.5	Y	N	N
R5342	7	29.2	D2-6	-	22.6	0.0	28.6	18.1	69.6	0.0	0.0	69.6	69.6	70	N	-	-	47.0	Y	N	N
R5342	8	31.9	D2-6	-	22.8	0.0	28.6	18.1	69.3	0.0	0.0	69.3	69.3	70	N	-	-	46.5	Y	N	N
R5342	9	34.6	D2-6	-	23.2	0.0	28.5	18.0	69.0	0.0	0.0	69.0	69.0	70	N	-	-	45.8	Y	N	N
R5342	10	37.3	D2-6	-	23.8	0.0	28.5	18.0	68.7	0.0	0.0	68.7	68.7	70	N	-	-	44.9	Y	N	N
R5342	11	40.0	D2-6	-	25.1	0.0	28.6	18.0	68.4	0.0	0.0	68.4	68.4	70	N	-	-	43.3	Y	N	N
R5342	12	42.7	D2-6	-	26.0	0.0	28.7	18.0	68.3	0.0	0.0	68.3	68.3	70	N	-	-	42.3	Y	N	N
R5342	13	45.4	D2-6	-	27.1	0.0	28.7	18.1	68.0	0.0	0.0	68.0	68.0	70	N	-	-	40.9	Y	N	N
R5342	14	48.1	D2-6	-	27.6	0.0	28.9	18.7	67.8	0.0	0.0	67.8	67.8	70	N	-	-	40.2	Y	N	N
R5342	15	50.8	D2-6	-	27.9	0.0	29.0	19.4	67.6	0.0	0.0	67.6	67.6	70	N	-	-	39.7	Y	N	N
R5342	16	53.5	D2-6	-	28.0	0.0	29.2	20.3	67.3	0.0	0.0	67.3	67.3	70	N	-	-	39.3	Y	N	N
R5342	17	56.2	D2-6	-	28.0	0.0	29.4	21.0	67.1	0.0	0.0	67.1	67.1	70	N	-	-	39.1	Y	N	N
R5342	18	58.9	D2-6	-	28.0	0.0	29.7	21.9	66.9	0.0	0.0	66.9	66.9	70	N	-	-	38.9	Y	N	N
R5342	19	61.6	D2-6	-	27.9	0.0	30.0	22.7	66.8	0.0	0.0	66.8	66.8	70	N	-	-	38.9	Y	N	N
R5342	20	64.3	D2-6	-	27.9	0.0	30.2	23.6	66.6	0.0	0.0	66.6	66.6	70	N	-	-	38.7	Y	N	N
R5342	21	67.0	D2-6	-	27.9	0.0	30.6	24.6	66.4	0.0	0.0	66.4	66.4	70	N	-	-	38.5	Y	N	N
R5342	22	69.7	D2-6	-	27.9	0.0	31.0	25.6	66.3	0.0	0.0	66.3	66.3	70	N	-	-	38.4	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

				WITHOUT PROJECT	WITH PROJECT														
Assessment Point			Location	Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	New Roads[2] dB (A)					New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
ID	Floor	Floor Level (mPD)					PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
R5342	23	72.4	D2-6	-	27.8	0.0	31.4	26.6	66.1	0.0	0.0	66.1	66.1	70	N	-	-	38.3	Y	N	N
R5342	24	75.1	D2-6	-	27.8	0.0	31.8	27.7	66.0	0.0	0.0	66.0	66.0	70	N	-	-	38.2	Y	N	N
R5342	25	77.8	D2-6	-	27.7	0.0	32.3	28.8	65.8	0.0	0.0	65.8	65.8	70	N	-	-	38.1	Y	N	N
R5343	1	13.0	D2-6	-	22.2	0.0	27.0	19.6	69.0	0.0	0.0	69.0	69.0	70	N	-	-	46.8	Y	N	N
R5343	2	15.7	D2-6	-	22.2	0.0	27.0	19.6	69.2	0.0	0.0	69.2	69.2	70	N	-	-	47.0	Y	N	N
R5343	3	18.4	D2-6	-	22.2	0.0	27.0	19.6	69.5	0.0	0.0	69.5	69.5	70	N	-	-	47.3	Y	N	N
R5343	4	21.1	D2-6	-	22.2	0.0	27.1	19.6	69.7	0.0	0.0	69.7	69.7	70	N	-	-	47.5	Y	N	N
R5343	5	23.8	D2-6	-	22.2	0.0	27.1	19.6	69.6	0.0	0.0	69.6	69.6	70	N	-	-	47.4	Y	N	N
R5343	6	26.5	D2-6	-	22.2	0.0	27.1	19.5	69.4	0.0	0.0	69.4	69.4	70	N	-	-	47.2	Y	N	N
R5343	7	29.2	D2-6	-	22.2	0.0	27.1	19.5	69.2	0.0	0.0	69.2	69.2	70	N	-	-	47.0	Y	N	N
R5343	8	31.9	D2-6	-	22.2	0.0	27.2	19.5	68.9	0.0	0.0	68.9	68.9	70	N	-	-	46.7	Y	N	N
R5343	9	34.6	D2-6	-	22.2	0.0	27.3	19.5	68.7	0.0	0.0	68.7	68.7	70	N	-	-	46.5	Y	N	N
R5343	10	37.3	D2-6	-	22.2	0.0	27.5	19.5	68.5	0.0	0.0	68.5	68.5	70	N	-	-	46.3	Y	N	N
R5343	11	40.0	D2-6	-	22.2	0.0	27.8	19.5	68.2	0.0	0.0	68.2	68.2	70	N	-	-	46.0	Y	N	N
R5343	12	42.7	D2-6	-	22.2	0.0	28.2	19.4	67.9	0.0	0.0	67.9	67.9	70	N	-	-	45.7	Y	N	N
R5343	13	45.4	D2-6	-	22.2	0.0	28.6	19.5	67.7	0.0	0.0	67.7	67.7	70	N	-	-	45.5	Y	N	N
R5343	14	48.1	D2-6	-	22.2	0.0	29.0	19.5	67.4	0.0	0.0	67.4	67.4	70	N	-	-	45.2	Y	N	N
R5343	15	50.8	D2-6	-	22.2	0.0	29.3	19.6	67.2	0.0	0.0	67.2	67.2	70	N	-	-	45.0	Y	N	N
R5343	16	53.5	D2-6	-	22.2	0.0	29.6	20.4	67.0	0.0	0.0	67.0	67.0	70	N	-	-	44.8	Y	N	N
R5343	17	56.2	D2-6	-	22.1	0.0	29.9	21.6	66.8	0.0	0.0	66.8	66.8	70	N	-	-	44.7	Y	N	N
R5343	18	58.9	D2-6	-	22.1	0.0	30.2	22.9	66.6	0.0	0.0	66.6	66.6	70	N	-	-	44.5	Y	N	N
R5343	19	61.6	D2-6	-	22.1	0.0	30.6	23.9	66.4	0.0	0.0	66.4	66.4	70	N	-	-	44.3	Y	N	N
R5343	20	64.3	D2-6	-	22.1	0.0	30.9	25.0	66.3	0.0	0.0	66.3	66.3	70	N	-	-	44.2	Y	N	N
R5343	21	67.0	D2-6	-	22.1	0.0	31.4	26.0	66.1	0.0	0.0	66.1	66.1	70	N	-	-	44.0	Y	N	N
R5343	22	69.7	D2-6	-	22.1	0.0	31.8	27.1	65.9	0.0	0.0	65.9	65.9	70	N	-	-	43.8	Y	N	N
R5343	23	72.4	D2-6	-	22.1	0.0	32.4	28.3	65.8	0.0	0.0	65.8	65.8	70	N	-	-	43.7	Y	N	N
R5343	24	75.1	D2-6	-	22.0	0.0	33.0	29.6	65.6	0.0	0.0	65.6	65.6	70	N	-	-	43.6	Y	N	N
R5343	25	77.8	D2-6	-	22.0	0.0	33.6	30.9	65.5	0.0	0.0	65.5	65.5	70	N	-	-	43.5	Y	N	N
R5401	1	17.0	D3-1a	-	69.7	0.0	0.0	0.0	62.3	0.0	0.0	62.3	70.4	70	N	-	-	0.7	N	N	N
R5401	2	19.7	D3-1a	-	69.8	0.0	0.0	0.0	62.3	0.0	0.0	62.3	70.5	70	Y	-	-	0.7	N	N	N
R5401	3	22.4	D3-1a	-	69.9	0.0	0.0	0.0	62.2	0.0	0.0	62.2	70.6	70	Y	-	-	0.7	N	N	N
R5401	4	25.1	D3-1a	-	69.8	0.0	0.0	0.0	62.1	0.0	0.0	62.1	70.5	70	Y	-	-	0.7	N	N	N
R5401	5	27.8	D3-1a	-	69.7	0.0	0.0	0.0	62.0	0.0	0.0	62.0	70.4	70	N	-	-	0.7	N	N	N
R5401	6	30.5	D3-1a	-	69.5	0.0	0.0	0.0	61.9	0.0	0.0	61.9	70.2	70	N	-	-	0.7	N	N	N
R5401	7	33.2	D3-1a	-	69.4	0.0	0.0	0.0	61.8	0.0	0.0	61.8	70.1	70	N	-	-	0.7	N	N	N
R5401	8	35.9	D3-1a	-	69.2	0.0	0.0	0.0	61.7	0.0	0.0	61.7	69.9	70	N	-	-	0.7	N	N	N
R5401	9	38.6	D3-1a	-	69.0	0.0	0.0	0.0	61.5	0.0	0.0	61.5	69.7	70	N	-	-	0.7	N	N	N
R5401	10	41.3	D3-1a	-	68.8	0.0	0.0	0.0	61.4	0.0	0.0	61.4	69.6	70	N	-	-	0.8	N	N	N
R5401	11	44.0	D3-1a	-	68.7	0.0	0.0	0.0	61.3	0.0	0.0	61.3	69.4	70	N	-	-	0.7	N	N	N
R5401	12	46.7	D3-1a	-	68.5	0.0	0.0	0.0	61.1	0.0	0.0	61.1	69.2	70	N	-	-	0.7	N	N	N
R5401	13	49.4	D3-1a	-	68.3	0.0	0.0	0.0	61.0	0.0	0.0	61.0	69.0	70	N	-	-	0.7	N	N	N
R5401	14	52.1	D3-1a	-	68.1	0.0	0.0	0.0	60.8	0.0	0.0	60.8	68.9	70	N	-	-	0.8	N	N	N
R5401	15	54.8	D3-1a	-	68.0	0.0	0.0	0.0	60.7	0.0	0.0	60.7	68.7	70	N	-	-	0.7	N	N	N
R5401	16	57.5	D3-1a	-	67.8	0.0	0.0	0.0	60.5	0.0	0.0	60.5	68.6	70	N	-	-	0.8	N	N	N
R5401	17	60.2	D3-1a	-	67.7	0.0	0.0	0.0	60.4	0.0	0.0	60.4	68.4	70	N	-	-	0.7	N	N	N
R5401	18	62.9	D3-1a	-	67.5	0.0	0.0	0.0	60.3	0.0	0.0	60.3	68.3	70	N	-	-	0.8	N	N	N
R5401	19	65.6	D3-1a	-	67.4	0.0	0.0	0.0	60.1	0.0	0.0	60.1	68.1	70	N	-	-	0.7	N	N	N
R5401	20	68.3	D3-1a	-	67.3	0.0	0.0	0.0	60.0	0.0	0.0	60.0	68.0	70	N	-	-	0.7	N	N	N
R5401	21	71.0	D3-1a	-	67.2	0.0	0.0	0.0	59.9	0.0	0.0	59.9	67.9	70	N	-	-	0.7	N	N	N
R5401	22	73.7	D3-1a	-	67.0	0.0	0.0	0.0	59.7	0.0	0.0	59.7	67.8	70	N	-	-	0.8	N	N	N
R5401	23	76.4	D3-1a	-	66.9	0.0	0.0	0.0	59.6	0.0	0.0	59.6	67.7	70	N	-	-	0.8	N	N	N
R5401	24	79.1	D3-1a	-	66.8	0.0	0.0	0.0	59.5	0.0	0.0	59.5	67.5	70	N	-	-	0.7	N	N	N
R5401	25	81.8	D3-1a	-	66.7	0.0	0.0	0.0	59.3	0.0	0.0	59.3	67.4	70	N	-	-	0.7	N	N	N
R5402	1	17.0	D3-1a	-	65.2	0.0	41.8	49.9	69.6	0.0	0.0	69.6	71.0	70	Y	-	-	5.8	Y	N	Y
R5402	2	19.7	D3-1a	-	65.4	0.0	43.4	50.5	69.4	0.0	0.0	69.5	70.9	70	Y	-	-	5.5	Y	N	Y
R5402	3	22.4	D3-1a	-	65.6	0.0	45.0	51.2	69.3	0.0	0.0	69.4	70.9	70	Y	-	-	5.3	Y	N	Y
R5402	4	25.1	D3-1a	-	65.6	0.0	45.9	51.7	69.1	0.0	0.0	69.2	70.8	70	Y	-	-	5.2	Y	N	Y
R5402	5	27.8	D3-1a	-	65.4	0.0	46.5	52.2	69.0	0.0	0.0	69.1	70.7	70	Y	-	-	5.3	Y	N	Y
R5402	6	30.5	D3-1a	-	65.4	0.0	46.9	52.5	68.8	0.0	0.0	68.9	70.5	70	Y	-	-	5.1	Y	N	Y
R5402	7	33.2	D3-1a	-	65.3	0.0	47.1	52.7	68.6	0.0	0.0	68.7	70.3	70	N	-	-	5.0	Y	N	N
R5402	8	35.9	D3-1a	-	65.1	0.0	47.4	52.8	68.4	0.0	0.0	68.5	70.2	70	N	-	-	5.1	Y	N	N
R5402	9	38.6	D3-1a	-	65.0	0.0	47.5	52.9	68.2	0.0	0.0	68.4	70.0	70	N	-	-	5.0	Y	N	N
R5402	10	41.3	D3-1a	-	64.9	0.0	47.6	53.1	68.0	0.0	0.0	68.1	69.8	70	N	-	-	4.9	Y	N	N
R5402	11	44.0	D3-1a	-	64.8	0.0	47.7	53.1	67.8	0.0	0.0	68.0	69.7	70	N	-	-	4.9	Y	N	N
R5402	12	46.7	D3-1a	-	64.7	0.0	48.0	53.2	67.6	0.0	0.0	67.8	69.5	70	N	-	-	4.8	Y	N	N
R5402	13	49.4	D3-1a	-	64.5	0.0	48.0	53.4	67.4	0.0	0.0	67.6	69.3	70	N	-	-	4.8	Y	N	N
R5402	14	52.1	D3-1a	-	64.4	0.0	48.1	53.6	67.2	0.0	0.0	67.5	69.2	70	N	-	-	4.8	Y	N	N
R5402	15	54.8	D3-1a	-	64.3	0.0	48.1	53.8	67.0	0.0	0.0	67.3	69.1	70	N	-	-	4.8	Y	N	N
R5402	16	57.5	D3-1a	-	64.1	0.0	48.2	54.2	66.9	0.0	0.0	67.1	68.9	70	N	-	-	4.8	Y	N	N
R5402	17	60.2	D3-1a	-	64.0	0.0	48.2	54.5	66.7	0.0	0.0	67.0	68.8	70	N	-	-	4.8	Y	N	N
R5402	18	62.9	D3-1a	-	63.9	0.0	48.3	54.7	66.5	0.0	0.0	66.9	68.7	70	N	-	-	4.8	Y	N	N
R5402	19	65.6	D3-1a	-	63.8	0.0	48.4	54.9	66.4	0.0	0.0	66.7	68.5	70	N	-	-	4.7	Y	N	N
R5402	20	68.3	D3-1a	-	63.7	0.0	48.5	55.1	66.2	0.0	0.0	66.6	68.4	70	N	-	-	4.7	Y	N	N
R5402	21	71.0	D3-1a	-	63.6	0.0	48.5	55.3	66.1	0.0	0.0	66.5	68.3	70	N	-	-	4.7	Y	N	N
R5402	22	73.7	D3-1a	-	63.4	0.0	48.5	55.6	65.9	0.0	0.0	66.4	68.2	70	N	-	-	4.8	Y	N	N
R5402	23	76.4	D3-1a	-	63.3	0.0	48.6	55.7	65.8	0.0	0.0	66.3	68.1	70	N	-	-	4.8	Y	N	N
R5402	24	79.1	D3-1a	-	63.2	0.0	48.6	55.8	65.7	0.0	0.0	66.2	68.0	70	N	-	-	4.8	Y	N	N
R5402	25	81.8	D3-1a	-	63.1	0.0	48.7	55.9	65.6	0.0	0.0	66.1	67.9	70	N	-	-	4.8	Y	N	N
R5403	1	17.0	D3-1a	-	61.7	0.0	38.4	49.1	70.7	0.0	0.0	70.7	71.2	70	Y	-	-	9.5	Y	Y	Y
R5403	2	19.7	D3-1a	-	61.8	0.0	42.1	52.6	70.7	0.0	0.0	70.8	71.3	70	Y	-	-	9.5	Y	Y	Y
R5403	3	22.4	D3-1a	-	61.9	0.0	43.4	54.1	70.6	0.0	0.0	70.7	71.3	70	Y	-	-	9.4	Y	Y	Y
R5403	4	25.1	D3-1a	-	61.8	0.0	43.8	54.8	70.5	0.0	0.0	70.6	71.1	70	Y	-	-	9.3	Y	Y	Y
R5403	5	27.8	D3-1a	-	61.8	0.0	43.9	55.0	70.3	0.0	0.0	70.4	71.0	70	Y	-	-	9.2	Y	N	Y
R5403	6	30.5	D3-1a	-	61.8	0.0	43.9	55.3	70.1	0.0	0.0	70.3	70.8	70	Y	-	-	9.0	Y	N	Y
R5403	7	33.2	D3-1a	-	61.7	0.0	43.9	55.5	69.9	0.0	0.0	70.1	70.7	70	Y	-	-	9.0	Y	N	Y

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
R5403	8	35.9	D3-1a	-	61.7	0.0	43.9	55.6	69.7	0.0	0.0	69.9	70.5	70	Y	-	-	8.8	Y	N	Y
R5403	9	38.6	D3-1a	-	61.7	0.0	43.9	55.7	69.5	0.0	0.0	69.7	70.4	70	N	-	-	8.7	Y	N	N
R5403	10	41.3	D3-1a	-	61.6	0.0	43.9	55.8	69.4	0.0	0.0	69.6	70.2	70	N	-	-	8.6	Y	N	N
R5403	11	44.0	D3-1a	-	61.5	0.0	43.9	56.0	69.2	0.0	0.0	69.4	70.1	70	N	-	-	8.6	Y	N	N
R5403	12	46.7	D3-1a	-	61.5	0.0	43.9	56.3	69.0	0.0	0.0	69.3	69.9	70	N	-	-	8.4	Y	N	N
R5403	13	49.4	D3-1a	-	61.4	0.0	43.9	56.6	68.9	0.0	0.0	69.1	69.8	70	N	-	-	8.4	Y	N	N
R5403	14	52.1	D3-1a	-	61.4	0.0	43.9	56.8	68.7	0.0	0.0	69.0	69.7	70	N	-	-	8.3	Y	N	N
R5403	15	54.8	D3-1a	-	61.3	0.0	43.8	57.0	68.5	0.0	0.0	68.8	69.5	70	N	-	-	8.2	Y	N	N
R5403	16	57.5	D3-1a	-	61.2	0.0	43.8	57.2	68.4	0.0	0.0	68.7	69.4	70	N	-	-	8.2	Y	N	N
R5403	17	60.2	D3-1a	-	61.2	0.0	43.8	57.5	68.2	0.0	0.0	68.6	69.3	70	N	-	-	8.1	Y	N	N
R5403	18	62.9	D3-1a	-	61.1	0.0	43.8	57.7	68.0	0.0	0.0	68.4	69.2	70	N	-	-	8.1	Y	N	N
R5403	19	65.6	D3-1a	-	61.0	0.0	43.8	57.8	67.9	0.0	0.0	68.3	69.0	70	N	-	-	8.0	Y	N	N
R5403	20	68.3	D3-1a	-	61.0	0.0	43.8	57.9	67.7	0.0	0.0	68.1	68.9	70	N	-	-	7.9	Y	N	N
R5403	21	71.0	D3-1a	-	60.9	0.0	43.8	57.9	67.6	0.0	0.0	68.0	68.8	70	N	-	-	7.9	Y	N	N
R5403	22	73.7	D3-1a	-	60.9	0.0	43.8	57.9	67.4	0.0	0.0	67.9	68.7	70	N	-	-	7.8	Y	N	N
R5403	23	76.4	D3-1a	-	60.8	0.0	43.7	57.9	67.3	0.0	0.0	67.8	68.5	70	N	-	-	7.7	Y	N	N
R5403	24	79.1	D3-1a	-	60.7	0.0	43.7	57.8	67.1	0.0	0.0	67.6	68.4	70	N	-	-	7.7	Y	N	N
R5403	25	81.8	D3-1a	-	60.6	0.0	43.7	57.8	67.0	0.0	0.0	67.5	68.3	70	N	-	-	7.7	Y	N	N
R5403	26	84.5	D3-1a	-	60.6	0.0	43.7	57.8	66.9	0.0	0.0	67.4	68.2	70	N	-	-	7.6	Y	N	N
R5403	27	87.2	D3-1a	-	60.5	0.0	43.7	57.8	66.7	0.0	0.0	67.3	68.1	70	N	-	-	7.6	Y	N	N
R5403	28	89.9	D3-1a	-	60.5	0.0	43.7	57.8	66.6	0.0	0.0	67.2	68.0	70	N	-	-	7.5	Y	N	N
R5403	29	92.6	D3-1a	-	60.4	0.0	43.7	57.7	66.5	0.0	0.0	67.1	67.9	70	N	-	-	7.5	Y	N	N
R5403	30	95.3	D3-1a	-	60.3	0.0	43.6	57.7	66.4	0.0	0.0	67.0	67.8	70	N	-	-	7.5	Y	N	N
R5404	1	17.0	D3-1a	-	14.2	0.0	31.1	48.0	65.9	0.0	0.0	66.0	66.0	70	N	-	-	51.6	Y	N	N
R5404	2	19.7	D3-1a	-	14.5	0.0	31.1	51.4	66.6	0.0	0.0	66.7	66.7	70	N	-	-	52.0	Y	N	N
R5404	3	22.4	D3-1a	-	14.7	0.0	31.1	52.4	67.2	0.0	0.0	67.3	67.3	70	N	-	-	52.5	Y	N	N
R5404	4	25.1	D3-1a	-	15.0	0.0	31.1	52.9	67.7	0.0	0.0	67.9	67.9	70	N	-	-	52.8	Y	N	N
R5404	5	27.8	D3-1a	-	15.3	0.0	31.1	53.3	68.2	0.0	0.0	68.3	68.3	70	N	-	-	52.9	Y	N	N
R5404	6	30.5	D3-1a	-	15.5	0.0	31.1	53.7	68.6	0.0	0.0	68.8	68.8	70	N	-	-	53.2	Y	N	N
R5404	7	33.2	D3-1a	-	15.8	0.0	31.1	54.1	68.8	0.0	0.0	69.0	69.0	70	N	-	-	53.1	Y	N	N
R5404	8	35.9	D3-1a	-	16.2	0.0	31.1	54.4	68.9	0.0	0.0	69.1	69.1	70	N	-	-	52.8	Y	N	N
R5404	9	38.6	D3-1a	-	16.5	0.0	31.1	54.5	68.9	0.0	0.0	69.0	69.0	70	N	-	-	52.4	Y	N	N
R5404	10	41.3	D3-1a	-	16.9	0.0	31.1	54.8	68.8	0.0	0.0	69.0	69.0	70	N	-	-	52.0	Y	N	N
R5404	11	44.0	D3-1a	-	17.2	0.0	31.1	55.1	68.8	0.0	0.0	68.9	68.9	70	N	-	-	51.6	Y	N	N
R5404	12	46.7	D3-1a	-	17.6	0.0	31.1	55.6	68.7	0.0	0.0	68.9	68.9	70	N	-	-	51.2	Y	N	N
R5404	13	49.4	D3-1a	-	18.0	0.0	31.1	56.0	68.6	0.0	0.0	68.8	68.8	70	N	-	-	50.7	Y	N	N
R5404	14	52.1	D3-1a	-	18.5	0.0	31.0	56.3	68.5	0.0	0.0	68.7	68.7	70	N	-	-	50.1	Y	N	N
R5404	15	54.8	D3-1a	-	18.9	0.0	31.0	56.7	68.4	0.0	0.0	68.7	68.7	70	N	-	-	49.7	Y	N	N
R5404	16	57.5	D3-1a	-	19.3	0.0	31.0	57.0	68.3	0.0	0.0	68.6	68.6	70	N	-	-	49.2	Y	N	N
R5404	17	60.2	D3-1a	-	19.8	0.0	31.1	57.3	68.2	0.0	0.0	68.6	68.6	70	N	-	-	48.8	Y	N	N
R5404	18	62.9	D3-1a	-	20.3	0.0	31.3	57.4	68.1	0.0	0.0	68.5	68.5	70	N	-	-	48.2	Y	N	N
R5404	19	65.6	D3-1a	-	20.8	0.0	31.9	57.4	68.0	0.0	0.0	68.4	68.4	70	N	-	-	47.6	Y	N	N
R5404	20	68.3	D3-1a	-	21.4	0.0	32.7	57.4	67.9	0.0	0.0	68.3	68.3	70	N	-	-	46.9	Y	N	N
R5404	21	71.0	D3-1a	-	22.0	0.0	33.5	57.4	67.8	0.0	0.0	68.2	68.2	70	N	-	-	46.2	Y	N	N
R5404	22	73.7	D3-1a	-	22.5	0.0	34.4	57.4	67.7	0.0	0.0	68.1	68.1	70	N	-	-	45.6	Y	N	N
R5404	23	76.4	D3-1a	-	23.1	0.0	35.3	57.4	67.6	0.0	0.0	68.0	68.0	70	N	-	-	44.9	Y	N	N
R5404	24	79.1	D3-1a	-	23.8	0.0	36.3	57.4	67.4	0.0	0.0	67.9	67.9	70	N	-	-	44.1	Y	N	N
R5404	25	81.8	D3-1a	-	24.5	0.0	37.4	57.4	67.3	0.0	0.0	67.7	67.7	70	N	-	-	43.2	Y	N	N
R5404	26	84.5	D3-1a	-	25.3	0.0	38.4	57.3	67.2	0.0	0.0	67.6	67.6	70	N	-	-	42.3	Y	N	N
R5404	27	87.2	D3-1a	-	26.0	0.0	39.6	57.3	67.1	0.0	0.0	67.5	67.5	70	N	-	-	41.5	Y	N	N
R5404	28	89.9	D3-1a	-	26.9	0.0	40.8	57.3	67.0	0.0	0.0	67.4	67.4	70	N	-	-	40.5	Y	N	N
R5404	29	92.6	D3-1a	-	27.9	0.0	42.1	57.3	66.9	0.0	0.0	67.3	67.3	70	N	-	-	39.4	Y	N	N
R5404	30	95.3	D3-1a	-	29.4	0.0	43.5	57.3	66.8	0.0	0.0	67.2	67.2	70	N	-	-	37.8	Y	N	N
R5421	1	22.5	D3-3	-	23.4	0.0	51.0	42.5	64.3	0.0	0.0	64.6	64.6	70	N	-	-	41.2	Y	N	N
R5421	2	25.5	D3-3	-	23.4	0.0	51.4	42.9	66.8	0.0	0.0	67.0	67.0	70	N	-	-	43.6	Y	N	N
R5421	3	28.5	D3-3	-	23.3	0.0	51.8	43.2	67.2	0.0	0.0	67.4	67.4	70	N	-	-	44.1	Y	N	N
R5421	4	31.5	D3-3	-	23.3	0.0	52.1	43.3	67.2	0.0	0.0	67.4	67.4	70	N	-	-	44.1	Y	N	N
R5421	5	34.5	D3-3	-	23.3	0.0	52.5	43.4	67.0	0.0	0.0	67.2	67.2	70	N	-	-	43.9	Y	N	N
R5421	6	37.5	D3-3	-	23.3	0.0	52.8	43.4	66.8	0.0	0.0	67.0	67.0	70	N	-	-	43.7	Y	N	N
R5421	7	40.5	D3-3	-	23.3	0.0	53.1	43.4	66.7	0.0	0.0	66.9	66.9	70	N	-	-	43.6	Y	N	N
R5421	8	43.5	D3-3	-	23.3	0.0	53.4	43.4	66.5	0.0	0.0	66.7	66.7	70	N	-	-	43.4	Y	N	N
R5421	9	46.5	D3-3	-	23.3	0.0	53.7	43.4	66.3	0.0	0.0	66.5	66.5	70	N	-	-	43.2	Y	N	N
R5421	10	49.5	D3-3	-	23.3	0.0	53.9	43.3	66.1	0.0	0.0	66.4	66.4	70	N	-	-	43.1	Y	N	N
R5421	11	52.5	D3-3	-	23.3	0.0	54.1	43.3	65.9	0.0	0.0	66.2	66.2	70	N	-	-	42.9	Y	N	N
R5421	12	55.5	D3-3	-	23.3	0.0	54.3	43.3	65.7	0.0	0.0	66.1	66.1	70	N	-	-	42.8	Y	N	N
R5421	13	58.5	D3-3	-	23.3	0.0	54.5	43.3	65.6	0.0	0.0	65.9	65.9	70	N	-	-	42.6	Y	N	N
R5421	14	61.5	D3-3	-	23.2	0.0	54.6	43.3	65.4	0.0	0.0	65.8	65.8	70	N	-	-	42.6	Y	N	N
R5421	15	64.5	D3-3	-	23.2	0.0	54.8	43.3	65.2	0.0	0.0	65.6	65.6	70	N	-	-	42.4	Y	N	N
R5421	16	67.5	D3-3	-	23.2	0.0	54.9	43.3	65.0	0.0	0.0	65.5	65.5	70	N	-	-	42.3	Y	N	N
R5421	17	70.5	D3-3	-	23.2	0.0	55.0	43.3	64.9	0.0	0.0	65.4	65.4	70	N	-	-	42.2	Y	N	N
R5421	18	73.5	D3-3	-	23.2	0.0	55.1	43.3	64.7	0.0	0.0	65.2	65.2	70	N	-	-	42.0	Y	N	N
R5421	19	76.5	D3-3	-	23.2	0.0	55.3	43.2	64.6	0.0	0.0	65.1	65.1	70	N	-	-	41.9	Y	N	N
R5421	20	79.5	D3-3	-	23.1	0.0	55.4	43.3	64.4	0.0	0.0	65.0	65.0	70	N	-	-	41.9	Y	N	N
R5421	21	82.5	D3-3	-	23.1	0.0	55.5	43.3	64.3	0.0	0.0	64.9	64.9	70	N	-	-	41.8	Y	N	N
R5421	22	85.5	D3-3	-	23.1	0.0	55.7	43.3	64.2	0.0	0.0	64.8	64.8	70	N	-	-	41.7	Y	N	N
R5421	23	88.5	D3-3	-	23.1	0.0	56.1	43.3	64.0	0.0	0.0	64.7	64.7	70	N	-	-	41.6	Y	N	N
R5421	24	91.5	D3-3	-	23.1	0.0	56.7	43.3	63.9	0.0	0.0	64.7	64.7	70	N	-	-	41.6	Y	N	N
R5421	25	94.5	D3-3	-	23.0	0.0	57.7	43.3	63.8	0.0	0.0	64.7	64.7	70	N	-	-	41.7	Y	N	N
R5421	26	97.5	D3-3	-	23.0	0.0	58.9	43.3	63.6	0.0	0.0	64.9	64.9	70	N	-	-	41.9	Y	N	N
R5421	27	100.5	D3-3	-	23.0	0.0	59.8	43.4	63.5	0.0	0.0	65.1	65.1	70	N	-	-	42.1	Y	N	N
R5421	28	103.5	D3-3	-	23.1	0.0	60.2	43.5	63.4	0.0	0.0	65.1	65.1	70	N	-	-	42.0	Y	N	N
R5421	29	106.5	D3-3	-	23.4	0.0	60.3	43.7	63.3	0.0	0.0	65.1	65.1	70	N	-	-	41.7	Y	N	N
R5421	30	109.5	D3-3	-	23.7	0.0	60.4	44.0	63.2	0.0	0.0	65.0	65.0	70	N	-	-	41.3	Y	N	N
R5422	1	22.5	D3-3	-	0.0	0.0	50.6	46.1	56.9	0.0	0.0	58.1	58.1	70	N	-	-	55.1	Y	N	N
R5422	2	25.5	D3-3	-	0.0	0.0	51.0	46.9	61.5	0.0	0.0	62.0	62.0	70	N	-	-	59.0	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
R5422	3	28.5	D3-3	-	0.0	0.0	51.3	47.6	64.0	0.0	0.0	64.3	64.3	70	N	-	-	61.3	Y	N	N
R5422	4	31.5	D3-3	-	0.0	0.0	51.7	48.0	64.6	0.0	0.0	64.9	64.9	70	N	-	-	61.9	Y	N	N
R5422	5	34.5	D3-3	-	0.0	0.0	52.1	48.2	64.7	0.0	0.0	65.0	65.0	70	N	-	-	62.0	Y	N	N
R5422	6	37.5	D3-3	-	0.0	0.0	52.5	48.3	64.7	0.0	0.0	65.0	65.0	70	N	-	-	62.0	Y	N	N
R5422	7	40.5	D3-3	-	0.0	0.0	52.8	48.3	64.6	0.0	0.0	65.0	65.0	70	N	-	-	62.0	Y	N	N
R5422	8	43.5	D3-3	-	0.0	0.0	53.1	48.4	64.5	0.0	0.0	64.9	64.9	70	N	-	-	61.9	Y	N	N
R5422	9	46.5	D3-3	-	0.0	0.0	53.3	48.4	64.3	0.0	0.0	64.8	64.8	70	N	-	-	61.8	Y	N	N
R5422	10	49.5	D3-3	-	0.0	0.0	53.6	48.4	64.2	0.0	0.0	64.7	64.7	70	N	-	-	61.7	Y	N	N
R5422	11	52.5	D3-3	-	0.0	0.0	53.8	48.4	64.1	0.0	0.0	64.6	64.6	70	N	-	-	61.6	Y	N	N
R5422	12	55.5	D3-3	-	0.0	0.0	54.0	48.3	63.9	0.0	0.0	64.4	64.4	70	N	-	-	61.4	Y	N	N
R5422	13	58.5	D3-3	-	0.0	0.0	54.2	48.3	63.7	0.0	0.0	64.3	64.3	70	N	-	-	61.3	Y	N	N
R5422	14	61.5	D3-3	-	0.0	0.0	54.4	48.2	63.6	0.0	0.0	64.2	64.2	70	N	-	-	61.2	Y	N	N
R5422	15	64.5	D3-3	-	0.0	0.0	54.5	48.1	63.4	0.0	0.0	64.1	64.1	70	N	-	-	61.1	Y	N	N
R5422	16	67.5	D3-3	-	0.0	0.0	54.7	48.1	63.3	0.0	0.0	64.0	64.0	70	N	-	-	61.0	Y	N	N
R5422	17	70.5	D3-3	-	0.0	0.0	54.8	48.1	63.1	0.0	0.0	63.8	63.8	70	N	-	-	60.8	Y	N	N
R5422	18	73.5	D3-3	-	0.0	0.0	54.9	48.0	63.0	0.0	0.0	63.7	63.7	70	N	-	-	60.7	Y	N	N
R5422	19	76.5	D3-3	-	0.0	0.0	55.1	48.1	62.8	0.0	0.0	63.6	63.6	70	N	-	-	60.6	Y	N	N
R5422	20	79.5	D3-3	-	0.0	0.0	55.2	48.4	62.7	0.0	0.0	63.6	63.6	70	N	-	-	60.6	Y	N	N
R5422	21	82.5	D3-3	-	0.0	0.0	55.4	49.4	62.5	0.0	0.0	63.5	63.5	70	N	-	-	60.5	Y	N	N
R5422	22	85.5	D3-3	-	0.0	0.0	55.7	50.1	62.4	0.0	0.0	63.5	63.5	70	N	-	-	60.5	Y	N	N
R5422	23	88.5	D3-3	-	0.0	0.0	56.1	50.2	62.3	0.0	0.0	63.4	63.4	70	N	-	-	60.4	Y	N	N
R5422	24	91.5	D3-3	-	0.0	0.0	57.0	50.2	62.1	0.0	0.0	63.5	63.5	70	N	-	-	60.5	Y	N	N
R5422	25	94.5	D3-3	-	0.0	0.0	58.3	50.1	62.0	0.0	0.0	63.8	63.8	70	N	-	-	60.8	Y	N	N
R5422	26	97.5	D3-3	-	0.0	0.0	59.4	50.0	61.9	0.0	0.0	64.0	64.0	70	N	-	-	61.0	Y	N	N
R5422	27	100.5	D3-3	-	0.0	0.0	60.1	50.0	61.8	0.0	0.0	64.2	64.2	70	N	-	-	61.2	Y	N	N
R5422	28	103.5	D3-3	-	0.0	0.0	60.4	49.9	61.7	0.0	0.0	64.3	64.3	70	N	-	-	61.3	Y	N	N
R5422	29	106.5	D3-3	-	0.0	0.0	60.6	49.9	61.6	0.0	0.0	64.3	64.3	70	N	-	-	61.3	Y	N	N
R5422	30	109.5	D3-3	-	0.0	0.0	60.7	49.9	61.4	0.0	0.0	64.2	64.2	70	N	-	-	61.2	Y	N	N
R5423	1	22.5	D3-3	-	22.5	0.0	50.8	21.2	61.0	0.0	0.0	61.4	61.4	70	N	-	-	38.9	Y	N	N
R5423	2	25.5	D3-3	-	22.5	0.0	51.1	21.2	64.8	0.0	0.0	65.0	65.0	70	N	-	-	42.5	Y	N	N
R5423	3	28.5	D3-3	-	22.5	0.0	51.4	21.2	66.0	0.0	0.0	66.2	66.2	70	N	-	-	43.7	Y	N	N
R5423	4	31.5	D3-3	-	22.5	0.0	51.9	21.2	66.2	0.0	0.0	66.4	66.4	70	N	-	-	43.9	Y	N	N
R5423	5	34.5	D3-3	-	22.5	0.0	52.3	21.2	66.2	0.0	0.0	66.4	66.4	70	N	-	-	43.9	Y	N	N
R5423	6	37.5	D3-3	-	22.5	0.0	52.6	21.2	66.1	0.0	0.0	66.3	66.3	70	N	-	-	43.8	Y	N	N
R5423	7	40.5	D3-3	-	22.4	0.0	53.0	21.2	65.9	0.0	0.0	66.2	66.2	70	N	-	-	43.8	Y	N	N
R5423	8	43.5	D3-3	-	22.4	0.0	53.3	21.1	65.8	0.0	0.0	66.0	66.0	70	N	-	-	43.6	Y	N	N
R5423	9	46.5	D3-3	-	22.4	0.0	53.6	21.2	65.6	0.0	0.0	65.9	65.9	70	N	-	-	43.5	Y	N	N
R5423	10	49.5	D3-3	-	22.4	0.0	53.8	21.3	65.4	0.0	0.0	65.7	65.7	70	N	-	-	43.3	Y	N	N
R5423	11	52.5	D3-3	-	22.4	0.0	54.0	21.6	65.3	0.0	0.0	65.6	65.6	70	N	-	-	43.2	Y	N	N
R5423	12	55.5	D3-3	-	22.4	0.0	54.2	22.0	65.1	0.0	0.0	65.4	65.4	70	N	-	-	43.0	Y	N	N
R5423	13	58.5	D3-3	-	22.4	0.0	54.4	23.3	64.9	0.0	0.0	65.3	65.3	70	N	-	-	42.9	Y	N	N
R5423	14	61.5	D3-3	-	22.4	0.0	54.5	24.8	64.8	0.0	0.0	65.2	65.2	70	N	-	-	42.8	Y	N	N
R5423	15	64.5	D3-3	-	22.4	0.0	54.7	26.4	64.6	0.0	0.0	65.0	65.0	70	N	-	-	42.6	Y	N	N
R5423	16	67.5	D3-3	-	22.4	0.0	54.8	28.1	64.5	0.0	0.0	64.9	64.9	70	N	-	-	42.5	Y	N	N
R5423	17	70.5	D3-3	-	22.3	0.0	54.9	30.1	64.3	0.0	0.0	64.8	64.8	70	N	-	-	42.5	Y	N	N
R5423	18	73.5	D3-3	-	22.3	0.0	55.0	32.1	64.2	0.0	0.0	64.7	64.7	70	N	-	-	42.4	Y	N	N
R5423	19	76.5	D3-3	-	22.3	0.0	55.1	34.5	64.0	0.0	0.0	64.6	64.6	70	N	-	-	42.3	Y	N	N
R5423	20	79.5	D3-3	-	22.3	0.0	55.3	37.2	63.9	0.0	0.0	64.5	64.5	70	N	-	-	42.2	Y	N	N
R5423	21	82.5	D3-3	-	22.2	0.0	55.5	41.1	63.8	0.0	0.0	64.4	64.4	70	N	-	-	42.2	Y	N	N
R5423	22	85.5	D3-3	-	22.3	0.0	55.8	45.2	63.6	0.0	0.0	64.4	64.4	70	N	-	-	42.1	Y	N	N
R5423	23	88.5	D3-3	-	22.1	0.0	56.3	47.5	63.5	0.0	0.0	64.4	64.4	70	N	-	-	42.3	Y	N	N
R5423	24	91.5	D3-3	-	22.3	0.0	57.4	49.2	63.4	0.0	0.0	64.5	64.5	70	N	-	-	42.2	Y	N	N
R5423	25	94.5	D3-3	-	22.3	0.0	58.9	50.0	63.3	0.0	0.0	64.8	64.8	70	N	-	-	42.5	Y	N	N
R5423	26	97.5	D3-3	-	22.4	0.0	59.8	50.4	63.2	0.0	0.0	65.0	65.0	70	N	-	-	42.6	Y	N	N
R5423	27	100.5	D3-3	-	22.4	0.0	60.2	50.5	63.0	0.0	0.0	65.0	65.0	70	N	-	-	42.6	Y	N	N
R5423	28	103.5	D3-3	-	22.4	0.0	60.3	50.5	62.9	0.0	0.0	65.0	65.0	70	N	-	-	42.6	Y	N	N
R5423	29	106.5	D3-3	-	22.5	0.0	60.4	50.5	62.8	0.0	0.0	64.9	64.9	70	N	-	-	42.4	Y	N	N
R5423	30	109.5	D3-3	-	22.5	0.0	60.4	50.5	62.7	0.0	0.0	64.9	64.9	70	N	-	-	42.4	Y	N	N
R5424	1	22.5	D3-3	-	0.0	0.0	49.2	21.5	62.8	0.0	0.0	63.0	63.0	70	N	-	-	60.0	Y	N	N
R5424	2	25.5	D3-3	-	0.0	0.0	49.5	21.5	66.7	0.0	0.0	66.8	66.8	70	N	-	-	63.8	Y	N	N
R5424	3	28.5	D3-3	-	0.0	0.0	49.9	21.5	67.2	0.0	0.0	67.3	67.3	70	N	-	-	64.3	Y	N	N
R5424	4	31.5	D3-3	-	0.0	0.0	50.3	21.5	67.2	0.0	0.0	67.3	67.3	70	N	-	-	64.3	Y	N	N
R5424	5	34.5	D3-3	-	0.0	0.0	50.7	21.5	66.9	0.0	0.0	67.0	67.0	70	N	-	-	64.0	Y	N	N
R5424	6	37.5	D3-3	-	0.0	0.0	51.1	21.4	66.7	0.0	0.0	66.9	66.9	70	N	-	-	63.9	Y	N	N
R5424	7	40.5	D3-3	-	0.0	0.0	51.3	21.4	66.5	0.0	0.0	66.6	66.6	70	N	-	-	63.6	Y	N	N
R5424	8	43.5	D3-3	-	0.0	0.0	51.6	21.4	66.3	0.0	0.0	66.5	66.5	70	N	-	-	63.5	Y	N	N
R5424	9	46.5	D3-3	-	0.0	0.0	52.0	21.4	66.1	0.0	0.0	66.3	66.3	70	N	-	-	63.3	Y	N	N
R5424	10	49.5	D3-3	-	0.0	0.0	52.2	21.6	65.9	0.0	0.0	66.1	66.1	70	N	-	-	63.1	Y	N	N
R5424	11	52.5	D3-3	-	0.0	0.0	52.4	21.9	65.7	0.0	0.0	65.9	65.9	70	N	-	-	62.9	Y	N	N
R5424	12	55.5	D3-3	-	0.0	0.0	52.6	22.6	65.5	0.0	0.0	65.7	65.7	70	N	-	-	62.7	Y	N	N
R5424	13	58.5	D3-3	-	0.0	0.0	52.8	24.0	65.3	0.0	0.0	65.6	65.6	70	N	-	-	62.6	Y	N	N
R5424	14	61.5	D3-3	-	0.0	0.0	53.0	25.6	65.1	0.0	0.0	65.4	65.4	70	N	-	-	62.4	Y	N	N
R5424	15	64.5	D3-3	-	0.0	0.0	53.1	27.3	65.0	0.0	0.0	65.2	65.2	70	N	-	-	62.2	Y	N	N
R5424	16	67.5	D3-3	-	0.0	0.0	53.2	29.1	64.8	0.0	0.0	65.1	65.1	70	N	-	-	62.1	Y	N	N
R5424	17	70.5	D3-3	-	0.0	0.0	53.4	31.1	64.6	0.0	0.0	65.0	65.0	70	N	-	-	62.0	Y	N	N
R5424	18	73.5	D3-3	-	0.0	0.0	53.6	33.4	64.5	0.0	0.0	64.8	64.8	70	N	-	-	61.8	Y	N	N
R5424	19	76.5	D3-3	-	0.0	0.0	53.7	35.8	64.3	0.0	0.0	64.7	64.7	70	N	-	-	61.7	Y	N	N
R5424	20	79.5	D3-3	-	0.0	0.0	54.0	38.7	64.1	0.0	0.0	64.5	64.5	70	N	-	-	61.5	Y	N	N
R5424	21	82.5	D3-3	-	0.0	0.0	54.3	42.9	64.0	0.0	0.0	64.5	64.5	70	N	-	-	61.5	Y	N	N
R5424	22	85.5	D3-3	-	0.0	0.0	54.8	47.2	63.8	0.0	0.0	64.4	64.4	70	N	-	-	61.4	Y	N	N
R5424	23	88.5	D3-3	-	0.0	0.0	55.6	49.6	63.7	0.0	0.0	64.5	64.5	70	N	-	-	61.5	Y	N	N
R5424	24	91.5	D3-3	-	0.0	0.0	57.1	50.5	63.6	0.0	0.0	64.6	64.6	70	N	-	-	61.6	Y	N	N
R5424	25	94.5	D3-3	-	0.0	0.0	58.7	50.8	63.4	0.0	0.0	64.9	64.9	70	N	-	-	61.9	Y	N	N
R5424	26	97.5	D3-3	-	0.0	0.0	59.7	50.9	63.3	0.0	0.0	65.1	65.1	70	N	-	-	62.1	Y	N	N
R5424	27	100.5	D3-3	-	0.0	0.0	60.1	50.9	63.2	0.0	0.0	65.1	65.1	70	N	-	-	62.1	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT													
							New Roads[2]									Check Project Impact Significance		Check Direct Mitigation			
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
R5424	28	103.5	D3-3	-	0.0	0.0	60.3	50.9	63.1	0.0	0.0	65.1	65.1	70	N	-	-	62.1	Y	N	N
R5424	29	106.5	D3-3	-	0.0	0.0	60.4	50.8	63.0	0.0	0.0	65.1	65.1	70	N	-	-	62.1	Y	N	N
R5424	30	109.5	D3-3	-	0.0	0.0	60.6	50.8	62.8	0.0	0.0	65.0	65.0	70	N	-	-	62.0	Y	N	N
R5441	1	22.5	D3-4	-	0.0	0.0	41.8	41.7	62.5	0.0	0.0	62.6	62.6	70	N	-	-	59.6	Y	N	N
R5441	2	25.5	D3-4	-	0.0	0.0	42.1	43.2	66.8	0.0	0.0	66.8	66.8	70	N	-	-	63.8	Y	N	N
R5441	3	28.5	D3-4	-	0.0	0.0	42.5	44.0	67.7	0.0	0.0	67.7	67.7	70	N	-	-	64.7	Y	N	N
R5441	4	31.5	D3-4	-	0.0	0.0	43.0	44.5	67.7	0.0	0.0	67.7	67.7	70	N	-	-	64.7	Y	N	N
R5441	5	34.5	D3-4	-	0.0	0.0	43.0	44.8	67.5	0.0	0.0	67.6	67.6	70	N	-	-	64.6	Y	N	N
R5441	6	37.5	D3-4	-	0.0	0.0	43.2	45.0	67.3	0.0	0.0	67.3	67.3	70	N	-	-	64.3	Y	N	N
R5441	7	40.5	D3-4	-	0.0	0.0	43.3	45.1	67.1	0.0	0.0	67.1	67.1	70	N	-	-	64.1	Y	N	N
R5441	8	43.5	D3-4	-	0.0	0.0	43.6	45.2	66.8	0.0	0.0	66.9	66.9	70	N	-	-	63.9	Y	N	N
R5441	9	46.5	D3-4	-	0.0	0.0	43.8	45.2	66.6	0.0	0.0	66.7	66.7	70	N	-	-	63.7	Y	N	N
R5441	10	49.5	D3-4	-	0.0	0.0	44.1	45.2	66.4	0.0	0.0	66.5	66.5	70	N	-	-	63.5	Y	N	N
R5441	11	52.5	D3-4	-	0.0	0.0	44.4	45.2	66.2	0.0	0.0	66.2	66.2	70	N	-	-	63.2	Y	N	N
R5441	12	55.5	D3-4	-	0.0	0.0	44.6	45.2	66.0	0.0	0.0	66.0	66.0	70	N	-	-	63.0	Y	N	N
R5441	13	58.5	D3-4	-	0.0	0.0	44.9	45.2	65.8	0.0	0.0	65.8	65.8	70	N	-	-	62.8	Y	N	N
R5441	14	61.5	D3-4	-	0.0	0.0	45.2	45.2	65.6	0.0	0.0	65.7	65.7	70	N	-	-	62.7	Y	N	N
R5441	15	64.5	D3-4	-	0.0	0.0	45.5	45.2	65.4	0.0	0.0	65.5	65.5	70	N	-	-	62.5	Y	N	N
R5441	16	67.5	D3-4	-	0.0	0.0	45.8	45.2	65.2	0.0	0.0	65.3	65.3	70	N	-	-	62.3	Y	N	N
R5441	17	70.5	D3-4	-	0.0	0.0	46.1	45.2	65.0	0.0	0.0	65.1	65.1	70	N	-	-	62.1	Y	N	N
R5441	18	73.5	D3-4	-	0.0	0.0	46.5	45.2	64.9	0.0	0.0	65.0	65.0	70	N	-	-	62.0	Y	N	N
R5441	19	76.5	D3-4	-	0.0	0.0	46.9	45.2	64.7	0.0	0.0	64.8	64.8	70	N	-	-	61.8	Y	N	N
R5441	20	79.5	D3-4	-	0.0	0.0	47.4	45.2	64.5	0.0	0.0	64.7	64.7	70	N	-	-	61.7	Y	N	N
R5441	21	82.5	D3-4	-	0.0	0.0	47.9	45.2	64.4	0.0	0.0	64.5	64.5	70	N	-	-	61.5	Y	N	N
R5441	22	85.5	D3-4	-	0.0	0.0	48.6	45.2	64.2	0.0	0.0	64.4	64.4	70	N	-	-	61.4	Y	N	N
R5441	23	88.5	D3-4	-	0.0	0.0	49.3	45.4	64.1	0.0	0.0	64.3	64.3	70	N	-	-	61.3	Y	N	N
R5441	24	91.5	D3-4	-	0.0	0.0	50.3	45.6	63.9	0.0	0.0	64.2	64.2	70	N	-	-	61.2	Y	N	N
R5441	25	94.5	D3-4	-	0.0	0.0	51.8	46.0	63.8	0.0	0.0	64.1	64.1	70	N	-	-	61.1	Y	N	N
R5441	26	97.5	D3-4	-	0.0	0.0	53.5	46.7	63.7	0.0	0.0	64.2	64.2	70	N	-	-	61.2	Y	N	N
R5441	27	100.5	D3-4	-	0.0	0.0	55.4	47.5	63.5	0.0	0.0	64.3	64.3	70	N	-	-	61.3	Y	N	N
R5441	28	103.5	D3-4	-	0.0	0.0	57.0	48.4	63.4	0.0	0.0	64.4	64.4	70	N	-	-	61.4	Y	N	N
R5441	29	106.5	D3-4	-	0.0	0.0	58.2	48.8	63.3	0.0	0.0	64.6	64.6	70	N	-	-	61.6	Y	N	N
R5441	30	109.5	D3-4	-	0.0	0.0	59.0	49.0	63.2	0.0	0.0	64.7	64.7	70	N	-	-	61.7	Y	N	N
R5442	1	22.5	D3-4	-	17.0	0.0	37.3	4.0	55.5	0.0	0.0	55.6	55.6	70	N	-	-	38.5	Y	N	N
R5442	2	25.5	D3-4	-	17.0	0.0	37.6	4.0	58.2	0.0	0.0	58.3	58.3	70	N	-	-	41.2	Y	N	N
R5442	3	28.5	D3-4	-	17.0	0.0	37.9	4.0	60.8	0.0	0.0	60.9	60.9	70	N	-	-	43.8	Y	N	N
R5442	4	31.5	D3-4	-	17.0	0.0	38.4	4.0	63.0	0.0	0.0	63.0	63.0	70	N	-	-	45.9	Y	N	N
R5442	5	34.5	D3-4	-	17.0	0.0	38.9	4.0	64.1	0.0	0.0	64.1	64.1	70	N	-	-	47.0	Y	N	N
R5442	6	37.5	D3-4	-	17.0	0.0	39.5	4.0	64.6	0.0	0.0	64.6	64.6	70	N	-	-	47.5	Y	N	N
R5442	7	40.5	D3-4	-	16.9	0.0	40.3	4.0	64.8	0.0	0.0	64.8	64.8	70	N	-	-	47.8	Y	N	N
R5442	8	43.5	D3-4	-	16.9	0.0	41.2	4.0	64.7	0.0	0.0	64.7	64.7	70	N	-	-	47.7	Y	N	N
R5442	9	46.5	D3-4	-	16.9	0.0	42.0	4.0	64.6	0.0	0.0	64.7	64.7	70	N	-	-	47.7	Y	N	N
R5442	10	49.5	D3-4	-	16.9	0.0	42.8	4.0	64.5	0.0	0.0	64.6	64.6	70	N	-	-	47.6	Y	N	N
R5442	11	52.5	D3-4	-	16.9	0.0	43.4	3.9	64.4	0.0	0.0	64.4	64.4	70	N	-	-	47.4	Y	N	N
R5442	12	55.5	D3-4	-	16.9	0.0	43.9	3.9	64.3	0.0	0.0	64.3	64.3	70	N	-	-	47.3	Y	N	N
R5442	13	58.5	D3-4	-	16.9	0.0	44.2	3.9	64.1	0.0	0.0	64.2	64.2	70	N	-	-	47.2	Y	N	N
R5442	14	61.5	D3-4	-	16.9	0.0	44.5	3.9	64.0	0.0	0.0	64.0	64.0	70	N	-	-	47.0	Y	N	N
R5442	15	64.5	D3-4	-	16.9	0.0	44.7	3.9	63.9	0.0	0.0	63.9	63.9	70	N	-	-	46.9	Y	N	N
R5442	16	67.5	D3-4	-	16.8	0.0	44.9	3.9	63.7	0.0	0.0	63.8	63.8	70	N	-	-	46.9	Y	N	N
R5442	17	70.5	D3-4	-	16.8	0.0	45.1	3.9	63.6	0.0	0.0	63.7	63.7	70	N	-	-	46.8	Y	N	N
R5442	18	73.5	D3-4	-	16.8	0.0	45.4	3.9	63.5	0.0	0.0	63.5	63.5	70	N	-	-	46.6	Y	N	N
R5442	19	76.5	D3-4	-	16.8	0.0	45.6	3.9	63.4	0.0	0.0	63.4	63.4	70	N	-	-	46.5	Y	N	N
R5442	20	79.5	D3-4	-	16.8	0.0	45.9	3.9	63.2	0.0	0.0	63.3	63.3	70	N	-	-	46.4	Y	N	N
R5442	21	82.5	D3-4	-	16.8	0.0	46.2	3.9	63.1	0.0	0.0	63.2	63.2	70	N	-	-	46.3	Y	N	N
R5442	22	85.5	D3-4	-	16.7	0.0	46.4	3.9	63.0	0.0	0.0	63.1	63.1	70	N	-	-	46.3	Y	N	N
R5442	23	88.5	D3-4	-	16.7	0.0	46.8	3.9	62.9	0.0	0.0	63.0	63.0	70	N	-	-	46.2	Y	N	N
R5442	24	91.5	D3-4	-	16.6	0.0	47.2	3.9	62.8	0.0	0.0	62.9	62.9	70	N	-	-	46.2	Y	N	N
R5442	25	94.5	D3-4	-	16.7	0.0	47.8	4.2	62.7	0.0	0.0	62.8	62.8	70	N	-	-	46.0	Y	N	N
R5442	26	97.5	D3-4	-	17.7	0.0	48.5	4.5	62.6	0.0	0.0	62.7	62.7	70	N	-	-	44.9	Y	N	N
R5442	27	100.5	D3-4	-	18.7	0.0	49.6	4.7	62.5	0.0	0.0	62.7	62.7	70	N	-	-	43.9	Y	N	N
R5442	28	103.5	D3-4	-	20.0	0.0	50.8	4.8	62.4	0.0	0.0	62.7	62.7	70	N	-	-	42.7	Y	N	N
R5442	29	106.5	D3-4	-	21.4	0.0	51.9	4.9	62.3	0.0	0.0	62.6	62.6	70	N	-	-	41.2	Y	N	N
R5442	30	109.5	D3-4	-	23.0	0.0	52.4	4.9	62.2	0.0	0.0	62.6	62.6	70	N	-	-	39.6	Y	N	N
R5443	1	22.5	D3-4	-	0.0	0.0	37.5	17.2	60.0	0.0	0.0	60.1	60.1	70	N	-	-	57.1	Y	N	N
R5443	2	25.5	D3-4	-	0.0	0.0	37.7	17.1	62.1	0.0	0.0	62.1	62.1	70	N	-	-	59.1	Y	N	N
R5443	3	28.5	D3-4	-	0.0	0.0	37.9	17.1	62.9	0.0	0.0	62.9	62.9	70	N	-	-	59.9	Y	N	N
R5443	4	31.5	D3-4	-	0.0	0.0	38.1	17.1	63.1	0.0	0.0	63.1	63.1	70	N	-	-	60.1	Y	N	N
R5443	5	34.5	D3-4	-	0.0	0.0	38.3	17.1	63.3	0.0	0.0	63.3	63.3	70	N	-	-	60.3	Y	N	N
R5443	6	37.5	D3-4	-	0.0	0.0	38.5	17.1	63.7	0.0	0.0	63.7	63.7	70	N	-	-	60.7	Y	N	N
R5443	7	40.5	D3-4	-	0.0	0.0	38.8	17.0	64.0	0.0	0.0	64.0	64.0	70	N	-	-	61.0	Y	N	N
R5443	8	43.5	D3-4	-	0.0	0.0	39.1	17.2	64.2	0.0	0.0	64.2	64.2	70	N	-	-	61.2	Y	N	N
R5443	9	46.5	D3-4	-	0.0	0.0	39.4	17.2	64.3	0.0	0.0	64.3	64.3	70	N	-	-	61.3	Y	N	N
R5443	10	49.5	D3-4	-	0.0	0.0	39.7	17.1	64.3	0.0	0.0	64.4	64.4	70	N	-	-	61.4	Y	N	N
R5443	11	52.5	D3-4	-	0.0	0.0	40.0	17.0	64.3	0.0	0.0	64.3	64.3	70	N	-	-	61.3	Y	N	N
R5443	12	55.5	D3-4	-	0.0	0.0	40.3	17.2	64.2	0.0	0.0	64.2	64.2	70	N	-	-	61.2	Y	N	N
R5443	13	58.5	D3-4	-	0.0	0.0	40.6	17.4	64.1	0.0	0.0	64.1	64.1	70	N	-	-	61.1	Y	N	N
R5443	14	61.5	D3-4	-	0.0	0.0	40.9	17.4	64.0	0.0	0.0	64.1	64.1	70	N	-	-	61.1	Y	N	N
R5443	15	64.5	D3-4	-	0.0	0.0	41.4	17.4	63.9	0.0	0.0	63.9	63.9	70	N	-	-	60.9	Y	N	N
R5443	16	67.5	D3-4	-	0.0	0.0	41.9	17.3	63.8	0.0	0.0	63.8	63.8	70	N	-	-	60.8	Y	N	N
R5443	17	70.5	D3-4	-	0.0	0.0	42.6	17.3	63.7	0.0	0.0	63.7	63.7	70	N	-	-	60.7	Y	N	N
R5443	18	73.5	D3-4	-	0.0	0.0	42.6	17.3	63.5	0.0	0.0	63.6	63.6	70	N	-	-	60.6	Y	N	N
R5443	19	76.5	D3-4	-	0.0	0.0	43.1	17.3	63.4	0.0	0.0	63.5	63.5	70	N	-	-	60.5	Y	N	N
R5443	20	79.5	D3-4	-	0.0	0.0	43.7	17.3	63.3	0.0	0.0	63.3	63.3	70	N	-	-	60.3	Y	N	N
R5443	21	82.5	D3-4	-	0.0	0.0	44.3	17.3	63.2	0.0	0.0	63.2	63.2	70	N	-	-	60.2	Y	N	N
R5443	22	85.5	D3-4	-	0.0	0.0	44.8	17.2	63.1	0.0	0.0	63.1	63.1	70	N	-	-	60.1	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	Mitigation Measures Required [4,5] (Y/N)
							dB (A)													
R5443	23	88.5	D3-4	-	0.0	0.0	45.1	17.2	62.9	0.0	0.0	63.0	63.0	70	N	-	-	60.0	Y	N	N
R5443	24	91.5	D3-4	-	0.0	0.0	45.4	17.2	62.8	0.0	0.0	62.9	62.9	70	N	-	-	59.9	Y	N	N
R5443	25	94.5	D3-4	-	0.0	0.0	45.7	17.4	62.7	0.0	0.0	62.8	62.8	70	N	-	-	59.8	Y	N	N
R5443	26	97.5	D3-4	-	0.0	0.0	45.9	17.7	62.6	0.0	0.0	62.7	62.7	70	N	-	-	59.7	Y	N	N
R5443	27	100.5	D3-4	-	0.0	0.0	46.2	18.6	62.5	0.0	0.0	62.6	62.6	70	N	-	-	59.6	Y	N	N
R5443	28	103.5	D3-4	-	0.0	0.0	46.4	19.7	62.4	0.0	0.0	62.5	62.5	70	N	-	-	59.5	Y	N	N
R5443	29	106.5	D3-4	-	0.0	0.0	46.6	21.0	62.3	0.0	0.0	62.4	62.4	70	N	-	-	59.4	Y	N	N
R5443	30	109.5	D3-4	-	0.0	0.0	46.8	22.3	62.2	0.0	0.0	62.3	62.3	70	N	-	-	59.3	Y	N	N
R5444	1	22.5	D3-4	-	50.6	0.0	41.4	5.9	66.9	0.0	0.0	66.9	67.0	70	N	-	-	16.4	Y	N	N
R5444	2	25.5	D3-4	-	50.8	0.0	42.0	5.9	66.9	0.0	0.0	66.9	67.0	70	N	-	-	16.2	Y	N	N
R5444	3	28.5	D3-4	-	51.0	0.0	42.6	5.9	66.8	0.0	0.0	66.8	66.9	70	N	-	-	15.9	Y	N	N
R5444	4	31.5	D3-4	-	51.1	0.0	43.5	5.9	66.7	0.0	0.0	66.7	66.8	70	N	-	-	15.7	Y	N	N
R5444	5	34.5	D3-4	-	51.3	0.0	44.5	5.9	66.6	0.0	0.0	66.6	66.7	70	N	-	-	15.4	Y	N	N
R5444	6	37.5	D3-4	-	51.4	0.0	45.5	5.9	66.5	0.0	0.0	66.5	66.6	70	N	-	-	15.2	Y	N	N
R5444	7	40.5	D3-4	-	51.5	0.0	46.4	5.9	66.3	0.0	0.0	66.4	66.5	70	N	-	-	15.0	Y	N	N
R5444	8	43.5	D3-4	-	51.7	0.0	47.5	5.9	66.2	0.0	0.0	66.3	66.4	70	N	-	-	14.7	Y	N	N
R5444	9	46.5	D3-4	-	51.9	0.0	48.3	5.9	66.1	0.0	0.0	66.2	66.3	70	N	-	-	14.4	Y	N	N
R5444	10	49.5	D3-4	-	52.0	0.0	48.8	5.9	66.0	0.0	0.0	66.0	66.2	70	N	-	-	14.2	Y	N	N
R5444	11	52.5	D3-4	-	52.1	0.0	49.3	5.9	65.8	0.0	0.0	65.9	66.1	70	N	-	-	14.0	Y	N	N
R5444	12	55.5	D3-4	-	52.1	0.0	49.7	5.9	65.7	0.0	0.0	65.8	66.0	70	N	-	-	13.9	Y	N	N
R5444	13	58.5	D3-4	-	52.2	0.0	50.0	5.9	65.5	0.0	0.0	65.7	65.8	70	N	-	-	13.6	Y	N	N
R5444	14	61.5	D3-4	-	52.2	0.0	50.3	5.9	65.4	0.0	0.0	65.5	65.7	70	N	-	-	13.5	Y	N	N
R5444	15	64.5	D3-4	-	52.2	0.0	50.6	5.9	65.3	0.0	0.0	65.4	65.6	70	N	-	-	13.4	Y	N	N
R5444	16	67.5	D3-4	-	52.2	0.0	50.8	5.9	65.1	0.0	0.0	65.3	65.5	70	N	-	-	13.3	Y	N	N
R5444	17	70.5	D3-4	-	52.2	0.0	51.0	5.9	65.0	0.0	0.0	65.2	65.4	70	N	-	-	13.2	Y	N	N
R5444	18	73.5	D3-4	-	52.2	0.0	51.3	5.8	64.9	0.0	0.0	65.1	65.3	70	N	-	-	13.1	Y	N	N
R5444	19	76.5	D3-4	-	52.2	0.0	51.5	5.8	64.7	0.0	0.0	64.9	65.2	70	N	-	-	13.0	Y	N	N
R5444	20	79.5	D3-4	-	52.2	0.0	51.7	5.8	64.6	0.0	0.0	64.8	65.1	70	N	-	-	12.9	Y	N	N
R5444	21	82.5	D3-4	-	52.2	0.0	52.0	5.8	64.5	0.0	0.0	64.7	65.0	70	N	-	-	12.8	Y	N	N
R5444	22	85.5	D3-4	-	52.2	0.0	52.2	5.8	64.4	0.0	0.0	64.6	64.9	70	N	-	-	12.7	Y	N	N
R5444	23	88.5	D3-4	-	52.2	0.0	52.4	5.8	64.2	0.0	0.0	64.5	64.8	70	N	-	-	12.6	Y	N	N
R5444	24	91.5	D3-4	-	52.2	0.0	52.6	5.8	64.1	0.0	0.0	64.4	64.7	70	N	-	-	12.5	Y	N	N
R5444	25	94.5	D3-4	-	52.1	0.0	52.7	5.8	64.0	0.0	0.0	64.3	64.6	70	N	-	-	12.5	Y	N	N
R5444	26	97.5	D3-4	-	52.1	0.0	52.9	5.7	63.9	0.0	0.0	64.2	64.5	70	N	-	-	12.4	Y	N	N
R5444	27	100.5	D3-4	-	52.1	0.0	53.0	5.7	63.8	0.0	0.0	64.1	64.4	70	N	-	-	12.3	Y	N	N
R5444	28	103.5	D3-4	-	52.1	0.0	53.1	5.8	63.7	0.0	0.0	64.0	64.3	70	N	-	-	12.2	Y	N	N
R5444	29	106.5	D3-4	-	52.1	0.0	53.2	5.9	63.6	0.0	0.0	64.0	64.2	70	N	-	-	12.1	Y	N	N
R5444	30	109.5	D3-4	-	52.1	0.0	53.3	5.9	63.5	0.0	0.0	63.9	64.1	70	N	-	-	12.0	Y	N	N
R5481	1	23.0	D3-7	-	54.5	0.0	43.2	7.6	64.8	0.0	0.0	64.9	65.3	70	N	-	-	10.8	Y	N	N
R5481	2	26.0	D3-7	-	55.2	0.0	43.3	7.5	64.8	0.0	0.0	64.8	65.3	70	N	-	-	10.1	Y	N	N
R5481	3	29.0	D3-7	-	56.0	0.0	43.5	7.5	64.8	0.0	0.0	64.9	65.4	70	N	-	-	9.4	Y	N	N
R5481	4	32.0	D3-7	-	56.7	0.0	43.9	7.5	64.8	0.0	0.0	64.8	65.5	70	N	-	-	8.8	Y	N	N
R5481	5	35.0	D3-7	-	57.4	0.0	44.3	7.5	64.8	0.0	0.0	64.8	65.5	70	N	-	-	8.1	Y	N	N
R5481	6	38.0	D3-7	-	57.7	0.0	44.8	7.5	64.7	0.0	0.0	64.8	65.5	70	N	-	-	7.8	Y	N	N
R5481	7	41.0	D3-7	-	57.9	0.0	45.2	7.5	64.7	0.0	0.0	64.7	65.5	70	N	-	-	7.6	Y	N	N
R5481	8	44.0	D3-7	-	57.9	0.0	45.4	7.5	64.6	0.0	0.0	64.6	65.5	70	N	-	-	7.6	Y	N	N
R5481	9	47.0	D3-7	-	57.9	0.0	45.6	7.5	64.5	0.0	0.0	64.5	65.4	70	N	-	-	7.5	Y	N	N
R5481	10	50.0	D3-7	-	57.9	0.0	45.8	7.5	64.4	0.0	0.0	64.5	65.3	70	N	-	-	7.4	Y	N	N
R5481	11	53.0	D3-7	-	57.9	0.0	46.0	7.5	64.3	0.0	0.0	64.3	65.2	70	N	-	-	7.3	Y	N	N
R5481	12	56.0	D3-7	-	57.8	0.0	46.1	7.4	64.2	0.0	0.0	64.2	65.1	70	N	-	-	7.3	Y	N	N
R5481	13	59.0	D3-7	-	57.8	0.0	46.3	7.4	64.1	0.0	0.0	64.1	65.1	70	N	-	-	7.3	Y	N	N
R5481	14	62.0	D3-7	-	57.8	0.0	46.4	7.4	64.0	0.0	0.0	64.0	65.0	70	N	-	-	7.2	Y	N	N
R5481	15	65.0	D3-7	-	57.7	0.0	46.6	7.4	63.9	0.0	0.0	64.0	64.9	70	N	-	-	7.2	Y	N	N
R5481	16	68.0	D3-7	-	57.7	0.0	46.7	7.4	63.8	0.0	0.0	63.9	64.8	70	N	-	-	7.1	Y	N	N
R5481	17	71.0	D3-7	-	57.6	0.0	46.9	7.4	63.6	0.0	0.0	63.7	64.7	70	N	-	-	7.1	Y	N	N
R5481	18	74.0	D3-7	-	57.6	0.0	47.1	7.3	63.5	0.0	0.0	63.6	64.6	70	N	-	-	7.0	Y	N	N
R5481	19	77.0	D3-7	-	57.6	0.0	47.4	7.3	63.4	0.0	0.0	63.5	64.5	70	N	-	-	6.9	Y	N	N
R5481	20	80.0	D3-7	-	57.5	0.0	47.5	7.3	63.3	0.0	0.0	63.4	64.4	70	N	-	-	6.9	Y	N	N
R5481	21	83.0	D3-7	-	57.5	0.0	47.7	7.3	63.2	0.0	0.0	63.4	64.4	70	N	-	-	6.9	Y	N	N
R5481	22	86.0	D3-7	-	57.4	0.0	47.9	7.2	63.2	0.0	0.0	63.3	64.3	70	N	-	-	6.9	Y	N	N
R5481	23	89.0	D3-7	-	57.4	0.0	48.2	7.2	63.1	0.0	0.0	63.2	64.2	70	N	-	-	6.8	Y	N	N
R5481	24	92.0	D3-7	-	57.3	0.0	48.5	7.2	63.0	0.0	0.0	63.1	64.1	70	N	-	-	6.8	Y	N	N
R5481	25	95.0	D3-7	-	57.3	0.0	48.7	7.2	62.9	0.0	0.0	63.0	64.1	70	N	-	-	6.8	Y	N	N
R5481	26	98.0	D3-7	-	57.3	0.0	48.9	7.0	62.8	0.0	0.0	62.9	64.0	70	N	-	-	6.7	Y	N	N
R5481	27	101.0	D3-7	-	57.2	0.0	49.1	6.9	62.7	0.0	0.0	62.9	63.9	70	N	-	-	6.7	Y	N	N
R5481	28	104.0	D3-7	-	57.2	0.0	49.3	7.1	62.6	0.0	0.0	62.8	63.9	70	N	-	-	6.7	Y	N	N
R5481	29	107.0	D3-7	-	57.2	0.0	49.4	7.2	62.5	0.0	0.0	62.7	63.8	70	N	-	-	6.6	Y	N	N
R5481	30	110.0	D3-7	-	57.1	0.0	49.5	7.2	62.4	0.0	0.0	62.7	63.7	70	N	-	-	6.6	Y	N	N
R5541	1	10.5	D3-12	-	51.9	0.0	38.5	9.0	61.2	0.0	0.0	61.2	61.7	65	N	-	-	9.8	Y	N	N
R5541	2	13.2	D3-12	-	53.3	0.0	38.5	9.1	61.2	0.0	0.0	61.2	61.9	65	N	-	-	8.6	Y	N	N
R5541	3	15.9	D3-12	-	54.4	0.0	38.5	9.1	61.2	0.0	0.0	61.2	62.1	65	N	-	-	7.7	Y	N	N
R5541	4	18.6	D3-12	-	55.4	0.0	38.5	9.1	61.2	0.0	0.0	61.2	62.2	65	N	-	-	6.8	Y	N	N
R5541	5	21.3	D3-12	-	56.6	0.0	38.5	9.1	61.2	0.0	0.0	61.3	62.5	65	N	-	-	5.9	Y	N	N
R5541	6	24.0	D3-12	-	58.0	0.0	38.5	9.1	61.2	0.0	0.0	61.3	63.0	65	N	-	-	5.0	Y	N	N
R5541	7	26.7	D3-12	-	58.9	0.0	38.5	9.1	61.3	0.0	0.0	61.3	63.3	65	N	-	-	4.4	Y	N	N
R5541	8	29.4	D3-12	-	59.7	0.0	38.5	9.0	61.3	0.0	0.0	61.3	63.6	65	N	-	-	3.9	Y	N	N
R5836	1	12.8	Pui Ling School	76.9	74.9	0.0	11.1	40.4	0.0	0.0	0.0	40.4	74.9	65	Y	-2.0	N	0.0	N	N	N
R5836	2	16.8	Pui Ling School	76.9	74.8	0.0	11.1	40.4	0.0	0.0	0.0	40.4	74.8	65	Y	-2.1	N	0.0	N	N	N
R5836	3	20.8	Pui Ling School	76.8	74.8	0.0	11.0	40.4	0.0	0.0	0.0	40.4	74.8	65	Y	-2.0	N	0.0	N	N	N
R6321	1	31.4	Regentville	77	75.1	0.0	54.7	53.8	0.0	0.0	0.0	57.3	75.2	70	Y	-1.8	N	0.1	N	N	N
R6321	2	34.4	Regentville	76.9	75.0	0.0	54.9	53.6	0.0	0.0	0.0	57.3	75.0	70	Y	-1.9	N	0.0	N	N	N
R6321	3	37.4	Regentville	76.7	74.8	0.0	55.1	53.5	0.0	0.0	0.0	57.4	74.9	70	Y	-1.8	N	0.1	N	N	N
R6321	4	40.4	Regentville	76.6	74.7	0.0	55.5	53.3	0.0	0.0	0.0	57.5	74.7	70	Y	-1.9	N	0.0	N	N	N
R6321	5	43.4	Regentville	76.4	74.5	0.0	55.8	53.1	0.0	0.0	0.0	57.7	74.6	70	Y	-1.8	N	0.1	N	N	N
R6321	6	46.4	Regentville	76.2	74.3	0.0	56.1	52.8	0.0	0.0	0.0	57.8	74.4	70	Y	-1.8	N	0.1	N	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT										Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							New Roads[2]													
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2044 dB(A)	Other Roads in 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2044 dB(A)[3] [B]	Overall Noise Level in 2044 dB(A) [C]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1.0 dB(A) E ≥ 1.0 dB(A)	New Road > Criteria B > Criteria	
							dB (A)													
R6321	7	49.4	Regentville	76	74.1	0.0	56.5	52.6	0.0	0.0	0.0	58.0	74.2	70	Y	-1.8	N	0.1	N	N	N
R6321	8	52.4	Regentville	75.8	73.9	0.0	56.8	52.4	0.0	0.0	0.0	58.1	74.0	70	Y	-1.8	N	0.1	N	N	N
R6321	9	55.4	Regentville	75.6	73.7	0.0	57.0	52.2	0.0	0.0	0.0	58.3	73.9	70	Y	-1.7	N	0.2	N	N	N
R6321	10	58.4	Regentville	75.5	73.6	0.0	57.3	52.1	0.0	0.0	0.0	58.4	73.7	70	Y	-1.8	N	0.1	N	N	N
R6321	11	61.4	Regentville	75.3	73.4	0.0	57.5	51.9	0.0	0.0	0.0	58.6	73.5	70	Y	-1.8	N	0.1	N	N	N
R6321	12	64.4	Regentville	75.1	73.2	0.0	57.7	51.7	0.0	0.0	0.0	58.7	73.4	70	Y	-1.7	N	0.2	N	N	N
R6321	13	67.4	Regentville	75	73.1	0.0	57.9	51.5	0.0	0.0	0.0	58.8	73.2	70	Y	-1.8	N	0.1	N	N	N
R6321	14	70.4	Regentville	74.8	72.9	0.0	58.0	51.3	0.0	0.0	0.0	58.9	73.1	70	Y	-1.7	N	0.2	N	N	N
R6321	15	73.4	Regentville	74.6	72.7	0.0	58.2	51.2	0.0	0.0	0.0	59.0	72.9	70	Y	-1.7	N	0.2	N	N	N
R6321	16	76.4	Regentville	74.5	72.6	0.0	58.4	51.0	0.0	0.0	0.0	59.1	72.8	70	Y	-1.7	N	0.2	N	N	N
R6321	17	79.4	Regentville	74.4	72.4	0.0	58.5	50.9	0.0	0.0	0.0	59.2	72.6	70	Y	-1.8	N	0.2	N	N	N
R6321	18	82.4	Regentville	74.2	72.3	0.0	58.6	50.8	0.0	0.0	0.0	59.3	72.5	70	Y	-1.7	N	0.2	N	N	N
R6321	19	85.4	Regentville	74.1	72.1	0.0	58.7	50.6	0.0	0.0	0.0	59.4	72.4	70	Y	-1.7	N	0.3	N	N	N
R6321	20	88.4	Regentville	73.9	72.0	0.0	58.8	50.5	0.0	0.0	0.0	59.4	72.2	70	Y	-1.7	N	0.2	N	N	N
R6321	21	91.4	Regentville	73.8	71.9	0.0	58.9	50.3	0.0	0.0	0.0	59.5	72.1	70	Y	-1.7	N	0.2	N	N	N
R6321	22	94.4	Regentville	73.6	71.7	0.0	59.0	50.2	0.0	0.0	0.0	59.5	72.0	70	Y	-1.6	N	0.3	N	N	N
R6321	23	97.4	Regentville	73.5	71.6	0.0	59.1	50.1	0.0	0.0	0.0	59.6	71.9	70	Y	-1.6	N	0.3	N	N	N
R6321	24	100.4	Regentville	73.4	71.5	0.0	59.2	50.0	0.0	0.0	0.0	59.7	71.8	70	Y	-1.6	N	0.3	N	N	N
R6321	25	103.4	Regentville	73.3	71.4	0.0	59.2	49.9	0.0	0.0	0.0	59.7	71.6	70	Y	-1.7	N	0.2	N	N	N
R6321	26	106.4	Regentville	73.2	71.3	0.0	59.3	49.7	0.0	0.0	0.0	59.8	71.6	70	Y	-1.6	N	0.3	N	N	N
R6321	27	109.4	Regentville	73	71.1	0.0	59.4	49.6	0.0	0.0	0.0	59.8	71.4	70	Y	-1.6	N	0.3	N	N	N
R6321	28	112.4	Regentville	72.9	71.0	0.0	59.5	49.5	0.0	0.0	0.0	59.9	71.3	70	Y	-1.6	N	0.3	N	N	N
R6321	29	115.4	Regentville	72.8	70.9	0.0	59.6	49.4	0.0	0.0	0.0	60.0	71.2	70	Y	-1.6	N	0.3	N	N	N
R6321	30	118.4	Regentville	72.7	70.8	0.0	59.7	49.4	0.0	0.0	0.0	60.1	71.1	70	Y	-1.6	N	0.3	N	N	N
R6322	1	31.4	Regentville	77.4	75.3	0.0	55.0	53.7	0.0	0.0	0.0	57.4	75.4	70	Y	-2.0	N	0.1	N	N	N
R6322	2	34.4	Regentville	77.2	75.1	0.0	55.4	53.5	0.0	0.0	0.0	57.6	75.2	70	Y	-2.0	N	0.1	N	N	N
R6322	3	37.4	Regentville	77	74.9	0.0	55.7	53.2	0.0	0.0	0.0	57.6	75.0	70	Y	-2.0	N	0.1	N	N	N
R6322	4	40.4	Regentville	76.9	74.8	0.0	56.0	52.9	0.0	0.0	0.0	57.7	74.9	70	Y	-2.0	N	0.1	N	N	N
R6322	5	43.4	Regentville	76.7	74.6	0.0	56.3	52.7	0.0	0.0	0.0	57.9	74.7	70	Y	-2.0	N	0.1	N	N	N
R6322	6	46.4	Regentville	76.5	74.4	0.0	56.7	52.4	0.0	0.0	0.0	58.0	74.5	70	Y	-2.0	N	0.1	N	N	N
R6322	7	49.4	Regentville	76.3	74.2	0.0	57.1	52.1	0.0	0.0	0.0	58.3	74.3	70	Y	-2.0	N	0.1	N	N	N
R6322	8	52.4	Regentville	76.1	74.0	0.0	57.4	52.0	0.0	0.0	0.0	58.5	74.2	70	Y	-1.9	N	0.2	N	N	N
R6322	9	55.4	Regentville	76	73.9	0.0	57.7	51.7	0.0	0.0	0.0	58.7	74.0	70	Y	-2.0	N	0.1	N	N	N
R6322	10	58.4	Regentville	75.8	73.7	0.0	57.9	51.6	0.0	0.0	0.0	58.8	73.8	70	Y	-2.0	N	0.1	N	N	N
R6322	11	61.4	Regentville	75.6	73.5	0.0	58.1	51.3	0.0	0.0	0.0	58.9	73.6	70	Y	-2.0	N	0.1	N	N	N
R6322	12	64.4	Regentville	75.5	73.3	0.0	58.3	51.2	0.0	0.0	0.0	59.0	73.5	70	Y	-2.0	N	0.2	N	N	N
R6322	13	67.4	Regentville	75.3	73.2	0.0	58.4	51.0	0.0	0.0	0.0	59.1	73.4	70	Y	-1.9	N	0.2	N	N	N
R6322	14	70.4	Regentville	75.1	73.0	0.0	58.5	50.9	0.0	0.0	0.0	59.2	73.2	70	Y	-1.9	N	0.2	N	N	N
R6322	15	73.4	Regentville	74.9	72.9	0.0	58.7	50.7	0.0	0.0	0.0	59.3	73.0	70	Y	-1.9	N	0.1	N	N	N
R6322	16	76.4	Regentville	74.8	72.7	0.0	58.8	50.6	0.0	0.0	0.0	59.4	72.9	70	Y	-1.9	N	0.2	N	N	N
R6322	17	79.4	Regentville	74.6	72.6	0.0	58.9	50.4	0.0	0.0	0.0	59.5	72.8	70	Y	-1.8	N	0.2	N	N	N
R6322	18	82.4	Regentville	74.5	72.4	0.0	59.0	50.3	0.0	0.0	0.0	59.5	72.6	70	Y	-1.9	N	0.2	N	N	N
R6322	19	85.4	Regentville	74.3	72.3	0.0	59.1	50.2	0.0	0.0	0.0	59.6	72.5	70	Y	-1.8	N	0.2	N	N	N
R6322	20	88.4	Regentville	74.2	72.1	0.0	59.1	50.0	0.0	0.0	0.0	59.6	72.4	70	Y	-1.8	N	0.3	N	N	N
R6322	21	91.4	Regentville	74.1	72.0	0.0	59.2	49.9	0.0	0.0	0.0	59.7	72.3	70	Y	-1.8	N	0.3	N	N	N
R6322	22	94.4	Regentville	73.9	71.9	0.0	59.2	49.8	0.0	0.0	0.0	59.7	72.1	70	Y	-1.8	N	0.2	N	N	N
R6322	23	97.4	Regentville	73.8	71.7	0.0	59.3	49.7	0.0	0.0	0.0	59.7	72.0	70	Y	-1.8	N	0.3	N	N	N
R6322	24	100.4	Regentville	73.7	71.6	0.0	59.3	49.5	0.0	0.0	0.0	59.8	71.9	70	Y	-1.8	N	0.3	N	N	N
R6322	25	103.4	Regentville	73.6	71.5	0.0	59.4	49.5	0.0	0.0	0.0	59.8	71.8	70	Y	-1.8	N	0.3	N	N	N
R6322	26	106.4	Regentville	73.5	71.4	0.0	59.4	49.3	0.0	0.0	0.0	59.8	71.7	70	Y	-1.8	N	0.3	N	N	N
R6322	27	109.4	Regentville	73.3	71.3	0.0	59.5	49.2	0.0	0.0	0.0	59.9	71.6	70	Y	-1.7	N	0.3	N	N	N
R6322	28	112.4	Regentville	73.2	71.1	0.0	59.5	49.1	0.0	0.0	0.0	59.9	71.5	70	Y	-1.7	N	0.4	N	N	N
R6322	29	115.4	Regentville	73.1	71.0	0.0	59.5	49.1	0.0	0.0	0.0	59.9	71.3	70	Y	-1.8	N	0.3	N	N	N
R6322	30	118.4	Regentville	73	70.9	0.0	59.6	48.9	0.0	0.0	0.0	59.9	71.2	70	Y	-1.8	N	0.3	N	N	N

Notes:

[1] Other Roads refer to planned road projects carried out by others such as Development of Lok Ma Chau Loop, Liantang / Heung Yuen Wai Boundary Control Point and Associated Works, Widening of Tolo Highway/Fanling Highway etc.

[2] PD - Primary Distributor Road; DD - District Distributor Road; LD - Local Distributor Road; EX - Expressway; TR - Trunk Roads.

[3] New Roads refer to the proposed road networks including planned internal roads within FLN NDA and modification of connecting roads to NDA.

[4] For landuse planned under NDA project, mitigation measures are required to mitigate the noise level to within noise criteria.

[5] For existing and planned NSRs outside and within the non-development area of NDA, Direct Mitigation Measures will be required when "With Project Overall Noise Level exceeds Noise Criteria" AND, either "With Project - Without Project Overall Noise Level ≥ 1.0 dB(A)" or "New Roads exceeds Noise Criteria" or "New Roads Contribution ≥ 1.0 dB(A)".

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN Social Welfares & Kindergartens (Mitigated Case on Proposed Roads)

				WITHOUT PROJECT	WITH PROJECT														
Assessment Point			Location	Overall Noise Level in 2044 dB(A) [A]	Existing Road at 2044 dB(A)	Other Roads at 2044 dB(A)[1]	New Roads[2] dB (A)						Overall Noise Level at 2044 dB(A) [B]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
ID	Floor	Floor Level (mPD)					PD	DD	LD	EX	TR	New Roads at 2044 dB(A) [A] [3]				C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [C]	New Road Contribution ≥ 1.0 dB(A) C ≥ 1.0 dB(A)	New Road > Criteria A > Criteria	
N7492	1	9.5	D2-9 Social Welfares	-	23.9	0.0	50.0	0.0	65.5	0.0	0.0	65.7	65.7	70.0	N	-	-	41.8	Y	N	N
N7492	2	12.5	D2-9 Social Welfares	-	24.5	0.0	51.0	0.0	65.5	0.0	0.0	65.7	65.7	70.0	N	-	-	41.2	Y	N	N
N7492	3	15.5	D2-9 Social Welfares	-	25.3	0.0	52.1	0.0	65.4	0.0	0.0	65.6	65.6	70.0	N	-	-	40.3	Y	N	N
N7492	4	18.5	D2-9 Social Welfares	-	26.4	0.0	53.4	0.0	65.3	0.0	0.0	65.5	65.5	70.0	N	-	-	39.1	Y	N	N
N7492	5	21.5	D2-9 Social Welfares	-	27.6	0.0	54.8	0.0	65.1	0.0	0.0	65.4	65.4	70.0	N	-	-	37.8	Y	N	N
N7492	6	24.5	D2-9 Social Welfares	-	29.0	0.0	56.1	0.0	64.8	0.0	0.0	65.3	65.3	70.0	N	-	-	36.3	Y	N	N
N7492	7	27.5	D2-9 Social Welfares	-	30.9	0.0	57.7	0.0	64.6	0.0	0.0	65.4	65.4	70.0	N	-	-	34.5	Y	N	N
N7493	1	9.5	D2-9 Social Welfares	-	0.0	0.0	52.2	0.0	22.4	0.0	0.0	52.2	52.2	70.0	N	-	-	49.2	Y	N	N
N7493	2	12.5	D2-9 Social Welfares	-	0.0	0.0	53.1	0.0	23.8	0.0	0.0	53.2	53.2	70.0	N	-	-	50.2	Y	N	N
N7493	3	15.5	D2-9 Social Welfares	-	0.0	0.0	54.2	0.0	25.4	0.0	0.0	54.2	54.2	70.0	N	-	-	51.2	Y	N	N
N7493	4	18.5	D2-9 Social Welfares	-	0.0	0.0	55.4	0.0	27.1	0.0	0.0	55.4	55.4	70.0	N	-	-	52.4	Y	N	N
N7493	5	21.5	D2-9 Social Welfares	-	0.0	0.0	56.7	0.0	29.4	0.0	0.0	56.7	56.7	70.0	N	-	-	53.7	Y	N	N
N7493	6	24.5	D2-9 Social Welfares	-	0.0	0.0	58.2	0.0	32.7	0.0	0.0	58.3	58.3	70.0	N	-	-	55.3	Y	N	N
N7493	7	27.5	D2-9 Social Welfares	-	0.0	0.0	60.1	0.0	37.1	0.0	0.0	60.2	60.2	70.0	N	-	-	57.2	Y	N	N
N7494	1	9.5	D2-9 Social Welfares	-	0.0	0.0	52.9	0.0	21.4	0.0	0.0	52.9	52.9	70.0	N	-	-	49.9	Y	N	N
N7494	2	12.5	D2-9 Social Welfares	-	0.0	0.0	53.9	0.0	22.8	0.0	0.0	53.9	53.9	70.0	N	-	-	50.9	Y	N	N
N7494	3	15.5	D2-9 Social Welfares	-	0.0	0.0	55.1	0.0	24.4	0.0	0.0	55.1	55.1	70.0	N	-	-	52.1	Y	N	N
N7494	4	18.5	D2-9 Social Welfares	-	0.0	0.0	56.4	0.0	26.2	0.0	0.0	56.4	56.4	70.0	N	-	-	53.4	Y	N	N
N7494	5	21.5	D2-9 Social Welfares	-	0.0	0.0	57.8	0.0	28.5	0.0	0.0	57.8	57.8	70.0	N	-	-	54.8	Y	N	N
N7494	6	24.5	D2-9 Social Welfares	-	0.0	0.0	59.4	0.0	31.9	0.0	0.0	59.5	59.5	70.0	N	-	-	56.5	Y	N	N
N7494	7	27.5	D2-9 Social Welfares	-	0.0	0.0	61.2	0.0	35.6	0.0	0.0	61.2	61.2	70.0	N	-	-	58.2	Y	N	N
N7495	1	9.5	D2-9 Social Welfares	-	26.8	0.0	52.8	0.0	18.8	0.0	0.0	52.8	52.9	70.0	N	-	-	26.1	Y	N	N
N7495	2	12.5	D2-9 Social Welfares	-	26.8	0.0	54.0	0.0	20.3	0.0	0.0	54.0	54.0	70.0	N	-	-	27.2	Y	N	N
N7495	3	15.5	D2-9 Social Welfares	-	26.8	0.0	55.3	0.0	22.1	0.0	0.0	55.3	55.3	70.0	N	-	-	28.5	Y	N	N
N7495	4	18.5	D2-9 Social Welfares	-	26.8	0.0	56.9	0.0	24.1	0.0	0.0	56.9	56.9	70.0	N	-	-	30.1	Y	N	N
N7495	5	21.5	D2-9 Social Welfares	-	26.8	0.0	58.6	0.0	26.6	0.0	0.0	58.6	58.6	70.0	N	-	-	31.8	Y	N	N
N7495	6	24.5	D2-9 Social Welfares	-	26.8	0.0	60.4	0.0	30.1	0.0	0.0	60.4	60.4	70.0	N	-	-	33.6	Y	N	N
N7495	7	27.5	D2-9 Social Welfares	-	26.8	0.0	62.5	0.0	33.4	0.0	0.0	62.5	62.5	70.0	N	-	-	35.7	Y	N	N
R7201	1	9.0	C2-6 Social Welfares	-	54.8	0.0	0.0	55.9	65.0	0.0	0.0	65.5	65.8	70.0	N	-	-	11.0	Y	N	N
R7201	2	13.0	C2-6 Social Welfares	-	54.8	0.0	0.0	55.9	64.9	0.0	0.0	65.4	65.8	70.0	N	-	-	11.0	Y	N	N
R7201	3	17.0	C2-6 Social Welfares	-	54.8	0.0	0.0	55.9	64.9	0.0	0.0	65.4	65.8	70.0	N	-	-	11.0	Y	N	N
R7201	4	21.0	C2-6 Social Welfares	-	54.9	0.0	0.0	55.9	64.8	0.0	0.0	65.3	65.7	70.0	N	-	-	10.8	Y	N	N
R7201	5	25.0	C2-6 Social Welfares	-	54.9	0.0	0.0	55.9	64.6	0.0	0.0	65.2	65.6	70.0	N	-	-	10.7	Y	N	N
R7202	1	9.0	C2-6 Social Welfares	-	0.0	0.0	53.8	63.8	52.3	0.0	0.0	64.5	64.5	70.0	N	-	-	61.5	Y	N	N
R7202	2	13.0	C2-6 Social Welfares	-	0.0	0.0	54.6	63.8	52.4	0.0	0.0	64.6	64.6	70.0	N	-	-	61.6	Y	N	N
R7202	3	17.0	C2-6 Social Welfares	-	0.0	0.0	55.3	63.8	52.6	0.0	0.0	64.7	64.7	70.0	N	-	-	61.7	Y	N	N
R7202	4	21.0	C2-6 Social Welfares	-	0.0	0.0	55.9	63.8	52.8	0.0	0.0	64.7	64.7	70.0	N	-	-	61.7	Y	N	N
R7202	5	25.0	C2-6 Social Welfares	-	0.0	0.0	56.4	63.8	53.0	0.0	0.0	64.8	64.8	70.0	N	-	-	61.8	Y	N	N
R7203	1	9.0	C2-6 Social Welfares	-	55.9	0.0	54.4	56.5	60.3	0.0	0.0	62.6	63.4	70.0	N	-	-	7.5	Y	N	N
R7203	2	13.0	C2-6 Social Welfares	-	56.0	0.0	54.6	56.5	60.3	0.0	0.0	62.6	63.4	70.0	N	-	-	7.4	Y	N	N
R7203	3	17.0	C2-6 Social Welfares	-	56.1	0.0	54.9	56.5	60.3	0.0	0.0	62.6	63.5	70.0	N	-	-	7.4	Y	N	N
R7203	4	21.0	C2-6 Social Welfares	-	56.3	0.0	55.2	56.5	60.3	0.0	0.0	62.7	63.6	70.0	N	-	-	7.3	Y	N	N
R7203	5	25.0	C2-6 Social Welfares	-	56.4	0.0	55.4	56.5	60.3	0.0	0.0	62.7	63.6	70.0	N	-	-	7.2	Y	N	N
R7204	1	9.0	C2-6 Social Welfares	-	59.2	0.0	0.0	0.0	69.0	0.0	0.0	69.0	69.5	70.0	N	-	-	10.3	Y	N	N
R7204	2	13.0	C2-6 Social Welfares	-	59.2	0.0	0.0	0.0	69.0	0.0	0.0	69.0	69.5	70.0	N	-	-	10.3	Y	N	N
R7204	3	17.0	C2-6 Social Welfares	-	59.3	0.0	0.0	0.0	68.8	0.0	0.0	68.8	69.3	70.0	N	-	-	10.0	Y	N	N
R7204	4	21.0	C2-6 Social Welfares	-	59.4	0.0	0.0	0.0	68.6	0.0	0.0	68.6	69.1	70.0	N	-	-	9.7	Y	N	N
R7204	5	25.0	C2-6 Social Welfares	-	59.4	0.0	0.0	0.0	68.3	0.0	0.0	68.3	68.8	70.0	N	-	-	9.4	Y	N	N
N7951	1	12.3	D2-9 Kindergarten	-	0.0	0.0	56.2	0.0	37.4	0.0	0.0	56.3	56.3	65.0	N	-	-	53.3	Y	N	N
N7952	1	12.3	D2-9 Kindergarten	-	19.2	0.0	48.9	0.0	28.5	0.0	0.0	49.0	49.0	65.0	N	-	-	29.7	Y	N	N
N7953	1	12.3	D2-9 Kindergarten	-	18.1	0.0	48.1	37.8	55.4	0.0	0.0	56.2	56.2	65.0	N	-	-	38.0	Y	N	N
N7954	1	12.3	D2-9 Kindergarten	-	13.9	0.0	56.4	8.5	52.9	0.0	0.0	58.0	58.0	65.0	N	-	-	43.9	Y	N	N
N7955	1	12.6	D2-9 Kindergarten	-	0.0	0.0	42.7	0.0	15.2	0.0	0.0	42.7	42.7	65.0	N	-	-	39.7	Y	N	N
N7956	1	12.6	D2-9 Kindergarten	-	20.8	0.0	40.5	0.0	57.4	0.0	0.0	57.5	57.5	65.0	N	-	-	36.7	Y	N	N
N7957	1	12.6	D2-9 Kindergarten	-	22.5	0.0	30.9	16.2	60.0	0.0	0.0	60.0	60.0	65.0	N	-	-	37.5	Y	N	N
N7958	1	12.6	D2-9 Kindergarten	-	15.4	0.0	52.4	14.4	58.7	0.0	0.0	59.6	59.6	65.0	N	-	-	44.1	Y	N	N
N7959	1	12.9	D2-9 Kindergarten	-	0.0	0.0	43.6	0.0	11.4	0.0	0.0	43.6	43.6	65.0	N	-	-	40.6	Y	N	N
N7960	1	12.9	D2-9 Kindergarten	-	28.1	0.0	47.9	0.0	69.2	0.0	0.0	69.2	69.2	65.0	Y	-	-	41.1	Y	Y	Y
N7961	1	12.9	D2-9 Kindergarten	-	31.4	0.0	30.8	14.6	70.7	0.0	0.0	70.7	70.7	65.0	Y	-	-	39.3	Y	Y	Y
N7962	1	12.9	D2-9 Kindergarten	-	17.1	0.0	49.5	37.4	63.8	0.0	0.0	64.0	64.0	65.0	N	-	-	46.8	Y	N	N
N7963	1	13.1	D2-9 Kindergarten	-	0.0	0.0	54.6	0.0	55.8	0.0	0.0	58.3	58.3	65.0	N	-	-	55.3	Y	N	N
N7964	1	13.1	D2-9 Kindergarten	-	45.6	0.0	56.2	0.0	20.4	0.0	0.0	56.2	56.6	65.0	N	-	-	11.0	Y	N	N
N7965	1	13.1	D2-9 Kindergarten	-	28.6	0.0	32.7	13.4	36.9	0.0	0.0	38.3	38.8	65.0	N	-	-	10.2	Y	N	N
N7966	1	13.1	D2-9 Kindergarten	-	18.1	0.0	44.3	13.3	69.6	0.0	0.0	69.6	69.6	65.0	Y	-	-	51.4	Y	Y	Y
N7967	1	13.1	D2-9 Kindergarten	-	46.2	0.0	55.1	0.0	27.0	0.0	0.0	55.1	55.6	65.0	N	-	-	9.4	Y	N	N
N7968	1	13.1	D2-9 Kindergarten	-	51.1	0.0	60.7	0.0	16.2	0.0	0.0	60.7	61.1	65.0	N	-	-	10.0	Y	N	N
N7969	1	13.1	D2-9 Kindergarten	-	50.4	0.0	51.9	13.0	35.0	0.0	0.0	52.0	54.3	65.0	N	-	-	3.9	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN Social Welfares & Kindergartens (Mitigated Case on Proposed Roads)

				WITHOUT PROJECT	WITH PROJECT													
Assessment Point			Location	Overall Noise Level in 2044 dB(A) [A]	Existing Road at 2044 dB(A)	Other Roads at 2044 dB(A)[1]	New Roads[2] dB (A)					New Roads at 2044 dB(A) [A] [3]	Overall Noise Level at 2044 dB(A) [B]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
ID	Floor	Floor Level (mPD)					PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [C]	New Road Contribution ≥ 1.0 dB(A) C ≥ 1.0 dB(A)	New Road > Criteria A > Criteria	
N7970	1	13.1	D2-9 Kindergarten	-	22.4	0.0	34.1	13.2	37.4	0.0	0.0	39.1	39.2	65.0	N	-	-	16.8	Y	N	N
N7971	1	9.5	D2-9 Kindergarten	-	0.0	0.0	50.7	7.3	43.9	0.0	0.0	51.5	51.5	65.0	N	-	-	48.5	Y	N	N
N7971	2	12.5	D2-9 Kindergarten	-	0.0	0.0	51.6	7.3	44.0	0.0	0.0	52.3	52.3	65.0	N	-	-	49.3	Y	N	N
N7971	3	15.5	D2-9 Kindergarten	-	0.0	0.0	52.6	7.3	44.0	0.0	0.0	53.1	53.1	65.0	N	-	-	50.1	Y	N	N
N7971	4	18.5	D2-9 Kindergarten	-	0.0	0.0	53.6	7.3	44.1	0.0	0.0	54.0	54.0	65.0	N	-	-	51.0	Y	N	N
N7971	5	21.5	D2-9 Kindergarten	-	0.0	0.0	54.7	7.3	44.2	0.0	0.0	55.1	55.1	65.0	N	-	-	52.1	Y	N	N
N7971	6	24.5	D2-9 Kindergarten	-	0.0	0.0	56.1	7.3	44.3	0.0	0.0	56.3	56.3	65.0	N	-	-	53.3	Y	N	N
N7971	7	27.5	D2-9 Kindergarten	-	0.0	0.0	57.6	7.3	44.7	0.0	0.0	57.8	57.8	65.0	N	-	-	54.8	Y	N	N
N7972	1	9.5	D2-9 Kindergarten	-	0.0	0.0	52.9	0.0	21.4	0.0	0.0	52.9	52.9	65.0	N	-	-	49.9	Y	N	N
N7972	2	12.5	D2-9 Kindergarten	-	0.0	0.0	53.9	0.0	22.8	0.0	0.0	53.9	53.9	65.0	N	-	-	50.9	Y	N	N
N7972	3	15.5	D2-9 Kindergarten	-	0.0	0.0	55.1	0.0	24.3	0.0	0.0	55.1	55.1	65.0	N	-	-	52.1	Y	N	N
N7972	4	18.5	D2-9 Kindergarten	-	0.0	0.0	56.4	0.0	26.1	0.0	0.0	56.4	56.4	65.0	N	-	-	53.4	Y	N	N
N7972	5	21.5	D2-9 Kindergarten	-	0.0	0.0	57.9	0.0	28.5	0.0	0.0	57.9	57.9	65.0	N	-	-	54.9	Y	N	N
N7972	6	24.5	D2-9 Kindergarten	-	0.0	0.0	59.5	0.0	31.9	0.0	0.0	59.5	59.5	65.0	N	-	-	56.5	Y	N	N
N7972	7	27.5	D2-9 Kindergarten	-	0.0	0.0	61.3	0.0	35.6	0.0	0.0	61.3	61.3	65.0	N	-	-	58.3	Y	N	N
N7973	1	9.5	D2-9 Kindergarten	-	26.8	0.0	52.9	0.0	18.9	0.0	0.0	52.9	52.9	65.0	N	-	-	26.1	Y	N	N
N7973	2	12.5	D2-9 Kindergarten	-	26.8	0.0	54.0	0.0	20.3	0.0	0.0	54.0	54.0	65.0	N	-	-	27.2	Y	N	N
N7973	3	15.5	D2-9 Kindergarten	-	26.8	0.0	55.3	0.0	22.1	0.0	0.0	55.3	55.3	65.0	N	-	-	28.5	Y	N	N
N7973	4	18.5	D2-9 Kindergarten	-	26.8	0.0	56.9	0.0	24.1	0.0	0.0	56.9	56.9	65.0	N	-	-	30.1	Y	N	N
N7973	5	21.5	D2-9 Kindergarten	-	26.8	0.0	58.7	0.0	26.6	0.0	0.0	58.7	58.7	65.0	N	-	-	31.9	Y	N	N
N7973	6	24.5	D2-9 Kindergarten	-	26.8	0.0	60.4	0.0	30.1	0.0	0.0	60.4	60.4	65.0	N	-	-	33.6	Y	N	N
N7973	7	27.5	D2-9 Kindergarten	-	26.8	0.0	62.5	0.0	33.4	0.0	0.0	62.5	62.5	65.0	N	-	-	35.7	Y	N	N
N7974	1	9.5	D2-9 Kindergarten	-	24.0	0.0	50.0	0.0	65.6	0.0	0.0	65.7	65.7	65.0	Y	-	-	41.7	Y	Y	Y
N7974	2	12.5	D2-9 Kindergarten	-	24.5	0.0	51.0	0.0	65.5	0.0	0.0	65.6	65.6	65.0	Y	-	-	41.1	Y	Y	Y
N7974	3	15.5	D2-9 Kindergarten	-	25.3	0.0	52.1	0.0	65.4	0.0	0.0	65.6	65.6	65.0	Y	-	-	40.3	Y	Y	Y
N7974	4	18.5	D2-9 Kindergarten	-	26.4	0.0	53.4	0.0	65.3	0.0	0.0	65.5	65.5	65.0	Y	-	-	39.1	Y	Y	Y
N7974	5	21.5	D2-9 Kindergarten	-	27.6	0.0	54.8	0.0	65.1	0.0	0.0	65.5	65.5	65.0	Y	-	-	37.9	Y	Y	Y
N7974	6	24.5	D2-9 Kindergarten	-	29.0	0.0	56.2	0.0	64.8	0.0	0.0	65.4	65.4	65.0	N	-	-	36.4	Y	N	N
N7974	7	27.5	D2-9 Kindergarten	-	30.9	0.0	57.7	0.0	64.6	0.0	0.0	65.4	65.4	65.0	N	-	-	34.5	Y	N	N
N7975	1	9.5	D2-9 Kindergarten	-	26.6	0.0	28.5	10.6	62.1	0.0	0.0	62.1	62.1	65.0	N	-	-	35.5	Y	N	N
N7975	2	12.5	D2-9 Kindergarten	-	27.7	0.0	28.5	10.6	62.1	0.0	0.0	62.1	62.1	65.0	N	-	-	34.4	Y	N	N
N7975	3	15.5	D2-9 Kindergarten	-	29.1	0.0	28.5	10.6	62.1	0.0	0.0	62.1	62.1	65.0	N	-	-	33.0	Y	N	N
N7975	4	18.5	D2-9 Kindergarten	-	30.7	0.0	28.5	10.6	62.0	0.0	0.0	62.0	62.0	65.0	N	-	-	31.3	Y	N	N
N7975	5	21.5	D2-9 Kindergarten	-	32.0	0.0	28.5	10.6	62.0	0.0	0.0	62.0	62.0	65.0	N	-	-	30.0	Y	N	N
N7975	6	24.5	D2-9 Kindergarten	-	33.7	0.0	28.5	10.6	61.9	0.0	0.0	61.9	61.9	65.0	N	-	-	28.2	Y	N	N
N7975	7	27.5	D2-9 Kindergarten	-	35.6	0.0	28.5	10.6	61.8	0.0	0.0	61.8	61.8	65.0	N	-	-	26.2	Y	N	N
N7976	1	16.0	D2-9 Kindergarten	-	0.0	0.0	43.7	14.2	72.3	0.0	0.0	72.3	72.3	65.0	Y	-	-	69.3	Y	Y	Y
N7976	2	19.0	D2-9 Kindergarten	-	0.0	0.0	44.2	14.2	71.8	0.0	0.0	71.8	71.8	65.0	Y	-	-	68.8	Y	Y	Y
N7976	3	22.0	D2-9 Kindergarten	-	0.0	0.0	44.7	14.2	71.3	0.0	0.0	71.3	71.3	65.0	Y	-	-	68.3	Y	Y	Y
N7977	1	16.0	D2-9 Kindergarten	-	44.3	0.0	45.8	0.0	0.0	0.0	0.0	45.8	48.1	65.0	N	-	-	3.8	Y	N	N
N7977	2	19.0	D2-9 Kindergarten	-	47.1	0.0	46.7	0.0	0.0	0.0	0.0	46.7	49.9	65.0	N	-	-	2.8	Y	N	N
N7977	3	22.0	D2-9 Kindergarten	-	48.3	0.0	47.6	0.0	0.0	0.0	0.0	47.6	51.0	65.0	N	-	-	2.7	Y	N	N
N7978	1	16.0	D2-9 Kindergarten	-	45.2	0.0	51.9	7.9	60.2	0.0	0.0	60.8	61.0	65.0	N	-	-	15.8	Y	N	N
N7978	2	19.0	D2-9 Kindergarten	-	46.2	0.0	52.0	7.9	60.2	0.0	0.0	60.8	60.9	65.0	N	-	-	14.7	Y	N	N
N7978	3	22.0	D2-9 Kindergarten	-	47.0	0.0	52.1	7.9	60.1	0.0	0.0	60.8	60.9	65.0	N	-	-	13.9	Y	N	N
N7979	1	16.0	D2-9 Kindergarten	-	50.3	0.0	0.0	15.9	70.3	0.0	0.0	70.3	70.3	65.0	Y	-	-	20.0	Y	Y	Y
N7979	2	19.0	D2-9 Kindergarten	-	50.6	0.0	0.0	15.9	69.9	0.0	0.0	69.9	70.0	65.0	Y	-	-	19.4	Y	Y	Y
N7979	3	22.0	D2-9 Kindergarten	-	50.9	0.0	0.0	15.9	69.6	0.0	0.0	69.6	69.7	65.0	Y	-	-	18.8	Y	Y	Y
R7751	1	13.0	D3-1c Kindergarten	-	16.0	0.0	41.9	27.7	42.7	0.0	0.0	45.4	45.4	65.0	N	-	-	29.3	Y	N	N
R7751	2	17.5	D3-1c Kindergarten	-	16.4	0.0	45.0	27.7	42.9	0.0	0.0	47.2	47.2	65.0	N	-	-	30.7	Y	N	N
R7752	1	13.0	D3-1c Kindergarten	-	16.6	0.0	27.5	26.9	56.9	0.0	0.0	56.9	56.9	65.0	N	-	-	40.2	Y	N	N
R7752	2	17.5	D3-1c Kindergarten	-	17.0	0.0	27.5	26.9	56.9	0.0	0.0	56.9	56.9	65.0	N	-	-	39.8	Y	N	N
R7757	1	13.0	D3-1c Kindergarten	-	51.0	0.0	25.7	33.3	58.0	0.0	0.0	58.0	58.8	65.0	N	-	-	7.8	Y	N	N
R7757	2	17.5	D3-1c Kindergarten	-	52.0	0.0	25.7	34.3	58.0	0.0	0.0	58.0	59.0	65.0	N	-	-	7.0	Y	N	N
R7758	1	13.0	D3-1c Kindergarten	-	49.5	0.0	27.2	30.8	56.5	0.0	0.0	56.5	57.3	65.0	N	-	-	7.8	Y	N	N
R7758	2	17.5	D3-1c Kindergarten	-	50.4	0.0	27.2	31.5	56.5	0.0	0.0	56.5	57.5	65.0	N	-	-	7.1	Y	N	N
R7901	1	9.5	D3-4 Kindergarten	-	0.0	0.0	39.1	29.7	71.4	0.0	0.0	71.5	71.5	65.0	Y	-	-	68.5	Y	Y	Y
R7901	2	14.0	D3-4 Kindergarten	-	0.0	0.0	39.5	31.7	71.2	0.0	0.0	71.2	71.2	65.0	Y	-	-	68.2	Y	Y	Y
R7902	1	9.5	D3-4 Kindergarten	-	0.0	0.0	36.9	0.0	71.5	0.0	0.0	71.5	71.5	65.0	Y	-	-	68.5	Y	Y	Y
R7902	2	14.0	D3-4 Kindergarten	-	0.0	0.0	37.2	0.0	71.2	0.0	0.0	71.2	71.2	65.0	Y	-	-	68.2	Y	Y	Y
R7903	1	9.5	D3-4 Kindergarten	-	0.0	0.0	41.5	0.0	71.7	0.0	0.0	71.7	71.7	65.0	Y	-	-	68.7	Y	Y	Y
R7903	2	14.0	D3-4 Kindergarten	-	0.0	0.0	41.8	0.0	71.4	0.0	0.0	71.5	71.5	65.0	Y	-	-	68.5	Y	Y	Y
R7904	1	9.5	D3-4 Kindergarten	-	0.0	0.0	45.8	0.0	71.7	0.0	0.0	71.8	71.8	65.0	Y	-	-	68.8	Y	Y	Y
R7904	2	14.0	D3-4 Kindergarten	-	0.0	0.0	46.3	0.0	71.5	0.0	0.0	71.5	71.5	65.0	Y	-	-	68.5	Y	Y	Y
R7906	1	9.5	D3-4 Kindergarten	-	24.8	0.0	25.3	19.1	59.2	0.0	0.0	59.2	59.2	65.0	N	-	-	34.4	Y	N	N
R7906	2	14.0	D3-4 Kindergarten	-	25.2	0.0	25.3	19.1	59.2	0.0	0.0	59.2	59.2	65.0	N	-	-	34.0	Y	N	N
R7907	1	9.5	D3-4 Kindergarten	-	24.4	0.0	45.7	20.1	63.9	0.0	0.0	63.9	63.9	65.0	N	-	-	39.5	Y	N	N

Title: Detailed Calculation of Road Traffic Noise on Direct Mitigation Measures
Scenario: FLN Social Welfares & Kindergartens (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT													
							New Roads[2]											
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road at 2044 dB(A)	Other Roads at 2044 dB(A)[1]	PD	DD	LD	EX	TR	New Roads at 2044 dB(A) [A] [3]	Overall Noise Level at 2044 dB(A) [B]	Noise Criteria dB(A)	Exceedance B > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			Mitigation Measures Required [4,5] (Y/N)
							dB (A)									C - A dB(A) [D]	D ≥ 1.0 dB(A)	New Road Contribution dB(A) [C]	New Road Contribution ≥ 1.0 dB(A) C ≥ 1.0 dB(A)	New Road > Criteria A > Criteria	
R7907	2	14.0	D3-4 Kindergarten	-	24.7	0.0	46.6	20.1	63.9	0.0	0.0	63.9	63.9	65.0	N	-	-	39.2	Y	N	N
R7908	1	9.5	D3-4 Kindergarten	-	47.3	0.0	39.6	0.0	69.1	0.0	0.0	69.1	69.1	65.0	Y	-	-	21.8	Y	Y	Y
R7908	2	14.0	D3-4 Kindergarten	-	47.5	0.0	39.9	0.0	69.0	0.0	0.0	69.0	69.0	65.0	Y	-	-	21.5	Y	Y	Y
R7909	1	9.5	D3-4 Kindergarten	-	49.7	0.0	39.1	5.9	67.8	0.0	0.0	67.8	67.9	65.0	Y	-	-	18.2	Y	Y	Y
R7909	2	14.0	D3-4 Kindergarten	-	49.8	0.0	39.8	5.9	67.7	0.0	0.0	67.8	67.8	65.0	Y	-	-	18.0	Y	Y	Y
R7910	1	9.5	D3-4 Kindergarten	-	49.1	0.0	36.2	6.2	64.1	0.0	0.0	64.1	64.2	65.0	N	-	-	15.1	Y	N	N
R7910	2	14.0	D3-4 Kindergarten	-	49.3	0.0	37.3	6.2	64.1	0.0	0.0	64.1	64.2	65.0	N	-	-	14.9	Y	N	N
R7911	1	9.5	D3-4 Kindergarten	-	48.2	0.0	33.7	6.1	61.3	0.0	0.0	61.3	61.5	65.0	N	-	-	13.3	Y	N	N
R7911	2	14.0	D3-4 Kindergarten	-	48.4	0.0	34.9	6.1	61.3	0.0	0.0	61.3	61.5	65.0	N	-	-	13.1	Y	N	N

Note:

[1] Other Roads refer to planned road projects carried out by others such as Development of Lok Ma Chau Loop, Liantang / Heung Yuen Wai Boundary Control Point and Associated Works, Widening of Tolo Highway/Fanling Highway etc.

[2] PD - Primary Distributor Road; DD - District Distributor Road; LD - Local Distributor Road; EX - Expressway; TR - Trunk Roads.

[3] New Roads refer to the proposed road networks including planned internal roads within FLN NDA and modification of connecting roads to NDA.

[4] For landuse planned under NDA project, mitigation measures are required to mitigate the noise level to within noise criteria.

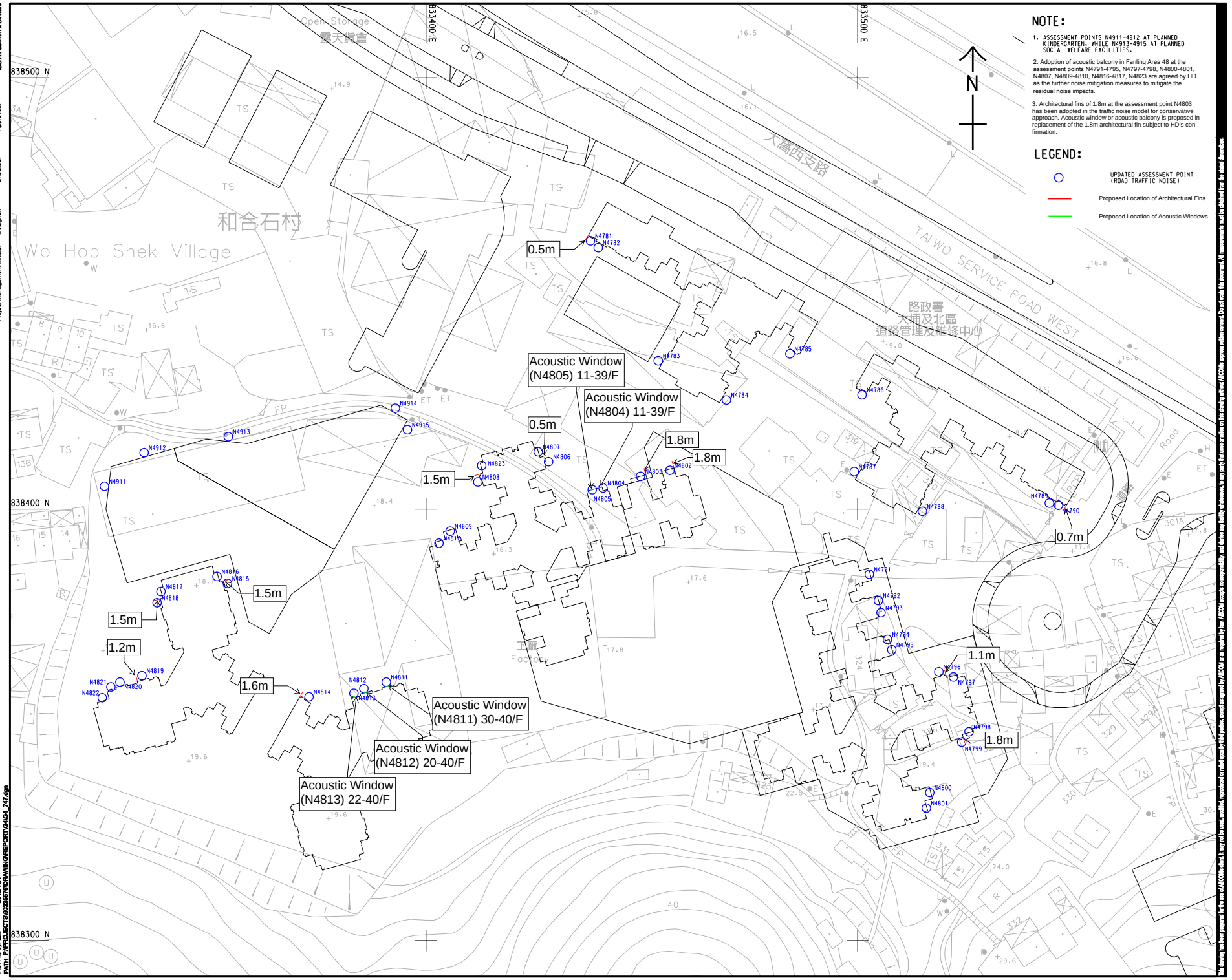
[5] For existing and planned NSRs outside and within the non-development area of NDA, Direct Mitigation Measures will be required when "With Project Overall Noise Level exceeds Noise Criteria" AND, either "With Project - Without Project Overall Noise Level ≥ 1.0 dB(A)" or "New Roads exceeds Noise Criteria" or "New Roads Contribution ≥ 1.0 dB(A)".

[BLANK]

Appendix 2.5

Excerpt of P&E Review – Details of Noise Mitigation Measures at Fanling Area 48

[BLANK]



AECOM

PROJECT
DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
CEDD 土木工程拓展署 Civil Engineering and Development Department

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

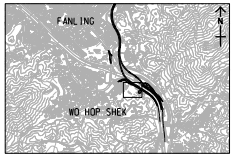
MR	DATE	DESCRIPTION	CHK

STATUS

SCALE
A1 1 : 400

DIMENSION UNIT
METRES

KEY PLAN A1 1 : 16000



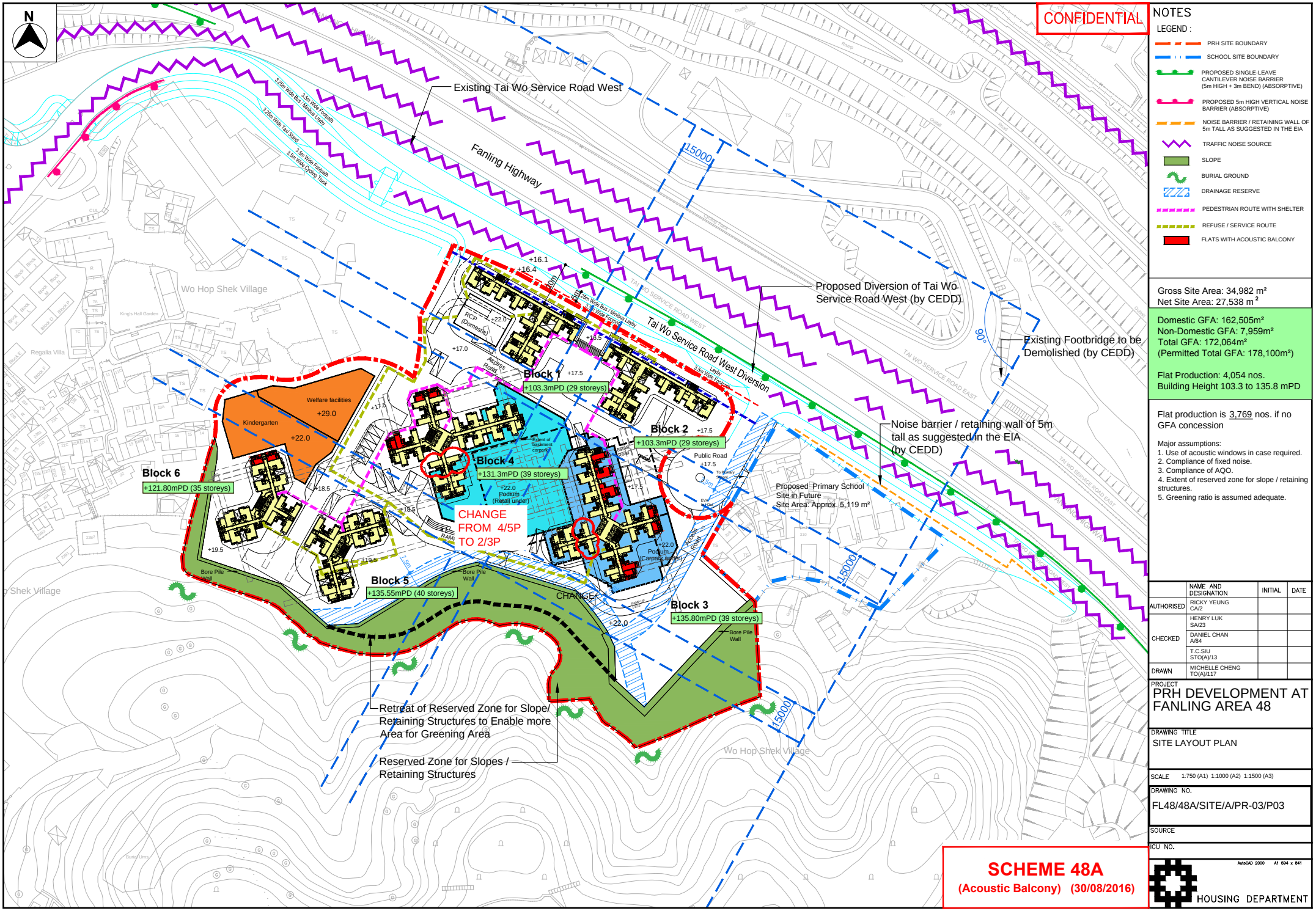
PROJECT NO.
60335576

CONTRACT NO.
CE 13/2014 (CE)

SHEET TITLE
LOCATIONS OF ASSESSMENT POINTS - ROAD TRAFFIC NOISE (RESIDENTIAL AND SCHOOL - FANLING AREA 48)

SHEET NUMBER
60335576/G4/4.2.3k

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
2016/11/1
Plot File by: Lixl
PATH: P:\PROJECTS\60335576\DRAWING\REPORT\G4\G4_747.dgn



NOTES

LEGEND :

- PRH SITE BOUNDARY
- SCHOOL SITE BOUNDARY
- PROPOSED SINGLE-LEAVE CANTILEVER NOISE BARRIER (5m HIGH + 3m BEND) (ABSORPTIVE)
- PROPOSED 5m HIGH VERTICAL NOISE BARRIER (ABSORPTIVE)
- NOISE BARRIER / RETAINING WALL OF 5m TALL AS SUGGESTED IN THE EIA
- TRAFFIC NOISE SOURCE
- SLOPE
- BURIAL GROUND
- DRAINAGE RESERVE
- PEDESTRIAN ROUTE WITH SHELTER
- REFUSE / SERVICE ROUTE
- FLATS WITH ACOUSTIC BALCONY

Gross Site Area: 34,982 m²
Net Site Area: 27,538 m²

Domestic GFA: 162,505m²
Non-Domestic GFA: 7,959m²
Total GFA: 172,064m²
(Permitted Total GFA: 178,100m²)

Flat Production: 4,054 nos.
Building Height 103.3 to 135.8 mPD

Flat production is 3,769 nos. if no GFA concession

Major assumptions:
1. Use of acoustic windows in case required.
2. Compliance of fixed noise.
3. Compliance of AQO.
4. Extent of reserved zone for slope / retaining structures.
5. Greening ratio is assumed adequate.

	NAME AND DESIGNATION	INITIAL	DATE
AUTHORISED	RICKY YEUNG CA/2		
CHECKED	HENRY LUK SA/23		
	DANIEL CHAN A/84		
	T.C.SIU STO(A)/13		
DRAWN	MICHELLE CHENG TO(A)/117		

PROJECT
PRH DEVELOPMENT AT FANLING AREA 48

DRAWING TITLE
SITE LAYOUT PLAN

SCALE 1:750 (A1) 1:1000 (A2) 1:1500 (A3)

DRAWING NO.
FL48/48A/SITE/A/PR-03/P03

SOURCE

TCU NO.

AutoCAD 2000 A1 594 x 841

HOUSING DEPARTMENT

SCHEME 48A
(Acoustic Balcony) (30/08/2016)

Appendix 2.6

Details Breakdown of Protected and Benefitted Land Uses

[BLANK]

Title: Number of Dwellings / Classrooms Protected by and Benefited from Noise Mitigation Measures

NSE[1]	NSR	No. of Dwellings / Classrooms Represented	Total Number of Dwellings / Classrooms Exceeded		No. of Dwellings / Classrooms Protected By Noise Mitigation Measures	No. of Dwellings / Classrooms Benefited From Noise Mitigation Measures
			Unmitigated	Mitigated		
Dwellings	FN-1	9	0	0	0	0
Dwellings	FN-2	27	0	0	0	0
Dwellings	FN-3	45	45	45	0	0
Dwellings	FN-4	2	0	0	0	0
Dwellings	FN-5	9	0	0	0	0
Dwellings	FN-6	3	0	0	0	0
Dwellings	FN-7	3	0	0	0	0
Dwellings	FN-8	29	6	0	6	6
Dwellings	FN-31	1548	442	311	131	134
Dwellings	FS-1	42	14	0	14	14
Dwellings	FS-4	12	0	0	0	0
Dwellings	FS-5	12	0	0	0	0
Dwellings	FS-6	12	0	0	0	0
Dwellings	FS-9	44	0	0	0	0
Dwellings	FS-10	64	9	0	9	9
Dwellings	FS-11	11	0	0	0	0
Dwellings	FS-13	9	9	0	9	9
Dwellings	FS-14	464	424	416	8	0
Dwellings	FS-15	63	48	48	0	0
Dwellings	FS-16	2	2	0	2	2
Dwellings	FS-17	4177	1536	0	1536	1524
School	FS-17	96	72	0	72	72
School	C2-7	48	32	0	32	32
School	C2-9	48	48	30	18	48
Dwellings	D2-2	1200	232	0	232	232
Dwellings	D2-4	800	128	0	128	128
Dwellings	D2-6	800	184	0	184	184
Dwellings	D2-9	4848	488	0	488	444
Dwellings	D2-12	959	223	0	223	203
Dwellings	D3-1a	440	304	0	304	304
Dwellings	D3-1b	784	176	0	176	176
Dwellings	D3-3	480	0	0	0	0
Dwellings	D3-4	480	0	0	0	0
Dwellings	D3-7	120	0	0	0	0
School	D3-12	8	8	0	8	8
School	FN-53	18	18	18	0	0
Dwellings	FN-75	480	480	480	0	0
Dwellings	R TH1	2	0	0	0	0
Dwellings	R TH2	2	0	0	0	0
Dwellings	R TH4	2	1	0	1	1
Dwellings	R TH5	2	2	0	2	2
Dwellings	R TH6	2	2	0	2	2
Dwellings	R KT1	1	0	0	0	0
Dwellings	R KT2	2	0	0	0	0
Dwellings	R KT3	1	0	0	0	0
Dwellings	R KLHSW	46	0	0	0	0
Dwellings	R SR7N	3	3	0	3	3
Dwellings	R SR77	3	0	0	0	0
Dwellings	R FLNBP1	12	0	0	0	0
Dwellings	R WHS1	2	2	0	2	2
Dwellings	R NWP1	60	0	0	0	0
Dwellings	R SR8	12	3	3	0	0
Dwellings	R SR12	3	0	0	0	0
Total		**18351**	**4941**	**1351**	**3590**	**3539**

Note:

[1] NSE - Noise sensitive element

[2] As the layout details showing classroom for primary school is not presently available, six classrooms will be assumed for each floor.

[BLANK]

Appendix 2.7

Summary of Road Traffic Noise Mitigation Proposal for the Project

[BLANK]

Appendix 2.7
Summary of Road Traffic Noise Mitigation Proposal for the Project

Project Area	Mitigation Measure ID	Approximate Chainage [Hong Kong Grid Coordinates]	Type and Approximate Extent of Mitigation Measures				Implementation Programme Mitigation Measures in Place before Population Intake at Site(s)	Corresponding Figure No.
			Type [1]	Length, m	Height, m	Area, m^2		
FLN – DP10								
Fanling Bypass Eastern Section (DP10)	FLN-NB21	R11 CH 951 – R11 CH 1372 [(832266, 840778) – (832661, 840916)]	NB	420	2	-	To be in place before commissioning of Project for protecting the existing NSRs (N4155-4156)	2.2b & 2.2c
	FLN-NB22	R11 CH 1601 – R11 CH 1783 [(832886, 840893) – (833028, 840793)]	NB	175	5	-	D2-9	2.2c
	FLN-NB23	R11 CH 1783 – R11 CH 2130 [(833028, 840793) – (833104, 840465)]	CNB	345	5+3	-	D2-9	2.2c
	FLN-NB24	R11 CH 2107 – R11 CH 2256 [(833107, 840490) – (833162, 840349]	CNB	155	5+3	-	To be in place before commissioning of Project for protecting the existing NSR (N4432)	2.2c
	FLN-NB27	R11 CH 3091 – R11 CH 3138 [(833147, 839574) – (833142, 839529)]	NB	45	5	-	To be in place before commissioning of Project for protecting the existing NSR (R4641)	2.2d
	FLN-NB28	S002 CH 1668 – S002 CH 1843 [(833603, 838502) – (833731, 838386)]	NB	175	5	-	To be in place before commissioning of Project for protecting the existing NSR (R TH5, R TH6, R4763)	2.2e
	FLN-NB29	R11 CH 4195 – R11 CH 4449 [(833387, 838534) – (833600, 838409)]	CNB	245	5+3	-	To be in place before • commissioning of Project for protecting the existing NSRs (R4783, R4784); or • population intake at the committed development at FS-17 (Area 48)	2.2e
	FLN-NB30	P800 CH 455 – P800 CH 717 [(833600, 838409) – (833797, 838226)]	CNB	275	5+3	-	To be in place before • commissioning of Project for protecting the existing NSRs (R4783-4785, R WHS1); or • population intake at the committed development at FS-17 (Area 48)	2.2e
	FLN-NB31	R11 CH 3214 – R11 CH 3255 [(833148, 839457) – (833157, 839420)]	NB	40	5	-	To be in place before commissioning of Project for protecting the existing NSR (N4645)	2.2d
	FLN-NB32	R11 CH 3566 – R11 CH 3598 [(833267, 839128) – (833266, 839095)]	NB	35	2	-	To be in place before commissioning of Project for protecting the existing NSRs at FS-11 (Tong Hang)	2.2d
	FLN-NB33a	SR07 CH 115– SR07 CH 155 [(833245, 840173) – (833241, 840206)]	CNB2	40	7+3	-	To be in place before commissioning of Project for protecting the existing NSRs (R4431, N4432)	2.2c
	FLN-NB33b	SR07 CH 112– SR07 CH 115 [(833241, 840206) – (833241, 840209)]	NB	3	5	-	To be in place before commissioning of Project for protecting the existing NSR (N4432)	2.2c
	FLN-NB34	P303 CH 156 – P303 CH 221 [(833239, 840164) – (833255, 840101)]	CNB2	65	7+3	-	To be in place before commissioning of Project for protecting the existing NSRs (R4431, N4432)	2.2c
	FLN-NB35	SR08 CH 104 – SR08 CH 259 [(833276, 840225) – (833297, 840073)]	CNB2	155	7+3	-	To be in place before commissioning of Project for protecting the existing NSRs (R4431, N4432)	2.2c
	FLN-NB66	FLHY CH 8505 – FLHY CH 8424 [(833248, 838613) – (833323, 838584)]	CNB	80	5+3	-	To be in place before population intake at the committed development at FS-17 (Area 48)	2.2e
	FLN-NB68	D400 CH 101 – D400 CH 190 [(833579, 838472) – (833654, 838425)]	NB	90	5	-	To be in place before commissioning of Project for protecting the existing NSR (R TH6)	2.2e
	FLN-NB69	D400 CH 190 – S002 CH 2081 [(833654, 838425) – (833856, 838188)]	NB	320	5	-	To be in place before commissioning of Project for protecting the existing NSRs (R4763, R TH5, R TH6)	2.2e
	FLN-NB70	FLHY CH 8160 – FLHY CH 7880 [(833556, 838470) – (833778, 838300)]	NB	280	5	-	To be in place before • commissioning of Project for protecting the existing NSR (R4783); or • population intake at the committed development at FS-17 (Area 48)	2.2e
	FLN-NB77	P800 CH 473 – P800 CH 587 [(833615, 838384) – (833707, 838321)]	NB	115	5	-	To be in place before commissioning of Project for protecting the existing NSRs (R4783-4785, R WHS1)	2.2e
	FLN-NB108	FLHY CH 4134 – FLHY CH 4333 [(833372, 838604) – (833533, 838513)]	NB	185	5	-	To be in place before commissioning of Project for protecting the existing NSRs (R4704, R SR7N)	2.2e
	FLN-NB109	FLHY CH 8391 – FLHY CH 8160 [(833357, 838585) – (833556, 838470)]	CNB	230	5+3	-	To be in place before commissioning of Project for protecting the existing NSRs at FS-17 (Area 48)	2.2e
	FLN-NB110	D400 CH 431 – D400 CH 602 [(833848, 838275) – (833901, 838112)]	NB	170	3	-	To be in place before commissioning of Project for protecting the existing NSRs (R4763, R TH5)	2.2e
	FLN-SE11	R11 CH 2448 – R11 CH 2553 [(833266, 840189) – (833283, 840087)]	SE with opening to the	105	-	-	To be in place before commissioning of Project for protecting the existing NSRs (R4431, N4432)	2.2c

Project Area	Mitigation Measure ID	Approximate Chainage [Hong Kong Grid Coordinates]	Type and Approximate Extent of Mitigation Measures				Implementation Programme Mitigation Measures in Place before Population Intake at Site(s)	Corresponding Figure No.
			Type [1]	Length, m	Height, m	Area, m^2		
			east					
	FLN-LNS11	SR05 CH 365 – SR05 CH 470 [(833158, 840346) – (833216, 840261)]	LNS	105	-	635	To be in place before commissioning of Project for protecting the existing NSR (N4432)	2.2c
	FLN-LNS12	SR06 CH 355 – SR06 CH 440 [(833191, 840364) – (833241, 840294)]	LNS	85	-	555	To be in place before commissioning of Project for protecting the existing NSR (N4432)	2.2c
	FLN-LNS13	P301 CH 108 – P302 CH 113 [(833222, 840225) – (833288, 840297]	LNS	250	-	3525	To be in place before commissioning of Project for protecting the existing NSRs (R4431, N4432)	2.2c
	FLN-LNS14	SR07 CH 100 – SR07 CH 360 [(833245, 840220) – (833256, 839953)]	LNS	260	-	1780	To be in place before commissioning of Project for protecting the existing NSRs (R4431, N4432)	2.2c
	FLN-LNS15	SR08 CH 100 – SR08 CH 377 [(833288, 840234) – (833288, 839952)]	LNS	280	-	1880	To be in place before commissioning of Project for protecting the existing NSRs (R4431, R4541)	2.2c

Note:

[1] CNB – 5m vertical noise barrier with 3m cantilevered arm at 45º
CNB2 – 7m vertical noise barrier with 3m cantilevered arm at 45º
FE – Full enclosure
LNS – Low noise road surfacing
NB – Noise Barrier
SE – Semi-enclosure
All the proposed noise barriers are absorptive in terms of acoustic characteristic.

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

LEGEND:

NDA PROJECT BOUNDARY

300m STUDY AREA

N

833600 E

840000 E

838400 N

SHEET 1 OF 7

SHEET 2 OF 7

SHEET 3 OF 7

SHEET 4 OF 7

SHEET 5 OF 7

SHEET 6 OF 7

SHEET 7 OF 7

SHEET 2 OF 4

SHA TAU KOK ROAD – LUNG YEUK TAU

SAN WAN ROAD

FANLING HIGHWAY

FAN KAM ROAD

LUNG YEUK TAU

KEI LAK TSAI

WO HOP SHEK

SHEUNG SHUI

FANLING

PO LENG

TSUNG KEI HANG

LUNG SHAN

TAU ENG PEI

KAU TSA SHAN AU

WONG KONG SHAN

CHONG TSIN

PO LENG AU

TARGET VALLEY

QUEEN'S HILL

Plot File by: LIAN.IZ 2019/9/17

PATH: P:\projects\60335576\drawing\report\nmp\NMP_DP10_740.dgn

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對

STATUS
階段

SCALE 比例

DIMENSION UNIT 尺寸單位

KEY PLAN
索引圖

PROJECT NO. 項目編號

60335576

CONTRACT NO. 合約編號

CE 13/2014 (CE)

SHEET TITLE
圖紙名稱

LATEST PROPOSAL OF TRAFFIC NOISE MITIGATION MEASURES (ZOOM IN) - KEY PLAN

SHEET NUMBER
圖紙編號

60335576/NMP/DP10/APPENDIX 2.7a

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/NMP/DP10/APPENDIX 2.7b TO APPENDIX 2.7h.

LEGEND:

- NDA PROJECT BOUNDARY
- 300m STUDY AREA
- PROPOSED 2m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 3m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 4m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 6m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- FIXED WINDOW DESIGN WITH VENTILATION SYSTEM
- EXISTING BARRIER
- PROPOSED SEMI ENCLOSURE (WITH OPENING SIDE)
- PROPOSED FULL ENCLOSURE
- PROPOSED LOW NOISE ROAD SURFACING
- LOW NOISE ROAD SURFACING PROVISION FOR ROAD TRAFFIC SPEED HIGHER THAN 80KPH
- NOISE MITIGATION MEASURES UNDER EP-473/2013/A

832300 E

832500 E

832700 E

N

840800 N

840600 N

FLN-NB21 (APPROXIMATE CHAINAGE: R11 CH 951 - R11 CH 1372)

FLN-NB15

FLN-NB97

FLN-NB92

FLN-LNS91

FLN-NB93

FLN-NB49

FLN-LNS93

FLN-NB96

FLN-NB95

FLN-NB94

FLN-NB76

FLN-NB50

FLN-LNS92

FLN-NB55

FLN-NB54

FLN-LNS58

FLN-NB59

CUT LINE 1-1

SEE DRAWING NO. 60335576/NMP/DP10/APPENDIX 2.7c

C2-4

C2-6

C2-10

C2-7

C2-9

D2-1

D2-2

D2-3

D2-4

D3-1a

D3-1b

D3-3

D3-5

D3-6

WU NGA LOK YEUNG

NG TUNG RIVER

NG TUNG RIVER (RIVER INDUS)

梧桐河

石湖新村

Shek Wu San Tsuen

Plot File by: LIANJ2 2019/9/26
PATH: P:\PROJECTS\60335576\Drawing\REPORT\NMP\NMP_DP10_741.dgn

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

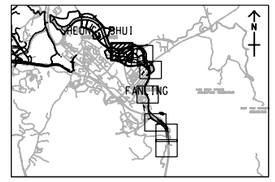
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核查

STATUS
階段

SCALE 比例: A1 1 : 1000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A1 1 : 100000



PROJECT NO. 項目編號: 60335576

CONTRACT NO. 合約編號: CE 13/2014 (CE)

SHEET TITLE 圖紙名稱

LATEST PROPOSAL OF TRAFFIC NOISE MITIGATION MEASURES (ZOOM IN)

SHEET 1 OF 7

SHEET NUMBER 圖紙編號

60335576/NMP/DP10/APPENDIX 2.7b

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

832700 E

832900 E

833100 E

CUT LINE 1-1
SEE DRAWING NO. 60335576/NMP/DP10/APPENDIX 2.7b

840800 N

840600 N

840400 N

FLN-NB22 (APPROXIMATE CHAINAGE: R11 CH 1601 - R11 CH 1783)

FLN-NB23 (APPROXIMATE CHAINAGE: R11 CH 1783 - R11 CH 2130)

FLN-NB24 (APPROXIMATE CHAINAGE: R11 CH 2107 - R11 CH 2256)

FLN-NB55

FLN-NB56

FLN-LNS59

FLN-LNS12

D2-5

D2-6

D2-7

D2-8

D2-9

D2-10

D2-11

D1-4

D3-4

D3-7

CUT LINE 2-2
SEE DRAWING NO. 60335576/NMP/DP10/APPENDIX 2.7d

MA WAT RIVER

宣道園
Suen Douh Camp

新屋村
San Uk Tsuen

足球場
Football Field

籃球場
Basketball Court

NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/NMP/DP10/APPENDIX 2.7b TO APPENDIX 2.7h.

LEGEND:

- NDA PROJECT BOUNDARY
- 300m STUDY AREA
- PROPOSED 2m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 3m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 4m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 6m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- FIXED WINDOW DESIGN WITH VENTILATION SYSTEM
- EXISTING BARRIER
- PROPOSED SEMI ENCLOSURE (WITH OPENING SIDE)
- PROPOSED FULL ENCLOSURE
- PROPOSED LOW NOISE ROAD SURFACING
- LOW NOISE ROAD SURFACING PROVISION FOR ROAD TRAFFIC SPEED HIGHER THAN 80KPH
- NOISE MITIGATION MEASURES UNDER EP-473/2013/A

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

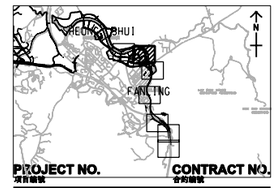
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對

STATUS
階段

SCALE 比例
A1 1 : 1000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 100000



PROJECT NO. 項目編號
60335576

CONTRACT NO. 合約編號
CE 13/2014 (CE)

SHEET TITLE
圖紙名稱

LATEST PROPOSAL OF TRAFFIC NOISE MITIGATION MEASURES (ZOOM IN)

SHEET 2 OF 7

SHEET NUMBER
圖紙編號

60335576/NMP/DP10/APPENDIX 2.7c

Plot File by: LIAN,XZ 2019/9/30
PATH T:\PROJECTS\60335576\DRAWING\REPORT\NMP\NMP_DP10_742.dgn

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

FLN-NB24 (APPROXIMATE CHAINAGE: R11 CH 2107 - R11 CH 2256)

FLN-LNS60

CUT LINE 2-2

SEE DRAWING NO. 60335576/NMP/DP10/APPENDIX 2.7c

FLN-LNS12 (APPROXIMATE CHAINAGE: SR06 CH 355 - SR06 CH 440)

FLN-LNS95

FLN-SE22

FLN-LNS11 (APPROXIMATE CHAINAGE: SR05 CH 365 - SR05 CH 470)

FLN-LNS13 (APPROXIMATE CHAINAGE: P301 CH108 - P302 CH113)

FLN-LNS98

FLN-SE21

FLN-NB35 (APPROXIMATE CHAINAGE: SR08 CH 104 - SR08 CH 259)

FLN-NB33b (APPROXIMATE CHAINAGE: SR07 CH 112 - SR07 CH 115)

FLN-LNS61

FLN-NB33a (APPROXIMATE CHAINAGE: SR07 CH 115 - SR07 CH 155)

FLN-NB34 (APPROXIMATE CHAINAGE: P303 CH 156 - P303 CH 221)

FLN-LNS14 (APPROXIMATE CHAINAGE: SR07 CH 100 - SR07 CH 365)

FLN-SE11 (APPROXIMATE CHAINAGE: R11 CH 2448 - R11 CH 2553)

FLN-LNS15 (APPROXIMATE CHAINAGE: SR08 CH 100 - SR08 CH 377)

833100 E

833300 E

833500 E

840400 N

840200 N

840000 N

D2-11 D2-12 D2-13 D2-14 D2-15 D2-16 D2-17 D1-5 D1-6

CLOSED SIDE

OPENING SIDE

N

NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/NMP/DP10/APPENDIX 2.7b TO APPENDIX 2.7h.

LEGEND:

- NDA PROJECT BOUNDARY
- 300m STUDY AREA
- PROPOSED 2m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 3m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 4m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 6m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- FIXED WINDOW DESIGN WITH VENTILATION SYSTEM
- EXISTING BARRIER
- PROPOSED SEMI ENCLOSURE (WITH OPENING SIDE)
- PROPOSED FULL ENCLOSURE
- PROPOSED LOW NOISE ROAD SURFACING
- LOW NOISE ROAD SURFACING PROVISION FOR ROAD TRAFFIC SPEED HIGHER THAN 80KPH
- NOISE MITIGATION MEASURES UNDER EP-473/2013/A

AECOM

PROJECT 項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT 業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

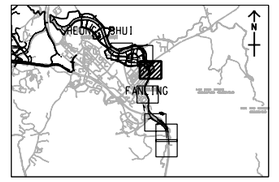
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對

STATUS 階段

SCALE 比例 — A1 1 : 1000

DIMENSION UNIT 尺寸單位 — METRES

KEY PLAN 索引圖 A1 1 : 100000



PROJECT NO. 項目編號 — 60335576

CONTRACT NO. 合約編號 — CE 13/2014 (CE)

SHEET TITLE 圖紙名稱

LATEST PROPOSAL OF TRAFFIC NOISE MITIGATION MEASURES (ZOOM IN)

SHEET 3 OF 7

SHEET NUMBER 圖紙編號

60335576/NMP/DP10/APPENDIX 2.7d

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

Plot File by:- TangBo 2019/11/26
PATH T:\PROJECTS\60335576\Drawing\REPORT\NMP\NMP_DP10_743.dgn

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

817700 N

832900 E

833100 E

833300 E

839400 N

839200 N

FLN-NB27
(APPROXIMATE
CHAINAGE:
R11 CH 3091 -
R11 CH 3138)

FLN-NB31
(APPROXIMATE
CHAINAGE:
R11 CH 3214 -
R11 CH 3255)

FLN-NB32
(APPROXIMATE
CHAINAGE:
R11 CH 3566 -
R11 CH 3598)

N

NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/NMP/DP10/APPENDIX 2.7b TO APPENDIX 2.7h.

LEGEND:

- NDA PROJECT BOUNDARY
- 300m STUDY AREA
- PROPOSED 2m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 3m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 4m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 6m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- FIXED WINDOW DESIGN WITH VENTILATION SYSTEM
- EXISTING BARRIER
- PROPOSED SEMI ENCLOSURE (WITH OPENING SIDE)
- PROPOSED FULL ENCLOSURE
- PROPOSED LOW NOISE ROAD SURFACING
- LOW NOISE ROAD SURFACING PROVISION FOR ROAD TRAFFIC SPEED HIGHER THAN 80KPH
- NOISE MITIGATION MEASURES UNDER EP-473/2013/A

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

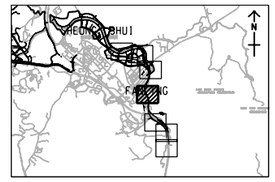
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對

STATUS
階段

SCALE 比例
A1 1 : 1000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 100000



PROJECT NO. 項目編號
60335576

CONTRACT NO. 合約編號
CE 13/2014 (CE)

SHEET TITLE
圖紙名稱

LATEST PROPOSAL OF TRAFFIC NOISE MITIGATION MEASURES (ZOOM IN)

SHEET 4 OF 7

SHEET NUMBER
圖紙編號

60335576/NMP/DP10/APPENDIX 2.7e

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

Plot File by: LIAN,IZ 2019/9/26
PATH: P:\projects\60335576\drawing\report\nmp\NMP_DP10_744.dgn

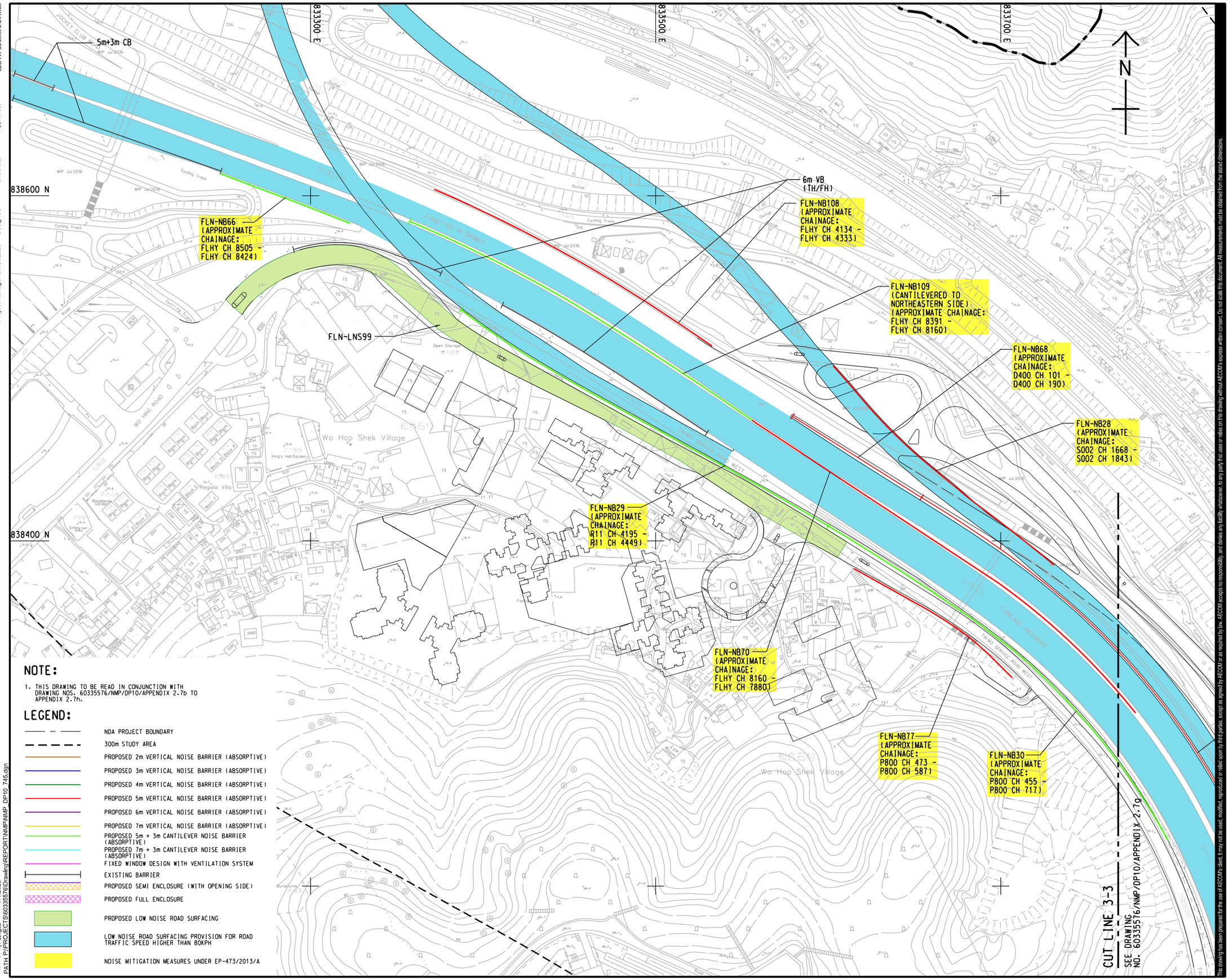
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:



NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/NMP/DP10/APPENDIX 2.7b TO APPENDIX 2.7h.

LEGEND:

- NDA PROJECT BOUNDARY
- 300m STUDY AREA
- PROPOSED 2m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 3m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 4m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 6m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- FIXED WINDOW DESIGN WITH VENTILATION SYSTEM
- EXISTING BARRIER
- PROPOSED SEMI ENCLOSURE (WITH OPENING SIDE)
- PROPOSED FULL ENCLOSURE
- PROPOSED LOW NOISE ROAD SURFACING
- LOW NOISE ROAD SURFACING PROVISION FOR ROAD TRAFFIC SPEED HIGHER THAN 80KPH
- NOISE MITIGATION MEASURES UNDER EP-473/2013/A

Plot File by: Ling\2 7/4/2023
PATH: P:\PROJECTS\60335576\0Drawing\REPORT\NMP\NMP_DP10_745.dgn

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT 項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT 業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

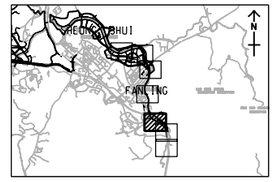
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核

STATUS 階段

SCALE 比例 A1 1 : 1000

DIMENSION UNIT 尺寸單位 METRES

KEY PLAN 索引圖 A1 1 : 100000



PROJECT NO. 項目編號 60335576

CONTRACT NO. 合約編號 CE 13/2014 (CE)

SHEET TITLE 圖紙名稱

LATEST PROPOSAL OF TRAFFIC NOISE MITIGATION MEASURES (ZOOM IN)

SHEET 5 OF 7

SHEET NUMBER 圖紙編號

60335576/NMP/DP10/APPENDIX 2.7f

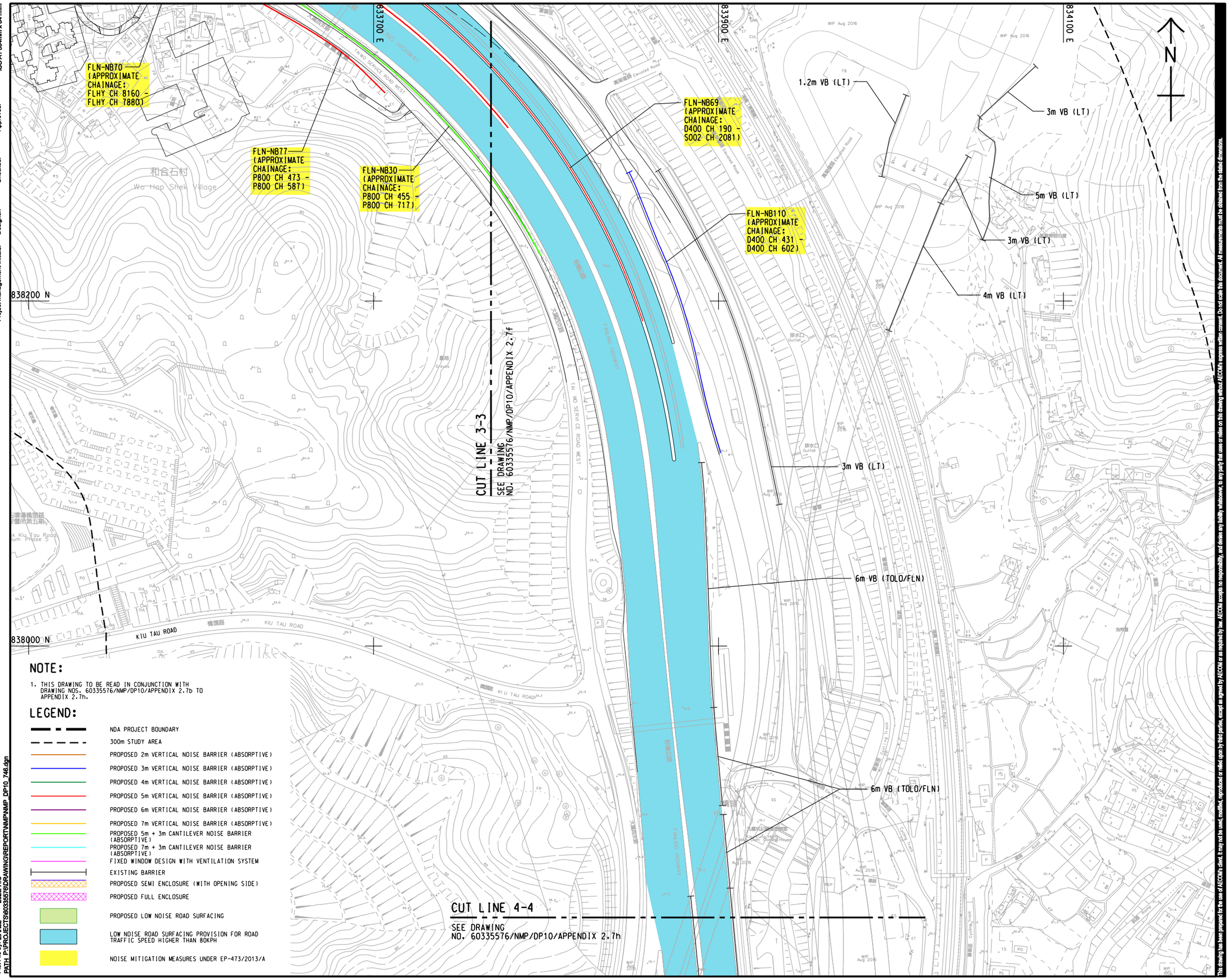
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:



NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/NMP/DP10/APPENDIX 2.7b TO APPENDIX 2.7h.

LEGEND:

- NDA PROJECT BOUNDARY
- 300m STUDY AREA
- PROPOSED 2m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 3m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 4m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 6m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- FIXED WINDOW DESIGN WITH VENTILATION SYSTEM
- EXISTING BARRIER
- PROPOSED SEMI ENCLOSURE (WITH OPENING SIDE)
- PROPOSED FULL ENCLOSURE
- PROPOSED LOW NOISE ROAD SURFACING
- LOW NOISE ROAD SURFACING PROVISION FOR ROAD TRAFFIC SPEED HIGHER THAN 80KPH
- NOISE MITIGATION MEASURES UNDER EP-473/2013/A

Plot File by: LIANJ2 2020/11/5
PATH: P:\PROJECTS\60335576\DRAWING\REPORT\NMP\NMP_DP10_746.dgn

AECOM

PROJECT 項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT 業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

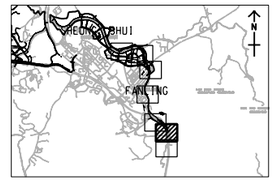
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核查

STATUS 階段

SCALE 比例
A1 1 : 1000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 100000



PROJECT NO. 項目編號
60335576

CONTRACT NO. 合約編號
CE 13/2014 (CE)

SHEET TITLE 圖紙名稱
LATEST PROPOSAL OF TRAFFIC NOISE MITIGATION MEASURES (ZOOM IN)

SHEET 6 OF 7

SHEET NUMBER 圖紙編號
60335576/NMP/DP10/APPENDIX 2.7g

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimension.

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

Plot File by: LIAN,V2 2020/11/5
PATH: P:\PROJECTS\60335576\DRAWING\REPORT\NMP\NMP_DP10_747.dgn

833500 E
833700 E
833900 E

837800 N
837600 N
837400 N

CUT LINE 4-4

SEE DRAWING
NO. 60335576/NMP/DP10/APPENDIX 2.7g

8m VB (TOLO/FLN)
2.5m VB (LT)
3.2m VB (LT)
1.7m VB (LT)
3m VB (LT)
8m CB (TOLO/FLN)
0.8m VB (LT)
4m VB (TOLO/FLN)
4m VB (TOLO/FLN)
6m VB (TOLO/FLN)
0.8m VB (TOLO/FLN)
8m VB (TOLO/FLN)
6m VB (TOLO/FLN)

6m VB (TOLO/FLN)
5m VB (TOLO/FLN)
4m VB (TOLO/FLN)
4m VB (TOLO/FLN)
8m CB (TOLO/FLN)
7m VB (TOLO/FLN)
7m VB (TOLO/FLN)

N

NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60335576/NMP/DP10/APPENDIX 2.7b TO APPENDIX 2.7h.

LEGEND:

- NDA PROJECT BOUNDARY
- 300m STUDY AREA
- PROPOSED 2m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 3m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 4m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 6m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m VERTICAL NOISE BARRIER (ABSORPTIVE)
- PROPOSED 5m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- PROPOSED 7m + 3m CANTILEVER NOISE BARRIER (ABSORPTIVE)
- FIXED WINDOW DESIGN WITH VENTILATION SYSTEM
- EXISTING BARRIER
- PROPOSED SEMI ENCLOSURE (WITH OPENING SIDE)
- PROPOSED FULL ENCLOSURE
- PROPOSED LOW NOISE ROAD SURFACING
- LOW NOISE ROAD SURFACING PROVISION FOR ROAD TRAFFIC SPEED HIGHER THAN 80KPH
- NOISE MITIGATION MEASURES UNDER EP-473/2013/A

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1 - DESIGN AND CONSTRUCTION

CLIENT
業主

CEDD 土木工程拓展署 Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

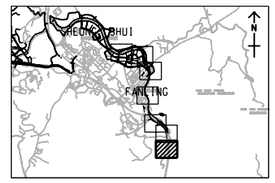
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核查

STATUS
階段

SCALE 比例: A1 1 : 1000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A1 1 : 100000



PROJECT NO. 項目編號: 60335576

CONTRACT NO. 合約編號: CE 13/2014 (CE)

SHEET TITLE 圖紙名稱

LATEST PROPOSAL OF TRAFFIC NOISE MITIGATION MEASURES (ZOOM IN)

SHEET 7 OF 7

SHEET NUMBER 圖紙編號

60335576/NMP/DP10/APPENDIX 2.7h

[END]

[BLANK]