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Attention: Mr. Chris Ho

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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

Kwu Tung North New Development Area Road P1 and P2 and Associated New Kwu Tung Interchange and Pak Shek Au Interchange Improvement -
Environmental Permit No. EP-467/2013/A: Traffic Noise Mitigation Plan (Condition 2.6)

2 September 2022

BY EMAIL

Dear Sir,

Reference is made to the AECOM's submission of the Traffic Noise Mitigation Plan (Rev.A) (v.5) (EP Condition 2.6) in accordance with the Environmental Permit (No. EP-467/2013/A) certified by the ET Leader on 1 September 2022.

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 2.6 of EP-467/2013/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

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Our Ref: WMA20002/AECOM/mm220901_C2.6

AECOM

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

By Mail
1st September 2022

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
- **Kwu Tung North Development Area Road P1 and P2 and Associated New Kwu Tung Interchange and Pak Shek Au Interchange Improvement**

Environmental Permit No. EP-467/2013/A:
Submission of Traffic Noise Mitigation Plan (Condition 2.6)

I refer to the Traffic Noise Mitigation Plan (Rev. A) (v.5) (EP Condition 2.6) submitted to us via email dated 1st September 2022 (Ref. EP-467/2013/A-3).

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-467/2013/A), Condition 1.9 and 2.6.

If you need any further information, please call our Mr. Marco Ma at 2151 2073 or me at 2151 2089 / 9161 7287.

Yours faithfully,
WELLAB Limited

Dr. Priscilla Choy
Environmental Team Leader

c.c. CEDD (Attn: Mr. Raymond Cheng) By e-mail: kmcheng@cedd.gov.hk
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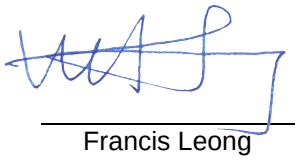
土 木 工 程 拓 展 署
Civil Engineering and Development Department
North Development Office

Agreement No. CE 19/2019 (CE)

Development of Kwu Tung North New Developments Area, Remaining Phase – Design and Construction

Traffic Noise Mitigation Plan (Version A)

September 2022

Reviewed:  02 September 2022

Francis Leong

Approved for Issue: 02 September 2022

Stephen Lai

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 20/2019 (HY) Improvement of Tai Tau Leng Roundabout and Fanling Highway (Kwu Tung Section) – 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.*

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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 KTN NDA Road P1, P2 and Associated New Kwu Tung Interchange and Pak Shek Au Interchange Improvement (hereinafter known as "the Project"), which is defined as Designated Project 3 (DP3) in the EIA Report, is governed by EP-467/2013. The location of the Project is shown in **Figure 1.1**.

1.1.3 Variation of environmental permit (VEP) for the Project was subsequently applied for the proposed changes under Agreement No. CE 13/2014 – Development of Kwu Tung North and Fanling North New Development Areas, Phase 1 – Design and Construction (D&C) (the First Phase Assignment) and the latest Environmental Permit (EP No: EP-467/2013/A) was issued by DEP on 27 January 2017.

1.1.4 Pursuant to EP Condition 2.6, 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 the 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 Traffic Noise Mitigation Plan (TNMP) (April 2019) under EP-467/2013/A had been submitted under the First Phase Assignment and approved by DEP in August 2019. During the planning and engineering (P&E) review under Agreement No. CE 19/2019 – Development of Kwu Tung North New Development Areas, Remaining Phase – Design and Construction (D&C), minor changes in the road alignment of the Project were proposed based on the findings of the planning and engineering review (**Appendix 1.1** refers). 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, the predicted degree of noise exceedances has been made known to relevant parties (i.e. Housing Department / Housing Society / Lands Department) by CEDD, and these parties agreed to adopt the commonly used at receiver-end NMMs (e.g. acoustic windows and acoustic balconies) subject to the detailed design of respective sites. At source traffic noise mitigation measures proposed for the Project are presented in **Appendix 1.2**.

1.1.6 AECOM Asia Co Ltd was commissioned by the CEDD to update the TNMP for submission to DEP for approval.

1.2 Objective of this Traffic Noise Mitigation Plan

1.2.1 This TNMP (Revision A) has been prepared to demonstrate the traffic noise performance requirements set out in the EIA Report (Register No.: AEIAR-175/2013) for the Project will not be exceeded with both at source and at receiver end mitigation measures in place.

2 REVIEW ON TRAFFIC NOISE MITIGATION MEASURES

2.1 Introduction

2.1.1 As mentioned in **Section 1.1.5**, an updated road alignment and the associate traffic noise mitigation measures proposal was developed (**Appendices 1.1** and **1.2** refer). This section presents the road traffic noise assessment findings and the performance of the traffic noise mitigation measures.

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 70 dB(A) for domestic premises, hotels, hostels and offices, and 65 dB(A) for educational institutes and places of worship. A more stringent criterion of 55 dB(A) is stipulated for hospitals, clinics etc. It should be noted that all these criteria only apply to Noise Sensitive Receivers (NSRs) that rely on opened windows for ventilation.

2.3 Representative Noise Sensitive Receivers

2.3.1 The representative NSRs generally follow those as adopted in the approved TNMP (April 2019), while the assessment points have been updated based on the updated information on blocking layout. Details of the revised representative NSRs are presented in **Table 2.1**.

2.3.2 The provision of social welfare facilities and kindergartens would increase due to the additional population and the associated increased demand and their locations have also updated according to the latest planning arrangement. Except for the proposed Kindergartens and Residential Care Home for the Elderly (RCHE) at Site A1-2 and the Multi-Welfare Services Complex (MWSC) at Site B2-5, the exact locations for other proposed social welfare facilities, homes for the elderly and kindergartens within the KTN NDA are not yet confirmed during this assessment. Therefore, following the same assessment approach as adopted in the EIA Report, a sensitivity test on the potential road traffic noise impact has been conducted at the proposed social welfare facilities, homes for the elderly and kindergartens. It should be noted that, during the design of the social welfare facilities and kindergartens, noise sensitive uses should be located to avoid exceedance as far as practicable. The locations of the assessment points for the proposed kindergarten and RCHEs at Site A1-2 and the MWSC at Site B2-5 are updated according to the finalised layout provided by Housing Society (HS) and Architectural Service Department (ArchSD) in January 2022 and May 2022, respectively.

2.3.3 Details of the representative NSRs for residential use, educational use, social welfare facilities, homes for the elderly and kindergartens are presented in **Table 2.1** with all the proposed assessment points **Figures 2.1.1 – 2.1.11**.

Table 2.1 Details of Representative Noise Sensitive Receivers

NSR	Assessment Points (APs) (1)	Revised / New APs (2)	Land Use (3)	Status	No. of Floor	Traffic Noise Criterion, L10(1hr), dB(A)	Remarks
A3-7	R2141	-	R	Existing	3	70	-
C1-4	R2001, R2102 to R2013	-	R	Existing	3	70	-
D1-6	-	E0002 to E0006	R	Existing	1 - 2	70	New NSR identified during design changes
D1-9	R2041 to R2043, R2046 to R2047, N2046 to N2047	-	R	Existing	3	70	-
H1-1	R1504, R1506, N1505	R1506, E0001	R	Existing	1 - 2	70	Alternative NSR identified during

NSR	Assessment Points (APs) [1]	Revised / New APs [2]	Land Use [3]	Status	No. of Floor	Traffic Noise Criterion, L10(1hr), dB(A)	Remarks
							latest site visit. R1504 is removed and to be assessed under a separate feasibility study of Ma Tso Lung Area
KTN-1	R1001 to R1005	-	W, E, R	Existing	1 - 3	65 - 70	-
KTN-2	R1021 to R1034	-	E, R	Existing	1 - 4	65 - 70	-
KTN-4	R1041 to R1043	-	R	Existing	2 - 3	70	-
KTN-P2	R1541 to R1546	-	-	-	-	-	There will be new residential development at the area where the APs are located and therefore R1541 - R1546 are removed
KTN-P6	R1521, R1523 to R1527	-	R	Existing	4	70	-
KTN-7	R1061	-	E	Existing	2	65	-
KTN-9	R1085 to R1090	-	R	Existing	3	70	-
KTN-11	R1102 to R1107	-	R	Existing	3	70	-
KTN-12	R1121	-	R	Existing	2	70	-
KTN-20	R1161 to R1162	-	R	Existing	3	70	-
KTN-32	R1181 to R1186	-	R	Existing	3	70	-
KTN-33	R1201 to R1202	-	-	-	-	-	APs were removed and to be assessed under a separate feasibility study of Ma Tso Lung Area
KTN-45	R1501 to R1502	-	-	-	-	-	APs were removed and to be assessed under a separate feasibility study of Ma Tso Lung Area
KTN-46	R1241	-	-	-	-	-	APs were removed and to be assessed under a separate feasibility study of Ma Tso Lung Area
KTN-48	R1281 to R1282, R1284 to R1290	-	R	Existing	4	70	-
KTN-49	R1301	-	R	Existing	2	70	-
KTN-50	R1681 to R1682	-	R	Existing	2	70	-
A1-2	N2500 to N2510 (Residential)	A1-2-1 to A1-2-34 (Residential)	R	Planned	34 - 36	70	Best available information from HS
	N6681 to N6683 (Social Welfare)	A1-2-s1 to A1-2-s13 (Social Welfare)	R		2	70	
	N6161 to N6175 (Kindergartens)	A1-2-k1 to A1-2-k7 (Kindergartens)	E		1	65	
A1-4a	R2521 to R2522, N2542, N2545 (Residential)	A1-4a-1 to A1-4a-17 (Residential)	R	Planned	27	70	Updated APs based on updated design

NSR	Assessment Points (APs) (1)	Revised / New APs (2)	Land Use (3)	Status	No. of Floor	Traffic Noise Criterion, L10(1hr), dB(A)	Remarks
	R6261 to R6267, R6271, N6269 to N6270, N6315 to N6318 (Kindergartens)	-	-	-	-	-	
A1-5a	R2541, N2542 to N2545 (Residential)	A1-5a-1 to A1-5a-46 (Residential)	R	Planned	25 - 26	70	Updated APs based on updated design
	R6301 to R6314 (Kindergartens)	-	-	-	-	-	
A1-6	R2561 (Residential)	A1-6-1 to A1-6-2 (Residential)	R	Planned	26	70	Updated / removed APs based on updated design
	R6831 to R6851 (Social Welfare)	-	-	-	-	-	
	R6331 to R6351 (Kindergartens)	A1-6-k1 to A1-6-k21 (Kindergartens)	E	Planned	1	65	
A1-8	N2581 to N2583 (Residential)	A1-8-1 to A1-8-3 (Residential)	R	Planned	34	70	Updated APs based on updated design
	-	A1-8-s1 to A1-8-s7 (Social Welfare)	R		2	70	
	R6381 to R6392 (Kindergartens)	A1-8-k1 to A1-8-k7 (Kindergartens)	E		2	65	
A1-9a	R2606 to R2610 (Residential)	A1-9a-1 to A1-9a-7 (Residential)	R	Planned	18	70	Updated APs based on updated design
A1-9b	R2601 to R2605, R2611, N2612 (Residential)	A1-9b-1 to A1-9b-9 (Residential)	R	Planned	17	70	Updated APs based on updated design
A2-2a	N2621 to N2627 (Residential)	A2-2a-1 to A2-2a-5 (Residential)	R	Planned	38 - 40	70	Best available information from HD
	-	A2-2a-s1 to A2-2a-s41 (Social Welfare)	R	Planned	1 - 2	70	Updated APs based on updated design
	N6220 to N6238 (Kindergartens)	A2-2a-k1 to A2-2a-k41 (Kindergartens)	E	Planned	1 - 2	65	Updated APs based on updated design
A2-2b	N2628 to N2640	A2-2b-1 to A2-2b-4 (Residential)	R	Planned	38	70	Best available information from HD
	-	A2-2b-s1 to A2-2b-s23 (Social Welfare)	R		1 - 3	70	Updated APs based on updated design
	N6201 to N6213 (Kindergartens)	A2-2b-k1 to A2-2b-k23 (Kindergartens)	E		1 - 3	65	
A2-4	N2641 (Residential)	A2-4-1 to A2-4-2 (Residential)	R	Planned	32	70	Updated / removed APs based on updated design
	N6141 to N6148 (Kindergartens)	-	-	-	-	-	
A2-5	R2661	A2-5-1 to A2-5-2 (Residential)	R	Planned	26	70	Updated / removed APs based on updated design
	R6581 to R6592 (Social Welfare)	-	-	-	-	-	
	-	A2-5-k1 to A2-5-k6 (Kindergartens)	E	Planned	2	65	
A2-7	N2681 to N2683 (Residential)	A2-7-1 to A2-7-4 (Residential)	R	Planned	37	70	Updated APs based on updated design
	N6613 to N6614 (Social Welfare)	A2-7-s1 to A2-7-s20 (Social Welfare)	R		2 - 5	70	
	N6113 to N6132 (Kindergartens)	A2-7-k1 to A2-7-k20 (Kindergartens)	E		2 - 5	65	
A2-9a	R2701 to R2702 (Residential)	A2-9a-1 to A2-9a-3 (Residential)	R	Planned	18	70	Updated APs based on updated design

NSR	Assessment Points (APs) (1)	Revised / New APs (2)	Land Use (3)	Status	No. of Floor	Traffic Noise Criterion, L10(1hr), dB(A)	Remarks
A2-9b	R2703 to R2707 (Residential)	A2-9b-1 to A2-9b-7 (Residential)	R	Planned	19	70	Updated APs based on updated design
A2-11	R3222 to R3223 (Schools)	A2-11-1 to A2-11-3 (Schools)	E	Planned	8	65	Updated APs based on updated design
A2-12	R3241 (Schools)	A2-12-1 to A2-12-3 (Schools)	E	Planned	8	65	Updated APs based on updated design
A2-13	R3264 to R3265 (Schools)	A2-13-1 to A2-13-3 (Schools)	E	Planned	8	65	Updated APs based on updated design
A3-1	R3282 (Schools)	A3-1-1 to A3-1-2 (Schools)	E	Planned	8	65	Updated APs based on updated design
A3-2	N3301 to N3302 (Schools)	A3-2-1 to A3-2-2 (Schools)	E	Planned	8	65	Updated APs based on updated design
A3-3a	N2721, N2726a-b, N2727a-b, N2728, N2730, N2731a-b (Residential)	A3-3a-1, A3-3a-2a to A3-3a-2b, A3-3a-3a to A3-3a-3b, A3-3a-4a to A3-3a-4b, A3-3a-5 to A3-3a-6 (Residential)	R	Planned	41	70	Updated APs based on updated design
	N6001 to N6004 (Social Welfare)	A3-3a-s1 to A3-3a-s32 (Social Welfare)	R		2 - 5	70	
	N6001 to N6019, N6040 to N6052 (Kindergartens)	A3-3a-k1 to A3-3a-k32 (Kindergartens)	E		2 - 5	65	
A3-3b	N2722 to N2723, N2725, N2729a-b (Residential)	A3-3b-1a to A3-3b-1b, A3-3b-2a to A3-3b-2b, A3-3b-3 to A3-3b-6 (Residential)	R	Planned	41	70	Updated APs based on updated design
	N6020 to N6022 (Social Welfare)	A3-3b-s1 to A3-3b-s16 (Social Welfare)	R		2 - 5	70	
	N6020 to N6035 (Kindergartens)	A3-3b-k1 to A3-3b-k16 (Kindergartens)	E		2 - 5	65	
A3-4	N3381 to N3382 (Schools)	A3-4-1 to A3-4-2 (Schools)	E	Planned	8	65	Updated APs based on updated design
A3-6	R2741 to R2747 (Residential)	A3-6-1 to A3-6-8 (Residential)	R	Planned	18	70	Updated APs based on updated design
B1-1	N3001 to N3003 (Schools)	-	-	-	-	-	APs removed based on updated design
B2-3	-	B2-3-1 to B2-3-3 (Schools)	E	Planned	8	65	New NSRs based on updated design
B2-5	N-1 to N-6, E-1 to E-5, SI-1 to SI-6, W-1 to W-5, W-G, NI-1 to NI-6 (Social Welfare)	B2-5-G1 to B2-5-G13, B2-5-1 to B2-5-25 (Social Welfare)	R, S	Planned	8	55 - 70	Best available information from ArchSD
B2-6	N3421 to N3422 (Schools)	B2-6-1 to B2-6-3 (Schools)	E	Planned	8	65	Updated APs based on updated design

NSR	Assessment Points (APs) [1]	Revised / New APs [2]	Land Use [3]	Status	No. of Floor	Traffic Noise Criterion, L10(1hr), dB(A)	Remarks
B2-7	N3441 to N3442 (Schools)	-	-	-	-	-	APs removed based on updated design
	-	B2-7-k1 to B2-7-k4 [4] (Kindergartens)	E	Planned	1	65	New NSRs based on updated design
B2-8	N3401 to N3403 (Schools)	-	-	-	-	-	APs removed based on updated design
	N6781 to N6784 (Social Welfare)	-	-	-	-	-	
B2-10	R2761 to R2764 (Residential)	B2-10-1 to B2-10-4 (Residential)	R	Planned	16	70	Updated APs based on updated design
	R6861 to R6867 (Social Welfare)	-	-	-	-	-	APs removed based on updated design
	-	B2-10-k1 to B2-10-k7 (Kindergartens)	E	Planned	4	65	New NSRs based on updated design
B3-5a	-	B3-5a-1 to B3-5a-15 (Residential)	R	Planned	18	70	New NSRs based on updated design
B3-8	-	B3-8-1 to B3-8-6 (Residential)	R	Planned	16	70	New NSRs based on updated design
C1-3	R2021 to R2024 (Residential)	C1-3-1 to C1-3-4 (Residential)	CDA	Planned	3	70	The main building of Enchi Lodge is a Grade 3 Historical Building and forms a part of the CDA site. It would be refurbished to clubhouse which is not considered as NSR. Thus, R2021 was removed.
D1-5	R3481 (Residential)	-	R	Planned	3	70	-
D1-7a	N2788 to N2792 (Residential)	D1-7a-1 to D1-7a-5 (Residential)	R	Planned	22	70	Updated APs based on updated design
D1-7b	N2787, N2793 (Residential)	D1-7b-1 to D1-7b-4 (Residential)	R	Planned	21	70	Updated APs based on updated design
D1-7c	N2784 to N2786, N2794 (Residential)	D1-7c-1 to D1-7c-6 (Residential)	R	Planned	17	70	Updated APs based on updated design
D1-7d	R2781 to R2783 (Residential)	D1-7d-1 to D1-7d-4 (Residential)	R	Planned	20	70	Updated APs based on updated design
D1-11a	R2821 to R2824, N2834 to N2835 (Residential)	D1-11a-1 to D1-11a-6 (Residential)	R	Planned	22	70	Updated APs based on updated design
D1-11b	R2825 to R2828, N2833 (Residential)	D1-11b-1 to D1-11b-6 (Residential)	R	Planned	21	70	Updated APs based on updated design
D1-11c	R2828 to R2830, N2831 to N2832 (Residential)	D1-11c-1 to D1-11c-5 (Residential)	R	Planned	17 - 20	70	Updated APs based on updated design
E1-2	R2862 to R2863 (Schools)	E1-2-1 to E1-2-3 (Schools)	E	Planned	8	65	Updated APs based on updated design

NSR	Assessment Points (APs) (1)	Revised / New APs (2)	Land Use (3)	Status	No. of Floor	Traffic Noise Criterion, L10(1hr), dB(A)	Remarks
E1-3	R3701 to R3704 (Residential)	E1-3-1 to E1-3-10 (Residential)	R	Planned	18 - 20	70	Best available information from ArchSD
E1-4	R3721 (Schools)	E1-4-1 (Schools)	E	Planned	8	65	Updated APs based on updated design
F1-3	R2841 to R2848 (Other Uses)	-	-	-	-	-	Buildings located in the Site zoned as "B&TP" are not considered as NSRs and therefore APs are removed
KTS	-	KTS14_1, KTS484_1 to KTS484_5, SHK_1 to SHK_2 (Residential)	CDA	Planned	2 - 19	70	New APs based on OZP Planned Developments at Kwu Tung South

Notes:
(1) Reference was made from Planning and Engineering Review for According Additional Population in KTN and FLN NDAs and for Remaining Package of NDAs – Report on Environmental Review (July 2017) ("P&ER ERR") and the approved TNMP (April 2019).
(2) The revised / new assessment points at representative NSRs, where applicable, have been identified for road traffic noise assessment according to the best available information during the preparation of this TNMP.
(3) R – Residential; PRH – Public Rental Housing; SSF – Subsidised Sale Flats; E – Educational; CDA – Comprehensive Development Areas; S – Sick Bay; W – Public Worship.
(4) There is a planned kindergarten of 1-storey high in Site B2-7, which will be zoned as Government Use.

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 The commencement year of the proposed road networks under the Remaining Phase Assignment is 2031. According to the "*Hong Kong Population Projections 2020-2069*" which was published by Census and Statistics Department, the population in Hong Kong will reach its peak in 2041 and drop continuously thereafter. It is expected that the traffic forecast, which is related to the population, would also drop continuously after 2041. However, as a conservative assumption, the population drop after 2041 is not considered in the traffic forecast, and the year with maximum traffic flow within a 15-year period upon commencement of operation of the road works is assumed to be 2046. Traffic forecast for 2046 as adopted in the assessment is presented in **Appendix 2.1**.

2.4.3 As mentioned in **Section 2.4.2**, the population in Hong Kong will reach the peak in 2041 and will drop continuously after. Therefore, under the scenario of without the NENT NDA Project, it is anticipated that there will be no significant population growth and changes in associated traffic flow would be induced in Kwu Tung North after 2041, therefore the predicted traffic noise impact from the existing roads to existing NSRs would be same in 2044 and 2046. Thus, the predicted overall noise levels in 2044 without project scenario in the EIA Report still remain valid.

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**.

2.5.2 Based on the latest road alignment and mitigation proposal (see **Appendix 1.2**), the mitigated noise levels of the representative NSRs at KTN NDA are summarised in **Table 2.2**, with detailed road traffic noise levels presented in **Appendix 2.3**.

Table 2.2 Predicted Road Traffic Noise Levels under Mitigated Scenario in the Year 2046 (at Residential Premises and Schools)

NSR	Assessment Point (AP)	Land Use (1)	Status	No. of Floor	Predicted Noise Levels, $L_{10(1hr)}$ dB(A)	Traffic Noise Criterion, $L_{10(1hr)}$ dB(A) (4)	Exceedance [Y/N]	At Receiver-end Mitigation Measures Required [Y/N] (2) (3)
Existing								
A3-7	R2141	R	Existing	3	61	70	N	-
C1-4	R2001, R2102 to R2013	R	Existing	3	62 - 69	70	N	-
D1-6	E0002 to E0006	R	Existing	1 - 2	63 - 70	70	N	-
D1-9	R2041 to R2043, R2046 to R2047, N2046 to N2047	R	Existing	3	60 - 70	70	N	-
H1-1	R1506, E0001	R	Existing	1 - 2	69 - 70	70	N	-
KTN-1	R1001 to R1005	W, E, R	Existing	1 - 3	58 - 65	65 - 70	N	-
KTN-2	R1021 to R1034	E, R	Existing	1 - 4	59 - 66	65 - 70	N	-
KTN-4	R1041 to R1043	R	Existing	2 - 3	60 - 65	70	N	-
KTN-P6	R1521, R1523 to R1527	R	Existing	4	61 - 70	70	N	-
KTN-7	R1061 (5)	E	Existing	2	62 - 64	65	N	-
KTN-9	R1085 to R1090	R	Existing	3	56 - 70	70	N	-
KTN-11	R1102 to R1107	R	Existing	3	58 - 70	70	N	-
KTN-12	R1121	R	Existing	2	70	70	N	-
KTN-20	R1161 to R1162	R	Existing	3	≤40	70	N	-
KTN-32	R1181 to R1186	R	Existing	3	59 - 68	70	N	-
KTN-48	R1281 to R1282, R1284 to R1290	R	Existing	4	57 - 70	70	N	-
KTN-49	R1301	R	Existing	2	63 - 64	70	N	-
KTN-50	R1681 to R1682	R	Existing	2	68 - 70	70	N	-
Planning								
A1-2	A1-2-1 to A1-2-34	R	Planned	34 - 36	56 - 71	70	**Y**	**Y (6)**
A1-4a	A1-4a-1 to A1-4a-17	R	Planned	27	58 - 69	70	N	N
A1-5a	A1-5a-1 to A1-5a-46	R	Planned	25 - 26	55 - 69	70	N	N
A1-6	A1-6-1 to A1-6-2	R	Planned	26	65 - 70	70	N	N
A1-8	A1-8-1 to A1-8-3	R	Planned	34	57 - 70	70	N	N
A1-9a	A1-9a-1 to A1-9a-7	R	Planned	18	61 - 73	70	**Y**	**Y**
A1-9b	A1-9b-1 to A1-9b-9	R	Planned	17	63 - 73	70	**Y**	**Y**
A2-2a	A2-2a-1 to A2-2a-5	R	Planned	38 - 40	62 - 73	70	**Y**	**Y (7)**
A2-2b	A2-2b-1 to A2-2b-4	R	Planned	38	66 - 73	70	**Y**	**Y (7)**
A2-4	A2-4-1 to A2-4-2	R	Planned	32	51 - 68	70	N	N
A2-5	A2-5-1 to A2-5-2	R	Planned	26	55 - 69	70	N	N
A2-7	A2-7-1 to A2-7-4	R	Planned	37	48 - 70	70	N	N
A2-9a	A2-9a-1 to A2-9a-3	R	Planned	18	59 - 63	70	N	N
A2-9b	A2-9b-1 to A2-9b-7	R	Planned	19	61 - 71	70	**Y**	**Y**
A2-11	A2-11-1 to A2-11-3	E	Planned	8	59 - 65	65	N	N
A2-12	A2-12-1 to A2-12-3	E	Planned	8	59 - 61	65	N	N
A2-13	A2-13-1 to A2-13-3	E	Planned	8	62 - 65	65	N	N
A3-1	A3-1-1 to A3-1-2	E	Planned	8	54 - 65	65	N	N

NSR	Assessment Point (AP)	Land Use [1]	Status	No. of Floor	Predicted Noise Levels, $L_{10(1hr)}$ dB(A)	Traffic Noise Criterion, $L_{10(1hr)}$ dB(A) [4]	Exceedance [Y/N]	At Receiver-end Mitigation Measures Required [Y/N] [2] [3]
A3-2	A3-2-1 to A3-2-2	E	Planned	8	60 - 65	65	N	N
A3-3a	A3-3a-1, A3-3a-2a to A3-3a-2b, A3-3a-3a to A3-3a-3b, A3-3a-4a to A3-3a-4b, A3-3a-5 to A3-3a-6	R	Planned	41	54 - 70	70	N	N
A3-3b	A3-3b-1a to A3-3b-1b, A3-3b-2a to A3-3b-2b, A3-3b-3 to A3-3b-6	R	Planned	41	53 - 70	70	N	N
A3-4	A3-4-1 to A3-4-2	E	Planned	8	63 - 64	65	N	N
A3-6	A3-6-1 to A3-6-8	R	Planned	18	64 - 74	70	**Y**	**Y**
B2-3	B2-3-1 to B2-3-3	E	Planned	8	59 - 63	65	N	N
B2-6	B2-6-1 to B2-6-3	E	Planned	8	58 - 64	65	N	N
B2-10	B2-10-1 to B2-10-4	R	Planned	16	45 - 70	70	N	N
B3-5a	B3-5a-1 to B3-5a-15	R	Planned	18	66 - 74	70	**Y**	**Y**
B3-8	B3-8-1 to B3-8-6	R	Planned	16	61 - 74	70	**Y**	**Y**
C1-3	C1-3-1 to C1-3-4 [8]	CDA	Planned	3	65 - 70	70	N	N
D1-5	R3481	R	Planned	3	67 - 67	70	N	N
D1-7a	D1-7a-1 to D1-7a-5	R	Planned	22	62 - 72	70	**Y**	**Y**
D1-7b	D1-7b-1 to D1-7b-4	R	Planned	21	61 - 73	70	**Y**	**Y**
D1-7c	D1-7c-1 to D1-7c-6	R	Planned	17	65 - 73	70	**Y**	**Y**
D1-7d	D1-7d-1 to D1-7d-4	R	Planned	20	66 - 72	70	**Y**	**Y**
D1-11a	D1-11a-1 to D1-11a-6	R	Planned	22	62 - 73	70	**Y**	**Y**
D1-11b	D1-11b-1 to D1-11b-6	R	Planned	21	62 - 70	70	N	N
D1-11c	D1-11c-1 to D1-11c-5	R	Planned	17 - 20	56 - 70	70	N	N
E1-2	E1-2-1 to E1-2-3	E	Planned	8	50 - 64	65	N	N
E1-3	E1-3-1 to E1-3-10	R	Planned	18 - 20	60 - 70	70	N	N
E1-4	E1-4-1	E	Planned	8	64 - 65	65	N	N
KTS	KTS14_1, KTS484_1 to KTS484_5, SHK_1 to SHK_2	CDA	Planned	2 - 19	47 - 71	70	**Y**	**Y** [9]

Notes:

(1) R – Residential; PRH – Public Rental Housing; SSF – Subsidised Sale Flats; E – Educational; CDA – Comprehensive Development Areas; W – Place of Worship.

(2) For existing 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 ≥ 1dB(A)" or "New Roads exceeds Noise Criteria" or "New Roads Contribution ≥ 1 dB(A)".

(3) Housing Department / House Society / Lands Department agreed to adopt the common at receiver-end NMMs (e.g. acoustic windows and architectural fins) subject to the detailed design of respective sites.

(4) Relevant environmental standards / criteria: TM-EIAO noise standards for road traffic noise.

(5) Based on latest information (https://www.legco.gov.hk/yr17-18/english/fc/pwsc/papers/p18-19e.pdf), the existing Lady Ho Tung Welfare Centre (KTN-7) will be revitalised as Lady Ho Tung Welfare Centre Eco-Learn Institutes. Hence, R1061 will be changed for educational use.

(6) As advised by HS, acoustic windows or acoustic balconies will be adopted at the specific floors of facades of assessment points A1-2-21 to A1-2-27 in the housing site at KTN Site A1-2 to mitigate the residual noise impacts for achievement of noise compliance. With the implementation of acoustic windows or similar measures, the traffic noise levels at NSRs would comply with noise limit of 70 dB(A). HS will conduct Traffic Noise Impact Assessment (TNIA) to review the traffic noise impact on their development and, where necessary, propose at-receiver end mitigation measures to mitigate the residual exceedances at a later stage.

(7) As advised by HD, acoustic windows will be adopted at the façades of assessment points A2-2a-1 to A2-2a-2, A2-2a-4 to A2-2a-5 and A2-2b-1 to A2-2b-4 in the housing sites at KTN Site A2-2a and A2-2b to mitigate the residual noise impacts for achievement of noise compliance. With the implementation of acoustic windows or similar measures, the traffic noise levels at NSRs would comply with noise limit of 70 dB(A). HD will conduct Traffic Noise Impact Assessment (TNIA) to review the traffic noise impact to their development and, where necessary, propose at-receiver end mitigation measures to mitigate the residual exceedances at a later stage.

(8) The main building of Enchi Lodge, which is a Grade 3 Historical Building, forms part of the development of Site C1-3 and would be refurbished into club house, and thus, the Enchi Lodge is no longer an NSR and the assessment point R2021 has been removed.

(9) According to the information available on the website of Town Planning Board, acoustic window (top-hung type) will be adopted at the façade with assessment point KTS484_1 in the CDA site at Kwu Tung South to mitigate the residual noise impacts for achievement of noise compliance. With the implementation of acoustic windows, the traffic noise levels at NSRs would comply with noise limit of 70 dB(A).

2.5.3 With the proposed at-source noise mitigation measures as illustrated in **Appendix 1.2**, the predicted noise levels at some planned NSRs still exceed the noise limit of 70 dB(A). In order to reduce substantial structures of at-source noise mitigation measures (NMMs), a balanced approach would be adopted to provide NMMs at both at-source and at-receiver end.

2.5.4 Adoption of at-receiver end NMMs is a common mitigation approach and had been widely adopted as effective practices to reduce traffic noise impact on the existing residential developments. According to information provided by EPD[1], Innovative Noise Mitigation Measures (INMMs), i.e. acoustic windows and enhanced acoustic balconies, have been adopted in over 150 developments. These INMMs could provide a high degree of noise reduction and allow natural ventilation at the same time. It is anticipated that INMMs will not affect the development parameters. Different types of INMMs and their noise reduction performances are listed in **Table 2.3**.

Table 2.3 Noise Reduction Performance of Innovative Noise Mitigation Measures

Innovative Noise Mitigation Measures		**Noise Reduction performance in dB(A)** (1)
Acoustic Windows	Baffle Type	Around 4 – 8
	Top-Hung Type	Around 4 – 5.5
Enhanced Acoustic Balcony		Around 3 – 7

Note:
(1) Reference was made to the website of Innovative Noise Mitigation Designs and Measures by EPD (2022) (https://www.epd.gov.hk/epd/Innovative/greeny/eng/innovation.html).

2.5.5 As discussed in **Section 1.1.5**, the predicted degree of noise exceedances in this TNMP has been made known to relevant parties (i.e. Housing Department / Housing Society / Lands Department) by CEDD, and they agreed to adopt the above-mentioned INMMs subject to the detailed designs of respective housing sites. For public housing sites in KTN NDA, Housing Department and Housing Society will conduct Environmental Assessment Studies (EAS) including Noise Impact Assessment (NIA) at a later stage and, where necessary, propose at-receiver end mitigation measures to mitigate the residual exceedances to meet the noise standard. While for private housing sites, Lands Department will set out requirements for conducting EAS/NIA on land leases and/or sale conditions to review the traffic noise impacts and the provision of at-receiver end mitigation measures to mitigate residual noise impacts. Owing to the high noise reduction performance of the INMMs, the predicted noise exceedances could be mitigated.

[1] https://www.epd.gov.hk/epd/Innovative/greeny/eng/innovation.html

2.5.6 As discussed in **Section 2.3.2**, the exact locations for the proposed social welfare facilities, homes for the elderly and kindergarten are not yet confirmed except for the proposed kindergartens and RCHEs at Site A1-2 and the MWSC at Site B2-5. Hence, a sensitivity test on the possible locations has been conducted with findings presented in **Table 2.4** and **Table 2.5**. The predicted road traffic noise levels at some of the assessment points 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. Such design constraints have been made known by CEDD to relevant parties (i.e. Housing Department / Housing Society / Architectural Services Department). **Figure 2.3** and **Figure 2.4** show the façades of potential locations for the proposed social welfare facilities, homes for the elderly and kindergarten at KTN respectively which can rely on open windows for ventilation without exceeding the traffic noise criteria.

Table 2.4 Road Traffic Noise Sensitivity Analysis for Potential Locations of Social Welfare Facilities under Mitigated Scenario in the Year 2046

Site no.	Noise Assessment Points	Use(1)	Predicted Noise Levels, $L_{10(1hr)}$ dB(A)	Criterion (2)	Exceedance [Y/N] (4)
A1-2	A1-2-s1 to A1-2-s13	R	41 - 70	70	N
A1-8	A1-8-s1 to A1-8-s7	R	40 - 73	70	Y
A2-2a	A2-2a-s1 to A2-2a-s41	R	≤40 - 78	70	Y
A2-2b	A2-2b-s1 to A2-2b-s23	R	≤40 - 77	70	Y
A2-7	A2-7-s1 to A2-7-s20	R	≤40 - 74	70	Y
A3-3a	A3-3a-s1 to A3-3a-s32	R	≤40 - 75	70	Y
A3-3b	A3-3b-s1 to A3-3b-s16	R	54 - 74	70	Y
B2-5	B2-5-G1 to B2-5-G13, B2-5-1 to B2-5-25	R/S	≤40 - 69	55 - 70	N (3)

Notes:
(1) R – Residential; S – Sick Bay.
(2) Relevant environmental standards / criteria: TM-EIAO noise standards for road traffic noise.
(3) As advised by ArchSD on 27 June 2022, all sick bays in the MWSC at Area 29 will be provided with mechanical ventilation and will not rely on openable windows for ventilation. Although exceedances in traffic noise levels are predicted at the assessment points of sick bays (i.e. B2-5-9 and B2-5-11), no adverse traffic noise impacts to the interior noise sensitive receivers would be anticipated.
(4) 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 2.2** shows the façades of potential locations for the proposed social welfare facilities and homes for the elderly at KTN respectively which can rely on the open windows for ventilation without exceeding the traffic noise criteria. With the implementation of proper design, there would be no exceedance anticipated at these NSRs.

Table 2.5 Road Traffic Noise Sensitivity Analysis for Potential Locations of Kindergartens under Mitigated Scenario in Year 2046

Site no.	Noise Assessment Points	Use(1)	Predicted Noise Levels, $L_{10(1hr)}$ dB(A)	Criterion (2)	Exceedance [Y/N] (3)
A1-2	A1-2-k1 to A1-2-k7	E	57 - 60	65	N
A1-6	A1-6-k1 to A1-6-k21	E	≤40 - 71	65	Y
A1-8	A1-8-k1 to A1-8-k7	E	40 - 73	65	Y
A2-2a	A2-2a-k1 to A2-2a-k41	E	≤40 - 78	65	Y
A2-2b	A2-2b-k1 to A2-2b-k23	E	≤40 - 77	65	Y
A2-5	A2-5-1 to A2-5-k6	E	42 - 74	65	Y
A2-7	A2-7-k1 to A2-7-k20	E	≤40 - 74	65	Y
A3-3a	A3-3a-k1 to A3-3a-k32	E	≤40 - 75	65	Y
A3-3b	A3-3b-k1 to A3-3b-k16	E	54 - 74	65	Y
B2-7	B2-7-k1 to B2-7-k4	E	57 - 68	65	Y
B2-10	B2-10-k1 to B2-10-k7	E	61 - 70	65	Y

Notes:
(1) E – Educational.
(2) Relevant environmental standards / criteria: TM-EIAO noise standards for road traffic noise.
(3) Non-sensitive use at the particular façade on particular nos. of floors that would exceed the traffic noise limit or acoustic insulation should be adopted during the design stage. **Figure 2.3** shows the façades of potential locations for the proposed kindergartens at KTN respectively which can rely on open windows for ventilation without exceeding the traffic noise criteria. With the implementation of proper design, there would be no exceedance anticipated at these NSRs.

2.5.7 With the implementation of direct (i.e. the provision of noise barrier and LNRS) and at receiver-end (i.e. the provision of acoustic windows and balconies) mitigation measures, no exceedance is predicted at the planned dwellings in KTN 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.

2.5.8 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 2.2** to **Table 2.5** 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 can be mitigated by implementing the proposed noise control measures such as barriers and low noise road surfacing, as well as at receiver-end noise mitigation measures to be designed by developers of housing sites, and thus, adverse residual noise impacts are not anticipated.

2.7 Implementation Programme of Mitigation Measures

2.7.1 In view of the extensive scale of development and substantial land area involved, the KTN 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 the implementation programme of the KTN NDA. The recommended noise mitigation measures should be in place before the occupation of corresponding areas in KTN NDA in order to protect the planned NSRs from adverse traffic noise impact. A summary of the Road Traffic Noise Mitigation Proposal for the Project, together with the implementation programme, is presented in **Appendix 2.4**.

2.7.2 If there is any change proposed to the traffic noise mitigation measures in the approved TNMP, 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 TNMP.

3 CONCLUSION

3.1.1 The traffic noise mitigation measures for the Project have been prepared based on the latest road networks design and available information of the development layouts. With the proposed direct and at-receiver-end noise mitigation measures in place, the traffic noise impacts will still meet the traffic noise performance requirements set out in the EIA Report (Register No.: AEIAR-175/2013).

3.1.2 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 TNMP, 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 TNMP.

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FIGURES

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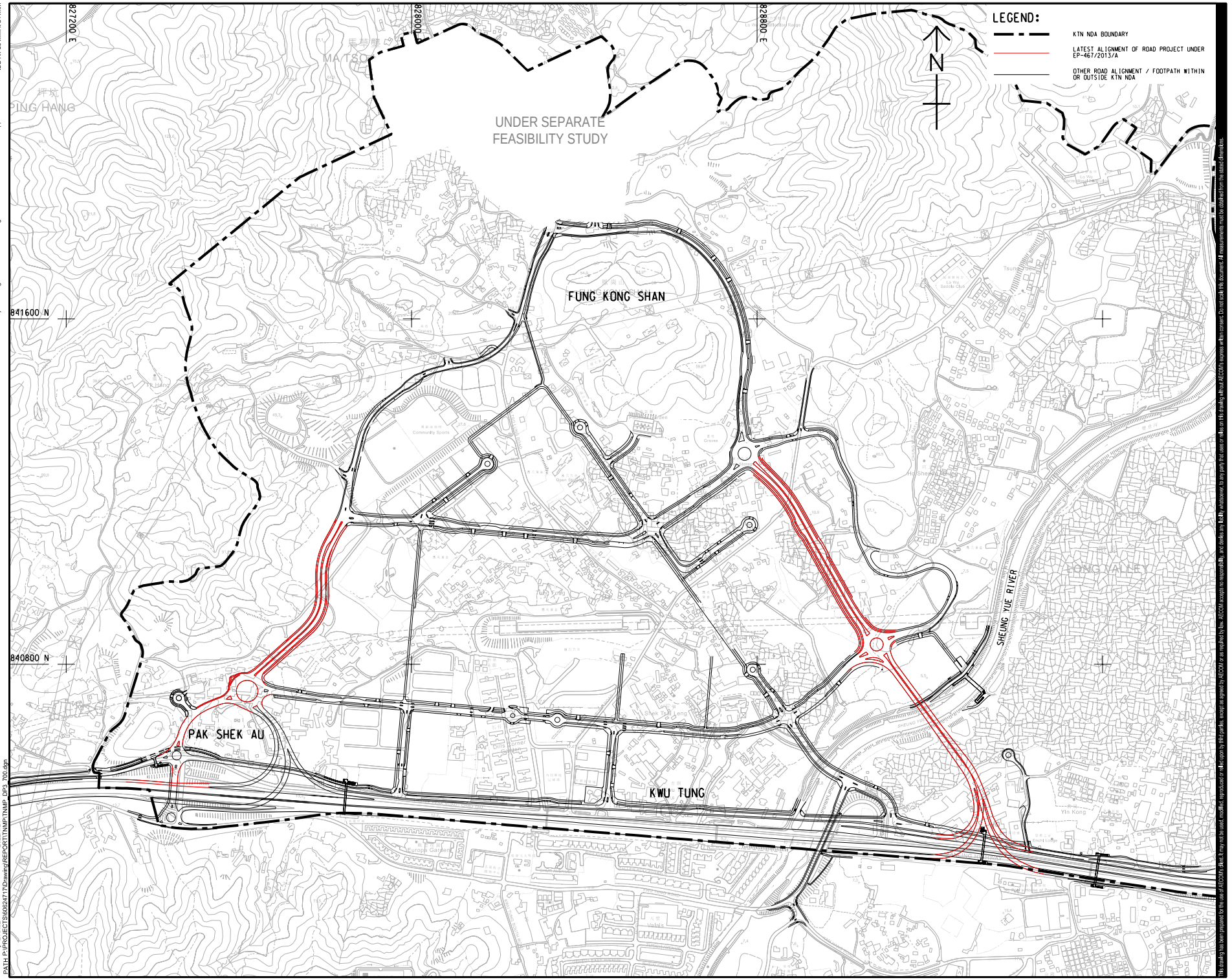

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PROJECT

DEVELOPMENT OF KWU TUNG NORTH NEW DEVELOPMENT AREA, REMAINING PHASE - DESIGN & CONSTRUCTION

CLIENT

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

CONSULTANT

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ISSUE/REVISION

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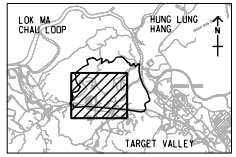
STATUS

SCALE A1 1 : 4000

DIMENSION UNIT METRES

KEY PLAN A1 1 : 100000



PROJECT NO. 60624717

CONTRACT NO. CE 19/2019 (CE)

SHEET TITLE

LOCATION OF THE PROJECT (DP3)

SHEET NUMBER

60624717/TNMP/DP3/FIGURE 1.1

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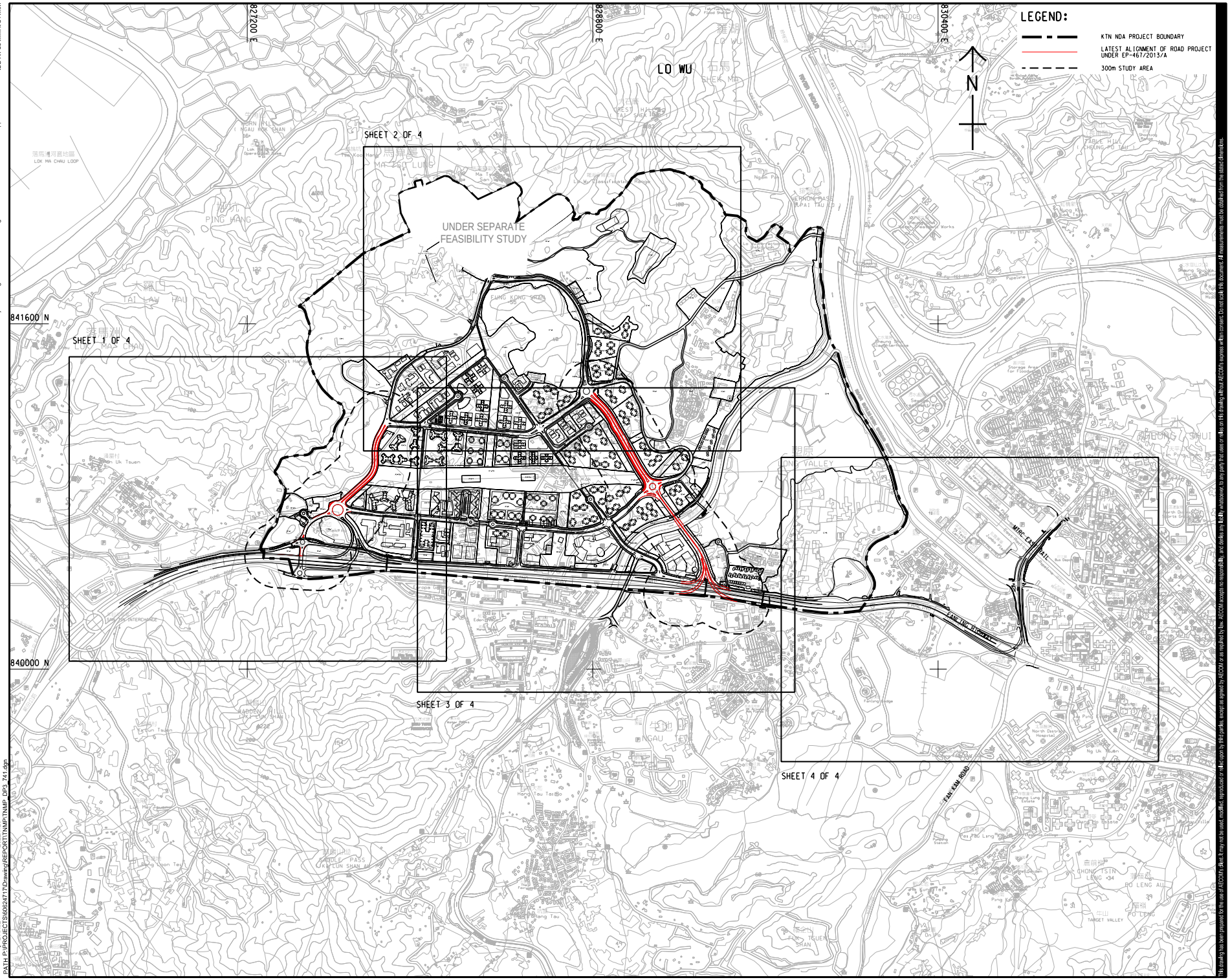

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PROJECT

DEVELOPMENT OF KWU TUNG NORTH NEW DEVELOPMENT AREA, REMAINING PHASE - DESIGN & CONSTRUCTION

CLIENT

土木工程拓展署 Civil Engineering and Development Department

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IR	DATE	DESCRIPTION	CHK.

STATUS

SCALE A1 1 : 8000

DIMENSION UNIT METRES

KEY PLAN

PROJECT NO. 60624717

CONTRACT NO. CE 19/2019 (CE)

SHEET TITLE

LOCATIONS OF REPRESENTATIVE NSRS AND ASSESSMENT POINTS (RESIDENTIAL PREMISES AND SCHOOLS) - KEY PLAN

SHEET NUMBER

60624717/TNMP/DP3/FIGURE 2.1.1

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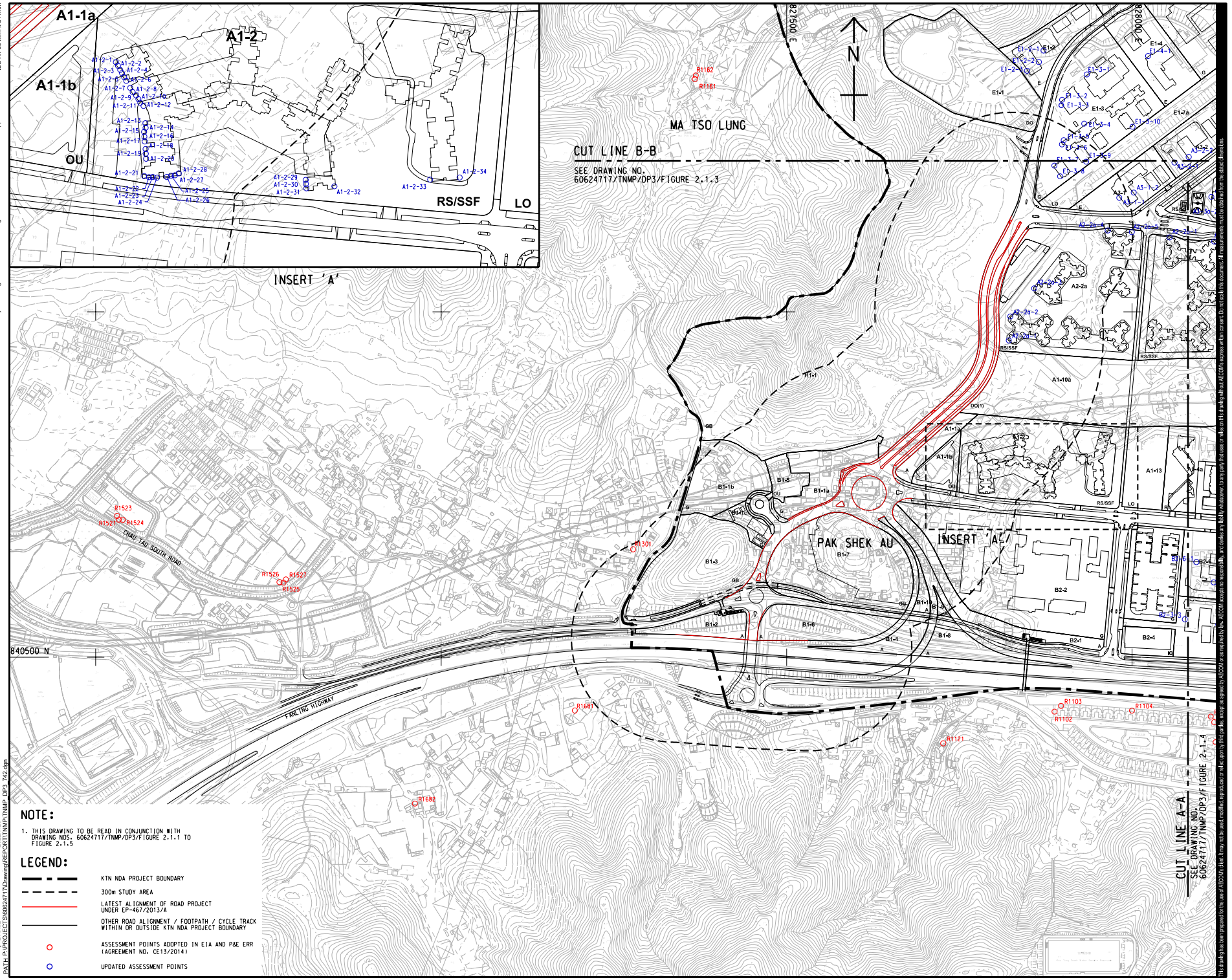

NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60624717/TNMP/DP3/FIGURE 2.1.1 TO FIGURE 2.1.5

LEGEND:

- KTN NDA PROJECT BOUNDARY
- 300m STUDY AREA
- LATEST ALIGNMENT OF ROAD PROJECT UNDER EP-467/2013/A
- OTHER ROAD ALIGNMENT / FOOTPATH / CYCLE TRACK WITHIN OR OUTSIDE KTN NDA PROJECT BOUNDARY
- ASSESSMENT POINTS ADOPTED IN EIA AND P&E ERR (AGREEMENT NO. CE13/2014)
- UPDATED ASSESSMENT POINTS

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PROJECT
DEVELOPMENT OF KWU TUNG NORTH NEW DEVELOPMENT AREA, REMAINING PHASE - DESIGN & CONSTRUCTION

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

CONSULTANT
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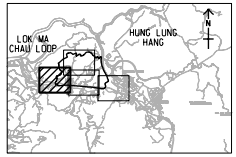
SCALE: A1 1 : 2500
DIMENSION UNIT: METRES

KEY PLAN A1 1 : 150000



PROJECT NO.: 60624717
CONTRACT NO.: CE 19/2019 (CE)

SHEET TITLE
LOCATIONS OF REPRESENTATIVE NSRs AND ASSESSMENT POINTS (RESIDENTIAL PREMISES AND SCHOOLS)
SHEET 1 OF 4

SHEET NUMBER
60624717/TNMP/DP3/FIGURE 2.1.2

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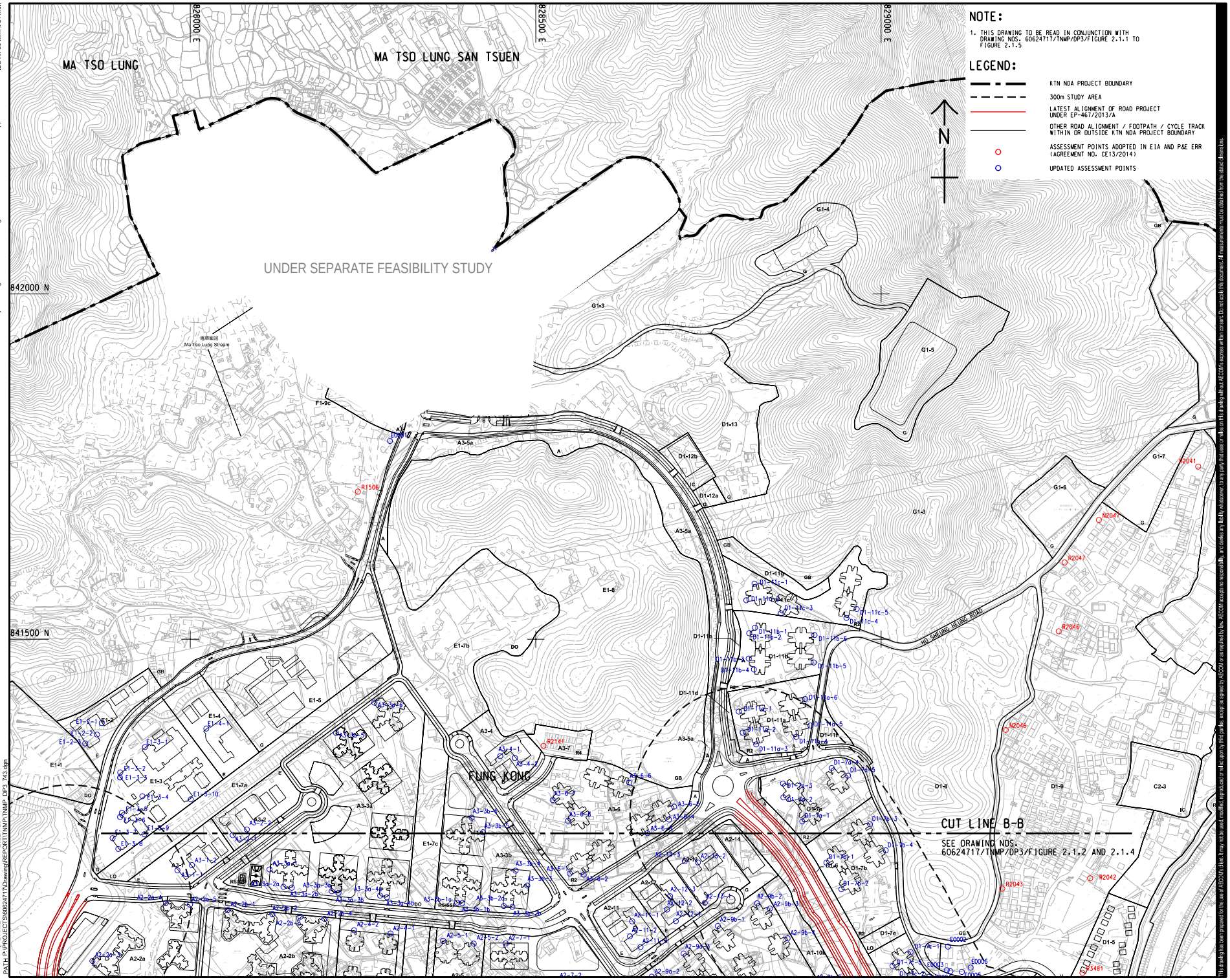

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PATH: P:\PROJECTS\60624717\Drawing\REPORT\TNMP\TNMP_DP3_742.dgn

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KEY PLAN A1 1 : 150000

PROJECT NO.: 60624717
CONTRACT NO.: CE 19/2019 (CE)

SHEET TITLE
LOCATIONS OF REPRESENTATIVE NSRs AND ASSESSMENT POINTS (RESIDENTIAL PREMISES AND SCHOOLS)
SHEET 2 OF 4

SHEET NUMBER
60624717/TNMP/DP3/FIGURE 2.1.3

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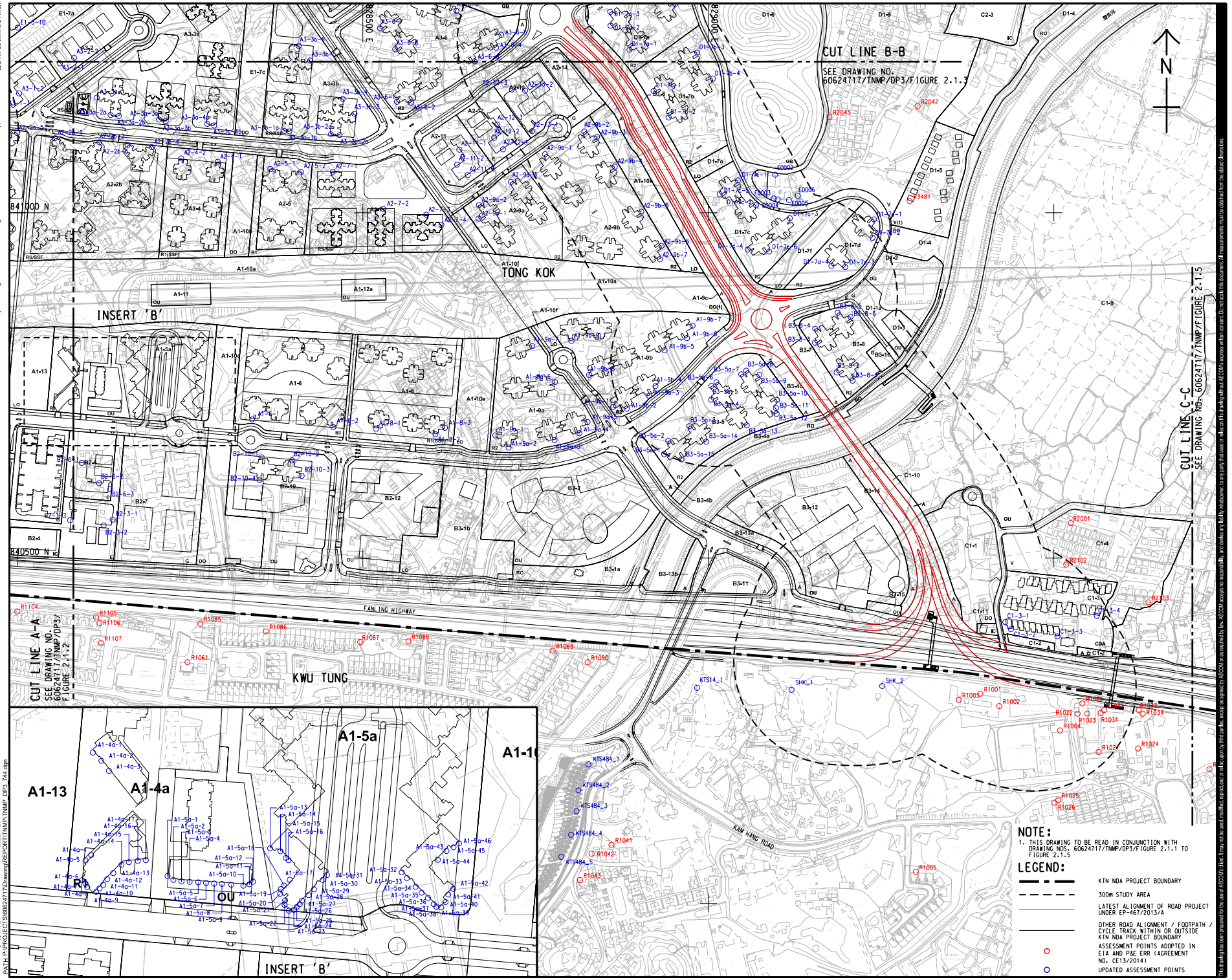

NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60624717/TNMP/DP3/FIGURE 2.1.1 TO FIGURE 2.1.5

LEGEND:

- KTN NDA PROJECT BOUNDARY
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- UPDATED ASSESSMENT POINTS

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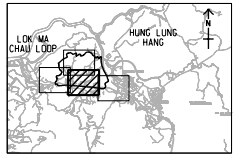
KEY PLAN A1 1 : 150000



PROJECT NO. 60624717

CONTRACT NO. CE 19/2019 (CE)

SHEET TITLE

LOCATIONS OF REPRESENTATIVE NSRs AND ASSESSMENT POINTS (RESIDENTIAL PREMISES AND SCHOOLS)

SHEET 3 OF 4

SHEET NUMBER

60624717/TNMP/DP3/FIGURE 2.1.4

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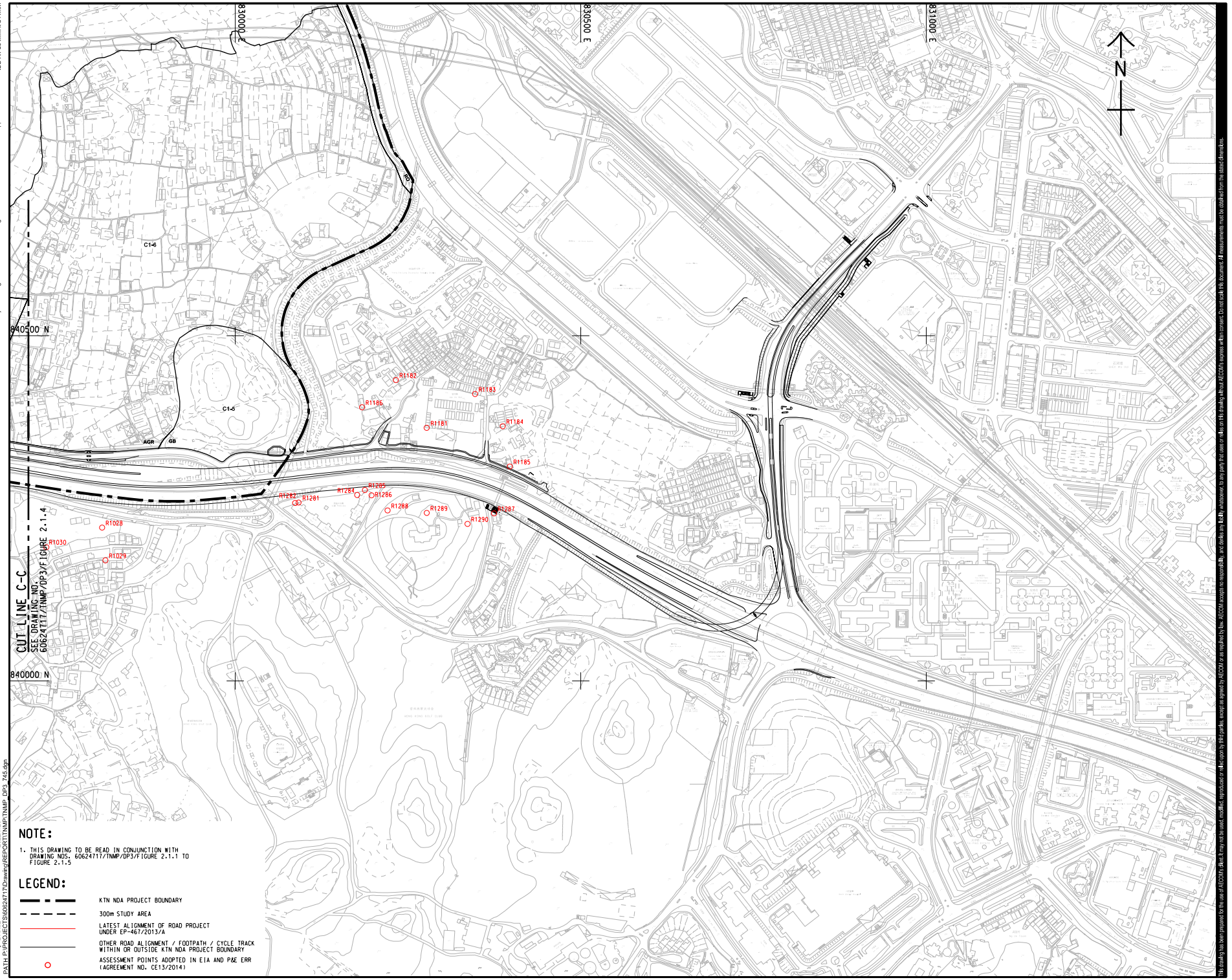

NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60624717/TNMP/DP3/FIGURE 2.1.1 TO FIGURE 2.1.5

LEGEND:

- KTN NDA PROJECT BOUNDARY
- 300m STUDY AREA
- LATEST ALIGNMENT OF ROAD PROJECT UNDER EP-467/2013/A
- OTHER ROAD ALIGNMENT / FOOTPATH / CYCLE TRACK WITHIN OR OUTSIDE KTN NDA PROJECT BOUNDARY
- ASSESSMENT POINTS ADOPTED IN EIA AND P&E ERR (AGREEMENT NO. CE13/2014)

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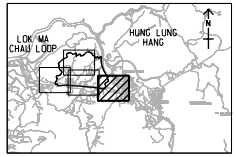
DIMENSION UNIT METRES

KEY PLAN A1 1 : 150000



PROJECT NO. 60624717
CONTRACT NO. CE 19/2019 (CE)

SHEET TITLE
LOCATIONS OF REPRESENTATIVE NSRs AND ASSESSMENT POINTS (RESIDENTIAL PREMISES AND SCHOOLS)
SHEET 4 OF 4

SHEET NUMBER
60624717/TNMP/DP3/FIGURE 2.1.5

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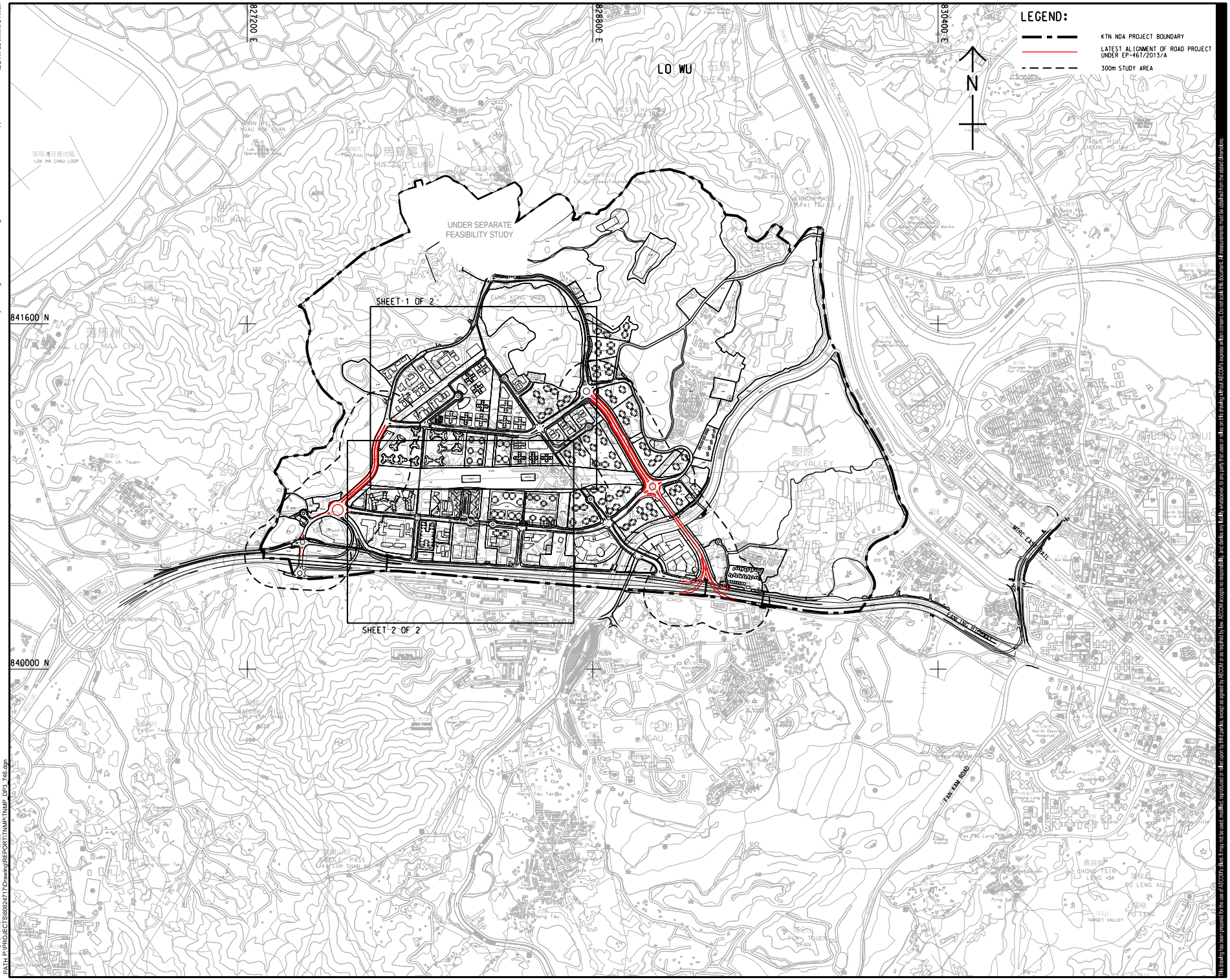

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STATUS
狀況

SCALE 比例
A1 1 : 8000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60624717

CONTRACT NO. 合約編號
CE 19/2019 (CE)

SHEET TITLE
圖紙名稱

LOCATIONS OF REPRESENTATIVE NSRs AND ASSESSMENT POINTS (SOCIAL WELFARE FACILITIES) - KEY PLAN

SHEET NUMBER
圖紙編號

60624717/TNMP/DP3/FIGURE 2.1.6

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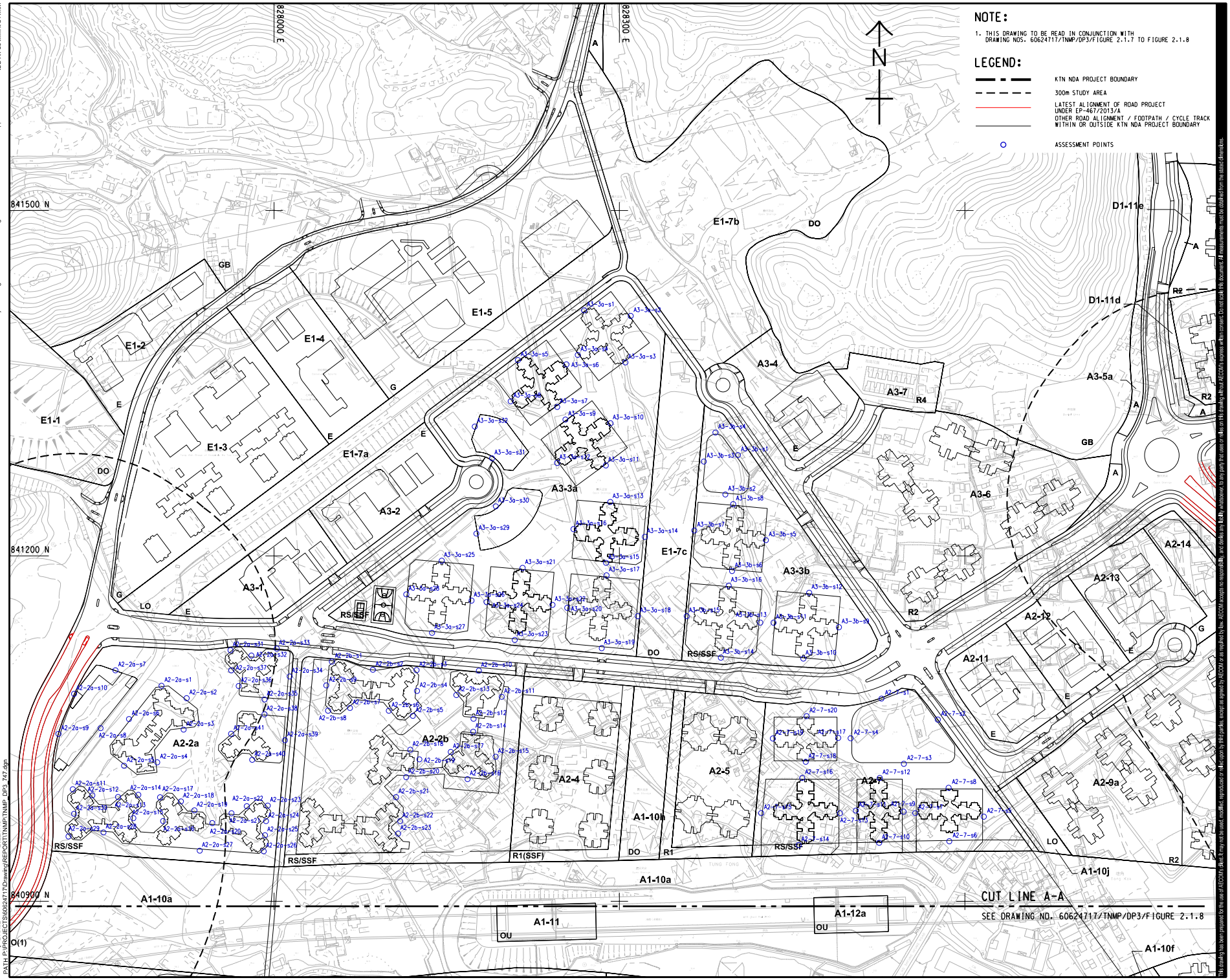

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PROJECT
DEVELOPMENT OF KWU TUNG NORTH NEW DEVELOPMENT AREA, REMAINING PHASE - DESIGN & CONSTRUCTION

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SCALE: A1 1 : 1500
DIMENSION UNIT: METRES

KEY PLAN

PROJECT NO.: 60624717
CONTRACT NO.: CE 19/2019 (CE)

SHEET TITLE
LOCATIONS OF REPRESENTATIVE NSRs AND ASSESSMENT POINTS (SOCIAL WELFARE FACILITIES)
SHEET 1 OF 2

SHEET NUMBER
60624717/TNMP/DP3/FIGURE 2.1.7

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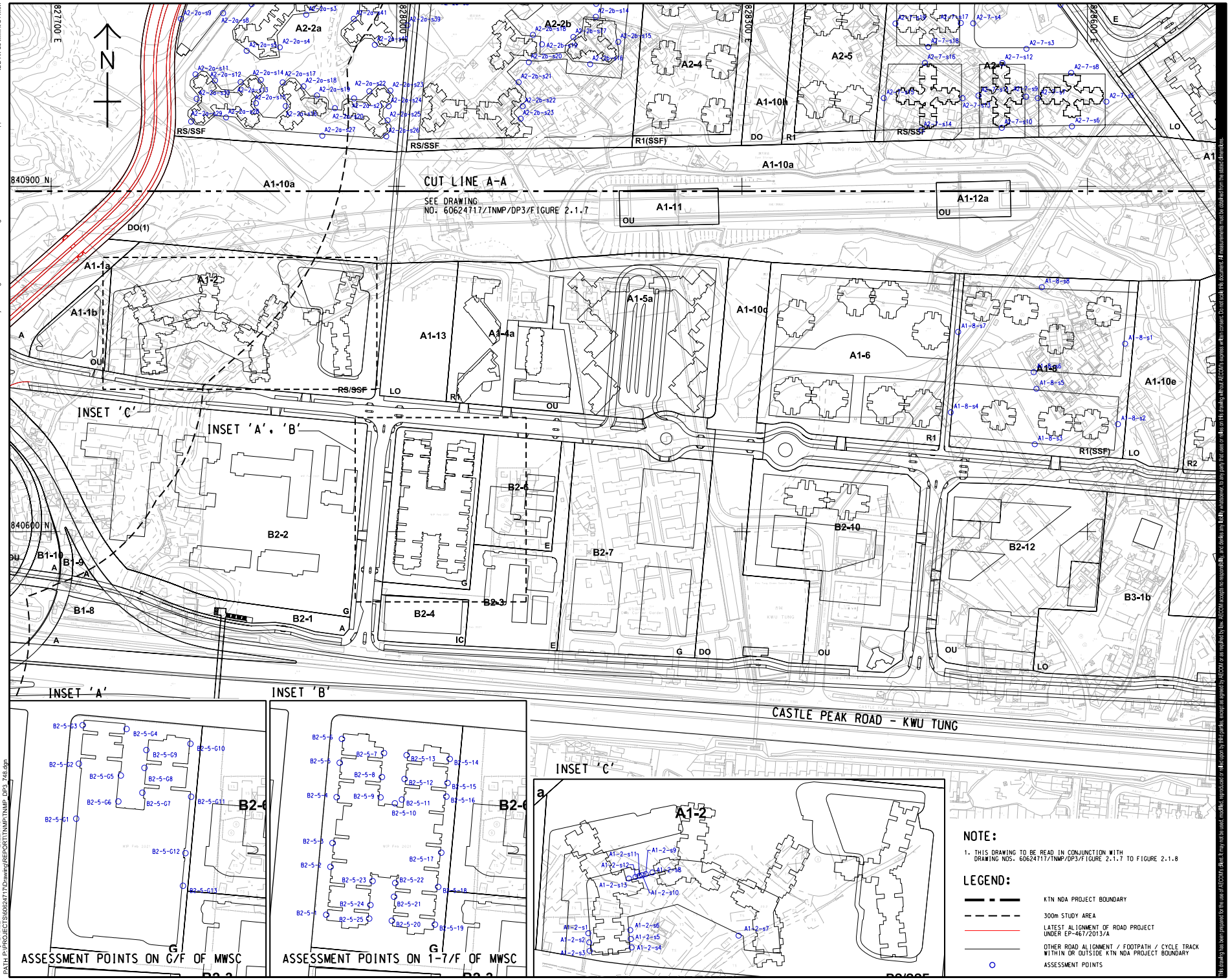

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PROJECT
DEVELOPMENT OF KWU TUNG NORTH NEW DEVELOPMENT AREA, REMAINING PHASE - DESIGN & CONSTRUCTION

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STATUS

SCALE: A1 1 : 1500
DIMENSION UNIT: METRES

KEY PLAN

PROJECT NO.: 60624717
CONTRACT NO.: CE 19/2019 (CE)

SHEET TITLE
LOCATIONS OF REPRESENTATIVE NSRs AND ASSESSMENT POINTS (SOCIAL WELFARE FACILITIES)
SHEET 2 OF 2

SHEET NUMBER
60624717/TNMP/DP3/FIGURE 2.1.8

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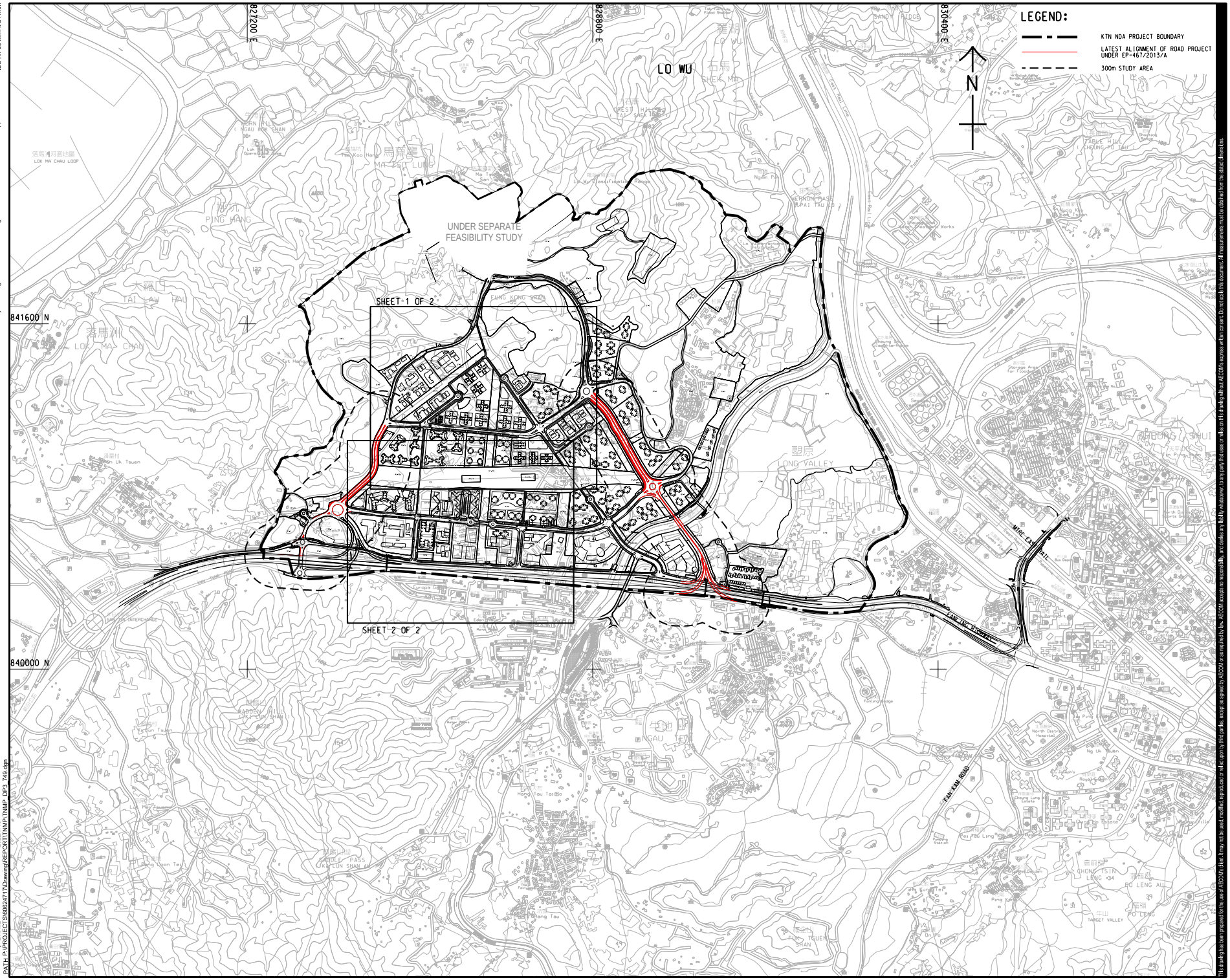

ISO A1 594mm x 841mm

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REMAINING PHASE -
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STATUS
狀況

SCALE 比例
A1 1 : 8000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60624717

CONTRACT NO. 合約編號
CE 19/2019 (CE)

SHEET TITLE
圖紙名稱

LOCATIONS OF REPRESENTATIVE NSRs AND ASSESSMENT POINTS (KINDERGARTENS) - KEY PLAN

SHEET NUMBER
圖紙編號

60624717/TNMP/DP3/FIGURE 2.1.9

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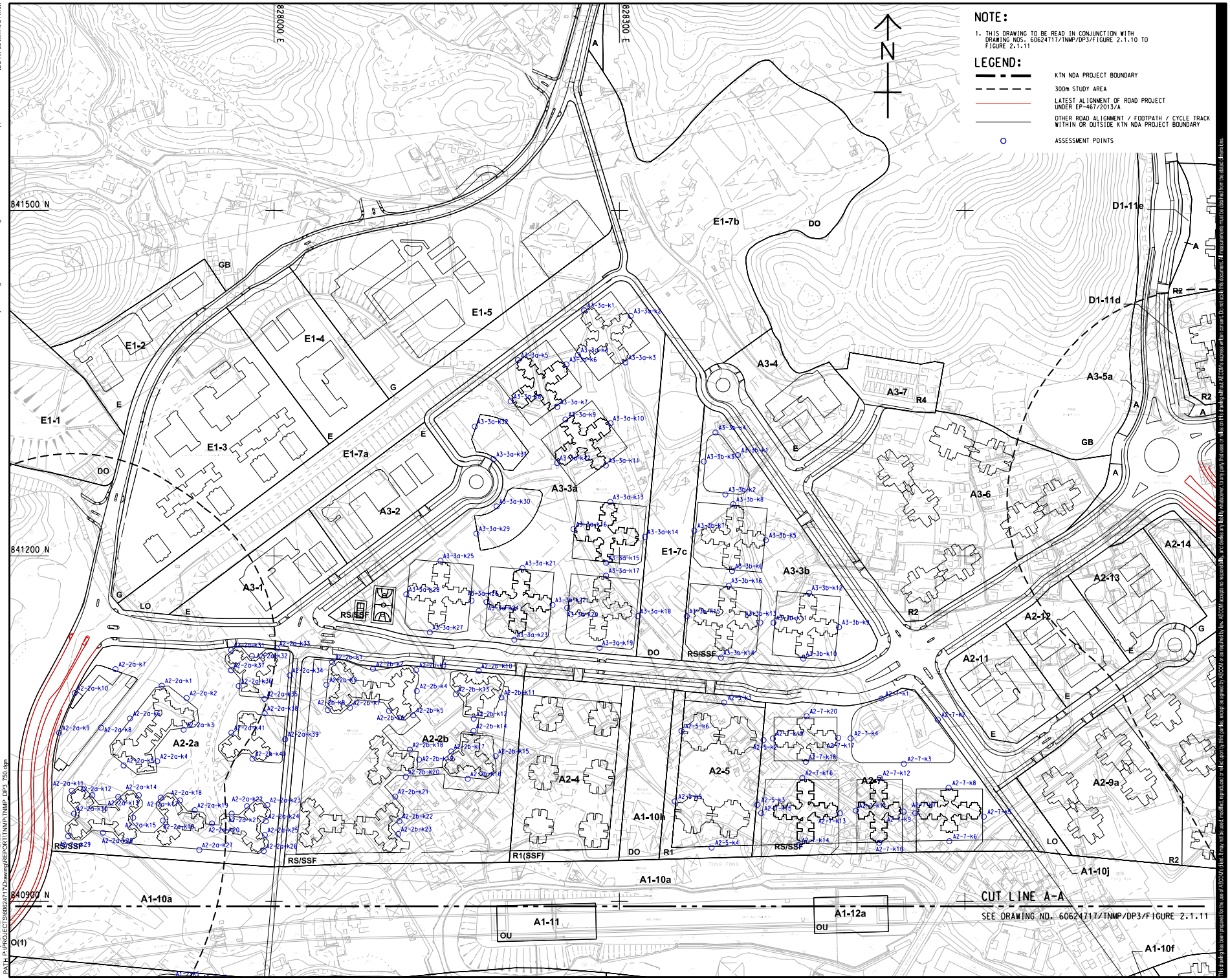

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DEVELOPMENT OF KWU TUNG NORTH NEW DEVELOPMENT AREA, REMAINING PHASE - DESIGN & CONSTRUCTION

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SCALE: A1 1 : 1500

DIMENSION UNIT: METRES

KEY PLAN

PROJECT NO.: 60624717

CONTRACT NO.: CE 19/2019 (CE)

SHEET TITLE

LOCATIONS OF REPRESENTATIVE NSRs AND ASSESSMENT POINTS (KINDERGARTENS)

SHEET 1 OF 2

SHEET NUMBER

60624717/TNMP/DP3/FIGURE 2.1.10

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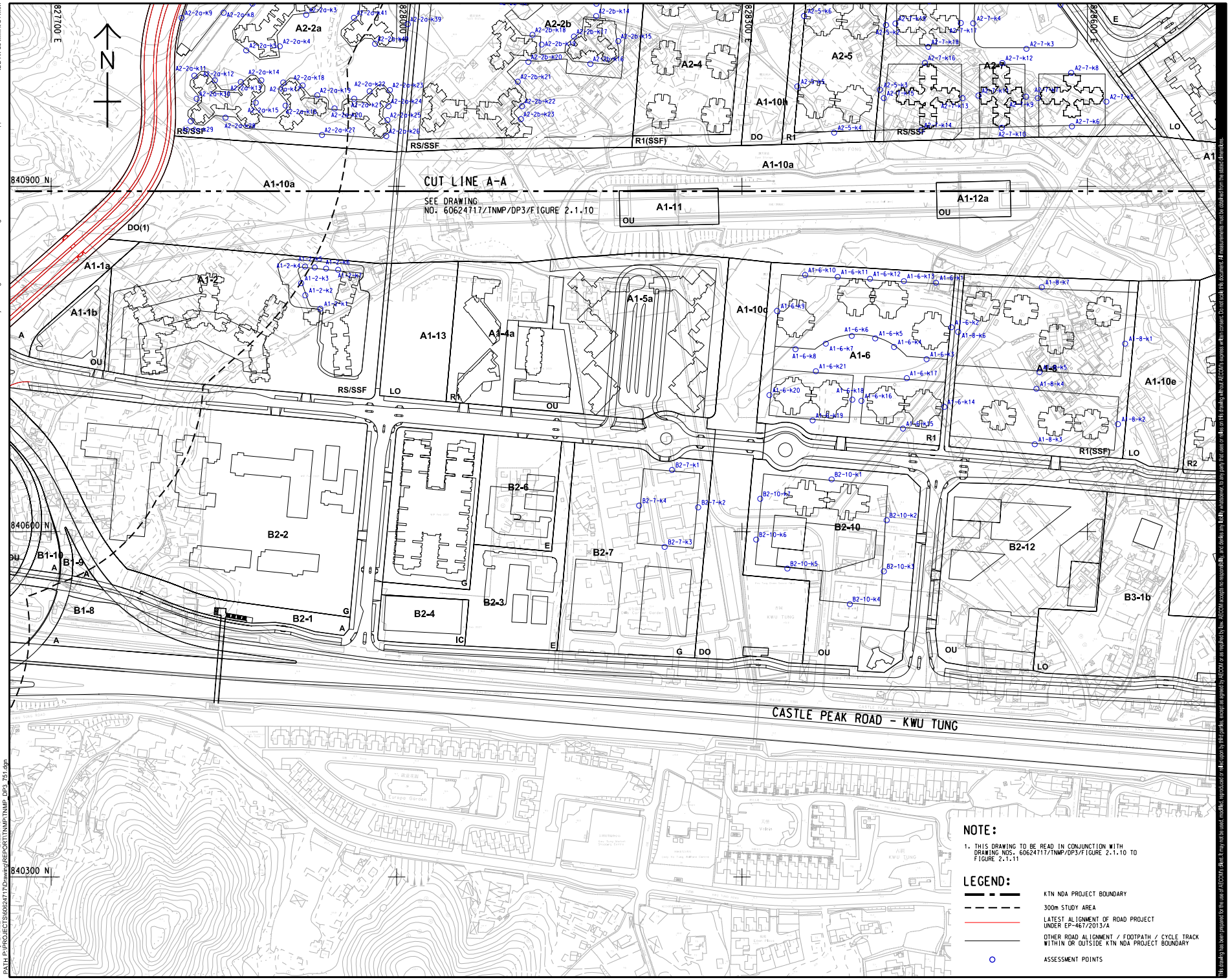

ISO A1 594mm x 841mm

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Project Management Initials:

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STATUS
狀況

SCALE 比例
A1 1 : 1500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60624717

CONTRACT NO. 合約編號
CE 19/2019 (CE)

SHEET TITLE
圖紙名稱

LOCATIONS OF REPRESENTATIVE NSRs AND ASSESSMENT POINTS (KINDERGARTENS)

SHEET 2 OF 2

SHEET NUMBER
圖紙編號

60624717/TNMP/DP3/FIGURE 2.1.11

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STATUS
狀況

SCALE 比例
A1 1 : 2500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60624717

CONTRACT NO. 合約編號
CE 19/2019 (CE)

SHEET TITLE
圖紙名稱

LOCATIONS OF PROPOSED SOCIAL WELFARE FACILITIES WITH RESIDENTIAL PREMISES AND HOMES FOR THE ELDERLY

SHEET NUMBER
圖紙編號

60624717/TNMP/DP3/FIGURE 2.2

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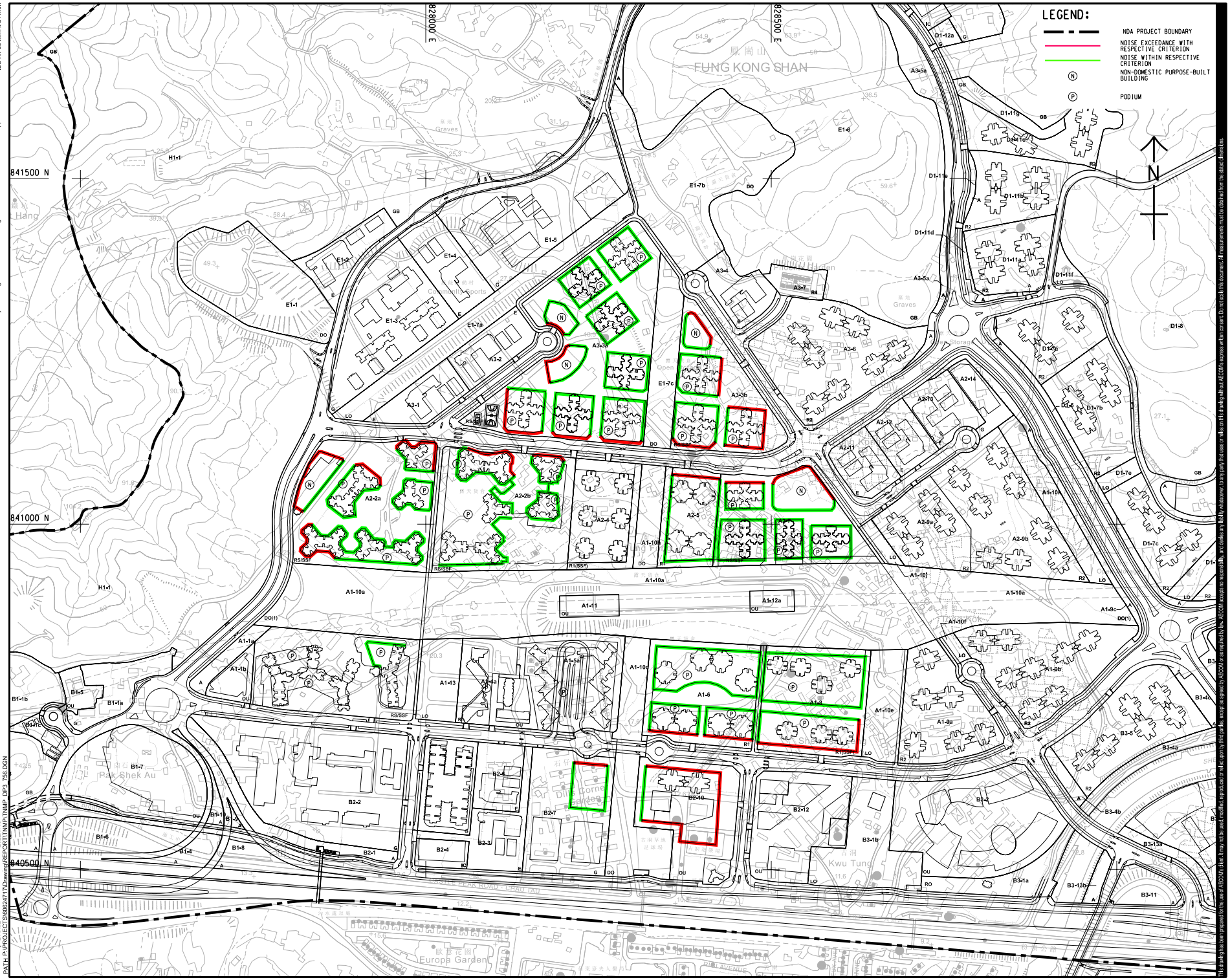

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A1 1 : 2500

DIMENSION UNIT

METRES

KEY PLAN

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60624717

CONTRACT NO.

CE 19/2019 (CE)

SHEET TITLE

LOCATIONS OF PROPOSED KINDERGARTENS

SHEET NUMBER

60624717/TNMP/DP3/FIGURE 2.3

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APPENDICES

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Appendix 1.1
Design Changes Proposed under CE19/2019 P&E Review

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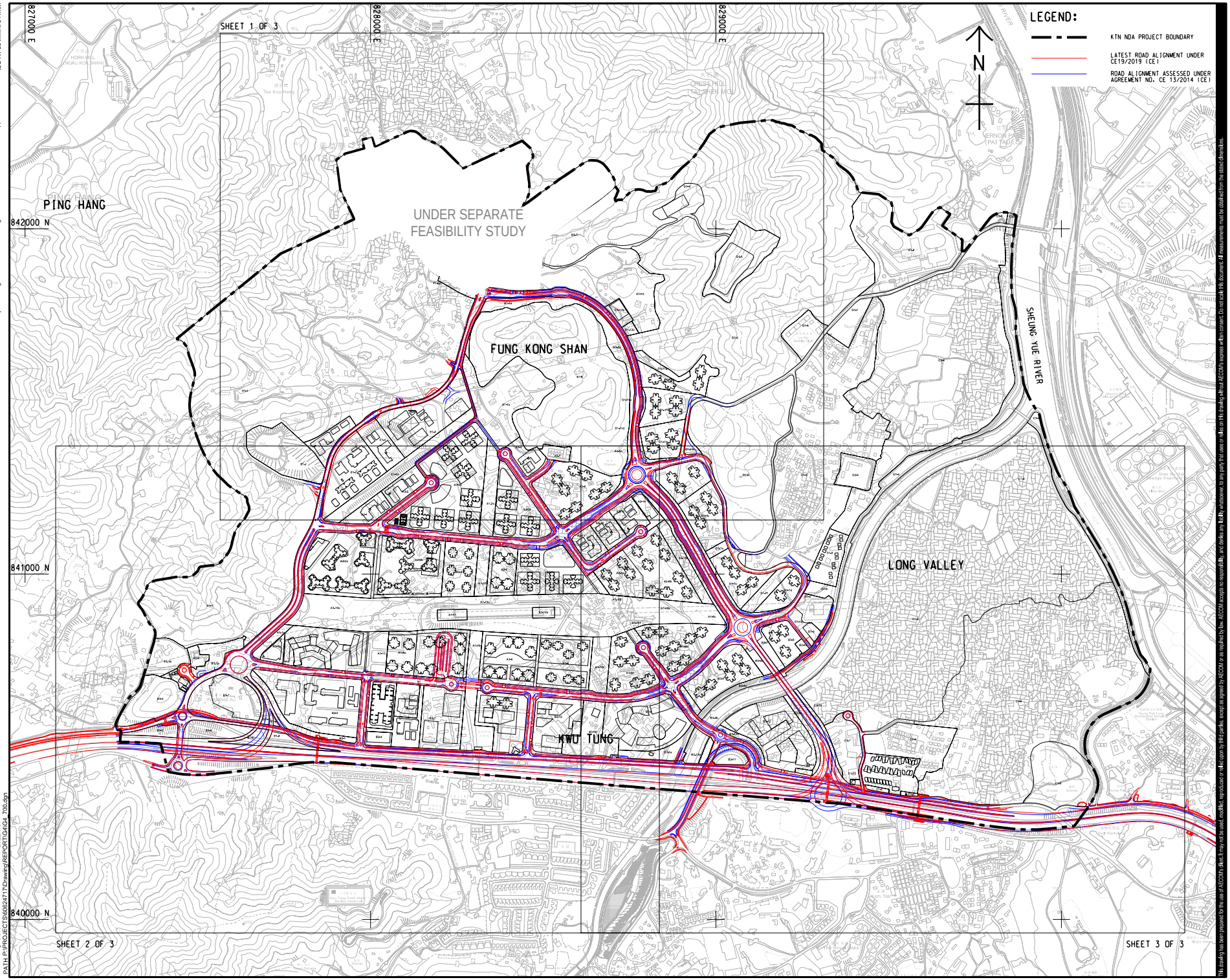

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PROJECT

DEVELOPMENT OF KWU TUNG NORTH NEW DEVELOPMENT AREA, REMAINING PHASE - DESIGN & CONSTRUCTION

CLIENT

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

CONSULTANT

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IR	DATE	DESCRIPTION	CHK.

STATUS

SCALE A1 1 : 5000

DIMENSION UNIT METRES

KEY PLAN

PROJECT NO. 60624717

CONTRACT NO. CE 19/2019 (CE)

SHEET TITLE

DESIGN CHANGES (KEY PLAN)

SHEET NUMBER

60624717/TNMP/DP3/APPENDIX 1.1

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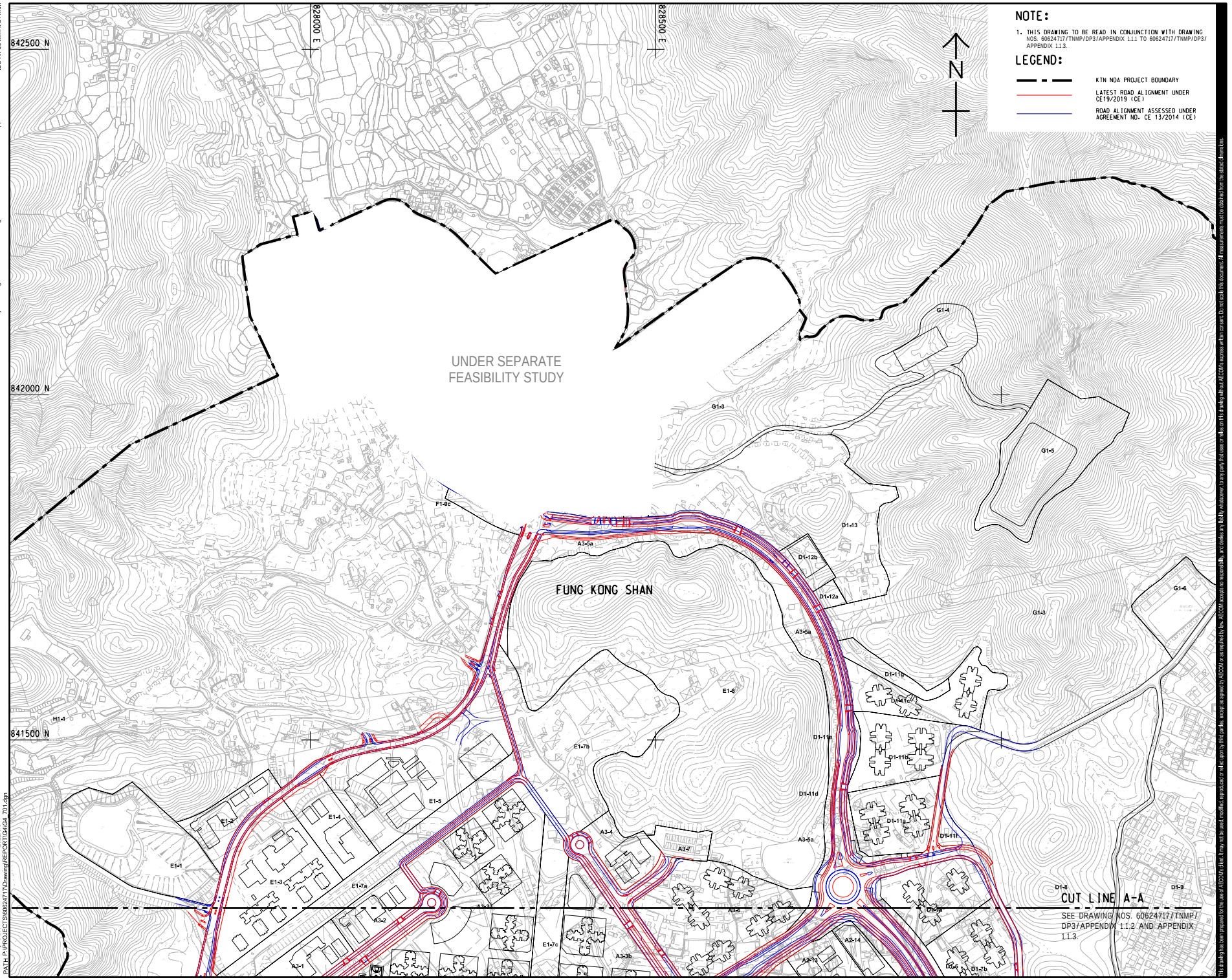
Designer:
Project Management Initials:
Plot File by: JiaW
PATH: P:\PROJECTS\60624717\Drawing\REPORT\Gis\Gis_700.dgn
2022/6/8



ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

Plot File by: JiaW
PATH: P:\PROJECTS\60624717\Drawing\REPORT\04\04_701.dgn
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STATUS

SCALE

A1 1 : 2500

DIMENSION UNIT

METRES

KEY PLAN

PROJECT NO.

60624717

CONTRACT NO.

CE 19/2019 (CE)

SHEET TITLE

DESIGN CHANGES

SHEET 1 OF 3

SHEET NUMBER

60624717/TNMP/DP3/APPENDIX 1.1.1

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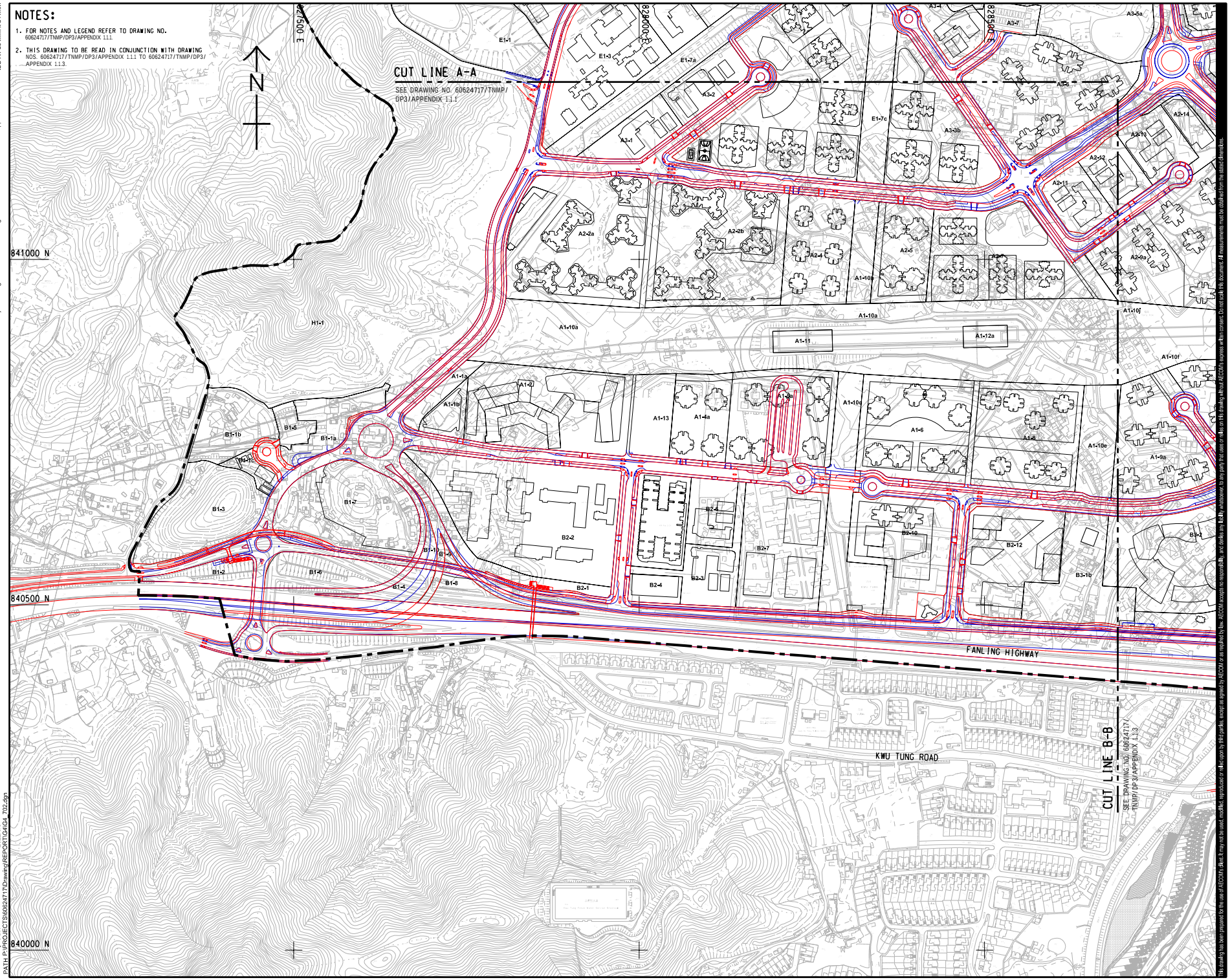

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

Plot File by: JaW
PATH: P:\PROJECTS\60624717\Drawing\REPORT\GA\Ga_702.dgn
2022/6/8

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項目

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修訂

IR 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對

STATUS
狀況

SCALE
比例

A1 1 : 2500

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

PROJECT NO.
項目編號

60624717

CONTRACT NO.
合約編號

CE 19/2019 (CE)

SHEET TITLE
圖紙名稱

DESIGN CHANGES

SHEET 2 OF 3

SHEET NUMBER
圖紙編號

60624717/TNMP/DP3/APPENDIX 1.1.2

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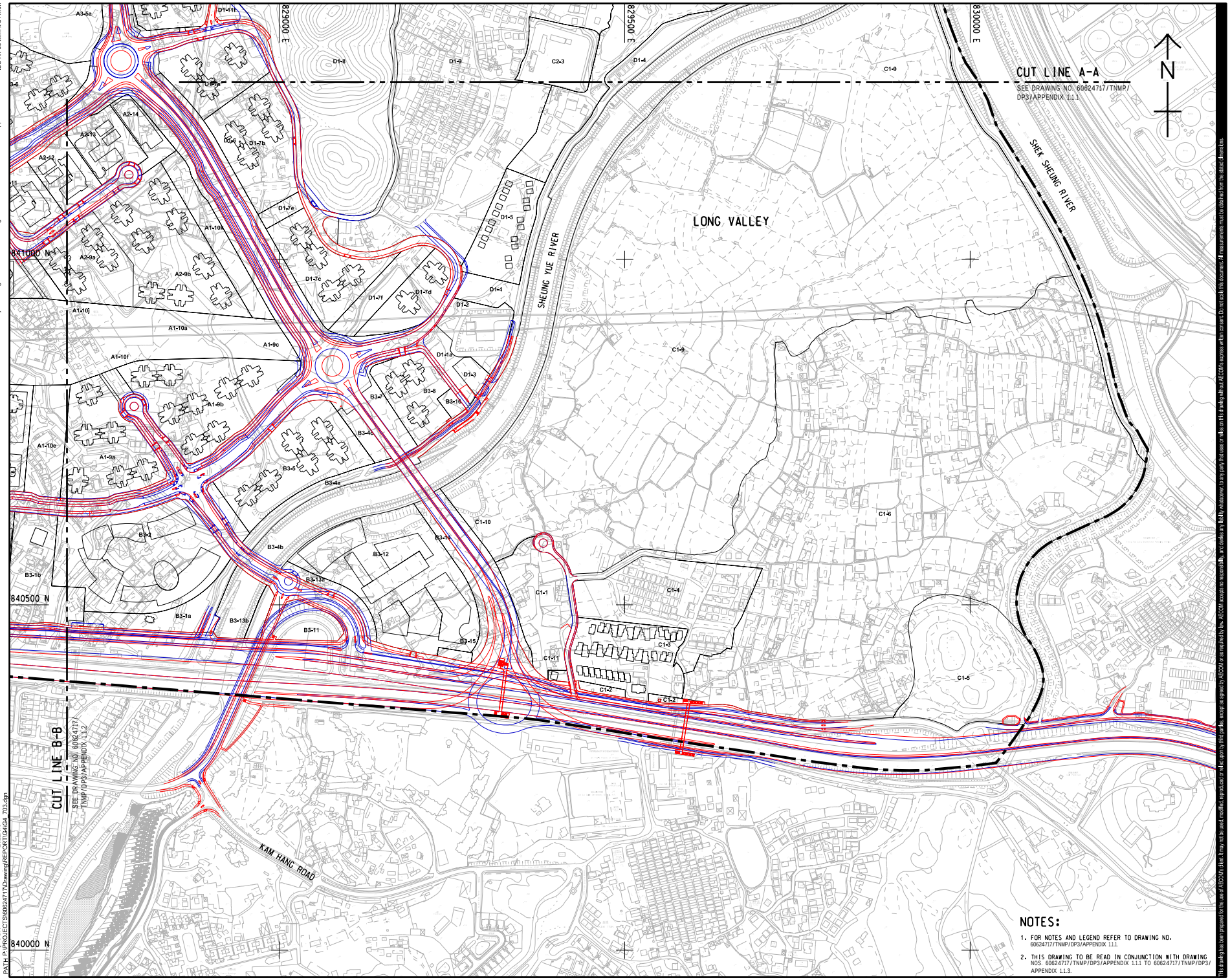

NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60624717/TNMP/DP3/APPENDIX 1.1.1
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60624717/TNMP/DP3/APPENDIX 1.1.1 TO 60624717/TNMP/DP3/APPENDIX 1.1.3.

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PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH NEW DEVELOPMENT AREA, REMAINING PHASE - DESIGN & CONSTRUCTION

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CEDD Civil Engineering and Development Department

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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: 60624717

CONTRACT NO. 合約編號: CE 19/2019 (CE)

SHEET TITLE
圖紙名稱

DESIGN CHANGES

SHEET 3 OF 3

SHEET NUMBER
圖紙編號

60624717/TNMP/DP3/APPENDIX 1.1.3

ISO A1 594mm x 841mm
Approved:
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Designer:
Project Management Initials:
2022/6/8
Plot File by: JtaW
PATH P:\PROJECTS\60624717\Drawing\REPORT\G4\G4_703.dgn

Appendix 1.2
Updated Traffic Noise Mitigation Measures Plan

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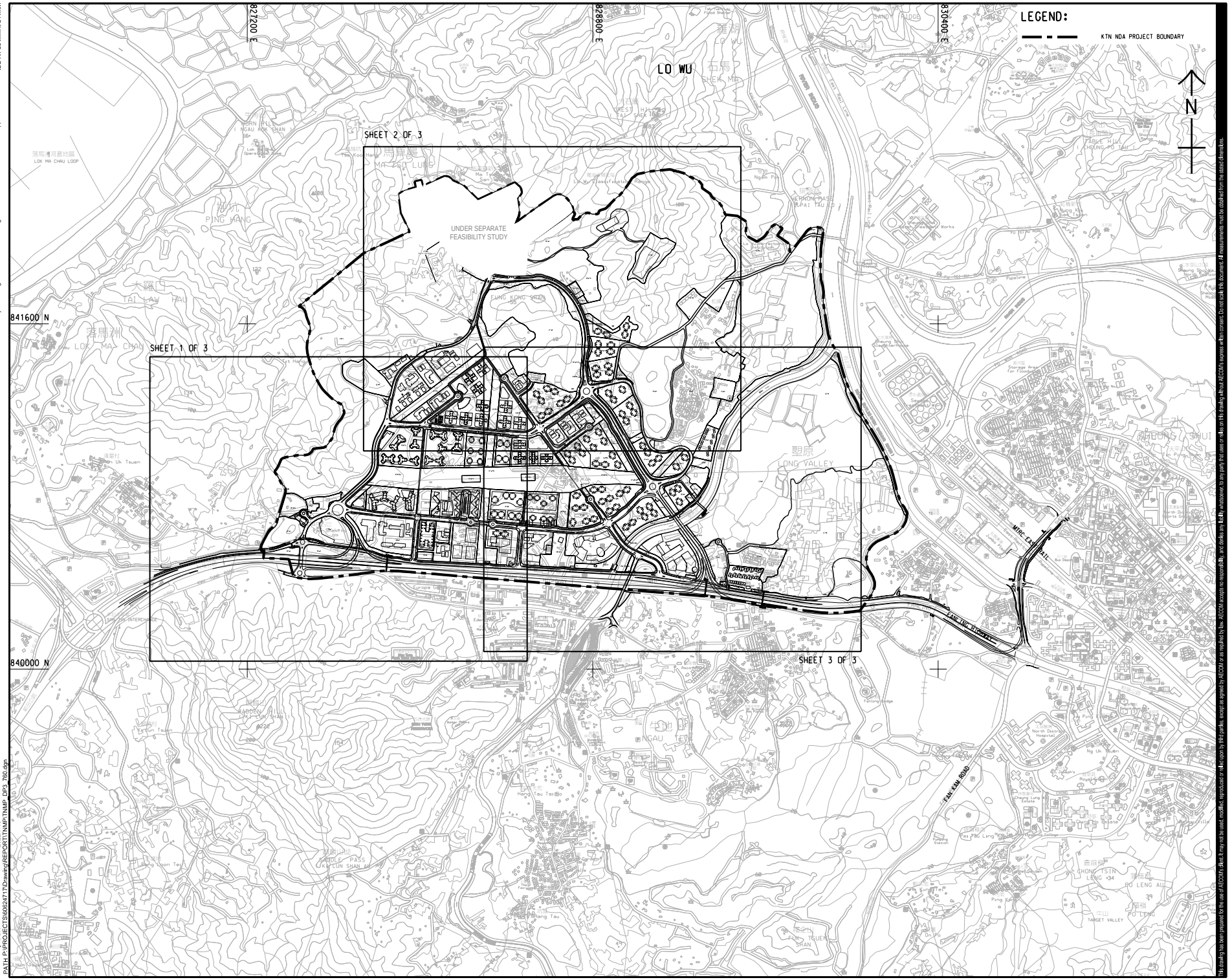

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PROJECT
項目

DEVELOPMENT OF
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STATUS
狀況

SCALE 比例
A1 1 : 8000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60624717

CONTRACT NO. 合約編號
CE 19/2019 (CE)

SHEET TITLE
圖紙名稱

UPDATED TRAFFIC NOISE
MITIGATION MEASURES PLAN -
KEY PLAN

SHEET NUMBER
圖紙編號

60624717/TNMP/DP3/APPENDIX 1.2.1

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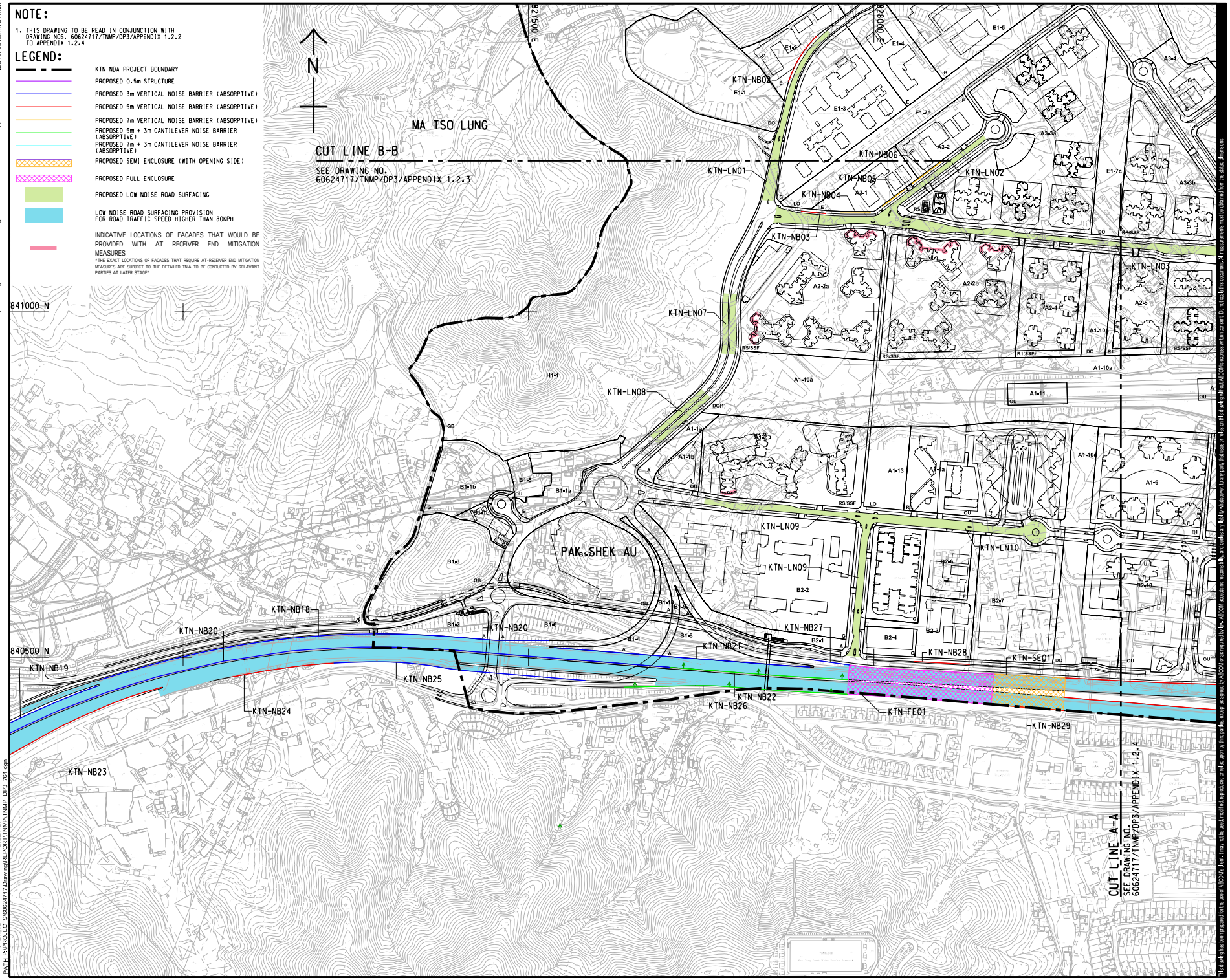
Plot File by: JiaW
PATH: P:\PROJECTS\60624717\Drawing\REPORT\TNMP\TNMP_DP3_760.dgn
2022/7/19



ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

Plot File by: Ling-J2
PATH: P:\PROJECTS\60624717\Drawing\REPORT\TNMP\TNMP_DP3_761.dgn
2022/7/20

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PROJECT
DEVELOPMENT OF KWU TUNG NORTH NEW DEVELOPMENT AREA, REMAINING PHASE - DESIGN & CONSTRUCTION

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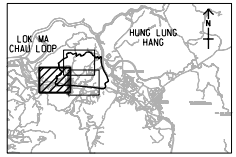
STATUS

SCALE: A1 1 : 2500
DIMENSION UNIT: METRES

KEY PLAN A1 1 : 150000



PROJECT NO. 60624717
CONTRACT NO. CE 19/2019 (CE)

SHEET TITLE
UPDATED TRAFFIC NOISE MITIGATION MEASURES PLAN

SHEET 1 OF 3

SHEET NUMBER
60624717/TNMP/DP3/APPENDIX 1.2.2

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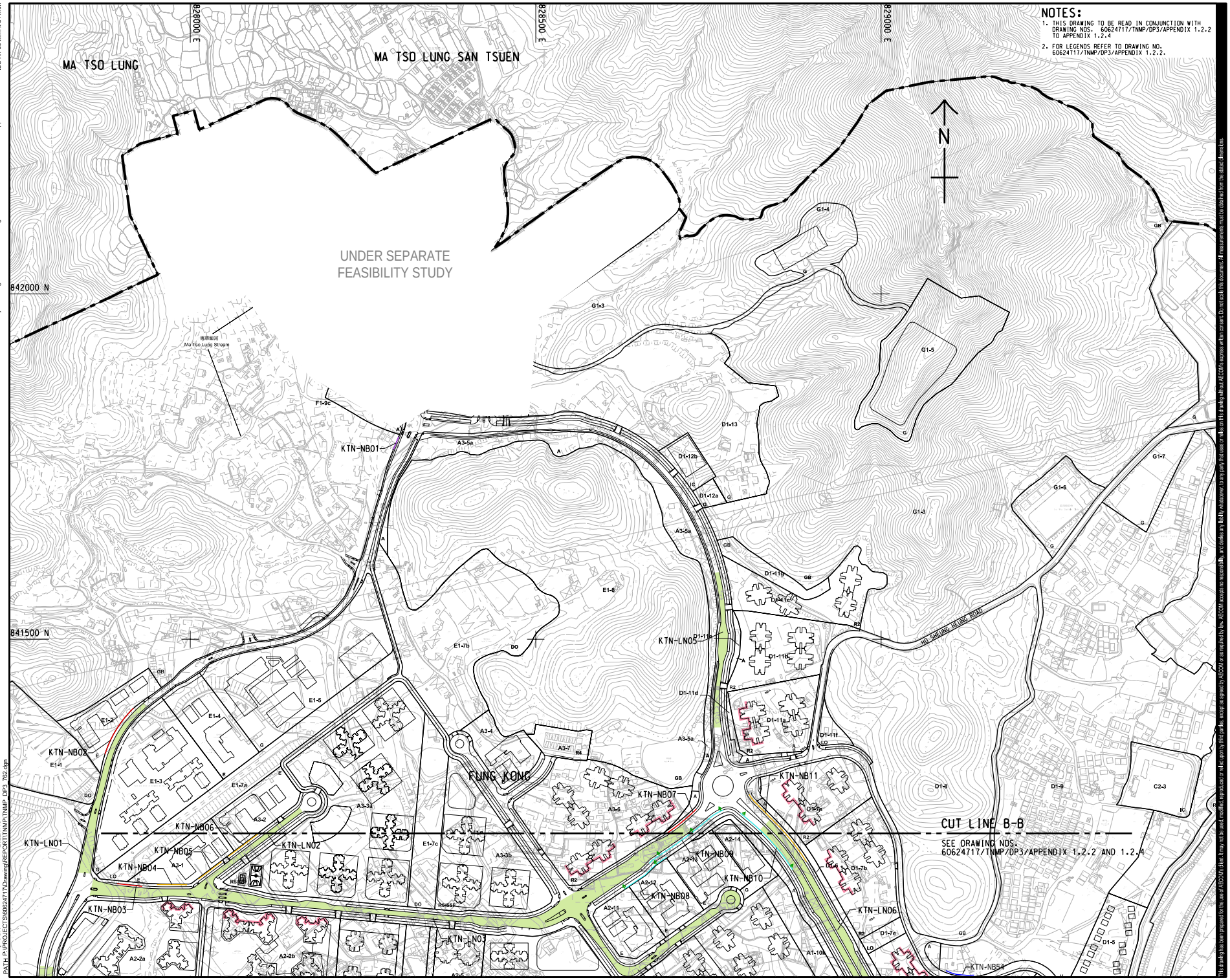

ISO A1 594mm x 841mm

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Designer:

Project Management Initials:

Plot File by: JiaW
PATH: P:\PROJECTS\60624717\Drawing\REPORT\TNMP\TNMP_DP3_762.dgn
2022/7/18

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PROJECT
項目

DEVELOPMENT OF KWU TUNG NORTH NEW DEVELOPMENT AREA, REMAINING PHASE - DESIGN & CONSTRUCTION

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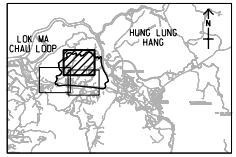
STATUS
狀況

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
60624717

CONTRACT NO. 合約編號
CE 19/2019 (CE)

SHEET TITLE 圖紙名稱
UPDATED TRAFFIC NOISE MITIGATION MEASURES PLAN

SHEET 2 OF 3

SHEET NUMBER 圖紙編號
60624717/TNMP/DP3/APPENDIX 1.2.3

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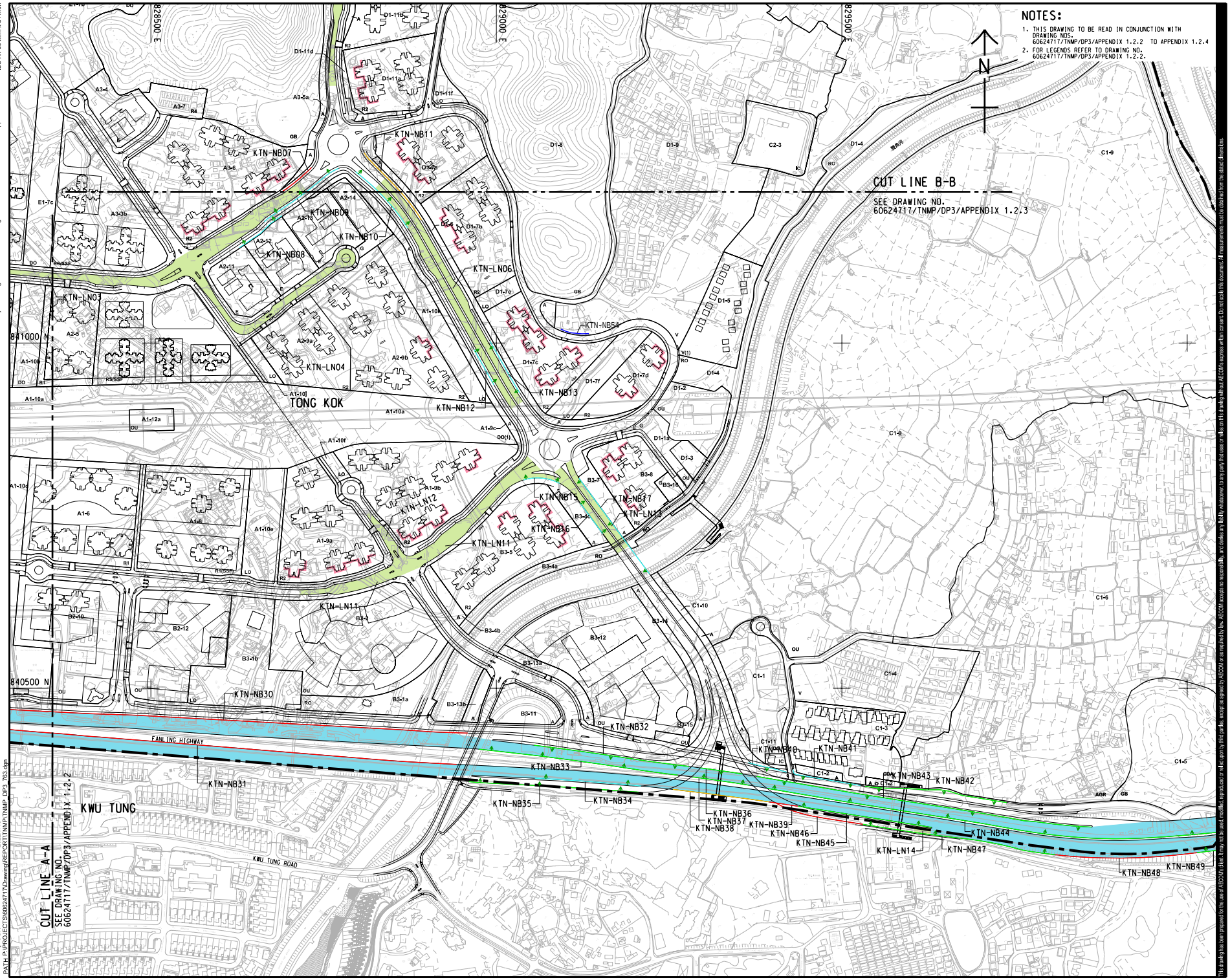

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DEVELOPMENT OF KWU TUNG NORTH NEW DEVELOPMENT AREA, REMAINING PHASE - DESIGN & CONSTRUCTION

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STATUS

SCALE A1 1 : 2500

DIMENSION UNIT METRES

KEY PLAN A1 1 : 150000

PROJECT NO. 60624717

CONTRACT NO. CE 19/2019 (CE)

SHEET TITLE

UPDATED TRAFFIC NOISE MITIGATION MEASURES PLAN

SHEET 3 OF 3

SHEET NUMBER

60624717/TNMP/DP3/APPENDIX 1.2.4

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Checked:
Designer:
Project Management Initials:
Plot File by: JiaW
PATH: P:\PROJECTS\60624717\Drawing\REPORT\TNMP\TNMP_DP3_763.dgn
2022/7/18

Appendix 2.1
Details of Road Traffic Forecast at Year 2046

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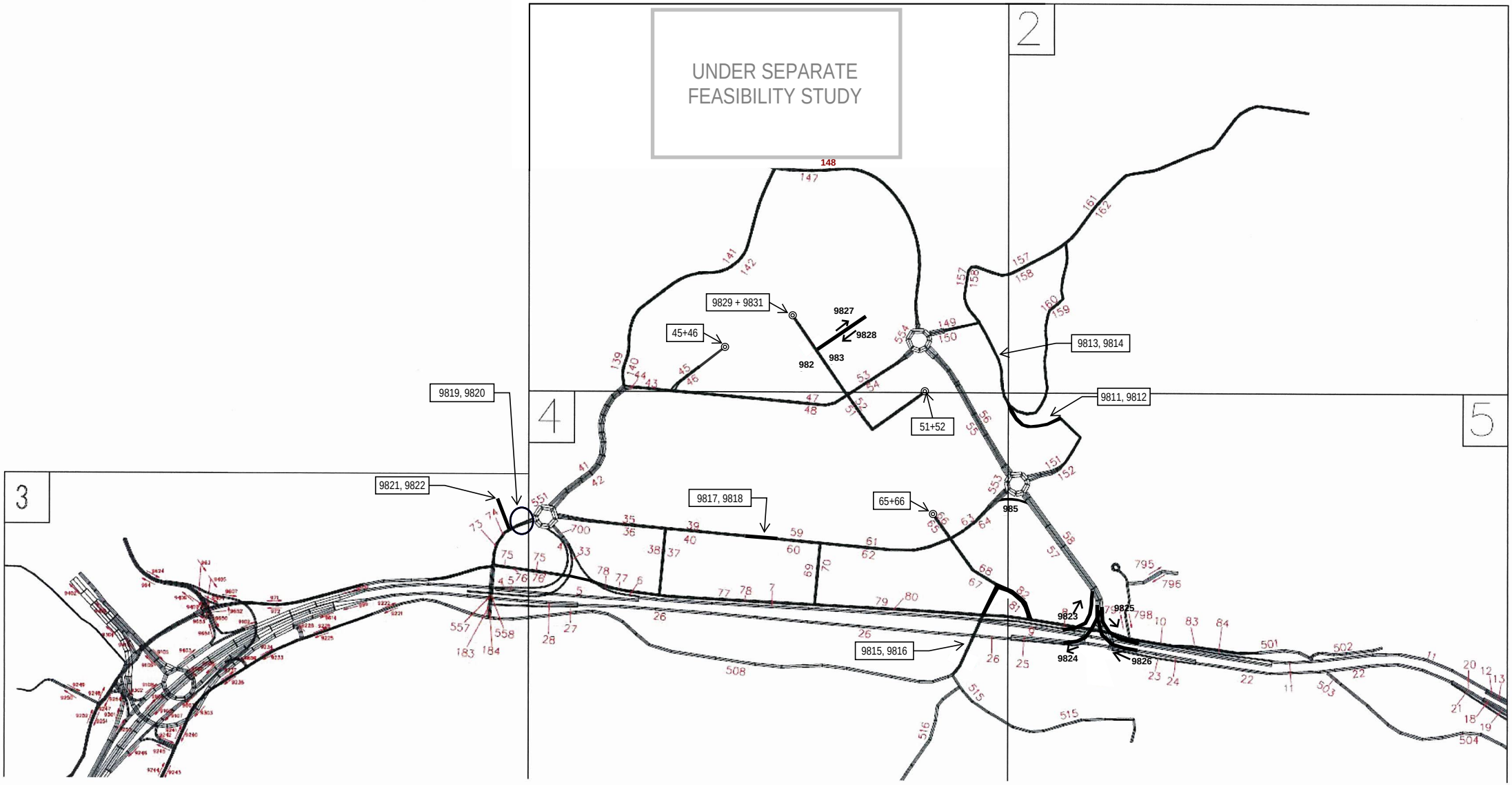
UNDER SEPARATE
FEASIBILITY STUDY
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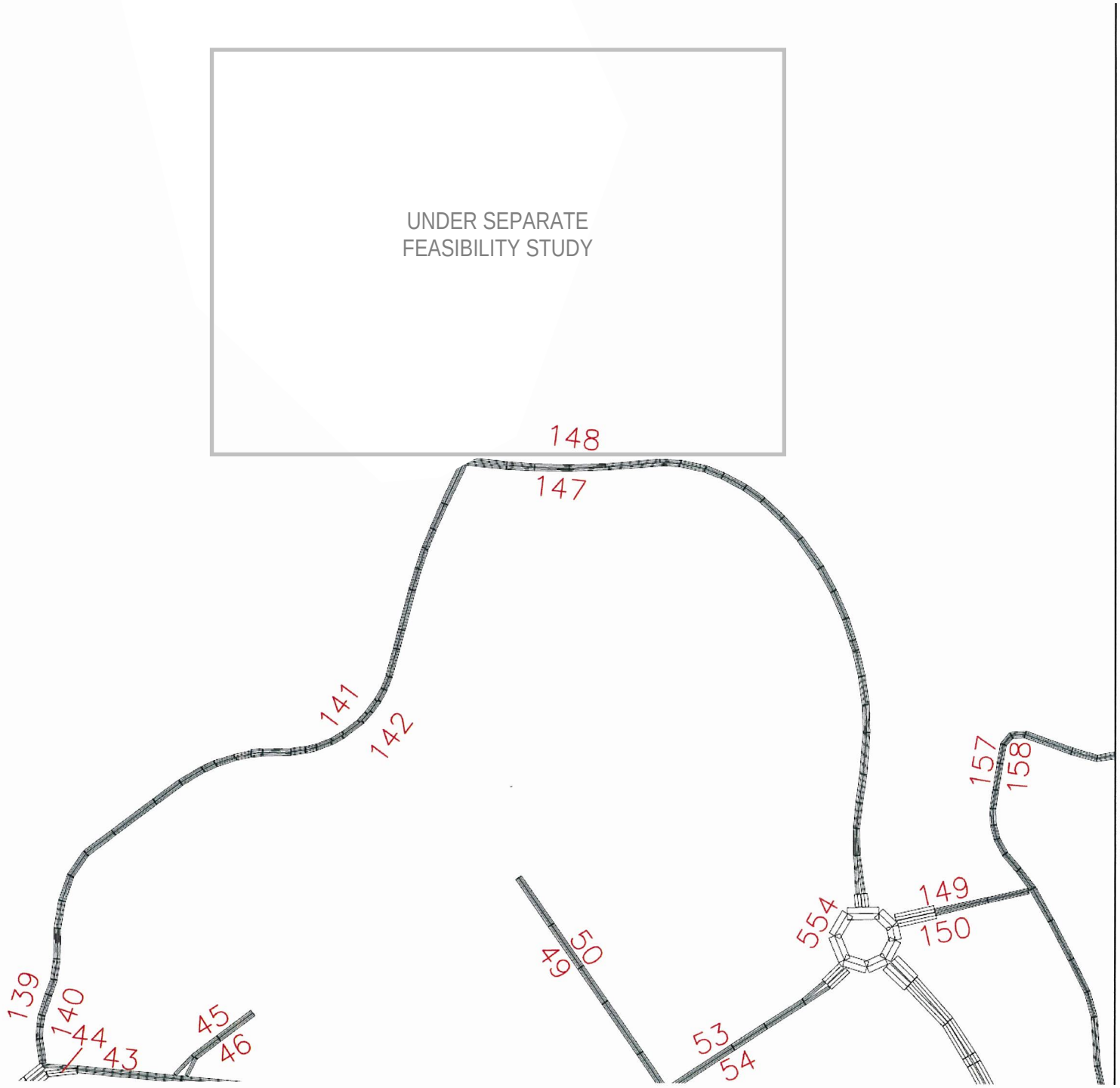
3
4
5
9829 + 9831
9827
9828
983
982
45+46
9813, 9814
9819, 9820
9811, 9812
51+52
9821, 9822
9817, 9818
65+66
985
9823
9824
9825
9826
9815, 9816

Figure 1


UNDER SEPARATE
FEASIBILITY STUDY
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54

Figure 2

2

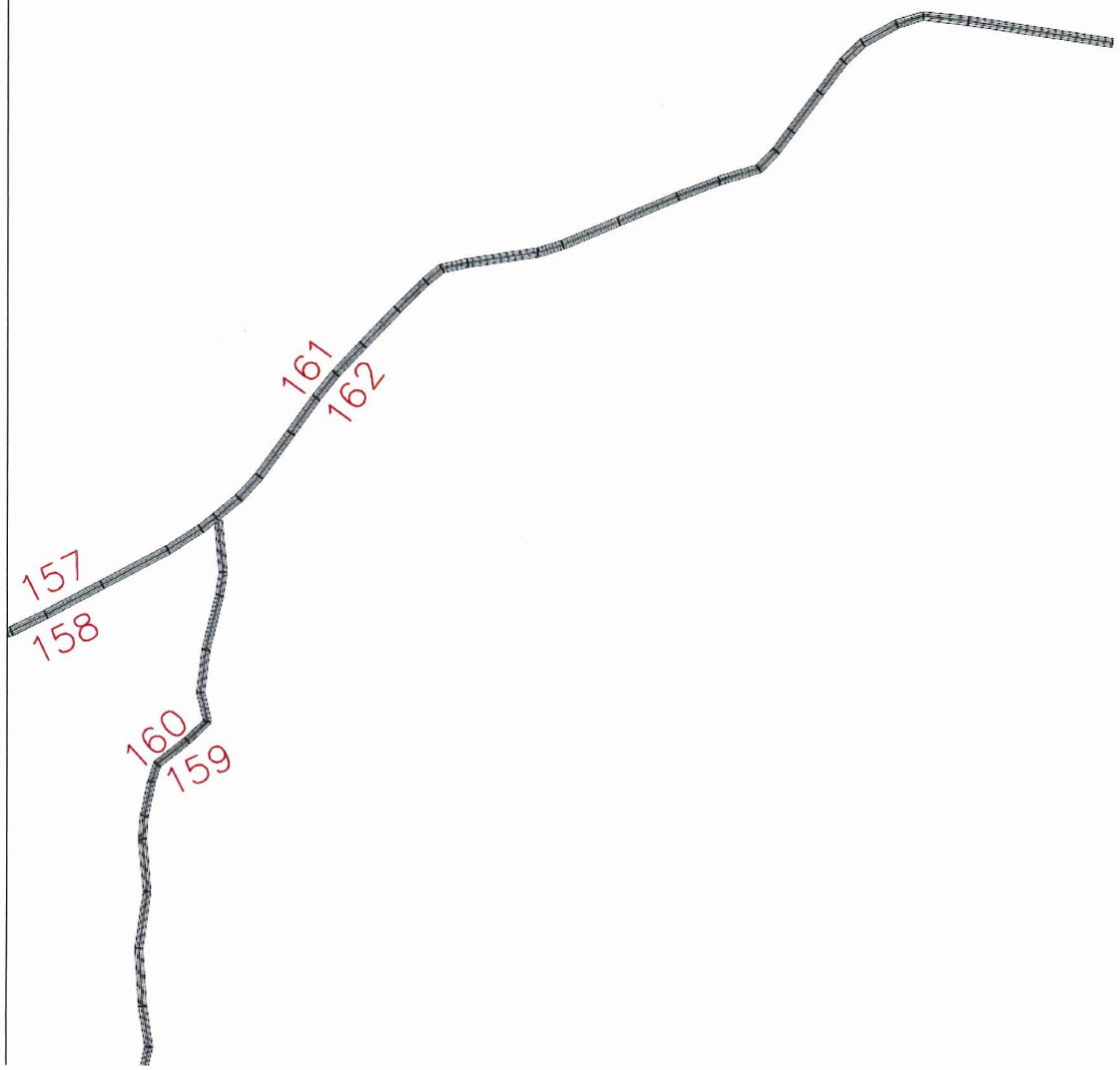

Figure 3

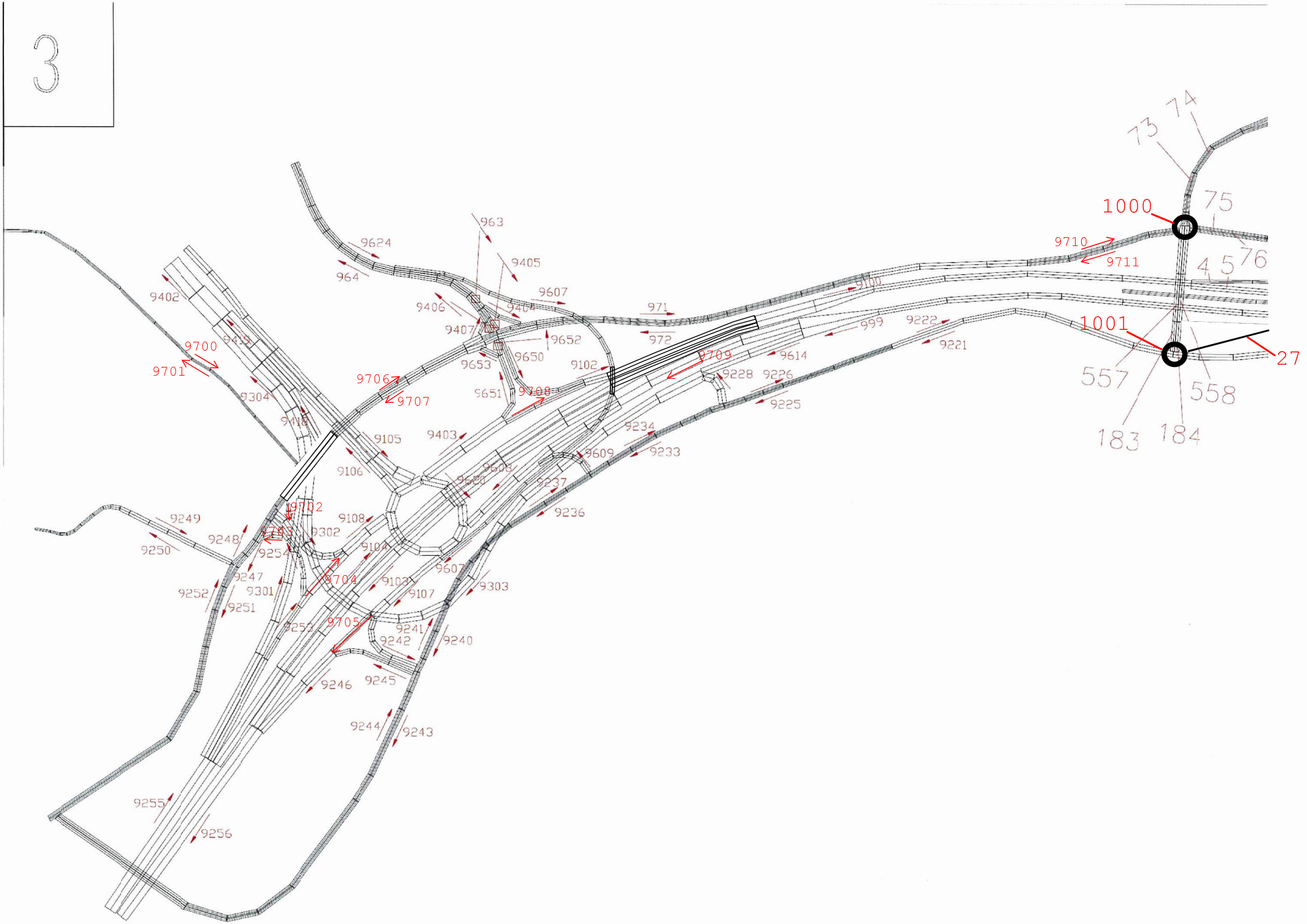
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Figure 4

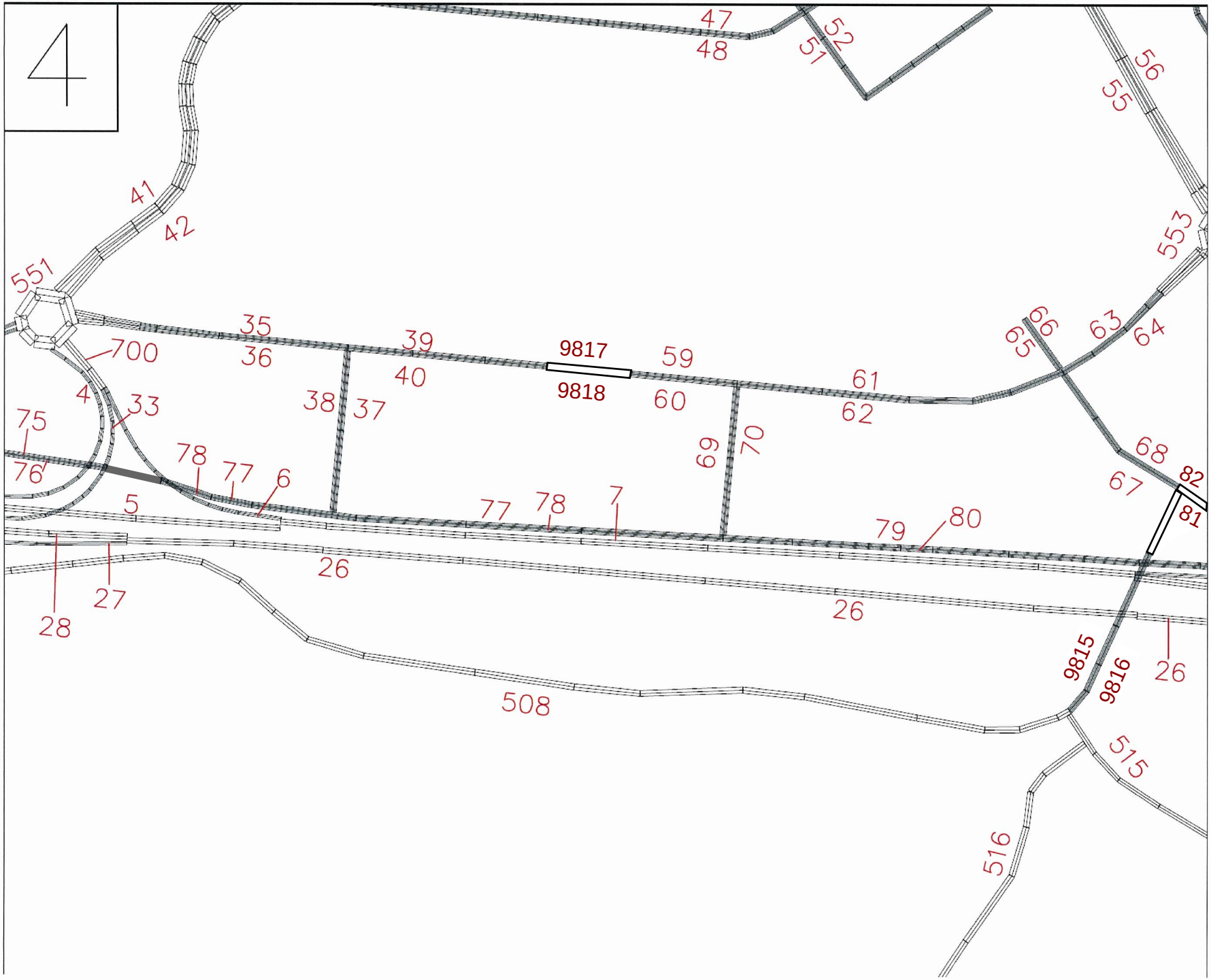
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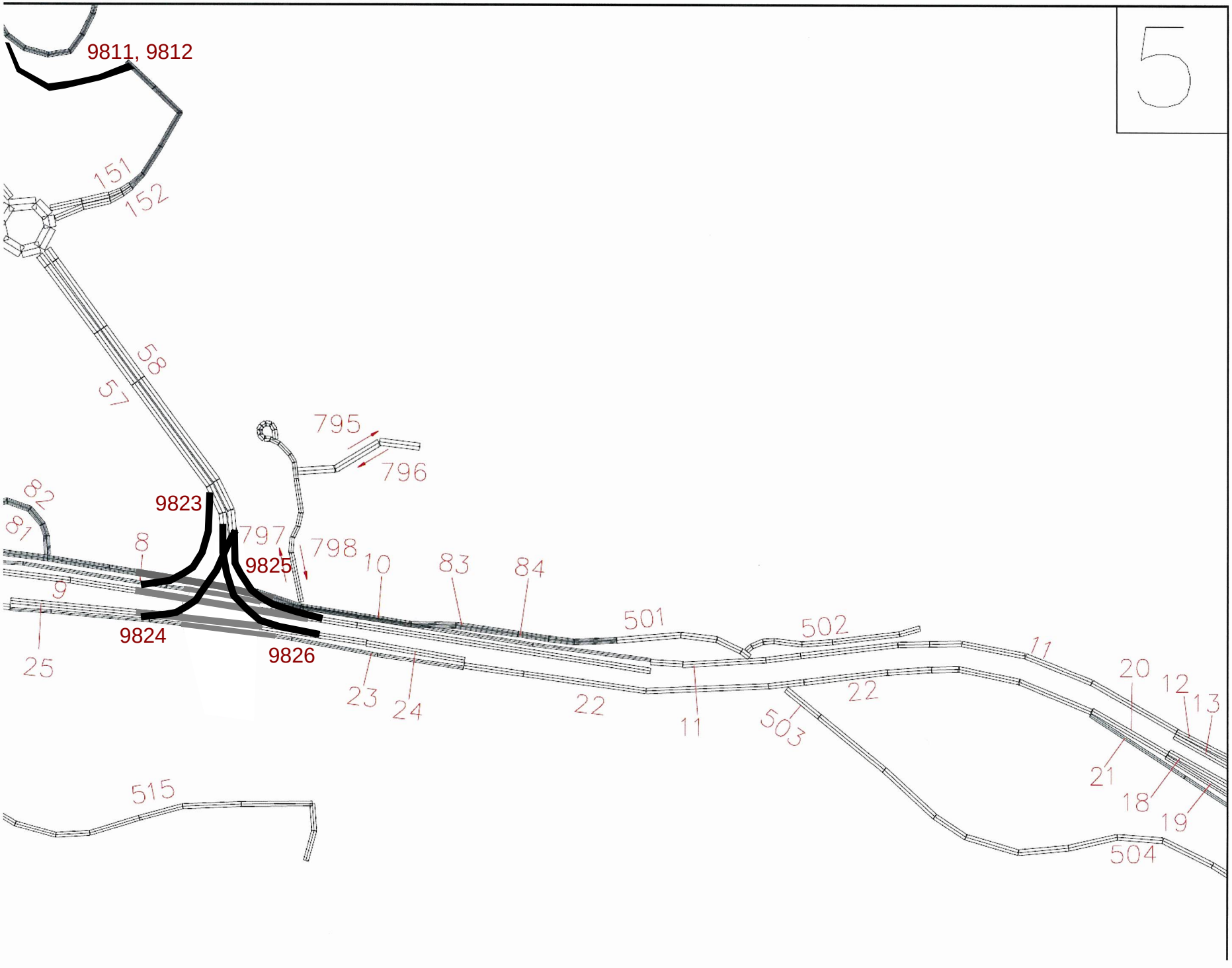
Figure 5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502
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9824
9826
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24
22
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503
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21
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504
515

Figure 6

2041 Traffic Flows and Breakdown by 2 Vehicle Classes

Link No.	Total Vehicle	Total Vehicle	HV%	HV%	Speed Limit
	AM	PM	AM	PM	km/hr
4	1205	1081	17.6%	12.1%	50
5	3215	4431	41.0%	24.0%	100
6	669	745	22.4%	20.5%	50
7	3884	5176	37.8%	23.5%	100
8	86	122	20.3%	11.6%	50
9	3798	5054	38.2%	23.8%	100
10	1764	1488	22.9%	16.4%	50
11	5562	6542	33.3%	22.1%	100
12	1537	1678	35.7%	29.3%	50
13	4025	4864	32.4%	19.7%	100
14	1030	788	29.3%	25.2%	50
15	4984	5575	32.0%	20.5%	100
16	5401	5483	26.7%	23.8%	100
17	786	767	33.3%	25.6%	50
18	4702	4775	25.4%	23.4%	100
19	709	653	31.6%	30.5%	50
20	5411	5429	26.2%	24.2%	100
21	1140	1327	41.9%	32.7%	50
22	6551	6756	29.0%	25.9%	100
23	1999	2105	22.5%	16.3%	50
24	4552	4650	31.8%	30.2%	100
25	342	131	16.7%	19.6%	50
26	4894	4781	30.7%	29.9%	100
27	947	942	25.5%	26.5%	50
28	3947	3839	32.0%	30.8%	100
33	1242	947	18.9%	21.5%	50
35	308	338	21.7%	18.3%	50
36	385	315	21.3%	21.8%	50
37	64	47	16.8%	17.1%	50
38	101	35	23.2%	16.1%	50
39	321	301	23.5%	18.8%	50
40	358	286	21.6%	22.3%	50
41	961	652	19.3%	19.1%	50
42	955	728	22.0%	25.5%	50
43	489	479	22.1%	15.7%	50
44	508	440	21.1%	24.9%	50
45	236	260	19.2%	12.2%	50
46	298	215	17.1%	17.4%	50
47	755	509	22.7%	22.0%	50
48	537	655	29.2%	19.4%	50
49	160	187	21.9%	10.1%	50
50	253	138	14.7%	17.8%	50
51	45	40	14.2%	17.9%	50
52	47	32	22.2%	12.1%	50
53	917	548	20.6%	23.3%	50
54	609	734	29.1%	18.1%	50
55	1348	1249	25.6%	19.3%	50
56	1356	1112	23.3%	19.3%	50
57	2084	2227	22.4%	16.1%	50
58	2106	1619	21.9%	16.7%	50
59	184	130	29.9%	34.3%	50
60	126	168	36.7%	26.3%	50

61	347	333	27.6%	22.4%	50
62	406	507	26.2%	22.3%	50
63	671	497	24.2%	21.8%	50
64	665	972	23.7%	18.4%	50
65	277	110	19.0%	18.6%	50
66	125	181	20.9%	13.4%	50
67	84	33	35.8%	41.1%	50
68	203	188	19.7%	24.3%	50
69	241	277	27.1%	17.8%	50
70	348	375	22.8%	24.7%	50
73	1048	964	22.3%	21.8%	50
74	391	447	23.0%	16.5%	50
75	242	249	31.4%	23.3%	50
76	305	297	22.2%	26.2%	50
77	280	296	29.8%	22.3%	50
78	380	332	23.1%	25.1%	50
79	128	149	46.1%	41.3%	50
80	120	87	40.9%	41.3%	50
81	256	438	35.3%	22.2%	50
82	494	540	25.4%	23.0%	50
83	610	686	29.6%	27.0%	50
84	365	506	38.3%	25.0%	50
95	1875	1757	38.9%	35.9%	50
96	1114	850	38.9%	42.0%	50
111	1849	1737	34.5%	32.0%	50
112	600	438	38.5%	45.6%	50
113	1740	1765	40.7%	35.9%	50
114	1002	1123	43.4%	35.7%	50
115	969	1143	43.7%	41.1%	50
133	1128	1064	45.1%	42.6%	50
134	1089	1198	44.9%	40.8%	50
135	1109	1048	45.3%	42.9%	50
136	1089	1198	44.9%	40.8%	50
139	489	187	16.3%	27.1%	50
140	464	303	22.7%	25.5%	50
141	379	169	11.6%	27.0%	50
142	383	277	27.1%	25.4%	50
147	710	418	25.4%	29.8%	50
148	274	507	45.3%	19.6%	50
149	130	122	22.6%	17.9%	50
150	186	111	21.3%	21.0%	50
151	165	177	26.5%	17.5%	50
152	209	172	33.7%	20.0%	50
157	55	47	24.8%	24.9%	50
158	58	60	25.7%	23.1%	50
159	40	69	78.0%	10.6%	50
160	44	48	24.5%	13.4%	50
161	99	95	24.7%	19.2%	50
162	97	129	47.8%	16.4%	50
183	892	931	17.3%	20.8%	50
184	157	224	19.8%	14.8%	50
313	279	257	36.4%	39.4%	50
314	184	161	51.3%	56.8%	50
369	459	499	55.9%	43.1%	50
370	756	731	42.0%	32.7%	50
371	934	936	29.1%	21.5%	50
372	1240	932	20.2%	28.0%	50
377	403	478	31.1%	42.1%	50

378	505	652	36.1%	27.8%	50
379	1586	1510	32.6%	23.6%	50
380	1607	1348	29.7%	28.7%	50
389	570	542	26.9%	43.6%	50
390	230	421	34.7%	27.4%	50
501	975	1192	32.9%	26.2%	50
502	160	147	27.8%	22.3%	50
503	1057	1270	31.9%	25.9%	50
504	1262	1450	28.8%	24.1%	50
508	729	657	20.7%	24.1%	50
515	110	73	28.5%	32.2%	50
516*	542	433	24.2%	20.8%	50
551	1966	1721	20.3%	19.1%	50
552	2095	1923	22.2%	16.3%	50
553	2081	1959	23.7%	17.8%	50
554	1279	1138	25.7%	20.4%	50
556	2464	2307	33.8%	29.5%	50
557	892	931	17.3%	20.8%	50
558	157	224	19.8%	14.8%	50
603	486	353	27.8%	23.3%	50
604	534	659	58.4%	36.6%	50
605	686	593	29.9%	21.0%	50
606	569	541	21.7%	20.8%	50
607	175	337	24.6%	21.7%	50
611	1305	980	34.6%	35.5%	50
612	874	587	41.8%	42.6%	50
613	524	483	19.9%	25.4%	50
619	153	173	44.1%	41.9%	50
700	1912	1693	20.1%	21.1%	50
795	32	31	42.7%	23.4%	50
796	31	47	30.8%	28.2%	50
797	32	31	42.7%	23.4%	50
798	31	47	30.8%	28.2%	50
801	1994	1648	27.0%	26.6%	50
802	2805	2732	29.8%	23.8%	50
803	697	590	29.5%	31.4%	50
804	349	295	29.5%	31.4%	50
805	349	295	29.5%	31.4%	50
806	174	148	29.5%	31.4%	50
807	174	148	29.5%	31.4%	50
808	1011	793	27.8%	31.3%	50
809	627	570	27.5%	25.4%	50
810	533	509	33.8%	25.1%	50
811	202	185	23.8%	18.6%	50
812	101	92	23.8%	18.6%	50
813	202	185	23.8%	18.6%	50
814	229	230	23.0%	20.4%	50
815	135	208	19.2%	17.2%	50
816	386	367	36.2%	24.7%	50
963	156	472	58.9%	16.5%	50
964	1086	603	20.5%	31.1%	50
971	120	161	64.0%	44.1%	50
972	261	399	18.1%	28.9%	50
999	5189	4787	28.8%	28.9%	100
1000	854	918	22.8%	22.7%	50
1001	827	772	23.5%	26.1%	50
9100	4420	5512	34.6%	21.7%	100
9102	116	345	49.2%	11.0%	50

9103	4033	4075	31.6%	28.9%	100
9104	3895	3929	34.5%	24.1%	100
9105	278	999	7.4%	3.6%	50
9106	12	13	28.1%	25.7%	50
9107	956	1168	37.4%	35.3%	50
9108	238	701	36.6%	45.7%	50
9221	322	110	23.0%	41.1%	50
9222	72	96	27.4%	45.9%	50
9225	322	110	23.0%	41.1%	50
9226	72	96	27.4%	45.9%	50
9228	16	13	22.7%	25.7%	50
9233	322	110	23.0%	41.1%	50
9234	72	96	27.4%	45.9%	50
9236	44	71	44.2%	28.2%	50
9237	319	265	43.1%	53.2%	50
9240	150	141	47.5%	40.7%	50
9241	329	374	46.5%	51.7%	50
9242	294	371	45.4%	48.4%	50
9243	330	359	47.8%	49.7%	50
9244	343	322	51.4%	60.3%	50
9245	128	101	54.7%	58.9%	50
9246	790	898	37.2%	32.6%	50
9247	242	221	54.1%	52.2%	50
9248	290	363	43.9%	46.1%	50
9249	88	92	44.1%	38.7%	50
9250	125	168	39.7%	45.2%	50
9251	168	88	62.4%	63.3%	50
9252	253	306	44.4%	48.3%	50
9253	517	413	39.1%	56.8%	50
9254	348	162	46.4%	58.8%	50
9255	4565	4427	34.1%	26.7%	100
9256	4823	4973	32.5%	29.5%	100
9301	156	89	8.2%	6.5%	50
9302	69	451	67.4%	40.3%	50
9303	399	247	7.1%	4.5%	50
9304	552	333	6.9%	4.2%	50
9402	568	336	6.9%	4.2%	50
9403	1087	1620	22.2%	23.2%	50
9404	12	83	28.1%	8.6%	50
9405	153	389	59.3%	18.2%	50
9406	763	542	13.8%	25.6%	50
9407	324	61	36.0%	80.6%	50
9418	15	13	24.3%	25.7%	50
9419	568	336	6.9%	4.2%	50
9607	237	424	50.3%	30.4%	50
9608	1297	670	28.9%	45.7%	50
9609	522	198	33.8%	52.7%	50
9614	385	243	7.1%	4.5%	50
9620	134	335	23.9%	21.0%	50
9624	393	896	53.7%	23.1%	50
9650	116	345	49.2%	11.0%	50
9651	678	382	16.8%	43.2%	50
9652	524	244	13.5%	41.6%	50
9653	153	138	28.1%	46.0%	50
9700	53	49	39.5%	36.8%	50
9701	73	72	42.9%	55.3%	50
9702	41	161	78.6%	44.2%	50
9703	55	69	47.4%	34.0%	50

9704	169	250	24.0%	55.5%	50
9705	662	797	33.8%	29.3%	50
9706	496	121	45.4%	84.2%	50
9707	202	292	62.2%	54.3%	50
9708	409	1238	31.2%	17.0%	50
9709	4807	4546	30.6%	30.3%	100
9710	120	161	64.0%	44.1%	50
9711	261	399	18.1%	28.9%	50
9811	94	99	32.3%	25.4%	50
9812	109	141	50.9%	21.9%	50
9813	21	22	58.5%	56.5%	50
9814	21	22	58.5%	56.5%	50
9815	410	316	24.1%	26.1%	50
9816	267	330	31.6%	23.1%	50
9817	37	38	76.3%	75.0%	50
9818	37	38	76.3%	75.0%	50
9819	1048	964	22.3%	21.8%	50
9820	391	447	23.0%	16.5%	50
9821	12	13	28.1%	25.7%	50
9822	12	13	28.1%	25.7%	50
9823	86	122	20.3%	11.6%	50
9824	342	131	16.7%	19.6%	50
9825	1764	1488	22.9%	16.4%	50
9826	1999	2105	22.5%	16.3%	50
9827	12	13	28.1%	25.7%	50
9828	12	13	28.1%	25.7%	50
9829	160	187	21.9%	10.1%	50
9830	253	138	14.7%	17.8%	50
9857	689	868	19.9%	14.7%	50
9858	404	312	28.0%	22.1%	50

Note:

* Results from traffic model show that only 5% of the traffic flow at Kam Hang Road (road link ID: 516) contributed to the development of KTN NDA.

By Fax
3922 9797

運輸署
Transport Department

本署檔案 Our Ref. : (P2LGJ) in TD TP/171/70/12-5
來函檔號 Your Ref. : RPCM:BCKY:HMKH:mlpm:60624717/20.1-2022008395L
電 話 Tel. : 3842 6026
圖文傳真 Fax : 2802 2673
電 郵 Email : holam@td.gov.hk

AECOM Asia Co. Ltd.
12/F Grand Central Plaza, Tower 2
138 Shatin Rural Committee Road
Shatin, Hong Kong
(Attn: Raymond Pau)

28 June 2022

Dear Mr. Pau,

Agreement No. CE 19/2019 (CE)
Development of Kwu Tung North New Development Area, Remaining Phase – Design and Construction

Technical Note 6 on Methodology on Traffic Forecast for Noise Impact Assessment (Issue 1)

Your letter dated 15 June 2022 refers. Our comment from transport planning perspective are as follows:

(i) Please be reminded that the projected traffic data shall be updated in case of changes to the current assumed speed limit and transport model in TIA study.

Yours faithfully,

(Michael H Lam)
for Commissioner for Transport

Internal
SE5/TP, E12/TP

運輸策劃部 Transport Planning Division
九龍油麻地海底道 11 號 西九龍政府合署南座 12 樓
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Our Values • We will • bring out the best in people • be fair, open and caring • take responsibility • be proactive • strive for excellence

Appendix 2.2
Computer Plot of Road Scheme

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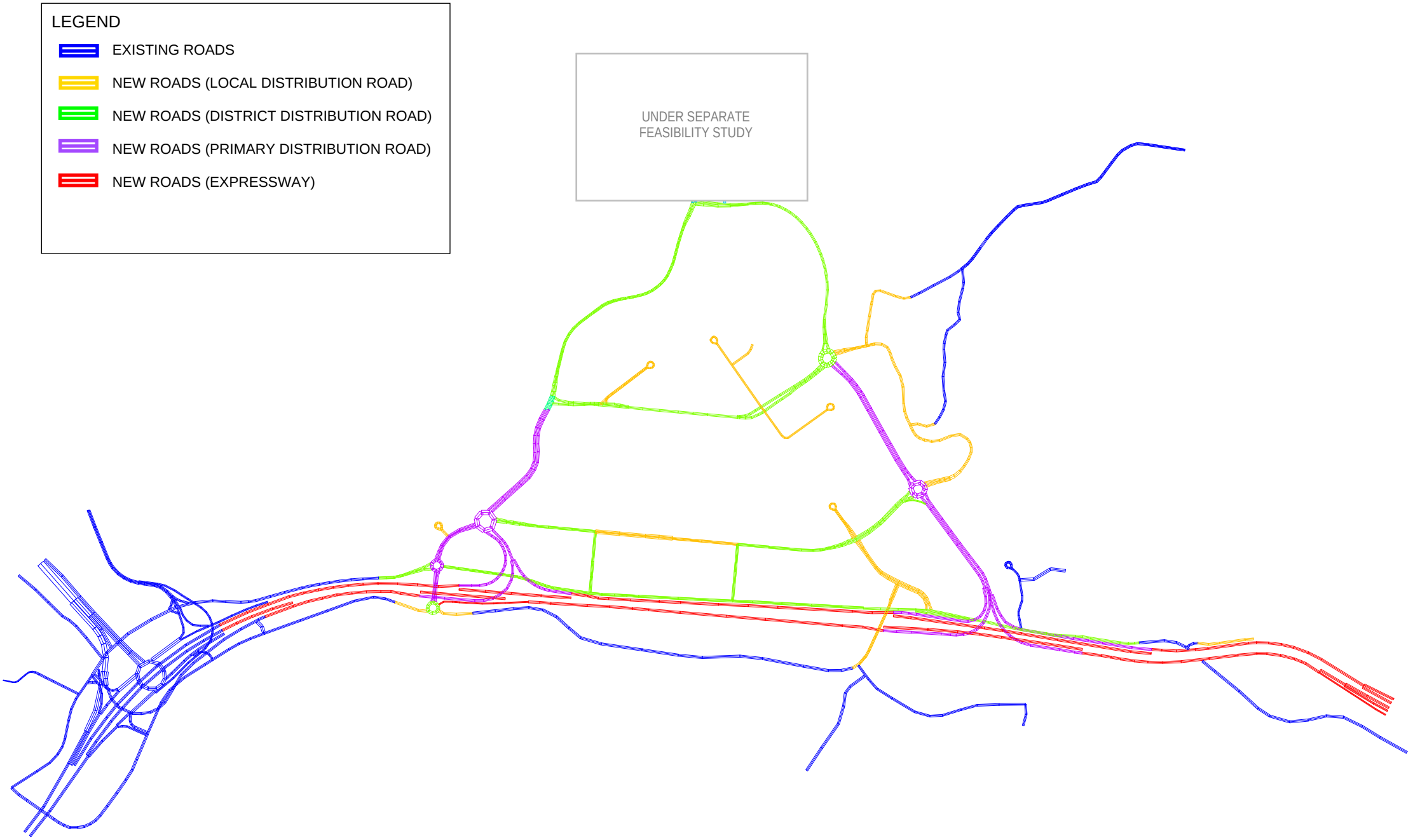
UNDER SEPARATE
FEASIBILITY STUDY


LEGEND
EXISTING ROADS
NEW ROADS (LOCAL DISTRIBUTION ROAD)
NEW ROADS (DISTRICT DISTRIBUTION ROAD)
NEW ROADS (PRIMARY DISTRIBUTION ROAD)
NEW ROADS (EXPRESSWAY)
UNDER SEPARATE
FEASIBILITY STUDY

Appendix 2.3
Details of Road Traffic Noise Impacts on NSRs (Mitigated Scenario) at Year 2046

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Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT								Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end 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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]			C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
							dB (A)													
R1001	1	11.6	KTN-1	75.7	33.4	0	60.3	49.2	35.3	62.8	0	64.8	64.8	65	N	-10.9	N	31.4	Y	N	N
R1002	1	11.6	KTN-1	73.3	49.4	0	53.6	43.8	0	54.7	0	57.4	58.0	65	N	-15.3	N	8.6	Y	N	N
R1003	1	11.6	KTN-1	73.3	50.2	0	58.2	47.2	36.7	62.9	0	64.2	64.4	65	N	-8.9	N	14.2	Y	N	N
R1004	1	12.7	KTN-1	76.9	36.3	0	56.5	47.6	31.9	59.4	0	61.4	61.4	65	N	-15.5	N	25.1	Y	N	N
R1004	2	16.7	KTN-1	77.8	37.9	0	58.1	48.6	33.2	60.3	0	62.5	62.5	65	N	-15.3	N	24.6	Y	N	N
R1004	3	20.7	KTN-1	78.8	39.4	0	60.2	49.5	34.9	61.4	0	64	64.0	65	N	-14.8	N	24.6	Y	N	N
R1005	1	18.1	KTN-1	67.6	60.5	0	55.1	0	15.2	49.4	0	56.1	61.9	70	N	-5.7	N	1.4	Y	N	N
R1005	2	21.1	KTN-1	67.6	60.5	0	55.6	0	15.2	49.5	0	56.5	62.0	70	N	-5.6	N	1.5	Y	N	N
R1005	3	24.1	KTN-1	67.6	60.5	0	55.8	0	15.3	49.6	0	56.7	62.0	70	N	-5.6	N	1.5	Y	N	N
R1021	1	10.9	KTN-2	83.8	39.9	0	56.6	45.4	17.1	57.9	0	60.5	60.5	65	N	-23.3	N	20.6	Y	N	N
R1022	1	10.9	KTN-2	77.6	51.6	0	54	43.7	19.8	55.3	0	57.9	58.8	65	N	-18.8	N	7.2	Y	N	N
R1023	1	10.9	KTN-2	79.7	48.8	0	54.1	45	0	56.3	0	58.5	59.0	65	N	-20.7	N	10.2	Y	N	N
R1024	1	8.1	KTN-2	78.6	54	0	54.7	46.8	19.8	60.6	0	61.8	62.4	70	N	-16.2	N	8.4	Y	N	N
R1024	2	11.1	KTN-2	78.6	54	0	55.7	47.4	20.7	60.9	0	62.2	62.8	70	N	-15.8	N	8.8	Y	N	N
R1024	3	14.1	KTN-2	78.6	54	0	56.8	48	21.8	61.2	0	62.7	63.3	70	N	-15.3	N	9.3	Y	N	N
R1024	4	17.1	KTN-2	78.7	54.1	0	58.1	48.7	22.9	61.5	0	63.3	63.8	70	N	-14.9	N	9.7	Y	N	N
R1025	1	13.9	KTN-2	73.1	54.4	0	54.6	45.4	33.8	59.6	0	60.9	61.8	70	N	-11.3	N	7.4	Y	N	N
R1025	2	16.9	KTN-2	73.3	54.4	0	55.3	45.7	34.8	59.7	0	61.2	62.0	70	N	-11.3	N	7.6	Y	N	N
R1025	3	19.9	KTN-2	73.6	54.4	0	56.2	46.1	36.2	59.8	0	61.5	62.3	70	N	-11.3	N	7.9	Y	N	N
R1025	4	22.9	KTN-2	74.1	54.3	0	57.1	46.4	37.5	59.9	0	61.9	62.6	70	N	-11.5	N	8.3	Y	N	N
R1026	1	13.9	KTN-2	68.1	57.4	0	53.4	42.7	34.6	57.6	0	59.1	61.4	70	N	-6.7	N	4.0	Y	N	N
R1026	2	16.9	KTN-2	68.3	57.5	0	54.6	43	35.6	57.7	0	59.5	61.6	70	N	-6.7	N	4.1	Y	N	N
R1026	3	19.9	KTN-2	68.5	57.5	0	55.6	43.4	36.9	57.7	0	59.9	61.9	70	N	-6.6	N	4.4	Y	N	N
R1026	4	22.9	KTN-2	68.9	57.4	0	56.6	43.8	38.2	57.8	0	60.4	62.2	70	N	-6.7	N	4.8	Y	N	N
R1027	1	11.9	KTN-2	77.3	37.1	0	55.7	47	21.3	60	0	61.5	61.5	65	N	-15.8	N	24.4	Y	N	N
R1028	1	8	KTN-2	80.9	57.9	0	51.1	45.1	25.1	63.1	0	63.4	64.5	70	N	-16.4	N	6.6	Y	N	N
R1028	2	11	KTN-2	80.9	58	0	52.6	45.9	26	63.7	0	64.1	65.1	70	N	-15.8	N	7.1	Y	N	N
R1028	3	14	KTN-2	80.9	58	0	54.7	46.7	26.9	64.4	0	64.9	65.7	70	N	-15.2	N	7.7	Y	N	N
R1029	1	9.2	KTN-2	77.6	58.4	0	51.3	44	25.4	59.8	0	60.5	62.6	70	N	-15.0	N	4.2	Y	N	N
R1029	2	12.2	KTN-2	77.6	58.4	0	52.5	44.5	25.9	60.2	0	61	62.9	70	N	-14.7	N	4.5	Y	N	N
R1029	3	15.2	KTN-2	77.6	58.3	0	53.8	45	26.4	60.6	0	61.6	63.3	70	N	-14.3	N	5.0	Y	N	N
R1030	1	10.2	KTN-2	77.5	58.1	0	52.9	45.7	23.9	61.3	0	62	63.5	70	N	-14.0	N	5.4	Y	N	N
R1030	2	13.2	KTN-2	77.5	58.1	0	54	46.2	24.6	61.6	0	62.4	63.8	70	N	-13.7	N	5.7	Y	N	N
R1030	3	16.2	KTN-2	77.5	58.2	0	55.4	46.7	25.3	61.9	0	62.9	64.1	70	N	-13.4	N	5.9	Y	N	N
R1031	1	10.1	KTN-2	79.1	48.8	0	54.7	44.1	17.6	55.2	0	58.2	58.6	65	N	-20.5	N	9.8	Y	N	N
R1031	2	13.4	KTN-2	79.2	49.3	0	56.5	45.8	19.5	56.9	0	59.9	60.3	65	N	-18.9	N	11.0	Y	N	N
R1032	1	10.1	KTN-2	83.8	35.6	0	57.1	47	16.8	58.4	0	61	61.0	65	N	-22.8	N	25.4	Y	N	N
R1032	2	13.4	KTN-2	83.8	37.7	0	58.8	48.9	18.8	60	0	62.6	62.6	65	N	-21.2	N	24.9	Y	N	N
R1033	1	9.9	KTN-2	84.2	41.7	0	57	47.8	19.6	62.3	0	63.5	63.6	65	N	-20.6	N	21.9	Y	N	N
R1033	2	13.2	KTN-2	84.2	46.4	0	59.1	50.1	22.4	63.6	0	65.1	65.1	65	N	-19.1	N	18.7	Y	N	N
R1034	1	10.1	KTN-2	80.9	42	0	51	46.2	18.8	59.1	0	59.9	60.0	65	N	-20.9	N	18.0	Y	N	N
R1034	2	13.4	KTN-2	80.9	46.8	0	53.4	47.9	21.2	60.7	0	61.6	61.8	65	N	-19.1	N	15.0	Y	N	N
R1041	1	17.1	KTN-4	68.3	59.3	0	26.8	22.8	57.4	61.7	0	63.1	64.6	70	N	-3.7	N	5.3	Y	N	N
R1041	2	20.4	KTN-4	68.4	59.4	0	26.8	24.1	57.6	62	0	63.3	64.8	70	N	-3.6	N	5.4	Y	N	N
R1042	1	17.1	KTN-4	65.6	59.7	0	0	22	47.2	0	0	47.2	59.9	70	N	-5.7	N	0.2	N	N	N
R1042	2	20.4	KTN-4	65.5	59.7	0	0	23.6	47.2	0	0	47.2	59.9	70	N	-5.6	N	0.2	N	N	N
R1043	1	15.3	KTN-4	65.1	59.4	0	10.6	0	51.5	0	0	51.5	60.0	70	N	-5.1	N	0.6	N	N	N
R1043	2	18.6	KTN-4	65	59.3	0	10.6	0	51.5	0	0	51.5	60.0	70	N	-5.0	N	0.7	N	N	N
R1043	3	21.9	KTN-4	65	59.4	0	10.6	0	51.5	0	0	51.5	60.0	70	N	-5.0	N	0.6	N	N	N
R1061	1	16.4	KTN-7	75	31.6	0	32.8	49.8	10.4	61.6	0	61.9	61.9	65	N	-13.1	N	30.3	Y	N	N
R1061	2	21.4	KTN-7	75.1	33.9	0	35.6	52.5	13.5	63.6	0	63.9	63.9	65	N	-11.2	N	30.0	Y	N	N
R1085	1	12.8	KTN-9	58.4	52.9	0	20.7	39.3	24.8	54.3	0	54.5	56.8	70	N	-1.6	N	3.9	Y	N	N
R1085	2	16.8	KTN-9	61	53.8	0	24.5	43.4	27.4	58.3	0	58.4	59.7	70	N	-1.3	N	5.9	Y	N	N
R1085	3	20.8	KTN-9	67.4	54.7	0	33.5	52	35.6	66.1	0	66.2	66.5	70	N	-0.9	N	11.8	Y	N	N
R1086	1	12.8	KTN-9	59.5	32	0	18.2	43.4	26.7	58.5	0	58.6	58.6	70	N	-0.9	N	26.6	Y	N	N
R1086	2	16.8	KTN-9	63.3	33.1	0	21	47.1	28.9	62.4	0	62.5	62.6	70	N	-0.7	N	29.5	Y	N	N
R1086	3	20.8	KTN-9	68.7	34.1	0	25.8	51.6	33.8	68.3	0	68.4	68.4	70	N	-0.3	N	34.3	Y	N	N
R1087	1	12.8	KTN-9	56.9	48.9	0	13.7	39.8	22.3	56.5	0	56.6	57.3	70	N	0.4	N	8.4	Y	N	N
R1087	2	16.8	KTN-9	59.9	50.3	0	17.9	42.9	26.6	59.9	0	60	60.4	70	N	0.5	N	10.1	Y	N	N
R1087	3	20.8	KTN-9	64.7	52.5	0	26.6	47.1	33.4	65	0	65.1	65.3	70	N	0.6	N	12.8	Y	N	N
R1088	1	12.8	KTN-9	56.2	43.7	0	0	39.6	22.3	55.5	0	55.6	55.9	70	N	-0.3	N	12.2	Y	N	N
R1088	2	16.8	KTN-9	60	47	0	0	43.4	22.7	59.5	0	59.6	59.8	70	N	-0.2	N	12.8	Y	N	N
R1088	3	20.8	KTN-9	66	51.4	0	0	48.5	22.9	66	0	66	66.2	70	N	0.2	N	14.8	Y	N	N
R1089	1	12.8	KTN-9	57.4	12.9	0	26.1	38.4	56.1	56.3	0	59.3	59.3	70	N	1.9	Y	46.4	Y	N	N
R1089	2	16.8	KTN-9	60.9	13.2	0	30.6	41.9	56.4	60.2	0	61.8	61.8	70	N	0.9	N	48.6	Y	N	N
R1089	3	20.8	KTN-9	69.5	13.3	0	40	47.9	57.3	69.2	0	69.5	69.5	70	N	0.0	N	56.2	Y	N	N
R1090	1	12.8	KTN-9	64.5	58.4	0	37.1	37.6	61.3	55.8	0	62.4	63.9	70	N	-0.6	N	5.5	Y	N	N
R1090	2	16.8	KTN-9	67	59	0	40.3	40.6	61.8	59.1	0	63.7	65.0	70	N	-2.0	N	6.0	Y	N	N
R1090	3	20.8	KTN-9	69.6	59.4	0	43.8	44	62.5	63.7	0	66.2	67.0	70	N	-2.6	N	7.6	Y	N	N
R1102	1	16.8	KTN-11	73.9	59.8	0	51	46.6	32.9	58.5	0	59.4	62.6	70	N	-11.3	N	2.8	Y	N	N
R1102	2	19.8	KTN-11	76.1	65	0	55.8	48.5	43.6	60.2	0	61.8	66.7	70	N	-9.4	N	1.7	Y	N	N
R1102	3	22.8	KTN-11	79.1	68.8	0	59.1	50.8	45.2	61.5	0	63.7	70.0	70	N	-9.1	N	1.2	Y	N	N
R1103	1	16.8	KTN-11	82.8	48.9	0	52.6	49.1	35.3	61.8	0	62.5	62.6	70	N	-20.2	N	13.7	Y	N	N
R1103	2	19.8	KTN-11	82.8	57.7	0	55.1	51.1	43.4	63.2	0	64.1	65.0	70	N	-17.8	N	7.3	Y	N	N
R1103	3	22.8	KTN-11	82.7	61.2	0	58.9	53.6	45.5	64.6	0	65.9	67.2	70	N	-15.5	N	6.0	Y	N	N
R1104	1	16.6	KTN-11	83.1	54.4	0	48.1	49.3	32.6	59.9	0	60.6	61.5	70	N	-21.6	N	7.1	Y	N	N
R1104	2	19.6	KTN-11	83	54.3	0	50.5	50.7	34.9	61.1	0	61.8	62.5	70	N	-20.5	N	8.2	Y	N	N
R1104	3	22.6	KTN-11	82.9	54.5	0	53.1	52.5	37.5	62.5	0	63.4	63.9	70	N	-19.0	N	9.4	Y	N	N
R1105	1	16.9	KTN-11	83.2	48.8	0	44.9	49.5	35.6	62.3	0	62.6	62.8	70	N	-20.4	N	14.0	Y	N	N
R1105	2	19.9	KTN-11	83.2	51.9	0	47.1	51.3	40.2	67.6	0	67.7	67.8	70	N	-15.4	N	15.9	Y	N	N
R1105	3	22.9	KTN-11	-	52.4	0	48.6	53.8	42.7	69.1	0	69.3	69.4	70	N	-	-	17.0	Y	N	N
R1106	1	16.9	KTN-11	77.2	50.1	0	19	48.4	35.2	60.5	0	60.8	61.2	70	N	-16.0	N	11.1	Y	N	N
R1106	2	19.9	KTN-11	78.9	54.8	0	22.3	51.2	39.5	66.8	0	66.9	67.2	70	N	-11.7	N	12.4	Y	N	N
R1106	3	22.9	KTN-11	-	56.6	0	26	53.9	42	68.5	0	68.7	68.9	70	N	-	-	12.3	Y	N	N
R1107	1	16.9	KTN-11	67.8	48.7	0	15.2	45.7	0.7	56.7	0	57	57.6	70	N	-10.2	N	8.9	Y	N	N
R1107	2	19.9	KTN-11	72.9	54.8	0	21.8	49.9	0.7	63.6	0	63.8	64.3	70	N	-8.6	N	9.5	Y	N	N
R1107	3	22.9	KTN-11	76	58.7	0	23.8	52.3	0.8	65.5	0	65.7	66.5	70	N	-9.5	N	7.8	Y	N	N
R1121	1	21.5	KTN-12	75.7	67	0	61.8	52	51.7	63.7	0	66.2	69.6	70	N	-6.1	N	2.6	Y	N	N
R1121	2	24.5	KTN-12	76.2	67	0	63.6	53.3	51.6	65	0	67.6	70.3	70	N	-5.9	N	3.3	Y	N	N
R1161	1	34.4	KTN-20	33.5	0	0	14.8	24.2	0	0	0	24.7	24.7	70	N	-8.8	N	24.7	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)									C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
R1161	2	37.4	KTN-20	34.3	0	0	14.8	25.1	0	0	0	25.5	25.5	70	N	-8.8	N	25.5	Y	N	N
R1161	3	40.4	KTN-20	35.2	0	0	14.8	26.1	0	0	0	26.4	26.4	70	N	-8.8	N	26.4	Y	N	N
R1162	1	34.4	KTN-20	0	0	0	14.7	24.7	0	0	0	25.1	25.1	70	N	25.1	Y	25.1	Y	N	N
R1162	2	37.4	KTN-20	0	0	0	14.7	25.6	0	0	0	26	26.0	70	N	26.0	Y	26.0	Y	N	N
R1162	3	40.4	KTN-20	0	0	0	14.7	26.7	0	0	0	26.9	26.9	70	N	26.9	Y	26.9	Y	N	N
R1181	1	7.5	KTN-32	76.2	53	0	54.9	43.9	56	63.2	0	64.5	64.8	70	N	-11.4	N	11.8	Y	N	N
R1181	2	10.5	KTN-32	77.5	53.2	0	55	43.9	55.9	64.1	0	65.2	65.5	70	N	-12.0	N	12.3	Y	N	N
R1181	3	13.5	KTN-32	78.6	53.3	0	55.1	43.9	55.7	65.1	0	65.9	66.2	70	N	-12.4	N	12.9	Y	N	N
R1182	1	10.1	KTN-32	73.3	55.7	0	55.5	47.4	56	64.3	0	65.4	65.9	70	N	-7.4	N	10.2	Y	N	N
R1182	2	13.1	KTN-32	73.9	55.8	0	55.6	47.4	56	64.9	0	65.9	66.3	70	N	-7.6	N	10.5	Y	N	N
R1182	3	16.1	KTN-32	74.3	55.8	0	55.7	47.4	56	65.5	0	66.4	66.8	70	N	-7.5	N	11.0	Y	N	N
R1183	1	7.6	KTN-32	64.7	36.7	0	40.5	29.6	34.8	58.5	0	58.6	58.6	70	N	-6.1	N	21.9	Y	N	N
R1183	2	10.6	KTN-32	69.6	41.4	0	48.4	36.1	39.7	64.6	0	64.8	64.8	70	N	-4.8	N	23.4	Y	N	N
R1183	3	13.6	KTN-32	72.9	46	0	52	40.4	46.4	65.7	0	65.9	66.0	70	N	-6.9	N	20.0	Y	N	N
R1184	1	8.2	KTN-32	74.6	42.5	0	42.5	0	32.1	66	0	66.1	66.1	70	N	-8.5	N	23.6	Y	N	N
R1184	2	11.2	KTN-32	75.8	46.8	0	48.6	0	39	66.5	0	66.5	66.6	70	N	-9.2	N	19.8	Y	N	N
R1184	3	14.2	KTN-32	76.6	48.2	0	48.9	0	39.7	66.8	0	66.9	66.9	70	N	-9.7	N	18.7	Y	N	N
R1185	1	8.2	KTN-32	78.1	41.5	0	0	0	0	63.7	0	63.7	63.7	70	N	-14.4	N	22.2	Y	N	N
R1185	2	11.2	KTN-32	80.1	44.1	0	0	0	0	65.2	0	65.2	65.2	70	N	-14.9	N	21.1	Y	N	N
R1185	3	14.2	KTN-32	80.9	47.2	0	0	0	0	67.1	0	67.1	67.1	70	N	-13.8	N	19.9	Y	N	N
R1186	1	8.4	KTN-32	75.1	57.4	0	56.5	45.8	60.8	65.2	0	66.9	67.4	70	N	-7.7	N	10.0	Y	N	N
R1186	2	11.4	KTN-32	75.8	57.5	0	56.6	45.9	60.8	65.8	0	67.4	67.8	70	N	-8.0	N	10.3	Y	N	N
R1186	3	14.4	KTN-32	76.6	57.5	0	56.7	45.9	60.7	66.4	0	67.8	68.2	70	N	-8.4	N	10.7	Y	N	N
R1281	1	19.8	KTN-48	81.9	43.5	0	31.3	32.6	37.4	60.4	0	60.4	60.5	70	N	-21.4	N	17.0	Y	N	N
R1281	2	22.8	KTN-48	81.9	46.1	0	34.6	35.7	38.2	62.1	0	62.1	62.2	70	N	-19.7	N	16.1	Y	N	N
R1281	3	25.8	KTN-48	81.8	48.9	0	37.7	39	39	63.8	0	63.8	63.9	70	N	-17.9	N	15.0	Y	N	N
R1281	4	28.8	KTN-48	81.7	52.4	0	41.5	42.8	39.9	65.9	0	65.9	66.1	70	N	-15.6	N	13.7	Y	N	N
R1282	1	19.8	KTN-48	82.3	63.9	0	38.3	32.8	37.5	65.2	0	65.3	67.6	70	N	-14.7	N	3.7	Y	N	N
R1282	2	22.8	KTN-48	82.2	63.7	0	41.7	35.7	38.5	66.3	0	66.3	68.2	70	N	-14.0	N	4.5	Y	N	N
R1282	3	25.8	KTN-48	82.1	63.5	0	44.8	39	39.4	67.7	0	67.8	69.1	70	N	-13.0	N	5.6	Y	N	N
R1282	4	28.8	KTN-48	82	63.5	0	48.5	42.6	40.5	69.4	0	69.5	70.4	70	N	-11.6	N	6.9	Y	N	N
R1284	1	19.8	KTN-48	82.2	54.6	0	0	0	36.1	58	0	58	59.6	70	N	-22.6	N	5.0	Y	N	N
R1284	2	22.8	KTN-48	82.1	54.7	0	0	0	36.7	59.9	0	59.9	61.0	70	N	-21.1	N	6.3	Y	N	N
R1284	3	25.8	KTN-48	81.9	55	0	0	0	37.3	61.8	0	61.8	62.6	70	N	-19.3	N	7.6	Y	N	N
R1284	4	28.8	KTN-48	81.7	55.7	0	0	0	37.8	64.2	0	64.2	64.8	70	N	-16.9	N	9.1	Y	N	N
R1285	1	19.8	KTN-48	83.5	51.6	0	0	0	36.6	60.4	0	60.4	60.9	70	N	-22.6	N	9.3	Y	N	N
R1285	2	22.8	KTN-48	83.2	51.9	0	0	0	37.1	62.7	0	62.7	63.0	70	N	-20.2	N	11.1	Y	N	N
R1285	3	25.8	KTN-48	82.9	52.6	0	0	0	37.8	65.4	0	65.4	65.7	70	N	-17.2	N	13.1	Y	N	N
R1285	4	28.8	KTN-48	83.4	53.8	0	0	0	38.3	68	0	68	68.1	70	N	-15.3	N	14.3	Y	N	N
R1286	1	19.8	KTN-48	79.2	63.1	0	0	0	0	66	0	66	67.8	70	N	-11.4	N	4.7	Y	N	N
R1286	2	22.8	KTN-48	79.1	63.2	0	0	0	0	67.2	0	67.2	68.6	70	N	-10.5	N	5.4	Y	N	N
R1286	3	25.8	KTN-48	79	63.2	0	0	0	0	68.4	0	68.4	69.5	70	N	-9.5	N	6.3	Y	N	N
R1286	4	28.8	KTN-48	78.9	63.3	0	0	0	0	69.5	0	69.5	70.4	70	N	-8.5	N	7.1	Y	N	N
R1287	1	10.4	KTN-48	83.7	42.6	0	0	0	24.3	62.7	0	62.7	62.8	70	N	-20.9	N	20.2	Y	N	N
R1287	2	13.4	KTN-48	83.7	43.8	0	0	0	24.7	64.6	0	64.6	64.7	70	N	-19.0	N	20.9	Y	N	N
R1287	3	16.4	KTN-48	83.6	45.3	0	0	0	25.1	66.7	0	66.7	66.7	70	N	-16.9	N	21.4	Y	N	N
R1287	4	19.4	KTN-48	83.4	47	0	0	0	25.5	68.9	0	68.9	68.9	70	N	-14.5	N	21.9	Y	N	N
R1288	1	11.8	KTN-48	74.6	30.3	0	0	0	29.9	57.1	0	57.1	57.1	70	N	-17.5	N	26.8	Y	N	N
R1288	2	14.8	KTN-48	76.1	31	0	0	0	30.5	58.2	0	58.2	58.2	70	N	-17.9	N	27.2	Y	N	N
R1288	3	17.8	KTN-48	78.1	32.1	0	0	0	31.1	59.3	0	59.3	59.3	70	N	-18.8	N	27.2	Y	N	N
R1288	4	20.8	KTN-48	79.3	33.5	0	0	0	31.8	60.2	0	60.2	60.2	70	N	-19.1	N	26.7	Y	N	N
R1289	1	11.2	KTN-48	79.7	14.9	0	0	0	28.2	67.1	0	67.1	67.1	70	N	-12.6	N	52.2	Y	N	N
R1289	2	14.2	KTN-48	80.2	17.6	0	0	0	28.6	67.4	0	67.4	67.4	70	N	-12.8	N	49.8	Y	N	N
R1289	3	17.2	KTN-48	80.5	20.1	0	0	0	29.1	67.6	0	67.6	67.6	70	N	-12.9	N	47.5	Y	N	N
R1289	4	20.2	KTN-48	80.7	23.5	0	0	0	29.5	67.9	0	67.9	67.9	70	N	-12.8	N	44.4	Y	N	N
R1290	1	10.4	KTN-48	80.4	0	0	0	0	24.6	69.9	0	69.9	69.9	70	N	-10.5	N	69.9	Y	N	N
R1290	2	13.4	KTN-48	80.6	0	0	0	0	25	70.1	0	70.1	70.1	70	N	-10.5	N	70.1	Y	N	N
R1290	3	16.4	KTN-48	80.7	0	0	0	0	25.3	70.3	0	70.3	70.3	70	N	-10.4	N	70.3	Y	N	N
R1290	4	19.4	KTN-48	80.7	0	0	0	0	25.6	70.4	0	70.4	70.4	70	N	-10.3	N	70.4	Y	N	N
R1301	1	10.2	KTN-49	71	56.1	0	51.8	55.7	45.9	60.8	0	62.4	63.3	70	N	-7.7	N	7.2	Y	N	N
R1301	2	13.2	KTN-49	71.1	56.4	0	52.3	56	48.4	61.5	0	63.1	64.0	70	N	-7.1	N	7.6	Y	N	N
R1506	1	15.1	H1-1	62.1	0	56.1	21	69.9	46.9	0	0	69.9	70.1	70	N	8.0	Y	14.0	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT								Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end 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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]			C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
							dB (A)													
R1521	1	6.6	KTN-P6	68	68.2	0	0	0	0	0	0	0	68.2	70	N	0.2	N	0.0	N	N	N
R1521	2	9.6	KTN-P6	68	68.2	0	0	0	0	0	0	0	68.2	70	N	0.2	N	0.0	N	N	N
R1521	3	12.6	KTN-P6	68	68.3	0	0	0	0	0	0	0	68.3	70	N	0.3	N	0.0	N	N	N
R1521	4	15.6	KTN-P6	68.1	68.3	0	0	0	0	0	0	0	68.3	70	N	0.2	N	0.0	N	N	N
R1523	1	6.6	KTN-P6	61.2	62.7	0	0	0	0	0	0	0	62.7	70	N	1.5	Y	0.0	N	N	N
R1523	2	9.6	KTN-P6	61.2	62.7	0	0	0	0	0	0	0	62.7	70	N	1.5	Y	0.0	N	N	N
R1523	3	12.6	KTN-P6	61.2	62.7	0	0	0	0	0	0	0	62.7	70	N	1.5	Y	0.0	N	N	N
R1523	4	15.6	KTN-P6	61.2	62.7	0	0	0	0	0	0	0	62.7	70	N	1.5	Y	0.0	N	N	N
R1524	1	6.6	KTN-P6	68.2	66.8	0	0	0	0	50	0	50	66.9	70	N	-1.3	N	0.1	N	N	N
R1524	2	9.6	KTN-P6	68.2	66.9	0	0	0	0	50.3	0	50.3	66.9	70	N	-1.3	N	0.0	N	N	N
R1524	3	12.6	KTN-P6	68.3	66.9	0	0	0	0	50.6	0	50.6	67.0	70	N	-1.3	N	0.1	N	N	N
R1524	4	15.6	KTN-P6	68.3	67	0	0	0	0	50.9	0	50.9	67.1	70	N	-1.2	N	0.1	N	N	N
R1525	1	4.7	KTN-P6	73.7	64.3	0	0	42.3	31.9	60.8	0	60.9	65.9	70	N	-7.8	N	1.6	Y	N	N
R1525	2	7.7	KTN-P6	73.8	66.6	0	0	42.4	33.6	61.4	0	61.5	67.8	70	N	-6.0	N	1.2	Y	N	N
R1525	3	10.7	KTN-P6	73.9	68.3	0	0	42.5	34.5	62	0	62.1	69.2	70	N	-4.7	N	0.9	N	N	N
R1525	4	13.7	KTN-P6	74.1	69	0	0	42.5	35.2	62.5	0	62.5	69.9	70	N	-4.2	N	0.9	Y	N	N
R1526	1	4.7	KTN-P6	71.1	64.6	0	0	0	0	55.2	0	55.2	65.1	70	N	-6.0	N	0.5	N	N	N
R1526	2	7.7	KTN-P6	71.2	67	0	0	0	0	55.5	0	55.5	67.3	70	N	-3.9	N	0.3	N	N	N
R1526	3	10.7	KTN-P6	71.3	68.6	0	0	0	0	55.9	0	55.9	68.8	70	N	-2.5	N	0.2	N	N	N
R1526	4	13.7	KTN-P6	71.4	69.2	0	0	0	0	56.2	0	56.2	69.4	70	N	-2.0	N	0.2	N	N	N
R1527	1	4.7	KTN-P6	70.3	55	0	0	42.3	32	59.2	0	59.3	60.7	70	N	-9.6	N	5.7	Y	N	N
R1527	2	7.7	KTN-P6	70.4	55.8	0	0	42.4	33.7	59.9	0	60	61.4	70	N	-9.0	N	5.6	Y	N	N
R1527	3	10.7	KTN-P6	70.5	57.1	0	0	42.5	34.7	60.6	0	60.7	62.2	70	N	-8.3	N	5.1	Y	N	N
R1527	4	13.7	KTN-P6	70.7	57.9	0	0	42.5	35.3	61.1	0	61.2	62.8	70	N	-7.9	N	4.9	Y	N	N
R1681	1	12.9	KTN-50	78	65.1	0	37	41.8	0	65.7	0	65.7	68.4	70	N	-9.6	N	3.3	Y	N	N
R1681	2	16.9	KTN-50	78	65.2	0	41.8	44	0	66.9	0	67	69.2	70	N	-8.8	N	4.0	Y	N	N
R1682	1	14.5	KTN-50	75.7	64.6	0	37.4	41.4	48.2	67.5	0	67.5	69.3	70	N	-6.4	N	4.7	Y	N	N
R1682	2	18.5	KTN-50	75.8	65.3	0	37.8	42.8	48.2	67.6	0	67.7	69.6	70	N	-6.2	N	4.3	Y	N	N
R2001	1	11.9	C1-4	33.9	62.8	0	51	13.5	43.6	55.4	0	56.9	63.8	70	N	29.9	Y	1.0	Y	N	N
R2001	2	14.9	C1-4	33.8	62.7	0	51.4	13.6	43.6	55.6	0	57.2	63.8	70	N	30.0	Y	1.1	Y	N	N
R2001	3	17.9	C1-4	33.8	62.7	0	51.8	13.7	43.6	55.9	0	57.5	63.8	70	N	30.0	Y	1.1	Y	N	N
R2041	1	6.7	D1-9	34.7	64.6	0	0	0	0	0	0	0	64.6	70	N	29.9	Y	0.0	N	N	N
R2041	2	9.7	D1-9	34.7	64.6	0	0	0	0	0	0	0	64.6	70	N	29.9	Y	0.0	N	N	N
R2041	3	12.7	D1-9	34.7	64.6	0	0	0	0	0	0	0	64.6	70	N	29.9	Y	0.0	N	N	N
R2042	1	6.7	D1-9	45	49.2	0	52.2	45.1	57.8	0	0	59.1	59.5	70	N	14.5	Y	10.3	Y	N	N
R2042	2	9.7	D1-9	45.8	49.8	0	52.2	45.1	57.9	0	0	59.1	59.6	70	N	13.8	Y	9.8	Y	N	N
R2042	3	12.7	D1-9	46.5	50.5	0	52.2	45.1	57.9	0	0	59.1	59.7	70	N	13.2	Y	9.2	Y	N	N
R2043	1	6.7	D1-9	61.8	57	0	55.9	23.3	56.7	0	0	59.3	61.3	70	N	-0.5	N	4.3	Y	N	N
R2043	2	9.7	D1-9	61.9	66.1	0	56	23.3	56.9	0	0	59.5	67.0	70	N	5.1	Y	0.9	N	N	N
R2043	3	12.7	D1-9	61.5	68.3	0	56.1	23.4	57.1	0	0	59.6	68.8	70	N	7.3	Y	0.5	N	N	N
R2046	1	6.7	D1-9	58.5	59.4	0	0	25.2	28.4	0	0	30.1	59.5	70	N	1.0	Y	0.1	N	N	N
R2046	2	9.7	D1-9	58.9	60.1	0	0	27.4	29.8	0	0	31.8	60.1	70	N	1.2	Y	0.0	N	N	N
R2046	3	12.7	D1-9	59.2	61.3	0	0	29.7	31.1	0	0	33.5	61.3	70	N	2.1	Y	0.0	N	N	N
R2047	1	6.7	D1-9	49.8	69.6	0	0	24	47.1	0	0	47.1	69.7	70	N	19.9	Y	0.1	N	N	N
R2047	2	9.7	D1-9	49.8	70	0	0	24.6	47.1	0	0	47.1	70.1	70	N	20.3	Y	0.1	N	N	N
R2047	3	12.7	D1-9	49.8	70.3	0	0	25.4	47.1	0	0	47.1	70.4	70	N	20.6	Y	0.1	N	N	N
R2102	1	7.9	C1-4	73.8	53.1	0	56.6	52.6	41.7	58.1	0	61.1	61.8	70	N	-12.0	N	8.7	Y	N	N
R2102	2	10.6	C1-4	74.4	53.1	0	57.5	52.8	41.7	58.8	0	61.9	62.4	70	N	-12.0	N	9.3	Y	N	N
R2102	3	13.3	C1-4	74.9	53.2	0	58.8	53	41.7	59.5	0	62.7	63.2	70	N	-11.7	N	10.0	Y	N	N
R2103	1	7.9	C1-4	76	56.3	0	64.3	58.5	43.8	64.5	0	67.9	68.2	70	N	-7.8	N	11.9	Y	N	N
R2103	2	10.6	C1-4	76.5	56.3	0	64.7	58.6	43.8	64.7	0	68.2	68.5	70	N	-8.0	N	12.2	Y	N	N
R2103	3	13.3	C1-4	76.9	56.3	0	65.2	58.6	43.7	64.9	0	68.5	68.8	70	N	-8.1	N	12.5	Y	N	N
R2141	1	22.2	A3-7	51	0	17.9	0	53.5	60.1	0	0	60.9	60.9	70	N	9.9	Y	43.0	Y	N	N
R2141	2	25.2	A3-7	51	0	18.5	0	53.6	60.1	0	0	60.9	60.9	70	N	9.9	Y	42.4	Y	N	N
R2141	3	28.2	A3-7	51	0	18.9	0	53.6	60	0	0	60.9	60.9	70	N	9.9	Y	42.0	Y	N	N
R3481	1	8.7	D1-5	-	42.3	0	56	42.4	66.2	0	0	66.7	66.7	70	N	-	-	24.4	Y	N	N
R3481	2	12.7	D1-5	-	42.9	0	56.3	42.4	66.2	0	0	66.6	66.6	70	N	-	-	23.7	Y	N	N
R3481	3	16.7	D1-5	-	43.9	0	56.7	42.4	66	0	0	66.5	66.5	70	N	-	-	22.6	Y	N	N
N2046	1	11.7	D1-9	62.1	67	0	0	24.3	34.5	0	0	34.9	67.0	70	N	4.9	Y	0.0	N	N	N
N2046	2	14.4	D1-9	61.8	69	0	0	25	35.2	0	0	35.6	69.0	70	N	7.2	Y	0.0	N	N	N
N2046	3	17.1	D1-9	61.4	68.8	0	0	25.8	35.9	0	0	36.3	68.8	70	N	7.4	Y	0.0	N	N	N
N2047	1	13.7	D1-9	55.1	68	0	0	24.1	44.9	0	0	44.9	68.1	70	N	13.0	Y	0.1	N	N	N
N2047	2	16.4	D1-9	55	68	0	0	24.8	44.9	0	0	44.9	68.0	70	N	13.0	Y	0.0	N	N	N
N2047	3	19.1	D1-9	54.9	67.9	0	0	25.4	44.9	0	0	44.9	67.9	70	N	13.0	Y	0.0	N	N	N
E0001	1	17	H1-1	59.7	0	62.4	13.7	68.5	43.8	0	0	68.5	69.4	70	N	9.7	Y	7.0	Y	N	N
E0001	2	18.5	H1-1	59.7	0	62.4	13.7	69.4	43.8	0	0	69.4	70.2	70	N	10.5	Y	7.8	Y	N	N
E0002	1	8.5	D1-6	61.9	40.8	0	58.6	14.8	60.1	0	0	62.4	62.5	70	N	0.6	N	21.7	Y	N	N
E0002	2	10.8	D1-6	62	51.2	0	59.2	14.8	64.2	0	0	65.4	65.5	70	N	3.5	Y	14.3	Y	N	N
E0003	1	9.2	D1-6	50	4	0	41.2	27.8	70.2	0	0	70.2	70.2	70	N	20.2	Y	66.2	Y	N	N
E0004	1	9.2	D1-6	49	16.4	0	40.8	27.2	64	0	0	64	64.0	70	N	15.0	Y	47.6	Y	N	N
E0005	1	9.2	D1-6	47.2	22.6	0	40.4	26.9	65.1	0	0	65.1	65.1	70	N	17.9	Y	42.5	Y	N	N
E0005	2	12.2	D1-6	47.2	33.8	0	40.7	26.8	69.2	0	0	69.2	69.2	70	N	22.0	Y	35.4	Y	N	N
E0006	1	9.2	D1-6	44.2	4.9	0	46.7	31.2	68.4	0	0	68.4	68.4	70	N	24.2	Y	63.5	Y	N	N
A1-2-1	1	32.5	A1-2	-	21.7	0	61	47.1	6.3	33.3	0	61.2	61.2	70	N	-	-	39.5	Y	N	N
A1-2-1	2	35.5	A1-2	-	21.7	0	66.5	52.9	7.7	34.4	0	66.7	66.7	70	N	-	-	45.0	Y	N	N
A1-2-1	3	38.5	A1-2	-	22.7	0	66.8	54.7	9.5	36	0	67.1	67.1	70	N	-	-	44.4	Y	N	N
A1-2-1	4	41.5	A1-2	-	24.4	0	66.8	55.5	11.4	38	0	67.1	67.1	70	N	-	-	42.7	Y	N	N
A1-2-1	5	44.5	A1-2	-	26.8	0	66.8	56.1	13.6	40.1	0	67.2	67.2	70	N	-	-	40.4	Y	N	N
A1-2-1	6	47.5	A1-2	-	29.7	0	66.8	56.4	16	42.7	0	67.2	67.2	70	N	-	-	37.5	Y	N	N
A1-2-1	7	50.5	A1-2	-	33.8	0	66.7	56.8	18.5	45.4	0	67.2	67.2	70	N	-	-	33.4	Y	N	N
A1-2-1	8	53.5	A1-2	-	38.3	0	66.7	57.1	20.8	47.5	0	67.2	67.2	70	N	-	-	28.9	Y	N	N
A1-2-1	9	56.5	A1-2	-	43.7	0	66.7	57.1	23.4	49.6	0	67.2	67.3	70	N	-	-	23.6	Y	N	N
A1-2-1	10	59.5	A1-2	-	47.4	0	66.7	57.2	26.7	51.9	0	67.3	67.3	70	N	-	-	19.9	Y	N	N
A1-2-1	11	62.5	A1-2	-	48.7	0	66.7	57.4	29.9	53.4	0	67.4	67.4	70	N	-	-	18.7	Y	N	N
A1-2-1	12	65.5	A1-2	-	49.1	0	66.8	57.5	31.8	54.2	0	67.5	67.6	70	N	-	-	18.5	Y	N	N
A1-2-1	13	68.5	A1-2	-	49.4	0	67.1	57.6	32.4	54.8	0	67.8	67.9	70	N	-	-	18.5	Y	N	N
A1-2-1	14	71.5	A1-2	-	49.6	0	67.7	57.7	32.7	55.4	0	68.3	68.4	70	N	-	-	18.8	Y	N	N
A1-2-1	15	74.5	A1-2	-	49.8	0	68.3	57.7	32.8	55.9	0	68.9	68.9	70	N	-	-	19.1	Y	N	N
A1-2-1	16	77.5	A1-2	-	49.9	0	68.7	57.8	32.9	56.3	0	69.3	69.3	70	N	-	-	19.4	Y	N	N
A1-2-1	17	80.5	A1-2	-	50.1	0	69	57.8	33	56.6	0	69.6	69.6	70	N	-	-	19.5	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance: C - A dB(A) [D]	Check Project Impact Significance: D ≥ 1dB(A)	Check Direct Mitigation: New Road Contribution dB(A) [E]	Check Direct Mitigation: New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	Check Direct Mitigation: New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)												
A1-2-1	18	83.5	A1-2	-	50.3	0	69.2	58	33.2	56.9	0	69.7	69.8	70	N	-	-	19.5	Y	N	N
A1-2-1	19	86.5	A1-2	-	50.5	0	69.3	58.1	33.2	57.2	0	69.9	69.9	70	N	-	-	19.4	Y	N	N
A1-2-1	20	89.5	A1-2	-	50.7	0	69.4	58.2	33.2	57.4	0	69.9	70.0	70	N	-	-	19.3	Y	N	N
A1-2-1	21	92.5	A1-2	-	50.9	0	69.4	58.3	33.3	57.6	0	70	70.0	70	N	-	-	19.1	Y	N	N
A1-2-1	22	95.5	A1-2	-	51.1	0	69.4	58.4	33.4	57.8	0	70	70.1	70	N	-	-	19.0	Y	N	N
A1-2-1	23	98.5	A1-2	-	51.1	0	69.4	58.5	33.4	58	0	70	70.1	70	N	-	-	19.0	Y	N	N
A1-2-1	24	101.5	A1-2	-	51.2	0	69.3	58.5	33.5	58.2	0	70	70.0	70	N	-	-	18.8	Y	N	N
A1-2-1	25	104.5	A1-2	-	51.2	0	69.3	58.6	33.6	58.4	0	70	70.0	70	N	-	-	18.8	Y	N	N
A1-2-1	26	107.5	A1-2	-	51.3	0	69.2	58.7	33.5	58.6	0	69.9	70.0	70	N	-	-	18.7	Y	N	N
A1-2-1	27	110.5	A1-2	-	51.3	0	69.2	58.8	33.6	58.7	0	69.9	70.0	70	N	-	-	18.7	Y	N	N
A1-2-1	28	113.5	A1-2	-	51.3	0	69.2	58.8	33.6	58.9	0	69.9	70.0	70	N	-	-	18.7	Y	N	N
A1-2-1	29	116.5	A1-2	-	51.3	0	69.1	59	33.7	58.9	0	69.9	69.9	70	N	-	-	18.6	Y	N	N
A1-2-1	30	119.5	A1-2	-	51.3	0	69	59	33.6	59.1	0	69.8	69.9	70	N	-	-	18.6	Y	N	N
A1-2-1	31	122.5	A1-2	-	51.3	0	69	59.2	33.6	59.2	0	69.8	69.9	70	N	-	-	18.6	Y	N	N
A1-2-1	32	125.5	A1-2	-	51.3	0	68.9	59.3	33.7	59.4	0	69.8	69.9	70	N	-	-	18.6	Y	N	N
A1-2-1	33	128.5	A1-2	-	51.2	0	68.9	59.4	33.7	59.5	0	69.8	69.8	70	N	-	-	18.6	Y	N	N
A1-2-1	34	131.5	A1-2	-	51.3	0	68.8	59.6	33.7	59.6	0	69.8	69.8	70	N	-	-	18.5	Y	N	N
A1-2-1	35	134.5	A1-2	-	51.3	0	68.8	59.7	33.7	59.8	0	69.7	69.8	70	N	-	-	18.5	Y	N	N
A1-2-1	36	137.5	A1-2	-	51.3	0	68.7	59.8	33.8	59.9	0	69.7	69.8	70	N	-	-	18.5	Y	N	N
A1-2-2	1	32.5	A1-2	-	21.7	0	57.9	47.6	6.5	34.4	0	58.3	58.3	70	N	-	-	36.6	Y	N	N
A1-2-2	2	35.5	A1-2	-	21.8	0	64.2	53.2	8	35.6	0	64.6	64.6	70	N	-	-	42.8	Y	N	N
A1-2-2	3	38.5	A1-2	-	22.9	0	65	54.6	9.6	37.3	0	65.4	65.4	70	N	-	-	42.5	Y	N	N
A1-2-2	4	41.5	A1-2	-	24.6	0	65.1	55.5	11.6	39.2	0	65.6	65.6	70	N	-	-	41.0	Y	N	N
A1-2-2	5	44.5	A1-2	-	26.9	0	65.1	56.2	13.6	41.4	0	65.6	65.6	70	N	-	-	38.7	Y	N	N
A1-2-2	6	47.5	A1-2	-	29.9	0	65.1	56.6	16.1	43.9	0	65.7	65.7	70	N	-	-	35.8	Y	N	N
A1-2-2	7	50.5	A1-2	-	33.9	0	65.1	57	18.4	46.6	0	65.8	65.8	70	N	-	-	31.9	Y	N	N
A1-2-2	8	53.5	A1-2	-	38.3	0	65.1	57.3	20.5	48.5	0	65.9	65.9	70	N	-	-	27.6	Y	N	N
A1-2-2	9	56.5	A1-2	-	43.7	0	65.1	57.4	22.9	50.6	0	65.9	65.9	70	N	-	-	22.2	Y	N	N
A1-2-2	10	59.5	A1-2	-	47.6	0	65.1	57.4	25.9	52.9	0	66	66.1	70	N	-	-	18.5	Y	N	N
A1-2-2	11	62.5	A1-2	-	48.6	0	65.2	57.5	29.4	54.6	0	66.2	66.3	70	N	-	-	17.7	Y	N	N
A1-2-2	12	65.5	A1-2	-	49.2	0	65.4	57.6	31.5	55.4	0	66.4	66.5	70	N	-	-	17.3	Y	N	N
A1-2-2	13	68.5	A1-2	-	49.4	0	65.7	57.7	32.3	55.9	0	66.8	66.8	70	N	-	-	17.4	Y	N	N
A1-2-2	14	71.5	A1-2	-	49.6	0	66.3	57.8	32.6	56.4	0	67.3	67.3	70	N	-	-	17.7	Y	N	N
A1-2-2	15	74.5	A1-2	-	49.8	0	67.1	57.9	32.8	56.9	0	67.9	68.0	70	N	-	-	18.2	Y	N	N
A1-2-2	16	77.5	A1-2	-	50	0	67.7	57.9	32.9	57.3	0	68.5	68.5	70	N	-	-	18.5	Y	N	N
A1-2-2	17	80.5	A1-2	-	50.1	0	68.2	58	33	57.7	0	68.9	69.0	70	N	-	-	18.9	Y	N	N
A1-2-2	18	83.5	A1-2	-	50.3	0	68.5	58.1	33.1	58	0	69.2	69.3	70	N	-	-	19.0	Y	N	N
A1-2-2	19	86.5	A1-2	-	50.6	0	68.7	58.2	33.2	58.2	0	69.4	69.4	70	N	-	-	18.8	Y	N	N
A1-2-2	20	89.5	A1-2	-	50.7	0	68.8	58.3	33.3	58.4	0	69.5	69.6	70	N	-	-	18.9	Y	N	N
A1-2-2	21	92.5	A1-2	-	50.9	0	68.8	58.5	33.3	58.6	0	69.6	69.6	70	N	-	-	18.7	Y	N	N
A1-2-2	22	95.5	A1-2	-	51	0	68.8	58.6	33.4	58.8	0	69.6	69.7	70	N	-	-	18.7	Y	N	N
A1-2-2	23	98.5	A1-2	-	51.1	0	68.8	58.7	33.5	59	0	69.6	69.7	70	N	-	-	18.6	Y	N	N
A1-2-2	24	101.5	A1-2	-	51.2	0	68.8	58.7	33.5	59.3	0	69.6	69.7	70	N	-	-	18.5	Y	N	N
A1-2-2	25	104.5	A1-2	-	51.3	0	68.8	58.8	33.5	59.4	0	69.6	69.7	70	N	-	-	18.4	Y	N	N
A1-2-2	26	107.5	A1-2	-	51.2	0	68.8	58.9	33.6	59.6	0	69.6	69.7	70	N	-	-	18.5	Y	N	N
A1-2-2	27	110.5	A1-2	-	51.3	0	68.7	58.9	33.6	59.8	0	69.6	69.7	70	N	-	-	18.4	Y	N	N
A1-2-2	28	113.5	A1-2	-	51.3	0	68.7	59	33.6	59.9	0	69.6	69.7	70	N	-	-	18.4	Y	N	N
A1-2-2	29	116.5	A1-2	-	51.3	0	68.7	59.1	33.7	60	0	69.6	69.7	70	N	-	-	18.4	Y	N	N
A1-2-2	30	119.5	A1-2	-	51.3	0	68.6	59.2	33.7	60.1	0	69.6	69.7	70	N	-	-	18.4	Y	N	N
A1-2-2	31	122.5	A1-2	-	51.3	0	68.6	59.3	33.6	60.3	0	69.6	69.6	70	N	-	-	18.3	Y	N	N
A1-2-2	32	125.5	A1-2	-	51.3	0	68.5	59.5	33.7	60.4	0	69.6	69.6	70	N	-	-	18.3	Y	N	N
A1-2-2	33	128.5	A1-2	-	51.3	0	68.4	59.6	33.7	60.5	0	69.5	69.6	70	N	-	-	18.3	Y	N	N
A1-2-2	34	131.5	A1-2	-	51.3	0	68.4	59.8	33.7	60.6	0	69.5	69.6	70	N	-	-	18.3	Y	N	N
A1-2-2	35	134.5	A1-2	-	51.2	0	68.3	59.8	33.7	60.8	0	69.5	69.6	70	N	-	-	18.4	Y	N	N
A1-2-2	36	137.5	A1-2	-	51.2	0	68.3	59.9	33.7	60.9	0	69.5	69.6	70	N	-	-	18.4	Y	N	N
A1-2-3	1	32.5	A1-2	-	21.1	0	56.6	49.2	6.7	34.5	0	57.4	57.4	70	N	-	-	36.3	Y	N	N
A1-2-3	2	35.5	A1-2	-	21.1	0	63	53.6	8.1	35.8	0	63.5	63.5	70	N	-	-	42.4	Y	N	N
A1-2-3	3	38.5	A1-2	-	22.5	0	64.3	54.6	9.8	37.4	0	64.8	64.8	70	N	-	-	42.3	Y	N	N
A1-2-3	4	41.5	A1-2	-	24.3	0	64.5	55.7	11.7	39.4	0	65.1	65.1	70	N	-	-	40.8	Y	N	N
A1-2-3	5	44.5	A1-2	-	26.6	0	64.6	56.4	13.8	41.5	0	65.2	65.2	70	N	-	-	38.6	Y	N	N
A1-2-3	6	47.5	A1-2	-	29.7	0	64.6	56.9	16.1	44	0	65.3	65.3	70	N	-	-	35.6	Y	N	N
A1-2-3	7	50.5	A1-2	-	33.6	0	64.6	57.3	18.1	46.6	0	65.4	65.4	70	N	-	-	31.8	Y	N	N
A1-2-3	8	53.5	A1-2	-	38	0	64.6	57.5	20.2	48.6	0	65.5	65.5	70	N	-	-	27.5	Y	N	N
A1-2-3	9	56.5	A1-2	-	43.5	0	64.6	57.6	22.5	50.6	0	65.6	65.6	70	N	-	-	22.1	Y	N	N
A1-2-3	10	59.5	A1-2	-	47.3	0	64.7	57.6	25.2	52.9	0	65.7	65.7	70	N	-	-	18.4	Y	N	N
A1-2-3	11	62.5	A1-2	-	48.3	0	64.8	57.7	28.5	54.8	0	65.9	66.0	70	N	-	-	17.7	Y	N	N
A1-2-3	12	65.5	A1-2	-	48.6	0	64.9	57.9	31.1	55.5	0	66.1	66.2	70	N	-	-	17.6	Y	N	N
A1-2-3	13	68.5	A1-2	-	48.9	0	65.3	57.9	32.2	56	0	66.4	66.5	70	N	-	-	17.6	Y	N	N
A1-2-3	14	71.5	A1-2	-	49.2	0	65.8	58	32.6	56.5	0	66.9	66.9	70	N	-	-	17.7	Y	N	N
A1-2-3	15	74.5	A1-2	-	49.4	0	66.5	58.1	32.8	56.9	0	67.5	67.5	70	N	-	-	18.1	Y	N	N
A1-2-3	16	77.5	A1-2	-	49.5	0	67.2	58.2	32.9	57.3	0	68.1	68.1	70	N	-	-	18.6	Y	N	N
A1-2-3	17	80.5	A1-2	-	49.7	0	67.7	58.3	33	57.7	0	68.6	68.6	70	N	-	-	18.9	Y	N	N
A1-2-3	18	83.5	A1-2	-	49.9	0	68.2	58.3	33.1	58	0	69	69.0	70	N	-	-	19.1	Y	N	N
A1-2-3	19	86.5	A1-2	-	50.1	0	68.4	58.4	33.1	58.3	0	69.2	69.3	70	N	-	-	19.2	Y	N	N
A1-2-3	20	89.5	A1-2	-	50.3	0	68.6	58.6	33.2	58.5	0	69.3	69.4	70	N	-	-	19.1	Y	N	N
A1-2-3	21	92.5	A1-2	-	50.5	0	68.6	58.7	33.3	58.7	0	69.4	69.5	70	N	-	-	19.0	Y	N	N
A1-2-3	22	95.5	A1-2	-	50.6	0	68.7	58.8	33.4	58.9	0	69.5	69.5	70	N	-	-	18.9	Y	N	N
A1-2-3	23	98.5	A1-2	-	50.6	0	68.7	58.9	33.5	59.1	0	69.5	69.6	70	N	-	-	19.0	Y	N	N
A1-2-3	24	101.5	A1-2	-	50.7	0	68.7	59	33.5	59.3	0	69.6	69.6	70	N	-	-	18.9	Y	N	N
A1-2-3	25	104.5	A1-2	-	50.7	0	68.7	59	33.5	59.4	0	69.6	69.6	70	N	-	-	18.9	Y	N	N
A1-2-3	26	107.5	A1-2	-	50.7	0	68.6	59.1	33.5	59.6	0	69.6	69.6	70	N	-	-	18.9	Y	N	N
A1-2-3	27	110.5	A1-2	-	50.7	0	68.6	59.2	33.6	59.8	0	69.6	69.6	70	N	-	-	18.9	Y	N	N
A1-2-3	28	113.5	A1-2	-	50.8	0	68.6	59.3	33.6	59.9	0	69.6	69.6	70	N	-	-	18.8	Y	N	N
A1-2-3	29	116.5	A1-2	-	50.7	0	68.5	59.3	33.6	60.1	0	69.5	69.6	70	N	-	-	18.9	Y	N	N
A1-2-3	30	119.5	A1-2	-	50.7	0	68.5	59.4	33.6	60.2	0	69.5	69.6	70	N	-	-	18.9	Y	N	N
A1-2-3	31	122.5	A1-2	-	50.7	0	68.4	59.6	33.7	60.3	0	69.5	69.6	70	N	-	-	18.9	Y	N	N
A1-2-3	32	125.5	A1-2	-	50.7	0	68.4	59.7	33.6	60.4	0	69.5	69.6	70	N	-	-	18.9	Y	N	N
A1-2-3	33	128.5	A1-2	-	50.6	0	68.3	59.8	33.7	60.5	0	69.5	69.6	70	N	-	-	19.0	Y	N	N
A1-2-3	34	131.5	A1-2	-	50.7	0	68.3	59.9	33.7	60.7	0	69.5	69.5	70	N	-	-	18.8	Y	N	N
A1-2-3	35	134.5	A1-2	-	50.7	0	68.2	60	33.7	60.9	0	69.5	69.5	70	N	-	-	18.8	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance: C - A dB(A) [D]	Check Project Impact Significance: D ≥ 1dB(A)	Check Direct Mitigation: New Road Contribution dB(A) [E]	Check Direct Mitigation: New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	Check Direct Mitigation: New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)												
A1-2-3	36	137.5	A1-2	-	50.7	0	68.2	60.1	33.7	61	0	69.5	69.5	70	N	-	-	18.8	Y	N	N
A1-2-4	1	32.5	A1-2	-	22.1	0	56	50.9	6	34.7	0	57.2	57.2	70	N	-	-	35.1	Y	N	N
A1-2-4	2	35.5	A1-2	-	22.2	0	62.1	54.1	7.5	35.9	0	62.8	62.8	70	N	-	-	40.6	Y	N	N
A1-2-4	3	38.5	A1-2	-	23.3	0	63.9	54.9	9.1	37.6	0	64.4	64.4	70	N	-	-	41.1	Y	N	N
A1-2-4	4	41.5	A1-2	-	24.9	0	64.1	56	11	39.5	0	64.8	64.8	70	N	-	-	39.9	Y	N	N
A1-2-4	5	44.5	A1-2	-	27.1	0	64.2	56.7	13	41.6	0	64.9	64.9	70	N	-	-	37.8	Y	N	N
A1-2-4	6	47.5	A1-2	-	29.9	0	64.3	57.1	15.3	44.1	0	65.1	65.1	70	N	-	-	35.2	Y	N	N
A1-2-4	7	50.5	A1-2	-	33.7	0	64.3	57.5	17.2	46.6	0	65.2	65.2	70	N	-	-	31.5	Y	N	N
A1-2-4	8	53.5	A1-2	-	37.9	0	64.3	57.7	19.2	48.6	0	65.2	65.3	70	N	-	-	27.4	Y	N	N
A1-2-4	9	56.5	A1-2	-	43.3	0	64.3	57.7	21.3	50.7	0	65.4	65.4	70	N	-	-	22.1	Y	N	N
A1-2-4	10	59.5	A1-2	-	47.5	0	64.4	57.8	23.9	53	0	65.5	65.6	70	N	-	-	18.1	Y	N	N
A1-2-4	11	62.5	A1-2	-	48.3	0	64.5	57.9	27	54.9	0	65.8	65.8	70	N	-	-	17.5	Y	N	N
A1-2-4	12	65.5	A1-2	-	48.7	0	64.7	58.1	29.9	55.6	0	66	66.0	70	N	-	-	17.3	Y	N	N
A1-2-4	13	68.5	A1-2	-	49	0	65	58.1	31.4	56.1	0	66.2	66.3	70	N	-	-	17.3	Y	N	N
A1-2-4	14	71.5	A1-2	-	49.2	0	65.5	58.2	31.9	56.6	0	66.7	66.7	70	N	-	-	17.5	Y	N	N
A1-2-4	15	74.5	A1-2	-	49.4	0	66.1	58.2	32.2	57	0	67.2	67.3	70	N	-	-	17.9	Y	N	N
A1-2-4	16	77.5	A1-2	-	49.6	0	66.8	58.3	32.4	57.4	0	67.8	67.9	70	N	-	-	18.3	Y	N	N
A1-2-4	17	80.5	A1-2	-	49.8	0	67.5	58.4	32.4	57.7	0	68.4	68.4	70	N	-	-	18.6	Y	N	N
A1-2-4	18	83.5	A1-2	-	49.9	0	67.9	58.5	32.5	58	0	68.7	68.8	70	N	-	-	18.9	Y	N	N
A1-2-4	19	86.5	A1-2	-	50.1	0	68.2	58.7	32.5	58.3	0	69.1	69.1	70	N	-	-	19.0	Y	N	N
A1-2-4	20	89.5	A1-2	-	50.3	0	68.4	58.8	32.6	58.5	0	69.3	69.3	70	N	-	-	19.0	Y	N	N
A1-2-4	21	92.5	A1-2	-	50.5	0	68.5	59	32.7	58.7	0	69.4	69.4	70	N	-	-	18.9	Y	N	N
A1-2-4	22	95.5	A1-2	-	50.6	0	68.5	59	32.8	58.9	0	69.4	69.5	70	N	-	-	18.9	Y	N	N
A1-2-4	23	98.5	A1-2	-	50.6	0	68.6	59	32.8	59.2	0	69.5	69.5	70	N	-	-	18.9	Y	N	N
A1-2-4	24	101.5	A1-2	-	50.6	0	68.6	59.1	32.8	59.3	0	69.5	69.5	70	N	-	-	18.9	Y	N	N
A1-2-4	25	104.5	A1-2	-	50.7	0	68.6	59.2	32.8	59.5	0	69.5	69.5	70	N	-	-	18.8	Y	N	N
A1-2-4	26	107.5	A1-2	-	50.7	0	68.5	59.3	32.9	59.7	0	69.5	69.6	70	N	-	-	18.9	Y	N	N
A1-2-4	27	110.5	A1-2	-	50.8	0	68.5	59.4	32.9	59.8	0	69.5	69.6	70	N	-	-	18.8	Y	N	N
A1-2-4	28	113.5	A1-2	-	50.7	0	68.5	59.5	33	60	0	69.5	69.6	70	N	-	-	18.9	Y	N	N
A1-2-4	29	116.5	A1-2	-	50.7	0	68.5	59.5	32.9	60.1	0	69.5	69.6	70	N	-	-	18.9	Y	N	N
A1-2-4	30	119.5	A1-2	-	50.8	0	68.4	59.6	32.9	60.2	0	69.5	69.6	70	N	-	-	18.8	Y	N	N
A1-2-4	31	122.5	A1-2	-	50.8	0	68.4	59.8	33	60.3	0	69.5	69.5	70	N	-	-	18.7	Y	N	N
A1-2-4	32	125.5	A1-2	-	50.7	0	68.3	59.9	33	60.4	0	69.5	69.5	70	N	-	-	18.8	Y	N	N
A1-2-4	33	128.5	A1-2	-	50.7	0	68.3	60	32.9	60.5	0	69.5	69.5	70	N	-	-	18.8	Y	N	N
A1-2-4	34	131.5	A1-2	-	50.7	0	68.2	60.1	33	60.7	0	69.5	69.5	70	N	-	-	18.8	Y	N	N
A1-2-4	35	134.5	A1-2	-	50.7	0	68.2	60.2	33	60.9	0	69.5	69.5	70	N	-	-	18.8	Y	N	N
A1-2-4	36	137.5	A1-2	-	50.7	0	68.1	60.3	33	61	0	69.4	69.5	70	N	-	-	18.8	Y	N	N
A1-2-5	1	32.5	A1-2	-	19.1	0	55.2	54.1	6.2	34.7	0	57.8	57.8	70	N	-	-	38.7	Y	N	N
A1-2-5	2	35.5	A1-2	-	19.3	0	61.1	54.5	7.6	36.1	0	62	62.0	70	N	-	-	42.7	Y	N	N
A1-2-5	3	38.5	A1-2	-	20.2	0	63.4	55.2	9.2	37.7	0	64	64.0	70	N	-	-	43.8	Y	N	N
A1-2-5	4	41.5	A1-2	-	21.6	0	63.8	56.2	11.1	39.5	0	64.5	64.5	70	N	-	-	42.9	Y	N	N
A1-2-5	5	44.5	A1-2	-	23.6	0	63.9	56.9	13.1	41.7	0	64.7	64.7	70	N	-	-	41.1	Y	N	N
A1-2-5	6	47.5	A1-2	-	26.1	0	63.9	57.3	15.3	44.1	0	64.8	64.8	70	N	-	-	38.7	Y	N	N
A1-2-5	7	50.5	A1-2	-	29.3	0	64	57.6	17.1	46.6	0	65	65.0	70	N	-	-	35.7	Y	N	N
A1-2-5	8	53.5	A1-2	-	32.1	0	64	57.8	18.9	48.7	0	65.1	65.1	70	N	-	-	33.0	Y	N	N
A1-2-5	9	56.5	A1-2	-	35.9	0	64.1	57.9	21	50.9	0	65.2	65.2	70	N	-	-	29.3	Y	N	N
A1-2-5	10	59.5	A1-2	-	40.1	0	64.1	57.9	23.3	53.3	0	65.3	65.4	70	N	-	-	25.3	Y	N	N
A1-2-5	11	62.5	A1-2	-	42.2	0	64.3	58	26.3	55.1	0	65.6	65.6	70	N	-	-	23.4	Y	N	N
A1-2-5	12	65.5	A1-2	-	43	0	64.4	58.2	29.3	55.7	0	65.8	65.8	70	N	-	-	22.8	Y	N	N
A1-2-5	13	68.5	A1-2	-	43.6	0	64.7	58.3	31.1	56.2	0	66.1	66.1	70	N	-	-	22.5	Y	N	N
A1-2-5	14	71.5	A1-2	-	44.1	0	65.2	58.3	31.8	56.7	0	66.5	66.5	70	N	-	-	22.4	Y	N	N
A1-2-5	15	74.5	A1-2	-	44.5	0	65.7	58.4	32.2	57.1	0	67	67.0	70	N	-	-	22.5	Y	N	N
A1-2-5	16	77.5	A1-2	-	44.9	0	66.4	58.5	32.3	57.5	0	67.5	67.5	70	N	-	-	22.6	Y	N	N
A1-2-5	17	80.5	A1-2	-	45.3	0	67.1	58.6	32.4	57.8	0	68.1	68.1	70	N	-	-	22.8	Y	N	N
A1-2-5	18	83.5	A1-2	-	45.8	0	67.6	58.7	32.4	58.1	0	68.5	68.5	70	N	-	-	22.7	Y	N	N
A1-2-5	19	86.5	A1-2	-	46.2	0	67.9	58.8	32.5	58.3	0	68.8	68.9	70	N	-	-	22.7	Y	N	N
A1-2-5	20	89.5	A1-2	-	46.6	0	68.2	59	32.6	58.6	0	69.1	69.1	70	N	-	-	22.5	Y	N	N
A1-2-5	21	92.5	A1-2	-	46.8	0	68.3	59.1	32.7	58.8	0	69.2	69.3	70	N	-	-	22.5	Y	N	N
A1-2-5	22	95.5	A1-2	-	46.9	0	68.4	59.2	32.7	59	0	69.3	69.3	70	N	-	-	22.4	Y	N	N
A1-2-5	23	98.5	A1-2	-	47	0	68.4	59.2	32.8	59.2	0	69.4	69.4	70	N	-	-	22.4	Y	N	N
A1-2-5	24	101.5	A1-2	-	47	0	68.4	59.3	32.8	59.4	0	69.4	69.4	70	N	-	-	22.4	Y	N	N
A1-2-5	25	104.5	A1-2	-	47.1	0	68.4	59.4	32.8	59.6	0	69.4	69.4	70	N	-	-	22.3	Y	N	N
A1-2-5	26	107.5	A1-2	-	47.1	0	68.5	59.5	32.8	59.8	0	69.5	69.5	70	N	-	-	22.4	Y	N	N
A1-2-5	27	110.5	A1-2	-	47.1	0	68.4	59.5	32.9	59.9	0	69.5	69.5	70	N	-	-	22.4	Y	N	N
A1-2-5	28	113.5	A1-2	-	47.1	0	68.4	59.7	32.9	60	0	69.5	69.5	70	N	-	-	22.4	Y	N	N
A1-2-5	29	116.5	A1-2	-	47	0	68.4	59.7	32.9	60.1	0	69.5	69.5	70	N	-	-	22.5	Y	N	N
A1-2-5	30	119.5	A1-2	-	47	0	68.3	59.8	32.9	60.3	0	69.5	69.5	70	N	-	-	22.5	Y	N	N
A1-2-5	31	122.5	A1-2	-	47	0	68.3	60	33	60.4	0	69.4	69.5	70	N	-	-	22.5	Y	N	N
A1-2-5	32	125.5	A1-2	-	46.9	0	68.2	60	33	60.5	0	69.4	69.5	70	N	-	-	22.6	Y	N	N
A1-2-5	33	128.5	A1-2	-	47	0	68.2	60.2	32.9	60.7	0	69.5	69.5	70	N	-	-	22.5	Y	N	N
A1-2-5	34	131.5	A1-2	-	46.9	0	68.1	60.3	32.9	60.8	0	69.4	69.5	70	N	-	-	22.6	Y	N	N
A1-2-5	35	134.5	A1-2	-	46.9	0	68.1	60.3	33	60.9	0	69.4	69.5	70	N	-	-	22.6	Y	N	N
A1-2-5	36	137.5	A1-2	-	46.8	0	68	60.4	33	61.1	0	69.4	69.4	70	N	-	-	22.6	Y	N	N
A1-2-6	1	32.5	A1-2	-	18.8	0	54.5	54.4	6.4	34.9	0	57.5	57.5	70	N	-	-	38.7	Y	N	N
A1-2-6	2	35.5	A1-2	-	19.1	0	60.1	54.7	7.8	36.2	0	61.2	61.2	70	N	-	-	42.1	Y	N	N
A1-2-6	3	38.5	A1-2	-	20.1	0	62.8	55.4	9.5	37.8	0	63.6	63.6	70	N	-	-	43.5	Y	N	N
A1-2-6	4	41.5	A1-2	-	21.5	0	63.4	56.3	11.2	39.7	0	64.2	64.2	70	N	-	-	42.7	Y	N	N
A1-2-6	5	44.5	A1-2	-	23.5	0	63.6	57.1	13.1	41.8	0	64.5	64.5	70	N	-	-	41.0	Y	N	N
A1-2-6	6	47.5	A1-2	-	26.2	0	63.6	57.5	15.3	44.2	0	64.6	64.6	70	N	-	-	38.4	Y	N	N
A1-2-6	7	50.5	A1-2	-	29.4	0	63.7	57.8	16.9	46.7	0	64.8	64.8	70	N	-	-	35.4	Y	N	N
A1-2-6	8	53.5	A1-2	-	32.2	0	63.8	58	18.7	48.8	0	64.9	64.9	70	N	-	-	32.7	Y	N	N
A1-2-6	9	56.5	A1-2	-	36	0	63.8	58.1	20.6	51	0	65	65.0	70	N	-	-	29.0	Y	N	N
A1-2-6	10	59.5	A1-2	-	40.2	0	63.9	58.1	23	53.5	0	65.2	65.2	70	N	-	-	25.0	Y	N	N
A1-2-6	11	62.5	A1-2	-	42.3	0	64	58.2	25.8	55.2	0	65.5	65.5	70	N	-	-	23.2	Y	N	N
A1-2-6	12	65.5	A1-2	-	43.1	0	64.2	58.4	28.7	55.8	0	65.7	65.7	70	N	-	-	22.6	Y	N	N
A1-2-6	13	68.5	A1-2	-	43.7	0	64.5	58.5	30.7	56.3	0	65.9	66.0	70	N	-	-	22.3	Y	N	N
A1-2-6	14	71.5	A1-2	-	44.1	0	64.9	58.6	31.7	56.7	0	66.4	66.4	70	N	-	-	22.3	Y	N	N
A1-2-6	15	74.5	A1-2	-	44.6	0	65.5	58.7	32.1	57.2	0	66.8	66.8	70	N	-	-	22.2	Y	N	N
A1-2-6	16	77.5	A1-2	-	44.9	0	66	58.8	32.3	57.5	0	67.3	67.3	70	N	-	-	22.4	Y	N	N
A1-2-6	17	80.5	A1-2	-	45.5	0	66.7	58.8	32.4	57.9	0	67.8	67.8	70	N	-	-	22.3	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
									dB (A)							C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
A1-2-6	18	83.5	A1-2	-	45.8	0	67.2	59	32.5	58.1	0	68.3	68.3	70	N	-	-	22.5	Y	N	N
A1-2-6	19	86.5	A1-2	-	46.3	0	67.6	59.1	32.5	58.4	0	68.6	68.6	70	N	-	-	22.3	Y	N	N
A1-2-6	20	89.5	A1-2	-	46.6	0	67.9	59.3	32.6	58.6	0	68.9	68.9	70	N	-	-	22.3	Y	N	N
A1-2-6	21	92.5	A1-2	-	46.8	0	68.1	59.3	32.7	58.8	0	69.1	69.1	70	N	-	-	22.3	Y	N	N
A1-2-6	22	95.5	A1-2	-	46.9	0	68.2	59.4	32.7	59	0	69.2	69.2	70	N	-	-	22.3	Y	N	N
A1-2-6	23	98.5	A1-2	-	47	0	68.2	59.5	32.8	59.2	0	69.2	69.3	70	N	-	-	22.3	Y	N	N
A1-2-6	24	101.5	A1-2	-	47	0	68.3	59.5	32.8	59.4	0	69.3	69.3	70	N	-	-	22.3	Y	N	N
A1-2-6	25	104.5	A1-2	-	47	0	68.3	59.6	32.8	59.6	0	69.4	69.4	70	N	-	-	22.4	Y	N	N
A1-2-6	26	107.5	A1-2	-	47.1	0	68.3	59.7	32.8	59.7	0	69.4	69.4	70	N	-	-	22.3	Y	N	N
A1-2-6	27	110.5	A1-2	-	47	0	68.3	59.8	32.9	59.9	0	69.4	69.4	70	N	-	-	22.4	Y	N	N
A1-2-6	28	113.5	A1-2	-	47	0	68.3	59.9	32.9	60	0	69.4	69.4	70	N	-	-	22.4	Y	N	N
A1-2-6	29	116.5	A1-2	-	47	0	68.3	59.9	32.9	60.1	0	69.4	69.4	70	N	-	-	22.4	Y	N	N
A1-2-6	30	119.5	A1-2	-	47	0	68.2	60.1	32.9	60.2	0	69.4	69.4	70	N	-	-	22.4	Y	N	N
A1-2-6	31	122.5	A1-2	-	47	0	68.2	60.2	32.9	60.4	0	69.4	69.4	70	N	-	-	22.4	Y	N	N
A1-2-6	32	125.5	A1-2	-	46.9	0	68.1	60.3	33	60.5	0	69.4	69.4	70	N	-	-	22.5	Y	N	N
A1-2-6	33	128.5	A1-2	-	46.9	0	68.1	60.4	32.9	60.7	0	69.4	69.4	70	N	-	-	22.5	Y	N	N
A1-2-6	34	131.5	A1-2	-	46.9	0	68	60.5	33	60.8	0	69.4	69.4	70	N	-	-	22.5	Y	N	N
A1-2-6	35	134.5	A1-2	-	46.8	0	68	60.5	32.9	61	0	69.4	69.4	70	N	-	-	22.6	Y	N	N
A1-2-6	36	137.5	A1-2	-	46.8	0	67.9	60.5	33	61.1	0	69.4	69.4	70	N	-	-	22.6	Y	N	N
A1-2-7	1	32.5	A1-2	-	17.5	0	54	54.9	5.7	44.9	0	57.7	57.7	70	N	-	-	40.2	Y	N	N
A1-2-7	2	35.5	A1-2	-	18	0	58.9	55.1	7.2	45.7	0	60.6	60.6	70	N	-	-	42.6	Y	N	N
A1-2-7	3	38.5	A1-2	-	19.2	0	62.3	55.5	8.8	46.5	0	63.2	63.2	70	N	-	-	44.0	Y	N	N
A1-2-7	4	41.5	A1-2	-	21.1	0	63.1	56.4	10.5	47.2	0	64	64.0	70	N	-	-	42.9	Y	N	N
A1-2-7	5	44.5	A1-2	-	23.3	0	63.3	57.4	12.5	48.1	0	64.4	64.4	70	N	-	-	41.1	Y	N	N
A1-2-7	6	47.5	A1-2	-	26	0	63.4	57.9	14.4	49.3	0	64.6	64.6	70	N	-	-	38.6	Y	N	N
A1-2-7	7	50.5	A1-2	-	29.3	0	63.5	58.2	16	50.6	0	64.8	64.8	70	N	-	-	35.5	Y	N	N
A1-2-7	8	53.5	A1-2	-	32.3	0	63.6	58.4	17.6	52	0	65	65.0	70	N	-	-	32.7	Y	N	N
A1-2-7	9	56.5	A1-2	-	36.3	0	63.7	58.5	19.3	53.7	0	65.2	65.2	70	N	-	-	28.9	Y	N	N
A1-2-7	10	59.5	A1-2	-	40.7	0	63.8	58.6	21.4	55.5	0	65.4	65.4	70	N	-	-	24.7	Y	N	N
A1-2-7	11	62.5	A1-2	-	42.6	0	63.8	58.8	23.9	56.8	0	65.6	65.6	70	N	-	-	23.0	Y	N	N
A1-2-7	12	65.5	A1-2	-	43.3	0	64	58.9	27	57.3	0	65.8	65.8	70	N	-	-	22.5	Y	N	N
A1-2-7	13	68.5	A1-2	-	43.9	0	64.3	59	29.4	57.7	0	66.1	66.1	70	N	-	-	22.2	Y	N	N
A1-2-7	14	71.5	A1-2	-	44.3	0	64.7	59	30.8	58.2	0	66.5	66.5	70	N	-	-	22.2	Y	N	N
A1-2-7	15	74.5	A1-2	-	44.8	0	65.2	59.1	31.4	58.6	0	66.8	66.9	70	N	-	-	22.1	Y	N	N
A1-2-7	16	77.5	A1-2	-	45.2	0	65.6	59.2	31.7	58.9	0	67.2	67.2	70	N	-	-	22.0	Y	N	N
A1-2-7	17	80.5	A1-2	-	45.7	0	66.1	59.3	31.9	59.2	0	67.6	67.7	70	N	-	-	22.0	Y	N	N
A1-2-7	18	83.5	A1-2	-	46.2	0	66.6	59.5	31.9	59.5	0	68.1	68.1	70	N	-	-	21.9	Y	N	N
A1-2-7	19	86.5	A1-2	-	46.5	0	67.1	59.6	32	59.8	0	68.4	68.5	70	N	-	-	22.0	Y	N	N
A1-2-7	20	89.5	A1-2	-	46.7	0	67.4	59.7	31.9	60	0	68.7	68.7	70	N	-	-	22.0	Y	N	N
A1-2-7	21	92.5	A1-2	-	46.9	0	67.7	59.8	32	60.2	0	68.9	69.0	70	N	-	-	22.1	Y	N	N
A1-2-7	22	95.5	A1-2	-	46.9	0	67.8	59.9	32.1	60.4	0	69.1	69.1	70	N	-	-	22.2	Y	N	N
A1-2-7	23	98.5	A1-2	-	47	0	68	59.9	32.2	60.6	0	69.2	69.3	70	N	-	-	22.3	Y	N	N
A1-2-7	24	101.5	A1-2	-	47	0	68	60	32.1	60.8	0	69.3	69.3	70	N	-	-	22.3	Y	N	N
A1-2-7	25	104.5	A1-2	-	47	0	68.1	60.1	32.1	61.1	0	69.4	69.4	70	N	-	-	22.4	Y	N	N
A1-2-7	26	107.5	A1-2	-	47	0	68.1	60.1	32.2	61.2	0	69.5	69.5	70	N	-	-	22.5	Y	N	N
A1-2-7	27	110.5	A1-2	-	47	0	68.1	60.2	32.3	61.5	0	69.5	69.5	70	N	-	-	22.5	Y	N	N
A1-2-7	28	113.5	A1-2	-	47	0	68.1	60.3	32.2	61.7	0	69.6	69.6	70	N	-	-	22.6	Y	N	N
A1-2-7	29	116.5	A1-2	-	46.9	0	68.1	60.3	32.2	61.8	0	69.6	69.6	70	N	-	-	22.7	Y	N	N
A1-2-7	30	119.5	A1-2	-	46.9	0	68.1	60.4	32.2	61.9	0	69.6	69.6	70	N	-	-	22.7	Y	N	N
A1-2-7	31	122.5	A1-2	-	46.9	0	68	60.5	32.3	62	0	69.6	69.6	70	N	-	-	22.7	Y	N	N
A1-2-7	32	125.5	A1-2	-	46.9	0	68	60.6	32.3	62.2	0	69.6	69.6	70	N	-	-	22.7	Y	N	N
A1-2-7	33	128.5	A1-2	-	46.8	0	67.9	60.7	32.3	62.3	0	69.6	69.6	70	N	-	-	22.8	Y	N	N
A1-2-7	34	131.5	A1-2	-	46.8	0	67.9	60.7	32.2	62.5	0	69.6	69.6	70	N	-	-	22.8	Y	N	N
A1-2-7	35	134.5	A1-2	-	46.8	0	67.8	60.7	32.2	62.7	0	69.6	69.6	70	N	-	-	22.8	Y	N	N
A1-2-7	36	137.5	A1-2	-	46.7	0	67.8	60.7	32.2	62.8	0	69.6	69.6	70	N	-	-	22.9	Y	N	N
A1-2-8	1	32.5	A1-2	-	21.8	0	54	55.3	5.9	45.1	0	57.9	57.9	70	N	-	-	36.1	Y	N	N
A1-2-8	2	35.5	A1-2	-	21.9	0	58.6	55.4	7.3	45.9	0	60.4	60.4	70	N	-	-	38.5	Y	N	N
A1-2-8	3	38.5	A1-2	-	22.9	0	62.1	55.8	8.8	46.7	0	63.1	63.1	70	N	-	-	40.2	Y	N	N
A1-2-8	4	41.5	A1-2	-	24.7	0	63.1	56.6	10.5	47.4	0	64	64.0	70	N	-	-	39.3	Y	N	N
A1-2-8	5	44.5	A1-2	-	27	0	63.4	57.7	12.5	48.4	0	64.5	64.5	70	N	-	-	37.5	Y	N	N
A1-2-8	6	47.5	A1-2	-	29.9	0	63.6	58.3	14.3	49.4	0	64.8	64.8	70	N	-	-	34.9	Y	N	N
A1-2-8	7	50.5	A1-2	-	33.8	0	63.6	58.5	15.8	50.7	0	64.9	65.0	70	N	-	-	31.2	Y	N	N
A1-2-8	8	53.5	A1-2	-	37.8	0	63.7	58.6	17.5	52.1	0	65.1	65.1	70	N	-	-	27.3	Y	N	N
A1-2-8	9	56.5	A1-2	-	43	0	63.8	58.7	19.2	53.8	0	65.3	65.3	70	N	-	-	22.3	Y	N	N
A1-2-8	10	59.5	A1-2	-	48.7	0	63.9	58.8	21.1	55.6	0	65.5	65.6	70	N	-	-	16.9	Y	N	N
A1-2-8	11	62.5	A1-2	-	49.7	0	64	59	23.5	56.8	0	65.8	65.9	70	N	-	-	16.2	Y	N	N
A1-2-8	12	65.5	A1-2	-	50.2	0	64.1	59.1	26.5	57.3	0	65.9	66.1	70	N	-	-	15.9	Y	N	N
A1-2-8	13	68.5	A1-2	-	50.4	0	64.4	59.2	29.1	57.7	0	66.2	66.3	70	N	-	-	15.9	Y	N	N
A1-2-8	14	71.5	A1-2	-	50.5	0	64.8	59.3	30.7	58.2	0	66.6	66.7	70	N	-	-	16.2	Y	N	N
A1-2-8	15	74.5	A1-2	-	50.7	0	65.2	59.4	31.4	58.6	0	66.9	67.0	70	N	-	-	16.3	Y	N	N
A1-2-8	16	77.5	A1-2	-	50.9	0	65.5	59.5	31.7	59	0	67.2	67.3	70	N	-	-	16.4	Y	N	N
A1-2-8	17	80.5	A1-2	-	51.1	0	65.9	59.7	31.8	59.3	0	67.5	67.6	70	N	-	-	16.5	Y	N	N
A1-2-8	18	83.5	A1-2	-	51.1	0	66.4	59.8	31.9	59.5	0	68	68.0	70	N	-	-	16.9	Y	N	N
A1-2-8	19	86.5	A1-2	-	51.3	0	66.9	59.9	32	59.8	0	68.3	68.4	70	N	-	-	17.1	Y	N	N
A1-2-8	20	89.5	A1-2	-	51.4	0	67.2	60	32	60	0	68.6	68.7	70	N	-	-	17.3	Y	N	N
A1-2-8	21	92.5	A1-2	-	51.4	0	67.4	60.1	32	60.2	0	68.8	68.9	70	N	-	-	17.5	Y	N	N
A1-2-8	22	95.5	A1-2	-	51.5	0	67.6	60.1	32.1	60.4	0	69	69.1	70	N	-	-	17.6	Y	N	N
A1-2-8	23	98.5	A1-2	-	51.5	0	67.8	60.2	32.1	60.6	0	69.2	69.2	70	N	-	-	17.7	Y	N	N
A1-2-8	24	101.5	A1-2	-	51.5	0	68	60.2	32.2	60.8	0	69.3	69.4	70	N	-	-	17.9	Y	N	N
A1-2-8	25	104.5	A1-2	-	51.5	0	68	60.3	32.2	61	0	69.4	69.5	70	N	-	-	18.0	Y	N	N
A1-2-8	26	107.5	A1-2	-	51.5	0	68.1	60.3	32.2	61.3	0	69.5	69.5	70	N	-	-	18.0	Y	N	N
A1-2-8	27	110.5	A1-2	-	51.5	0	68.1	60.5	32.2	61.5	0	69.5	69.6	70	N	-	-	18.1	Y	N	N
A1-2-8	28	113.5	A1-2	-	51.5	0	68.1	60.5	32.2	61.7	0	69.5	69.6	70	N	-	-	18.1	Y	N	N
A1-2-8	29	116.5	A1-2	-	51.4	0	68	60.6	32.2	61.9	0	69.6	69.6	70	N	-	-	18.2	Y	N	N
A1-2-8	30	119.5	A1-2	-	51.4	0	68	60.7	32.2	61.9	0	69.6	69.6	70	N	-	-	18.2	Y	N	N
A1-2-8	31	122.5	A1-2	-	51.4	0	68	60.7	32.3	62	0	69.6	69.6	70	N	-	-	18.2	Y	N	N
A1-2-8	32	125.5	A1-2	-	51.3	0	67.9	60.8	32.3	62.2	0	69.6	69.6	70	N	-	-	18.3	Y	N	N
A1-2-8	33	128.5	A1-2	-	51.3	0	67.9	60.8	32.3	62.4	0	69.6	69.6	70	N	-	-	18.3	Y	N	N
A1-2-8	34	131.5	A1-2	-	51.3	0	67.8	60.8	32.3	62.6	0	69.6	69.6	70	N	-	-	18.3	Y	N	N
A1-2-8	35	134.5	A1-2	-	51.3	0	67.8	60.8	32.2	62.7	0	69.6	69.6	70	N	-	-	18.3	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance: C - A dB(A) [D]	Check Project Impact Significance: D ≥ 1dB(A)	Check Direct Mitigation: New Road Contribution dB(A) [E]	Check Direct Mitigation: New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	Check Direct Mitigation: New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)												
A1-2-8	36	137.5	A1-2	-	51.2	0	67.7	60.8	32.2	62.8	0	69.6	69.6	70	N	-	-	18.4	Y	N	N
A1-2-9	1	32.5	A1-2	-	21.5	0	53.7	55.6	6	45.3	0	58	58.0	70	N	-	-	36.5	Y	N	N
A1-2-9	2	35.5	A1-2	-	21.7	0	58	55.7	7.5	46	0	60.1	60.1	70	N	-	-	38.4	Y	N	N
A1-2-9	3	38.5	A1-2	-	22.8	0	61.4	56	9	46.8	0	62.6	62.6	70	N	-	-	39.8	Y	N	N
A1-2-9	4	41.5	A1-2	-	24.6	0	62.6	56.8	10.7	47.6	0	63.7	63.7	70	N	-	-	39.1	Y	N	N
A1-2-9	5	44.5	A1-2	-	26.9	0	63	57.9	12.5	48.5	0	64.3	64.3	70	N	-	-	37.4	Y	N	N
A1-2-9	6	47.5	A1-2	-	29.8	0	63.1	58.5	14.2	49.6	0	64.5	64.5	70	N	-	-	34.7	Y	N	N
A1-2-9	7	50.5	A1-2	-	33.6	0	63.2	58.7	15.7	50.8	0	64.7	64.7	70	N	-	-	31.1	Y	N	N
A1-2-9	8	53.5	A1-2	-	37.7	0	63.4	58.8	17.3	52.2	0	64.9	64.9	70	N	-	-	27.2	Y	N	N
A1-2-9	9	56.5	A1-2	-	43.2	0	63.5	58.9	19	53.8	0	65.1	65.1	70	N	-	-	21.9	Y	N	N
A1-2-9	10	59.5	A1-2	-	48.8	0	63.6	59	20.9	55.7	0	65.4	65.5	70	N	-	-	16.7	Y	N	N
A1-2-9	11	62.5	A1-2	-	49.4	0	63.7	59.2	23.1	56.8	0	65.6	65.7	70	N	-	-	16.3	Y	N	N
A1-2-9	12	65.5	A1-2	-	49.8	0	63.8	59.3	26.1	57.3	0	65.8	65.9	70	N	-	-	16.1	Y	N	N
A1-2-9	13	68.5	A1-2	-	50	0	64.1	59.4	28.8	57.8	0	66.1	66.2	70	N	-	-	16.2	Y	N	N
A1-2-9	14	71.5	A1-2	-	50.2	0	64.5	59.5	30.6	58.2	0	66.4	66.5	70	N	-	-	16.3	Y	N	N
A1-2-9	15	74.5	A1-2	-	50.4	0	64.9	59.6	31.3	58.6	0	66.7	66.8	70	N	-	-	16.4	Y	N	N
A1-2-9	16	77.5	A1-2	-	50.4	0	65.2	59.7	31.6	58.9	0	67	67.1	70	N	-	-	16.7	Y	N	N
A1-2-9	17	80.5	A1-2	-	50.6	0	65.6	59.8	31.8	59.2	0	67.3	67.4	70	N	-	-	16.8	Y	N	N
A1-2-9	18	83.5	A1-2	-	50.8	0	66	60	31.8	59.5	0	67.7	67.7	70	N	-	-	16.9	Y	N	N
A1-2-9	19	86.5	A1-2	-	50.9	0	66.4	60	31.9	59.7	0	68	68.1	70	N	-	-	17.2	Y	N	N
A1-2-9	20	89.5	A1-2	-	51	0	66.8	60.1	32	60	0	68.3	68.4	70	N	-	-	17.4	Y	N	N
A1-2-9	21	92.5	A1-2	-	51	0	67.1	60.2	32	60.2	0	68.6	68.6	70	N	-	-	17.6	Y	N	N
A1-2-9	22	95.5	A1-2	-	51.1	0	67.3	60.2	32	60.4	0	68.7	68.8	70	N	-	-	17.7	Y	N	N
A1-2-9	23	98.5	A1-2	-	51.1	0	67.5	60.3	32.1	60.6	0	68.9	69.0	70	N	-	-	17.9	Y	N	N
A1-2-9	24	101.5	A1-2	-	51.1	0	67.7	60.3	32.1	60.8	0	69.1	69.2	70	N	-	-	18.1	Y	N	N
A1-2-9	25	104.5	A1-2	-	51.1	0	67.8	60.4	32.1	61	0	69.2	69.3	70	N	-	-	18.2	Y	N	N
A1-2-9	26	107.5	A1-2	-	51.1	0	67.8	60.4	32.1	61.3	0	69.3	69.4	70	N	-	-	18.3	Y	N	N
A1-2-9	27	110.5	A1-2	-	51.1	0	67.8	60.5	32.2	61.5	0	69.4	69.4	70	N	-	-	18.3	Y	N	N
A1-2-9	28	113.5	A1-2	-	51	0	67.8	60.5	32.2	61.7	0	69.4	69.4	70	N	-	-	18.4	Y	N	N
A1-2-9	29	116.5	A1-2	-	51	0	67.8	60.6	32.2	61.8	0	69.4	69.5	70	N	-	-	18.5	Y	N	N
A1-2-9	30	119.5	A1-2	-	51	0	67.8	60.7	32.2	61.9	0	69.4	69.5	70	N	-	-	18.5	Y	N	N
A1-2-9	31	122.5	A1-2	-	50.9	0	67.7	60.8	32.2	62	0	69.4	69.5	70	N	-	-	18.6	Y	N	N
A1-2-9	32	125.5	A1-2	-	50.9	0	67.7	60.8	32.2	62.1	0	69.4	69.5	70	N	-	-	18.6	Y	N	N
A1-2-9	33	128.5	A1-2	-	50.9	0	67.7	60.8	32.2	62.3	0	69.4	69.5	70	N	-	-	18.6	Y	N	N
A1-2-9	34	131.5	A1-2	-	50.9	0	67.6	60.8	32.2	62.5	0	69.4	69.5	70	N	-	-	18.6	Y	N	N
A1-2-9	35	134.5	A1-2	-	50.9	0	67.6	60.8	32.2	62.7	0	69.4	69.5	70	N	-	-	18.6	Y	N	N
A1-2-9	36	137.5	A1-2	-	50.9	0	67.5	60.8	32.2	62.8	0	69.4	69.5	70	N	-	-	18.6	Y	N	N
A1-2-10	1	32.5	A1-2	-	21.4	0	53.6	55.1	6.2	45.4	0	57.7	57.7	70	N	-	-	36.3	Y	N	N
A1-2-10	2	35.5	A1-2	-	21.8	0	57.6	55.9	7.5	46.1	0	60	60.0	70	N	-	-	38.2	Y	N	N
A1-2-10	3	38.5	A1-2	-	22.8	0	61	56.2	9	46.8	0	62.4	62.4	70	N	-	-	39.6	Y	N	N
A1-2-10	4	41.5	A1-2	-	24.7	0	62.3	56.9	10.7	47.6	0	63.5	63.5	70	N	-	-	38.8	Y	N	N
A1-2-10	5	44.5	A1-2	-	27	0	62.8	58	12.6	48.5	0	64.1	64.1	70	N	-	-	37.1	Y	N	N
A1-2-10	6	47.5	A1-2	-	30	0	63	58.7	14.2	49.6	0	64.5	64.5	70	N	-	-	34.5	Y	N	N
A1-2-10	7	50.5	A1-2	-	33.6	0	63.1	58.9	15.7	50.8	0	64.7	64.7	70	N	-	-	31.1	Y	N	N
A1-2-10	8	53.5	A1-2	-	37.8	0	63.2	59	17.2	52.2	0	64.8	64.9	70	N	-	-	27.1	Y	N	N
A1-2-10	9	56.5	A1-2	-	43.6	0	63.3	59.1	19	53.9	0	65.1	65.1	70	N	-	-	21.5	Y	N	N
A1-2-10	10	59.5	A1-2	-	48.9	0	63.5	59.2	20.9	55.8	0	65.4	65.5	70	N	-	-	16.6	Y	N	N
A1-2-10	11	62.5	A1-2	-	49.5	0	63.6	59.4	23.1	56.8	0	65.6	65.7	70	N	-	-	16.2	Y	N	N
A1-2-10	12	65.5	A1-2	-	49.9	0	63.8	59.6	25.9	57.3	0	65.8	65.9	70	N	-	-	16.0	Y	N	N
A1-2-10	13	68.5	A1-2	-	49.9	0	64	59.7	28.7	57.8	0	66.1	66.2	70	N	-	-	16.3	Y	N	N
A1-2-10	14	71.5	A1-2	-	50.1	0	64.5	59.8	30.6	58.2	0	66.5	66.6	70	N	-	-	16.5	Y	N	N
A1-2-10	15	74.5	A1-2	-	50.3	0	64.8	59.9	31.3	58.6	0	66.8	66.9	70	N	-	-	16.6	Y	N	N
A1-2-10	16	77.5	A1-2	-	50.5	0	65.1	60	31.6	59	0	67	67.1	70	N	-	-	16.6	Y	N	N
A1-2-10	17	80.5	A1-2	-	50.7	0	65.5	60.2	31.7	59.2	0	67.3	67.4	70	N	-	-	16.7	Y	N	N
A1-2-10	18	83.5	A1-2	-	50.8	0	65.8	60.2	31.8	59.5	0	67.6	67.7	70	N	-	-	16.9	Y	N	N
A1-2-10	19	86.5	A1-2	-	50.9	0	66.1	60.3	31.9	59.7	0	67.9	67.9	70	N	-	-	17.0	Y	N	N
A1-2-10	20	89.5	A1-2	-	51	0	66.5	60.4	32	60	0	68.2	68.3	70	N	-	-	17.3	Y	N	N
A1-2-10	21	92.5	A1-2	-	51.1	0	66.8	60.4	32	60.2	0	68.4	68.5	70	N	-	-	17.4	Y	N	N
A1-2-10	22	95.5	A1-2	-	51	0	67.1	60.5	32	60.4	0	68.6	68.7	70	N	-	-	17.7	Y	N	N
A1-2-10	23	98.5	A1-2	-	51.1	0	67.3	60.5	32	60.6	0	68.8	68.9	70	N	-	-	17.8	Y	N	N
A1-2-10	24	101.5	A1-2	-	51.1	0	67.5	60.5	32	60.8	0	69	69.1	70	N	-	-	18.0	Y	N	N
A1-2-10	25	104.5	A1-2	-	51.1	0	67.6	60.6	32.1	61.1	0	69.1	69.2	70	N	-	-	18.1	Y	N	N
A1-2-10	26	107.5	A1-2	-	51.1	0	67.7	60.6	32.1	61.3	0	69.2	69.3	70	N	-	-	18.2	Y	N	N
A1-2-10	27	110.5	A1-2	-	51.1	0	67.7	60.7	32.2	61.5	0	69.3	69.4	70	N	-	-	18.3	Y	N	N
A1-2-10	28	113.5	A1-2	-	51.1	0	67.7	60.7	32.2	61.7	0	69.3	69.4	70	N	-	-	18.3	Y	N	N
A1-2-10	29	116.5	A1-2	-	51.1	0	67.7	60.8	32.1	61.8	0	69.3	69.4	70	N	-	-	18.3	Y	N	N
A1-2-10	30	119.5	A1-2	-	51	0	67.7	60.8	32.2	61.9	0	69.4	69.4	70	N	-	-	18.4	Y	N	N
A1-2-10	31	122.5	A1-2	-	51	0	67.6	60.9	32.1	62	0	69.3	69.4	70	N	-	-	18.4	Y	N	N
A1-2-10	32	125.5	A1-2	-	51	0	67.6	60.9	32.1	62.2	0	69.4	69.4	70	N	-	-	18.4	Y	N	N
A1-2-10	33	128.5	A1-2	-	50.9	0	67.6	60.9	32.2	62.3	0	69.4	69.4	70	N	-	-	18.5	Y	N	N
A1-2-10	34	131.5	A1-2	-	50.9	0	67.5	60.9	32.2	62.5	0	69.4	69.4	70	N	-	-	18.5	Y	N	N
A1-2-10	35	134.5	A1-2	-	50.9	0	67.5	60.9	32.1	62.7	0	69.4	69.4	70	N	-	-	18.5	Y	N	N
A1-2-10	36	137.5	A1-2	-	50.8	0	67.4	60.9	32.2	62.8	0	69.4	69.5	70	N	-	-	18.7	Y	N	N
A1-2-11	1	32.5	A1-2	-	21.5	0	53.6	54.9	6.3	45.6	0	57.6	57.6	70	N	-	-	36.1	Y	N	N
A1-2-11	2	35.5	A1-2	-	21.8	0	57.5	56.2	7.6	46.4	0	60.1	60.1	70	N	-	-	38.3	Y	N	N
A1-2-11	3	38.5	A1-2	-	22.9	0	60.8	56.5	9.1	47.1	0	62.3	62.3	70	N	-	-	39.4	Y	N	N
A1-2-11	4	41.5	A1-2	-	24.8	0	62.2	57.2	10.7	47.9	0	63.5	63.5	70	N	-	-	38.7	Y	N	N
A1-2-11	5	44.5	A1-2	-	27.1	0	62.7	58.2	12.6	48.7	0	64.1	64.1	70	N	-	-	37.0	Y	N	N
A1-2-11	6	47.5	A1-2	-	30	0	62.9	58.8	14.2	49.8	0	64.5	64.5	70	N	-	-	34.5	Y	N	N
A1-2-11	7	50.5	A1-2	-	33.8	0	63.1	59.1	15.7	51	0	64.7	64.7	70	N	-	-	30.9	Y	N	N
A1-2-11	8	53.5	A1-2	-	38	0	63.2	59.3	17.3	52.3	0	64.9	64.9	70	N	-	-	26.9	Y	N	N
A1-2-11	9	56.5	A1-2	-	44.1	0	63.3	59.3	19	54	0	65.1	65.2	70	N	-	-	21.1	Y	N	N
A1-2-11	10	59.5	A1-2	-	49	0	63.4	59.5	20.9	55.9	0	65.4	65.5	70	N	-	-	16.5	Y	N	N
A1-2-11	11	62.5	A1-2	-	49.5	0	63.6	59.6	23.3	56.9	0	65.7	65.8	70	N	-	-	16.3	Y	N	N
A1-2-11	12	65.5	A1-2	-	49.7	0	63.8	59.8	26.2	57.3	0	65.9	66.0	70	N	-	-	16.3	Y	N	N
A1-2-11	13	68.5	A1-2	-	50	0	64	59.9	29	57.8	0	66.1	66.2	70	N	-	-	16.2	Y	N	N
A1-2-11	14	71.5	A1-2	-	50.1	0	64.5	60	30.7	58.2	0	66.5	66.6	70	N	-	-	16.5	Y	N	N
A1-2-11	15	74.5	A1-2	-	50.4	0	64.8	60.1	31.4	58.6	0	66.8	66.9	70	N	-	-	16.5	Y	N	N
A1-2-11	16	77.5	A1-2	-	50.5	0	65.1	60.2	31.6	59	0	67	67.1	70	N	-	-	16.6	Y	N	N
A1-2-11	17	80.5	A1-2	-	50.7	0	65.4	60.3	31.8	59.3	0	67.3	67.4	70	N	-	-	16.7	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
									dB (A)							C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
A1-2-11	18	83.5	A1-2	-	50.8	0	65.6	60.4	31.8	59.5	0	67.5	67.6	70	N	-	-	16.8	Y	N	N
A1-2-11	19	86.5	A1-2	-	51	0	65.9	60.5	31.9	59.8	0	67.8	67.9	70	N	-	-	16.9	Y	N	N
A1-2-11	20	89.5	A1-2	-	51	0	66.3	60.6	31.9	60	0	68	68.1	70	N	-	-	17.1	Y	N	N
A1-2-11	21	92.5	A1-2	-	51	0	66.6	60.6	32	60.2	0	68.3	68.4	70	N	-	-	17.4	Y	N	N
A1-2-11	22	95.5	A1-2	-	51.1	0	66.9	60.7	32.1	60.4	0	68.6	68.7	70	N	-	-	17.6	Y	N	N
A1-2-11	23	98.5	A1-2	-	51.1	0	67.2	60.7	32	60.6	0	68.8	68.9	70	N	-	-	17.8	Y	N	N
A1-2-11	24	101.5	A1-2	-	51	0	67.3	60.7	32	60.8	0	68.9	69.0	70	N	-	-	18.0	Y	N	N
A1-2-11	25	104.5	A1-2	-	51.1	0	67.5	60.7	32.1	61.1	0	69.1	69.1	70	N	-	-	18.0	Y	N	N
A1-2-11	26	107.5	A1-2	-	51.1	0	67.6	60.8	32.1	61.3	0	69.2	69.2	70	N	-	-	18.1	Y	N	N
A1-2-11	27	110.5	A1-2	-	51.1	0	67.6	60.8	32.2	61.5	0	69.2	69.3	70	N	-	-	18.2	Y	N	N
A1-2-11	28	113.5	A1-2	-	51	0	67.6	60.8	32.2	61.7	0	69.3	69.3	70	N	-	-	18.3	Y	N	N
A1-2-11	29	116.5	A1-2	-	51	0	67.6	60.9	32.2	61.7	0	69.3	69.3	70	N	-	-	18.3	Y	N	N
A1-2-11	30	119.5	A1-2	-	51	0	67.6	60.9	32.2	61.9	0	69.3	69.4	70	N	-	-	18.4	Y	N	N
A1-2-11	31	122.5	A1-2	-	51	0	67.6	60.9	32.2	62	0	69.3	69.4	70	N	-	-	18.4	Y	N	N
A1-2-11	32	125.5	A1-2	-	50.9	0	67.5	60.9	32.1	62.2	0	69.3	69.4	70	N	-	-	18.5	Y	N	N
A1-2-11	33	128.5	A1-2	-	50.9	0	67.5	60.9	32.2	62.4	0	69.3	69.4	70	N	-	-	18.5	Y	N	N
A1-2-11	34	131.5	A1-2	-	50.9	0	67.4	60.9	32.2	62.5	0	69.3	69.4	70	N	-	-	18.5	Y	N	N
A1-2-11	35	134.5	A1-2	-	50.9	0	67.4	60.9	32.2	62.7	0	69.3	69.4	70	N	-	-	18.5	Y	N	N
A1-2-11	36	137.5	A1-2	-	50.9	0	67.4	60.9	32.1	62.8	0	69.3	69.4	70	N	-	-	18.5	Y	N	N
A1-2-12	1	32.5	A1-2	-	21.4	0	53.4	51.7	5.6	46	0	56.1	56.1	70	N	-	-	34.7	Y	N	N
A1-2-12	2	35.5	A1-2	-	21.8	0	57.2	56	7	46.7	0	59.8	59.9	70	N	-	-	38.1	Y	N	N
A1-2-12	3	38.5	A1-2	-	23	0	60.4	56.7	8.5	47.4	0	62.1	62.1	70	N	-	-	39.1	Y	N	N
A1-2-12	4	41.5	A1-2	-	24.9	0	61.9	57.4	10.1	48.3	0	63.3	63.3	70	N	-	-	38.4	Y	N	N
A1-2-12	5	44.5	A1-2	-	27.3	0	62.4	58.2	11.8	49.1	0	64	64.0	70	N	-	-	36.7	Y	N	N
A1-2-12	6	47.5	A1-2	-	30.2	0	62.7	58.9	13.4	50.1	0	64.4	64.4	70	N	-	-	34.2	Y	N	N
A1-2-12	7	50.5	A1-2	-	33.8	0	62.9	59.1	14.8	51.3	0	64.6	64.6	70	N	-	-	30.8	Y	N	N
A1-2-12	8	53.5	A1-2	-	38.1	0	63	59.3	16.3	52.5	0	64.8	64.8	70	N	-	-	26.7	Y	N	N
A1-2-12	9	56.5	A1-2	-	44.6	0	63.1	59.5	18.1	54.2	0	65.1	65.1	70	N	-	-	20.5	Y	N	N
A1-2-12	10	59.5	A1-2	-	49	0	63.3	59.6	20	56.1	0	65.4	65.5	70	N	-	-	16.5	Y	N	N
A1-2-12	11	62.5	A1-2	-	49.5	0	63.4	59.7	22.3	56.9	0	65.6	65.7	70	N	-	-	16.2	Y	N	N
A1-2-12	12	65.5	A1-2	-	49.8	0	63.6	59.9	25.2	57.3	0	65.8	65.9	70	N	-	-	16.1	Y	N	N
A1-2-12	13	68.5	A1-2	-	49.9	0	63.9	60	27.7	57.8	0	66.1	66.2	70	N	-	-	16.3	Y	N	N
A1-2-12	14	71.5	A1-2	-	50.1	0	64.3	60.2	29.3	58.2	0	66.4	66.5	70	N	-	-	16.4	Y	N	N
A1-2-12	15	74.5	A1-2	-	50.4	0	64.6	60.3	29.9	58.6	0	66.7	66.8	70	N	-	-	16.4	Y	N	N
A1-2-12	16	77.5	A1-2	-	50.5	0	64.9	60.4	30.2	58.9	0	67	67.1	70	N	-	-	16.6	Y	N	N
A1-2-12	17	80.5	A1-2	-	50.8	0	65.2	60.5	30.4	59.2	0	67.2	67.3	70	N	-	-	16.5	Y	N	N
A1-2-12	18	83.5	A1-2	-	50.8	0	65.4	60.6	30.5	59.5	0	67.4	67.5	70	N	-	-	16.7	Y	N	N
A1-2-12	19	86.5	A1-2	-	50.9	0	65.6	60.7	30.5	59.8	0	67.6	67.7	70	N	-	-	16.8	Y	N	N
A1-2-12	20	89.5	A1-2	-	51	0	66	60.7	30.6	60	0	67.9	68.0	70	N	-	-	17.0	Y	N	N
A1-2-12	21	92.5	A1-2	-	51.1	0	66.3	60.7	30.7	60.2	0	68.1	68.2	70	N	-	-	17.1	Y	N	N
A1-2-12	22	95.5	A1-2	-	51.1	0	66.7	60.7	30.7	60.4	0	68.4	68.5	70	N	-	-	17.4	Y	N	N
A1-2-12	23	98.5	A1-2	-	51	0	66.9	60.7	30.7	60.6	0	68.6	68.7	70	N	-	-	17.7	Y	N	N
A1-2-12	24	101.5	A1-2	-	51.1	0	67	60.8	30.8	60.8	0	68.7	68.8	70	N	-	-	17.7	Y	N	N
A1-2-12	25	104.5	A1-2	-	51.1	0	67.2	60.8	30.8	61.1	0	68.9	68.9	70	N	-	-	17.8	Y	N	N
A1-2-12	26	107.5	A1-2	-	51	0	67.3	60.8	30.8	61.3	0	69	69.1	70	N	-	-	18.1	Y	N	N
A1-2-12	27	110.5	A1-2	-	51.1	0	67.4	60.9	30.9	61.5	0	69.1	69.1	70	N	-	-	18.0	Y	N	N
A1-2-12	28	113.5	A1-2	-	51.1	0	67.4	60.9	30.9	61.6	0	69.1	69.2	70	N	-	-	18.1	Y	N	N
A1-2-12	29	116.5	A1-2	-	51.1	0	67.4	60.9	31	61.7	0	69.1	69.2	70	N	-	-	18.1	Y	N	N
A1-2-12	30	119.5	A1-2	-	51	0	67.4	60.9	30.9	61.8	0	69.2	69.2	70	N	-	-	18.2	Y	N	N
A1-2-12	31	122.5	A1-2	-	51	0	67.4	60.9	31	62	0	69.2	69.2	70	N	-	-	18.2	Y	N	N
A1-2-12	32	125.5	A1-2	-	51	0	67.4	60.9	31	62.2	0	69.2	69.3	70	N	-	-	18.3	Y	N	N
A1-2-12	33	128.5	A1-2	-	51	0	67.3	60.9	31	62.3	0	69.2	69.3	70	N	-	-	18.3	Y	N	N
A1-2-12	34	131.5	A1-2	-	50.9	0	67.3	60.9	31	62.5	0	69.2	69.3	70	N	-	-	18.4	Y	N	N
A1-2-12	35	134.5	A1-2	-	50.9	0	67.2	60.9	31.1	62.6	0	69.2	69.3	70	N	-	-	18.4	Y	N	N
A1-2-12	36	137.5	A1-2	-	50.9	0	67.2	60.8	31	62.8	0	69.2	69.3	70	N	-	-	18.4	Y	N	N
A1-2-13	1	32.5	A1-2	-	29.4	0	54.1	53.5	5.8	50.1	0	57.7	57.7	70	N	-	-	28.3	Y	N	N
A1-2-13	2	35.5	A1-2	-	31	0	58	57.7	7.1	50.9	0	61.3	61.3	70	N	-	-	30.3	Y	N	N
A1-2-13	3	38.5	A1-2	-	33	0	61	58.6	8.6	51.8	0	63.3	63.3	70	N	-	-	30.3	Y	N	N
A1-2-13	4	41.5	A1-2	-	35.6	0	62.3	59.5	10.2	52.8	0	64.5	64.5	70	N	-	-	28.9	Y	N	N
A1-2-13	5	44.5	A1-2	-	37.4	0	62.9	60.1	12	53.7	0	65.1	65.1	70	N	-	-	27.7	Y	N	N
A1-2-13	6	47.5	A1-2	-	38.9	0	63.2	60.6	13.8	54.8	0	65.5	65.5	70	N	-	-	26.6	Y	N	N
A1-2-13	7	50.5	A1-2	-	40.3	0	63.3	60.9	15.5	55.8	0	65.8	65.8	70	N	-	-	25.5	Y	N	N
A1-2-13	8	53.5	A1-2	-	42.3	0	63.5	61.1	17.3	56.8	0	66	66.0	70	N	-	-	23.7	Y	N	N
A1-2-13	9	56.5	A1-2	-	47.7	0	63.6	61.2	19.4	57.5	0	66.2	66.3	70	N	-	-	18.6	Y	N	N
A1-2-13	10	59.5	A1-2	-	49.3	0	63.8	61.3	21.9	58	0	66.4	66.5	70	N	-	-	17.2	Y	N	N
A1-2-13	11	62.5	A1-2	-	49.6	0	64	61.5	25.4	58.6	0	66.7	66.7	70	N	-	-	17.1	Y	N	N
A1-2-13	12	65.5	A1-2	-	49.8	0	64.2	61.7	28.2	59.2	0	66.9	67.0	70	N	-	-	17.2	Y	N	N
A1-2-13	13	68.5	A1-2	-	50.1	0	64.5	61.8	29.5	59.7	0	67.2	67.3	70	N	-	-	17.2	Y	N	N
A1-2-13	14	71.5	A1-2	-	50.2	0	64.8	61.8	30	60.2	0	67.5	67.6	70	N	-	-	17.4	Y	N	N
A1-2-13	15	74.5	A1-2	-	50.5	0	65.1	61.9	30.3	60.5	0	67.7	67.8	70	N	-	-	17.3	Y	N	N
A1-2-13	16	77.5	A1-2	-	50.7	0	65.3	61.9	30.4	60.9	0	67.9	68.0	70	N	-	-	17.3	Y	N	N
A1-2-13	17	80.5	A1-2	-	50.8	0	65.4	61.9	30.5	61.1	0	68	68.1	70	N	-	-	17.3	Y	N	N
A1-2-13	18	83.5	A1-2	-	51	0	65.6	61.9	30.6	61.3	0	68.1	68.2	70	N	-	-	17.2	Y	N	N
A1-2-13	19	86.5	A1-2	-	50.9	0	65.7	61.9	30.7	61.5	0	68.3	68.3	70	N	-	-	17.4	Y	N	N
A1-2-13	20	89.5	A1-2	-	51	0	65.9	61.8	30.7	61.8	0	68.4	68.5	70	N	-	-	17.5	Y	N	N
A1-2-13	21	92.5	A1-2	-	51	0	66.1	61.8	30.8	62.1	0	68.5	68.6	70	N	-	-	17.6	Y	N	N
A1-2-13	22	95.5	A1-2	-	51.1	0	66.3	61.8	30.8	62.3	0	68.7	68.8	70	N	-	-	17.7	Y	N	N
A1-2-13	23	98.5	A1-2	-	51.1	0	66.5	61.7	30.8	62.6	0	68.9	69.0	70	N	-	-	17.9	Y	N	N
A1-2-13	24	101.5	A1-2	-	51	0	66.6	61.6	30.8	62.9	0	69	69.1	70	N	-	-	18.1	Y	N	N
A1-2-13	25	104.5	A1-2	-	51.1	0	66.8	61.6	30.9	63.1	0	69.2	69.2	70	N	-	-	18.1	Y	N	N
A1-2-13	26	107.5	A1-2	-	51.1	0	66.9	61.5	31	63.3	0	69.3	69.4	70	N	-	-	18.3	Y	N	N
A1-2-13	27	110.5	A1-2	-	51.1	0	67	61.5	31	63.5	0	69.4	69.4	70	N	-	-	18.3	Y	N	N
A1-2-13	28	113.5	A1-2	-	51.1	0	67.1	61.5	31	63.6	0	69.5	69.5	70	N	-	-	18.4	Y	N	N
A1-2-13	29	116.5	A1-2	-	51.1	0	67.2	61.4	30.9	63.8	0	69.6	69.6	70	N	-	-	18.5	Y	N	N
A1-2-13	30	119.5	A1-2	-	51.1	0	67.2	61.4	31	64	0	69.6	69.7	70	N	-	-	18.6	Y	N	N
A1-2-13	31	122.5	A1-2	-	51.1	0	67.3	61.3	31	64.1	0	69.7	69.7	70	N	-	-	18.6	Y	N	N
A1-2-13	32	125.5	A1-2	-	51	0	67.3	61.3	31.1	64.2	0	69.7	69.8	70	N	-	-	18.8	Y	N	N
A1-2-13	33	128.5	A1-2	-	51	0	67.2	61.2	31.1	64.4	0	69.7	69.8	70	N	-	-	18.8	Y	N	N
A1-2-13	34	131.5	A1-2	-	51	0	67.2	61.1	31.1	64.5	0	69.7	69.8	70	N	-	-	18.8	Y	N	N
A1-2-13	35	134.5	A1-2	-	51	0	67.2	61	31	64.7	0	69.8	69.8	70	N	-	-	18.8	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	New Roads[2]					New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
ID	Floor	Floor Level (mPD)					PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
							dB (A)														
A1-2-13	36	137.5	A1-2	-	50.9	0	67.2	61	31	64.8	0	69.8	69.8	70	N	-	-	18.9	Y	N	N
A1-2-14	1	32.5	A1-2	-	35.5	0	54.6	53.9	5.8	50.1	0	58	58.0	70	N	-	-	22.5	Y	N	N
A1-2-14	2	35.5	A1-2	-	37.2	0	58.6	58.2	7.1	51	0	61.8	61.8	70	N	-	-	24.6	Y	N	N
A1-2-14	3	38.5	A1-2	-	39	0	61.6	59.1	8.6	51.8	0	63.8	63.8	70	N	-	-	24.8	Y	N	N
A1-2-14	4	41.5	A1-2	-	41.3	0	62.7	60.1	10.2	52.7	0	64.9	64.9	70	N	-	-	23.6	Y	N	N
A1-2-14	5	44.5	A1-2	-	43.8	0	63.3	60.6	12	53.7	0	65.5	65.5	70	N	-	-	21.7	Y	N	N
A1-2-14	6	47.5	A1-2	-	46.2	0	63.6	61	14	54.8	0	65.8	65.9	70	N	-	-	19.7	Y	N	N
A1-2-14	7	50.5	A1-2	-	47.8	0	63.7	61.4	15.6	55.9	0	66.2	66.2	70	N	-	-	18.4	Y	N	N
A1-2-14	8	53.5	A1-2	-	48.6	0	63.9	61.6	17.5	56.8	0	66.4	66.5	70	N	-	-	17.9	Y	N	N
A1-2-14	9	56.5	A1-2	-	49	0	64	61.7	19.8	57.4	0	66.6	66.6	70	N	-	-	17.6	Y	N	N
A1-2-14	10	59.5	A1-2	-	49.3	0	64.1	61.8	22.7	57.9	0	66.7	66.8	70	N	-	-	17.5	Y	N	N
A1-2-14	11	62.5	A1-2	-	49.5	0	64.3	62	25.9	58.5	0	67	67.1	70	N	-	-	17.6	Y	N	N
A1-2-14	12	65.5	A1-2	-	49.7	0	64.6	62.1	28.9	59	0	67.2	67.3	70	N	-	-	17.6	Y	N	N
A1-2-14	13	68.5	A1-2	-	50.1	0	64.8	62.2	29.8	59.5	0	67.5	67.5	70	N	-	-	17.4	Y	N	N
A1-2-14	14	71.5	A1-2	-	50.3	0	65	62.2	30.2	60	0	67.7	67.8	70	N	-	-	17.5	Y	N	N
A1-2-14	15	74.5	A1-2	-	50.5	0	65.3	62.2	30.4	60.4	0	67.9	68.0	70	N	-	-	17.5	Y	N	N
A1-2-14	16	77.5	A1-2	-	50.7	0	65.5	62.2	30.4	60.7	0	68	68.1	70	N	-	-	17.4	Y	N	N
A1-2-14	17	80.5	A1-2	-	50.8	0	65.6	62.1	30.5	60.9	0	68.1	68.2	70	N	-	-	17.4	Y	N	N
A1-2-14	18	83.5	A1-2	-	50.9	0	65.7	62.1	30.5	61.2	0	68.2	68.3	70	N	-	-	17.4	Y	N	N
A1-2-14	19	86.5	A1-2	-	51	0	65.8	62.1	30.6	61.4	0	68.3	68.4	70	N	-	-	17.4	Y	N	N
A1-2-14	20	89.5	A1-2	-	51	0	65.9	62	30.7	61.7	0	68.4	68.5	70	N	-	-	17.5	Y	N	N
A1-2-14	21	92.5	A1-2	-	51.1	0	66.1	62	30.8	61.9	0	68.6	68.7	70	N	-	-	17.6	Y	N	N
A1-2-14	22	95.5	A1-2	-	51	0	66.3	61.9	30.8	62.2	0	68.7	68.8	70	N	-	-	17.8	Y	N	N
A1-2-14	23	98.5	A1-2	-	51.1	0	66.4	61.8	30.9	62.5	0	68.8	68.9	70	N	-	-	17.8	Y	N	N
A1-2-14	24	101.5	A1-2	-	51.1	0	66.6	61.8	30.8	62.7	0	69	69.1	70	N	-	-	18.0	Y	N	N
A1-2-14	25	104.5	A1-2	-	51.1	0	66.7	61.7	30.9	63	0	69.1	69.2	70	N	-	-	18.1	Y	N	N
A1-2-14	26	107.5	A1-2	-	51.1	0	66.8	61.7	31	63.2	0	69.2	69.3	70	N	-	-	18.2	Y	N	N
A1-2-14	27	110.5	A1-2	-	51.1	0	66.9	61.6	31	63.3	0	69.3	69.4	70	N	-	-	18.3	Y	N	N
A1-2-14	28	113.5	A1-2	-	51.1	0	67	61.5	31	63.5	0	69.4	69.5	70	N	-	-	18.4	Y	N	N
A1-2-14	29	116.5	A1-2	-	51.1	0	67.2	61.5	31	63.6	0	69.5	69.6	70	N	-	-	18.5	Y	N	N
A1-2-14	30	119.5	A1-2	-	51.1	0	67.2	61.4	31.1	63.8	0	69.6	69.6	70	N	-	-	18.5	Y	N	N
A1-2-14	31	122.5	A1-2	-	51	0	67.3	61.4	31	64	0	69.6	69.7	70	N	-	-	18.7	Y	N	N
A1-2-14	32	125.5	A1-2	-	51.1	0	67.3	61.3	31	64.1	0	69.7	69.7	70	N	-	-	18.6	Y	N	N
A1-2-14	33	128.5	A1-2	-	51.1	0	67.2	61.2	31.1	64.3	0	69.7	69.7	70	N	-	-	18.6	Y	N	N
A1-2-14	34	131.5	A1-2	-	51	0	67.2	61.1	31.1	64.4	0	69.7	69.8	70	N	-	-	18.8	Y	N	N
A1-2-14	35	134.5	A1-2	-	51	0	67.2	61.1	31.1	64.6	0	69.7	69.8	70	N	-	-	18.8	Y	N	N
A1-2-14	36	137.5	A1-2	-	51	0	67.2	61	31	64.7	0	69.7	69.8	70	N	-	-	18.8	Y	N	N
A1-2-15	1	32.5	A1-2	-	35.1	0	55.1	56.5	6.8	50.1	0	59.4	59.4	70	N	-	-	24.3	Y	N	N
A1-2-15	2	35.5	A1-2	-	37	0	59.3	59.1	8.3	51	0	62.5	62.5	70	N	-	-	25.5	Y	N	N
A1-2-15	3	38.5	A1-2	-	38.8	0	62.2	59.9	9.8	51.8	0	64.5	64.5	70	N	-	-	25.7	Y	N	N
A1-2-15	4	41.5	A1-2	-	41.2	0	63.3	60.8	11.4	52.8	0	65.5	65.5	70	N	-	-	24.3	Y	N	N
A1-2-15	5	44.5	A1-2	-	44.4	0	63.8	61.3	13.2	53.8	0	66	66.0	70	N	-	-	21.6	Y	N	N
A1-2-15	6	47.5	A1-2	-	46.4	0	64	61.7	15.1	54.9	0	66.4	66.4	70	N	-	-	20.0	Y	N	N
A1-2-15	7	50.5	A1-2	-	47.8	0	64.2	62	16.9	55.9	0	66.7	66.7	70	N	-	-	18.9	Y	N	N
A1-2-15	8	53.5	A1-2	-	48.5	0	64.3	62.2	18.9	56.8	0	66.8	66.9	70	N	-	-	18.4	Y	N	N
A1-2-15	9	56.5	A1-2	-	48.8	0	64.4	62.3	21.3	57.5	0	67	67.1	70	N	-	-	18.3	Y	N	N
A1-2-15	10	59.5	A1-2	-	49.1	0	64.5	62.5	24.6	58.1	0	67.2	67.3	70	N	-	-	18.2	Y	N	N
A1-2-15	11	62.5	A1-2	-	49.4	0	64.7	62.6	28	58.6	0	67.4	67.5	70	N	-	-	18.1	Y	N	N
A1-2-15	12	65.5	A1-2	-	49.5	0	64.9	62.7	30	59.2	0	67.6	67.7	70	N	-	-	18.2	Y	N	N
A1-2-15	13	68.5	A1-2	-	49.8	0	65.1	62.7	30.6	59.6	0	67.8	67.9	70	N	-	-	18.1	Y	N	N
A1-2-15	14	71.5	A1-2	-	50	0	65.3	62.7	31	60.1	0	68	68.1	70	N	-	-	18.1	Y	N	N
A1-2-15	15	74.5	A1-2	-	50.3	0	65.5	62.7	31.1	60.5	0	68.2	68.2	70	N	-	-	17.9	Y	N	N
A1-2-15	16	77.5	A1-2	-	50.3	0	65.7	62.6	31.2	60.8	0	68.3	68.3	70	N	-	-	18.0	Y	N	N
A1-2-15	17	80.5	A1-2	-	50.4	0	65.7	62.5	31.3	61	0	68.3	68.4	70	N	-	-	18.0	Y	N	N
A1-2-15	18	83.5	A1-2	-	50.5	0	65.8	62.5	31.4	61.2	0	68.4	68.5	70	N	-	-	18.0	Y	N	N
A1-2-15	19	86.5	A1-2	-	50.6	0	65.9	62.4	31.5	61.5	0	68.5	68.6	70	N	-	-	18.0	Y	N	N
A1-2-15	20	89.5	A1-2	-	50.6	0	66.1	62.3	31.5	61.7	0	68.6	68.7	70	N	-	-	18.1	Y	N	N
A1-2-15	21	92.5	A1-2	-	50.6	0	66.2	62.2	31.6	62	0	68.7	68.8	70	N	-	-	18.2	Y	N	N
A1-2-15	22	95.5	A1-2	-	50.7	0	66.3	62.1	31.6	62.3	0	68.8	68.9	70	N	-	-	18.2	Y	N	N
A1-2-15	23	98.5	A1-2	-	50.6	0	66.4	62.1	31.7	62.5	0	68.9	69.0	70	N	-	-	18.4	Y	N	N
A1-2-15	24	101.5	A1-2	-	50.7	0	66.6	62	31.8	62.8	0	69.1	69.1	70	N	-	-	18.4	Y	N	N
A1-2-15	25	104.5	A1-2	-	50.6	0	66.8	61.9	31.8	63	0	69.2	69.3	70	N	-	-	18.7	Y	N	N
A1-2-15	26	107.5	A1-2	-	50.6	0	66.9	61.8	31.9	63.2	0	69.3	69.4	70	N	-	-	18.8	Y	N	N
A1-2-15	27	110.5	A1-2	-	50.6	0	67	61.8	31.9	63.4	0	69.4	69.5	70	N	-	-	18.9	Y	N	N
A1-2-15	28	113.5	A1-2	-	50.6	0	67.1	61.7	31.8	63.5	0	69.5	69.5	70	N	-	-	18.9	Y	N	N
A1-2-15	29	116.5	A1-2	-	50.7	0	67.2	61.6	31.9	63.7	0	69.6	69.6	70	N	-	-	18.9	Y	N	N
A1-2-15	30	119.5	A1-2	-	50.6	0	67.3	61.6	32	63.9	0	69.7	69.7	70	N	-	-	19.1	Y	N	N
A1-2-15	31	122.5	A1-2	-	50.6	0	67.3	61.5	32	64	0	69.7	69.8	70	N	-	-	19.2	Y	N	N
A1-2-15	32	125.5	A1-2	-	50.6	0	67.4	61.4	32.1	64.1	0	69.7	69.8	70	N	-	-	19.2	Y	N	N
A1-2-15	33	128.5	A1-2	-	50.5	0	67.3	61.3	32	64.3	0	69.7	69.8	70	N	-	-	19.3	Y	N	N
A1-2-15	34	131.5	A1-2	-	50.5	0	67.3	61.3	32	64.5	0	69.8	69.9	70	N	-	-	19.4	Y	N	N
A1-2-15	35	134.5	A1-2	-	50.5	0	67.3	61.2	32	64.6	0	69.8	69.8	70	N	-	-	19.3	Y	N	N
A1-2-15	36	137.5	A1-2	-	50.5	0	67.2	61.1	32	64.7	0	69.8	69.9	70	N	-	-	19.4	Y	N	N
A1-2-16	1	32.5	A1-2	-	35.3	0	55.8	57.1	21.3	50.1	0	60	60.0	70	N	-	-	24.7	Y	N	N
A1-2-16	2	35.5	A1-2	-	37.3	0	60.4	59.7	25.8	50.9	0	63.3	63.3	70	N	-	-	26.0	Y	N	N
A1-2-16	3	38.5	A1-2	-	39.5	0	63	60.7	26.8	51.8	0	65.2	65.3	70	N	-	-	25.8	Y	N	N
A1-2-16	4	41.5	A1-2	-	41.9	0	64	61.4	27	52.8	0	66.1	66.1	70	N	-	-	24.2	Y	N	N
A1-2-16	5	44.5	A1-2	-	44.6	0	64.4	61.8	27.2	53.9	0	66.5	66.6	70	N	-	-	22.0	Y	N	N
A1-2-16	6	47.5	A1-2	-	46.9	0	64.6	62.3	27.4	55	0	66.9	66.9	70	N	-	-	20.0	Y	N	N
A1-2-16	7	50.5	A1-2	-	48	0	64.8	62.6	27.6	56.1	0	67.2	67.2	70	N	-	-	19.2	Y	N	N
A1-2-16	8	53.5	A1-2	-	48.5	0	64.9	62.7	27.8	57	0	67.3	67.4	70	N	-	-	18.9	Y	N	N
A1-2-16	9	56.5	A1-2	-	48.8	0	64.9	62.9	28.2	57.7	0	67.5	67.6	70	N	-	-	18.8	Y	N	N
A1-2-16	10	59.5	A1-2	-	49.1	0	65.1	63	28.9	58.2	0	67.7	67.7	70	N	-	-	18.6	Y	N	N
A1-2-16	11	62.5	A1-2	-	49.3	0	65.1	63.1	30	58.8	0	67.8	67.9	70	N	-	-	18.6	Y	N	N
A1-2-16	12	65.5	A1-2	-	49.7	0	65.3	63.1	30.4	59.3	0	68	68.0	70	N	-	-	18.3	Y	N	N
A1-2-16	13	68.5	A1-2	-	49.8	0	65.4	63	30.7	59.8	0	68.1	68.2	70	N	-	-	18.4	Y	N	N
A1-2-16	14	71.5	A1-2	-	50	0	65.5	63	31	60.2	0	68.2	68.3	70	N	-	-	18.3	Y	N	N
A1-2-16	15	74.5	A1-2	-	50.2	0	65.7	62.9	31.1	60.6	0	68.3	68.4	70	N	-	-	18.2	Y	N	N
A1-2-16	16	77.5	A1-2	-	50.4	0	65.8	62.8	31.2	60.9	0	68.4	68.5	70	N	-	-	18.1	Y	N	N
A1-2-16	17	80.5	A1-2	-	50.5	0	65.8	62.7	31.3	61.1	0	68.4	68.5	70	N	-	-	18.0	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	New Roads[2]					New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
A1-2-16	18	83.5	A1-2	-	50.6	0	65.9	62.7	31.4	61.3	0	68.5	68.6	70	N	-	-	18.0	Y	N	N
A1-2-16	19	86.5	A1-2	-	50.5	0	66	62.5	31.5	61.5	0	68.6	68.7	70	N	-	-	18.2	Y	N	N
A1-2-16	20	89.5	A1-2	-	50.6	0	66.1	62.5	31.6	61.8	0	68.6	68.7	70	N	-	-	18.1	Y	N	N
A1-2-16	21	92.5	A1-2	-	50.7	0	66.2	62.3	31.6	62.1	0	68.7	68.8	70	N	-	-	18.1	Y	N	N
A1-2-16	22	95.5	A1-2	-	50.7	0	66.3	62.3	31.6	62.4	0	68.8	68.9	70	N	-	-	18.2	Y	N	N
A1-2-16	23	98.5	A1-2	-	50.7	0	66.4	62.2	31.7	62.7	0	68.9	69.0	70	N	-	-	18.3	Y	N	N
A1-2-16	24	101.5	A1-2	-	50.7	0	66.6	62	31.8	62.9	0	69.1	69.1	70	N	-	-	18.4	Y	N	N
A1-2-16	25	104.5	A1-2	-	50.7	0	66.8	62	31.8	63.1	0	69.2	69.3	70	N	-	-	18.6	Y	N	N
A1-2-16	26	107.5	A1-2	-	50.7	0	66.9	61.9	31.8	63.3	0	69.3	69.4	70	N	-	-	18.7	Y	N	N
A1-2-16	27	110.5	A1-2	-	50.7	0	67	61.8	31.9	63.4	0	69.4	69.4	70	N	-	-	18.7	Y	N	N
A1-2-16	28	113.5	A1-2	-	50.7	0	67.1	61.7	31.9	63.5	0	69.5	69.5	70	N	-	-	18.8	Y	N	N
A1-2-16	29	116.5	A1-2	-	50.6	0	67.1	61.7	31.9	63.8	0	69.6	69.6	70	N	-	-	19.0	Y	N	N
A1-2-16	30	119.5	A1-2	-	50.6	0	67.2	61.6	32	63.9	0	69.6	69.7	70	N	-	-	19.1	Y	N	N
A1-2-16	31	122.5	A1-2	-	50.6	0	67.3	61.5	32	64	0	69.7	69.7	70	N	-	-	19.1	Y	N	N
A1-2-16	32	125.5	A1-2	-	50.5	0	67.3	61.4	32	64.2	0	69.7	69.8	70	N	-	-	19.3	Y	N	N
A1-2-16	33	128.5	A1-2	-	50.6	0	67.3	61.3	32.1	64.3	0	69.8	69.8	70	N	-	-	19.2	Y	N	N
A1-2-16	34	131.5	A1-2	-	50.6	0	67.3	61.2	32	64.4	0	69.8	69.8	70	N	-	-	19.2	Y	N	N
A1-2-16	35	134.5	A1-2	-	50.6	0	67.3	61.1	32	64.6	0	69.8	69.8	70	N	-	-	19.2	Y	N	N
A1-2-16	36	137.5	A1-2	-	50.5	0	67.2	61.1	32	64.7	0	69.8	69.9	70	N	-	-	19.4	Y	N	N
A1-2-17	1	32.5	A1-2	-	35.3	0	56.8	57.9	24.1	50	0	60.8	60.8	70	N	-	-	25.5	Y	N	N
A1-2-17	2	35.5	A1-2	-	37.4	0	61.7	60.3	27.7	50.9	0	64.3	64.3	70	N	-	-	26.9	Y	N	N
A1-2-17	3	38.5	A1-2	-	39.7	0	63.9	61.3	28.4	51.8	0	66	66.0	70	N	-	-	26.3	Y	N	N
A1-2-17	4	41.5	A1-2	-	42.6	0	64.7	62	28.7	52.8	0	66.7	66.8	70	N	-	-	24.2	Y	N	N
A1-2-17	5	44.5	A1-2	-	45.5	0	65.1	62.3	28.8	53.9	0	67.1	67.2	70	N	-	-	21.7	Y	N	N
A1-2-17	6	47.5	A1-2	-	47.3	0	65.2	62.7	29.1	55	0	67.4	67.5	70	N	-	-	20.2	Y	N	N
A1-2-17	7	50.5	A1-2	-	48.1	0	65.4	63	29.3	56.1	0	67.7	67.7	70	N	-	-	19.6	Y	N	N
A1-2-17	8	53.5	A1-2	-	48.5	0	65.4	63.3	29.6	57	0	67.9	67.9	70	N	-	-	19.4	Y	N	N
A1-2-17	9	56.5	A1-2	-	48.8	0	65.5	63.4	29.8	57.7	0	68	68.1	70	N	-	-	19.3	Y	N	N
A1-2-17	10	59.5	A1-2	-	49	0	65.5	63.5	30.1	58.2	0	68.1	68.2	70	N	-	-	19.2	Y	N	N
A1-2-17	11	62.5	A1-2	-	49.3	0	65.6	63.5	30.4	58.8	0	68.2	68.3	70	N	-	-	19.0	Y	N	N
A1-2-17	12	65.5	A1-2	-	49.6	0	65.6	63.4	30.7	59.3	0	68.3	68.3	70	N	-	-	18.7	Y	N	N
A1-2-17	13	68.5	A1-2	-	49.9	0	65.7	63.3	30.9	59.8	0	68.3	68.4	70	N	-	-	18.5	Y	N	N
A1-2-17	14	71.5	A1-2	-	50.1	0	65.8	63.2	31.1	60.3	0	68.4	68.5	70	N	-	-	18.4	Y	N	N
A1-2-17	15	74.5	A1-2	-	50.2	0	65.9	63.1	31.1	60.6	0	68.5	68.5	70	N	-	-	18.3	Y	N	N
A1-2-17	16	77.5	A1-2	-	50.3	0	65.9	63	31.2	60.8	0	68.5	68.6	70	N	-	-	18.3	Y	N	N
A1-2-17	17	80.5	A1-2	-	50.4	0	66	62.8	31.3	61	0	68.5	68.6	70	N	-	-	18.2	Y	N	N
A1-2-17	18	83.5	A1-2	-	50.5	0	66.1	62.7	31.4	61.3	0	68.6	68.7	70	N	-	-	18.2	Y	N	N
A1-2-17	19	86.5	A1-2	-	50.6	0	66.1	62.6	31.5	61.6	0	68.7	68.7	70	N	-	-	18.1	Y	N	N
A1-2-17	20	89.5	A1-2	-	50.6	0	66.1	62.5	31.6	61.8	0	68.7	68.8	70	N	-	-	18.2	Y	N	N
A1-2-17	21	92.5	A1-2	-	50.6	0	66.2	62.4	31.7	62.1	0	68.8	68.8	70	N	-	-	18.2	Y	N	N
A1-2-17	22	95.5	A1-2	-	50.6	0	66.3	62.3	31.7	62.3	0	68.8	68.9	70	N	-	-	18.3	Y	N	N
A1-2-17	23	98.5	A1-2	-	50.7	0	66.4	62.2	31.8	62.6	0	69	69.0	70	N	-	-	18.3	Y	N	N
A1-2-17	24	101.5	A1-2	-	50.7	0	66.6	62.1	31.7	62.8	0	69.1	69.1	70	N	-	-	18.4	Y	N	N
A1-2-17	25	104.5	A1-2	-	50.7	0	66.7	61.9	31.8	63	0	69.2	69.3	70	N	-	-	18.6	Y	N	N
A1-2-17	26	107.5	A1-2	-	50.6	0	66.9	61.9	31.8	63.2	0	69.3	69.3	70	N	-	-	18.7	Y	N	N
A1-2-17	27	110.5	A1-2	-	50.6	0	67	61.8	31.9	63.4	0	69.4	69.4	70	N	-	-	18.8	Y	N	N
A1-2-17	28	113.5	A1-2	-	50.6	0	67	61.7	31.9	63.5	0	69.4	69.5	70	N	-	-	18.9	Y	N	N
A1-2-17	29	116.5	A1-2	-	50.7	0	67.1	61.6	32	63.7	0	69.5	69.6	70	N	-	-	18.9	Y	N	N
A1-2-17	30	119.5	A1-2	-	50.6	0	67.2	61.5	32	63.9	0	69.6	69.6	70	N	-	-	19.0	Y	N	N
A1-2-17	31	122.5	A1-2	-	50.6	0	67.2	61.5	32	64	0	69.6	69.7	70	N	-	-	19.1	Y	N	N
A1-2-17	32	125.5	A1-2	-	50.6	0	67.3	61.4	32	64.1	0	69.7	69.7	70	N	-	-	19.1	Y	N	N
A1-2-17	33	128.5	A1-2	-	50.6	0	67.3	61.3	32.1	64.3	0	69.7	69.8	70	N	-	-	19.2	Y	N	N
A1-2-17	34	131.5	A1-2	-	50.5	0	67.3	61.2	32.1	64.4	0	69.7	69.8	70	N	-	-	19.3	Y	N	N
A1-2-17	35	134.5	A1-2	-	50.5	0	67.2	61.1	32	64.6	0	69.8	69.8	70	N	-	-	19.3	Y	N	N
A1-2-17	36	137.5	A1-2	-	50.5	0	67.2	61	32	64.7	0	69.8	69.8	70	N	-	-	19.3	Y	N	N
A1-2-18	1	32.5	A1-2	-	35.6	0	58	59.2	24.9	49.8	0	61.9	61.9	70	N	-	-	26.3	Y	N	N
A1-2-18	2	35.5	A1-2	-	37.5	0	62.2	61.3	28.4	50.7	0	64.9	64.9	70	N	-	-	27.4	Y	N	N
A1-2-18	3	38.5	A1-2	-	39.9	0	64.3	62.2	29.1	51.7	0	66.5	66.5	70	N	-	-	26.6	Y	N	N
A1-2-18	4	41.5	A1-2	-	43.6	0	65	62.7	29.3	52.7	0	67.2	67.2	70	N	-	-	23.6	Y	N	N
A1-2-18	5	44.5	A1-2	-	46.6	0	65.3	63.1	29.4	53.8	0	67.5	67.6	70	N	-	-	21.0	Y	N	N
A1-2-18	6	47.5	A1-2	-	47.7	0	65.5	63.5	29.7	55	0	67.8	67.9	70	N	-	-	20.2	Y	N	N
A1-2-18	7	50.5	A1-2	-	48.2	0	65.6	63.7	29.9	56.1	0	68.1	68.1	70	N	-	-	19.9	Y	N	N
A1-2-18	8	53.5	A1-2	-	48.6	0	65.7	63.9	30.1	57	0	68.2	68.3	70	N	-	-	19.7	Y	N	N
A1-2-18	9	56.5	A1-2	-	48.9	0	65.8	63.9	30.2	57.7	0	68.4	68.4	70	N	-	-	19.5	Y	N	N
A1-2-18	10	59.5	A1-2	-	49.2	0	65.9	63.9	30.4	58.2	0	68.4	68.5	70	N	-	-	19.3	Y	N	N
A1-2-18	11	62.5	A1-2	-	49.3	0	66	63.7	30.6	58.8	0	68.5	68.5	70	N	-	-	19.2	Y	N	N
A1-2-18	12	65.5	A1-2	-	49.6	0	66	63.6	30.7	59.3	0	68.5	68.6	70	N	-	-	19.0	Y	N	N
A1-2-18	13	68.5	A1-2	-	49.8	0	66.1	63.4	31	59.8	0	68.6	68.6	70	N	-	-	18.8	Y	N	N
A1-2-18	14	71.5	A1-2	-	50.1	0	66.1	63.3	31.1	60.2	0	68.6	68.7	70	N	-	-	18.6	Y	N	N
A1-2-18	15	74.5	A1-2	-	50.2	0	66.2	63.1	31.2	60.5	0	68.7	68.7	70	N	-	-	18.5	Y	N	N
A1-2-18	16	77.5	A1-2	-	50.4	0	66.2	63	31.3	60.8	0	68.7	68.8	70	N	-	-	18.4	Y	N	N
A1-2-18	17	80.5	A1-2	-	50.5	0	66.3	62.9	31.4	61	0	68.7	68.8	70	N	-	-	18.3	Y	N	N
A1-2-18	18	83.5	A1-2	-	50.5	0	66.4	62.7	31.5	61.2	0	68.8	68.8	70	N	-	-	18.3	Y	N	N
A1-2-18	19	86.5	A1-2	-	50.5	0	66.4	62.6	31.5	61.5	0	68.8	68.8	70	N	-	-	18.3	Y	N	N
A1-2-18	20	89.5	A1-2	-	50.6	0	66.4	62.5	31.6	61.8	0	68.8	68.9	70	N	-	-	18.3	Y	N	N
A1-2-18	21	92.5	A1-2	-	50.6	0	66.4	62.3	31.7	62	0	68.9	68.9	70	N	-	-	18.3	Y	N	N
A1-2-18	22	95.5	A1-2	-	50.7	0	66.5	62.2	31.7	62.3	0	68.9	69.0	70	N	-	-	18.3	Y	N	N
A1-2-18	23	98.5	A1-2	-	50.7	0	66.6	62.1	31.7	62.6	0	69	69.1	70	N	-	-	18.4	Y	N	N
A1-2-18	24	101.5	A1-2	-	50.7	0	66.7	62	31.8	62.8	0	69.1	69.2	70	N	-	-	18.5	Y	N	N
A1-2-18	25	104.5	A1-2	-	50.7	0	66.7	61.8	31.9	63	0	69.2	69.2	70	N	-	-	18.5	Y	N	N
A1-2-18	26	107.5	A1-2	-	50.6	0	66.9	61.8	31.8	63.1	0	69.3	69.3	70	N	-	-	18.7	Y	N	N
A1-2-18	27	110.5	A1-2	-	50.7	0	67	61.6	31.9	63.2	0	69.3	69.4	70	N	-	-	18.7	Y	N	N
A1-2-18	28	113.5	A1-2	-	50.6	0	67	61.6	31.9	63.4	0	69.4	69.5	70	N	-	-	18.9	Y	N	N
A1-2-18	29	116.5	A1-2	-	50.6	0	67.1	61.5	32	63.6	0	69.5	69.5	70	N	-	-	18.9	Y	N	N
A1-2-18	30	119.5	A1-2	-	50.6	0	67.2	61.4	32	63.8	0	69.5	69.6	70	N	-	-	19.0	Y	N	N
A1-2-18	31	122.5	A1-2	-	50.7	0	67.2	61.3	32	63.9	0	69.6	69.7	70	N	-	-	19.0	Y	N	N
A1-2-18	32	125.5	A1-2	-	50.6	0	67.3	61.2	32	64.1	0	69.6	69.7	70	N	-	-	19.1	Y	N	N
A1-2-18	33	128.5	A1-2	-	50.6	0	67.3	61.1	32	64.2	0	69.7	69.7	70	N	-	-	19.1	Y	N	N
A1-2-18	34	131.5	A1-2	-	50.6	0	67.3	61	32	64.3	0	69.7	69.8	70	N	-	-	19.2	Y	N	N
A1-2-18	35	134.5	A1-2	-	50.6	0	67.3	60.9	32.1	64.5	0	69.7	69.8	70	N	-	-	19.2	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)															
A1-2-18	36	137.5	A1-2	-	50.5	0	67.3	60.8	32.1	64.7	0	69.8	69.8	70	N	-	-	19.3	Y	N	N
A1-2-19	1	32.5	A1-2	-	35.8	0	58.5	60.5	24.9	49.7	0	62.8	62.8	70	N	-	-	27.0	Y	N	N
A1-2-19	2	35.5	A1-2	-	37.7	0	62.5	61.9	28.4	50.6	0	65.4	65.4	70	N	-	-	27.7	Y	N	N
A1-2-19	3	38.5	A1-2	-	40.3	0	64.5	62.6	29	51.6	0	66.8	66.8	70	N	-	-	26.5	Y	N	N
A1-2-19	4	41.5	A1-2	-	44	0	65.2	63.1	29.3	52.6	0	67.5	67.5	70	N	-	-	23.5	Y	N	N
A1-2-19	5	44.5	A1-2	-	46.6	0	65.5	63.5	29.4	53.8	0	67.8	67.8	70	N	-	-	21.2	Y	N	N
A1-2-19	6	47.5	A1-2	-	47.7	0	65.7	63.9	29.6	55	0	68.1	68.2	70	N	-	-	20.5	Y	N	N
A1-2-19	7	50.5	A1-2	-	48.2	0	65.8	64.1	29.9	56.2	0	68.3	68.3	70	N	-	-	20.1	Y	N	N
A1-2-19	8	53.5	A1-2	-	48.5	0	65.9	64.1	30.1	57	0	68.4	68.5	70	N	-	-	20.0	Y	N	N
A1-2-19	9	56.5	A1-2	-	48.8	0	66	64	30.3	57.7	0	68.5	68.6	70	N	-	-	19.8	Y	N	N
A1-2-19	10	59.5	A1-2	-	49.1	0	66.1	63.9	30.5	58.2	0	68.6	68.6	70	N	-	-	19.5	Y	N	N
A1-2-19	11	62.5	A1-2	-	49.4	0	66.1	63.7	30.7	58.8	0	68.6	68.6	70	N	-	-	19.2	Y	N	N
A1-2-19	12	65.5	A1-2	-	49.7	0	66.2	63.5	30.8	59.3	0	68.6	68.7	70	N	-	-	19.0	Y	N	N
A1-2-19	13	68.5	A1-2	-	50	0	66.2	63.4	30.9	59.8	0	68.6	68.7	70	N	-	-	18.7	Y	N	N
A1-2-19	14	71.5	A1-2	-	50.1	0	66.2	63.2	31.1	60.2	0	68.7	68.7	70	N	-	-	18.6	Y	N	N
A1-2-19	15	74.5	A1-2	-	50.2	0	66.3	63.1	31.2	60.5	0	68.7	68.8	70	N	-	-	18.6	Y	N	N
A1-2-19	16	77.5	A1-2	-	50.3	0	66.3	62.9	31.3	60.7	0	68.7	68.8	70	N	-	-	18.5	Y	N	N
A1-2-19	17	80.5	A1-2	-	50.4	0	66.4	62.8	31.4	61	0	68.7	68.8	70	N	-	-	18.4	Y	N	N
A1-2-19	18	83.5	A1-2	-	50.5	0	66.4	62.6	31.5	61.3	0	68.8	68.8	70	N	-	-	18.3	Y	N	N
A1-2-19	19	86.5	A1-2	-	50.6	0	66.4	62.5	31.5	61.5	0	68.8	68.9	70	N	-	-	18.3	Y	N	N
A1-2-19	20	89.5	A1-2	-	50.6	0	66.5	62.3	31.7	61.8	0	68.8	68.9	70	N	-	-	18.3	Y	N	N
A1-2-19	21	92.5	A1-2	-	50.6	0	66.5	62.2	31.7	62	0	68.9	68.9	70	N	-	-	18.3	Y	N	N
A1-2-19	22	95.5	A1-2	-	50.6	0	66.5	62.1	31.7	62.3	0	68.9	69.0	70	N	-	-	18.4	Y	N	N
A1-2-19	23	98.5	A1-2	-	50.7	0	66.6	61.9	31.8	62.5	0	69	69.0	70	N	-	-	18.3	Y	N	N
A1-2-19	24	101.5	A1-2	-	50.7	0	66.6	61.8	31.8	62.7	0	69	69.1	70	N	-	-	18.4	Y	N	N
A1-2-19	25	104.5	A1-2	-	50.8	0	66.7	61.7	31.9	62.9	0	69.1	69.2	70	N	-	-	18.4	Y	N	N
A1-2-19	26	107.5	A1-2	-	50.7	0	66.8	61.6	31.9	63.1	0	69.2	69.2	70	N	-	-	18.5	Y	N	N
A1-2-19	27	110.5	A1-2	-	50.7	0	66.9	61.5	31.9	63.2	0	69.3	69.3	70	N	-	-	18.6	Y	N	N
A1-2-19	28	113.5	A1-2	-	50.7	0	67	61.4	31.9	63.4	0	69.3	69.4	70	N	-	-	18.7	Y	N	N
A1-2-19	29	116.5	A1-2	-	50.8	0	67.1	61.3	32	63.5	0	69.4	69.5	70	N	-	-	18.7	Y	N	N
A1-2-19	30	119.5	A1-2	-	50.7	0	67.1	61.3	32	63.7	0	69.5	69.5	70	N	-	-	18.8	Y	N	N
A1-2-19	31	122.5	A1-2	-	50.7	0	67.1	61.2	32.1	63.8	0	69.5	69.5	70	N	-	-	18.8	Y	N	N
A1-2-19	32	125.5	A1-2	-	50.7	0	67.2	61.1	32.1	64	0	69.6	69.6	70	N	-	-	18.9	Y	N	N
A1-2-19	33	128.5	A1-2	-	50.7	0	67.3	60.9	32.1	64.1	0	69.6	69.7	70	N	-	-	19.0	Y	N	N
A1-2-19	34	131.5	A1-2	-	50.7	0	67.3	60.8	32	64.3	0	69.7	69.7	70	N	-	-	19.0	Y	N	N
A1-2-19	35	134.5	A1-2	-	50.9	0	67.3	60.8	32	64.4	0	69.7	69.7	70	N	-	-	18.8	Y	N	N
A1-2-19	36	137.5	A1-2	-	51	0	67.3	60.7	32.1	64.6	0	69.7	69.8	70	N	-	-	18.8	Y	N	N
A1-2-20	1	32.5	A1-2	-	35.8	0	59	61.3	24.8	49.5	0	63.5	63.5	70	N	-	-	27.7	Y	N	N
A1-2-20	2	35.5	A1-2	-	37.8	0	62.8	62.2	28.3	50.4	0	65.6	65.6	70	N	-	-	27.8	Y	N	N
A1-2-20	3	38.5	A1-2	-	40.3	0	64.7	62.7	28.9	51.4	0	67	67.0	70	N	-	-	26.7	Y	N	N
A1-2-20	4	41.5	A1-2	-	44	0	65.4	63.3	29.2	52.5	0	67.6	67.6	70	N	-	-	23.6	Y	N	N
A1-2-20	5	44.5	A1-2	-	46.6	0	65.7	63.8	29.4	53.7	0	68	68.0	70	N	-	-	21.4	Y	N	N
A1-2-20	6	47.5	A1-2	-	47.7	0	65.8	64	29.6	55	0	68.3	68.3	70	N	-	-	20.6	Y	N	N
A1-2-20	7	50.5	A1-2	-	48.1	0	66	64.1	29.9	56.1	0	68.4	68.4	70	N	-	-	20.3	Y	N	N
A1-2-20	8	53.5	A1-2	-	48.6	0	66.1	64	30.1	56.9	0	68.5	68.5	70	N	-	-	19.9	Y	N	N
A1-2-20	9	56.5	A1-2	-	48.9	0	66.1	63.8	30.3	57.6	0	68.5	68.5	70	N	-	-	19.6	Y	N	N
A1-2-20	10	59.5	A1-2	-	49.1	0	66.2	63.6	30.5	58.2	0	68.5	68.6	70	N	-	-	19.5	Y	N	N
A1-2-20	11	62.5	A1-2	-	49.5	0	66.3	63.4	30.7	58.8	0	68.6	68.6	70	N	-	-	19.1	Y	N	N
A1-2-20	12	65.5	A1-2	-	49.7	0	66.3	63.2	30.8	59.3	0	68.6	68.6	70	N	-	-	18.9	Y	N	N
A1-2-20	13	68.5	A1-2	-	49.9	0	66.3	63.1	31	59.8	0	68.6	68.7	70	N	-	-	18.8	Y	N	N
A1-2-20	14	71.5	A1-2	-	50	0	66.3	62.9	31.2	60.1	0	68.6	68.7	70	N	-	-	18.7	Y	N	N
A1-2-20	15	74.5	A1-2	-	50.2	0	66.4	62.7	31.3	60.4	0	68.6	68.7	70	N	-	-	18.5	Y	N	N
A1-2-20	16	77.5	A1-2	-	50.3	0	66.4	62.6	31.3	60.7	0	68.7	68.7	70	N	-	-	18.4	Y	N	N
A1-2-20	17	80.5	A1-2	-	50.4	0	66.4	62.4	31.4	60.9	0	68.7	68.8	70	N	-	-	18.4	Y	N	N
A1-2-20	18	83.5	A1-2	-	50.4	0	66.4	62.3	31.4	61.2	0	68.7	68.8	70	N	-	-	18.4	Y	N	N
A1-2-20	19	86.5	A1-2	-	50.5	0	66.5	62.1	31.5	61.4	0	68.7	68.8	70	N	-	-	18.3	Y	N	N
A1-2-20	20	89.5	A1-2	-	50.6	0	66.5	62	31.7	61.7	0	68.8	68.8	70	N	-	-	18.2	Y	N	N
A1-2-20	21	92.5	A1-2	-	50.6	0	66.5	61.8	31.7	62	0	68.8	68.9	70	N	-	-	18.3	Y	N	N
A1-2-20	22	95.5	A1-2	-	50.7	0	66.5	61.7	31.8	62.2	0	68.8	68.9	70	N	-	-	18.2	Y	N	N
A1-2-20	23	98.5	A1-2	-	50.7	0	66.5	61.6	31.9	62.5	0	68.9	68.9	70	N	-	-	18.2	Y	N	N
A1-2-20	24	101.5	A1-2	-	50.7	0	66.6	61.4	31.8	62.7	0	68.9	69.0	70	N	-	-	18.3	Y	N	N
A1-2-20	25	104.5	A1-2	-	50.7	0	66.6	61.4	31.8	62.8	0	69	69.0	70	N	-	-	18.3	Y	N	N
A1-2-20	26	107.5	A1-2	-	50.7	0	66.7	61.3	31.9	63	0	69	69.1	70	N	-	-	18.4	Y	N	N
A1-2-20	27	110.5	A1-2	-	50.7	0	66.8	61.1	31.9	63.1	0	69.1	69.2	70	N	-	-	18.5	Y	N	N
A1-2-20	28	113.5	A1-2	-	50.7	0	66.9	61.1	32	63.3	0	69.2	69.3	70	N	-	-	18.6	Y	N	N
A1-2-20	29	116.5	A1-2	-	50.7	0	67	61	32	63.5	0	69.3	69.3	70	N	-	-	18.6	Y	N	N
A1-2-20	30	119.5	A1-2	-	50.6	0	67	60.8	32	63.6	0	69.3	69.4	70	N	-	-	18.8	Y	N	N
A1-2-20	31	122.5	A1-2	-	50.6	0	67	60.8	32	63.7	0	69.4	69.4	70	N	-	-	18.8	Y	N	N
A1-2-20	32	125.5	A1-2	-	50.7	0	67.1	60.7	32.1	63.9	0	69.4	69.5	70	N	-	-	18.8	Y	N	N
A1-2-20	33	128.5	A1-2	-	50.6	0	67.2	60.6	32.1	64	0	69.5	69.5	70	N	-	-	18.9	Y	N	N
A1-2-20	34	131.5	A1-2	-	50.7	0	67.2	60.5	32.1	64.2	0	69.5	69.6	70	N	-	-	18.9	Y	N	N
A1-2-20	35	134.5	A1-2	-	50.7	0	67.2	60.3	32	64.4	0	69.6	69.6	70	N	-	-	18.9	Y	N	N
A1-2-20	36	137.5	A1-2	-	50.8	0	67.2	60.3	32	64.6	0	69.7	69.7	70	N	-	-	18.9	Y	N	N
A1-2-21	1	32.5	A1-2	-	36.5	0	63.7	70.3	45.9	49.6	0	71.2	71.2	70	Y	-	-	34.7	Y	Y	Y
A1-2-21	2	35.5	A1-2	-	38.4	0	64.9	70.1	45.6	50.5	0	71.3	71.3	70	Y	-	-	32.9	Y	Y	Y
A1-2-21	3	38.5	A1-2	-	40.9	0	66	69.8	45.3	51.4	0	71.4	71.4	70	Y	-	-	30.5	Y	Y	Y
A1-2-21	4	41.5	A1-2	-	43.9	0	66.2	69.4	44.9	52.5	0	71.2	71.2	70	Y	-	-	27.3	Y	Y	Y
A1-2-21	5	44.5	A1-2	-	46.9	0	66.3	69.1	44.6	53.7	0	71	71.0	70	Y	-	-	24.1	Y	Y	Y
A1-2-21	6	47.5	A1-2	-	47.7	0	66.3	68.7	44.4	55	0	70.8	70.8	70	Y	-	-	23.1	Y	Y	Y
A1-2-21	7	50.5	A1-2	-	48.2	0	66.4	68.3	44.1	56.1	0	70.6	70.7	70	Y	-	-	22.5	Y	Y	Y
A1-2-21	8	53.5	A1-2	-	48.6	0	66.4	68	43.8	56.8	0	70.5	70.5	70	Y	-	-	21.9	Y	Y	Y
A1-2-21	9	56.5	A1-2	-	49	0	66.5	67.7	43.5	57.5	0	70.4	70.4	70	N	-	-	21.4	Y	N	N
A1-2-21	10	59.5	A1-2	-	49.3	0	66.5	67.4	43.2	58.1	0	70.3	70.3	70	N	-	-	21.0	Y	N	N
A1-2-21	11	62.5	A1-2	-	49.6	0	66.5	67.1	43.1	58.7	0	70.1	70.2	70	N	-	-	20.6	Y	N	N
A1-2-21	12	65.5	A1-2	-	49.8	0	66.5	66.9	42.8	59.2	0	70.1	70.1	70	N	-	-	20.3	Y	N	N
A1-2-21	13	68.5	A1-2	-	50	0	66.5	66.6	42.6	59.7	0	70	70.0	70	N	-	-	20.0	Y	N	N
A1-2-21	14	71.5	A1-2	-	50.1	0	66.5	66.4	42.4	60	0	69.9	70.0	70	N	-	-	19.9	Y	N	N
A1-2-21	15	74.5	A1-2	-	50.3	0	66.5	66.2	42.2	60.2	0	69.8	69.9	70	N	-	-	19.6	Y	N	N
A1-2-21	16	77.5	A1-2	-	50.3	0	66.5	66	42	60.5	0	69.8	69.8	70	N	-	-	19.5	Y	N	N
A1-2-21	17	80.5	A1-2	-	50.4	0	66.4	65.8	41.8	60.8	0	69.7	69.8	70	N	-	-	19.4	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)															
A1-2-21	18	83.5	A1-2	-	50.5	0	66.4	65.6	41.7	61	0	69.7	69.7	70	N	-	-	19.2	Y	N	N
A1-2-21	19	86.5	A1-2	-	50.6	0	66.4	65.4	41.5	61.3	0	69.6	69.7	70	N	-	-	19.1	Y	N	N
A1-2-21	20	89.5	A1-2	-	50.6	0	66.4	65.2	41.4	61.6	0	69.6	69.6	70	N	-	-	19.0	Y	N	N
A1-2-21	21	92.5	A1-2	-	50.7	0	66.3	65.1	41.2	61.7	0	69.6	69.6	70	N	-	-	18.9	Y	N	N
A1-2-21	22	95.5	A1-2	-	50.6	0	66.3	64.9	41.1	62	0	69.5	69.6	70	N	-	-	19.0	Y	N	N
A1-2-21	23	98.5	A1-2	-	50.6	0	66.3	64.8	41	62.2	0	69.5	69.6	70	N	-	-	19.0	Y	N	N
A1-2-21	24	101.5	A1-2	-	50.7	0	66.3	64.7	40.9	62.3	0	69.5	69.5	70	N	-	-	18.8	Y	N	N
A1-2-21	25	104.5	A1-2	-	50.8	0	66.2	64.5	40.8	62.5	0	69.4	69.5	70	N	-	-	18.7	Y	N	N
A1-2-21	26	107.5	A1-2	-	50.8	0	66.3	64.4	40.7	62.7	0	69.5	69.5	70	N	-	-	18.7	Y	N	N
A1-2-21	27	110.5	A1-2	-	50.7	0	66.3	64.2	40.6	62.9	0	69.5	69.5	70	N	-	-	18.8	Y	N	N
A1-2-21	28	113.5	A1-2	-	50.7	0	66.3	64.1	40.5	63	0	69.5	69.5	70	N	-	-	18.8	Y	N	N
A1-2-21	29	116.5	A1-2	-	50.7	0	66.3	63.9	40.5	63.2	0	69.5	69.5	70	N	-	-	18.8	Y	N	N
A1-2-21	30	119.5	A1-2	-	50.8	0	66.4	63.8	40.7	63.4	0	69.5	69.6	70	N	-	-	18.8	Y	N	N
A1-2-21	31	122.5	A1-2	-	50.9	0	66.3	63.8	40.9	63.5	0	69.5	69.6	70	N	-	-	18.7	Y	N	N
A1-2-21	32	125.5	A1-2	-	50.9	0	66.4	63.7	41.3	63.7	0	69.6	69.6	70	N	-	-	18.7	Y	N	N
A1-2-21	33	128.5	A1-2	-	51.1	0	66.4	63.5	42.4	63.9	0	69.6	69.6	70	N	-	-	18.5	Y	N	N
A1-2-21	34	131.5	A1-2	-	51.3	0	66.4	63.4	44.5	64.2	0	69.6	69.7	70	N	-	-	18.4	Y	N	N
A1-2-21	35	134.5	A1-2	-	51.6	0	66.5	63.3	45.8	64.6	0	69.8	69.9	70	N	-	-	18.3	Y	N	N
A1-2-21	36	137.5	A1-2	-	52.3	0	66.6	63.2	46.3	65.2	0	70	70.1	70	N	-	-	17.8	Y	N	N
A1-2-22	1	32.5	A1-2	-	36.5	0	63.8	70.5	46	49.4	0	71.4	71.4	70	Y	-	-	34.9	Y	Y	Y
A1-2-22	2	35.5	A1-2	-	38.4	0	64.7	70.2	45.7	50.3	0	71.3	71.3	70	Y	-	-	32.9	Y	Y	Y
A1-2-22	3	38.5	A1-2	-	40.8	0	65.7	69.8	45.3	51.2	0	71.3	71.3	70	Y	-	-	30.5	Y	Y	Y
A1-2-22	4	41.5	A1-2	-	43.8	0	66	69.4	45	52.3	0	71.1	71.1	70	Y	-	-	27.3	Y	Y	Y
A1-2-22	5	44.5	A1-2	-	46.7	0	66.1	69	44.7	53.5	0	70.9	70.9	70	Y	-	-	24.2	Y	Y	Y
A1-2-22	6	47.5	A1-2	-	47.6	0	66.2	68.6	44.3	54.8	0	70.7	70.7	70	Y	-	-	23.1	Y	Y	Y
A1-2-22	7	50.5	A1-2	-	48.1	0	66.2	68.3	44.1	55.9	0	70.5	70.5	70	Y	-	-	22.4	Y	Y	Y
A1-2-22	8	53.5	A1-2	-	48.5	0	66.2	67.9	43.8	56.6	0	70.4	70.4	70	N	-	-	21.9	Y	N	N
A1-2-22	9	56.5	A1-2	-	49	0	66.3	67.6	43.5	57.3	0	70.2	70.3	70	N	-	-	21.3	Y	N	N
A1-2-22	10	59.5	A1-2	-	49.4	0	66.3	67.3	43.2	57.9	0	70.1	70.2	70	N	-	-	20.8	Y	N	N
A1-2-22	11	62.5	A1-2	-	49.6	0	66.3	67	43.1	58.5	0	70	70.0	70	N	-	-	20.4	Y	N	N
A1-2-22	12	65.5	A1-2	-	49.8	0	66.3	66.8	42.8	59	0	69.9	70.0	70	N	-	-	20.2	Y	N	N
A1-2-22	13	68.5	A1-2	-	49.9	0	66.3	66.5	42.6	59.4	0	69.8	69.9	70	N	-	-	20.0	Y	N	N
A1-2-22	14	71.5	A1-2	-	50	0	66.3	66.3	42.4	59.7	0	69.8	69.8	70	N	-	-	19.8	Y	N	N
A1-2-22	15	74.5	A1-2	-	50.2	0	66.2	66.1	42.2	60	0	69.7	69.7	70	N	-	-	19.5	Y	N	N
A1-2-22	16	77.5	A1-2	-	50.3	0	66.2	65.9	42	60.3	0	69.6	69.7	70	N	-	-	19.4	Y	N	N
A1-2-22	17	80.5	A1-2	-	50.4	0	66.2	65.7	41.8	60.5	0	69.6	69.6	70	N	-	-	19.2	Y	N	N
A1-2-22	18	83.5	A1-2	-	50.5	0	66.2	65.5	41.6	60.8	0	69.5	69.6	70	N	-	-	19.1	Y	N	N
A1-2-22	19	86.5	A1-2	-	50.6	0	66.1	65.3	41.5	61	0	69.5	69.5	70	N	-	-	18.9	Y	N	N
A1-2-22	20	89.5	A1-2	-	50.6	0	66.1	65.2	41.4	61.3	0	69.4	69.5	70	N	-	-	18.9	Y	N	N
A1-2-22	21	92.5	A1-2	-	50.5	0	66.1	65.1	41.2	61.5	0	69.4	69.4	70	N	-	-	18.9	Y	N	N
A1-2-22	22	95.5	A1-2	-	50.6	0	66	64.9	41.1	61.8	0	69.3	69.4	70	N	-	-	18.8	Y	N	N
A1-2-22	23	98.5	A1-2	-	50.6	0	66	64.7	41	62	0	69.3	69.4	70	N	-	-	18.8	Y	N	N
A1-2-22	24	101.5	A1-2	-	50.7	0	66	64.6	40.8	62.1	0	69.3	69.3	70	N	-	-	18.6	Y	N	N
A1-2-22	25	104.5	A1-2	-	50.8	0	65.9	64.4	40.8	62.3	0	69.2	69.3	70	N	-	-	18.5	Y	N	N
A1-2-22	26	107.5	A1-2	-	50.7	0	65.9	64.3	40.6	62.5	0	69.2	69.3	70	N	-	-	18.6	Y	N	N
A1-2-22	27	110.5	A1-2	-	50.7	0	65.9	64.1	40.6	62.7	0	69.2	69.3	70	N	-	-	18.6	Y	N	N
A1-2-22	28	113.5	A1-2	-	50.7	0	65.9	64	40.5	62.8	0	69.2	69.3	70	N	-	-	18.6	Y	N	N
A1-2-22	29	116.5	A1-2	-	50.8	0	65.9	63.8	40.5	62.9	0	69.2	69.2	70	N	-	-	18.4	Y	N	N
A1-2-22	30	119.5	A1-2	-	50.8	0	65.9	63.8	40.6	63.1	0	69.2	69.3	70	N	-	-	18.5	Y	N	N
A1-2-22	31	122.5	A1-2	-	50.8	0	65.8	63.7	40.7	63.3	0	69.2	69.3	70	N	-	-	18.5	Y	N	N
A1-2-22	32	125.5	A1-2	-	50.9	0	65.8	63.6	41	63.5	0	69.2	69.3	70	N	-	-	18.4	Y	N	N
A1-2-22	33	128.5	A1-2	-	51.1	0	65.8	63.4	41.9	63.7	0	69.2	69.3	70	N	-	-	18.2	Y	N	N
A1-2-22	34	131.5	A1-2	-	51.4	0	65.8	63.3	43.7	64	0	69.3	69.4	70	N	-	-	18.0	Y	N	N
A1-2-22	35	134.5	A1-2	-	51.8	0	65.9	63.2	44.9	64.4	0	69.4	69.5	70	N	-	-	17.7	Y	N	N
A1-2-22	36	137.5	A1-2	-	52.7	0	65.9	63.1	45.5	65	0	69.6	69.7	70	N	-	-	17.0	Y	N	N
A1-2-23	1	32.5	A1-2	-	36.4	0	63.6	70.4	48.7	49.2	0	71.3	71.3	70	Y	-	-	34.9	Y	Y	Y
A1-2-23	2	35.5	A1-2	-	38.3	0	64.5	70.1	48.3	50	0	71.2	71.2	70	Y	-	-	32.9	Y	Y	Y
A1-2-23	3	38.5	A1-2	-	40.7	0	65.5	69.7	47.9	51	0	71.2	71.2	70	Y	-	-	30.5	Y	Y	Y
A1-2-23	4	41.5	A1-2	-	43.8	0	65.8	69.4	47.6	52.1	0	71	71.0	70	Y	-	-	27.2	Y	Y	Y
A1-2-23	5	44.5	A1-2	-	46.5	0	65.9	68.9	47.1	53.3	0	70.8	70.8	70	Y	-	-	24.3	Y	Y	Y
A1-2-23	6	47.5	A1-2	-	47.5	0	66	68.6	46.8	54.6	0	70.6	70.6	70	Y	-	-	23.1	Y	Y	Y
A1-2-23	7	50.5	A1-2	-	48	0	66	68.2	46.5	55.7	0	70.4	70.5	70	Y	-	-	22.5	Y	N	Y
A1-2-23	8	53.5	A1-2	-	48.5	0	66.1	67.9	46.2	56.4	0	70.3	70.3	70	N	-	-	21.8	Y	N	N
A1-2-23	9	56.5	A1-2	-	48.9	0	66.1	67.6	45.9	57	0	70.1	70.2	70	N	-	-	21.3	Y	N	N
A1-2-23	10	59.5	A1-2	-	49.4	0	66.1	67.3	45.6	57.6	0	70	70.1	70	N	-	-	20.7	Y	N	N
A1-2-23	11	62.5	A1-2	-	49.6	0	66.1	67	45.4	58.2	0	69.9	69.9	70	N	-	-	20.3	Y	N	N
A1-2-23	12	65.5	A1-2	-	49.7	0	66.1	66.8	45.1	58.6	0	69.8	69.9	70	N	-	-	20.2	Y	N	N
A1-2-23	13	68.5	A1-2	-	49.9	0	66.1	66.5	44.9	59	0	69.7	69.8	70	N	-	-	19.9	Y	N	N
A1-2-23	14	71.5	A1-2	-	50	0	66.1	66.3	44.7	59.3	0	69.7	69.7	70	N	-	-	19.7	Y	N	N
A1-2-23	15	74.5	A1-2	-	50.1	0	66.1	66.1	44.5	59.6	0	69.6	69.6	70	N	-	-	19.5	Y	N	N
A1-2-23	16	77.5	A1-2	-	50.3	0	66.1	65.9	44.2	59.9	0	69.5	69.6	70	N	-	-	19.3	Y	N	N
A1-2-23	17	80.5	A1-2	-	50.4	0	66	65.7	44	60.1	0	69.4	69.5	70	N	-	-	19.1	Y	N	N
A1-2-23	18	83.5	A1-2	-	50.5	0	66	65.5	43.9	60.4	0	69.4	69.4	70	N	-	-	18.9	Y	N	N
A1-2-23	19	86.5	A1-2	-	50.5	0	66	65.3	43.7	60.7	0	69.3	69.4	70	N	-	-	18.9	Y	N	N
A1-2-23	20	89.5	A1-2	-	50.5	0	65.9	65.1	43.6	61	0	69.3	69.3	70	N	-	-	18.8	Y	N	N
A1-2-23	21	92.5	A1-2	-	50.5	0	65.9	65	43.4	61.2	0	69.2	69.3	70	N	-	-	18.8	Y	N	N
A1-2-23	22	95.5	A1-2	-	50.6	0	65.9	64.8	43.2	61.4	0	69.2	69.3	70	N	-	-	18.7	Y	N	N
A1-2-23	23	98.5	A1-2	-	50.6	0	65.8	64.7	43.1	61.6	0	69.2	69.2	70	N	-	-	18.6	Y	N	N
A1-2-23	24	101.5	A1-2	-	50.7	0	65.8	64.6	43	61.8	0	69.1	69.2	70	N	-	-	18.5	Y	N	N
A1-2-23	25	104.5	A1-2	-	50.6	0	65.8	64.4	42.9	62	0	69.1	69.1	70	N	-	-	18.5	Y	N	N
A1-2-23	26	107.5	A1-2	-	50.7	0	65.7	64.3	42.7	62.2	0	69.1	69.1	70	N	-	-	18.4	Y	N	N
A1-2-23	27	110.5	A1-2	-	50.7	0	65.7	64.1	42.6	62.4	0	69	69.1	70	N	-	-	18.4	Y	N	N
A1-2-23	28	113.5	A1-2	-	50.7	0	65.6	64	42.5	62.5	0	69	69.1	70	N	-	-	18.4	Y	N	N
A1-2-23	29	116.5	A1-2	-	50.8	0	65.6	63.8	42.5	62.6	0	69	69.0	70	N	-	-	18.2	Y	N	N
A1-2-23	30	119.5	A1-2	-	50.8	0	65.5	63.7	42.4	62.8	0	69	69.0	70	N	-	-	18.2	Y	N	N
A1-2-23	31	122.5	A1-2	-	50.8	0	65.5	63.6	42.5	63	0	69	69.0	70	N	-	-	18.2	Y	N	N
A1-2-23	32	125.5	A1-2	-	50.9	0	65.4	63.5	42.6	63.2	0	69	69.0	70	N	-	-	18.1	Y	N	N
A1-2-23	33	128.5	A1-2	-	51.1	0	65.4	63.3	43	63.5	0	69	69.0	70	N	-	-	17.9	Y	N	N
A1-2-23	34	131.5	A1-2	-	51.3	0	65.4	63.3	44	63.7	0	69	69.1	70	N	-	-	17.8	Y	N	N
A1-2-23	35	134.5	A1-2	-	51.9	0	65.4	63.2	45.1	64.2	0	69.1	69.2	70	N	-	-	17.3	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required[4,5] (Y/N)
							dB (A)									Check Project Impact Significance		Check Direct Mitigation			
A1-2-23	36	137.5	A1-2	-	52.8	0	65.5	63.1	45.6	64.9	0	69.4	69.5	70	N	-	-	16.7	Y	N	N
A1-2-24	1	32.5	A1-2	-	36.8	0	63.5	70.5	48.7	49.2	0	71.4	71.4	70	Y	-	-	34.6	Y	Y	Y
A1-2-24	2	35.5	A1-2	-	38.6	0	64.2	70.1	48.3	50	0	71.1	71.1	70	Y	-	-	32.5	Y	Y	Y
A1-2-24	3	38.5	A1-2	-	40.9	0	65.3	69.7	47.9	50.9	0	71.1	71.1	70	Y	-	-	30.2	Y	Y	Y
A1-2-24	4	41.5	A1-2	-	43.9	0	65.7	69.3	47.6	51.9	0	71	71.0	70	Y	-	-	27.1	Y	Y	Y
A1-2-24	5	44.5	A1-2	-	46.6	0	65.7	68.9	47.2	53.1	0	70.7	70.7	70	Y	-	-	24.1	Y	Y	Y
A1-2-24	6	47.5	A1-2	-	47.5	0	65.8	68.6	46.8	54.4	0	70.5	70.6	70	Y	-	-	23.1	Y	Y	Y
A1-2-24	7	50.5	A1-2	-	48.1	0	65.9	68.2	46.5	55.5	0	70.4	70.4	70	N	-	-	22.3	Y	N	N
A1-2-24	8	53.5	A1-2	-	48.5	0	65.9	67.9	46.2	56.2	0	70.2	70.2	70	N	-	-	21.7	Y	N	N
A1-2-24	9	56.5	A1-2	-	49	0	65.9	67.5	45.9	56.8	0	70	70.1	70	N	-	-	21.1	Y	N	N
A1-2-24	10	59.5	A1-2	-	49.3	0	65.9	67.2	45.6	57.4	0	69.9	69.9	70	N	-	-	20.6	Y	N	N
A1-2-24	11	62.5	A1-2	-	49.6	0	65.9	67	45.4	58	0	69.8	69.8	70	N	-	-	20.2	Y	N	N
A1-2-24	12	65.5	A1-2	-	49.8	0	66	66.8	45.1	58.4	0	69.7	69.8	70	N	-	-	20.0	Y	N	N
A1-2-24	13	68.5	A1-2	-	50	0	65.9	66.5	44.9	58.8	0	69.6	69.7	70	N	-	-	19.7	Y	N	N
A1-2-24	14	71.5	A1-2	-	50.1	0	65.9	66.3	44.7	59.2	0	69.6	69.6	70	N	-	-	19.5	Y	N	N
A1-2-24	15	74.5	A1-2	-	50.3	0	65.9	66	44.4	59.5	0	69.5	69.5	70	N	-	-	19.2	Y	N	N
A1-2-24	16	77.5	A1-2	-	50.4	0	65.9	65.8	44.3	59.7	0	69.4	69.4	70	N	-	-	19.0	Y	N	N
A1-2-24	17	80.5	A1-2	-	50.5	0	65.9	65.7	44	60	0	69.3	69.4	70	N	-	-	18.9	Y	N	N
A1-2-24	18	83.5	A1-2	-	50.6	0	65.8	65.5	43.9	60.3	0	69.3	69.3	70	N	-	-	18.7	Y	N	N
A1-2-24	19	86.5	A1-2	-	50.6	0	65.8	65.3	43.7	60.5	0	69.2	69.3	70	N	-	-	18.7	Y	N	N
A1-2-24	20	89.5	A1-2	-	50.7	0	65.8	65.1	43.6	60.8	0	69.2	69.2	70	N	-	-	18.5	Y	N	N
A1-2-24	21	92.5	A1-2	-	50.7	0	65.7	65	43.4	61	0	69.1	69.2	70	N	-	-	18.5	Y	N	N
A1-2-24	22	95.5	A1-2	-	50.8	0	65.7	64.8	43.2	61.2	0	69.1	69.1	70	N	-	-	18.3	Y	N	N
A1-2-24	23	98.5	A1-2	-	50.8	0	65.7	64.6	43.1	61.4	0	69	69.1	70	N	-	-	18.3	Y	N	N
A1-2-24	24	101.5	A1-2	-	50.8	0	65.6	64.5	43	61.5	0	69	69.1	70	N	-	-	18.3	Y	N	N
A1-2-24	25	104.5	A1-2	-	50.8	0	65.6	64.3	42.9	61.7	0	68.9	69.0	70	N	-	-	18.2	Y	N	N
A1-2-24	26	107.5	A1-2	-	50.9	0	65.5	64.2	42.7	62	0	68.9	69.0	70	N	-	-	18.1	Y	N	N
A1-2-24	27	110.5	A1-2	-	50.9	0	65.5	64.1	42.6	62.1	0	68.9	69.0	70	N	-	-	18.1	Y	N	N
A1-2-24	28	113.5	A1-2	-	51	0	65.5	64	42.5	62.3	0	68.9	69.0	70	N	-	-	18.0	Y	N	N
A1-2-24	29	116.5	A1-2	-	51	0	65.4	63.8	42.4	62.5	0	68.8	68.9	70	N	-	-	17.9	Y	N	N
A1-2-24	30	119.5	A1-2	-	51	0	65.4	63.7	42.4	62.6	0	68.8	68.9	70	N	-	-	17.9	Y	N	N
A1-2-24	31	122.5	A1-2	-	51.1	0	65.3	63.6	42.4	62.9	0	68.8	68.9	70	N	-	-	17.8	Y	N	N
A1-2-24	32	125.5	A1-2	-	51.1	0	65.3	63.5	42.4	63	0	68.8	68.9	70	N	-	-	17.8	Y	N	N
A1-2-24	33	128.5	A1-2	-	51.3	0	65.3	63.3	42.7	63.3	0	68.8	68.9	70	N	-	-	17.6	Y	N	N
A1-2-24	34	131.5	A1-2	-	51.5	0	65.2	63.2	43.4	63.6	0	68.9	69.0	70	N	-	-	17.5	Y	N	N
A1-2-24	35	134.5	A1-2	-	52.1	0	65.3	63.1	44.3	64	0	69	69.1	70	N	-	-	17.0	Y	N	N
A1-2-24	36	137.5	A1-2	-	52.9	0	65.3	63	44.9	64.7	0	69.3	69.4	70	N	-	-	16.5	Y	N	N
A1-2-25	1	32.5	A1-2	-	37.4	0	62.9	70.2	49	49.7	0	71	71.0	70	Y	-	-	33.6	Y	Y	Y
A1-2-25	2	35.5	A1-2	-	39	0	63.3	69.9	48.6	50.3	0	70.8	70.8	70	Y	-	-	31.8	Y	Y	Y
A1-2-25	3	38.5	A1-2	-	41.1	0	63.8	69.5	48.2	51.1	0	70.6	70.6	70	Y	-	-	29.5	Y	Y	Y
A1-2-25	4	41.5	A1-2	-	43.9	0	64.1	69.2	47.9	51.9	0	70.4	70.4	70	N	-	-	26.5	Y	N	N
A1-2-25	5	44.5	A1-2	-	46.5	0	64.2	68.8	47.6	52.9	0	70.2	70.2	70	N	-	-	23.7	Y	N	N
A1-2-25	6	47.5	A1-2	-	47.4	0	64.3	68.5	47.2	53.9	0	70	70.0	70	N	-	-	22.6	Y	N	N
A1-2-25	7	50.5	A1-2	-	47.9	0	64.4	68.1	46.8	54.9	0	69.8	69.8	70	N	-	-	21.9	Y	N	N
A1-2-25	8	53.5	A1-2	-	48.5	0	64.5	67.8	46.5	55.6	0	69.7	69.7	70	N	-	-	21.2	Y	N	N
A1-2-25	9	56.5	A1-2	-	49	0	64.5	67.5	46.3	56.1	0	69.5	69.5	70	N	-	-	20.5	Y	N	N
A1-2-25	10	59.5	A1-2	-	49.3	0	64.6	67.2	46	56.6	0	69.4	69.4	70	N	-	-	20.1	Y	N	N
A1-2-25	11	62.5	A1-2	-	49.5	0	64.6	66.9	45.7	57.1	0	69.2	69.3	70	N	-	-	19.8	Y	N	N
A1-2-25	12	65.5	A1-2	-	49.8	0	64.6	66.6	45.5	57.5	0	69.1	69.1	70	N	-	-	19.3	Y	N	N
A1-2-25	13	68.5	A1-2	-	50	0	64.6	66.5	45.3	57.9	0	69	69.1	70	N	-	-	19.1	Y	N	N
A1-2-25	14	71.5	A1-2	-	50.1	0	64.6	66.2	45	58.3	0	68.9	69.0	70	N	-	-	18.9	Y	N	N
A1-2-25	15	74.5	A1-2	-	50.2	0	64.6	66	44.8	58.7	0	68.8	68.9	70	N	-	-	18.7	Y	N	N
A1-2-25	16	77.5	A1-2	-	50.3	0	64.6	65.8	44.6	58.9	0	68.8	68.8	70	N	-	-	18.5	Y	N	N
A1-2-25	17	80.5	A1-2	-	50.4	0	64.6	65.6	44.4	59.2	0	68.7	68.8	70	N	-	-	18.4	Y	N	N
A1-2-25	18	83.5	A1-2	-	50.5	0	64.6	65.5	44.2	59.5	0	68.6	68.7	70	N	-	-	18.2	Y	N	N
A1-2-25	19	86.5	A1-2	-	50.6	0	64.6	65.3	44	59.8	0	68.6	68.7	70	N	-	-	18.1	Y	N	N
A1-2-25	20	89.5	A1-2	-	50.7	0	64.6	65.1	43.9	60	0	68.5	68.6	70	N	-	-	17.9	Y	N	N
A1-2-25	21	92.5	A1-2	-	50.7	0	64.6	64.9	43.8	60.3	0	68.5	68.5	70	N	-	-	17.8	Y	N	N
A1-2-25	22	95.5	A1-2	-	50.8	0	64.5	64.8	43.6	60.5	0	68.4	68.5	70	N	-	-	17.7	Y	N	N
A1-2-25	23	98.5	A1-2	-	50.8	0	64.5	64.6	43.5	60.7	0	68.4	68.5	70	N	-	-	17.7	Y	N	N
A1-2-25	24	101.5	A1-2	-	51	0	64.5	64.4	43.3	60.9	0	68.3	68.4	70	N	-	-	17.4	Y	N	N
A1-2-25	25	104.5	A1-2	-	51	0	64.4	64.3	43.1	61.1	0	68.3	68.4	70	N	-	-	17.4	Y	N	N
A1-2-25	26	107.5	A1-2	-	51.1	0	64.4	64.1	43	61.4	0	68.3	68.4	70	N	-	-	17.3	Y	N	N
A1-2-25	27	110.5	A1-2	-	51.1	0	64.4	64	42.9	61.6	0	68.3	68.4	70	N	-	-	17.3	Y	N	N
A1-2-25	28	113.5	A1-2	-	51.2	0	64.4	63.9	42.8	61.8	0	68.3	68.4	70	N	-	-	17.2	Y	N	N
A1-2-25	29	116.5	A1-2	-	51.3	0	64.3	63.8	42.7	61.9	0	68.2	68.3	70	N	-	-	17.0	Y	N	N
A1-2-25	30	119.5	A1-2	-	51.4	0	64.3	63.7	42.7	62.2	0	68.2	68.3	70	N	-	-	16.9	Y	N	N
A1-2-25	31	122.5	A1-2	-	51.5	0	64.2	63.6	42.6	62.4	0	68.2	68.3	70	N	-	-	16.8	Y	N	N
A1-2-25	32	125.5	A1-2	-	51.6	0	64.2	63.5	42.6	62.6	0	68.3	68.3	70	N	-	-	16.7	Y	N	N
A1-2-25	33	128.5	A1-2	-	51.7	0	64.1	63.3	42.6	62.9	0	68.2	68.3	70	N	-	-	16.6	Y	N	N
A1-2-25	34	131.5	A1-2	-	51.8	0	64.2	63.2	42.8	63.2	0	68.3	68.4	70	N	-	-	16.6	Y	N	N
A1-2-25	35	134.5	A1-2	-	52.1	0	64.2	63.1	43.1	63.6	0	68.4	68.5	70	N	-	-	16.4	Y	N	N
A1-2-25	36	137.5	A1-2	-	52.5	0	64.3	63	44	64.3	0	68.7	68.8	70	N	-	-	16.3	Y	N	N
A1-2-26	1	32.5	A1-2	-	37.5	0	62.5	69.9	50.4	50	0	70.7	70.7	70	Y	-	-	33.2	Y	Y	Y
A1-2-26	2	35.5	A1-2	-	39	0	62.8	69.6	50.1	50.6	0	70.5	70.5	70	Y	-	-	31.5	Y	Y	Y
A1-2-26	3	38.5	A1-2	-	41	0	63.1	69.2	49.7	51.3	0	70.3	70.3	70	N	-	-	29.3	Y	N	N
A1-2-26	4	41.5	A1-2	-	43.9	0	63.3	68.9	49.4	52.1	0	70	70.1	70	N	-	-	26.2	Y	N	N
A1-2-26	5	44.5	A1-2	-	46.4	0	63.4	68.5	49.1	52.9	0	69.8	69.8	70	N	-	-	23.4	Y	N	N
A1-2-26	6	47.5	A1-2	-	47.3	0	63.5	68.2	48.7	53.9	0	69.6	69.7	70	N	-	-	22.4	Y	N	N
A1-2-26	7	50.5	A1-2	-	47.9	0	63.7	67.8	48.5	54.9	0	69.4	69.5	70	N	-	-	21.6	Y	N	N
A1-2-26	8	53.5	A1-2	-	48.5	0	63.7	67.5	48.1	55.6	0	69.3	69.3	70	N	-	-	20.8	Y	N	N
A1-2-26	9	56.5	A1-2	-	49	0	63.8	67.2	47.8	56.1	0	69.1	69.1	70	N	-	-	20.1	Y	N	N
A1-2-26	10	59.5	A1-2	-	49.3	0	63.8	66.9	47.5	56.6	0	69	69.0	70	N	-	-	19.7	Y	N	N
A1-2-26	11	62.5	A1-2	-	49.5	0	63.9	66.7	47.3	57	0	68.9	68.9	70	N	-	-	19.4	Y	N	N
A1-2-26	12	65.5	A1-2	-	49.8	0	63.9	66.5	47.1	57.5	0	68.8	68.8	70	N	-	-	19.0	Y	N	N
A1-2-26	13	68.5	A1-2	-	50	0	63.9	66.2	46.8	57.9	0	68.6	68.7	70	N	-	-	18.7	Y	N	N
A1-2-26	14	71.5	A1-2	-	50	0	63.9	66	46.6	58.2	0	68.6	68.6	70	N	-	-	18.6	Y	N	N
A1-2-26	15	74.5	A1-2	-	50.2	0	63.9	65.8	46.4	58.6	0	68.5	68.6	70	N	-	-	18.4	Y	N	N
A1-2-26	16	77.5	A1-2	-	50.3	0	63.9	65.6	46.2	58.9	0	68.4	68.5	70	N	-	-	18.2	Y	N	N
A1-2-26	17	80.5	A1-2	-	50.5	0	63.9	65.5	46	59.2	0	68.4	68.4	70	N	-	-	17.9	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
									dB (A)							C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
A1-2-26	18	83.5	A1-2	-	50.5	0	63.9	65.3	45.8	59.4	0	68.3	68.4	70	N	-	-	17.9	Y	N	N
A1-2-26	19	86.5	A1-2	-	50.6	0	63.9	65.1	45.6	59.7	0	68.2	68.3	70	N	-	-	17.7	Y	N	N
A1-2-26	20	89.5	A1-2	-	50.7	0	63.9	64.9	45.4	60	0	68.2	68.3	70	N	-	-	17.6	Y	N	N
A1-2-26	21	92.5	A1-2	-	50.7	0	63.9	64.7	45.3	60.2	0	68.1	68.2	70	N	-	-	17.5	Y	N	N
A1-2-26	22	95.5	A1-2	-	50.8	0	63.9	64.6	45.2	60.5	0	68.1	68.2	70	N	-	-	17.4	Y	N	N
A1-2-26	23	98.5	A1-2	-	50.8	0	63.8	64.4	45	60.7	0	68	68.1	70	N	-	-	17.3	Y	N	N
A1-2-26	24	101.5	A1-2	-	51	0	63.8	64.2	44.9	60.8	0	68	68.1	70	N	-	-	17.1	Y	N	N
A1-2-26	25	104.5	A1-2	-	51	0	63.8	64.1	44.7	61.1	0	68	68.1	70	N	-	-	17.1	Y	N	N
A1-2-26	26	107.5	A1-2	-	51	0	63.7	64	44.6	61.3	0	67.9	68.0	70	N	-	-	17.0	Y	N	N
A1-2-26	27	110.5	A1-2	-	51.1	0	63.7	63.9	44.5	61.5	0	67.9	68.0	70	N	-	-	16.9	Y	N	N
A1-2-26	28	113.5	A1-2	-	51.1	0	63.7	63.8	44.3	61.7	0	67.9	68.0	70	N	-	-	16.9	Y	N	N
A1-2-26	29	116.5	A1-2	-	51.3	0	63.6	63.6	44.2	61.9	0	67.9	68.0	70	N	-	-	16.7	Y	N	N
A1-2-26	30	119.5	A1-2	-	51.4	0	63.6	63.5	44.1	62.1	0	67.9	68.0	70	N	-	-	16.6	Y	N	N
A1-2-26	31	122.5	A1-2	-	51.4	0	63.6	63.4	44.1	62.3	0	67.9	68.0	70	N	-	-	16.6	Y	N	N
A1-2-26	32	125.5	A1-2	-	51.5	0	63.5	63.2	44	62.6	0	67.9	68.0	70	N	-	-	16.5	Y	N	N
A1-2-26	33	128.5	A1-2	-	51.6	0	63.5	63.1	44	62.8	0	67.9	68.0	70	N	-	-	16.4	Y	N	N
A1-2-26	34	131.5	A1-2	-	51.8	0	63.5	63	44.1	63.1	0	68	68.1	70	N	-	-	16.3	Y	N	N
A1-2-26	35	134.5	A1-2	-	52	0	63.5	62.9	44.3	63.5	0	68.1	68.2	70	N	-	-	16.2	Y	N	N
A1-2-26	36	137.5	A1-2	-	52.4	0	63.6	62.8	44.9	64.1	0	68.3	68.4	70	N	-	-	16.0	Y	N	N
A1-2-27	1	32.5	A1-2	-	37.5	0	62.2	69.8	50.5	50.1	0	70.6	70.6	70	Y	-	-	33.1	Y	Y	Y
A1-2-27	2	35.5	A1-2	-	39	0	62.6	69.5	50.2	50.7	0	70.4	70.4	70	N	-	-	31.4	Y	N	N
A1-2-27	3	38.5	A1-2	-	41	0	62.8	69.2	49.9	51.3	0	70.2	70.2	70	N	-	-	29.2	Y	N	N
A1-2-27	4	41.5	A1-2	-	44	0	63.1	68.8	49.5	52.1	0	69.9	69.9	70	N	-	-	25.9	Y	N	N
A1-2-27	5	44.5	A1-2	-	46.3	0	63.2	68.5	49.2	53	0	69.7	69.8	70	N	-	-	23.5	Y	N	N
A1-2-27	6	47.5	A1-2	-	47.3	0	63.3	68.1	48.9	53.9	0	69.5	69.5	70	N	-	-	22.2	Y	N	N
A1-2-27	7	50.5	A1-2	-	47.9	0	63.4	67.8	48.6	54.8	0	69.3	69.4	70	N	-	-	21.5	Y	N	N
A1-2-27	8	53.5	A1-2	-	48.5	0	63.5	67.5	48.3	55.5	0	69.2	69.2	70	N	-	-	20.7	Y	N	N
A1-2-27	9	56.5	A1-2	-	48.9	0	63.6	67.2	48	56	0	69	69.1	70	N	-	-	20.2	Y	N	N
A1-2-27	10	59.5	A1-2	-	49.3	0	63.6	66.9	47.7	56.5	0	68.9	68.9	70	N	-	-	19.6	Y	N	N
A1-2-27	11	62.5	A1-2	-	49.5	0	63.6	66.6	47.5	57	0	68.7	68.8	70	N	-	-	19.3	Y	N	N
A1-2-27	12	65.5	A1-2	-	49.7	0	63.7	66.4	47.2	57.4	0	68.7	68.7	70	N	-	-	19.0	Y	N	N
A1-2-27	13	68.5	A1-2	-	49.9	0	63.7	66.2	47	57.8	0	68.5	68.6	70	N	-	-	18.7	Y	N	N
A1-2-27	14	71.5	A1-2	-	50	0	63.7	66	46.8	58.2	0	68.5	68.5	70	N	-	-	18.5	Y	N	N
A1-2-27	15	74.5	A1-2	-	50.2	0	63.7	65.8	46.6	58.5	0	68.4	68.5	70	N	-	-	18.3	Y	N	N
A1-2-27	16	77.5	A1-2	-	50.3	0	63.7	65.6	46.4	58.8	0	68.3	68.4	70	N	-	-	18.1	Y	N	N
A1-2-27	17	80.5	A1-2	-	50.4	0	63.7	65.4	46.2	59.1	0	68.2	68.3	70	N	-	-	17.9	Y	N	N
A1-2-27	18	83.5	A1-2	-	50.5	0	63.7	65.2	46	59.3	0	68.2	68.3	70	N	-	-	17.8	Y	N	N
A1-2-27	19	86.5	A1-2	-	50.6	0	63.7	65.1	45.8	59.6	0	68.1	68.2	70	N	-	-	17.6	Y	N	N
A1-2-27	20	89.5	A1-2	-	50.6	0	63.7	64.9	45.6	59.9	0	68.1	68.2	70	N	-	-	17.6	Y	N	N
A1-2-27	21	92.5	A1-2	-	50.7	0	63.7	64.7	45.5	60.1	0	68	68.1	70	N	-	-	17.4	Y	N	N
A1-2-27	22	95.5	A1-2	-	50.8	0	63.6	64.5	45.3	60.4	0	68	68.1	70	N	-	-	17.3	Y	N	N
A1-2-27	23	98.5	A1-2	-	50.8	0	63.6	64.4	45.2	60.6	0	68	68.0	70	N	-	-	17.2	Y	N	N
A1-2-27	24	101.5	A1-2	-	50.9	0	63.6	64.2	45.1	60.7	0	67.9	68.0	70	N	-	-	17.1	Y	N	N
A1-2-27	25	104.5	A1-2	-	50.9	0	63.6	64.1	44.9	61	0	67.9	68.0	70	N	-	-	17.1	Y	N	N
A1-2-27	26	107.5	A1-2	-	51	0	63.6	63.9	44.8	61.2	0	67.8	67.9	70	N	-	-	16.9	Y	N	N
A1-2-27	27	110.5	A1-2	-	51	0	63.5	63.8	44.6	61.4	0	67.8	67.9	70	N	-	-	16.9	Y	N	N
A1-2-27	28	113.5	A1-2	-	51.1	0	63.5	63.7	44.5	61.6	0	67.8	67.9	70	N	-	-	16.8	Y	N	N
A1-2-27	29	116.5	A1-2	-	51.2	0	63.5	63.6	44.4	61.8	0	67.8	67.9	70	N	-	-	16.7	Y	N	N
A1-2-27	30	119.5	A1-2	-	51.3	0	63.4	63.5	44.3	62	0	67.8	67.9	70	N	-	-	16.6	Y	N	N
A1-2-27	31	122.5	A1-2	-	51.3	0	63.4	63.4	44.2	62.3	0	67.8	67.9	70	N	-	-	16.6	Y	N	N
A1-2-27	32	125.5	A1-2	-	51.4	0	63.4	63.2	44.2	62.5	0	67.8	67.9	70	N	-	-	16.5	Y	N	N
A1-2-27	33	128.5	A1-2	-	51.5	0	63.3	63.1	44.2	62.7	0	67.9	68.0	70	N	-	-	16.5	Y	N	N
A1-2-27	34	131.5	A1-2	-	51.7	0	63.3	63	44.3	63.1	0	67.9	68.0	70	N	-	-	16.3	Y	N	N
A1-2-27	35	134.5	A1-2	-	51.9	0	63.4	62.9	44.5	63.4	0	68	68.1	70	N	-	-	16.2	Y	N	N
A1-2-27	36	137.5	A1-2	-	52.3	0	63.5	62.8	45.1	64	0	68.2	68.3	70	N	-	-	16.0	Y	N	N
A1-2-28	1	32.5	A1-2	-	37.5	0	57.8	69.1	50.6	50.3	0	69.6	69.6	70	N	-	-	32.1	Y	N	N
A1-2-28	2	35.5	A1-2	-	39	0	58.4	69	50.3	50.9	0	69.5	69.5	70	N	-	-	30.5	Y	N	N
A1-2-28	3	38.5	A1-2	-	40.9	0	59	68.7	50	51.5	0	69.3	69.3	70	N	-	-	28.4	Y	N	N
A1-2-28	4	41.5	A1-2	-	44	0	59.5	68.3	49.7	52.2	0	69	69.0	70	N	-	-	25.0	Y	N	N
A1-2-28	5	44.5	A1-2	-	46.3	0	59.9	68	49.4	53	0	68.8	68.8	70	N	-	-	22.5	Y	N	N
A1-2-28	6	47.5	A1-2	-	47.3	0	60.2	67.7	49.1	53.9	0	68.6	68.6	70	N	-	-	21.3	Y	N	N
A1-2-28	7	50.5	A1-2	-	47.9	0	60.5	67.4	48.8	54.8	0	68.4	68.5	70	N	-	-	20.6	Y	N	N
A1-2-28	8	53.5	A1-2	-	48.4	0	60.7	67.1	48.5	55.5	0	68.2	68.3	70	N	-	-	19.9	Y	N	N
A1-2-28	9	56.5	A1-2	-	48.8	0	60.8	66.8	48.2	56	0	68.1	68.1	70	N	-	-	19.3	Y	N	N
A1-2-28	10	59.5	A1-2	-	49.2	0	61	66.5	47.9	56.5	0	68	68.0	70	N	-	-	18.8	Y	N	N
A1-2-28	11	62.5	A1-2	-	49.5	0	61.2	66.3	47.7	56.9	0	67.9	67.9	70	N	-	-	18.4	Y	N	N
A1-2-28	12	65.5	A1-2	-	49.7	0	61.2	66	47.4	57.4	0	67.7	67.8	70	N	-	-	18.1	Y	N	N
A1-2-28	13	68.5	A1-2	-	49.9	0	61.3	65.8	47.2	57.7	0	67.7	67.7	70	N	-	-	17.8	Y	N	N
A1-2-28	14	71.5	A1-2	-	50	0	61.4	65.7	47	58.1	0	67.6	67.7	70	N	-	-	17.7	Y	N	N
A1-2-28	15	74.5	A1-2	-	50.1	0	61.4	65.4	46.8	58.5	0	67.5	67.6	70	N	-	-	17.5	Y	N	N
A1-2-28	16	77.5	A1-2	-	50.3	0	61.5	65.2	46.6	58.8	0	67.4	67.5	70	N	-	-	17.2	Y	N	N
A1-2-28	17	80.5	A1-2	-	50.4	0	61.6	65	46.4	59	0	67.4	67.5	70	N	-	-	17.1	Y	N	N
A1-2-28	18	83.5	A1-2	-	50.5	0	61.6	64.8	46.2	59.3	0	67.3	67.4	70	N	-	-	16.9	Y	N	N
A1-2-28	19	86.5	A1-2	-	50.5	0	61.6	64.7	46	59.6	0	67.3	67.4	70	N	-	-	16.9	Y	N	N
A1-2-28	20	89.5	A1-2	-	50.6	0	61.7	64.6	45.8	59.8	0	67.3	67.3	70	N	-	-	16.7	Y	N	N
A1-2-28	21	92.5	A1-2	-	50.7	0	61.6	64.4	45.6	60.1	0	67.2	67.3	70	N	-	-	16.6	Y	N	N
A1-2-28	22	95.5	A1-2	-	50.8	0	61.7	64.2	45.5	60.4	0	67.2	67.3	70	N	-	-	16.5	Y	N	N
A1-2-28	23	98.5	A1-2	-	50.8	0	61.6	64.1	45.3	60.6	0	67.2	67.3	70	N	-	-	16.5	Y	N	N
A1-2-28	24	101.5	A1-2	-	50.8	0	61.7	63.9	45.2	60.7	0	67.1	67.2	70	N	-	-	16.4	Y	N	N
A1-2-28	25	104.5	A1-2	-	50.9	0	61.7	63.8	45	60.9	0	67.1	67.2	70	N	-	-	16.3	Y	N	N
A1-2-28	26	107.5	A1-2	-	50.9	0	61.6	63.6	44.9	61.1	0	67.1	67.2	70	N	-	-	16.3	Y	N	N
A1-2-28	27	110.5	A1-2	-	51	0	61.6	63.5	44.8	61.4	0	67.1	67.2	70	N	-	-	16.2	Y	N	N
A1-2-28	28	113.5	A1-2	-	51	0	61.6	63.3	44.7	61.6	0	67	67.1	70	N	-	-	16.1	Y	N	N
A1-2-28	29	116.5	A1-2	-	51.1	0	61.6	63.2	44.5	61.8	0	67.1	67.2	70	N	-	-	16.1	Y	N	N
A1-2-28	30	119.5	A1-2	-	51.2	0	61.6	63.1	44.4	62	0	67.1	67.2	70	N	-	-	16.0	Y	N	N
A1-2-28	31	122.5	A1-2	-	51.3	0	61.6	63.1	44.4	62.2	0	67.1	67.2	70	N	-	-	15.9	Y	N	N
A1-2-28	32	125.5	A1-2	-	51.3	0	61.5	62.9	44.3	62.5	0	67.1	67.2	70	N	-	-	15.9	Y	N	N
A1-2-28	33	128.5	A1-2	-	51.4	0	61.5	62.8	44.3	62.7	0	67.2	67.3	70	N	-	-	15.9	Y	N	N
A1-2-28	34	131.5	A1-2	-	51.6	0	61.5	62.7	44.3	63	0	67.2	67.4	70	N	-	-	15.8	Y	N	N
A1-2-28	35	134.5	A1-2	-	51.8	0	61.6	62.6	44.5	63.3	0	67.4	67.5	70	N	-	-	15.7	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
									dB (A)							C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
A1-2-28	36	137.5	A1-2	-	52.2	0	61.8	62.5	45	63.8	0	67.6	67.7	70	N	-	-	15.5	Y	N	N
A1-2-29	1	32.5	A1-2	-	27	0	59.1	67	15.4	40.9	0	67.6	67.6	70	N	-	-	40.6	Y	N	N
A1-2-29	2	35.5	A1-2	-	27.2	0	59.2	66.7	15.4	40.9	0	67.4	67.4	70	N	-	-	40.2	Y	N	N
A1-2-29	3	38.5	A1-2	-	27.4	0	59.4	66.5	15.4	40.9	0	67.2	67.2	70	N	-	-	39.8	Y	N	N
A1-2-29	4	41.5	A1-2	-	27.6	0	59.5	66.2	15.4	40.9	0	67	67.0	70	N	-	-	39.4	Y	N	N
A1-2-29	5	44.5	A1-2	-	27.9	0	59.7	65.9	15.4	40.9	0	66.8	66.8	70	N	-	-	38.9	Y	N	N
A1-2-29	6	47.5	A1-2	-	28.5	0	59.8	65.6	15.3	40.9	0	66.6	66.6	70	N	-	-	38.1	Y	N	N
A1-2-29	7	50.5	A1-2	-	29.3	0	59.9	65.3	15.3	40.9	0	66.4	66.4	70	N	-	-	37.1	Y	N	N
A1-2-29	8	53.5	A1-2	-	30.8	0	60	65	15.3	40.9	0	66.2	66.2	70	N	-	-	35.4	Y	N	N
A1-2-29	9	56.5	A1-2	-	32.6	0	60.1	64.7	15.3	40.9	0	66	66.0	70	N	-	-	33.4	Y	N	N
A1-2-29	10	59.5	A1-2	-	34.4	0	60.2	64.5	15.3	40.9	0	65.9	65.9	70	N	-	-	31.5	Y	N	N
A1-2-29	11	62.5	A1-2	-	35	0	60.2	64.2	15.3	40.9	0	65.7	65.7	70	N	-	-	30.7	Y	N	N
A1-2-29	12	65.5	A1-2	-	35.3	0	60.2	64	15.3	40.9	0	65.5	65.6	70	N	-	-	30.3	Y	N	N
A1-2-29	13	68.5	A1-2	-	35.4	0	60.2	63.8	15.3	40.8	0	65.4	65.4	70	N	-	-	30.0	Y	N	N
A1-2-29	14	71.5	A1-2	-	35.6	0	60.2	63.5	15.3	40.8	0	65.2	65.2	70	N	-	-	29.6	Y	N	N
A1-2-29	15	74.5	A1-2	-	35.6	0	60.3	63.3	15.3	40.8	0	65.1	65.1	70	N	-	-	29.5	Y	N	N
A1-2-29	16	77.5	A1-2	-	35.5	0	60.3	63.1	15.3	40.8	0	65	65.0	70	N	-	-	29.5	Y	N	N
A1-2-29	17	80.5	A1-2	-	35.5	0	60.3	62.9	15.3	40.8	0	64.8	64.8	70	N	-	-	29.3	Y	N	N
A1-2-29	18	83.5	A1-2	-	35.5	0	60.3	62.7	15.3	40.8	0	64.7	64.7	70	N	-	-	29.2	Y	N	N
A1-2-29	19	86.5	A1-2	-	35.5	0	60.2	62.6	14.9	40.8	0	64.6	64.6	70	N	-	-	29.1	Y	N	N
A1-2-29	20	89.5	A1-2	-	35.4	0	60.2	62.4	15.1	40.7	0	64.5	64.5	70	N	-	-	29.1	Y	N	N
A1-2-29	21	92.5	A1-2	-	35.4	0	60.2	62.2	15.8	40.7	0	64.4	64.4	70	N	-	-	29.0	Y	N	N
A1-2-29	22	95.5	A1-2	-	35.5	0	60.2	62.1	16.5	40.8	0	64.3	64.3	70	N	-	-	28.8	Y	N	N
A1-2-29	23	98.5	A1-2	-	35.5	0	60.2	61.9	17.2	41.1	0	64.2	64.2	70	N	-	-	28.7	Y	N	N
A1-2-29	24	101.5	A1-2	-	35.6	0	60.2	61.8	18	41.5	0	64.1	64.1	70	N	-	-	28.5	Y	N	N
A1-2-29	25	104.5	A1-2	-	35.8	0	60.2	61.6	18.8	42	0	64	64.0	70	N	-	-	28.2	Y	N	N
A1-2-29	26	107.5	A1-2	-	36	0	60.1	61.5	19.6	42.6	0	63.9	63.9	70	N	-	-	27.9	Y	N	N
A1-2-29	27	110.5	A1-2	-	36.4	0	60.1	61.3	20.4	43.2	0	63.8	63.8	70	N	-	-	27.4	Y	N	N
A1-2-29	28	113.5	A1-2	-	37.1	0	60.1	61.2	21.3	44	0	63.8	63.8	70	N	-	-	26.7	Y	N	N
A1-2-29	29	116.5	A1-2	-	37.9	0	60.1	61.1	22.2	44.7	0	63.7	63.7	70	N	-	-	25.8	Y	N	N
A1-2-29	30	119.5	A1-2	-	39.3	0	60.1	60.9	23.2	45.5	0	63.6	63.6	70	N	-	-	24.3	Y	N	N
A1-2-29	31	122.5	A1-2	-	41.4	0	60.1	60.8	24.1	46.5	0	63.6	63.6	70	N	-	-	22.2	Y	N	N
A1-2-29	32	125.5	A1-2	-	44.7	0	60	60.7	25.2	47.5	0	63.5	63.6	70	N	-	-	18.9	Y	N	N
A1-2-29	33	128.5	A1-2	-	48.2	0	60	60.6	26.2	48.7	0	63.5	63.6	70	N	-	-	15.4	Y	N	N
A1-2-29	34	131.5	A1-2	-	48.9	0	60	60.5	27.3	50	0	63.5	63.6	70	N	-	-	14.7	Y	N	N
A1-2-29	35	134.5	A1-2	-	49.3	0	60	60.3	28.5	51.4	0	63.5	63.6	70	N	-	-	14.3	Y	N	N
A1-2-29	36	137.5	A1-2	-	49.3	0	60	60.2	29.7	53.4	0	63.6	63.7	70	N	-	-	14.4	Y	N	N
A1-2-30	1	32.5	A1-2	-	26.7	0	59.2	67.4	15.3	41.1	0	68	68.0	70	N	-	-	41.3	Y	N	N
A1-2-30	2	35.5	A1-2	-	26.7	0	59.4	67	15.3	41.1	0	67.7	67.7	70	N	-	-	41.0	Y	N	N
A1-2-30	3	38.5	A1-2	-	26.7	0	59.5	66.7	15.3	41.1	0	67.5	67.5	70	N	-	-	40.8	Y	N	N
A1-2-30	4	41.5	A1-2	-	26.7	0	59.7	66.4	15.3	41.1	0	67.2	67.2	70	N	-	-	40.5	Y	N	N
A1-2-30	5	44.5	A1-2	-	26.6	0	59.8	66.1	15.3	41.1	0	67	67.0	70	N	-	-	40.4	Y	N	N
A1-2-30	6	47.5	A1-2	-	26.6	0	59.9	65.7	15.3	41	0	66.8	66.8	70	N	-	-	40.2	Y	N	N
A1-2-30	7	50.5	A1-2	-	26.6	0	60	65.4	15.3	41	0	66.5	66.5	70	N	-	-	39.9	Y	N	N
A1-2-30	8	53.5	A1-2	-	26.7	0	60.1	65.1	15.3	41	0	66.4	66.4	70	N	-	-	39.7	Y	N	N
A1-2-30	9	56.5	A1-2	-	26.6	0	60.2	64.9	15.3	41	0	66.2	66.2	70	N	-	-	39.6	Y	N	N
A1-2-30	10	59.5	A1-2	-	26.6	0	60.2	64.7	15.3	41	0	66	66.0	70	N	-	-	39.4	Y	N	N
A1-2-30	11	62.5	A1-2	-	26.6	0	60.3	64.4	15.2	41	0	65.8	65.8	70	N	-	-	39.2	Y	N	N
A1-2-30	12	65.5	A1-2	-	26.6	0	60.3	64.2	15.2	41	0	65.7	65.7	70	N	-	-	39.1	Y	N	N
A1-2-30	13	68.5	A1-2	-	26.6	0	60.3	63.9	15.2	41	0	65.5	65.5	70	N	-	-	38.9	Y	N	N
A1-2-30	14	71.5	A1-2	-	26.6	0	60.3	63.7	15.2	41	0	65.3	65.3	70	N	-	-	38.7	Y	N	N
A1-2-30	15	74.5	A1-2	-	26.6	0	60.3	63.5	15.2	41	0	65.2	65.2	70	N	-	-	38.6	Y	N	N
A1-2-30	16	77.5	A1-2	-	26.6	0	60.3	63.3	15.2	41	0	65.1	65.1	70	N	-	-	38.5	Y	N	N
A1-2-30	17	80.5	A1-2	-	26.6	0	60.3	63.1	15.2	40.9	0	64.9	64.9	70	N	-	-	38.3	Y	N	N
A1-2-30	18	83.5	A1-2	-	26.5	0	60.3	62.9	15.2	40.9	0	64.8	64.8	70	N	-	-	38.3	Y	N	N
A1-2-30	19	86.5	A1-2	-	26.5	0	60.3	62.7	15	40.9	0	64.7	64.7	70	N	-	-	38.2	Y	N	N
A1-2-30	20	89.5	A1-2	-	26.5	0	60.3	62.5	15.1	40.8	0	64.5	64.5	70	N	-	-	38.0	Y	N	N
A1-2-30	21	92.5	A1-2	-	26.7	0	60.3	62.4	15.8	40.8	0	64.5	64.5	70	N	-	-	37.8	Y	N	N
A1-2-30	22	95.5	A1-2	-	27.1	0	60.3	62.2	16.4	41	0	64.4	64.4	70	N	-	-	37.3	Y	N	N
A1-2-30	23	98.5	A1-2	-	27.7	0	60.3	62	17.1	41.2	0	64.2	64.2	70	N	-	-	36.5	Y	N	N
A1-2-30	24	101.5	A1-2	-	28.5	0	60.2	61.9	17.8	41.6	0	64.2	64.2	70	N	-	-	35.7	Y	N	N
A1-2-30	25	104.5	A1-2	-	29.4	0	60.2	61.7	18.6	42.1	0	64.1	64.1	70	N	-	-	34.7	Y	N	N
A1-2-30	26	107.5	A1-2	-	30.6	0	60.2	61.6	19.5	42.7	0	64	64.0	70	N	-	-	33.4	Y	N	N
A1-2-30	27	110.5	A1-2	-	32	0	60.2	61.4	20.3	43.3	0	63.9	63.9	70	N	-	-	31.9	Y	N	N
A1-2-30	28	113.5	A1-2	-	33.6	0	60.2	61.3	21.2	44	0	63.8	63.8	70	N	-	-	30.2	Y	N	N
A1-2-30	29	116.5	A1-2	-	35.4	0	60.2	61.2	22	44.8	0	63.8	63.8	70	N	-	-	28.4	Y	N	N
A1-2-30	30	119.5	A1-2	-	37.7	0	60.2	61.1	23	45.7	0	63.7	63.7	70	N	-	-	26.0	Y	N	N
A1-2-30	31	122.5	A1-2	-	40.5	0	60.2	60.9	24	46.6	0	63.6	63.7	70	N	-	-	23.2	Y	N	N
A1-2-30	32	125.5	A1-2	-	44.7	0	60.1	60.8	25	47.7	0	63.6	63.6	70	N	-	-	18.9	Y	N	N
A1-2-30	33	128.5	A1-2	-	48.1	0	60.1	60.7	26	48.8	0	63.6	63.7	70	N	-	-	15.6	Y	N	N
A1-2-30	34	131.5	A1-2	-	48.9	0	60.1	60.6	27.2	50.1	0	63.6	63.7	70	N	-	-	14.8	Y	N	N
A1-2-30	35	134.5	A1-2	-	49.2	0	60.1	60.5	28.3	51.7	0	63.6	63.7	70	N	-	-	14.5	Y	N	N
A1-2-30	36	137.5	A1-2	-	49.3	0	60.1	60.4	29.3	53.7	0	63.7	63.9	70	N	-	-	14.6	Y	N	N
A1-2-31	1	32.5	A1-2	-	27.3	0	59.4	68.7	15.3	41.3	0	69.2	69.2	70	N	-	-	41.9	Y	N	N
A1-2-31	2	35.5	A1-2	-	27.3	0	59.6	68.3	15.3	41.3	0	68.9	68.9	70	N	-	-	41.6	Y	N	N
A1-2-31	3	38.5	A1-2	-	27.3	0	59.7	67.9	15.3	41.2	0	68.5	68.5	70	N	-	-	41.2	Y	N	N
A1-2-31	4	41.5	A1-2	-	27.3	0	59.8	67.6	15.3	41.2	0	68.3	68.3	70	N	-	-	41.0	Y	N	N
A1-2-31	5	44.5	A1-2	-	27.3	0	60	67.2	15.3	41.2	0	68	68.0	70	N	-	-	40.7	Y	N	N
A1-2-31	6	47.5	A1-2	-	27.3	0	60.1	66.9	15.3	41.2	0	67.7	67.7	70	N	-	-	40.4	Y	N	N
A1-2-31	7	50.5	A1-2	-	27.3	0	60.3	66.6	15.3	41.2	0	67.5	67.5	70	N	-	-	40.2	Y	N	N
A1-2-31	8	53.5	A1-2	-	27.3	0	60.4	66.3	15.3	41.2	0	67.3	67.3	70	N	-	-	40.0	Y	N	N
A1-2-31	9	56.5	A1-2	-	27.3	0	60.4	66	15.3	41.2	0	67.1	67.1	70	N	-	-	39.8	Y	N	N
A1-2-31	10	59.5	A1-2	-	27.3	0	60.5	65.7	15.3	41.2	0	66.8	66.8	70	N	-	-	39.5	Y	N	N
A1-2-31	11	62.5	A1-2	-	27.2	0	60.5	65.4	15.3	41.2	0	66.6	66.6	70	N	-	-	39.4	Y	N	N
A1-2-31	12	65.5	A1-2	-	27.2	0	60.5	65.2	15.3	41.2	0	66.5	66.5	70	N	-	-	39.3	Y	N	N
A1-2-31	13	68.5	A1-2	-	27.2	0	60.6	64.9	15.3	41.2	0	66.3	66.3	70	N	-	-	39.1	Y	N	N
A1-2-31	14	71.5	A1-2	-	27.2	0	60.6	64.7	15.3	41.2	0	66.1	66.1	70	N	-	-	38.9	Y	N	N
A1-2-31	15	74.5	A1-2	-	27.2	0	60.6	64.5	15.3	41.2	0	66	66.0	70	N	-	-	38.8	Y	N	N
A1-2-31	16	77.5	A1-2	-	27.2	0	60.6	64.2	15.2	41.1	0	65.8	65.8	70	N	-	-	38.6	Y	N	N
A1-2-31	17	80.5	A1-2	-	27.2	0	60.6	64	15.2	41.1	0	65.6	65.6	70	N	-	-	38.4	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance: C - A dB(A) [D]	Check Project Impact Significance: D ≥ 1dB(A)	Check Direct Mitigation: New Road Contribution dB(A) [E]	Check Direct Mitigation: New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	Check Direct Mitigation: New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)												
A1-2-31	18	83.5	A1-2	-	27.2	0	60.5	63.8	15.2	41.1	0	65.5	65.5	70	N	-	-	38.3	Y	N	N
A1-2-31	19	86.5	A1-2	-	27.2	0	60.5	63.7	15.1	41.1	0	65.4	65.4	70	N	-	-	38.2	Y	N	N
A1-2-31	20	89.5	A1-2	-	27.1	0	60.5	63.5	15	41	0	65.3	65.3	70	N	-	-	38.2	Y	N	N
A1-2-31	21	92.5	A1-2	-	27.2	0	60.5	63.3	15.6	41.1	0	65.2	65.2	70	N	-	-	38.0	Y	N	N
A1-2-31	22	95.5	A1-2	-	27.6	0	60.5	63.1	16.3	41.1	0	65	65.0	70	N	-	-	37.4	Y	N	N
A1-2-31	23	98.5	A1-2	-	28.2	0	60.5	63	17.1	41.4	0	64.9	64.9	70	N	-	-	36.7	Y	N	N
A1-2-31	24	101.5	A1-2	-	29	0	60.5	62.8	17.8	41.8	0	64.8	64.8	70	N	-	-	35.8	Y	N	N
A1-2-31	25	104.5	A1-2	-	29.9	0	60.5	62.7	18.5	42.3	0	64.8	64.8	70	N	-	-	34.9	Y	N	N
A1-2-31	26	107.5	A1-2	-	31	0	60.4	62.5	19.3	42.8	0	64.6	64.6	70	N	-	-	33.6	Y	N	N
A1-2-31	27	110.5	A1-2	-	32.3	0	60.4	62.4	20.1	43.4	0	64.6	64.6	70	N	-	-	32.3	Y	N	N
A1-2-31	28	113.5	A1-2	-	33.9	0	60.4	62.2	21	44.2	0	64.4	64.4	70	N	-	-	30.5	Y	N	N
A1-2-31	29	116.5	A1-2	-	35.7	0	60.4	62.1	21.9	45	0	64.4	64.4	70	N	-	-	28.7	Y	N	N
A1-2-31	30	119.5	A1-2	-	38	0	60.4	62	22.9	45.9	0	64.3	64.4	70	N	-	-	26.4	Y	N	N
A1-2-31	31	122.5	A1-2	-	40.9	0	60.4	61.8	23.8	46.8	0	64.2	64.3	70	N	-	-	23.4	Y	N	N
A1-2-31	32	125.5	A1-2	-	44.9	0	60.4	61.7	24.7	47.8	0	64.2	64.2	70	N	-	-	19.3	Y	N	N
A1-2-31	33	128.5	A1-2	-	48.3	0	60.3	61.6	25.8	49	0	64.2	64.3	70	N	-	-	16.0	Y	N	N
A1-2-31	34	131.5	A1-2	-	49	0	60.3	61.5	26.9	50.3	0	64.1	64.3	70	N	-	-	15.3	Y	N	N
A1-2-31	35	134.5	A1-2	-	49.2	0	60.3	61.4	27.9	51.9	0	64.2	64.3	70	N	-	-	15.1	Y	N	N
A1-2-31	36	137.5	A1-2	-	49.3	0	60.3	61.3	29.1	54.2	0	64.3	64.4	70	N	-	-	15.1	Y	N	N
A1-2-32	1	32.5	A1-2	-	23.2	0	24.4	67.1	55.5	39.5	0	67.4	67.4	70	N	-	-	44.2	Y	N	N
A1-2-32	2	35.5	A1-2	-	23.2	0	24.4	66.8	55.2	39.5	0	67.1	67.1	70	N	-	-	43.9	Y	N	N
A1-2-32	3	38.5	A1-2	-	23.2	0	24.4	66.5	54.9	39.6	0	66.8	66.8	70	N	-	-	43.6	Y	N	N
A1-2-32	4	41.5	A1-2	-	23.2	0	24.4	66.2	54.6	39.6	0	66.5	66.5	70	N	-	-	43.3	Y	N	N
A1-2-32	5	44.5	A1-2	-	23.2	0	24.4	65.8	54.3	39.7	0	66.1	66.1	70	N	-	-	42.9	Y	N	N
A1-2-32	6	47.5	A1-2	-	23.2	0	24.4	65.5	54	39.8	0	65.8	65.8	70	N	-	-	42.6	Y	N	N
A1-2-32	7	50.5	A1-2	-	23.1	0	24.4	65.2	53.7	40	0	65.5	65.5	70	N	-	-	42.4	Y	N	N
A1-2-32	8	53.5	A1-2	-	23.1	0	24.3	64.9	53.4	40.1	0	65.2	65.2	70	N	-	-	42.1	Y	N	N
A1-2-32	9	56.5	A1-2	-	23.1	0	24.3	64.6	53.1	40.2	0	64.9	64.9	70	N	-	-	41.8	Y	N	N
A1-2-32	10	59.5	A1-2	-	23.1	0	24.3	64.4	52.8	40.3	0	64.7	64.7	70	N	-	-	41.6	Y	N	N
A1-2-32	11	62.5	A1-2	-	23.1	0	24.3	64.1	52.6	40.4	0	64.4	64.4	70	N	-	-	41.3	Y	N	N
A1-2-32	12	65.5	A1-2	-	23.1	0	24.3	63.9	52.3	40.5	0	64.2	64.2	70	N	-	-	41.1	Y	N	N
A1-2-32	13	68.5	A1-2	-	23.1	0	24.3	63.6	52.1	40.5	0	64	64.0	70	N	-	-	40.9	Y	N	N
A1-2-32	14	71.5	A1-2	-	23.1	0	24.3	63.4	51.9	40.6	0	63.8	63.8	70	N	-	-	40.7	Y	N	N
A1-2-32	15	74.5	A1-2	-	23.1	0	24.3	63.3	51.7	40.6	0	63.6	63.6	70	N	-	-	40.5	Y	N	N
A1-2-32	16	77.5	A1-2	-	23.1	0	24.3	63.1	51.5	40.7	0	63.4	63.4	70	N	-	-	40.3	Y	N	N
A1-2-32	17	80.5	A1-2	-	23.1	0	24.2	62.9	51.3	40.8	0	63.2	63.2	70	N	-	-	40.1	Y	N	N
A1-2-32	18	83.5	A1-2	-	23	0	24.2	62.7	51.1	40.8	0	63	63.0	70	N	-	-	40.0	Y	N	N
A1-2-32	19	86.5	A1-2	-	23	0	24.2	62.5	50.9	40.9	0	62.8	62.8	70	N	-	-	39.8	Y	N	N
A1-2-32	20	89.5	A1-2	-	22.9	0	24.2	62.3	50.7	41	0	62.6	62.6	70	N	-	-	39.7	Y	N	N
A1-2-32	21	92.5	A1-2	-	23.2	0	24.2	62.2	50.6	41.1	0	62.5	62.5	70	N	-	-	39.3	Y	N	N
A1-2-32	22	95.5	A1-2	-	23.2	0	24.1	62	50.4	41.2	0	62.3	62.3	70	N	-	-	39.1	Y	N	N
A1-2-32	23	98.5	A1-2	-	23.4	0	24.2	61.8	50.2	41.4	0	62.1	62.1	70	N	-	-	38.7	Y	N	N
A1-2-32	24	101.5	A1-2	-	23.8	0	24.3	61.7	50.1	41.5	0	62	62.0	70	N	-	-	38.2	Y	N	N
A1-2-32	25	104.5	A1-2	-	24.2	0	24.5	61.5	49.9	41.7	0	61.9	61.9	70	N	-	-	37.7	Y	N	N
A1-2-32	26	107.5	A1-2	-	24.7	0	24.7	61.5	49.8	42	0	61.8	61.8	70	N	-	-	37.1	Y	N	N
A1-2-32	27	110.5	A1-2	-	25.2	0	24.8	61.3	49.7	42.2	0	61.6	61.6	70	N	-	-	36.4	Y	N	N
A1-2-32	28	113.5	A1-2	-	25.9	0	25	61.2	49.5	42.5	0	61.5	61.5	70	N	-	-	35.6	Y	N	N
A1-2-32	29	116.5	A1-2	-	26.8	0	25.2	61.1	49.4	42.8	0	61.5	61.5	70	N	-	-	34.7	Y	N	N
A1-2-32	30	119.5	A1-2	-	27.6	0	25.4	60.9	49.3	42.9	0	61.3	61.3	70	N	-	-	33.7	Y	N	N
A1-2-32	31	122.5	A1-2	-	28.6	0	25.8	60.9	49.1	43	0	61.2	61.2	70	N	-	-	32.6	Y	N	N
A1-2-32	32	125.5	A1-2	-	29.6	0	26.2	60.8	49	43.4	0	61.1	61.1	70	N	-	-	31.5	Y	N	N
A1-2-32	33	128.5	A1-2	-	30.8	0	26.5	60.7	48.9	43.8	0	61.1	61.1	70	N	-	-	30.3	Y	N	N
A1-2-32	34	131.5	A1-2	-	32	0	27	60.6	48.8	44.3	0	61	61.0	70	N	-	-	29.0	Y	N	N
A1-2-32	35	134.5	A1-2	-	33.6	0	27.5	60.5	48.7	44.8	0	60.9	60.9	70	N	-	-	27.3	Y	N	N
A1-2-32	36	137.5	A1-2	-	35.4	0	28.1	60.4	48.6	45.4	0	60.8	60.8	70	N	-	-	25.4	Y	N	N
A1-2-33	1	37	A1-2	-	23.1	0	49.2	66.9	14.2	40.4	0	67	67.0	70	N	-	-	43.9	Y	N	N
A1-2-33	2	40.1	A1-2	-	23.1	0	49.5	66.7	14.2	40.4	0	66.8	66.8	70	N	-	-	43.7	Y	N	N
A1-2-33	3	43.2	A1-2	-	23.1	0	49.8	66.4	14.2	40.4	0	66.5	66.5	70	N	-	-	43.4	Y	N	N
A1-2-33	4	46.3	A1-2	-	23.1	0	50.1	66.2	14.2	40.4	0	66.3	66.3	70	N	-	-	43.2	Y	N	N
A1-2-33	5	49.4	A1-2	-	23.1	0	50.4	66	14.2	40.4	0	66.2	66.2	70	N	-	-	43.1	Y	N	N
A1-2-33	6	52.5	A1-2	-	23.1	0	50.7	65.8	14.2	40.4	0	65.9	65.9	70	N	-	-	42.8	Y	N	N
A1-2-33	7	55.6	A1-2	-	23.1	0	51	65.6	14.2	40.4	0	65.7	65.7	70	N	-	-	42.6	Y	N	N
A1-2-33	8	58.7	A1-2	-	23.1	0	51.2	65.4	14.2	40.4	0	65.5	65.5	70	N	-	-	42.4	Y	N	N
A1-2-33	9	61.8	A1-2	-	23.1	0	51.4	65.1	14.2	40.4	0	65.3	65.3	70	N	-	-	42.2	Y	N	N
A1-2-33	10	64.9	A1-2	-	23.1	0	51.6	64.9	14.2	40.3	0	65.1	65.1	70	N	-	-	42.0	Y	N	N
A1-2-33	11	68	A1-2	-	23	0	51.7	64.7	14.2	40.3	0	64.9	64.9	70	N	-	-	41.9	Y	N	N
A1-2-33	12	71.1	A1-2	-	23	0	52	64.5	14.1	40.3	0	64.7	64.7	70	N	-	-	41.7	Y	N	N
A1-2-33	13	74.2	A1-2	-	23	0	52.1	64.3	14.1	40.3	0	64.6	64.6	70	N	-	-	41.6	Y	N	N
A1-2-33	14	77.3	A1-2	-	23	0	52.2	64.1	14.1	40.3	0	64.4	64.4	70	N	-	-	41.4	Y	N	N
A1-2-33	15	80.4	A1-2	-	23	0	52.3	63.9	14.1	40.3	0	64.2	64.2	70	N	-	-	41.2	Y	N	N
A1-2-33	16	83.5	A1-2	-	23	0	52.4	63.8	14.1	40.3	0	64.1	64.1	70	N	-	-	41.1	Y	N	N
A1-2-33	17	86.6	A1-2	-	22.9	0	52.5	63.6	13.9	40.3	0	64	64.0	70	N	-	-	41.1	Y	N	N
A1-2-33	18	89.7	A1-2	-	22.8	0	52.5	63.4	14	40.2	0	63.8	63.8	70	N	-	-	41.0	Y	N	N
A1-2-33	19	92.8	A1-2	-	23	0	52.5	63.3	14.1	40.2	0	63.7	63.7	70	N	-	-	40.7	Y	N	N
A1-2-33	20	95.9	A1-2	-	23.2	0	52.6	63.1	14.1	40.3	0	63.5	63.5	70	N	-	-	40.3	Y	N	N
A1-2-33	21	99	A1-2	-	23.6	0	52.6	63	14.5	40.4	0	63.4	63.4	70	N	-	-	39.8	Y	N	N
A1-2-33	22	102.1	A1-2	-	23.9	0	52.7	62.9	15.1	40.6	0	63.3	63.3	70	N	-	-	39.4	Y	N	N
A1-2-33	23	105.2	A1-2	-	24.4	0	52.7	62.8	15.7	41	0	63.2	63.2	70	N	-	-	38.8	Y	N	N
A1-2-33	24	108.3	A1-2	-	25	0	52.7	62.6	16.4	41.4	0	63.1	63.1	70	N	-	-	38.1	Y	N	N
A1-2-33	25	111.4	A1-2	-	25.7	0	52.7	62.5	17	41.9	0	63	63.0	70	N	-	-	37.3	Y	N	N
A1-2-33	26	114.5	A1-2	-	26.4	0	52.8	62.4	17.7	42.4	0	62.9	62.9	70	N	-	-	36.5	Y	N	N
A1-2-33	27	117.6	A1-2	-	27.1	0	52.8	62.3	18.4	43	0	62.8	62.8	70	N	-	-	35.7	Y	N	N
A1-2-33	28	120.7	A1-2	-	28	0	52.8	62.2	19	43.6	0	62.7	62.7	70	N	-	-	34.7	Y	N	N
A1-2-33	29	123.8	A1-2	-	28.9	0	52.8	62.1	19.7	44.3	0	62.6	62.6	70	N	-	-	33.7	Y	N	N
A1-2-33	30	126.9	A1-2	-	29.8	0	52.8	62	20.5	45	0	62.6	62.6	70	N	-	-	32.8	Y	N	N
A1-2-33	31	130	A1-2	-	30.7	0	52.8	61.8	21.2	45.9	0	62.4	62.4	70	N	-	-	31.7	Y	N	N
A1-2-33	32	133.1	A1-2	-	31.8	0	52.8	61.7	22	46.7	0	62.4	62.4	70	N	-	-	30.6	Y	N	N
A1-2-33	33	136.2	A1-2	-	32.8	0	52.8	61.6	22.8	47.7	0	62.3	62.3	70	N	-	-	29.5	Y	N	N
A1-2-33	34	139.3	A1-2	-	34.2	0	52.8	61.6	23.6	48.7	0	62.3	62.3	70	N	-	-	28.1	Y	N	N
A1-2-34	1	37	A1-2	-	16.3	0	23.4	64.9	61.4	39.6	0	66.5	66.5	70	N	-	-	50.2	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	New Roads[2]					New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
A1-2-34	2	40.1	A1-2	-	16.3	0	23.4	64.7	61.2	39.6	0	66.3	66.3	70	N	-	-	50.0	Y	N	N
A1-2-34	3	43.2	A1-2	-	16.3	0	23.4	64.5	61.1	39.6	0	66.1	66.1	70	N	-	-	49.8	Y	N	N
A1-2-34	4	46.3	A1-2	-	16.3	0	23.4	64.3	60.9	39.7	0	65.9	65.9	70	N	-	-	49.6	Y	N	N
A1-2-34	5	49.4	A1-2	-	16.2	0	23.4	64	60.7	39.6	0	65.7	65.7	70	N	-	-	49.5	Y	N	N
A1-2-34	6	52.5	A1-2	-	16.2	0	23.4	63.8	60.5	39.6	0	65.5	65.5	70	N	-	-	49.3	Y	N	N
A1-2-34	7	55.6	A1-2	-	16.2	0	23.3	63.6	60.3	39.6	0	65.3	65.3	70	N	-	-	49.1	Y	N	N
A1-2-34	8	58.7	A1-2	-	16.2	0	23.3	63.4	60.1	39.6	0	65.1	65.1	70	N	-	-	48.9	Y	N	N
A1-2-34	9	61.8	A1-2	-	16.2	0	23.3	63.2	59.9	39.6	0	64.9	64.9	70	N	-	-	48.7	Y	N	N
A1-2-34	10	64.9	A1-2	-	16.2	0	23.3	63	59.7	39.6	0	64.7	64.7	70	N	-	-	48.5	Y	N	N
A1-2-34	11	68	A1-2	-	16.2	0	23.3	62.8	59.5	39.6	0	64.5	64.5	70	N	-	-	48.3	Y	N	N
A1-2-34	12	71.1	A1-2	-	16.2	0	23.3	62.6	59.4	39.6	0	64.3	64.3	70	N	-	-	48.1	Y	N	N
A1-2-34	13	74.2	A1-2	-	16.2	0	23.3	62.4	59.2	39.6	0	64.1	64.1	70	N	-	-	47.9	Y	N	N
A1-2-34	14	77.3	A1-2	-	16.2	0	23.3	62.2	59	39.6	0	63.9	63.9	70	N	-	-	47.7	Y	N	N
A1-2-34	15	80.4	A1-2	-	16.2	0	23.3	62.1	58.8	39.6	0	63.8	63.8	70	N	-	-	47.6	Y	N	N
A1-2-34	16	83.5	A1-2	-	16.1	0	23.2	62	58.6	39.6	0	63.6	63.6	70	N	-	-	47.5	Y	N	N
A1-2-34	17	86.6	A1-2	-	16.1	0	23.2	61.8	58.5	39.6	0	63.5	63.5	70	N	-	-	47.4	Y	N	N
A1-2-34	18	89.7	A1-2	-	15.9	0	23.2	61.7	58.3	39.5	0	63.3	63.3	70	N	-	-	47.4	Y	N	N
A1-2-34	19	92.8	A1-2	-	16.2	0	23.1	61.5	58.1	39.5	0	63.2	63.2	70	N	-	-	47.0	Y	N	N
A1-2-34	20	95.9	A1-2	-	16.3	0	23.2	61.3	58	39.6	0	63	63.0	70	N	-	-	46.7	Y	N	N
A1-2-34	21	99	A1-2	-	16.4	0	23.3	61.2	57.9	39.7	0	62.9	62.9	70	N	-	-	46.5	Y	N	N
A1-2-34	22	102.1	A1-2	-	16.4	0	23.4	61.1	57.7	39.8	0	62.7	62.7	70	N	-	-	46.3	Y	N	N
A1-2-34	23	105.2	A1-2	-	16.4	0	23.5	61	57.6	39.9	0	62.7	62.7	70	N	-	-	46.3	Y	N	N
A1-2-34	24	108.3	A1-2	-	16.4	0	23.5	60.9	57.4	40.1	0	62.6	62.6	70	N	-	-	46.2	Y	N	N
A1-2-34	25	111.4	A1-2	-	16.5	0	23.6	60.8	57.4	40.3	0	62.4	62.4	70	N	-	-	45.9	Y	N	N
A1-2-34	26	114.5	A1-2	-	16.3	0	23.7	60.7	57.2	40.5	0	62.3	62.3	70	N	-	-	46.0	Y	N	N
A1-2-34	27	117.6	A1-2	-	16.3	0	23.8	60.6	57.1	40.8	0	62.2	62.2	70	N	-	-	45.9	Y	N	N
A1-2-34	28	120.7	A1-2	-	16.9	0	23.8	60.5	57	41.1	0	62.1	62.1	70	N	-	-	45.2	Y	N	N
A1-2-34	29	123.8	A1-2	-	17.2	0	23.9	60.4	56.9	41.5	0	62	62.0	70	N	-	-	44.8	Y	N	N
A1-2-34	30	126.9	A1-2	-	17.7	0	24	60.3	56.7	41.9	0	61.9	61.9	70	N	-	-	44.2	Y	N	N
A1-2-34	31	130	A1-2	-	18.2	0	24.2	60.2	56.6	42.4	0	61.8	61.8	70	N	-	-	43.6	Y	N	N
A1-2-34	32	133.1	A1-2	-	18.7	0	24.3	60.1	56.5	43	0	61.8	61.8	70	N	-	-	43.1	Y	N	N
A1-2-34	33	136.2	A1-2	-	19.2	0	24.5	60	56.4	43.6	0	61.7	61.7	70	N	-	-	42.5	Y	N	N
A1-2-34	34	139.3	A1-2	-	19.7	0	24.6	59.9	56.3	44.1	0	61.6	61.6	70	N	-	-	41.9	Y	N	N
A1-4a-1	1	37.1	A1-4a	-	0	0	52.6	54.7	57	26.6	0	59.9	59.9	70	N	-	-	59.9	Y	N	N
A1-4a-1	2	40.2	A1-4a	-	0	0	52.7	54.8	57	26.6	0	59.9	59.9	70	N	-	-	59.9	Y	N	N
A1-4a-1	3	43.3	A1-4a	-	0	0	52.7	54.8	56.9	26.6	0	59.9	59.9	70	N	-	-	59.9	Y	N	N
A1-4a-1	4	46.4	A1-4a	-	0	0	52.7	54.8	56.9	26.6	0	59.9	59.9	70	N	-	-	59.9	Y	N	N
A1-4a-1	5	49.5	A1-4a	-	0	0	52.7	54.8	56.9	26.6	0	59.9	59.9	70	N	-	-	59.9	Y	N	N
A1-4a-1	6	52.6	A1-4a	-	0	0	52.7	54.7	56.8	26.6	0	59.8	59.8	70	N	-	-	59.8	Y	N	N
A1-4a-1	7	55.7	A1-4a	-	0	0	52.7	54.7	56.8	26.6	0	59.8	59.8	70	N	-	-	59.8	Y	N	N
A1-4a-1	8	58.8	A1-4a	-	0	0	52.7	54.7	56.7	26.5	0	59.8	59.8	70	N	-	-	59.8	Y	N	N
A1-4a-1	9	61.9	A1-4a	-	0	0	52.7	54.7	56.7	26.5	0	59.8	59.8	70	N	-	-	59.8	Y	N	N
A1-4a-1	10	65	A1-4a	-	0	0	52.7	54.7	56.6	26.5	0	59.7	59.7	70	N	-	-	59.7	Y	N	N
A1-4a-1	11	68.1	A1-4a	-	0	0	52.7	54.7	56.6	26.5	0	59.7	59.7	70	N	-	-	59.7	Y	N	N
A1-4a-1	12	71.2	A1-4a	-	0	0	52.7	54.6	56.5	26.5	0	59.6	59.6	70	N	-	-	59.6	Y	N	N
A1-4a-1	13	74.3	A1-4a	-	0	0	52.8	54.5	56.4	26.5	0	59.6	59.6	70	N	-	-	59.6	Y	N	N
A1-4a-1	14	77.4	A1-4a	-	0	0	52.8	54.4	56.4	26.5	0	59.5	59.5	70	N	-	-	59.5	Y	N	N
A1-4a-1	15	80.5	A1-4a	-	0	0	52.8	54.3	56.3	26.5	0	59.5	59.5	70	N	-	-	59.5	Y	N	N
A1-4a-1	16	83.6	A1-4a	-	0	0	52.8	54.3	56.3	26.4	0	59.5	59.5	70	N	-	-	59.5	Y	N	N
A1-4a-1	17	86.7	A1-4a	-	0	0	52.8	54.2	56.2	26.4	0	59.4	59.4	70	N	-	-	59.4	Y	N	N
A1-4a-1	18	89.8	A1-4a	-	0	0	52.8	54.1	56.1	26.4	0	59.3	59.3	70	N	-	-	59.3	Y	N	N
A1-4a-1	19	92.9	A1-4a	-	0	0	52.7	54.1	56	26.4	0	59.3	59.3	70	N	-	-	59.3	Y	N	N
A1-4a-1	20	96	A1-4a	-	0	0	52.7	54	56	26.4	0	59.2	59.2	70	N	-	-	59.2	Y	N	N
A1-4a-1	21	99.1	A1-4a	-	0	0	52.7	53.9	55.9	26.4	0	59.2	59.2	70	N	-	-	59.2	Y	N	N
A1-4a-1	22	102.2	A1-4a	-	0	0	52.7	53.9	55.8	26.4	0	59.1	59.1	70	N	-	-	59.1	Y	N	N
A1-4a-1	23	105.3	A1-4a	-	0	0	52.7	53.8	55.8	26.5	0	59.1	59.1	70	N	-	-	59.1	Y	N	N
A1-4a-1	24	108.4	A1-4a	-	0	0	52.7	53.8	55.7	26.5	0	59	59.0	70	N	-	-	59.0	Y	N	N
A1-4a-1	25	111.5	A1-4a	-	0	0	52.7	53.8	55.6	26.4	0	59	59.0	70	N	-	-	59.0	Y	N	N
A1-4a-1	26	114.6	A1-4a	-	0	0	52.7	53.7	55.5	26.3	0	58.9	58.9	70	N	-	-	58.9	Y	N	N
A1-4a-1	27	117.7	A1-4a	-	0	0	52.7	53.6	55.5	26.4	0	58.9	58.9	70	N	-	-	58.9	Y	N	N
A1-4a-2	1	37.1	A1-4a	-	0	0	50.4	54.8	56.8	25.8	0	59.5	59.5	70	N	-	-	59.5	Y	N	N
A1-4a-2	2	40.2	A1-4a	-	0	0	50.6	54.9	56.8	25.8	0	59.6	59.6	70	N	-	-	59.6	Y	N	N
A1-4a-2	3	43.3	A1-4a	-	0	0	50.7	54.8	56.8	25.8	0	59.5	59.5	70	N	-	-	59.5	Y	N	N
A1-4a-2	4	46.4	A1-4a	-	0	0	50.7	54.9	56.8	25.8	0	59.5	59.5	70	N	-	-	59.5	Y	N	N
A1-4a-2	5	49.5	A1-4a	-	0	0	50.7	54.9	56.7	25.8	0	59.5	59.5	70	N	-	-	59.5	Y	N	N
A1-4a-2	6	52.6	A1-4a	-	0	0	50.7	54.9	56.7	25.8	0	59.5	59.5	70	N	-	-	59.5	Y	N	N
A1-4a-2	7	55.7	A1-4a	-	0	0	50.8	54.9	56.6	25.8	0	59.5	59.5	70	N	-	-	59.5	Y	N	N
A1-4a-2	8	58.8	A1-4a	-	0	0	50.7	54.9	56.6	25.8	0	59.4	59.4	70	N	-	-	59.4	Y	N	N
A1-4a-2	9	61.9	A1-4a	-	0	0	50.7	54.8	56.5	25.7	0	59.4	59.4	70	N	-	-	59.4	Y	N	N
A1-4a-2	10	65	A1-4a	-	0	0	50.7	54.7	56.5	25.7	0	59.4	59.4	70	N	-	-	59.4	Y	N	N
A1-4a-2	11	68.1	A1-4a	-	0	0	50.8	54.6	56.5	25.7	0	59.3	59.3	70	N	-	-	59.3	Y	N	N
A1-4a-2	12	71.2	A1-4a	-	0	0	50.8	54.7	56.5	25.7	0	59.3	59.3	70	N	-	-	59.3	Y	N	N
A1-4a-2	13	74.3	A1-4a	-	0	0	50.8	54.6	56.4	25.7	0	59.2	59.2	70	N	-	-	59.2	Y	N	N
A1-4a-2	14	77.4	A1-4a	-	0	0	50.8	54.5	56.3	25.7	0	59.2	59.2	70	N	-	-	59.2	Y	N	N
A1-4a-2	15	80.5	A1-4a	-	0	0	50.8	54.5	56.3	25.7	0	59.2	59.2	70	N	-	-	59.2	Y	N	N
A1-4a-2	16	83.6	A1-4a	-	0	0	50.8	54.4	56.2	25.7	0	59.1	59.1	70	N	-	-	59.1	Y	N	N
A1-4a-2	17	86.7	A1-4a	-	0	0	50.8	54.3	56.1	25.7	0	59	59.0	70	N	-	-	59.0	Y	N	N
A1-4a-2	18	89.8	A1-4a	-	0	0	50.8	54.2	56	25.7	0	59	59.0	70	N	-	-	59.0	Y	N	N
A1-4a-2	19	92.9	A1-4a	-	0	0	50.8	54.2	56	25.6	0	58.9	58.9	70	N	-	-	58.9	Y	N	N
A1-4a-2	20	96	A1-4a	-	0	0	50.8	54.1	55.9	25.6	0	58.8	58.8	70	N	-	-	58.8	Y	N	N
A1-4a-2	21	99.1	A1-4a	-	0	0	50.8	54.1	55.8	25.5	0	58.8	58.8	70	N	-	-	58.8	Y	N	N
A1-4a-2	22	102.2	A1-4a	-	0	0	50.8	54	55.7	25.6	0	58.7	58.7	70	N	-	-	58.7	Y	N	N
A1-4a-2	23	105.3	A1-4a	-	0	0	50.8	53.9	55.7	25.5	0	58.6	58.6	70	N	-	-	58.6	Y	N	N
A1-4a-2	24	108.4	A1-4a	-	0	0	50.8	53.8	55.6	25.5	0	58.6	58.6	70	N	-	-	58.6	Y	N	N
A1-4a-2	25	111.5	A1-4a	-	0	0	50.8	53.8	55.5	25.6	0	58.5	58.5	70	N	-	-	58.5	Y	N	N
A1-4a-2	26	114.6	A1-4a	-	0	0	50.8	53.7	55.4	25.5	0	58.5	58.5	70	N	-	-	58.5	Y	N	N
A1-4a-2	27	117.7	A1-4a	-	0	0	50.8	53.6	55.4	25.6	0	58.4	58.4	70	N	-	-	58.4	Y	N	N
A1-4a-3	1	37.1	A1-4a	-	14.4	0	48.5	55.2	56.5	27.3	0	59.3	59.3	70	N	-	-	44.9	Y	N	N
A1-4a-3	2	40.2	A1-4a	-	14.3	0	48.7	55.2	56.6	27.3	0	59.3	59.3	70	N	-	-	45.0	Y	N	N
A1-4a-3	3	43.3	A1-4a	-	14.3	0	48.7	55.2	56.5	27.3	0	59.3	59.3	70	N	-	-	45.0	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
A1-4a-3	4	46.4	A1-4a	-	14.3	0	48.7	55.2	56.5	27.3	0	59.3	59.3	70	N	-	-	45.0	Y	N	N
A1-4a-3	5	49.5	A1-4a	-	14.3	0	48.8	55.2	56.5	27.3	0	59.3	59.3	70	N	-	-	45.0	Y	N	N
A1-4a-3	6	52.6	A1-4a	-	14.3	0	48.8	55.2	56.4	27.3	0	59.2	59.2	70	N	-	-	44.9	Y	N	N
A1-4a-3	7	55.7	A1-4a	-	14.3	0	48.8	55.2	56.4	27.3	0	59.3	59.3	70	N	-	-	45.0	Y	N	N
A1-4a-3	8	58.8	A1-4a	-	14.3	0	48.8	55.2	56.3	27.3	0	59.2	59.2	70	N	-	-	44.9	Y	N	N
A1-4a-3	9	61.9	A1-4a	-	14.3	0	48.8	55.2	56.4	27.3	0	59.3	59.3	70	N	-	-	45.0	Y	N	N
A1-4a-3	10	65	A1-4a	-	14.3	0	48.8	55.1	56.4	27.3	0	59.2	59.2	70	N	-	-	44.9	Y	N	N
A1-4a-3	11	68.1	A1-4a	-	14.3	0	48.9	55.1	56.4	27.3	0	59.2	59.2	70	N	-	-	44.9	Y	N	N
A1-4a-3	12	71.2	A1-4a	-	14.3	0	48.9	55.1	56.4	27.2	0	59.2	59.2	70	N	-	-	44.9	Y	N	N
A1-4a-3	13	74.3	A1-4a	-	14.3	0	48.8	55.1	56.3	27.2	0	59.2	59.2	70	N	-	-	44.9	Y	N	N
A1-4a-3	14	77.4	A1-4a	-	14.3	0	48.9	55.2	56.2	27.2	0	59.2	59.2	70	N	-	-	44.9	Y	N	N
A1-4a-3	15	80.5	A1-4a	-	14.2	0	48.9	55.3	56.2	27.2	0	59.2	59.2	70	N	-	-	45.0	Y	N	N
A1-4a-3	16	83.6	A1-4a	-	14.2	0	48.9	55.3	56.1	27.2	0	59.2	59.2	70	N	-	-	45.0	Y	N	N
A1-4a-3	17	86.7	A1-4a	-	14.2	0	48.9	55.3	56	27.2	0	59.1	59.1	70	N	-	-	44.9	Y	N	N
A1-4a-3	18	89.8	A1-4a	-	14.1	0	48.9	55.3	55.9	27.2	0	59.1	59.1	70	N	-	-	45.0	Y	N	N
A1-4a-3	19	92.9	A1-4a	-	14.1	0	48.9	55.4	55.9	27.2	0	59.1	59.1	70	N	-	-	45.0	Y	N	N
A1-4a-3	20	96	A1-4a	-	14.3	0	48.9	55.3	55.8	27.2	0	59	59.0	70	N	-	-	44.7	Y	N	N
A1-4a-3	21	99.1	A1-4a	-	14.4	0	48.9	55.3	55.7	27	0	59	59.0	70	N	-	-	44.6	Y	N	N
A1-4a-3	22	102.2	A1-4a	-	14.4	0	48.9	55.2	55.6	27.1	0	58.9	58.9	70	N	-	-	44.5	Y	N	N
A1-4a-3	23	105.3	A1-4a	-	14.5	0	48.9	55.2	55.6	27	0	58.9	58.9	70	N	-	-	44.4	Y	N	N
A1-4a-3	24	108.4	A1-4a	-	14.4	0	48.9	55.3	55.5	27.2	0	58.8	58.8	70	N	-	-	44.4	Y	N	N
A1-4a-3	25	111.5	A1-4a	-	14.4	0	48.9	55.2	55.4	27.2	0	58.8	58.8	70	N	-	-	44.4	Y	N	N
A1-4a-3	26	114.6	A1-4a	-	14.5	0	48.9	55.2	55.3	27	0	58.7	58.7	70	N	-	-	44.2	Y	N	N
A1-4a-3	27	117.7	A1-4a	-	14.5	0	48.9	55.2	55.3	27.3	0	58.7	58.7	70	N	-	-	44.2	Y	N	N
A1-4a-4	1	37.1	A1-4a	-	19.7	0	49.9	57.9	54.2	37.1	0	60	60.0	70	N	-	-	40.3	Y	N	N
A1-4a-4	2	40.2	A1-4a	-	19.7	0	50.2	58.6	59.5	37.1	0	62.4	62.4	70	N	-	-	42.7	Y	N	N
A1-4a-4	3	43.3	A1-4a	-	19.7	0	50.4	58.4	59.5	37.1	0	62.3	62.3	70	N	-	-	42.6	Y	N	N
A1-4a-4	4	46.4	A1-4a	-	19.7	0	50.6	58.3	59.3	37	0	62.2	62.2	70	N	-	-	42.5	Y	N	N
A1-4a-4	5	49.5	A1-4a	-	19.7	0	50.7	58.1	59.1	37	0	62	62.0	70	N	-	-	42.3	Y	N	N
A1-4a-4	6	52.6	A1-4a	-	19.7	0	50.8	57.9	58.9	37	0	61.8	61.8	70	N	-	-	42.1	Y	N	N
A1-4a-4	7	55.7	A1-4a	-	19.7	0	50.9	57.8	58.8	37	0	61.7	61.7	70	N	-	-	42.0	Y	N	N
A1-4a-4	8	58.8	A1-4a	-	19.7	0	51	57.6	58.6	37	0	61.5	61.5	70	N	-	-	41.8	Y	N	N
A1-4a-4	9	61.9	A1-4a	-	19.7	0	51.1	57.4	58.4	37	0	61.4	61.4	70	N	-	-	41.7	Y	N	N
A1-4a-4	10	65	A1-4a	-	19.7	0	51.1	57.3	58.2	37	0	61.2	61.2	70	N	-	-	41.5	Y	N	N
A1-4a-4	11	68.1	A1-4a	-	19.6	0	51.1	57.1	58	37	0	61.1	61.1	70	N	-	-	41.5	Y	N	N
A1-4a-4	12	71.2	A1-4a	-	19.6	0	51.2	57	57.9	37	0	61	61.0	70	N	-	-	41.4	Y	N	N
A1-4a-4	13	74.3	A1-4a	-	19.6	0	51.2	56.8	57.7	37	0	60.8	60.8	70	N	-	-	41.2	Y	N	N
A1-4a-4	14	77.4	A1-4a	-	19.6	0	51.3	56.6	57.5	37	0	60.6	60.6	70	N	-	-	41.0	Y	N	N
A1-4a-4	15	80.5	A1-4a	-	19.6	0	51.3	56.5	57.4	36.9	0	60.5	60.5	70	N	-	-	40.9	Y	N	N
A1-4a-4	16	83.6	A1-4a	-	19.6	0	51.3	56.3	57.2	36.9	0	60.4	60.4	70	N	-	-	40.8	Y	N	N
A1-4a-4	17	86.7	A1-4a	-	19.6	0	51.4	56.1	57.1	36.9	0	60.3	60.3	70	N	-	-	40.7	Y	N	N
A1-4a-4	18	89.8	A1-4a	-	19.6	0	51.4	56	56.9	36.9	0	60.1	60.1	70	N	-	-	40.5	Y	N	N
A1-4a-4	19	92.9	A1-4a	-	19.5	0	51.4	55.9	56.8	36.9	0	60	60.0	70	N	-	-	40.5	Y	N	N
A1-4a-4	20	96	A1-4a	-	19.5	0	51.4	55.8	56.6	37	0	59.9	59.9	70	N	-	-	40.4	Y	N	N
A1-4a-4	21	99.1	A1-4a	-	19.7	0	51.3	55.7	56.5	37.1	0	59.8	59.8	70	N	-	-	40.1	Y	N	N
A1-4a-4	22	102.2	A1-4a	-	19.7	0	51.3	55.5	56.4	37.2	0	59.7	59.7	70	N	-	-	40.0	Y	N	N
A1-4a-4	23	105.3	A1-4a	-	19.8	0	51.3	55.4	56.2	37.4	0	59.5	59.5	70	N	-	-	39.7	Y	N	N
A1-4a-4	24	108.4	A1-4a	-	19.7	0	51.3	55.3	56.1	37.7	0	59.5	59.5	70	N	-	-	39.8	Y	N	N
A1-4a-4	25	111.5	A1-4a	-	19.8	0	51.3	55.1	56	38.1	0	59.4	59.4	70	N	-	-	39.6	Y	N	N
A1-4a-4	26	114.6	A1-4a	-	19.8	0	51.3	55.1	55.8	38.5	0	59.3	59.3	70	N	-	-	39.5	Y	N	N
A1-4a-4	27	117.7	A1-4a	-	20.1	0	51.3	55	55.7	38.9	0	59.2	59.2	70	N	-	-	39.1	Y	N	N
A1-4a-5	1	37.1	A1-4a	-	19.9	0	50.6	58.9	62.3	44.3	0	64.2	64.2	70	N	-	-	44.3	Y	N	N
A1-4a-5	2	40.2	A1-4a	-	19.9	0	50.8	58.8	62.7	45.2	0	64.4	64.4	70	N	-	-	44.5	Y	N	N
A1-4a-5	3	43.3	A1-4a	-	19.9	0	51	58.7	62.5	46	0	64.3	64.3	70	N	-	-	44.4	Y	N	N
A1-4a-5	4	46.4	A1-4a	-	19.9	0	51.1	58.5	62.3	47	0	64.1	64.1	70	N	-	-	44.2	Y	N	N
A1-4a-5	5	49.5	A1-4a	-	19.9	0	51.2	58.3	62.1	47.9	0	64	64.0	70	N	-	-	44.1	Y	N	N
A1-4a-5	6	52.6	A1-4a	-	19.8	0	51.3	58.1	61.9	48.8	0	63.8	63.8	70	N	-	-	44.0	Y	N	N
A1-4a-5	7	55.7	A1-4a	-	19.8	0	51.4	58	61.7	49.8	0	63.7	63.7	70	N	-	-	43.9	Y	N	N
A1-4a-5	8	58.8	A1-4a	-	19.8	0	51.6	57.8	61.5	50.9	0	63.6	63.6	70	N	-	-	43.8	Y	N	N
A1-4a-5	9	61.9	A1-4a	-	19.8	0	51.9	57.7	61.3	51.8	0	63.5	63.5	70	N	-	-	43.7	Y	N	N
A1-4a-5	10	65	A1-4a	-	19.8	0	52.1	57.7	61.1	52.5	0	63.4	63.4	70	N	-	-	43.6	Y	N	N
A1-4a-5	11	68.1	A1-4a	-	19.8	0	52.2	57.7	61	52.9	0	63.4	63.4	70	N	-	-	43.6	Y	N	N
A1-4a-5	12	71.2	A1-4a	-	19.8	0	52.3	57.6	60.8	53.3	0	63.3	63.3	70	N	-	-	43.5	Y	N	N
A1-4a-5	13	74.3	A1-4a	-	19.8	0	52.4	57.5	60.6	53.7	0	63.2	63.2	70	N	-	-	43.4	Y	N	N
A1-4a-5	14	77.4	A1-4a	-	19.8	0	52.4	57.4	60.4	54	0	63.2	63.2	70	N	-	-	43.4	Y	N	N
A1-4a-5	15	80.5	A1-4a	-	19.7	0	52.5	57.4	60.2	54.4	0	63.1	63.1	70	N	-	-	43.4	Y	N	N
A1-4a-5	16	83.6	A1-4a	-	19.7	0	52.5	57.3	60.1	54.8	0	63.1	63.1	70	N	-	-	43.4	Y	N	N
A1-4a-5	17	86.7	A1-4a	-	19.7	0	52.5	57.2	59.9	55.2	0	63	63.0	70	N	-	-	43.3	Y	N	N
A1-4a-5	18	89.8	A1-4a	-	19.7	0	52.5	57.3	59.7	55.4	0	63	63.0	70	N	-	-	43.3	Y	N	N
A1-4a-5	19	92.9	A1-4a	-	19.6	0	52.5	57.2	59.6	55.6	0	63	63.0	70	N	-	-	43.4	Y	N	N
A1-4a-5	20	96	A1-4a	-	19.7	0	52.5	57.2	59.4	55.8	0	62.9	62.9	70	N	-	-	43.2	Y	N	N
A1-4a-5	21	99.1	A1-4a	-	19.8	0	52.5	57.1	59.3	56.1	0	62.9	62.9	70	N	-	-	43.1	Y	N	N
A1-4a-5	22	102.2	A1-4a	-	19.8	0	52.6	57.1	59.1	56.3	0	62.9	62.9	70	N	-	-	43.1	Y	N	N
A1-4a-5	23	105.3	A1-4a	-	19.8	0	52.6	57	59	56.8	0	62.9	62.9	70	N	-	-	43.1	Y	N	N
A1-4a-5	24	108.4	A1-4a	-	19.7	0	52.6	57	58.9	57.1	0	62.9	62.9	70	N	-	-	43.2	Y	N	N
A1-4a-5	25	111.5	A1-4a	-	19.9	0	52.6	57	58.7	57.3	0	62.9	62.9	70	N	-	-	43.0	Y	N	N
A1-4a-5	26	114.6	A1-4a	-	20	0	52.5	56.9	58.6	57.6	0	63	63.0	70	N	-	-	43.0	Y	N	N
A1-4a-5	27	117.7	A1-4a	-	20.3	0	52.5	56.9	58.5	57.9	0	63	63.0	70	N	-	-	42.7	Y	N	N
A1-4a-6	1	37.1	A1-4a	-	20	0	52.7	58.6	65.4	44.6	0	66.4	66.4	70	N	-	-	46.4	Y	N	N
A1-4a-6	2	40.2	A1-4a	-	20	0	52.8	58.3	65.3	45.5	0	66.3	66.3	70	N	-	-	46.3	Y	N	N
A1-4a-6	3	43.3	A1-4a	-	20	0	52.9	58	65.8	46.4	0	66.7	66.7	70	N	-	-	46.7	Y	N	N
A1-4a-6	4	46.4	A1-4a	-	20	0	53	57.8	66.1	47.4	0	66.9	66.9	70	N	-	-	46.9	Y	N	N
A1-4a-6	5	49.5	A1-4a	-	20	0	53.1	57.6	66.1	48.4	0	67	67.0	70	N	-	-	47.0	Y	N	N
A1-4a-6	6	52.6	A1-4a	-	20	0	53.1	57.3	65.9	49.4	0	66.7	66.7	70	N	-	-	46.7	Y	N	N
A1-4a-6	7	55.7	A1-4a	-	19.9	0	53.3	57.1	65.6	50.6	0	66.5	66.5	70	N	-	-	46.6	Y	N	N
A1-4a-6	8	58.8	A1-4a	-	19.9	0	53.4	56.9	65.4	51.7	0	66.4	66.4	70	N	-	-	46.5	Y	N	N
A1-4a-6	9	61.9	A1-4a	-	19.9	0	53.6	56.9	65.1	52.6	0	66.2	66.2	70	N	-	-	46.3	Y	N	N
A1-4a-6	10	65	A1-4a	-	19.9	0	53.8	56.9	64.8	53.2	0	66	66.0	70	N	-	-	46.1	Y	N	N
A1-4a-6	11	68.1	A1-4a	-	19.9	0	53.9	56.9	64.6	53.6	0	65.9	65.9	70	N	-	-	46.0	Y	N	N
A1-4a-6	12	71.2	A1-4a	-	19.9	0	54	56.9	64.4	54.1	0	65.8	65.8	70	N	-	-	45.9	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance: C - A dB(A) [D]	Check Project Impact Significance: D ≥ 1dB(A)	Check Direct Mitigation: New Road Contribution dB(A) [E]	Check Direct Mitigation: New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	Check Direct Mitigation: New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)												
A1-4a-6	13	74.3	A1-4a	-	19.9	0	54.1	56.9	64.2	54.4	0	65.6	65.6	70	N	-	-	45.7	Y	N	N
A1-4a-6	14	77.4	A1-4a	-	19.9	0	54.1	56.8	64	54.9	0	65.5	65.5	70	N	-	-	45.6	Y	N	N
A1-4a-6	15	80.5	A1-4a	-	19.8	0	54.1	56.7	63.8	55.2	0	65.4	65.4	70	N	-	-	45.6	Y	N	N
A1-4a-6	16	83.6	A1-4a	-	19.8	0	54.2	56.7	63.6	55.6	0	65.3	65.3	70	N	-	-	45.5	Y	N	N
A1-4a-6	17	86.7	A1-4a	-	19.8	0	54.2	56.8	63.4	55.9	0	65.2	65.2	70	N	-	-	45.4	Y	N	N
A1-4a-6	18	89.8	A1-4a	-	19.8	0	54.2	56.8	63.3	56.1	0	65.2	65.2	70	N	-	-	45.4	Y	N	N
A1-4a-6	19	92.9	A1-4a	-	19.7	0	54.2	56.9	63.1	56.3	0	65.1	65.1	70	N	-	-	45.4	Y	N	N
A1-4a-6	20	96	A1-4a	-	19.9	0	54.2	56.9	62.9	56.6	0	65	65.0	70	N	-	-	45.1	Y	N	N
A1-4a-6	21	99.1	A1-4a	-	19.9	0	54.2	56.9	62.8	57	0	65	65.0	70	N	-	-	45.1	Y	N	N
A1-4a-6	22	102.2	A1-4a	-	19.9	0	54.3	57	62.6	57.3	0	65	65.0	70	N	-	-	45.1	Y	N	N
A1-4a-6	23	105.3	A1-4a	-	20	0	54.3	57	62.4	57.6	0	64.9	64.9	70	N	-	-	44.9	Y	N	N
A1-4a-6	24	108.4	A1-4a	-	20	0	54.3	57.1	62.3	58	0	64.9	64.9	70	N	-	-	44.9	Y	N	N
A1-4a-6	25	111.5	A1-4a	-	19.9	0	54.3	57.1	62.2	58.3	0	64.9	64.9	70	N	-	-	45.0	Y	N	N
A1-4a-6	26	114.6	A1-4a	-	20.1	0	54.3	57.2	62	58.6	0	65	65.0	70	N	-	-	44.9	Y	N	N
A1-4a-6	27	117.7	A1-4a	-	20.6	0	54.3	57.3	61.9	59	0	65	65.0	70	N	-	-	44.4	Y	N	N
A1-4a-7	1	37.1	A1-4a	-	20	0	52.6	57.9	59.4	44.6	0	62.3	62.3	70	N	-	-	42.3	Y	N	N
A1-4a-7	2	40.2	A1-4a	-	20	0	52.8	58	64.6	45.4	0	65.8	65.8	70	N	-	-	45.8	Y	N	N
A1-4a-7	3	43.3	A1-4a	-	20	0	52.8	57.7	66.2	46.4	0	67	67.0	70	N	-	-	47.0	Y	N	N
A1-4a-7	4	46.4	A1-4a	-	20	0	52.9	57.4	66.4	47.3	0	67.2	67.2	70	N	-	-	47.2	Y	N	N
A1-4a-7	5	49.5	A1-4a	-	20	0	53	57.2	66.1	48.3	0	66.9	66.9	70	N	-	-	46.9	Y	N	N
A1-4a-7	6	52.6	A1-4a	-	20	0	53.1	57	65.9	49.4	0	66.7	66.7	70	N	-	-	46.7	Y	N	N
A1-4a-7	7	55.7	A1-4a	-	20	0	53.2	56.8	65.6	50.4	0	66.5	66.5	70	N	-	-	46.5	Y	N	N
A1-4a-7	8	58.8	A1-4a	-	20	0	53.3	56.6	65.4	51.4	0	66.3	66.3	70	N	-	-	46.3	Y	N	N
A1-4a-7	9	61.9	A1-4a	-	20	0	53.5	56.5	65.1	52.3	0	66.1	66.1	70	N	-	-	46.1	Y	N	N
A1-4a-7	10	65	A1-4a	-	19.9	0	53.7	56.5	64.9	53	0	66	66.0	70	N	-	-	46.1	Y	N	N
A1-4a-7	11	68.1	A1-4a	-	19.9	0	53.9	56.6	64.6	53.7	0	65.8	65.8	70	N	-	-	45.9	Y	N	N
A1-4a-7	12	71.2	A1-4a	-	19.9	0	53.9	56.5	64.4	54.1	0	65.7	65.7	70	N	-	-	45.8	Y	N	N
A1-4a-7	13	74.3	A1-4a	-	19.9	0	54	56.5	64.2	54.5	0	65.6	65.6	70	N	-	-	45.7	Y	N	N
A1-4a-7	14	77.4	A1-4a	-	19.9	0	54.1	56.4	64	54.9	0	65.5	65.5	70	N	-	-	45.6	Y	N	N
A1-4a-7	15	80.5	A1-4a	-	19.9	0	54.1	56.4	63.8	55.4	0	65.4	65.4	70	N	-	-	45.5	Y	N	N
A1-4a-7	16	83.6	A1-4a	-	19.9	0	54.1	56.4	63.6	55.8	0	65.3	65.3	70	N	-	-	45.4	Y	N	N
A1-4a-7	17	86.7	A1-4a	-	19.8	0	54.2	56.5	63.4	56	0	65.2	65.2	70	N	-	-	45.4	Y	N	N
A1-4a-7	18	89.8	A1-4a	-	19.8	0	54.2	56.6	63.2	56.2	0	65.1	65.1	70	N	-	-	45.3	Y	N	N
A1-4a-7	19	92.9	A1-4a	-	19.6	0	54.2	56.7	63	56.5	0	65	65.0	70	N	-	-	45.4	Y	N	N
A1-4a-7	20	96	A1-4a	-	19.8	0	54.2	56.7	62.9	56.8	0	65	65.0	70	N	-	-	45.2	Y	N	N
A1-4a-7	21	99.1	A1-4a	-	19.9	0	54.2	56.7	62.7	57.1	0	65	65.0	70	N	-	-	45.1	Y	N	N
A1-4a-7	22	102.2	A1-4a	-	19.9	0	54.3	56.9	62.5	57.5	0	64.9	64.9	70	N	-	-	45.0	Y	N	N
A1-4a-7	23	105.3	A1-4a	-	19.9	0	54.3	56.9	62.4	57.9	0	64.9	64.9	70	N	-	-	45.0	Y	N	N
A1-4a-7	24	108.4	A1-4a	-	19.9	0	54.2	56.9	62.3	58.1	0	64.9	64.9	70	N	-	-	45.0	Y	N	N
A1-4a-7	25	111.5	A1-4a	-	19.9	0	54.3	57	62.1	58.5	0	64.9	64.9	70	N	-	-	45.0	Y	N	N
A1-4a-7	26	114.6	A1-4a	-	20.2	0	54.3	57	62	58.7	0	64.9	64.9	70	N	-	-	44.7	Y	N	N
A1-4a-7	27	117.7	A1-4a	-	20.5	0	54.3	57.1	61.9	59.2	0	65	65.0	70	N	-	-	44.5	Y	N	N
A1-4a-8	1	37.1	A1-4a	-	20	0	52.6	57.2	59.5	44.7	0	62.1	62.1	70	N	-	-	42.1	Y	N	N
A1-4a-8	2	40.2	A1-4a	-	20	0	52.7	57.8	66.6	45.6	0	67.3	67.3	70	N	-	-	47.3	Y	N	N
A1-4a-8	3	43.3	A1-4a	-	20	0	52.8	57.4	67.3	46.5	0	67.9	67.9	70	N	-	-	47.9	Y	N	N
A1-4a-8	4	46.4	A1-4a	-	20	0	52.8	57.2	67	47.5	0	67.6	67.6	70	N	-	-	47.6	Y	N	N
A1-4a-8	5	49.5	A1-4a	-	20	0	52.9	56.9	66.7	48.4	0	67.4	67.4	70	N	-	-	47.4	Y	N	N
A1-4a-8	6	52.6	A1-4a	-	20	0	53	56.7	66.4	49.4	0	67.1	67.1	70	N	-	-	47.1	Y	N	N
A1-4a-8	7	55.7	A1-4a	-	20	0	53.1	56.4	66.1	50.4	0	66.9	66.9	70	N	-	-	46.9	Y	N	N
A1-4a-8	8	58.8	A1-4a	-	20	0	53.3	56.3	65.8	51.5	0	66.6	66.6	70	N	-	-	46.6	Y	N	N
A1-4a-8	9	61.9	A1-4a	-	19.9	0	53.5	56.2	65.5	52.4	0	66.4	66.4	70	N	-	-	46.5	Y	N	N
A1-4a-8	10	65	A1-4a	-	19.9	0	53.7	56.2	65.3	53.2	0	66.3	66.3	70	N	-	-	46.4	Y	N	N
A1-4a-8	11	68.1	A1-4a	-	19.9	0	53.9	56.2	65	53.8	0	66.1	66.1	70	N	-	-	46.2	Y	N	N
A1-4a-8	12	71.2	A1-4a	-	19.9	0	54	56.2	64.8	54.3	0	66	66.0	70	N	-	-	46.1	Y	N	N
A1-4a-8	13	74.3	A1-4a	-	19.9	0	54	56.2	64.6	54.7	0	65.8	65.8	70	N	-	-	45.9	Y	N	N
A1-4a-8	14	77.4	A1-4a	-	19.9	0	54.1	56.1	64.4	55.1	0	65.7	65.7	70	N	-	-	45.8	Y	N	N
A1-4a-8	15	80.5	A1-4a	-	19.9	0	54.1	56.1	64.2	55.5	0	65.6	65.6	70	N	-	-	45.7	Y	N	N
A1-4a-8	16	83.6	A1-4a	-	19.8	0	54.1	56.2	64	56	0	65.5	65.5	70	N	-	-	45.7	Y	N	N
A1-4a-8	17	86.7	A1-4a	-	19.8	0	54.2	56.4	63.8	56.2	0	65.4	65.4	70	N	-	-	45.6	Y	N	N
A1-4a-8	18	89.8	A1-4a	-	19.8	0	54.2	56.5	63.6	56.4	0	65.4	65.4	70	N	-	-	45.6	Y	N	N
A1-4a-8	19	92.9	A1-4a	-	19.7	0	54.2	56.5	63.4	56.7	0	65.3	65.3	70	N	-	-	45.6	Y	N	N
A1-4a-8	20	96	A1-4a	-	19.8	0	54.2	56.6	63.3	57	0	65.2	65.2	70	N	-	-	45.4	Y	N	N
A1-4a-8	21	99.1	A1-4a	-	19.9	0	54.2	56.7	63.1	57.3	0	65.2	65.2	70	N	-	-	45.3	Y	N	N
A1-4a-8	22	102.2	A1-4a	-	19.9	0	54.3	56.7	62.9	57.6	0	65.2	65.2	70	N	-	-	45.3	Y	N	N
A1-4a-8	23	105.3	A1-4a	-	20	0	54.3	56.8	62.8	58	0	65.2	65.2	70	N	-	-	45.2	Y	N	N
A1-4a-8	24	108.4	A1-4a	-	19.9	0	54.2	56.8	62.6	58.3	0	65.1	65.1	70	N	-	-	45.2	Y	N	N
A1-4a-8	25	111.5	A1-4a	-	19.9	0	54.3	56.8	62.5	58.7	0	65.1	65.1	70	N	-	-	45.2	Y	N	N
A1-4a-8	26	114.6	A1-4a	-	20.1	0	54.3	56.9	62.3	59	0	65.1	65.1	70	N	-	-	45.0	Y	N	N
A1-4a-8	27	117.7	A1-4a	-	20.5	0	54.3	56.9	62.2	59.3	0	65.2	65.2	70	N	-	-	44.7	Y	N	N
A1-4a-9	1	37.1	A1-4a	-	20	0	29.4	49.5	69.3	45.3	0	69.4	69.4	70	N	-	-	49.4	Y	N	N
A1-4a-9	2	40.2	A1-4a	-	20	0	30.2	49.6	68.9	46.1	0	69	69.0	70	N	-	-	49.0	Y	N	N
A1-4a-9	3	43.3	A1-4a	-	20	0	31	49.5	68.5	46.8	0	68.6	68.6	70	N	-	-	48.6	Y	N	N
A1-4a-9	4	46.4	A1-4a	-	20	0	32	49.5	68.1	47.6	0	68.2	68.2	70	N	-	-	48.2	Y	N	N
A1-4a-9	5	49.5	A1-4a	-	19.9	0	33.1	49.6	67.8	48.5	0	67.9	67.9	70	N	-	-	48.0	Y	N	N
A1-4a-9	6	52.6	A1-4a	-	19.9	0	34.5	49.6	67.4	49.4	0	67.6	67.6	70	N	-	-	47.7	Y	N	N
A1-4a-9	7	55.7	A1-4a	-	19.9	0	36.4	49.7	67.1	50.4	0	67.3	67.3	70	N	-	-	47.4	Y	N	N
A1-4a-9	8	58.8	A1-4a	-	19.9	0	38.4	49.8	66.8	51.4	0	67.1	67.1	70	N	-	-	47.2	Y	N	N
A1-4a-9	9	61.9	A1-4a	-	19.9	0	40.9	50.1	66.5	52.3	0	66.8	66.8	70	N	-	-	46.9	Y	N	N
A1-4a-9	10	65	A1-4a	-	19.9	0	43.2	50.5	66.3	53	0	66.6	66.6	70	N	-	-	46.7	Y	N	N
A1-4a-9	11	68.1	A1-4a	-	19.9	0	44.8	51.1	66	53.7	0	66.4	66.4	70	N	-	-	46.5	Y	N	N
A1-4a-9	12	71.2	A1-4a	-	19.9	0	45.4	51.6	65.8	54.4	0	66.3	66.3	70	N	-	-	46.4	Y	N	N
A1-4a-9	13	74.3	A1-4a	-	19.8	0	45.8	52	65.6	54.9	0	66.1	66.1	70	N	-	-	46.3	Y	N	N
A1-4a-9	14	77.4	A1-4a	-	19.8	0	46	52.2	65.3	55.4	0	65.9	65.9	70	N	-	-	46.1	Y	N	N
A1-4a-9	15	80.5	A1-4a	-	19.8	0	46.1	52.5	65.1	55.8	0	65.8	65.8	70	N	-	-	46.0	Y	N	N
A1-4a-9	16	83.6	A1-4a	-	19.8	0	46.2	52.8	64.9	56.3	0	65.7	65.7	70	N	-	-	45.9	Y	N	N
A1-4a-9	17	86.7	A1-4a	-	19.8	0	46.2	53.4	64.7	56.4	0	65.6	65.6	70	N	-	-	45.8	Y	N	N
A1-4a-9	18	89.8	A1-4a	-	19.8	0	46.3	53.8	64.5	56.6	0	65.5	65.5	70	N	-	-	45.7	Y	N	N
A1-4a-9	19	92.9	A1-4a	-	19.6	0	46.4	54.1	64.4	57	0	65.5	65.5	70	N	-	-	45.9	Y	N	N
A1-4a-9	20	96	A1-4a	-	19.8	0	46.5	54.3	64.2	57.2	0	65.4	65.4	70	N	-	-	45.6	Y	N	N
A1-4a-9	21	99.1	A1-4a	-	19.8	0	46.6	54.5	64	57.7	0	65.4	65.4	70	N	-	-	45.6	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
A1-4a-9	22	102.2	A1-4a	-	19.8	0	46.5	54.7	63.9	58	0	65.3	65.3	70	N	-	-	45.5	Y	N	N
A1-4a-9	23	105.3	A1-4a	-	19.9	0	46.6	54.9	63.7	58.3	0	65.3	65.3	70	N	-	-	45.4	Y	N	N
A1-4a-9	24	108.4	A1-4a	-	19.9	0	46.6	55	63.5	58.7	0	65.3	65.3	70	N	-	-	45.4	Y	N	N
A1-4a-9	25	111.5	A1-4a	-	19.9	0	46.7	55.1	63.4	59	0	65.3	65.3	70	N	-	-	45.4	Y	N	N
A1-4a-9	26	114.6	A1-4a	-	20.2	0	46.7	55.2	63.3	59.3	0	65.3	65.3	70	N	-	-	45.1	Y	N	N
A1-4a-9	27	117.7	A1-4a	-	20.6	0	46.7	55.3	63.1	59.8	0	65.3	65.3	70	N	-	-	44.7	Y	N	N
A1-4a-10	1	37.1	A1-4a	-	19.4	0	27.9	37	68.3	44.9	0	68.4	68.4	70	N	-	-	49.0	Y	N	N
A1-4a-10	2	40.2	A1-4a	-	19.4	0	28.8	37.6	68	45.7	0	68	68.0	70	N	-	-	48.6	Y	N	N
A1-4a-10	3	43.3	A1-4a	-	19.4	0	29.9	38.3	67.6	46.5	0	67.7	67.7	70	N	-	-	48.3	Y	N	N
A1-4a-10	4	46.4	A1-4a	-	19.4	0	31.1	39	67.3	47.3	0	67.3	67.3	70	N	-	-	47.9	Y	N	N
A1-4a-10	5	49.5	A1-4a	-	19.4	0	32.4	39.7	66.9	48.2	0	67	67.0	70	N	-	-	47.6	Y	N	N
A1-4a-10	6	52.6	A1-4a	-	19.4	0	33.8	40.5	66.6	49.1	0	66.7	66.7	70	N	-	-	47.3	Y	N	N
A1-4a-10	7	55.7	A1-4a	-	19.3	0	35.8	41.4	66.3	50.1	0	66.4	66.4	70	N	-	-	47.1	Y	N	N
A1-4a-10	8	58.8	A1-4a	-	19.3	0	37.8	42.4	66	51.1	0	66.2	66.2	70	N	-	-	46.9	Y	N	N
A1-4a-10	9	61.9	A1-4a	-	19.3	0	40.5	43.6	65.7	52	0	66	66.0	70	N	-	-	46.7	Y	N	N
A1-4a-10	10	65	A1-4a	-	19.3	0	42.9	45.3	65.5	52.8	0	65.8	65.8	70	N	-	-	46.5	Y	N	N
A1-4a-10	11	68.1	A1-4a	-	19.3	0	44.6	47.1	65.2	53.5	0	65.6	65.6	70	N	-	-	46.3	Y	N	N
A1-4a-10	12	71.2	A1-4a	-	19.3	0	45.3	48.4	65	54.2	0	65.5	65.5	70	N	-	-	46.2	Y	N	N
A1-4a-10	13	74.3	A1-4a	-	19.3	0	45.8	49.1	64.8	54.7	0	65.3	65.3	70	N	-	-	46.0	Y	N	N
A1-4a-10	14	77.4	A1-4a	-	19.3	0	45.9	49.6	64.6	55.2	0	65.2	65.2	70	N	-	-	45.9	Y	N	N
A1-4a-10	15	80.5	A1-4a	-	19.2	0	46	50.1	64.4	55.6	0	65.1	65.1	70	N	-	-	45.9	Y	N	N
A1-4a-10	16	83.6	A1-4a	-	19.2	0	46.1	50.8	64.2	56.1	0	65	65.0	70	N	-	-	45.8	Y	N	N
A1-4a-10	17	86.7	A1-4a	-	19.2	0	46.2	51.7	64	56.3	0	64.9	64.9	70	N	-	-	45.7	Y	N	N
A1-4a-10	18	89.8	A1-4a	-	19.2	0	46.3	52.4	63.8	56.5	0	64.8	64.8	70	N	-	-	45.6	Y	N	N
A1-4a-10	19	92.9	A1-4a	-	19	0	46.4	52.7	63.6	56.8	0	64.8	64.8	70	N	-	-	45.8	Y	N	N
A1-4a-10	20	96	A1-4a	-	19.2	0	46.4	53	63.5	57.2	0	64.8	64.8	70	N	-	-	45.6	Y	N	N
A1-4a-10	21	99.1	A1-4a	-	19.2	0	46.4	53.3	63.3	57.5	0	64.7	64.7	70	N	-	-	45.5	Y	N	N
A1-4a-10	22	102.2	A1-4a	-	19.3	0	46.5	53.6	63.1	57.8	0	64.7	64.7	70	N	-	-	45.4	Y	N	N
A1-4a-10	23	105.3	A1-4a	-	19.3	0	46.6	53.9	63	58.2	0	64.7	64.7	70	N	-	-	45.4	Y	N	N
A1-4a-10	24	108.4	A1-4a	-	19.4	0	46.6	54	62.8	58.5	0	64.7	64.7	70	N	-	-	45.3	Y	N	N
A1-4a-10	25	111.5	A1-4a	-	19.4	0	46.7	54.2	62.7	58.9	0	64.7	64.7	70	N	-	-	45.3	Y	N	N
A1-4a-10	26	114.6	A1-4a	-	19.5	0	46.6	54.3	62.5	59.2	0	64.7	64.7	70	N	-	-	45.2	Y	N	N
A1-4a-10	27	117.7	A1-4a	-	19.8	0	46.7	54.5	62.4	59.5	0	64.7	64.7	70	N	-	-	44.9	Y	N	N
A1-4a-11	1	37.1	A1-4a	-	16.5	0	27.7	36.9	67.9	44.7	0	67.9	67.9	70	N	-	-	51.4	Y	N	N
A1-4a-11	2	40.2	A1-4a	-	16.5	0	28.6	37.6	67.5	45.5	0	67.6	67.6	70	N	-	-	51.1	Y	N	N
A1-4a-11	3	43.3	A1-4a	-	16.5	0	29.7	38.2	67.2	46.3	0	67.3	67.3	70	N	-	-	50.8	Y	N	N
A1-4a-11	4	46.4	A1-4a	-	16.5	0	30.8	38.9	66.9	47.1	0	67	67.0	70	N	-	-	50.5	Y	N	N
A1-4a-11	5	49.5	A1-4a	-	16.5	0	32.1	39.6	66.6	48	0	66.6	66.6	70	N	-	-	50.1	Y	N	N
A1-4a-11	6	52.6	A1-4a	-	16.5	0	33.6	40.4	66.3	48.9	0	66.4	66.4	70	N	-	-	49.9	Y	N	N
A1-4a-11	7	55.7	A1-4a	-	16.5	0	35.4	41.2	66	49.9	0	66.1	66.1	70	N	-	-	49.6	Y	N	N
A1-4a-11	8	58.8	A1-4a	-	16.4	0	37.4	42.1	65.7	50.8	0	65.9	65.9	70	N	-	-	49.5	Y	N	N
A1-4a-11	9	61.9	A1-4a	-	16.4	0	39.8	43.2	65.4	51.7	0	65.6	65.6	70	N	-	-	49.2	Y	N	N
A1-4a-11	10	65	A1-4a	-	16.4	0	42.4	44.7	65.2	52.6	0	65.5	65.5	70	N	-	-	49.1	Y	N	N
A1-4a-11	11	68.1	A1-4a	-	16.4	0	44.1	46.7	65	53.3	0	65.4	65.4	70	N	-	-	49.0	Y	N	N
A1-4a-11	12	71.2	A1-4a	-	16.4	0	45.1	48	64.7	53.9	0	65.2	65.2	70	N	-	-	48.8	Y	N	N
A1-4a-11	13	74.3	A1-4a	-	16.4	0	45.5	48.8	64.5	54.5	0	65.1	65.1	70	N	-	-	48.7	Y	N	N
A1-4a-11	14	77.4	A1-4a	-	16.4	0	45.8	49.4	64.3	55	0	65	65.0	70	N	-	-	48.6	Y	N	N
A1-4a-11	15	80.5	A1-4a	-	16.3	0	46	49.9	64.1	55.4	0	64.8	64.8	70	N	-	-	48.5	Y	N	N
A1-4a-11	16	83.6	A1-4a	-	16.3	0	46.1	50.5	63.9	55.9	0	64.8	64.8	70	N	-	-	48.5	Y	N	N
A1-4a-11	17	86.7	A1-4a	-	16.3	0	46.2	51.3	63.8	56.1	0	64.7	64.7	70	N	-	-	48.4	Y	N	N
A1-4a-11	18	89.8	A1-4a	-	16.3	0	46.2	52.1	63.6	56.4	0	64.6	64.6	70	N	-	-	48.3	Y	N	N
A1-4a-11	19	92.9	A1-4a	-	16.3	0	46.3	52.5	63.4	56.6	0	64.6	64.6	70	N	-	-	48.3	Y	N	N
A1-4a-11	20	96	A1-4a	-	16.2	0	46.4	52.9	63.2	57	0	64.5	64.5	70	N	-	-	48.3	Y	N	N
A1-4a-11	21	99.1	A1-4a	-	16.3	0	46.4	53.2	63.1	57.3	0	64.5	64.5	70	N	-	-	48.2	Y	N	N
A1-4a-11	22	102.2	A1-4a	-	16.4	0	46.5	53.4	62.9	57.7	0	64.5	64.5	70	N	-	-	48.1	Y	N	N
A1-4a-11	23	105.3	A1-4a	-	16.3	0	46.6	53.7	62.8	58.1	0	64.5	64.5	70	N	-	-	48.2	Y	N	N
A1-4a-11	24	108.4	A1-4a	-	16.4	0	46.5	53.9	62.6	58.3	0	64.5	64.5	70	N	-	-	48.1	Y	N	N
A1-4a-11	25	111.5	A1-4a	-	16.3	0	46.6	54	62.5	58.6	0	64.5	64.5	70	N	-	-	48.2	Y	N	N
A1-4a-11	26	114.6	A1-4a	-	16.4	0	46.6	54.1	62.3	58.9	0	64.5	64.5	70	N	-	-	48.1	Y	N	N
A1-4a-11	27	117.7	A1-4a	-	16.5	0	46.7	54.3	62.2	59.3	0	64.5	64.5	70	N	-	-	48.0	Y	N	N
A1-4a-12	1	37.1	A1-4a	-	0	0	27.2	37.1	67.1	44.5	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
A1-4a-12	2	40.2	A1-4a	-	0	0	28.2	37.6	66.8	45.2	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A1-4a-12	3	43.3	A1-4a	-	0	0	29.2	38.2	66.5	46	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A1-4a-12	4	46.4	A1-4a	-	0	0	30.5	38.9	66.3	46.9	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A1-4a-12	5	49.5	A1-4a	-	0	0	31.6	39.5	66	47.7	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A1-4a-12	6	52.6	A1-4a	-	0	0	33.1	40.2	65.7	48.6	0	65.8	65.8	70	N	-	-	65.8	Y	N	N
A1-4a-12	7	55.7	A1-4a	-	0	0	34.9	41	65.4	49.5	0	65.6	65.6	70	N	-	-	65.6	Y	N	N
A1-4a-12	8	58.8	A1-4a	-	0	0	36.9	41.9	65.2	50.4	0	65.4	65.4	70	N	-	-	65.4	Y	N	N
A1-4a-12	9	61.9	A1-4a	-	0	0	39.1	43	65	51.4	0	65.2	65.2	70	N	-	-	65.2	Y	N	N
A1-4a-12	10	65	A1-4a	-	0	0	41.5	44.5	64.8	52.2	0	65.1	65.1	70	N	-	-	65.1	Y	N	N
A1-4a-12	11	68.1	A1-4a	-	0	0	43.5	46.2	64.5	53.1	0	64.9	64.9	70	N	-	-	64.9	Y	N	N
A1-4a-12	12	71.2	A1-4a	-	0	0	44.7	47.5	64.3	53.6	0	64.8	64.8	70	N	-	-	64.8	Y	N	N
A1-4a-12	13	74.3	A1-4a	-	0	0	45.2	48.5	64.1	54.2	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
A1-4a-12	14	77.4	A1-4a	-	0	0	45.4	49.1	63.9	54.7	0	64.6	64.6	70	N	-	-	64.6	Y	N	N
A1-4a-12	15	80.5	A1-4a	-	0	0	45.6	49.6	63.7	55.2	0	64.5	64.5	70	N	-	-	64.5	Y	N	N
A1-4a-12	16	83.6	A1-4a	-	0	0	45.8	50.3	63.5	55.6	0	64.4	64.4	70	N	-	-	64.4	Y	N	N
A1-4a-12	17	86.7	A1-4a	-	0	0	45.9	50.9	63.3	55.9	0	64.3	64.3	70	N	-	-	64.3	Y	N	N
A1-4a-12	18	89.8	A1-4a	-	0	0	46	51.7	63.1	56.1	0	64.2	64.2	70	N	-	-	64.2	Y	N	N
A1-4a-12	19	92.9	A1-4a	-	0	0	46	52.3	63	56.5	0	64.2	64.2	70	N	-	-	64.2	Y	N	N
A1-4a-12	20	96	A1-4a	-	0	0	46.1	52.6	62.8	56.8	0	64.2	64.2	70	N	-	-	64.2	Y	N	N
A1-4a-12	21	99.1	A1-4a	-	0	0	46.1	53	62.6	57	0	64.1	64.1	70	N	-	-	64.1	Y	N	N
A1-4a-12	22	102.2	A1-4a	-	0	0	46.2	53.2	62.5	57.4	0	64.1	64.1	70	N	-	-	64.1	Y	N	N
A1-4a-12	23	105.3	A1-4a	-	0	0	46.2	53.4	62.4	57.7	0	64.1	64.1	70	N	-	-	64.1	Y	N	N
A1-4a-12	24	108.4	A1-4a	-	0	0	46.3	53.7	62.2	58.1	0	64.1	64.1	70	N	-	-	64.1	Y	N	N
A1-4a-12	25	111.5	A1-4a	-	0	0	46.4	53.8	62.1	58.4	0	64.1	64.1	70	N	-	-	64.1	Y	N	N
A1-4a-12	26	114.6	A1-4a	-	0	0	46.4	53.9	61.9	58.8	0	64.2	64.2	70	N	-	-	64.2	Y	N	N
A1-4a-12	27	117.7	A1-4a	-	0	0	46.4	54.1	61.8	59	0	64.2	64.2	70	N	-	-	64.2	Y	N	N
A1-4a-13	1	37.1	A1-4a	-	0	0	27	37.5	66.6	44.4	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A1-4a-13	2	40.2	A1-4a	-	0	0	27.9	38	66.3	45.1	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A1-4a-13	3	43.3	A1-4a	-	0	0	29	38.5	66.1	45.8	0	66.2	66.2	70	N	-	-	66.2	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
									dB (A)							C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
A1-4a-13	4	46.4	A1-4a	-	0	0	30.1	39	65.9	46.7	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
A1-4a-13	5	49.5	A1-4a	-	0	0	31.4	39.6	65.6	47.5	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
A1-4a-13	6	52.6	A1-4a	-	0	0	32.8	40.2	65.4	48.3	0	65.5	65.5	70	N	-	-	65.5	Y	N	N
A1-4a-13	7	55.7	A1-4a	-	0	0	34.4	41	65.1	49.1	0	65.2	65.2	70	N	-	-	65.2	Y	N	N
A1-4a-13	8	58.8	A1-4a	-	0	0	36.3	42.1	64.9	50.1	0	65.1	65.1	70	N	-	-	65.1	Y	N	N
A1-4a-13	9	61.9	A1-4a	-	0	0	38.2	43.4	64.7	51	0	64.9	64.9	70	N	-	-	64.9	Y	N	N
A1-4a-13	10	65	A1-4a	-	0	0	40.5	44.7	64.5	51.9	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
A1-4a-13	11	68.1	A1-4a	-	0	0	42.7	46.1	64.3	52.6	0	64.6	64.6	70	N	-	-	64.6	Y	N	N
A1-4a-13	12	71.2	A1-4a	-	0	0	44.2	47.5	64.1	53.2	0	64.5	64.5	70	N	-	-	64.5	Y	N	N
A1-4a-13	13	74.3	A1-4a	-	0	0	44.8	48.5	63.9	53.9	0	64.4	64.4	70	N	-	-	64.4	Y	N	N
A1-4a-13	14	77.4	A1-4a	-	0	0	45.3	49.1	63.7	54.4	0	64.3	64.3	70	N	-	-	64.3	Y	N	N
A1-4a-13	15	80.5	A1-4a	-	0	0	45.5	49.5	63.5	54.9	0	64.2	64.2	70	N	-	-	64.2	Y	N	N
A1-4a-13	16	83.6	A1-4a	-	0	0	45.6	49.9	63.3	55.3	0	64.2	64.2	70	N	-	-	64.2	Y	N	N
A1-4a-13	17	86.7	A1-4a	-	0	0	45.6	50.5	63.1	55.7	0	64.1	64.1	70	N	-	-	64.1	Y	N	N
A1-4a-13	18	89.8	A1-4a	-	0	0	45.7	51.2	62.9	55.9	0	64	64.0	70	N	-	-	64.0	Y	N	N
A1-4a-13	19	92.9	A1-4a	-	0	0	45.8	51.8	62.8	56.1	0	64	64.0	70	N	-	-	64.0	Y	N	N
A1-4a-13	20	96	A1-4a	-	0	0	45.9	52.3	62.6	56.4	0	63.9	63.9	70	N	-	-	63.9	Y	N	N
A1-4a-13	21	99.1	A1-4a	-	0	0	46	52.6	62.5	56.8	0	64	64.0	70	N	-	-	64.0	Y	N	N
A1-4a-13	22	102.2	A1-4a	-	0	0	46	52.9	62.3	57.2	0	63.9	63.9	70	N	-	-	63.9	Y	N	N
A1-4a-13	23	105.3	A1-4a	-	0	0	46	53.2	62.2	57.5	0	63.9	63.9	70	N	-	-	63.9	Y	N	N
A1-4a-13	24	108.4	A1-4a	-	0	0	46.1	53.4	62.1	57.8	0	63.9	63.9	70	N	-	-	63.9	Y	N	N
A1-4a-13	25	111.5	A1-4a	-	0	0	46.1	53.6	61.9	58.1	0	63.9	63.9	70	N	-	-	63.9	Y	N	N
A1-4a-13	26	114.6	A1-4a	-	0	0	46.2	53.6	61.8	58.4	0	64	64.0	70	N	-	-	64.0	Y	N	N
A1-4a-13	27	117.7	A1-4a	-	0	0	46.2	53.8	61.7	58.8	0	64	64.0	70	N	-	-	64.0	Y	N	N
A1-4a-14	1	37.1	A1-4a	-	0	0	26.7	42.1	65.2	44.2	0	65.2	65.2	70	N	-	-	65.2	Y	N	N
A1-4a-14	2	40.2	A1-4a	-	0	0	27.7	42.2	65.6	44.8	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
A1-4a-14	3	43.3	A1-4a	-	0	0	28.7	42.4	65.5	45.6	0	65.6	65.6	70	N	-	-	65.6	Y	N	N
A1-4a-14	4	46.4	A1-4a	-	0	0	29.8	42.6	65.3	46.3	0	65.4	65.4	70	N	-	-	65.4	Y	N	N
A1-4a-14	5	49.5	A1-4a	-	0	0	30.9	42.8	65.1	47.1	0	65.2	65.2	70	N	-	-	65.2	Y	N	N
A1-4a-14	6	52.6	A1-4a	-	0	0	32.3	42.9	64.9	47.9	0	65	65.0	70	N	-	-	65.0	Y	N	N
A1-4a-14	7	55.7	A1-4a	-	0	0	33.8	43.2	64.7	48.8	0	64.8	64.8	70	N	-	-	64.8	Y	N	N
A1-4a-14	8	58.8	A1-4a	-	0	0	35.5	43.6	64.5	49.7	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
A1-4a-14	9	61.9	A1-4a	-	0	0	37.4	44	64.3	50.5	0	64.5	64.5	70	N	-	-	64.5	Y	N	N
A1-4a-14	10	65	A1-4a	-	0	0	39.7	44.6	64.1	51.3	0	64.4	64.4	70	N	-	-	64.4	Y	N	N
A1-4a-14	11	68.1	A1-4a	-	0	0	41.8	45.5	63.9	52.1	0	64.3	64.3	70	N	-	-	64.3	Y	N	N
A1-4a-14	12	71.2	A1-4a	-	0	0	43.3	46.8	63.7	52.8	0	64.2	64.2	70	N	-	-	64.2	Y	N	N
A1-4a-14	13	74.3	A1-4a	-	0	0	44.3	47.8	63.5	53.4	0	64.1	64.1	70	N	-	-	64.1	Y	N	N
A1-4a-14	14	77.4	A1-4a	-	0	0	44.8	48.6	63.4	54	0	64	64.0	70	N	-	-	64.0	Y	N	N
A1-4a-14	15	80.5	A1-4a	-	0	0	45.2	48.9	63.2	54.5	0	63.9	63.9	70	N	-	-	63.9	Y	N	N
A1-4a-14	16	83.6	A1-4a	-	0	0	45.4	49.4	63	55	0	63.9	63.9	70	N	-	-	63.9	Y	N	N
A1-4a-14	17	86.7	A1-4a	-	0	0	45.5	50	62.9	55.4	0	63.8	63.8	70	N	-	-	63.8	Y	N	N
A1-4a-14	18	89.8	A1-4a	-	0	0	45.5	50.4	62.7	55.7	0	63.7	63.7	70	N	-	-	63.7	Y	N	N
A1-4a-14	19	92.9	A1-4a	-	0	0	45.6	51.2	62.6	55.8	0	63.7	63.7	70	N	-	-	63.7	Y	N	N
A1-4a-14	20	96	A1-4a	-	0	0	45.7	51.8	62.4	56.2	0	63.7	63.7	70	N	-	-	63.7	Y	N	N
A1-4a-14	21	99.1	A1-4a	-	0	0	45.7	52.2	62.3	56.4	0	63.7	63.7	70	N	-	-	63.7	Y	N	N
A1-4a-14	22	102.2	A1-4a	-	0	0	45.8	52.5	62.1	56.8	0	63.6	63.6	70	N	-	-	63.6	Y	N	N
A1-4a-14	23	105.3	A1-4a	-	0	0	45.9	52.7	62	57.2	0	63.7	63.7	70	N	-	-	63.7	Y	N	N
A1-4a-14	24	108.4	A1-4a	-	0	0	45.8	53	61.9	57.5	0	63.7	63.7	70	N	-	-	63.7	Y	N	N
A1-4a-14	25	111.5	A1-4a	-	0	0	45.9	53.2	61.7	57.8	0	63.7	63.7	70	N	-	-	63.7	Y	N	N
A1-4a-14	26	114.6	A1-4a	-	0	0	45.9	53.4	61.6	58.1	0	63.7	63.7	70	N	-	-	63.7	Y	N	N
A1-4a-14	27	117.7	A1-4a	-	0	0	46	53.5	61.5	58.4	0	63.7	63.7	70	N	-	-	63.7	Y	N	N
A1-4a-15	1	37.1	A1-4a	-	10.6	0	26.9	42.2	63.9	44.2	0	64	64.0	70	N	-	-	53.4	Y	N	N
A1-4a-15	2	40.2	A1-4a	-	10.6	0	27.8	42.3	65.5	44.8	0	65.6	65.6	70	N	-	-	55.0	Y	N	N
A1-4a-15	3	43.3	A1-4a	-	10.6	0	28.8	42.5	65.5	45.5	0	65.5	65.5	70	N	-	-	54.9	Y	N	N
A1-4a-15	4	46.4	A1-4a	-	10.6	0	29.8	42.7	65.3	46.3	0	65.3	65.3	70	N	-	-	54.7	Y	N	N
A1-4a-15	5	49.5	A1-4a	-	10.6	0	30.8	42.9	65.1	47	0	65.2	65.2	70	N	-	-	54.6	Y	N	N
A1-4a-15	6	52.6	A1-4a	-	10.6	0	32	43.1	64.9	47.7	0	65	65.0	70	N	-	-	54.4	Y	N	N
A1-4a-15	7	55.7	A1-4a	-	10.6	0	33.3	43.3	64.7	48.5	0	64.8	64.8	70	N	-	-	54.2	Y	N	N
A1-4a-15	8	58.8	A1-4a	-	10.6	0	34.9	43.7	64.5	49.4	0	64.7	64.7	70	N	-	-	54.1	Y	N	N
A1-4a-15	9	61.9	A1-4a	-	10.6	0	36.7	44.1	64.3	50.2	0	64.5	64.5	70	N	-	-	53.9	Y	N	N
A1-4a-15	10	65	A1-4a	-	10.5	0	38.7	44.6	64.2	51.1	0	64.4	64.4	70	N	-	-	53.9	Y	N	N
A1-4a-15	11	68.1	A1-4a	-	10.5	0	40.9	45.3	64	51.8	0	64.3	64.3	70	N	-	-	53.8	Y	N	N
A1-4a-15	12	71.2	A1-4a	-	10.5	0	42.8	46.4	63.8	52.6	0	64.2	64.2	70	N	-	-	53.7	Y	N	N
A1-4a-15	13	74.3	A1-4a	-	10.5	0	44	47.2	63.6	53.2	0	64.1	64.1	70	N	-	-	53.6	Y	N	N
A1-4a-15	14	77.4	A1-4a	-	10.5	0	44.6	48	63.5	53.9	0	64.1	64.1	70	N	-	-	53.6	Y	N	N
A1-4a-15	15	80.5	A1-4a	-	10.5	0	44.9	48.6	63.3	54.4	0	64	64.0	70	N	-	-	53.5	Y	N	N
A1-4a-15	16	83.6	A1-4a	-	10.5	0	45.3	49.1	63.1	54.8	0	63.9	63.9	70	N	-	-	53.4	Y	N	N
A1-4a-15	17	86.7	A1-4a	-	10.5	0	45.4	49.5	63	55.3	0	63.9	63.9	70	N	-	-	53.4	Y	N	N
A1-4a-15	18	89.8	A1-4a	-	10.4	0	45.6	50.2	62.8	55.5	0	63.8	63.8	70	N	-	-	53.4	Y	N	N
A1-4a-15	19	92.9	A1-4a	-	10.4	0	45.7	50.8	62.6	55.8	0	63.7	63.7	70	N	-	-	53.3	Y	N	N
A1-4a-15	20	96	A1-4a	-	10.3	0	45.7	51.5	62.5	56.1	0	63.7	63.7	70	N	-	-	53.4	Y	N	N
A1-4a-15	21	99.1	A1-4a	-	10.5	0	45.8	51.9	62.3	56.3	0	63.7	63.7	70	N	-	-	53.2	Y	N	N
A1-4a-15	22	102.2	A1-4a	-	10.5	0	45.8	52.3	62.2	56.7	0	63.7	63.7	70	N	-	-	53.2	Y	N	N
A1-4a-15	23	105.3	A1-4a	-	10.5	0	45.8	52.6	62.1	57	0	63.7	63.7	70	N	-	-	53.2	Y	N	N
A1-4a-15	24	108.4	A1-4a	-	10.5	0	45.9	52.9	61.9	57.4	0	63.7	63.7	70	N	-	-	53.2	Y	N	N
A1-4a-15	25	111.5	A1-4a	-	10.5	0	46	53.1	61.8	57.6	0	63.7	63.7	70	N	-	-	53.2	Y	N	N
A1-4a-15	26	114.6	A1-4a	-	10.5	0	46	53.2	61.7	58	0	63.7	63.7	70	N	-	-	53.2	Y	N	N
A1-4a-15	27	117.7	A1-4a	-	10.5	0	46.1	53.3	61.6	58.3	0	63.7	63.7	70	N	-	-	53.2	Y	N	N
A1-4a-16	1	37.1	A1-4a	-	17.2	0	27	42.5	64.5	44.2	0	64.6	64.6	70	N	-	-	47.4	Y	N	N
A1-4a-16	2	40.2	A1-4a	-	17.2	0	27.8	42.6	65.5	44.8	0	65.5	65.5	70	N	-	-	48.3	Y	N	N
A1-4a-16	3	43.3	A1-4a	-	17.2	0	28.6	42.7	65.4	45.4	0	65.5	65.5	70	N	-	-	48.3	Y	N	N
A1-4a-16	4	46.4	A1-4a	-	17.2	0	29.5	42.9	65.3	46.1	0	65.4	65.4	70	N	-	-	48.2	Y	N	N
A1-4a-16	5	49.5	A1-4a	-	17.2	0	30.6	43.1	65.1	46.8	0	65.2	65.2	70	N	-	-	48.0	Y	N	N
A1-4a-16	6	52.6	A1-4a	-	17.2	0	31.7	43.3	64.9	47.6	0	65	65.0	70	N	-	-	47.8	Y	N	N
A1-4a-16	7	55.7	A1-4a	-	17.2	0	33	43.5	64.7	48.4	0	64.8	64.8	70	N	-	-	47.6	Y	N	N
A1-4a-16	8	58.8	A1-4a	-	17.2	0	34.3	43.8	64.6	49.1	0	64.7	64.7	70	N	-	-	47.5	Y	N	N
A1-4a-16	9	61.9	A1-4a	-	17.2	0	35.9	44.1	64.4	50	0	64.6	64.6	70	N	-	-	47.4	Y	N	N
A1-4a-16	10	65	A1-4a	-	17.1	0	37.7	44.5	64.2	50.8	0	64.5	64.5	70	N	-	-	47.4	Y	N	N
A1-4a-16	11	68.1	A1-4a	-	17.1	0	39.9	44.9	64	51.6	0	64.3	64.3	70	N	-	-	47.2	Y	N	N
A1-4a-16	12	71.2	A1-4a	-	17.1	0	41.9	45.8	63.9	52.3	0	64.2	64.2	70	N	-	-	47.1	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
A1-4a-16	13	74.3	A1-4a	-	17.1	0	43.4	46.7	63.7	53	0	64.1	64.1	70	N	-	-	47.0	Y	N	N
A1-4a-16	14	77.4	A1-4a	-	17.1	0	44.2	47.5	63.5	53.6	0	64	64.0	70	N	-	-	46.9	Y	N	N
A1-4a-16	15	80.5	A1-4a	-	17.1	0	44.8	48.2	63.3	54.2	0	64	64.0	70	N	-	-	46.9	Y	N	N
A1-4a-16	16	83.6	A1-4a	-	17.1	0	45.2	48.7	63.2	54.7	0	63.9	63.9	70	N	-	-	46.8	Y	N	N
A1-4a-16	17	86.7	A1-4a	-	17	0	45.5	49.2	63	55.1	0	63.9	63.9	70	N	-	-	46.9	Y	N	N
A1-4a-16	18	89.8	A1-4a	-	17	0	45.6	49.7	62.9	55.5	0	63.8	63.8	70	N	-	-	46.8	Y	N	N
A1-4a-16	19	92.9	A1-4a	-	17	0	45.6	50.4	62.7	55.7	0	63.8	63.8	70	N	-	-	46.8	Y	N	N
A1-4a-16	20	96	A1-4a	-	16.9	0	45.8	51.2	62.6	56	0	63.8	63.8	70	N	-	-	46.9	Y	N	N
A1-4a-16	21	99.1	A1-4a	-	17.1	0	45.8	51.8	62.4	56.3	0	63.7	63.7	70	N	-	-	46.6	Y	N	N
A1-4a-16	22	102.2	A1-4a	-	17.1	0	45.9	52.1	62.3	56.7	0	63.7	63.7	70	N	-	-	46.6	Y	N	N
A1-4a-16	23	105.3	A1-4a	-	17.1	0	45.9	52.4	62.1	56.9	0	63.7	63.7	70	N	-	-	46.6	Y	N	N
A1-4a-16	24	108.4	A1-4a	-	17.1	0	46	52.6	62	57.3	0	63.7	63.7	70	N	-	-	46.6	Y	N	N
A1-4a-16	25	111.5	A1-4a	-	17.1	0	46.1	52.8	61.9	57.6	0	63.7	63.7	70	N	-	-	46.6	Y	N	N
A1-4a-16	26	114.6	A1-4a	-	17.2	0	46.1	53.1	61.8	57.9	0	63.7	63.7	70	N	-	-	46.5	Y	N	N
A1-4a-16	27	117.7	A1-4a	-	17.2	0	46.1	53.2	61.6	58.3	0	63.7	63.7	70	N	-	-	46.5	Y	N	N
A1-4a-17	1	37.1	A1-4a	-	19.1	0	26.9	42.8	65	44.1	0	65.1	65.1	70	N	-	-	46.0	Y	N	N
A1-4a-17	2	40.2	A1-4a	-	19.1	0	27.7	43	65.3	44.7	0	65.4	65.4	70	N	-	-	46.3	Y	N	N
A1-4a-17	3	43.3	A1-4a	-	19.1	0	28.5	43.1	65.2	45.3	0	65.3	65.3	70	N	-	-	46.2	Y	N	N
A1-4a-17	4	46.4	A1-4a	-	19.1	0	29.4	43.2	65.1	46	0	65.2	65.2	70	N	-	-	46.1	Y	N	N
A1-4a-17	5	49.5	A1-4a	-	19.1	0	30.4	43.4	64.9	46.7	0	65	65.0	70	N	-	-	45.9	Y	N	N
A1-4a-17	6	52.6	A1-4a	-	19.1	0	31.4	43.6	64.7	47.4	0	64.8	64.8	70	N	-	-	45.7	Y	N	N
A1-4a-17	7	55.7	A1-4a	-	19.1	0	32.6	43.7	64.5	48.1	0	64.7	64.7	70	N	-	-	45.6	Y	N	N
A1-4a-17	8	58.8	A1-4a	-	19.1	0	33.9	44	64.3	48.9	0	64.5	64.5	70	N	-	-	45.4	Y	N	N
A1-4a-17	9	61.9	A1-4a	-	19	0	35.5	44.2	64.1	49.7	0	64.3	64.3	70	N	-	-	45.3	Y	N	N
A1-4a-17	10	65	A1-4a	-	19	0	37.2	44.5	64	50.5	0	64.2	64.2	70	N	-	-	45.2	Y	N	N
A1-4a-17	11	68.1	A1-4a	-	19	0	39.2	44.9	63.8	51.3	0	64.1	64.1	70	N	-	-	45.1	Y	N	N
A1-4a-17	12	71.2	A1-4a	-	19	0	41	45.5	63.6	52.1	0	64	64.0	70	N	-	-	45.0	Y	N	N
A1-4a-17	13	74.3	A1-4a	-	19	0	42.7	46.3	63.5	52.8	0	63.9	63.9	70	N	-	-	44.9	Y	N	N
A1-4a-17	14	77.4	A1-4a	-	19	0	43.7	47.2	63.3	53.5	0	63.8	63.8	70	N	-	-	44.8	Y	N	N
A1-4a-17	15	80.5	A1-4a	-	19	0	44.6	47.9	63.1	54.1	0	63.8	63.8	70	N	-	-	44.8	Y	N	N
A1-4a-17	16	83.6	A1-4a	-	19	0	45.1	48.4	63	54.6	0	63.8	63.8	70	N	-	-	44.8	Y	N	N
A1-4a-17	17	86.7	A1-4a	-	18.9	0	45.4	48.8	62.8	55.2	0	63.7	63.7	70	N	-	-	44.8	Y	N	N
A1-4a-17	18	89.8	A1-4a	-	18.9	0	45.6	49.6	62.6	55.6	0	63.7	63.7	70	N	-	-	44.8	Y	N	N
A1-4a-17	19	92.9	A1-4a	-	18.9	0	45.7	50.2	62.5	55.7	0	63.6	63.6	70	N	-	-	44.7	Y	N	N
A1-4a-17	20	96	A1-4a	-	18.7	0	45.8	51	62.3	55.9	0	63.5	63.5	70	N	-	-	44.8	Y	N	N
A1-4a-17	21	99.1	A1-4a	-	18.9	0	45.9	51.6	62.2	56.3	0	63.6	63.6	70	N	-	-	44.7	Y	N	N
A1-4a-17	22	102.2	A1-4a	-	18.9	0	46	52	62.1	56.6	0	63.6	63.6	70	N	-	-	44.7	Y	N	N
A1-4a-17	23	105.3	A1-4a	-	19	0	46	52.3	61.9	56.9	0	63.5	63.5	70	N	-	-	44.5	Y	N	N
A1-4a-17	24	108.4	A1-4a	-	18.9	0	46.1	52.4	61.8	57.3	0	63.6	63.6	70	N	-	-	44.7	Y	N	N
A1-4a-17	25	111.5	A1-4a	-	18.9	0	46.2	52.7	61.7	57.6	0	63.6	63.6	70	N	-	-	44.7	Y	N	N
A1-4a-17	26	114.6	A1-4a	-	19.1	0	46.1	52.9	61.6	58	0	63.6	63.6	70	N	-	-	44.5	Y	N	N
A1-4a-17	27	117.7	A1-4a	-	19.2	0	46.2	53.1	61.4	58.3	0	63.6	63.6	70	N	-	-	44.4	Y	N	N
A1-5a-1	1	36.5	A1-5a	-	19.4	0	28.9	45.9	66.3	43.5	0	66.4	66.4	70	N	-	-	47.0	Y	N	N
A1-5a-1	2	39.8	A1-5a	-	19.4	0	29.5	46	66.1	44.2	0	66.2	66.2	70	N	-	-	46.8	Y	N	N
A1-5a-1	3	43.1	A1-5a	-	19.4	0	30	46.1	65.9	44.9	0	66	66.0	70	N	-	-	46.6	Y	N	N
A1-5a-1	4	46.4	A1-5a	-	19.4	0	30.6	46.2	65.6	45.7	0	65.7	65.7	70	N	-	-	46.3	Y	N	N
A1-5a-1	5	49.7	A1-5a	-	19.4	0	31.3	46.3	65.4	46.4	0	65.5	65.5	70	N	-	-	46.1	Y	N	N
A1-5a-1	6	53	A1-5a	-	19.4	0	32.1	46.4	65.1	47.2	0	65.2	65.2	70	N	-	-	45.8	Y	N	N
A1-5a-1	7	56.3	A1-5a	-	19.4	0	33.1	46.7	64.9	48	0	65.1	65.1	70	N	-	-	45.7	Y	N	N
A1-5a-1	8	59.6	A1-5a	-	19.4	0	34.1	47.1	64.7	48.8	0	64.9	64.9	70	N	-	-	45.5	Y	N	N
A1-5a-1	9	62.9	A1-5a	-	19.4	0	35.2	47.5	64.4	49.6	0	64.7	64.7	70	N	-	-	45.3	Y	N	N
A1-5a-1	10	66.2	A1-5a	-	19.4	0	36.7	47.8	64.2	50.5	0	64.5	64.5	70	N	-	-	45.1	Y	N	N
A1-5a-1	11	69.5	A1-5a	-	19.4	0	38.2	47.9	64	51.5	0	64.3	64.3	70	N	-	-	44.9	Y	N	N
A1-5a-1	12	72.8	A1-5a	-	19.4	0	39.9	48.2	63.7	52.4	0	64.2	64.2	70	N	-	-	44.8	Y	N	N
A1-5a-1	13	76.1	A1-5a	-	19.4	0	42.2	48.3	63.6	53.4	0	64.1	64.1	70	N	-	-	44.7	Y	N	N
A1-5a-1	14	79.4	A1-5a	-	19.3	0	43.7	48.7	63.4	54.3	0	64.1	64.1	70	N	-	-	44.8	Y	N	N
A1-5a-1	15	82.7	A1-5a	-	19.3	0	45.3	49	63.2	55	0	64	64.0	70	N	-	-	44.7	Y	N	N
A1-5a-1	16	86	A1-5a	-	19.3	0	46	49.6	63	55.7	0	64	64.0	70	N	-	-	44.7	Y	N	N
A1-5a-1	17	89.3	A1-5a	-	19.3	0	46.3	50.3	62.8	55.9	0	63.9	63.9	70	N	-	-	44.6	Y	N	N
A1-5a-1	18	92.6	A1-5a	-	19.3	0	46.6	51.2	62.7	56.2	0	63.9	63.9	70	N	-	-	44.6	Y	N	N
A1-5a-1	19	95.9	A1-5a	-	19.2	0	46.6	52.1	62.5	56.6	0	63.9	63.9	70	N	-	-	44.7	Y	N	N
A1-5a-1	20	99.2	A1-5a	-	19.3	0	46.7	52.6	62.3	56.9	0	63.8	63.8	70	N	-	-	44.5	Y	N	N
A1-5a-1	21	102.5	A1-5a	-	19.3	0	46.7	52.9	62.2	57.3	0	63.9	63.9	70	N	-	-	44.6	Y	N	N
A1-5a-1	22	105.8	A1-5a	-	19.3	0	46.8	53.1	62	57.7	0	63.9	63.9	70	N	-	-	44.6	Y	N	N
A1-5a-1	23	109.1	A1-5a	-	19.3	0	46.9	53.2	61.9	58	0	63.9	63.9	70	N	-	-	44.6	Y	N	N
A1-5a-1	24	112.4	A1-5a	-	19.2	0	46.9	53.4	61.8	58.4	0	63.9	63.9	70	N	-	-	44.7	Y	N	N
A1-5a-1	25	115.7	A1-5a	-	19.4	0	46.9	53.6	61.6	58.7	0	63.9	63.9	70	N	-	-	44.5	Y	N	N
A1-5a-1	26	119	A1-5a	-	19.8	0	47	53.7	61.5	59.1	0	64	64.0	70	N	-	-	44.2	Y	N	N
A1-5a-2	1	36.5	A1-5a	-	19.5	0	28.9	45.5	67.7	44.5	0	67.8	67.8	70	N	-	-	48.3	Y	N	N
A1-5a-2	2	39.8	A1-5a	-	19.4	0	29.4	45.7	67.5	45	0	67.5	67.5	70	N	-	-	48.1	Y	N	N
A1-5a-2	3	43.1	A1-5a	-	19.4	0	30	45.8	67.2	45.6	0	67.3	67.3	70	N	-	-	47.9	Y	N	N
A1-5a-2	4	46.4	A1-5a	-	19.4	0	30.7	45.9	67	46.3	0	67	67.0	70	N	-	-	47.6	Y	N	N
A1-5a-2	5	49.7	A1-5a	-	19.4	0	31.4	46	66.7	47	0	66.8	66.8	70	N	-	-	47.4	Y	N	N
A1-5a-2	6	53	A1-5a	-	19.4	0	32.2	46.2	66.5	47.7	0	66.6	66.6	70	N	-	-	47.2	Y	N	N
A1-5a-2	7	56.3	A1-5a	-	19.4	0	33	46.5	66.2	48.4	0	66.3	66.3	70	N	-	-	46.9	Y	N	N
A1-5a-2	8	59.6	A1-5a	-	19.4	0	34	47	65.9	49.2	0	66.1	66.1	70	N	-	-	46.7	Y	N	N
A1-5a-2	9	62.9	A1-5a	-	19.4	0	35.2	47.4	65.7	49.9	0	65.9	65.9	70	N	-	-	46.5	Y	N	N
A1-5a-2	10	66.2	A1-5a	-	19.3	0	36.4	47.7	65.4	50.8	0	65.7	65.7	70	N	-	-	46.4	Y	N	N
A1-5a-2	11	69.5	A1-5a	-	19.3	0	38	48	65.2	51.7	0	65.5	65.5	70	N	-	-	46.2	Y	N	N
A1-5a-2	12	72.8	A1-5a	-	19.3	0	39.6	48.2	65	52.6	0	65.4	65.4	70	N	-	-	46.1	Y	N	N
A1-5a-2	13	76.1	A1-5a	-	19.3	0	41.9	48.5	64.8	53.6	0	65.3	65.3	70	N	-	-	46.0	Y	N	N
A1-5a-2	14	79.4	A1-5a	-	19.3	0	43.6	48.8	64.6	54.5	0	65.1	65.1	70	N	-	-	45.8	Y	N	N
A1-5a-2	15	82.7	A1-5a	-	19.3	0	45.3	49.1	64.4	55.3	0	65.1	65.1	70	N	-	-	45.8	Y	N	N
A1-5a-2	16	86	A1-5a	-	19.2	0	46	49.7	64.2	55.9	0	65	65.0	70	N	-	-	45.8	Y	N	N
A1-5a-2	17	89.3	A1-5a	-	19.2	0	46.4	50.5	64.1	56.1	0	65	65.0	70	N	-	-	45.8	Y	N	N
A1-5a-2	18	92.6	A1-5a	-	19.2	0	46.6	51.4	63.9	56.4	0	64.9	64.9	70	N	-	-	45.7	Y	N	N
A1-5a-2	19	95.9	A1-5a	-	19.2	0	46.8	52.2	63.7	56.8	0	64.8	64.8	70	N	-	-	45.6	Y	N	N
A1-5a-2	20	99.2	A1-5a	-	19.2	0	46.9	52.7	63.6	57.1	0	64.8	64.8	70	N	-	-	45.6	Y	N	N
A1-5a-2	21	102.5	A1-5a	-	19.3	0	46.9	53	63.4	57.6	0	64.8	64.8	70	N	-	-	45.5	Y	N	N
A1-5a-2	22	105.8	A1-5a	-	19.3	0	46.9	53.2	63.2	58	0	64.8	64.8	70	N	-	-	45.5	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance: C - A dB(A) [D]	Check Project Impact Significance: D ≥ 1dB(A)	Check Direct Mitigation: New Road Contribution dB(A) [E]	Check Direct Mitigation: New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	Check Direct Mitigation: New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)												
A1-5a-2	23	109.1	A1-5a	-	19.3	0	47	53.3	63.1	58.4	0	64.8	64.8	70	N	-	-	45.5	Y	N	N
A1-5a-2	24	112.4	A1-5a	-	19.2	0	47	53.5	63	58.7	0	64.8	64.8	70	N	-	-	45.6	Y	N	N
A1-5a-2	25	115.7	A1-5a	-	19.4	0	47.1	53.6	62.8	59	0	64.7	64.8	70	N	-	-	45.4	Y	N	N
A1-5a-2	26	119	A1-5a	-	19.8	0	47.1	53.7	62.7	59.4	0	64.8	64.8	70	N	-	-	45.0	Y	N	N
A1-5a-3	1	36.5	A1-5a	-	19.4	0	28.7	46	67.8	44.4	0	67.9	67.9	70	N	-	-	48.5	Y	N	N
A1-5a-3	2	39.8	A1-5a	-	19.4	0	29.2	46.1	67.5	45	0	67.6	67.6	70	N	-	-	48.2	Y	N	N
A1-5a-3	3	43.1	A1-5a	-	19.4	0	29.8	46.1	67.3	45.6	0	67.3	67.3	70	N	-	-	47.9	Y	N	N
A1-5a-3	4	46.4	A1-5a	-	19.4	0	30.5	46.2	67	46.3	0	67.1	67.1	70	N	-	-	47.7	Y	N	N
A1-5a-3	5	49.7	A1-5a	-	19.4	0	31.2	46.2	66.7	46.9	0	66.8	66.8	70	N	-	-	47.4	Y	N	N
A1-5a-3	6	53	A1-5a	-	19.4	0	32	46.3	66.5	47.7	0	66.6	66.6	70	N	-	-	47.2	Y	N	N
A1-5a-3	7	56.3	A1-5a	-	19.4	0	32.8	46.4	66.2	48.4	0	66.3	66.3	70	N	-	-	46.9	Y	N	N
A1-5a-3	8	59.6	A1-5a	-	19.4	0	33.7	46.5	65.9	49.1	0	66.1	66.1	70	N	-	-	46.7	Y	N	N
A1-5a-3	9	62.9	A1-5a	-	19.4	0	34.9	46.7	65.7	50	0	65.9	65.9	70	N	-	-	46.5	Y	N	N
A1-5a-3	10	66.2	A1-5a	-	19.4	0	36.1	47	65.5	50.7	0	65.7	65.7	70	N	-	-	46.3	Y	N	N
A1-5a-3	11	69.5	A1-5a	-	19.3	0	37.5	47.3	65.2	51.6	0	65.5	65.5	70	N	-	-	46.2	Y	N	N
A1-5a-3	12	72.8	A1-5a	-	19.3	0	39	47.8	65	52.6	0	65.4	65.4	70	N	-	-	46.1	Y	N	N
A1-5a-3	13	76.1	A1-5a	-	19.3	0	40.9	48.2	64.8	53.5	0	65.2	65.2	70	N	-	-	45.9	Y	N	N
A1-5a-3	14	79.4	A1-5a	-	19.3	0	42.9	48.6	64.6	54.5	0	65.2	65.2	70	N	-	-	45.9	Y	N	N
A1-5a-3	15	82.7	A1-5a	-	19.3	0	44.7	49.1	64.4	55.3	0	65.1	65.1	70	N	-	-	45.8	Y	N	N
A1-5a-3	16	86	A1-5a	-	19.3	0	45.9	49.6	64.2	56	0	65	65.0	70	N	-	-	45.7	Y	N	N
A1-5a-3	17	89.3	A1-5a	-	19.2	0	46.3	50.5	64.1	56.2	0	65	65.0	70	N	-	-	45.8	Y	N	N
A1-5a-3	18	92.6	A1-5a	-	19.2	0	46.6	51.4	63.9	56.5	0	64.9	64.9	70	N	-	-	45.7	Y	N	N
A1-5a-3	19	95.9	A1-5a	-	19.2	0	46.9	52.2	63.7	56.9	0	64.8	64.8	70	N	-	-	45.6	Y	N	N
A1-5a-3	20	99.2	A1-5a	-	19.2	0	47	52.7	63.6	57.2	0	64.8	64.8	70	N	-	-	45.6	Y	N	N
A1-5a-3	21	102.5	A1-5a	-	19.2	0	47	52.9	63.4	57.6	0	64.8	64.8	70	N	-	-	45.6	Y	N	N
A1-5a-3	22	105.8	A1-5a	-	19.2	0	47	53.2	63.2	58	0	64.8	64.8	70	N	-	-	45.6	Y	N	N
A1-5a-3	23	109.1	A1-5a	-	19.2	0	47.1	53.3	63.1	58.4	0	64.8	64.8	70	N	-	-	45.6	Y	N	N
A1-5a-3	24	112.4	A1-5a	-	19.1	0	47.1	53.5	63	58.8	0	64.8	64.8	70	N	-	-	45.7	Y	N	N
A1-5a-3	25	115.7	A1-5a	-	19.3	0	47.2	53.6	62.8	59.1	0	64.8	64.8	70	N	-	-	45.5	Y	N	N
A1-5a-3	26	119	A1-5a	-	19.7	0	47.2	53.7	62.7	59.5	0	64.8	64.8	70	N	-	-	45.1	Y	N	N
A1-5a-4	1	36.5	A1-5a	-	19.4	0	28.4	47.4	67.8	44.5	0	67.8	67.9	70	N	-	-	48.5	Y	N	N
A1-5a-4	2	39.8	A1-5a	-	19.4	0	29	47.4	67.5	45	0	67.6	67.6	70	N	-	-	48.2	Y	N	N
A1-5a-4	3	43.1	A1-5a	-	19.4	0	29.7	47.3	67.3	45.6	0	67.3	67.3	70	N	-	-	47.9	Y	N	N
A1-5a-4	4	46.4	A1-5a	-	19.4	0	30.4	47.3	67	46.2	0	67.1	67.1	70	N	-	-	47.7	Y	N	N
A1-5a-4	5	49.7	A1-5a	-	19.4	0	31	47.3	66.8	46.9	0	66.9	66.9	70	N	-	-	47.5	Y	N	N
A1-5a-4	6	53	A1-5a	-	19.3	0	31.8	47.3	66.5	47.6	0	66.6	66.6	70	N	-	-	47.3	Y	N	N
A1-5a-4	7	56.3	A1-5a	-	19.3	0	32.6	47.3	66.2	48.3	0	66.3	66.3	70	N	-	-	47.0	Y	N	N
A1-5a-4	8	59.6	A1-5a	-	19.3	0	33.6	47.3	66	49	0	66.1	66.1	70	N	-	-	46.8	Y	N	N
A1-5a-4	9	62.9	A1-5a	-	19.3	0	34.7	47.4	65.7	49.9	0	65.9	65.9	70	N	-	-	46.6	Y	N	N
A1-5a-4	10	66.2	A1-5a	-	19.3	0	36	47.6	65.5	50.6	0	65.7	65.7	70	N	-	-	46.4	Y	N	N
A1-5a-4	11	69.5	A1-5a	-	19.3	0	37.3	47.8	65.3	51.5	0	65.5	65.5	70	N	-	-	46.2	Y	N	N
A1-5a-4	12	72.8	A1-5a	-	19.3	0	38.8	48.1	65.1	52.5	0	65.4	65.4	70	N	-	-	46.1	Y	N	N
A1-5a-4	13	76.1	A1-5a	-	19.2	0	40.5	48.3	64.9	53.5	0	65.3	65.3	70	N	-	-	46.1	Y	N	N
A1-5a-4	14	79.4	A1-5a	-	19.2	0	42.7	48.7	64.6	54.4	0	65.2	65.2	70	N	-	-	46.0	Y	N	N
A1-5a-4	15	82.7	A1-5a	-	19.2	0	43.9	49.1	64.4	55.2	0	65.1	65.1	70	N	-	-	45.9	Y	N	N
A1-5a-4	16	86	A1-5a	-	19.2	0	45.6	49.7	64.3	56	0	65.1	65.1	70	N	-	-	45.9	Y	N	N
A1-5a-4	17	89.3	A1-5a	-	19.2	0	46.3	50.5	64.1	56.2	0	65	65.0	70	N	-	-	45.8	Y	N	N
A1-5a-4	18	92.6	A1-5a	-	19.1	0	46.7	51.4	63.9	56.5	0	64.9	64.9	70	N	-	-	45.8	Y	N	N
A1-5a-4	19	95.9	A1-5a	-	19.1	0	46.9	52.2	63.7	56.9	0	64.9	64.9	70	N	-	-	45.8	Y	N	N
A1-5a-4	20	99.2	A1-5a	-	19.2	0	47.1	52.7	63.6	57.2	0	64.9	64.9	70	N	-	-	45.7	Y	N	N
A1-5a-4	21	102.5	A1-5a	-	19.1	0	47.1	53	63.4	57.7	0	64.8	64.8	70	N	-	-	45.7	Y	N	N
A1-5a-4	22	105.8	A1-5a	-	19.1	0	47.1	53.2	63.3	58	0	64.8	64.8	70	N	-	-	45.7	Y	N	N
A1-5a-4	23	109.1	A1-5a	-	19.1	0	47.2	53.4	63.1	58.4	0	64.8	64.8	70	N	-	-	45.7	Y	N	N
A1-5a-4	24	112.4	A1-5a	-	19	0	47.2	53.5	63	58.8	0	64.8	64.8	70	N	-	-	45.8	Y	N	N
A1-5a-4	25	115.7	A1-5a	-	19.3	0	47.3	53.6	62.8	59.1	0	64.8	64.8	70	N	-	-	45.5	Y	N	N
A1-5a-4	26	119	A1-5a	-	19.6	0	47.3	53.7	62.7	59.5	0	64.8	64.8	70	N	-	-	45.2	Y	N	N
A1-5a-5	1	36.5	A1-5a	-	19.3	0	28.5	48.2	67.8	44.4	0	67.8	67.8	70	N	-	-	48.5	Y	N	N
A1-5a-5	2	39.8	A1-5a	-	19.3	0	29	48.2	67.5	45	0	67.6	67.6	70	N	-	-	48.3	Y	N	N
A1-5a-5	3	43.1	A1-5a	-	19.3	0	29.6	48.1	67.2	45.6	0	67.3	67.3	70	N	-	-	48.0	Y	N	N
A1-5a-5	4	46.4	A1-5a	-	19.3	0	30.3	48.1	67	46.2	0	67.1	67.1	70	N	-	-	47.8	Y	N	N
A1-5a-5	5	49.7	A1-5a	-	19.3	0	31	48	66.7	46.8	0	66.8	66.8	70	N	-	-	47.5	Y	N	N
A1-5a-5	6	53	A1-5a	-	19.3	0	31.6	47.9	66.5	47.5	0	66.6	66.6	70	N	-	-	47.3	Y	N	N
A1-5a-5	7	56.3	A1-5a	-	19.3	0	32.5	47.9	66.2	48.2	0	66.3	66.3	70	N	-	-	47.0	Y	N	N
A1-5a-5	8	59.6	A1-5a	-	19.3	0	33.5	47.9	65.9	49	0	66.1	66.1	70	N	-	-	46.8	Y	N	N
A1-5a-5	9	62.9	A1-5a	-	19.3	0	34.5	47.9	65.7	49.8	0	65.9	65.9	70	N	-	-	46.6	Y	N	N
A1-5a-5	10	66.2	A1-5a	-	19.3	0	35.8	48	65.4	50.5	0	65.7	65.7	70	N	-	-	46.4	Y	N	N
A1-5a-5	11	69.5	A1-5a	-	19.3	0	37.2	48.3	65.2	51.4	0	65.5	65.5	70	N	-	-	46.2	Y	N	N
A1-5a-5	12	72.8	A1-5a	-	19.2	0	38.7	48.5	65	52.4	0	65.4	65.4	70	N	-	-	46.2	Y	N	N
A1-5a-5	13	76.1	A1-5a	-	19.2	0	40.3	48.7	64.8	53.5	0	65.2	65.2	70	N	-	-	46.0	Y	N	N
A1-5a-5	14	79.4	A1-5a	-	19.2	0	41.8	49	64.6	54.3	0	65.1	65.1	70	N	-	-	45.9	Y	N	N
A1-5a-5	15	82.7	A1-5a	-	19.2	0	43.4	49.4	64.4	55.2	0	65	65.0	70	N	-	-	45.8	Y	N	N
A1-5a-5	16	86	A1-5a	-	19.2	0	45.1	49.9	64.2	56	0	65	65.0	70	N	-	-	45.8	Y	N	N
A1-5a-5	17	89.3	A1-5a	-	19.2	0	46.2	50.7	64.1	56.2	0	65	65.0	70	N	-	-	45.8	Y	N	N
A1-5a-5	18	92.6	A1-5a	-	19.1	0	46.7	51.5	63.9	56.5	0	64.9	64.9	70	N	-	-	45.8	Y	N	N
A1-5a-5	19	95.9	A1-5a	-	19.1	0	46.9	52.3	63.7	56.9	0	64.8	64.8	70	N	-	-	45.7	Y	N	N
A1-5a-5	20	99.2	A1-5a	-	19.1	0	47.1	52.8	63.5	57.3	0	64.8	64.8	70	N	-	-	45.7	Y	N	N
A1-5a-5	21	102.5	A1-5a	-	19.1	0	47.2	53.1	63.4	57.6	0	64.8	64.8	70	N	-	-	45.7	Y	N	N
A1-5a-5	22	105.8	A1-5a	-	19.1	0	47.2	53.3	63.2	58.1	0	64.8	64.8	70	N	-	-	45.7	Y	N	N
A1-5a-5	23	109.1	A1-5a	-	19	0	47.3	53.4	63.1	58.5	0	64.8	64.8	70	N	-	-	45.8	Y	N	N
A1-5a-5	24	112.4	A1-5a	-	19	0	47.3	53.5	62.9	58.9	0	64.8	64.8	70	N	-	-	45.8	Y	N	N
A1-5a-5	25	115.7	A1-5a	-	19.2	0	47.4	53.6	62.8	59.2	0	64.8	64.8	70	N	-	-	45.6	Y	N	N
A1-5a-5	26	119	A1-5a	-	19.5	0	47.4	53.7	62.7	59.6	0	64.8	64.8	70	N	-	-	45.3	Y	N	N
A1-5a-6	1	36.5	A1-5a	-	19.3	0	28.4	49.5	67.7	44.5	0	67.8	67.8	70	N	-	-	48.5	Y	N	N
A1-5a-6	2	39.8	A1-5a	-	19.3	0	28.9	49.4	67.5	45	0	67.5	67.5	70	N	-	-	48.2	Y	N	N
A1-5a-6	3	43.1	A1-5a	-	19.3	0	29.5	49.3	67.2	45.5	0	67.3	67.3	70	N	-	-	48.0	Y	N	N
A1-5a-6	4	46.4	A1-5a	-	19.3	0	30.2	49.2	66.9	46.1	0	67	67.0	70	N	-	-	47.7	Y	N	N
A1-5a-6	5	49.7	A1-5a	-	19.3	0	30.8	49.1	66.7	46.8	0	66.8	66.8	70	N	-	-	47.5	Y	N	N
A1-5a-6	6	53	A1-5a	-	19.3	0	31.6	49	66.4	47.5	0	66.5	66.5	70	N	-	-	47.2	Y	N	N
A1-5a-6	7	56.3	A1-5a	-	19.3	0	32.5	49	66.1	48.2	0	66.3	66.3	70	N	-	-	47.0	Y	N	N
A1-5a-6	8	59.6	A1-5a	-	19.2	0	33.3	48.9	65.9	48.9	0	66.1	66.1	70	N	-	-	46.9	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
A1-5a-6	9	62.9	A1-5a	-	19.2	0	34.5	49	65.7	49.7	0	65.9	65.9	70	N	-	-	46.7	Y	N	N
A1-5a-6	10	66.2	A1-5a	-	19.2	0	35.7	48.9	65.4	50.5	0	65.6	65.6	70	N	-	-	46.4	Y	N	N
A1-5a-6	11	69.5	A1-5a	-	19.2	0	37	49	65.2	51.3	0	65.5	65.5	70	N	-	-	46.3	Y	N	N
A1-5a-6	12	72.8	A1-5a	-	19.2	0	38.6	49.1	65	52.3	0	65.3	65.3	70	N	-	-	46.1	Y	N	N
A1-5a-6	13	76.1	A1-5a	-	19.2	0	40.1	49.2	64.8	53.3	0	65.2	65.2	70	N	-	-	46.0	Y	N	N
A1-5a-6	14	79.4	A1-5a	-	19.1	0	41.6	49.4	64.6	54.2	0	65.1	65.1	70	N	-	-	46.0	Y	N	N
A1-5a-6	15	82.7	A1-5a	-	19.1	0	43.6	49.7	64.4	55.2	0	65	65.0	70	N	-	-	45.9	Y	N	N
A1-5a-6	16	86	A1-5a	-	19.1	0	44.6	50.1	64.2	55.9	0	65	65.0	70	N	-	-	45.9	Y	N	N
A1-5a-6	17	89.3	A1-5a	-	19.1	0	46	50.8	64	56.2	0	64.9	64.9	70	N	-	-	45.8	Y	N	N
A1-5a-6	18	92.6	A1-5a	-	19.1	0	46.6	51.3	63.9	56.5	0	64.9	64.9	70	N	-	-	45.8	Y	N	N
A1-5a-6	19	95.9	A1-5a	-	19	0	46.9	52.2	63.7	56.8	0	64.8	64.8	70	N	-	-	45.8	Y	N	N
A1-5a-6	20	99.2	A1-5a	-	19	0	47	52.7	63.5	57.3	0	64.8	64.8	70	N	-	-	45.8	Y	N	N
A1-5a-6	21	102.5	A1-5a	-	19.1	0	47.2	53	63.4	57.7	0	64.8	64.8	70	N	-	-	45.7	Y	N	N
A1-5a-6	22	105.8	A1-5a	-	19.1	0	47.3	53.2	63.2	58.1	0	64.8	64.8	70	N	-	-	45.7	Y	N	N
A1-5a-6	23	109.1	A1-5a	-	19	0	47.4	53.4	63.1	58.5	0	64.8	64.8	70	N	-	-	45.8	Y	N	N
A1-5a-6	24	112.4	A1-5a	-	18.9	0	47.4	53.5	62.9	58.9	0	64.8	64.8	70	N	-	-	45.9	Y	N	N
A1-5a-6	25	115.7	A1-5a	-	19.2	0	47.5	53.6	62.8	59.2	0	64.8	64.8	70	N	-	-	45.6	Y	N	N
A1-5a-6	26	119	A1-5a	-	19.4	0	47.5	53.7	62.6	59.5	0	64.8	64.8	70	N	-	-	45.4	Y	N	N
A1-5a-7	1	36.5	A1-5a	-	19.2	0	28.4	50.2	67.7	44.4	0	67.8	67.8	70	N	-	-	48.6	Y	N	N
A1-5a-7	2	39.8	A1-5a	-	19.2	0	28.9	50.1	67.4	44.9	0	67.5	67.5	70	N	-	-	48.3	Y	N	N
A1-5a-7	3	43.1	A1-5a	-	19.3	0	29.5	50	67.1	45.5	0	67.2	67.2	70	N	-	-	47.9	Y	N	N
A1-5a-7	4	46.4	A1-5a	-	19.3	0	30.1	49.9	66.9	46.1	0	67	67.0	70	N	-	-	47.7	Y	N	N
A1-5a-7	5	49.7	A1-5a	-	19.2	0	30.8	49.9	66.6	46.7	0	66.8	66.8	70	N	-	-	47.6	Y	N	N
A1-5a-7	6	53	A1-5a	-	19.2	0	31.6	49.7	66.3	47.4	0	66.5	66.5	70	N	-	-	47.3	Y	N	N
A1-5a-7	7	56.3	A1-5a	-	19.2	0	32.4	49.7	66.1	48.1	0	66.3	66.3	70	N	-	-	47.1	Y	N	N
A1-5a-7	8	59.6	A1-5a	-	19.2	0	33.4	49.6	65.9	48.8	0	66	66.0	70	N	-	-	46.8	Y	N	N
A1-5a-7	9	62.9	A1-5a	-	19.2	0	34.4	49.6	65.6	49.6	0	65.8	65.8	70	N	-	-	46.6	Y	N	N
A1-5a-7	10	66.2	A1-5a	-	19.2	0	35.5	49.5	65.4	50.3	0	65.6	65.6	70	N	-	-	46.4	Y	N	N
A1-5a-7	11	69.5	A1-5a	-	19.2	0	36.9	49.5	65.2	51.2	0	65.5	65.5	70	N	-	-	46.3	Y	N	N
A1-5a-7	12	72.8	A1-5a	-	19.1	0	38.4	49.6	65	52	0	65.3	65.3	70	N	-	-	46.2	Y	N	N
A1-5a-7	13	76.1	A1-5a	-	19.1	0	39.9	49.7	64.7	53	0	65.1	65.1	70	N	-	-	46.0	Y	N	N
A1-5a-7	14	79.4	A1-5a	-	19.1	0	41.4	49.8	64.5	54	0	65	65.0	70	N	-	-	45.9	Y	N	N
A1-5a-7	15	82.7	A1-5a	-	19.1	0	42.8	49.9	64.3	55.1	0	65	65.0	70	N	-	-	45.9	Y	N	N
A1-5a-7	16	86	A1-5a	-	19.1	0	44.1	50.2	64.1	55.9	0	64.9	64.9	70	N	-	-	45.8	Y	N	N
A1-5a-7	17	89.3	A1-5a	-	19.1	0	45.6	50.7	64	56.2	0	64.9	64.9	70	N	-	-	45.8	Y	N	N
A1-5a-7	18	92.6	A1-5a	-	19	0	46.5	51.2	63.8	56.5	0	64.8	64.8	70	N	-	-	45.8	Y	N	N
A1-5a-7	19	95.9	A1-5a	-	18.9	0	46.9	52	63.6	56.9	0	64.8	64.8	70	N	-	-	45.9	Y	N	N
A1-5a-7	20	99.2	A1-5a	-	19	0	47.1	52.6	63.5	57.3	0	64.8	64.8	70	N	-	-	45.8	Y	N	N
A1-5a-7	21	102.5	A1-5a	-	19	0	47.3	53	63.3	57.7	0	64.7	64.7	70	N	-	-	45.7	Y	N	N
A1-5a-7	22	105.8	A1-5a	-	19	0	47.3	53.2	63.2	58.1	0	64.7	64.7	70	N	-	-	45.7	Y	N	N
A1-5a-7	23	109.1	A1-5a	-	18.9	0	47.5	53.4	63	58.5	0	64.8	64.8	70	N	-	-	45.9	Y	N	N
A1-5a-7	24	112.4	A1-5a	-	18.9	0	47.5	53.5	62.9	58.9	0	64.8	64.8	70	N	-	-	45.9	Y	N	N
A1-5a-7	25	115.7	A1-5a	-	19.1	0	47.5	53.6	62.7	59.3	0	64.8	64.8	70	N	-	-	45.7	Y	N	N
A1-5a-7	26	119	A1-5a	-	19.4	0	47.6	53.7	62.6	59.6	0	64.8	64.8	70	N	-	-	45.4	Y	N	N
A1-5a-8	1	36.5	A1-5a	-	19.2	0	28	50.6	67.6	44.4	0	67.7	67.7	70	N	-	-	48.5	Y	N	N
A1-5a-8	2	39.8	A1-5a	-	19.2	0	28.6	50.5	67.3	44.9	0	67.4	67.4	70	N	-	-	48.2	Y	N	N
A1-5a-8	3	43.1	A1-5a	-	19.2	0	29.2	50.4	67	45.5	0	67.2	67.2	70	N	-	-	48.0	Y	N	N
A1-5a-8	4	46.4	A1-5a	-	19.2	0	29.9	50.3	66.8	46.1	0	66.9	66.9	70	N	-	-	47.7	Y	N	N
A1-5a-8	5	49.7	A1-5a	-	19.2	0	30.5	50.3	66.5	46.6	0	66.6	66.6	70	N	-	-	47.4	Y	N	N
A1-5a-8	6	53	A1-5a	-	19.2	0	31.3	50.2	66.2	47.3	0	66.4	66.4	70	N	-	-	47.2	Y	N	N
A1-5a-8	7	56.3	A1-5a	-	19.1	0	32.2	50.1	66	48	0	66.2	66.2	70	N	-	-	47.1	Y	N	N
A1-5a-8	8	59.6	A1-5a	-	19.1	0	33.1	50	65.7	48.7	0	65.9	65.9	70	N	-	-	46.8	Y	N	N
A1-5a-8	9	62.9	A1-5a	-	19.1	0	34.1	50	65.5	49.4	0	65.7	65.7	70	N	-	-	46.6	Y	N	N
A1-5a-8	10	66.2	A1-5a	-	19.1	0	35.3	49.9	65.3	50.2	0	65.5	65.5	70	N	-	-	46.4	Y	N	N
A1-5a-8	11	69.5	A1-5a	-	19.1	0	36.5	49.9	65.1	51	0	65.4	65.4	70	N	-	-	46.3	Y	N	N
A1-5a-8	12	72.8	A1-5a	-	19.1	0	38	49.9	64.8	51.9	0	65.2	65.2	70	N	-	-	46.1	Y	N	N
A1-5a-8	13	76.1	A1-5a	-	19.1	0	39.4	50	64.6	52.8	0	65.1	65.1	70	N	-	-	46.0	Y	N	N
A1-5a-8	14	79.4	A1-5a	-	19	0	41.2	50.1	64.4	54	0	65	65.0	70	N	-	-	46.0	Y	N	N
A1-5a-8	15	82.7	A1-5a	-	19	0	42.5	50.2	64.2	54.8	0	64.9	64.9	70	N	-	-	45.9	Y	N	N
A1-5a-8	16	86	A1-5a	-	19	0	44	50.4	64	55.8	0	64.8	64.8	70	N	-	-	45.8	Y	N	N
A1-5a-8	17	89.3	A1-5a	-	19	0	45.1	50.7	63.8	56.1	0	64.7	64.7	70	N	-	-	45.7	Y	N	N
A1-5a-8	18	92.6	A1-5a	-	19	0	46.2	51.2	63.7	56.5	0	64.7	64.7	70	N	-	-	45.7	Y	N	N
A1-5a-8	19	95.9	A1-5a	-	18.9	0	46.7	51.8	63.5	56.9	0	64.7	64.7	70	N	-	-	45.8	Y	N	N
A1-5a-8	20	99.2	A1-5a	-	19	0	47.1	52.5	63.3	57.3	0	64.7	64.7	70	N	-	-	45.7	Y	N	N
A1-5a-8	21	102.5	A1-5a	-	18.9	0	47.3	52.9	63.2	57.7	0	64.7	64.7	70	N	-	-	45.8	Y	N	N
A1-5a-8	22	105.8	A1-5a	-	18.9	0	47.3	53.1	63	58.2	0	64.7	64.7	70	N	-	-	45.8	Y	N	N
A1-5a-8	23	109.1	A1-5a	-	18.9	0	47.5	53.3	62.9	58.5	0	64.7	64.7	70	N	-	-	45.8	Y	N	N
A1-5a-8	24	112.4	A1-5a	-	18.9	0	47.5	53.4	62.8	59	0	64.7	64.7	70	N	-	-	45.8	Y	N	N
A1-5a-8	25	115.7	A1-5a	-	19	0	47.5	53.6	62.6	59.2	0	64.7	64.7	70	N	-	-	45.7	Y	N	N
A1-5a-8	26	119	A1-5a	-	19.3	0	47.6	53.7	62.5	59.6	0	64.7	64.7	70	N	-	-	45.4	Y	N	N
A1-5a-9	1	36.5	A1-5a	-	19.1	0	28	51.1	67.5	44.4	0	67.6	67.6	70	N	-	-	48.5	Y	N	N
A1-5a-9	2	39.8	A1-5a	-	19.2	0	28.6	51	67.3	44.9	0	67.4	67.4	70	N	-	-	48.2	Y	N	N
A1-5a-9	3	43.1	A1-5a	-	19.2	0	29.1	50.9	67	45.4	0	67.1	67.1	70	N	-	-	47.9	Y	N	N
A1-5a-9	4	46.4	A1-5a	-	19.1	0	29.8	50.8	66.7	45.9	0	66.9	66.9	70	N	-	-	47.8	Y	N	N
A1-5a-9	5	49.7	A1-5a	-	19.1	0	30.5	50.8	66.4	46.6	0	66.6	66.6	70	N	-	-	47.5	Y	N	N
A1-5a-9	6	53	A1-5a	-	19.2	0	31.3	50.7	66.2	47.3	0	66.4	66.4	70	N	-	-	47.2	Y	N	N
A1-5a-9	7	56.3	A1-5a	-	19.2	0	32.1	50.5	65.9	47.9	0	66.1	66.1	70	N	-	-	46.9	Y	N	N
A1-5a-9	8	59.6	A1-5a	-	19.1	0	33	50.5	65.7	48.6	0	65.9	65.9	70	N	-	-	46.8	Y	N	N
A1-5a-9	9	62.9	A1-5a	-	19.1	0	34	50.5	65.4	49.3	0	65.7	65.7	70	N	-	-	46.6	Y	N	N
A1-5a-9	10	66.2	A1-5a	-	19.1	0	35.1	50.4	65.2	50	0	65.5	65.5	70	N	-	-	46.4	Y	N	N
A1-5a-9	11	69.5	A1-5a	-	19.1	0	36.3	50.3	65	50.9	0	65.3	65.3	70	N	-	-	46.2	Y	N	N
A1-5a-9	12	72.8	A1-5a	-	19.1	0	37.7	50.3	64.8	51.7	0	65.1	65.1	70	N	-	-	46.0	Y	N	N
A1-5a-9	13	76.1	A1-5a	-	19.1	0	39.3	50.4	64.6	52.6	0	65	65.0	70	N	-	-	45.9	Y	N	N
A1-5a-9	14	79.4	A1-5a	-	19	0	40.9	50.4	64.4	53.6	0	64.9	64.9	70	N	-	-	45.9	Y	N	N
A1-5a-9	15	82.7	A1-5a	-	19	0	42.4	50.5	64.2	54.5	0	64.8	64.8	70	N	-	-	45.8	Y	N	N
A1-5a-9	16	86	A1-5a	-	19	0	43.6	50.6	64	55.6	0	64.8	64.8	70	N	-	-	45.8	Y	N	N
A1-5a-9	17	89.3	A1-5a	-	19	0	44.5	50.8	63.8	56	0	64.7	64.7	70	N	-	-	45.7	Y	N	N
A1-5a-9	18	92.6	A1-5a	-	19	0	45.8	51.2	63.7	56.4	0	64.7	64.7	70	N	-	-	45.7	Y	N	N
A1-5a-9	19	95.9	A1-5a	-	18.9	0	46.6	51.6	63.5	56.9	0	64.6	64.6	70	N	-	-	45.7	Y	N	N
A1-5a-9	20	99.2	A1-5a	-	18.9	0	47	52.3	63.3	57.3	0	64.6	64.6	70	N	-	-	45.7	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT															
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	New Roads[2]					New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
A1-5a-9	21	102.5	A1-5a	-	18.9	0	47.3	52.7	63.2	57.7	0	64.6	64.6	70	N	-	-	45.7	Y	N	N
A1-5a-9	22	105.8	A1-5a	-	18.9	0	47.4	53	63	58.2	0	64.6	64.6	70	N	-	-	45.7	Y	N	N
A1-5a-9	23	109.1	A1-5a	-	18.9	0	47.5	53.2	62.9	58.5	0	64.6	64.6	70	N	-	-	45.7	Y	N	N
A1-5a-9	24	112.4	A1-5a	-	18.9	0	47.6	53.3	62.7	58.9	0	64.7	64.7	70	N	-	-	45.8	Y	N	N
A1-5a-9	25	115.7	A1-5a	-	19	0	47.6	53.4	62.6	59.2	0	64.7	64.7	70	N	-	-	45.7	Y	N	N
A1-5a-9	26	119	A1-5a	-	19.3	0	47.6	53.6	62.4	59.7	0	64.7	64.7	70	N	-	-	45.4	Y	N	N
A1-5a-10	1	36.5	A1-5a	-	19.3	0	33.4	51.4	67.3	44.3	0	67.5	67.5	70	N	-	-	48.2	Y	N	N
A1-5a-10	2	39.8	A1-5a	-	19.5	0	33.9	51.3	67	44.8	0	67.2	67.2	70	N	-	-	47.7	Y	N	N
A1-5a-10	3	43.1	A1-5a	-	19.6	0	34.5	51.2	66.8	45.3	0	67	67.0	70	N	-	-	47.4	Y	N	N
A1-5a-10	4	46.4	A1-5a	-	19.8	0	35.1	51.1	66.6	45.9	0	66.7	66.7	70	N	-	-	46.9	Y	N	N
A1-5a-10	5	49.7	A1-5a	-	20	0	35.6	50.9	66.3	46.5	0	66.5	66.5	70	N	-	-	46.5	Y	N	N
A1-5a-10	6	53	A1-5a	-	20.2	0	36	50.9	66	47.1	0	66.2	66.2	70	N	-	-	46.0	Y	N	N
A1-5a-10	7	56.3	A1-5a	-	20.6	0	36.5	50.8	65.8	47.8	0	66	66.0	70	N	-	-	45.4	Y	N	N
A1-5a-10	8	59.6	A1-5a	-	20.9	0	37	50.7	65.5	48.5	0	65.8	65.8	70	N	-	-	44.9	Y	N	N
A1-5a-10	9	62.9	A1-5a	-	21.2	0	37.5	50.6	65.3	49.2	0	65.5	65.5	70	N	-	-	44.3	Y	N	N
A1-5a-10	10	66.2	A1-5a	-	21.6	0	38.1	50.6	65.1	49.9	0	65.4	65.4	70	N	-	-	43.8	Y	N	N
A1-5a-10	11	69.5	A1-5a	-	22	0	38.8	50.5	64.8	50.7	0	65.2	65.2	70	N	-	-	43.2	Y	N	N
A1-5a-10	12	72.8	A1-5a	-	22.2	0	39.5	50.5	64.6	51.4	0	65	65.0	70	N	-	-	42.8	Y	N	N
A1-5a-10	13	76.1	A1-5a	-	22.4	0	40.5	50.5	64.4	52.2	0	64.9	64.9	70	N	-	-	42.5	Y	N	N
A1-5a-10	14	79.4	A1-5a	-	22.7	0	41.6	50.5	64.2	53.1	0	64.8	64.8	70	N	-	-	42.1	Y	N	N
A1-5a-10	15	82.7	A1-5a	-	22.9	0	42.9	50.6	64	54.2	0	64.7	64.7	70	N	-	-	41.8	Y	N	N
A1-5a-10	16	86	A1-5a	-	23.1	0	43.9	50.7	63.8	55.1	0	64.6	64.6	70	N	-	-	41.5	Y	N	N
A1-5a-10	17	89.3	A1-5a	-	23.5	0	45.1	50.8	63.6	55.7	0	64.5	64.5	70	N	-	-	41.0	Y	N	N
A1-5a-10	18	92.6	A1-5a	-	23.8	0	45.7	51	63.5	56.1	0	64.5	64.5	70	N	-	-	40.7	Y	N	N
A1-5a-10	19	95.9	A1-5a	-	24.1	0	46.7	51.4	63.3	56.6	0	64.5	64.5	70	N	-	-	40.4	Y	N	N
A1-5a-10	20	99.2	A1-5a	-	24.6	0	47.3	51.8	63.1	57	0	64.4	64.4	70	N	-	-	39.8	Y	N	N
A1-5a-10	21	102.5	A1-5a	-	25.3	0	47.6	52.4	63	57.5	0	64.5	64.5	70	N	-	-	39.2	Y	N	N
A1-5a-10	22	105.8	A1-5a	-	25.2	0	47.8	52.7	62.8	58	0	64.5	64.5	70	N	-	-	39.3	Y	N	N
A1-5a-10	23	109.1	A1-5a	-	25.5	0	47.9	53	62.7	58.4	0	64.5	64.5	70	N	-	-	39.0	Y	N	N
A1-5a-10	24	112.4	A1-5a	-	25.7	0	47.9	53.2	62.6	58.9	0	64.5	64.5	70	N	-	-	38.8	Y	N	N
A1-5a-10	25	115.7	A1-5a	-	26.3	0	48	53.3	62.4	59.2	0	64.6	64.6	70	N	-	-	38.3	Y	N	N
A1-5a-10	26	119	A1-5a	-	26.7	0	48.1	53.4	62.3	59.6	0	64.6	64.6	70	N	-	-	37.9	Y	N	N
A1-5a-11	1	36.5	A1-5a	-	19.7	0	27.6	51	67	44.3	0	67.2	67.2	70	N	-	-	47.5	Y	N	N
A1-5a-11	2	39.8	A1-5a	-	19.9	0	28.1	50.9	66.8	44.8	0	66.9	66.9	70	N	-	-	47.0	Y	N	N
A1-5a-11	3	43.1	A1-5a	-	20.2	0	28.8	50.8	66.6	45.3	0	66.7	66.7	70	N	-	-	46.5	Y	N	N
A1-5a-11	4	46.4	A1-5a	-	20.5	0	29.4	50.7	66.3	45.8	0	66.5	66.5	70	N	-	-	46.0	Y	N	N
A1-5a-11	5	49.7	A1-5a	-	20.9	0	30.2	50.6	66	46.4	0	66.2	66.2	70	N	-	-	45.3	Y	N	N
A1-5a-11	6	53	A1-5a	-	21.4	0	30.9	50.5	65.8	47	0	66	66.0	70	N	-	-	44.6	Y	N	N
A1-5a-11	7	56.3	A1-5a	-	22	0	31.7	50.5	65.6	47.7	0	65.8	65.8	70	N	-	-	43.8	Y	N	N
A1-5a-11	8	59.6	A1-5a	-	22.5	0	32.6	50.4	65.3	48.4	0	65.6	65.6	70	N	-	-	43.1	Y	N	N
A1-5a-11	9	62.9	A1-5a	-	23	0	33.6	50.3	65.1	49	0	65.3	65.3	70	N	-	-	42.3	Y	N	N
A1-5a-11	10	66.2	A1-5a	-	23.6	0	34.6	50.3	64.8	49.7	0	65.1	65.1	70	N	-	-	41.5	Y	N	N
A1-5a-11	11	69.5	A1-5a	-	24.1	0	35.7	50.2	64.6	50.4	0	65	65.0	70	N	-	-	40.9	Y	N	N
A1-5a-11	12	72.8	A1-5a	-	24.5	0	37	50.2	64.4	51.2	0	64.8	64.8	70	N	-	-	40.3	Y	N	N
A1-5a-11	13	76.1	A1-5a	-	24.8	0	38.4	50.2	64.2	52	0	64.7	64.7	70	N	-	-	39.9	Y	N	N
A1-5a-11	14	79.4	A1-5a	-	25.1	0	39.9	50.2	64	53	0	64.5	64.5	70	N	-	-	39.4	Y	N	N
A1-5a-11	15	82.7	A1-5a	-	25.4	0	41.6	50.3	63.9	54.1	0	64.5	64.5	70	N	-	-	39.1	Y	N	N
A1-5a-11	16	86	A1-5a	-	25.7	0	42.8	50.3	63.7	54.9	0	64.4	64.4	70	N	-	-	38.7	Y	N	N
A1-5a-11	17	89.3	A1-5a	-	26.2	0	43.9	50.5	63.5	55.4	0	64.3	64.3	70	N	-	-	38.1	Y	N	N
A1-5a-11	18	92.6	A1-5a	-	26.4	0	44.7	50.7	63.3	55.8	0	64.3	64.3	70	N	-	-	37.9	Y	N	N
A1-5a-11	19	95.9	A1-5a	-	27	0	46	51.2	63.2	56.3	0	64.3	64.3	70	N	-	-	37.3	Y	N	N
A1-5a-11	20	99.2	A1-5a	-	27.6	0	46.7	51.4	63	56.8	0	64.2	64.2	70	N	-	-	36.6	Y	N	N
A1-5a-11	21	102.5	A1-5a	-	28.3	0	47.2	52	62.8	57.3	0	64.3	64.3	70	N	-	-	36.0	Y	N	N
A1-5a-11	22	105.8	A1-5a	-	28.2	0	47.3	52.4	62.7	57.8	0	64.3	64.3	70	N	-	-	36.1	Y	N	N
A1-5a-11	23	109.1	A1-5a	-	28.6	0	47.5	52.7	62.5	58.3	0	64.3	64.3	70	N	-	-	35.7	Y	N	N
A1-5a-11	24	112.4	A1-5a	-	28.9	0	47.5	53	62.4	58.6	0	64.3	64.3	70	N	-	-	35.4	Y	N	N
A1-5a-11	25	115.7	A1-5a	-	29.4	0	47.7	53.2	62.3	59	0	64.4	64.4	70	N	-	-	35.0	Y	N	N
A1-5a-11	26	119	A1-5a	-	30	0	47.6	53.3	62.1	59.5	0	64.5	64.5	70	N	-	-	34.5	Y	N	N
A1-5a-12	1	36.5	A1-5a	-	12.2	0	23.8	46.3	65.4	43.2	0	65.5	65.5	70	N	-	-	53.3	Y	N	N
A1-5a-12	2	39.8	A1-5a	-	12.2	0	24.4	46.4	65.2	43.6	0	65.3	65.3	70	N	-	-	53.1	Y	N	N
A1-5a-12	3	43.1	A1-5a	-	12.2	0	25	46.4	65	44.1	0	65	65.0	70	N	-	-	52.8	Y	N	N
A1-5a-12	4	46.4	A1-5a	-	12.2	0	25.6	46.5	64.7	44.6	0	64.8	64.8	70	N	-	-	52.6	Y	N	N
A1-5a-12	5	49.7	A1-5a	-	12.2	0	26.4	46.5	64.5	45.2	0	64.6	64.6	70	N	-	-	52.4	Y	N	N
A1-5a-12	6	53	A1-5a	-	12.2	0	27.1	46.5	64.2	45.7	0	64.3	64.3	70	N	-	-	52.1	Y	N	N
A1-5a-12	7	56.3	A1-5a	-	12.1	0	27.9	46.6	64	46.3	0	64.2	64.2	70	N	-	-	52.1	Y	N	N
A1-5a-12	8	59.6	A1-5a	-	12.1	0	28.5	46.6	63.8	47	0	63.9	63.9	70	N	-	-	51.8	Y	N	N
A1-5a-12	9	62.9	A1-5a	-	12.1	0	29.5	46.7	63.6	47.6	0	63.8	63.8	70	N	-	-	51.7	Y	N	N
A1-5a-12	10	66.2	A1-5a	-	12.1	0	30.5	46.8	63.4	48.3	0	63.6	63.6	70	N	-	-	51.5	Y	N	N
A1-5a-12	11	69.5	A1-5a	-	12.1	0	31.2	46.9	63.1	49.1	0	63.4	63.4	70	N	-	-	51.3	Y	N	N
A1-5a-12	12	72.8	A1-5a	-	12.1	0	32.2	47.1	62.9	49.8	0	63.2	63.2	70	N	-	-	51.1	Y	N	N
A1-5a-12	13	76.1	A1-5a	-	12.1	0	33.2	47.2	62.7	50.6	0	63.1	63.1	70	N	-	-	51.0	Y	N	N
A1-5a-12	14	79.4	A1-5a	-	12	0	34.4	47.2	62.5	51.4	0	63	63.0	70	N	-	-	51.0	Y	N	N
A1-5a-12	15	82.7	A1-5a	-	12	0	35.6	47.4	62.3	52.5	0	62.9	62.9	70	N	-	-	50.9	Y	N	N
A1-5a-12	16	86	A1-5a	-	12	0	36.8	47.6	62.1	53.2	0	62.8	62.8	70	N	-	-	50.8	Y	N	N
A1-5a-12	17	89.3	A1-5a	-	12	0	38.5	47.9	62	53.8	0	62.8	62.8	70	N	-	-	50.8	Y	N	N
A1-5a-12	18	92.6	A1-5a	-	12	0	40.1	48.2	61.8	54.4	0	62.7	62.7	70	N	-	-	50.7	Y	N	N
A1-5a-12	19	95.9	A1-5a	-	12	0	41.9	48.7	61.6	55	0	62.7	62.7	70	N	-	-	50.7	Y	N	N
A1-5a-12	20	99.2	A1-5a	-	11.9	0	43	49	61.5	55.4	0	62.7	62.7	70	N	-	-	50.8	Y	N	N
A1-5a-12	21	102.5	A1-5a	-	11.9	0	43.6	49.7	61.3	55.9	0	62.7	62.7	70	N	-	-	50.8	Y	N	N
A1-5a-12	22	105.8	A1-5a	-	11.9	0	43.9	50.3	61.2	56.5	0	62.8	62.8	70	N	-	-	50.9	Y	N	N
A1-5a-12	23	109.1	A1-5a	-	11.9	0	44.2	50.7	61	56.9	0	62.8	62.8	70	N	-	-	50.9	Y	N	N
A1-5a-12	24	112.4	A1-5a	-	11.6	0	44.3	51	60.9	57.4	0	62.9	62.9	70	N	-	-	51.3	Y	N	N
A1-5a-12	25	115.7	A1-5a	-	12.5	0	44.4	51.3	60.8	57.8	0	62.9	62.9	70	N	-	-	50.4	Y	N	N
A1-5a-12	26	119	A1-5a	-	13.6	0	44.5	51.5	60.6	58.3	0	63	63.0	70	N	-	-	49.4	Y	N	N
A1-5a-13	1	36.8	A1-5a	-	0	0	0	45.5	59.6	4.3	0	59.8	59.8	70	N	-	-	59.8	Y	N	N
A1-5a-13	2	40.1	A1-5a	-	0	0	0	45.5	59.5	4.9	0	59.7	59.7	70	N	-	-	59.7	Y	N	N
A1-5a-13	3	43.4	A1-5a	-	0	0	0	45.5	59.4	5.5	0	59.6	59.6	70	N	-	-	59.6	Y	N	N
A1-5a-13	4	46.7	A1-5a	-	0	0	0	45.6	59.3	6.1	0	59.5	59.5	70	N	-	-	59.5	Y	N	N
A1-5a-13	5	50	A1-5a	-	0	0	0	45.6	59.1	6.8	0	59.3	59.3	70	N	-	-	59.3	Y	N	N
A1-5a-13	6	53.3	A1-5a	-	0	0	0	45.6	59	7.6	0	59.2	59.2	70	N	-	-	59.2	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	New Roads[2]						Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]				C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
A1-5a-13	7	56.6	A1-5a	-	0	0	0	45.7	58.9	8.3	0	59.1	59.1	70	N	-	-	59.1	Y	N	N
A1-5a-13	8	59.9	A1-5a	-	0	0	0	45.7	58.7	8.8	0	59	59.0	70	N	-	-	59.0	Y	N	N
A1-5a-13	9	63.2	A1-5a	-	0	0	0	45.8	58.6	9.6	0	58.8	58.8	70	N	-	-	58.8	Y	N	N
A1-5a-13	10	66.5	A1-5a	-	0	0	0	45.8	58.5	10.4	0	58.7	58.7	70	N	-	-	58.7	Y	N	N
A1-5a-13	11	69.8	A1-5a	-	0	0	0	45.8	58.3	11.1	0	58.5	58.5	70	N	-	-	58.5	Y	N	N
A1-5a-13	12	73.1	A1-5a	-	0	0	0	45.9	58.2	11.8	0	58.4	58.4	70	N	-	-	58.4	Y	N	N
A1-5a-13	13	76.4	A1-5a	-	0	0	0	45.9	58	12.6	0	58.3	58.3	70	N	-	-	58.3	Y	N	N
A1-5a-13	14	79.7	A1-5a	-	0	0	0	46	57.9	13.4	0	58.2	58.2	70	N	-	-	58.2	Y	N	N
A1-5a-13	15	83	A1-5a	-	0	0	0	46.1	57.7	14.3	0	58	58.0	70	N	-	-	58.0	Y	N	N
A1-5a-13	16	86.3	A1-5a	-	0	0	0	46.2	57.6	14.9	0	57.9	57.9	70	N	-	-	57.9	Y	N	N
A1-5a-13	17	89.6	A1-5a	-	0	0	0	46.2	57.5	15.7	0	57.8	57.8	70	N	-	-	57.8	Y	N	N
A1-5a-13	18	92.9	A1-5a	-	0	0	0	46.3	57.3	16.4	0	57.7	57.7	70	N	-	-	57.7	Y	N	N
A1-5a-13	19	96.2	A1-5a	-	0	0	0	46.4	57.2	16.8	0	57.6	57.6	70	N	-	-	57.6	Y	N	N
A1-5a-13	20	99.5	A1-5a	-	0	0	0	46.5	57.1	17.3	0	57.5	57.5	70	N	-	-	57.5	Y	N	N
A1-5a-13	21	102.8	A1-5a	-	0	0	0	46.7	56.9	17.6	0	57.3	57.3	70	N	-	-	57.3	Y	N	N
A1-5a-13	22	106.1	A1-5a	-	0	0	0	46.9	56.8	17.9	0	57.3	57.3	70	N	-	-	57.3	Y	N	N
A1-5a-13	23	109.4	A1-5a	-	0	0	0	47.2	56.7	18.1	0	57.2	57.2	70	N	-	-	57.2	Y	N	N
A1-5a-13	24	112.7	A1-5a	-	0	0	0	47.4	56.6	18.2	0	57.1	57.1	70	N	-	-	57.1	Y	N	N
A1-5a-13	25	116	A1-5a	-	0	0	0	47.7	56.4	18.3	0	57	57.0	70	N	-	-	57.0	Y	N	N
A1-5a-14	1	36.8	A1-5a	-	0	0	0	44.9	59.8	36.4	0	59.9	59.9	70	N	-	-	59.9	Y	N	N
A1-5a-14	2	40.1	A1-5a	-	0	0	0	45	59.7	37	0	59.8	59.8	70	N	-	-	59.8	Y	N	N
A1-5a-14	3	43.4	A1-5a	-	0	0	0	44.9	59.6	37.6	0	59.7	59.7	70	N	-	-	59.7	Y	N	N
A1-5a-14	4	46.7	A1-5a	-	0	0	0	45	59.4	38.2	0	59.6	59.6	70	N	-	-	59.6	Y	N	N
A1-5a-14	5	50	A1-5a	-	0	0	0	45	59.3	38.8	0	59.5	59.5	70	N	-	-	59.5	Y	N	N
A1-5a-14	6	53.3	A1-5a	-	0	0	0	45.1	59.1	39.5	0	59.3	59.3	70	N	-	-	59.3	Y	N	N
A1-5a-14	7	56.6	A1-5a	-	0	0	0	45.1	59	40.2	0	59.3	59.3	70	N	-	-	59.3	Y	N	N
A1-5a-14	8	59.9	A1-5a	-	0	0	0	45.2	58.9	40.8	0	59.1	59.1	70	N	-	-	59.1	Y	N	N
A1-5a-14	9	63.2	A1-5a	-	0	0	0	45.3	58.7	41.4	0	59	59.0	70	N	-	-	59.0	Y	N	N
A1-5a-14	10	66.5	A1-5a	-	0	0	0	45.3	58.6	42.1	0	58.9	58.9	70	N	-	-	58.9	Y	N	N
A1-5a-14	11	69.8	A1-5a	-	0	0	0	45.4	58.5	42.9	0	58.8	58.8	70	N	-	-	58.8	Y	N	N
A1-5a-14	12	73.1	A1-5a	-	0	0	0	45.5	58.3	43.5	0	58.6	58.6	70	N	-	-	58.6	Y	N	N
A1-5a-14	13	76.4	A1-5a	-	0	0	0	45.5	58.2	44.2	0	58.6	58.6	70	N	-	-	58.6	Y	N	N
A1-5a-14	14	79.7	A1-5a	-	0	0	0	45.6	58	44.8	0	58.4	58.4	70	N	-	-	58.4	Y	N	N
A1-5a-14	15	83	A1-5a	-	0	0	0	45.7	57.9	45.5	0	58.4	58.4	70	N	-	-	58.4	Y	N	N
A1-5a-14	16	86.3	A1-5a	-	0	0	0	45.8	57.7	46.2	0	58.3	58.3	70	N	-	-	58.3	Y	N	N
A1-5a-14	17	89.6	A1-5a	-	0	0	0	45.9	57.6	46.8	0	58.2	58.2	70	N	-	-	58.2	Y	N	N
A1-5a-14	18	92.9	A1-5a	-	0	0	0	46.1	57.5	47.5	0	58.2	58.2	70	N	-	-	58.2	Y	N	N
A1-5a-14	19	96.2	A1-5a	-	0	0	0	46.2	57.3	48.2	0	58.1	58.1	70	N	-	-	58.1	Y	N	N
A1-5a-14	20	99.5	A1-5a	-	0	0	0	46.3	57.2	48.8	0	58.1	58.1	70	N	-	-	58.1	Y	N	N
A1-5a-14	21	102.8	A1-5a	-	0	0	0	46.6	57	49.4	0	58	58.0	70	N	-	-	58.0	Y	N	N
A1-5a-14	22	106.1	A1-5a	-	0	0	0	46.8	56.9	50	0	58.1	58.1	70	N	-	-	58.1	Y	N	N
A1-5a-14	23	109.4	A1-5a	-	0	0	0	47.1	56.8	50.6	0	58.1	58.1	70	N	-	-	58.1	Y	N	N
A1-5a-14	24	112.7	A1-5a	-	0	0	0	47.5	56.7	51.1	0	58.2	58.2	70	N	-	-	58.2	Y	N	N
A1-5a-14	25	116	A1-5a	-	0	0	0	47.7	56.6	51.6	0	58.2	58.2	70	N	-	-	58.2	Y	N	N
A1-5a-15	1	36.8	A1-5a	-	0	0	23.9	34.3	60.3	41.3	0	60.4	60.4	70	N	-	-	60.4	Y	N	N
A1-5a-15	2	40.1	A1-5a	-	0	0	24.6	34.8	60.2	42	0	60.3	60.3	70	N	-	-	60.3	Y	N	N
A1-5a-15	3	43.4	A1-5a	-	0	0	25.3	35.3	60	42.6	0	60.1	60.1	70	N	-	-	60.1	Y	N	N
A1-5a-15	4	46.7	A1-5a	-	0	0	25.9	35.7	59.9	43.3	0	60	60.0	70	N	-	-	60.0	Y	N	N
A1-5a-15	5	50	A1-5a	-	0	0	26.6	36.2	59.7	43.9	0	59.9	59.9	70	N	-	-	59.9	Y	N	N
A1-5a-15	6	53.3	A1-5a	-	0	0	27.4	36.7	59.6	44.7	0	59.8	59.8	70	N	-	-	59.8	Y	N	N
A1-5a-15	7	56.6	A1-5a	-	0	0	28.1	37.2	59.4	45.4	0	59.6	59.6	70	N	-	-	59.6	Y	N	N
A1-5a-15	8	59.9	A1-5a	-	0	0	28.9	37.7	59.3	46.1	0	59.5	59.5	70	N	-	-	59.5	Y	N	N
A1-5a-15	9	63.2	A1-5a	-	0	0	29.8	38.2	59.1	46.9	0	59.4	59.4	70	N	-	-	59.4	Y	N	N
A1-5a-15	10	66.5	A1-5a	-	0	0	30.7	38.6	59	47.6	0	59.3	59.3	70	N	-	-	59.3	Y	N	N
A1-5a-15	11	69.8	A1-5a	-	0	0	31.5	39.1	58.8	48.3	0	59.2	59.2	70	N	-	-	59.2	Y	N	N
A1-5a-15	12	73.1	A1-5a	-	0	0	32.3	39.6	58.7	49.1	0	59.2	59.2	70	N	-	-	59.2	Y	N	N
A1-5a-15	13	76.4	A1-5a	-	0	0	33.2	40.1	58.5	49.8	0	59.1	59.1	70	N	-	-	59.1	Y	N	N
A1-5a-15	14	79.7	A1-5a	-	0	0	34.1	40.6	58.3	50.5	0	59.1	59.1	70	N	-	-	59.1	Y	N	N
A1-5a-15	15	83	A1-5a	-	0	0	35.2	41.1	58.2	51.4	0	59.1	59.1	70	N	-	-	59.1	Y	N	N
A1-5a-15	16	86.3	A1-5a	-	0	0	36.2	41.6	58	52.2	0	59.1	59.1	70	N	-	-	59.1	Y	N	N
A1-5a-15	17	89.6	A1-5a	-	0	0	37.5	42.1	57.9	53.3	0	59.3	59.3	70	N	-	-	59.3	Y	N	N
A1-5a-15	18	92.9	A1-5a	-	0	0	38.8	42.7	57.7	53.9	0	59.4	59.4	70	N	-	-	59.4	Y	N	N
A1-5a-15	19	96.2	A1-5a	-	0	0	40.8	43.4	57.6	54.5	0	59.5	59.5	70	N	-	-	59.5	Y	N	N
A1-5a-15	20	99.5	A1-5a	-	0	0	41.7	44.1	57.5	55.1	0	59.6	59.6	70	N	-	-	59.6	Y	N	N
A1-5a-15	21	102.8	A1-5a	-	0	0	43.4	45.1	57.3	55.5	0	59.8	59.8	70	N	-	-	59.8	Y	N	N
A1-5a-15	22	106.1	A1-5a	-	0	0	44.4	46.1	57.2	56	0	60	60.0	70	N	-	-	60.0	Y	N	N
A1-5a-15	23	109.4	A1-5a	-	0	0	45	47.1	57.1	56.4	0	60.2	60.2	70	N	-	-	60.2	Y	N	N
A1-5a-15	24	112.7	A1-5a	-	0	0	45.2	48.2	56.9	57	0	60.4	60.4	70	N	-	-	60.4	Y	N	N
A1-5a-15	25	116	A1-5a	-	0	0	45.4	48.9	56.8	57.4	0	60.6	60.6	70	N	-	-	60.6	Y	N	N
A1-5a-16	1	36.8	A1-5a	-	17.7	0	25.7	33.5	60.4	41.9	0	60.4	60.4	70	N	-	-	42.7	Y	N	N
A1-5a-16	2	40.1	A1-5a	-	18.2	0	26.4	34	60.3	42.5	0	60.3	60.3	70	N	-	-	42.1	Y	N	N
A1-5a-16	3	43.4	A1-5a	-	18.7	0	27	34.4	60.1	43.2	0	60.2	60.2	70	N	-	-	41.5	Y	N	N
A1-5a-16	4	46.7	A1-5a	-	19.3	0	27.8	34.9	60	43.9	0	60.1	60.1	70	N	-	-	40.8	Y	N	N
A1-5a-16	5	50	A1-5a	-	19.9	0	28.5	35.4	59.8	44.5	0	60	60.0	70	N	-	-	40.1	Y	N	N
A1-5a-16	6	53.3	A1-5a	-	20.7	0	29.2	36	59.6	45.2	0	59.8	59.8	70	N	-	-	39.1	Y	N	N
A1-5a-16	7	56.6	A1-5a	-	21.5	0	30.1	36.5	59.5	45.9	0	59.7	59.7	70	N	-	-	38.2	Y	N	N
A1-5a-16	8	59.9	A1-5a	-	22.2	0	30.9	37	59.3	46.6	0	59.6	59.6	70	N	-	-	37.4	Y	N	N
A1-5a-16	9	63.2	A1-5a	-	23	0	31.9	37.5	59.2	47.4	0	59.5	59.5	70	N	-	-	36.5	Y	N	N
A1-5a-16	10	66.5	A1-5a	-	23.6	0	32.8	38	59	48	0	59.3	59.3	70	N	-	-	35.7	Y	N	N
A1-5a-16	11	69.8	A1-5a	-	24.4	0	33.8	38.5	58.9	48.8	0	59.3	59.3	70	N	-	-	34.9	Y	N	N
A1-5a-16	12	73.1	A1-5a	-	25	0	34.9	39	58.7	49.6	0	59.2	59.2	70	N	-	-	34.2	Y	N	N
A1-5a-16	13	76.4	A1-5a	-	25.5	0	36	39.6	58.5	50.4	0	59.2	59.2	70	N	-	-	33.7	Y	N	N
A1-5a-16	14	79.7	A1-5a	-	25.8	0	37.3	40.1	58.4	51.2	0	59.2	59.2	70	N	-	-	33.4	Y	N	N
A1-5a-16	15	83	A1-5a	-	26.1	0	39	40.7	58.2	52	0	59.3	59.3	70	N	-	-	33.2	Y	N	N
A1-5a-16	16	86.3	A1-5a	-	26.5	0	40.3	41.2	58.1	53	0	59.4	59.4	70	N	-	-	32.9	Y	N	N
A1-5a-16	17	89.6	A1-5a	-	26.8	0	41.7	41.9	57.9	53.8	0	59.5	59.5	70	N	-	-	32.7	Y	N	N
A1-5a-16	18	92.9	A1-5a	-	27.2	0	42.6	42.6	57.8	54.4	0	59.6	59.6	70	N	-	-	32.4	Y	N	N
A1-5a-16	19	96.2	A1-5a	-	27.7	0	43.6	43.4	57.6	54.9	0	59.7	59.7	70	N	-	-	32.0	Y	N	N
A1-5a-16	20	99.5	A1-5a	-	28.2	0	44.3	44.3	57.5	55.5	0	59.9	59.9	70	N	-	-	31.7	Y	N	N
A1-5a-16	21	102.8	A1-5a	-	28.7	0	45.3	45.8	57.3	55.9	0	60	60.0	70	N	-	-	31.3	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	New Roads[2]					New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
A1-5a-16	22	106.1	A1-5a	-	29.6	0	46	46.6	57.2	56.4	0	60.2	60.2	70	N	-	-	30.6	Y	N	N
A1-5a-16	23	109.4	A1-5a	-	29.8	0	46.5	47.9	57.1	56.9	0	60.5	60.5	70	N	-	-	30.7	Y	N	N
A1-5a-16	24	112.7	A1-5a	-	29.9	0	46.7	48.7	57	57.4	0	60.7	60.7	70	N	-	-	30.8	Y	N	N
A1-5a-16	25	116	A1-5a	-	30.3	0	46.9	49.3	56.8	57.8	0	60.8	60.8	70	N	-	-	30.5	Y	N	N
A1-5a-17	1	36.8	A1-5a	-	21.7	0	27.4	40.3	61.8	42.6	0	61.9	61.9	70	N	-	-	40.2	Y	N	N
A1-5a-17	2	40.1	A1-5a	-	22.4	0	27.9	40.6	61.6	43.2	0	61.7	61.7	70	N	-	-	39.3	Y	N	N
A1-5a-17	3	43.4	A1-5a	-	23	0	28.4	40.8	61.4	43.9	0	61.5	61.5	70	N	-	-	38.5	Y	N	N
A1-5a-17	4	46.7	A1-5a	-	23.8	0	29	41	61.2	44.5	0	61.3	61.3	70	N	-	-	37.5	Y	N	N
A1-5a-17	5	50	A1-5a	-	24.5	0	29.7	41.1	61	45.1	0	61.1	61.1	70	N	-	-	36.6	Y	N	N
A1-5a-17	6	53.3	A1-5a	-	25.5	0	30.3	41.2	60.8	45.9	0	61	61.0	70	N	-	-	35.5	Y	N	N
A1-5a-17	7	56.6	A1-5a	-	26.3	0	31.1	41.3	60.6	46.5	0	60.8	60.8	70	N	-	-	34.5	Y	N	N
A1-5a-17	8	59.9	A1-5a	-	27.3	0	31.9	41.4	60.4	47.3	0	60.6	60.6	70	N	-	-	33.3	Y	N	N
A1-5a-17	9	63.2	A1-5a	-	28.1	0	32.8	41.4	60.1	48	0	60.4	60.4	70	N	-	-	32.3	Y	N	N
A1-5a-17	10	66.5	A1-5a	-	29.1	0	33.7	41.5	59.9	48.7	0	60.3	60.3	70	N	-	-	31.2	Y	N	N
A1-5a-17	11	69.8	A1-5a	-	29.8	0	34.6	41.7	59.7	49.5	0	60.2	60.2	70	N	-	-	30.4	Y	N	N
A1-5a-17	12	73.1	A1-5a	-	30.5	0	35.7	41.8	59.5	50.3	0	60.1	60.1	70	N	-	-	29.6	Y	N	N
A1-5a-17	13	76.4	A1-5a	-	31.1	0	36.8	42	59.3	51	0	60	60.0	70	N	-	-	28.9	Y	N	N
A1-5a-17	14	79.7	A1-5a	-	31.5	0	38.1	42.1	59.2	51.8	0	60	60.0	70	N	-	-	28.5	Y	N	N
A1-5a-17	15	83	A1-5a	-	31.8	0	40	42.4	59	52.7	0	60	60.0	70	N	-	-	28.2	Y	N	N
A1-5a-17	16	86.3	A1-5a	-	32.2	0	41.2	42.7	58.8	53.8	0	60.2	60.2	70	N	-	-	28.0	Y	N	N
A1-5a-17	17	89.6	A1-5a	-	32.7	0	42.7	43	58.7	54.4	0	60.2	60.2	70	N	-	-	27.5	Y	N	N
A1-5a-17	18	92.9	A1-5a	-	33.1	0	43.6	43.4	58.5	55.1	0	60.3	60.3	70	N	-	-	27.2	Y	N	N
A1-5a-17	19	96.2	A1-5a	-	33.7	0	44.6	44	58.4	55.7	0	60.4	60.5	70	N	-	-	26.8	Y	N	N
A1-5a-17	20	99.5	A1-5a	-	34.3	0	45.2	44.7	58.2	56.2	0	60.5	60.6	70	N	-	-	26.3	Y	N	N
A1-5a-17	21	102.8	A1-5a	-	35.2	0	46.1	45.6	58.1	56.7	0	60.7	60.8	70	N	-	-	25.6	Y	N	N
A1-5a-17	22	106.1	A1-5a	-	35.2	0	46.7	46.6	57.9	57.3	0	60.9	60.9	70	N	-	-	25.7	Y	N	N
A1-5a-17	23	109.4	A1-5a	-	35.5	0	47.2	47.7	57.8	57.8	0	61.2	61.2	70	N	-	-	25.7	Y	N	N
A1-5a-17	24	112.7	A1-5a	-	35.8	0	47.3	48.4	57.6	58.2	0	61.3	61.4	70	N	-	-	25.6	Y	N	N
A1-5a-17	25	116	A1-5a	-	36.4	0	47.5	48.9	57.5	58.6	0	61.5	61.5	70	N	-	-	25.1	Y	N	N
A1-5a-18	1	36.8	A1-5a	-	22	0	27.7	49.1	62.9	42.8	0	63.1	63.1	70	N	-	-	41.1	Y	N	N
A1-5a-18	2	40.1	A1-5a	-	22.6	0	28.2	49	62.7	43.4	0	62.9	62.9	70	N	-	-	40.3	Y	N	N
A1-5a-18	3	43.4	A1-5a	-	23.3	0	28.8	48.8	62.5	44	0	62.7	62.7	70	N	-	-	39.4	Y	N	N
A1-5a-18	4	46.7	A1-5a	-	24.1	0	29.3	48.6	62.2	44.7	0	62.5	62.5	70	N	-	-	38.4	Y	N	N
A1-5a-18	5	50	A1-5a	-	24.9	0	30	48.5	62	45.4	0	62.2	62.2	70	N	-	-	37.3	Y	N	N
A1-5a-18	6	53.3	A1-5a	-	25.8	0	30.7	48.3	61.7	46.1	0	62	62.0	70	N	-	-	36.2	Y	N	N
A1-5a-18	7	56.6	A1-5a	-	26.8	0	31.4	48.1	61.5	46.8	0	61.8	61.8	70	N	-	-	35.0	Y	N	N
A1-5a-18	8	59.9	A1-5a	-	27.9	0	32.2	47.9	61.2	47.5	0	61.6	61.6	70	N	-	-	33.7	Y	N	N
A1-5a-18	9	63.2	A1-5a	-	28.7	0	33.1	47.8	61	48.2	0	61.5	61.5	70	N	-	-	32.8	Y	N	N
A1-5a-18	10	66.5	A1-5a	-	29.7	0	34	47.7	60.8	49	0	61.3	61.3	70	N	-	-	31.6	Y	N	N
A1-5a-18	11	69.8	A1-5a	-	30.2	0	35	47.6	60.6	49.7	0	61.1	61.2	70	N	-	-	31.0	Y	N	N
A1-5a-18	12	73.1	A1-5a	-	31	0	36.1	47.5	60.4	50.5	0	61	61.0	70	N	-	-	30.0	Y	N	N
A1-5a-18	13	76.4	A1-5a	-	31.5	0	37.2	47.4	60.2	51.3	0	60.9	60.9	70	N	-	-	29.4	Y	N	N
A1-5a-18	14	79.7	A1-5a	-	31.9	0	38.5	47.3	60	52.2	0	60.9	60.9	70	N	-	-	29.0	Y	N	N
A1-5a-18	15	83	A1-5a	-	32.3	0	40.2	47.3	59.8	53.1	0	60.9	60.9	70	N	-	-	28.6	Y	N	N
A1-5a-18	16	86.3	A1-5a	-	32.7	0	41.8	47.3	59.6	54.1	0	60.9	60.9	70	N	-	-	28.2	Y	N	N
A1-5a-18	17	89.6	A1-5a	-	33.1	0	43.1	47.3	59.5	54.8	0	61	61.0	70	N	-	-	27.9	Y	N	N
A1-5a-18	18	92.9	A1-5a	-	33.7	0	44	47.4	59.3	55.3	0	61	61.1	70	N	-	-	27.4	Y	N	N
A1-5a-18	19	96.2	A1-5a	-	34.2	0	45.1	47.6	59.1	56	0	61.1	61.1	70	N	-	-	26.9	Y	N	N
A1-5a-18	20	99.5	A1-5a	-	35.1	0	45.7	47.9	59	56.6	0	61.3	61.3	70	N	-	-	26.2	Y	N	N
A1-5a-18	21	102.8	A1-5a	-	35.7	0	46.5	48.4	58.8	57.1	0	61.4	61.4	70	N	-	-	25.7	Y	N	N
A1-5a-18	22	106.1	A1-5a	-	35.5	0	47	49	58.7	57.6	0	61.6	61.6	70	N	-	-	26.1	Y	N	N
A1-5a-18	23	109.4	A1-5a	-	36	0	47.4	49.7	58.5	58.1	0	61.8	61.8	70	N	-	-	25.8	Y	N	N
A1-5a-18	24	112.7	A1-5a	-	36.5	0	47.5	50.1	58.4	58.5	0	61.9	62.0	70	N	-	-	25.5	Y	N	N
A1-5a-18	25	116	A1-5a	-	37.1	0	47.7	50.4	58.3	58.9	0	62.1	62.1	70	N	-	-	25.0	Y	N	N
A1-5a-19	1	36.8	A1-5a	-	22.1	0	27.7	50.1	64.6	42.8	0	64.8	64.8	70	N	-	-	42.7	Y	N	N
A1-5a-19	2	40.1	A1-5a	-	22.8	0	28.3	49.9	64.4	43.4	0	64.6	64.6	70	N	-	-	41.8	Y	N	N
A1-5a-19	3	43.4	A1-5a	-	23.5	0	28.8	49.7	64.1	44	0	64.3	64.3	70	N	-	-	40.8	Y	N	N
A1-5a-19	4	46.7	A1-5a	-	24.3	0	29.4	49.6	63.8	44.7	0	64.1	64.1	70	N	-	-	39.8	Y	N	N
A1-5a-19	5	50	A1-5a	-	25.1	0	30.1	49.4	63.6	45.4	0	63.8	63.8	70	N	-	-	38.7	Y	N	N
A1-5a-19	6	53.3	A1-5a	-	26	0	30.7	49.2	63.3	46.1	0	63.6	63.6	70	N	-	-	37.6	Y	N	N
A1-5a-19	7	56.6	A1-5a	-	27.1	0	31.5	49.1	63.1	46.9	0	63.4	63.4	70	N	-	-	36.3	Y	N	N
A1-5a-19	8	59.9	A1-5a	-	28.2	0	32.3	48.9	62.8	47.6	0	63.1	63.1	70	N	-	-	34.9	Y	N	N
A1-5a-19	9	63.2	A1-5a	-	28.9	0	33.2	48.8	62.6	48.4	0	63	63.0	70	N	-	-	34.1	Y	N	N
A1-5a-19	10	66.5	A1-5a	-	29.8	0	34.2	48.7	62.3	49.1	0	62.7	62.7	70	N	-	-	32.9	Y	N	N
A1-5a-19	11	69.8	A1-5a	-	30.6	0	35.1	48.7	62.1	49.9	0	62.6	62.6	70	N	-	-	32.0	Y	N	N
A1-5a-19	12	73.1	A1-5a	-	31.4	0	36.2	48.5	61.9	50.7	0	62.4	62.4	70	N	-	-	31.0	Y	N	N
A1-5a-19	13	76.4	A1-5a	-	31.8	0	37.5	48.5	61.7	51.4	0	62.3	62.3	70	N	-	-	30.5	Y	N	N
A1-5a-19	14	79.7	A1-5a	-	32.1	0	38.9	48.5	61.5	52.4	0	62.2	62.2	70	N	-	-	30.1	Y	N	N
A1-5a-19	15	83	A1-5a	-	32.6	0	40.3	48.5	61.4	53.3	0	62.2	62.2	70	N	-	-	29.6	Y	N	N
A1-5a-19	16	86.3	A1-5a	-	33	0	42.1	48.6	61.2	54.2	0	62.2	62.2	70	N	-	-	29.2	Y	N	N
A1-5a-19	17	89.6	A1-5a	-	33.5	0	43.4	48.6	61	55	0	62.2	62.2	70	N	-	-	28.7	Y	N	N
A1-5a-19	18	92.9	A1-5a	-	34	0	44.3	48.8	60.8	55.7	0	62.2	62.2	70	N	-	-	28.2	Y	N	N
A1-5a-19	19	96.2	A1-5a	-	34.5	0	45.2	49.1	60.7	56.1	0	62.3	62.3	70	N	-	-	27.8	Y	N	N
A1-5a-19	20	99.5	A1-5a	-	35.4	0	45.9	49.6	60.5	56.7	0	62.3	62.4	70	N	-	-	27.0	Y	N	N
A1-5a-19	21	102.8	A1-5a	-	35.8	0	46.7	49.9	60.3	57.3	0	62.4	62.5	70	N	-	-	26.7	Y	N	N
A1-5a-19	22	106.1	A1-5a	-	35.9	0	47.2	50.6	60.2	57.8	0	62.6	62.6	70	N	-	-	26.7	Y	N	N
A1-5a-19	23	109.4	A1-5a	-	36.2	0	47.5	51.2	60	58.3	0	62.7	62.7	70	N	-	-	26.5	Y	N	N
A1-5a-19	24	112.7	A1-5a	-	36.8	0	47.6	51.6	59.9	58.7	0	62.8	62.8	70	N	-	-	26.0	Y	N	N
A1-5a-19	25	116	A1-5a	-	37.3	0	47.7	51.9	59.8	59	0	62.9	62.9	70	N	-	-	25.6	Y	N	N
A1-5a-20	1	36.8	A1-5a	-	22.4	0	41.1	52.3	66.5	43.1	0	66.7	66.7	70	N	-	-	44.3	Y	N	N
A1-5a-20	2	40.1	A1-5a	-	23.1	0	41.3	52.1	66.2	43.7	0	66.4	66.4	70	N	-	-	43.3	Y	N	N
A1-5a-20	3	43.4	A1-5a	-	23.8	0	41.4	52	65.9	44.3	0	66.1	66.1	70	N	-	-	42.3	Y	N	N
A1-5a-20	4	46.7	A1-5a	-	24.6	0	41.5	51.8	65.6	45	0	65.8	65.8	70	N	-	-	41.2	Y	N	N
A1-5a-20	5	50	A1-5a	-	25.6	0	41.6	51.6	65.3	45.6	0	65.6	65.6	70	N	-	-	40.0	Y	N	N
A1-5a-20	6	53.3	A1-5a	-	26.5	0	41.7	51.5	65	46.3	0	65.3	65.3	70	N	-	-	38.8	Y	N	N
A1-5a-20	7	56.6	A1-5a	-	27.6	0	41.8	51.3	64.8	47.1	0	65.1	65.1	70	N	-	-	37.5	Y	N	N
A1-5a-20	8	59.9	A1-5a	-	28.7	0	41.9	51.2	64.5	47.8	0	64.8	64.8	70	N	-	-	36.1	Y	N	N
A1-5a-20	9	63.2	A1-5a	-	29.7	0	42.1	51.1	64.3	48.6	0	64.6	64.6	70	N	-	-	34.9	Y	N	N
A1-5a-20	10	66.5	A1-5a	-	30.5	0	42.3	51	64	49.3	0	64.4	64.4	70	N	-	-	33.9	Y	N	N
A1-5a-20	11	69.8	A1-5a	-	31.3	0	42.4	51	63.8	50.1	0	64.2	64.2	70	N	-	-	32.9	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)									C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
A1-5a-20	12	73.1	A1-5a	-	32	0	42.7	50.9	63.6	50.9	0	64.1	64.1	70	N	-	-	32.1	Y	N	N
A1-5a-20	13	76.4	A1-5a	-	32.5	0	43	50.9	63.4	51.8	0	63.9	63.9	70	N	-	-	31.4	Y	N	N
A1-5a-20	14	79.7	A1-5a	-	32.9	0	43.5	50.8	63.1	52.6	0	63.8	63.8	70	N	-	-	30.9	Y	N	N
A1-5a-20	15	83	A1-5a	-	33.4	0	44.1	50.8	62.9	53.5	0	63.7	63.7	70	N	-	-	30.3	Y	N	N
A1-5a-20	16	86.3	A1-5a	-	33.7	0	45	50.8	62.7	54.4	0	63.6	63.6	70	N	-	-	29.9	Y	N	N
A1-5a-20	17	89.6	A1-5a	-	34.2	0	45.7	50.8	62.6	55.1	0	63.6	63.6	70	N	-	-	29.4	Y	N	N
A1-5a-20	18	92.9	A1-5a	-	34.7	0	46.3	51	62.4	55.8	0	63.6	63.6	70	N	-	-	28.9	Y	N	N
A1-5a-20	19	96.2	A1-5a	-	35.4	0	46.8	51.1	62.2	56.3	0	63.6	63.6	70	N	-	-	28.2	Y	N	N
A1-5a-20	20	99.5	A1-5a	-	36.4	0	47.4	51.4	62.1	57	0	63.6	63.6	70	N	-	-	27.2	Y	N	N
A1-5a-20	21	102.8	A1-5a	-	36.4	0	48	51.7	61.9	57.5	0	63.7	63.7	70	N	-	-	27.3	Y	N	N
A1-5a-20	22	106.1	A1-5a	-	36.7	0	48.4	52.2	61.8	58	0	63.7	63.8	70	N	-	-	27.1	Y	N	N
A1-5a-20	23	109.4	A1-5a	-	37	0	48.5	52.6	61.6	58.4	0	63.8	63.8	70	N	-	-	26.8	Y	N	N
A1-5a-20	24	112.7	A1-5a	-	37.5	0	48.7	52.8	61.5	58.9	0	63.9	63.9	70	N	-	-	26.4	Y	N	N
A1-5a-20	25	116	A1-5a	-	38	0	48.7	53	61.3	59.3	0	63.9	64.0	70	N	-	-	26.0	Y	N	N
A1-5a-21	1	36.8	A1-5a	-	23	0	45.3	51.6	65.4	43	0	65.6	65.6	70	N	-	-	42.6	Y	N	N
A1-5a-21	2	40.1	A1-5a	-	23.8	0	45.4	51.3	65	43.6	0	65.3	65.3	70	N	-	-	41.5	Y	N	N
A1-5a-21	3	43.4	A1-5a	-	24.6	0	45.5	51.1	64.7	44.2	0	65	65.0	70	N	-	-	40.4	Y	N	N
A1-5a-21	4	46.7	A1-5a	-	25.5	0	45.5	50.8	64.4	44.9	0	64.6	64.6	70	N	-	-	39.1	Y	N	N
A1-5a-21	5	50	A1-5a	-	26.4	0	45.6	50.5	64	45.6	0	64.3	64.3	70	N	-	-	37.9	Y	N	N
A1-5a-21	6	53.3	A1-5a	-	27.5	0	45.6	50.3	63.7	46.3	0	64	64.0	70	N	-	-	36.5	Y	N	N
A1-5a-21	7	56.6	A1-5a	-	28.3	0	45.5	50.1	63.4	47.1	0	63.8	63.8	70	N	-	-	35.5	Y	N	N
A1-5a-21	8	59.9	A1-5a	-	29.6	0	45.6	49.9	63.2	47.9	0	63.6	63.6	70	N	-	-	34.0	Y	N	N
A1-5a-21	9	63.2	A1-5a	-	30.6	0	45.8	49.8	62.9	48.7	0	63.3	63.3	70	N	-	-	32.7	Y	N	N
A1-5a-21	10	66.5	A1-5a	-	31.6	0	45.8	49.6	62.6	49.5	0	63.1	63.1	70	N	-	-	31.5	Y	N	N
A1-5a-21	11	69.8	A1-5a	-	32.4	0	45.9	49.5	62.4	50.3	0	62.9	62.9	70	N	-	-	30.5	Y	N	N
A1-5a-21	12	73.1	A1-5a	-	33.2	0	46	49.4	62.2	51	0	62.8	62.8	70	N	-	-	29.6	Y	N	N
A1-5a-21	13	76.4	A1-5a	-	33.7	0	46.2	49.3	61.9	51.9	0	62.6	62.6	70	N	-	-	28.9	Y	N	N
A1-5a-21	14	79.7	A1-5a	-	34.1	0	46.4	49.3	61.7	52.7	0	62.5	62.6	70	N	-	-	28.5	Y	N	N
A1-5a-21	15	83	A1-5a	-	34.6	0	46.8	49.3	61.5	53.7	0	62.5	62.5	70	N	-	-	27.9	Y	N	N
A1-5a-21	16	86.3	A1-5a	-	35.1	0	47.2	49.3	61.3	54.6	0	62.5	62.5	70	N	-	-	27.4	Y	N	N
A1-5a-21	17	89.6	A1-5a	-	35.6	0	47.7	49.4	61.1	55.3	0	62.5	62.5	70	N	-	-	26.9	Y	N	N
A1-5a-21	18	92.9	A1-5a	-	36.2	0	48.1	49.5	60.9	56	0	62.5	62.5	70	N	-	-	26.3	Y	N	N
A1-5a-21	19	96.2	A1-5a	-	36.9	0	48.5	49.8	60.8	56.6	0	62.6	62.6	70	N	-	-	25.7	Y	N	N
A1-5a-21	20	99.5	A1-5a	-	37.6	0	48.8	50.2	60.6	57.2	0	62.7	62.7	70	N	-	-	25.1	Y	N	N
A1-5a-21	21	102.8	A1-5a	-	37.5	0	49.2	50.6	60.5	57.7	0	62.8	62.8	70	N	-	-	25.3	Y	N	N
A1-5a-21	22	106.1	A1-5a	-	37.9	0	49.5	51.2	60.3	58.3	0	63	63.0	70	N	-	-	25.1	Y	N	N
A1-5a-21	23	109.4	A1-5a	-	38.4	0	49.6	51.7	60.1	58.7	0	63	63.1	70	N	-	-	24.7	Y	N	N
A1-5a-21	24	112.7	A1-5a	-	39	0	49.8	52.1	60	59.2	0	63.2	63.2	70	N	-	-	24.2	Y	N	N
A1-5a-21	25	116	A1-5a	-	39.5	0	49.8	52.4	59.9	59.5	0	63.3	63.3	70	N	-	-	23.8	Y	N	N
A1-5a-22	1	36.8	A1-5a	-	23.3	0	45.3	51.2	68	43.9	0	68.1	68.1	70	N	-	-	44.8	Y	N	N
A1-5a-22	2	40.1	A1-5a	-	24.1	0	45.4	51	67.6	44.5	0	67.8	67.8	70	N	-	-	43.7	Y	N	N
A1-5a-22	3	43.4	A1-5a	-	24.9	0	45.4	50.8	67.2	45	0	67.4	67.4	70	N	-	-	42.5	Y	N	N
A1-5a-22	4	46.7	A1-5a	-	25.8	0	45.4	50.6	66.9	45.6	0	67	67.0	70	N	-	-	41.2	Y	N	N
A1-5a-22	5	50	A1-5a	-	26.7	0	45.5	50.5	66.5	46.2	0	66.7	66.7	70	N	-	-	40.0	Y	N	N
A1-5a-22	6	53.3	A1-5a	-	27.8	0	45.6	50.4	66.2	46.9	0	66.4	66.4	70	N	-	-	38.6	Y	N	N
A1-5a-22	7	56.6	A1-5a	-	28.9	0	45.6	50.3	65.9	47.6	0	66.1	66.1	70	N	-	-	37.2	Y	N	N
A1-5a-22	8	59.9	A1-5a	-	30.1	0	45.7	50.2	65.6	48.4	0	65.8	65.8	70	N	-	-	35.7	Y	N	N
A1-5a-22	9	63.2	A1-5a	-	31.2	0	45.8	50.1	65.3	49.1	0	65.6	65.6	70	N	-	-	34.4	Y	N	N
A1-5a-22	10	66.5	A1-5a	-	32.1	0	45.8	50	65	49.8	0	65.4	65.4	70	N	-	-	33.3	Y	N	N
A1-5a-22	11	69.8	A1-5a	-	32.9	0	45.9	50	64.8	50.6	0	65.1	65.1	70	N	-	-	32.2	Y	N	N
A1-5a-22	12	73.1	A1-5a	-	33.7	0	46	50	64.5	51.4	0	65	65.0	70	N	-	-	31.3	Y	N	N
A1-5a-22	13	76.4	A1-5a	-	34.2	0	46.1	50	64.3	52.3	0	64.8	64.8	70	N	-	-	30.6	Y	N	N
A1-5a-22	14	79.7	A1-5a	-	34.8	0	46.4	50	64.1	53.1	0	64.7	64.7	70	N	-	-	29.9	Y	N	N
A1-5a-22	15	83	A1-5a	-	35.2	0	46.8	50	63.9	54	0	64.6	64.6	70	N	-	-	29.4	Y	N	N
A1-5a-22	16	86.3	A1-5a	-	35.6	0	47.3	50.1	63.7	54.8	0	64.5	64.5	70	N	-	-	28.9	Y	N	N
A1-5a-22	17	89.6	A1-5a	-	36.2	0	47.7	50.2	63.5	55.5	0	64.4	64.4	70	N	-	-	28.2	Y	N	N
A1-5a-22	18	92.9	A1-5a	-	36.8	0	48.2	50.4	63.3	56.2	0	64.4	64.4	70	N	-	-	27.6	Y	N	N
A1-5a-22	19	96.2	A1-5a	-	37.6	0	48.5	50.7	63.1	56.9	0	64.4	64.4	70	N	-	-	26.8	Y	N	N
A1-5a-22	20	99.5	A1-5a	-	38	0	48.9	51.1	63	57.5	0	64.4	64.4	70	N	-	-	26.4	Y	N	N
A1-5a-22	21	102.8	A1-5a	-	37.9	0	49.3	51.4	62.8	58	0	64.4	64.4	70	N	-	-	26.5	Y	N	N
A1-5a-22	22	106.1	A1-5a	-	38.4	0	49.5	52	62.6	58.5	0	64.5	64.5	70	N	-	-	26.1	Y	N	N
A1-5a-22	23	109.4	A1-5a	-	39	0	49.7	52.4	62.5	58.9	0	64.5	64.5	70	N	-	-	25.5	Y	N	N
A1-5a-22	24	112.7	A1-5a	-	39.7	0	49.9	52.7	62.3	59.4	0	64.6	64.6	70	N	-	-	24.9	Y	N	N
A1-5a-22	25	116	A1-5a	-	40.1	0	49.9	53	62.2	59.7	0	64.6	64.6	70	N	-	-	24.5	Y	N	N
A1-5a-23	1	36.8	A1-5a	-	23.7	0	45.3	51.1	69.2	44.6	0	69.3	69.3	70	N	-	-	45.6	Y	N	N
A1-5a-23	2	40.1	A1-5a	-	24.5	0	45.4	50.9	68.8	45.1	0	68.9	68.9	70	N	-	-	44.4	Y	N	N
A1-5a-23	3	43.4	A1-5a	-	25.4	0	45.4	50.7	68.4	45.6	0	68.5	68.5	70	N	-	-	43.1	Y	N	N
A1-5a-23	4	46.7	A1-5a	-	26.4	0	45.4	50.6	67.9	46.1	0	68.1	68.1	70	N	-	-	41.7	Y	N	N
A1-5a-23	5	50	A1-5a	-	27.3	0	45.5	50.4	67.6	46.8	0	67.7	67.7	70	N	-	-	40.4	Y	N	N
A1-5a-23	6	53.3	A1-5a	-	28.4	0	45.5	50.3	67.2	47.4	0	67.4	67.4	70	N	-	-	39.0	Y	N	N
A1-5a-23	7	56.6	A1-5a	-	29.7	0	45.6	50.2	66.9	48.1	0	67	67.0	70	N	-	-	37.3	Y	N	N
A1-5a-23	8	59.9	A1-5a	-	30.7	0	45.6	50.1	66.6	48.8	0	66.8	66.8	70	N	-	-	36.1	Y	N	N
A1-5a-23	9	63.2	A1-5a	-	31.9	0	45.7	50.1	66.3	49.6	0	66.5	66.5	70	N	-	-	34.6	Y	N	N
A1-5a-23	10	66.5	A1-5a	-	32.9	0	45.7	50	66	50.4	0	66.3	66.3	70	N	-	-	33.4	Y	N	N
A1-5a-23	11	69.8	A1-5a	-	34	0	45.9	50	65.7	51.1	0	66	66.0	70	N	-	-	32.0	Y	N	N
A1-5a-23	12	73.1	A1-5a	-	35	0	46	50	65.5	51.9	0	65.8	65.8	70	N	-	-	30.8	Y	N	N
A1-5a-23	13	76.4	A1-5a	-	35.7	0	46.2	49.9	65.2	52.7	0	65.6	65.6	70	N	-	-	29.9	Y	N	N
A1-5a-23	14	79.7	A1-5a	-	36.2	0	46.4	50	65	53.5	0	65.5	65.5	70	N	-	-	29.3	Y	N	N
A1-5a-23	15	83	A1-5a	-	36.6	0	46.9	50.1	64.8	54.4	0	65.4	65.4	70	N	-	-	28.8	Y	N	N
A1-5a-23	16	86.3	A1-5a	-	37.1	0	47.3	50.2	64.6	55.3	0	65.3	65.3	70	N	-	-	28.2	Y	N	N
A1-5a-23	17	89.6	A1-5a	-	37.6	0	47.8	50.3	64.4	56.1	0	65.2	65.2	70	N	-	-	27.6	Y	N	N
A1-5a-23	18	92.9	A1-5a	-	38.3	0	48.2	50.5	64.2	56.7	0	65.2	65.2	70	N	-	-	26.9	Y	N	N
A1-5a-23	19	96.2	A1-5a	-	39.1	0	48.6	50.8	64.1	57.3	0	65.1	65.2	70	N	-	-	26.1	Y	N	N
A1-5a-23	20	99.5	A1-5a	-	39.2	0	49	51.2	63.9	57.9	0	65.1	65.1	70	N	-	-	25.9	Y	N	N
A1-5a-23	21	102.8	A1-5a	-	39.5	0	49.4	51.6	63.7	58.5	0	65.2	65.2	70	N	-	-	25.7	Y	N	N
A1-5a-23	22	106.1	A1-5a	-	39.9	0	49.6	52.1	63.5	59.1	0	65.2	65.2	70	N	-	-	25.3	Y	N	N
A1-5a-23	23	109.4	A1-5a	-	40.4	0	49.8	52.6	63.4	59.6	0	65.3	65.3	70	N	-	-	24.9	Y	N	N
A1-5a-23	24	112.7	A1-5a	-	40.9	0	49.9	52.9	63.2	59.9	0	65.3	65.3	70	N	-	-	24.4	Y	N	N
A1-5a-23	25	116	A1-5a	-	41.4	0	50	53.2	63.1	60.4	0	65.4	65.4	70	N	-	-	24.0	Y	N	N
A1-5a-24	1	36.8	A1-5a	-	23.8	0	27.7	49.3	68.6	44.5	0	68.7	68.7	70	N	-	-	44.9	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance: C - A dB(A) [D]	Check Project Impact Significance: D ≥ 1dB(A)	Check Direct Mitigation: New Road Contribution dB(A) [E]	Check Direct Mitigation: New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	Check Direct Mitigation: New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)												
A1-5a-24	2	40.1	A1-5a	-	24.6	0	28.3	49.3	68.1	45	0	68.2	68.2	70	N	-	-	43.6	Y	N	N
A1-5a-24	3	43.4	A1-5a	-	25.5	0	28.9	49.3	67.7	45.5	0	67.8	67.8	70	N	-	-	42.3	Y	N	N
A1-5a-24	4	46.7	A1-5a	-	26.4	0	29.5	49.2	67.3	46.1	0	67.4	67.4	70	N	-	-	41.0	Y	N	N
A1-5a-24	5	50	A1-5a	-	27.4	0	30.2	49.3	66.9	46.7	0	67.1	67.1	70	N	-	-	39.7	Y	N	N
A1-5a-24	6	53.3	A1-5a	-	28.5	0	30.9	49.3	66.6	47.3	0	66.7	66.7	70	N	-	-	38.2	Y	N	N
A1-5a-24	7	56.6	A1-5a	-	29.6	0	31.7	49.4	66.3	48	0	66.4	66.4	70	N	-	-	36.8	Y	N	N
A1-5a-24	8	59.9	A1-5a	-	30.8	0	32.6	49.4	66	48.8	0	66.2	66.2	70	N	-	-	35.4	Y	N	N
A1-5a-24	9	63.2	A1-5a	-	32	0	33.4	49.5	65.7	49.5	0	65.9	65.9	70	N	-	-	33.9	Y	N	N
A1-5a-24	10	66.5	A1-5a	-	33	0	34.5	49.5	65.4	50.3	0	65.6	65.6	70	N	-	-	32.6	Y	N	N
A1-5a-24	11	69.8	A1-5a	-	34.2	0	35.5	49.6	65.1	51	0	65.4	65.4	70	N	-	-	31.2	Y	N	N
A1-5a-24	12	73.1	A1-5a	-	35.1	0	36.6	49.6	64.9	51.8	0	65.3	65.3	70	N	-	-	30.2	Y	N	N
A1-5a-24	13	76.4	A1-5a	-	35.9	0	37.9	49.7	64.6	52.6	0	65	65.0	70	N	-	-	29.1	Y	N	N
A1-5a-24	14	79.7	A1-5a	-	36.4	0	39.3	49.8	64.4	53.4	0	64.9	64.9	70	N	-	-	28.5	Y	N	N
A1-5a-24	15	83	A1-5a	-	36.8	0	41	49.9	64.2	54.3	0	64.8	64.8	70	N	-	-	28.0	Y	N	N
A1-5a-24	16	86.3	A1-5a	-	37.3	0	42.3	50	64	55.2	0	64.7	64.7	70	N	-	-	27.4	Y	N	N
A1-5a-24	17	89.6	A1-5a	-	37.8	0	43.8	50.2	63.8	56	0	64.7	64.7	70	N	-	-	26.9	Y	N	N
A1-5a-24	18	92.9	A1-5a	-	38.5	0	44.8	50.5	63.6	56.6	0	64.6	64.6	70	N	-	-	26.1	Y	N	N
A1-5a-24	19	96.2	A1-5a	-	39.3	0	45.6	50.8	63.4	57.3	0	64.6	64.6	70	N	-	-	25.3	Y	N	N
A1-5a-24	20	99.5	A1-5a	-	39.4	0	46.3	51.2	63.3	57.9	0	64.6	64.7	70	N	-	-	25.3	Y	N	N
A1-5a-24	21	102.8	A1-5a	-	39.7	0	47	51.6	63.1	58.5	0	64.7	64.7	70	N	-	-	25.0	Y	N	N
A1-5a-24	22	106.1	A1-5a	-	40.1	0	47.4	52.2	63	59.1	0	64.8	64.8	70	N	-	-	24.7	Y	N	N
A1-5a-24	23	109.4	A1-5a	-	40.6	0	47.8	52.6	62.8	59.5	0	64.8	64.8	70	N	-	-	24.2	Y	N	N
A1-5a-24	24	112.7	A1-5a	-	41.1	0	48	52.9	62.7	60	0	64.9	64.9	70	N	-	-	23.8	Y	N	N
A1-5a-24	25	116	A1-5a	-	41.5	0	48.2	53.2	62.5	60.4	0	65	65.0	70	N	-	-	23.5	Y	N	N
A1-5a-25	1	36.8	A1-5a	-	3.1	0	23.9	49.2	67.9	43.5	0	68	68.0	70	N	-	-	64.9	Y	N	N
A1-5a-25	2	40.1	A1-5a	-	3.1	0	24.6	49.3	67.5	44	0	67.6	67.6	70	N	-	-	64.5	Y	N	N
A1-5a-25	3	43.4	A1-5a	-	3.1	0	25.2	49.3	67.1	44.5	0	67.2	67.2	70	N	-	-	64.1	Y	N	N
A1-5a-25	4	46.7	A1-5a	-	3.1	0	25.9	49.3	66.7	45	0	66.8	66.8	70	N	-	-	63.7	Y	N	N
A1-5a-25	5	50	A1-5a	-	3.2	0	26.6	49.4	66.4	45.6	0	66.5	66.5	70	N	-	-	63.3	Y	N	N
A1-5a-25	6	53.3	A1-5a	-	3.2	0	27.3	49.4	66.1	46.2	0	66.2	66.2	70	N	-	-	63.0	Y	N	N
A1-5a-25	7	56.6	A1-5a	-	3.2	0	28	49.4	65.7	46.8	0	65.9	65.9	70	N	-	-	62.7	Y	N	N
A1-5a-25	8	59.9	A1-5a	-	3.1	0	28.7	49.4	65.4	47.5	0	65.6	65.6	70	N	-	-	62.5	Y	N	N
A1-5a-25	9	63.2	A1-5a	-	3.1	0	29.5	49.5	65.2	48.2	0	65.4	65.4	70	N	-	-	62.3	Y	N	N
A1-5a-25	10	66.5	A1-5a	-	3.2	0	30.3	49.5	64.9	48.9	0	65.1	65.1	70	N	-	-	61.9	Y	N	N
A1-5a-25	11	69.8	A1-5a	-	3.2	0	31.2	49.5	64.6	49.6	0	64.9	64.9	70	N	-	-	61.7	Y	N	N
A1-5a-25	12	73.1	A1-5a	-	3.2	0	32.1	49.6	64.4	50.4	0	64.7	64.7	70	N	-	-	61.5	Y	N	N
A1-5a-25	13	76.4	A1-5a	-	3.2	0	33	49.7	64.2	51.2	0	64.5	64.5	70	N	-	-	61.3	Y	N	N
A1-5a-25	14	79.7	A1-5a	-	3.2	0	33.9	49.8	64	52	0	64.4	64.4	70	N	-	-	61.2	Y	N	N
A1-5a-25	15	83	A1-5a	-	3.2	0	34.9	49.8	63.8	52.8	0	64.3	64.3	70	N	-	-	61.1	Y	N	N
A1-5a-25	16	86.3	A1-5a	-	3.2	0	36.1	49.9	63.6	53.7	0	64.2	64.2	70	N	-	-	61.0	Y	N	N
A1-5a-25	17	89.6	A1-5a	-	3.2	0	37.4	50	63.4	54.5	0	64.1	64.1	70	N	-	-	60.9	Y	N	N
A1-5a-25	18	92.9	A1-5a	-	3.2	0	38.9	50.2	63.2	55.3	0	64	64.0	70	N	-	-	60.8	Y	N	N
A1-5a-25	19	96.2	A1-5a	-	3.2	0	40.8	50.4	63	56.1	0	64	64.0	70	N	-	-	60.8	Y	N	N
A1-5a-25	20	99.5	A1-5a	-	3.2	0	42	50.7	62.8	56.8	0	64	64.0	70	N	-	-	60.8	Y	N	N
A1-5a-25	21	102.8	A1-5a	-	3.2	0	43.5	51	62.7	57.4	0	64.1	64.1	70	N	-	-	60.9	Y	N	N
A1-5a-25	22	106.1	A1-5a	-	3.2	0	44.4	51.4	62.5	58	0	64.1	64.1	70	N	-	-	60.9	Y	N	N
A1-5a-25	23	109.4	A1-5a	-	2.9	0	45.1	51.8	62.3	58.5	0	64.2	64.2	70	N	-	-	61.3	Y	N	N
A1-5a-25	24	112.7	A1-5a	-	4.2	0	45.5	52.2	62.2	59	0	64.2	64.2	70	N	-	-	60.0	Y	N	N
A1-5a-25	25	116	A1-5a	-	5.7	0	45.7	52.5	62	59.5	0	64.3	64.3	70	N	-	-	58.6	Y	N	N
A1-5a-26	1	36.8	A1-5a	-	3	0	19.1	51.6	67.6	42.7	0	67.7	67.7	70	N	-	-	64.7	Y	N	N
A1-5a-26	2	40.1	A1-5a	-	3.1	0	19.5	51.5	67.2	43.1	0	67.3	67.3	70	N	-	-	64.2	Y	N	N
A1-5a-26	3	43.4	A1-5a	-	3.1	0	19.8	51.4	66.8	43.6	0	66.9	66.9	70	N	-	-	63.8	Y	N	N
A1-5a-26	4	46.7	A1-5a	-	3.1	0	20.3	51.2	66.5	44	0	66.6	66.6	70	N	-	-	63.5	Y	N	N
A1-5a-26	5	50	A1-5a	-	3.1	0	20.8	51.2	66.1	44.5	0	66.3	66.3	70	N	-	-	63.2	Y	N	N
A1-5a-26	6	53.3	A1-5a	-	3.2	0	21.3	51.1	65.8	45.1	0	66	66.0	70	N	-	-	62.8	Y	N	N
A1-5a-26	7	56.6	A1-5a	-	3.2	0	21.8	51	65.5	45.7	0	65.7	65.7	70	N	-	-	62.5	Y	N	N
A1-5a-26	8	59.9	A1-5a	-	3.2	0	22.4	50.9	65.2	46.2	0	65.4	65.4	70	N	-	-	62.2	Y	N	N
A1-5a-26	9	63.2	A1-5a	-	3.2	0	22.9	50.9	64.9	46.9	0	65.2	65.2	70	N	-	-	62.0	Y	N	N
A1-5a-26	10	66.5	A1-5a	-	3.2	0	23.6	50.8	64.7	47.6	0	64.9	64.9	70	N	-	-	61.7	Y	N	N
A1-5a-26	11	69.8	A1-5a	-	3.2	0	24.2	50.8	64.4	48.2	0	64.7	64.7	70	N	-	-	61.5	Y	N	N
A1-5a-26	12	73.1	A1-5a	-	3.3	0	24.7	50.8	64.2	49	0	64.5	64.5	70	N	-	-	61.2	Y	N	N
A1-5a-26	13	76.4	A1-5a	-	3.3	0	25.4	50.8	63.9	49.6	0	64.3	64.3	70	N	-	-	61.0	Y	N	N
A1-5a-26	14	79.7	A1-5a	-	3.3	0	26.2	50.7	63.7	50.3	0	64.1	64.1	70	N	-	-	60.8	Y	N	N
A1-5a-26	15	83	A1-5a	-	3.2	0	27	50.7	63.5	51	0	64	64.0	70	N	-	-	60.8	Y	N	N
A1-5a-26	16	86.3	A1-5a	-	3.2	0	27.9	50.8	63.3	51.8	0	63.8	63.8	70	N	-	-	60.6	Y	N	N
A1-5a-26	17	89.6	A1-5a	-	3.2	0	28.8	50.8	63.1	52.6	0	63.7	63.7	70	N	-	-	60.5	Y	N	N
A1-5a-26	18	92.9	A1-5a	-	3.2	0	29.7	50.9	63	53.3	0	63.7	63.7	70	N	-	-	60.5	Y	N	N
A1-5a-26	19	96.2	A1-5a	-	3.2	0	30.8	51	62.8	54.2	0	63.6	63.6	70	N	-	-	60.4	Y	N	N
A1-5a-26	20	99.5	A1-5a	-	3.2	0	32	51.2	62.6	55	0	63.6	63.6	70	N	-	-	60.4	Y	N	N
A1-5a-26	21	102.8	A1-5a	-	3.2	0	33.3	51.4	62.4	55.6	0	63.5	63.5	70	N	-	-	60.3	Y	N	N
A1-5a-26	22	106.1	A1-5a	-	3.2	0	35.2	51.7	62.3	56.3	0	63.6	63.6	70	N	-	-	60.4	Y	N	N
A1-5a-26	23	109.4	A1-5a	-	3	0	35.9	51.9	62.1	56.9	0	63.6	63.6	70	N	-	-	60.6	Y	N	N
A1-5a-26	24	112.7	A1-5a	-	4.3	0	37.4	52	62	57.5	0	63.6	63.6	70	N	-	-	59.3	Y	N	N
A1-5a-26	25	116	A1-5a	-	5.6	0	38.4	52.3	61.8	58.1	0	63.7	63.7	70	N	-	-	58.1	Y	N	N
A1-5a-27	1	36.8	A1-5a	-	3	0	10.7	53.5	67	40.6	0	67.2	67.2	70	N	-	-	64.2	Y	N	N
A1-5a-27	2	40.1	A1-5a	-	3.6	0	10.9	53.3	66.7	40.8	0	66.9	66.9	70	N	-	-	63.3	Y	N	N
A1-5a-27	3	43.4	A1-5a	-	4.2	0	11.1	53.1	66.3	41.1	0	66.6	66.6	70	N	-	-	62.4	Y	N	N
A1-5a-27	4	46.7	A1-5a	-	4.8	0	11.4	52.9	66	41.4	0	66.3	66.3	70	N	-	-	61.5	Y	N	N
A1-5a-27	5	50	A1-5a	-	5.6	0	11.6	52.8	65.7	41.7	0	66	66.0	70	N	-	-	60.4	Y	N	N
A1-5a-27	6	53.3	A1-5a	-	6.5	0	11.9	52.6	65.4	42.1	0	65.7	65.7	70	N	-	-	59.2	Y	N	N
A1-5a-27	7	56.6	A1-5a	-	7.4	0	12.2	52.5	65.1	42.5	0	65.4	65.4	70	N	-	-	58.0	Y	N	N
A1-5a-27	8	59.9	A1-5a	-	8.3	0	12.6	52.4	64.8	42.9	0	65.1	65.1	70	N	-	-	56.8	Y	N	N
A1-5a-27	9	63.2	A1-5a	-	9.3	0	13	52.3	64.6	43.4	0	64.9	64.9	70	N	-	-	55.6	Y	N	N
A1-5a-27	10	66.5	A1-5a	-	10.5	0	13.6	52.2	64.3	43.9	0	64.6	64.6	70	N	-	-	54.1	Y	N	N
A1-5a-27	11	69.8	A1-5a	-	11.7	0	14	52.1	64.1	44.4	0	64.4	64.4	70	N	-	-	52.7	Y	N	N
A1-5a-27	12	73.1	A1-5a	-	13	0	14.8	52	63.9	45.1	0	64.2	64.2	70	N	-	-	51.2	Y	N	N
A1-5a-27	13	76.4	A1-5a	-	14.4	0	15.8	51.9	63.6	45.7	0	64	64.0	70	N	-	-	49.6	Y	N	N
A1-5a-27	14	79.7	A1-5a	-	16	0	16.8	51.9	63.4	46.4	0	63.8	63.8	70	N	-	-	47.8	Y	N	N
A1-5a-27	15	83	A1-5a	-	17.8	0	18	51.8	63.2	47.1	0	63.6	63.6	70	N	-	-	45.8	Y	N	N
A1-5a-27	16	86.3	A1-5a	-	19.9	0	19.1	51.8	63	48	0	63.5	63.5	70	N	-	-	43.6	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance: C - A dB(A) [D]	Check Project Impact Significance: D ≥ 1dB(A)	Check Direct Mitigation: New Road Contribution dB(A) [E]	Check Direct Mitigation: New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	Check Direct Mitigation: New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)												
A1-5a-27	17	89.6	A1-5a	-	22.6	0	20.5	51.7	62.8	48.9	0	63.3	63.3	70	N	-	-	40.7	Y	N	N
A1-5a-27	18	92.9	A1-5a	-	25.8	0	21.9	51.8	62.6	49.6	0	63.2	63.2	70	N	-	-	37.4	Y	N	N
A1-5a-27	19	96.2	A1-5a	-	28.9	0	23.9	51.8	62.5	50.6	0	63.1	63.1	70	N	-	-	34.2	Y	N	N
A1-5a-27	20	99.5	A1-5a	-	30.1	0	25.3	51.9	62.3	51.4	0	63	63.0	70	N	-	-	32.9	Y	N	N
A1-5a-27	21	102.8	A1-5a	-	30.4	0	27.2	52	62.1	52.1	0	62.9	62.9	70	N	-	-	32.5	Y	N	N
A1-5a-27	22	106.1	A1-5a	-	30.6	0	28.3	52.1	62	52.9	0	62.9	62.9	70	N	-	-	32.3	Y	N	N
A1-5a-27	23	109.4	A1-5a	-	30.6	0	29.1	52.3	61.8	53.5	0	62.8	62.8	70	N	-	-	32.2	Y	N	N
A1-5a-27	24	112.7	A1-5a	-	30.6	0	29.8	52.4	61.7	54.2	0	62.8	62.8	70	N	-	-	32.2	Y	N	N
A1-5a-27	25	116	A1-5a	-	30.6	0	30.4	52.5	61.6	54.8	0	62.8	62.8	70	N	-	-	32.2	Y	N	N
A1-5a-28	1	36.8	A1-5a	-	2.9	0	11.6	52.9	66.7	41.4	0	66.8	66.8	70	N	-	-	63.9	Y	N	N
A1-5a-28	2	40.1	A1-5a	-	3.7	0	11.9	52.8	66.4	41.7	0	66.6	66.6	70	N	-	-	62.9	Y	N	N
A1-5a-28	3	43.4	A1-5a	-	4.7	0	12.3	52.6	66.1	42	0	66.3	66.3	70	N	-	-	61.6	Y	N	N
A1-5a-28	4	46.7	A1-5a	-	5.7	0	12.7	52.5	65.8	42.3	0	66	66.0	70	N	-	-	60.3	Y	N	N
A1-5a-28	5	50	A1-5a	-	6.7	0	13.1	52.4	65.5	42.7	0	65.7	65.7	70	N	-	-	59.0	Y	N	N
A1-5a-28	6	53.3	A1-5a	-	7.9	0	13.7	52.3	65.2	43.2	0	65.5	65.5	70	N	-	-	57.6	Y	N	N
A1-5a-28	7	56.6	A1-5a	-	9	0	14.2	52.1	64.9	43.7	0	65.2	65.2	70	N	-	-	56.2	Y	N	N
A1-5a-28	8	59.9	A1-5a	-	10.1	0	14.8	52	64.7	44.2	0	65	65.0	70	N	-	-	54.9	Y	N	N
A1-5a-28	9	63.2	A1-5a	-	11.3	0	15.5	52	64.5	44.7	0	64.8	64.8	70	N	-	-	53.5	Y	N	N
A1-5a-28	10	66.5	A1-5a	-	12.5	0	16.2	51.9	64.2	45.3	0	64.5	64.5	70	N	-	-	52.0	Y	N	N
A1-5a-28	11	69.8	A1-5a	-	13.9	0	17	51.8	64	45.9	0	64.3	64.3	70	N	-	-	50.4	Y	N	N
A1-5a-28	12	73.1	A1-5a	-	15.3	0	17.8	51.8	63.8	46.6	0	64.1	64.1	70	N	-	-	48.8	Y	N	N
A1-5a-28	13	76.4	A1-5a	-	16.7	0	18.9	51.7	63.5	47.2	0	63.9	63.9	70	N	-	-	47.2	Y	N	N
A1-5a-28	14	79.7	A1-5a	-	18.4	0	20	51.7	63.3	47.9	0	63.7	63.7	70	N	-	-	45.3	Y	N	N
A1-5a-28	15	83	A1-5a	-	20.2	0	21.3	51.6	63.1	48.5	0	63.6	63.6	70	N	-	-	43.4	Y	N	N
A1-5a-28	16	86.3	A1-5a	-	22.2	0	22.5	51.6	62.9	49.3	0	63.4	63.4	70	N	-	-	41.2	Y	N	N
A1-5a-28	17	89.6	A1-5a	-	24.8	0	23.9	51.6	62.8	50.1	0	63.3	63.3	70	N	-	-	38.5	Y	N	N
A1-5a-28	18	92.9	A1-5a	-	28.3	0	25.5	51.6	62.6	51	0	63.2	63.2	70	N	-	-	34.9	Y	N	N
A1-5a-28	19	96.2	A1-5a	-	31.4	0	27.7	51.6	62.4	51.7	0	63.1	63.1	70	N	-	-	31.7	Y	N	N
A1-5a-28	20	99.5	A1-5a	-	32.6	0	29.1	51.7	62.2	52.4	0	63	63.0	70	N	-	-	30.4	Y	N	N
A1-5a-28	21	102.8	A1-5a	-	33	0	30.9	51.8	62.1	53.1	0	63	63.0	70	N	-	-	30.0	Y	N	N
A1-5a-28	22	106.1	A1-5a	-	33.2	0	32	52	61.9	53.7	0	62.9	62.9	70	N	-	-	29.7	Y	N	N
A1-5a-28	23	109.4	A1-5a	-	33.2	0	32.5	52.2	61.8	54.5	0	63	63.0	70	N	-	-	29.8	Y	N	N
A1-5a-28	24	112.7	A1-5a	-	33.2	0	33	52.3	61.7	55.1	0	62.9	62.9	70	N	-	-	29.7	Y	N	N
A1-5a-28	25	116	A1-5a	-	33.1	0	33.3	52.4	61.5	55.9	0	63	63.0	70	N	-	-	29.9	Y	N	N
A1-5a-29	1	36.8	A1-5a	-	2.9	0	11.7	53	66.2	41.1	0	66.4	66.4	70	N	-	-	63.5	Y	N	N
A1-5a-29	2	40.1	A1-5a	-	3.7	0	11.9	52.9	65.9	41.4	0	66.1	66.1	70	N	-	-	62.4	Y	N	N
A1-5a-29	3	43.4	A1-5a	-	4.6	0	12.3	52.8	65.6	41.7	0	65.9	65.9	70	N	-	-	61.3	Y	N	N
A1-5a-29	4	46.7	A1-5a	-	5.6	0	12.8	52.6	65.4	42.1	0	65.6	65.6	70	N	-	-	60.0	Y	N	N
A1-5a-29	5	50	A1-5a	-	6.7	0	13.3	52.5	65.2	42.5	0	65.4	65.4	70	N	-	-	58.7	Y	N	N
A1-5a-29	6	53.3	A1-5a	-	7.8	0	13.8	52.4	64.9	42.9	0	65.2	65.2	70	N	-	-	57.4	Y	N	N
A1-5a-29	7	56.6	A1-5a	-	8.9	0	14.4	52.3	64.6	43.3	0	64.9	64.9	70	N	-	-	56.0	Y	N	N
A1-5a-29	8	59.9	A1-5a	-	9.9	0	14.9	52.2	64.4	43.8	0	64.7	64.7	70	N	-	-	54.8	Y	N	N
A1-5a-29	9	63.2	A1-5a	-	11.1	0	15.6	52.1	64.2	44.3	0	64.5	64.5	70	N	-	-	53.4	Y	N	N
A1-5a-29	10	66.5	A1-5a	-	12.3	0	16.3	52	64	44.9	0	64.3	64.3	70	N	-	-	52.0	Y	N	N
A1-5a-29	11	69.8	A1-5a	-	13.5	0	17.2	51.9	63.8	45.4	0	64.1	64.1	70	N	-	-	50.6	Y	N	N
A1-5a-29	12	73.1	A1-5a	-	14.9	0	18	51.9	63.6	46	0	63.9	63.9	70	N	-	-	49.0	Y	N	N
A1-5a-29	13	76.4	A1-5a	-	16.3	0	19.1	51.8	63.3	46.7	0	63.7	63.7	70	N	-	-	47.4	Y	N	N
A1-5a-29	14	79.7	A1-5a	-	17.8	0	20.2	51.7	63.1	47.4	0	63.6	63.6	70	N	-	-	45.8	Y	N	N
A1-5a-29	15	83	A1-5a	-	19.6	0	21.4	51.7	63	48	0	63.4	63.4	70	N	-	-	43.8	Y	N	N
A1-5a-29	16	86.3	A1-5a	-	21.5	0	22.6	51.7	62.8	48.8	0	63.3	63.3	70	N	-	-	41.8	Y	N	N
A1-5a-29	17	89.6	A1-5a	-	24	0	24.1	51.6	62.6	49.6	0	63.2	63.2	70	N	-	-	39.2	Y	N	N
A1-5a-29	18	92.9	A1-5a	-	27.2	0	25.7	51.6	62.4	50.4	0	63	63.0	70	N	-	-	35.8	Y	N	N
A1-5a-29	19	96.2	A1-5a	-	30.4	0	28.1	51.7	62.2	51.2	0	62.9	62.9	70	N	-	-	32.5	Y	N	N
A1-5a-29	20	99.5	A1-5a	-	32.1	0	29.3	51.7	62.1	52.1	0	62.9	62.9	70	N	-	-	30.8	Y	N	N
A1-5a-29	21	102.8	A1-5a	-	32.9	0	31.1	51.8	61.9	52.9	0	62.8	62.8	70	N	-	-	29.9	Y	N	N
A1-5a-29	22	106.1	A1-5a	-	33.1	0	32	51.9	61.8	53.6	0	62.8	62.8	70	N	-	-	29.7	Y	N	N
A1-5a-29	23	109.4	A1-5a	-	33.1	0	32.6	52.1	61.6	54.4	0	62.8	62.8	70	N	-	-	29.7	Y	N	N
A1-5a-29	24	112.7	A1-5a	-	33.1	0	33	52.2	61.5	55.1	0	62.8	62.8	70	N	-	-	29.7	Y	N	N
A1-5a-29	25	116	A1-5a	-	33.1	0	33.4	52.4	61.4	55.8	0	62.9	62.9	70	N	-	-	29.8	Y	N	N
A1-5a-30	1	36.8	A1-5a	-	2.9	0	10.7	49.3	65.4	40.9	0	65.5	65.5	70	N	-	-	62.6	Y	N	N
A1-5a-30	2	40.1	A1-5a	-	3.5	0	10.9	49.3	65.2	41.2	0	65.3	65.3	70	N	-	-	61.8	Y	N	N
A1-5a-30	3	43.4	A1-5a	-	4.4	0	11.5	49.3	65	41.5	0	65.1	65.1	70	N	-	-	60.7	Y	N	N
A1-5a-30	4	46.7	A1-5a	-	5.4	0	12	49.3	64.8	41.9	0	64.9	64.9	70	N	-	-	59.5	Y	N	N
A1-5a-30	5	50	A1-5a	-	6.5	0	12.6	49.4	64.6	42.2	0	64.8	64.8	70	N	-	-	58.3	Y	N	N
A1-5a-30	6	53.3	A1-5a	-	7.6	0	13.2	49.4	64.4	42.7	0	64.5	64.5	70	N	-	-	56.9	Y	N	N
A1-5a-30	7	56.6	A1-5a	-	8.7	0	13.8	49.4	64.2	43.1	0	64.3	64.3	70	N	-	-	55.6	Y	N	N
A1-5a-30	8	59.9	A1-5a	-	9.8	0	14.5	49.4	64	43.6	0	64.1	64.1	70	N	-	-	54.3	Y	N	N
A1-5a-30	9	63.2	A1-5a	-	10.9	0	15.3	49.4	63.8	44	0	64	64.0	70	N	-	-	53.1	Y	N	N
A1-5a-30	10	66.5	A1-5a	-	12.2	0	16	49.4	63.6	44.6	0	63.8	63.8	70	N	-	-	51.6	Y	N	N
A1-5a-30	11	69.8	A1-5a	-	13.6	0	17	49.4	63.4	45.1	0	63.6	63.6	70	N	-	-	50.0	Y	N	N
A1-5a-30	12	73.1	A1-5a	-	14.8	0	17.8	49.5	63.2	45.7	0	63.4	63.4	70	N	-	-	48.6	Y	N	N
A1-5a-30	13	76.4	A1-5a	-	16.3	0	18.9	49.5	63	46.3	0	63.3	63.3	70	N	-	-	47.0	Y	N	N
A1-5a-30	14	79.7	A1-5a	-	17.9	0	20	49.5	62.8	47	0	63.1	63.1	70	N	-	-	45.2	Y	N	N
A1-5a-30	15	83	A1-5a	-	19.6	0	21.1	49.6	62.6	47.7	0	63	63.0	70	N	-	-	43.4	Y	N	N
A1-5a-30	16	86.3	A1-5a	-	21.7	0	22.3	49.6	62.4	48.6	0	62.8	62.8	70	N	-	-	41.1	Y	N	N
A1-5a-30	17	89.6	A1-5a	-	24.1	0	23.6	49.6	62.3	49.4	0	62.7	62.7	70	N	-	-	38.6	Y	N	N
A1-5a-30	18	92.9	A1-5a	-	27.6	0	25.2	49.7	62.1	50.3	0	62.6	62.7	70	N	-	-	35.1	Y	N	N
A1-5a-30	19	96.2	A1-5a	-	30.7	0	27.4	49.8	61.9	51.2	0	62.5	62.5	70	N	-	-	31.8	Y	N	N
A1-5a-30	20	99.5	A1-5a	-	32.3	0	28.8	49.9	61.8	52.3	0	62.6	62.6	70	N	-	-	30.3	Y	N	N
A1-5a-30	21	102.8	A1-5a	-	32.9	0	30.8	50.1	61.7	53.2	0	62.5	62.5	70	N	-	-	29.6	Y	N	N
A1-5a-30	22	106.1	A1-5a	-	33.1	0	31.8	50.3	61.5	54.3	0	62.6	62.6	70	N	-	-	29.5	Y	N	N
A1-5a-30	23	109.4	A1-5a	-	33	0	32.5	50.5	61.4	55.1	0	62.6	62.6	70	N	-	-	29.6	Y	N	N
A1-5a-30	24	112.7	A1-5a	-	33	0	32.8	50.8	61.2	55.8	0	62.6	62.6	70	N	-	-	29.6	Y	N	N
A1-5a-30	25	116	A1-5a	-	33	0	33	51	61.1	56.4	0	62.7	62.7	70	N	-	-	29.7	Y	N	N
A1-5a-31	1	36.8	A1-5a	-	2.9	0	8.4	36.5	54.8	40.6	0	55	55.0	70	N	-	-	52.1	Y	N	N
A1-5a-31	2	40.1	A1-5a	-	3.3	0	8.8	48.5	63.7	40.8	0	63.8	63.8	70	N	-	-	60.5	Y	N	N
A1-5a-31	3	43.4	A1-5a	-	4.2	0	9.7	48.7	64.6	41.1	0	64.7	64.7	70	N	-	-	60.5	Y	N	N
A1-5a-31	4	46.7	A1-5a	-	5.1	0	10.4	48.7	64.4	41.5	0	64.5	64.5	70	N	-	-	59.4	Y	N	N
A1-5a-31	5	50	A1-5a	-	6	0	11.2	48.7	64.2	41.9	0	64.3	64.3	70	N	-	-	58.3	Y	N	N
A1-5a-31	6	53.3	A1-5a	-	7.1	0	12.1	48.7	64	42.2	0	64.2	64.2	70	N	-	-	57.1	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)									C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
A1-5a-31	7	56.6	A1-5a	-	8.1	0	12.9	48.7	63.8	42.7	0	64	64.0	70	N	-	-	55.9	Y	N	N
A1-5a-31	8	59.9	A1-5a	-	9.1	0	13.7	48.7	63.6	43.2	0	63.8	63.8	70	N	-	-	54.7	Y	N	N
A1-5a-31	9	63.2	A1-5a	-	10.4	0	14.6	48.8	63.4	43.7	0	63.6	63.6	70	N	-	-	53.2	Y	N	N
A1-5a-31	10	66.5	A1-5a	-	11.5	0	15.6	48.8	63.2	44.2	0	63.4	63.4	70	N	-	-	51.9	Y	N	N
A1-5a-31	11	69.8	A1-5a	-	12.9	0	16.5	48.8	63.1	44.7	0	63.3	63.3	70	N	-	-	50.4	Y	N	N
A1-5a-31	12	73.1	A1-5a	-	14.2	0	17.5	48.9	62.9	45.3	0	63.1	63.1	70	N	-	-	48.9	Y	N	N
A1-5a-31	13	76.4	A1-5a	-	15.7	0	18.6	48.8	62.7	46	0	63	63.0	70	N	-	-	47.3	Y	N	N
A1-5a-31	14	79.7	A1-5a	-	17.2	0	19.7	48.9	62.5	46.6	0	62.8	62.8	70	N	-	-	45.6	Y	N	N
A1-5a-31	15	83	A1-5a	-	19	0	20.8	48.9	62.4	47.4	0	62.7	62.7	70	N	-	-	43.7	Y	N	N
A1-5a-31	16	86.3	A1-5a	-	21	0	21.9	49	62.2	48.1	0	62.6	62.6	70	N	-	-	41.6	Y	N	N
A1-5a-31	17	89.6	A1-5a	-	23.5	0	23.4	49.1	62	48.9	0	62.4	62.4	70	N	-	-	38.9	Y	N	N
A1-5a-31	18	92.9	A1-5a	-	27.3	0	24.9	49.2	61.9	49.8	0	62.3	62.3	70	N	-	-	35.0	Y	N	N
A1-5a-31	19	96.2	A1-5a	-	30	0	27	49.2	61.8	50.9	0	62.3	62.3	70	N	-	-	32.3	Y	N	N
A1-5a-31	20	99.5	A1-5a	-	31.6	0	28.5	49.3	61.6	51.9	0	62.2	62.2	70	N	-	-	30.6	Y	N	N
A1-5a-31	21	102.8	A1-5a	-	32.3	0	30.5	49.5	61.5	52.9	0	62.3	62.3	70	N	-	-	30.0	Y	N	N
A1-5a-31	22	106.1	A1-5a	-	32.4	0	31.7	49.8	61.3	54	0	62.3	62.3	70	N	-	-	29.9	Y	N	N
A1-5a-31	23	109.4	A1-5a	-	32.5	0	32.2	50	61.2	54.8	0	62.3	62.3	70	N	-	-	29.8	Y	N	N
A1-5a-31	24	112.7	A1-5a	-	32.5	0	32.6	50.2	61.1	55.5	0	62.4	62.4	70	N	-	-	29.9	Y	N	N
A1-5a-31	25	116	A1-5a	-	32.5	0	32.7	50.5	60.9	56.1	0	62.4	62.4	70	N	-	-	29.9	Y	N	N
A1-5a-32	1	36.8	A1-5a	-	23.7	0	24.6	47.8	63.7	47.9	0	63.9	63.9	70	N	-	-	40.2	Y	N	N
A1-5a-32	2	40.1	A1-5a	-	24.4	0	25.1	47.8	64	48.3	0	64.2	64.2	70	N	-	-	39.8	Y	N	N
A1-5a-32	3	43.4	A1-5a	-	25.3	0	25.7	47.8	63.9	48.7	0	64.1	64.1	70	N	-	-	38.8	Y	N	N
A1-5a-32	4	46.7	A1-5a	-	26.2	0	26.3	47.8	63.7	49	0	64	64.0	70	N	-	-	37.8	Y	N	N
A1-5a-32	5	50	A1-5a	-	27	0	26.8	47.8	63.5	49.5	0	63.8	63.8	70	N	-	-	36.8	Y	N	N
A1-5a-32	6	53.3	A1-5a	-	28.1	0	27.4	47.8	63.4	49.9	0	63.7	63.7	70	N	-	-	35.6	Y	N	N
A1-5a-32	7	56.6	A1-5a	-	29	0	28	47.9	63.2	50.4	0	63.6	63.6	70	N	-	-	34.6	Y	N	N
A1-5a-32	8	59.9	A1-5a	-	30.1	0	28.6	47.8	63.1	50.8	0	63.4	63.4	70	N	-	-	33.3	Y	N	N
A1-5a-32	9	63.2	A1-5a	-	31.4	0	29.4	47.8	62.9	51.3	0	63.3	63.3	70	N	-	-	31.9	Y	N	N
A1-5a-32	10	66.5	A1-5a	-	32.8	0	30	47.9	62.7	51.9	0	63.2	63.2	70	N	-	-	30.4	Y	N	N
A1-5a-32	11	69.8	A1-5a	-	34.3	0	30.7	47.9	62.5	52.4	0	63.1	63.1	70	N	-	-	28.8	Y	N	N
A1-5a-32	12	73.1	A1-5a	-	35.6	0	31.5	48	62.4	53	0	63	63.0	70	N	-	-	27.4	Y	N	N
A1-5a-32	13	76.4	A1-5a	-	36.8	0	32.2	48	62.2	53.6	0	62.9	62.9	70	N	-	-	26.1	Y	N	N
A1-5a-32	14	79.7	A1-5a	-	37.8	0	33.1	48.2	62	54.2	0	62.9	62.9	70	N	-	-	25.1	Y	N	N
A1-5a-32	15	83	A1-5a	-	38.6	0	34	48.2	61.9	54.8	0	62.8	62.8	70	N	-	-	24.2	Y	N	N
A1-5a-32	16	86.3	A1-5a	-	39.1	0	34.9	48.2	61.7	55.4	0	62.8	62.8	70	N	-	-	23.7	Y	N	N
A1-5a-32	17	89.6	A1-5a	-	39.6	0	35.9	48.3	61.6	56	0	62.8	62.8	70	N	-	-	23.2	Y	N	N
A1-5a-32	18	92.9	A1-5a	-	40	0	37	48.4	61.5	56.6	0	62.9	62.9	70	N	-	-	22.9	Y	N	N
A1-5a-32	19	96.2	A1-5a	-	40.3	0	38.5	48.6	61.3	57.2	0	62.9	63.0	70	N	-	-	22.7	Y	N	N
A1-5a-32	20	99.5	A1-5a	-	40.7	0	39.6	48.8	61.2	57.8	0	63	63.0	70	N	-	-	22.3	Y	N	N
A1-5a-32	21	102.8	A1-5a	-	41.2	0	41.1	48.9	61.1	58.3	0	63.1	63.1	70	N	-	-	21.9	Y	N	N
A1-5a-32	22	106.1	A1-5a	-	41.3	0	42.2	49.3	60.9	58.9	0	63.2	63.2	70	N	-	-	21.9	Y	N	N
A1-5a-32	23	109.4	A1-5a	-	41.5	0	43.1	49.6	60.8	59.4	0	63.4	63.4	70	N	-	-	21.9	Y	N	N
A1-5a-32	24	112.7	A1-5a	-	41.6	0	43.8	50.2	60.7	59.9	0	63.6	63.6	70	N	-	-	22.0	Y	N	N
A1-5a-32	25	116	A1-5a	-	42	0	44.4	50.8	60.5	60.5	0	63.8	63.8	70	N	-	-	21.8	Y	N	N
A1-5a-33	1	36.8	A1-5a	-	23.9	0	24.6	48.3	64.5	48.4	0	64.7	64.7	70	N	-	-	40.8	Y	N	N
A1-5a-33	2	40.1	A1-5a	-	24.8	0	25.1	48.3	64.4	48.7	0	64.6	64.6	70	N	-	-	39.8	Y	N	N
A1-5a-33	3	43.4	A1-5a	-	25.6	0	25.6	48.3	64.2	49.1	0	64.4	64.4	70	N	-	-	38.8	Y	N	N
A1-5a-33	4	46.7	A1-5a	-	26.4	0	26.2	48.3	64	49.5	0	64.3	64.3	70	N	-	-	37.9	Y	N	N
A1-5a-33	5	50	A1-5a	-	27.4	0	26.7	48.4	63.8	49.9	0	64.1	64.1	70	N	-	-	36.7	Y	N	N
A1-5a-33	6	53.3	A1-5a	-	28.4	0	27.3	48.4	63.7	50.3	0	64	64.0	70	N	-	-	35.6	Y	N	N
A1-5a-33	7	56.6	A1-5a	-	29.5	0	27.9	48.4	63.5	50.8	0	63.8	63.8	70	N	-	-	34.3	Y	N	N
A1-5a-33	8	59.9	A1-5a	-	30.6	0	28.6	48.5	63.3	51.3	0	63.7	63.7	70	N	-	-	33.1	Y	N	N
A1-5a-33	9	63.2	A1-5a	-	31.9	0	29.2	48.5	63.1	51.8	0	63.6	63.6	70	N	-	-	31.7	Y	N	N
A1-5a-33	10	66.5	A1-5a	-	33.4	0	29.9	48.5	63	52.3	0	63.5	63.5	70	N	-	-	30.1	Y	N	N
A1-5a-33	11	69.8	A1-5a	-	34.9	0	30.6	48.6	62.8	52.8	0	63.3	63.3	70	N	-	-	28.4	Y	N	N
A1-5a-33	12	73.1	A1-5a	-	36.3	0	31.4	48.5	62.6	53.4	0	63.2	63.2	70	N	-	-	26.9	Y	N	N
A1-5a-33	13	76.4	A1-5a	-	37.7	0	32.2	48.5	62.4	54	0	63.2	63.2	70	N	-	-	25.5	Y	N	N
A1-5a-33	14	79.7	A1-5a	-	38.7	0	32.9	48.6	62.2	54.6	0	63.1	63.1	70	N	-	-	24.4	Y	N	N
A1-5a-33	15	83	A1-5a	-	39.6	0	33.8	48.7	62.1	55.2	0	63.1	63.1	70	N	-	-	23.5	Y	N	N
A1-5a-33	16	86.3	A1-5a	-	40.2	0	34.6	48.8	61.9	55.8	0	63	63.1	70	N	-	-	22.9	Y	N	N
A1-5a-33	17	89.6	A1-5a	-	40.6	0	35.6	48.9	61.8	56.4	0	63.1	63.1	70	N	-	-	22.5	Y	N	N
A1-5a-33	18	92.9	A1-5a	-	40.9	0	36.8	49	61.6	57	0	63.1	63.1	70	N	-	-	22.2	Y	N	N
A1-5a-33	19	96.2	A1-5a	-	41.2	0	38.1	49.1	61.5	57.7	0	63.2	63.2	70	N	-	-	22.0	Y	N	N
A1-5a-33	20	99.5	A1-5a	-	41.6	0	39.4	49.3	61.4	58.2	0	63.3	63.3	70	N	-	-	21.7	Y	N	N
A1-5a-33	21	102.8	A1-5a	-	42	0	40.8	49.5	61.2	58.7	0	63.3	63.4	70	N	-	-	21.4	Y	N	N
A1-5a-33	22	106.1	A1-5a	-	42	0	42	49.9	61.1	59.2	0	63.5	63.5	70	N	-	-	21.5	Y	N	N
A1-5a-33	23	109.4	A1-5a	-	42.2	0	43	50.3	61	59.8	0	63.7	63.7	70	N	-	-	21.5	Y	N	N
A1-5a-33	24	112.7	A1-5a	-	42.5	0	43.7	50.8	60.8	60.3	0	63.8	63.9	70	N	-	-	21.4	Y	N	N
A1-5a-33	25	116	A1-5a	-	42.8	0	44.4	51.3	60.7	60.9	0	64.1	64.1	70	N	-	-	21.3	Y	N	N
A1-5a-34	1	36.8	A1-5a	-	24.3	0	25.1	49.4	65	49.2	0	65.2	65.2	70	N	-	-	40.9	Y	N	N
A1-5a-34	2	40.1	A1-5a	-	25.1	0	25.5	49.4	64.9	49.5	0	65.1	65.1	70	N	-	-	40.0	Y	N	N
A1-5a-34	3	43.4	A1-5a	-	26	0	26	49.4	64.7	49.9	0	64.9	64.9	70	N	-	-	38.9	Y	N	N
A1-5a-34	4	46.7	A1-5a	-	26.9	0	26.5	49.4	64.5	50.3	0	64.8	64.8	70	N	-	-	37.9	Y	N	N
A1-5a-34	5	50	A1-5a	-	27.9	0	27.1	49.4	64.2	50.7	0	64.6	64.6	70	N	-	-	36.7	Y	N	N
A1-5a-34	6	53.3	A1-5a	-	29	0	27.6	49.5	64	51.2	0	64.4	64.4	70	N	-	-	35.4	Y	N	N
A1-5a-34	7	56.6	A1-5a	-	30.1	0	28.2	49.5	63.9	51.6	0	64.3	64.3	70	N	-	-	34.2	Y	N	N
A1-5a-34	8	59.9	A1-5a	-	31.3	0	28.8	49.5	63.7	52	0	64.1	64.1	70	N	-	-	32.8	Y	N	N
A1-5a-34	9	63.2	A1-5a	-	32.5	0	29.4	49.5	63.4	52.5	0	63.9	63.9	70	N	-	-	31.4	Y	N	N
A1-5a-34	10	66.5	A1-5a	-	34.2	0	30.1	49.5	63.2	53	0	63.8	63.8	70	N	-	-	29.6	Y	N	N
A1-5a-34	11	69.8	A1-5a	-	35.6	0	30.7	49.5	63	53.5	0	63.7	63.7	70	N	-	-	28.1	Y	N	N
A1-5a-34	12	73.1	A1-5a	-	37.3	0	31.4	49.5	62.8	54.1	0	63.6	63.6	70	N	-	-	26.3	Y	N	N
A1-5a-34	13	76.4	A1-5a	-	38.9	0	32.1	49.5	62.7	54.7	0	63.5	63.5	70	N	-	-	24.6	Y	N	N
A1-5a-34	14	79.7	A1-5a	-	40.1	0	32.9	49.7	62.5	55.3	0	63.4	63.5	70	N	-	-	23.4	Y	N	N
A1-5a-34	15	83	A1-5a	-	40.8	0	33.7	49.7	62.3	55.9	0	63.4	63.4	70	N	-	-	22.6	Y	N	N
A1-5a-34	16	86.3	A1-5a	-	41.4	0	34.6	49.8	62.2	56.5	0	63.4	63.4	70	N	-	-	22.0	Y	N	N
A1-5a-34	17	89.6	A1-5a	-	41.8	0	35.6	49.7	62	57.1	0	63.4	63.4	70	N	-	-	21.6	Y	N	N
A1-5a-34	18	92.9	A1-5a	-	42.1	0	36.7	49.9	61.8	57.7	0	63.4	63.5	70	N	-	-	21.4	Y	N	N
A1-5a-34	19	96.2	A1-5a	-	42.4	0	37.8	50	61.7	58.4	0	63.5	63.6	70	N	-	-	21.2	Y	N	N
A1-5a-34	20	99.5	A1-5a	-	42.9	0	39.5	50.2	61.5	58.8	0	63.6	63.7	70	N	-	-	20.8	Y	N	N
A1-5a-34	21	102.8	A1-5a	-	43.1	0	40.5	50.5	61.4	59.4	0	63.7	63.8	70	N	-	-	20.7	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
A1-5a-34	22	106.1	A1-5a	-	43.2	0	41.9	50.8	61.3	59.9	0	63.9	63.9	70	N	-	-	20.7	Y	N	N
A1-5a-34	23	109.4	A1-5a	-	43.4	0	43	51.2	61.1	60.5	0	64.1	64.1	70	N	-	-	20.7	Y	N	N
A1-5a-34	24	112.7	A1-5a	-	43.6	0	43.7	51.7	61	61	0	64.3	64.3	70	N	-	-	20.7	Y	N	N
A1-5a-34	25	116	A1-5a	-	43.8	0	44.4	52.2	60.9	61.6	0	64.6	64.6	70	N	-	-	20.8	Y	N	N
A1-5a-35	1	36.8	A1-5a	-	24.5	0	25.3	50.1	65.4	49.7	0	65.6	65.6	70	N	-	-	41.1	Y	N	N
A1-5a-35	2	40.1	A1-5a	-	25.4	0	25.8	50.1	65.2	50.1	0	65.4	65.4	70	N	-	-	40.0	Y	N	N
A1-5a-35	3	43.4	A1-5a	-	26.3	0	26.3	50.1	64.9	50.4	0	65.2	65.2	70	N	-	-	38.9	Y	N	N
A1-5a-35	4	46.7	A1-5a	-	27.2	0	26.8	50.1	64.7	50.8	0	65	65.0	70	N	-	-	37.8	Y	N	N
A1-5a-35	5	50	A1-5a	-	28.3	0	27.3	50.1	64.5	51.2	0	64.8	64.8	70	N	-	-	36.5	Y	N	N
A1-5a-35	6	53.3	A1-5a	-	29.2	0	27.8	50.1	64.3	51.6	0	64.6	64.6	70	N	-	-	35.4	Y	N	N
A1-5a-35	7	56.6	A1-5a	-	30.4	0	28.4	50.1	64	52.1	0	64.5	64.5	70	N	-	-	34.1	Y	N	N
A1-5a-35	8	59.9	A1-5a	-	31.7	0	28.9	50.2	63.8	52.5	0	64.3	64.3	70	N	-	-	32.6	Y	N	N
A1-5a-35	9	63.2	A1-5a	-	32.9	0	29.5	50.2	63.6	53	0	64.2	64.2	70	N	-	-	31.3	Y	N	N
A1-5a-35	10	66.5	A1-5a	-	34.4	0	30.2	50.2	63.4	53.5	0	64	64.0	70	N	-	-	29.6	Y	N	N
A1-5a-35	11	69.8	A1-5a	-	36.1	0	30.8	50.2	63.2	54	0	63.9	63.9	70	N	-	-	27.8	Y	N	N
A1-5a-35	12	73.1	A1-5a	-	37.9	0	31.6	50.3	63	54.6	0	63.8	63.8	70	N	-	-	25.9	Y	N	N
A1-5a-35	13	76.4	A1-5a	-	39.7	0	32.3	50.3	62.8	55.1	0	63.7	63.7	70	N	-	-	24.0	Y	N	N
A1-5a-35	14	79.7	A1-5a	-	40.8	0	33.1	50.3	62.6	55.8	0	63.6	63.7	70	N	-	-	22.9	Y	N	N
A1-5a-35	15	83	A1-5a	-	41.6	0	33.9	50.3	62.5	56.4	0	63.6	63.7	70	N	-	-	22.1	Y	N	N
A1-5a-35	16	86.3	A1-5a	-	42.1	0	34.7	50.4	62.3	56.9	0	63.6	63.6	70	N	-	-	21.5	Y	N	N
A1-5a-35	17	89.6	A1-5a	-	42.5	0	35.8	50.4	62.1	57.6	0	63.6	63.7	70	N	-	-	21.2	Y	N	N
A1-5a-35	18	92.9	A1-5a	-	42.9	0	36.9	50.6	61.9	58.1	0	63.7	63.7	70	N	-	-	20.8	Y	N	N
A1-5a-35	19	96.2	A1-5a	-	43.2	0	38.2	50.7	61.8	58.8	0	63.8	63.8	70	N	-	-	20.6	Y	N	N
A1-5a-35	20	99.5	A1-5a	-	43.4	0	39.8	50.8	61.6	59.2	0	63.8	63.9	70	N	-	-	20.5	Y	N	N
A1-5a-35	21	102.8	A1-5a	-	43.5	0	40.8	51.1	61.5	59.7	0	64	64.0	70	N	-	-	20.5	Y	N	N
A1-5a-35	22	106.1	A1-5a	-	43.7	0	42.2	51.4	61.3	60.3	0	64.1	64.2	70	N	-	-	20.5	Y	N	N
A1-5a-35	23	109.4	A1-5a	-	44	0	43.2	51.9	61.2	60.8	0	64.3	64.4	70	N	-	-	20.4	Y	N	N
A1-5a-35	24	112.7	A1-5a	-	44.1	0	44	52.3	61	61.5	0	64.6	64.6	70	N	-	-	20.5	Y	N	N
A1-5a-35	25	116	A1-5a	-	44.4	0	44.7	52.6	60.9	62.1	0	64.9	64.9	70	N	-	-	20.5	Y	N	N
A1-5a-36	1	36.8	A1-5a	-	24.7	0	25.4	51	65.7	50.4	0	66	66.0	70	N	-	-	41.3	Y	N	N
A1-5a-36	2	40.1	A1-5a	-	25.6	0	25.8	51	65.5	50.7	0	65.7	65.7	70	N	-	-	40.1	Y	N	N
A1-5a-36	3	43.4	A1-5a	-	26.6	0	26.3	50.9	65.2	51.1	0	65.5	65.5	70	N	-	-	38.9	Y	N	N
A1-5a-36	4	46.7	A1-5a	-	27.5	0	26.8	50.9	65	51.4	0	65.3	65.3	70	N	-	-	37.8	Y	N	N
A1-5a-36	5	50	A1-5a	-	28.5	0	27.3	50.9	64.7	51.8	0	65.1	65.1	70	N	-	-	36.6	Y	N	N
A1-5a-36	6	53.3	A1-5a	-	29.6	0	27.8	50.9	64.5	52.2	0	64.9	64.9	70	N	-	-	35.3	Y	N	N
A1-5a-36	7	56.6	A1-5a	-	30.8	0	28.4	51	64.3	52.6	0	64.7	64.7	70	N	-	-	33.9	Y	N	N
A1-5a-36	8	59.9	A1-5a	-	32.1	0	28.9	51	64	53	0	64.5	64.5	70	N	-	-	32.4	Y	N	N
A1-5a-36	9	63.2	A1-5a	-	33.6	0	29.6	51	63.8	53.5	0	64.4	64.4	70	N	-	-	30.8	Y	N	N
A1-5a-36	10	66.5	A1-5a	-	35.3	0	30.2	51	63.6	54	0	64.2	64.2	70	N	-	-	28.9	Y	N	N
A1-5a-36	11	69.8	A1-5a	-	37.1	0	30.9	51	63.3	54.5	0	64.1	64.1	70	N	-	-	27.0	Y	N	N
A1-5a-36	12	73.1	A1-5a	-	39.1	0	31.6	51	63.1	55.1	0	64	64.0	70	N	-	-	24.9	Y	N	N
A1-5a-36	13	76.4	A1-5a	-	40.6	0	32.4	51	62.9	55.7	0	63.9	63.9	70	N	-	-	23.3	Y	N	N
A1-5a-36	14	79.7	A1-5a	-	41.7	0	33.1	51.1	62.8	56.2	0	63.9	63.9	70	N	-	-	22.2	Y	N	N
A1-5a-36	15	83	A1-5a	-	42.4	0	34	51.1	62.6	56.9	0	63.8	63.9	70	N	-	-	21.5	Y	N	N
A1-5a-36	16	86.3	A1-5a	-	42.9	0	35	51.2	62.4	57.4	0	63.8	63.8	70	N	-	-	20.9	Y	N	N
A1-5a-36	17	89.6	A1-5a	-	43.3	0	36	51.2	62.2	58	0	63.9	63.9	70	N	-	-	20.6	Y	N	N
A1-5a-36	18	92.9	A1-5a	-	43.6	0	37.1	51.3	62.1	58.6	0	63.9	64.0	70	N	-	-	20.4	Y	N	N
A1-5a-36	19	96.2	A1-5a	-	43.9	0	38.4	51.5	61.9	59.2	0	64	64.0	70	N	-	-	20.1	Y	N	N
A1-5a-36	20	99.5	A1-5a	-	44	0	40	51.6	61.8	59.7	0	64.1	64.2	70	N	-	-	20.2	Y	N	N
A1-5a-36	21	102.8	A1-5a	-	44.2	0	41.2	51.9	61.6	60.2	0	64.2	64.3	70	N	-	-	20.1	Y	N	N
A1-5a-36	22	106.1	A1-5a	-	44.3	0	42.4	52.2	61.4	60.8	0	64.4	64.5	70	N	-	-	20.2	Y	N	N
A1-5a-36	23	109.4	A1-5a	-	44.5	0	43.4	52.6	61.3	61.3	0	64.6	64.7	70	N	-	-	20.2	Y	N	N
A1-5a-36	24	112.7	A1-5a	-	44.7	0	44.1	52.9	61.2	62	0	64.9	65.0	70	N	-	-	20.3	Y	N	N
A1-5a-36	25	116	A1-5a	-	44.9	0	44.9	53.3	61	62.5	0	65.2	65.2	70	N	-	-	20.3	Y	N	N
A1-5a-37	1	36.8	A1-5a	-	25	0	25.3	51.6	66.2	51	0	66.4	66.4	70	N	-	-	41.4	Y	N	N
A1-5a-37	2	40.1	A1-5a	-	25.8	0	25.8	51.6	65.9	51.3	0	66.2	66.2	70	N	-	-	40.4	Y	N	N
A1-5a-37	3	43.4	A1-5a	-	26.8	0	26.2	51.6	65.6	51.7	0	65.9	65.9	70	N	-	-	39.1	Y	N	N
A1-5a-37	4	46.7	A1-5a	-	27.8	0	26.7	51.6	65.3	52.1	0	65.7	65.7	70	N	-	-	37.9	Y	N	N
A1-5a-37	5	50	A1-5a	-	28.9	0	27.2	51.7	65.1	52.4	0	65.5	65.5	70	N	-	-	36.6	Y	N	N
A1-5a-37	6	53.3	A1-5a	-	30	0	27.8	51.7	64.8	52.8	0	65.2	65.3	70	N	-	-	35.3	Y	N	N
A1-5a-37	7	56.6	A1-5a	-	31.3	0	28.4	51.7	64.5	53.3	0	65	65.0	70	N	-	-	33.7	Y	N	N
A1-5a-37	8	59.9	A1-5a	-	32.7	0	29	51.7	64.3	53.7	0	64.9	64.9	70	N	-	-	32.2	Y	N	N
A1-5a-37	9	63.2	A1-5a	-	34.2	0	29.6	51.6	64.1	54.1	0	64.7	64.7	70	N	-	-	30.5	Y	N	N
A1-5a-37	10	66.5	A1-5a	-	36.1	0	30.3	51.7	63.8	54.6	0	64.5	64.6	70	N	-	-	28.5	Y	N	N
A1-5a-37	11	69.8	A1-5a	-	38.1	0	31	51.7	63.6	55.1	0	64.4	64.4	70	N	-	-	26.3	Y	N	N
A1-5a-37	12	73.1	A1-5a	-	40.3	0	31.7	51.8	63.4	55.7	0	64.3	64.3	70	N	-	-	24.0	Y	N	N
A1-5a-37	13	76.4	A1-5a	-	41.7	0	32.5	51.8	63.2	56.2	0	64.2	64.2	70	N	-	-	22.5	Y	N	N
A1-5a-37	14	79.7	A1-5a	-	42.6	0	33.2	51.8	63	56.8	0	64.2	64.2	70	N	-	-	21.6	Y	N	N
A1-5a-37	15	83	A1-5a	-	43.2	0	34	51.8	62.8	57.4	0	64.1	64.2	70	N	-	-	21.0	Y	N	N
A1-5a-37	16	86.3	A1-5a	-	43.6	0	35	51.8	62.6	58	0	64.2	64.2	70	N	-	-	20.6	Y	N	N
A1-5a-37	17	89.6	A1-5a	-	43.9	0	36.1	51.9	62.4	58.6	0	64.2	64.2	70	N	-	-	20.3	Y	N	N
A1-5a-37	18	92.9	A1-5a	-	44.3	0	37.3	52	62.2	59.2	0	64.3	64.3	70	N	-	-	20.0	Y	N	N
A1-5a-37	19	96.2	A1-5a	-	44.5	0	38.7	52.2	62.1	59.7	0	64.3	64.4	70	N	-	-	19.9	Y	N	N
A1-5a-37	20	99.5	A1-5a	-	44.6	0	40	52.3	61.9	60.2	0	64.4	64.5	70	N	-	-	19.9	Y	N	N
A1-5a-37	21	102.8	A1-5a	-	44.7	0	41.4	52.5	61.8	60.8	0	64.6	64.6	70	N	-	-	19.9	Y	N	N
A1-5a-37	22	106.1	A1-5a	-	44.9	0	42.5	52.9	61.6	61.4	0	64.8	64.9	70	N	-	-	20.0	Y	N	N
A1-5a-37	23	109.4	A1-5a	-	45.1	0	43.6	53.3	61.5	62	0	65.1	65.1	70	N	-	-	20.0	Y	N	N
A1-5a-37	24	112.7	A1-5a	-	45.3	0	44.5	53.6	61.3	62.6	0	65.4	65.4	70	N	-	-	20.1	Y	N	N
A1-5a-37	25	116	A1-5a	-	45.4	0	45	53.8	61.2	63.1	0	65.6	65.6	70	N	-	-	20.2	Y	N	N
A1-5a-38	1	36.8	A1-5a	-	25.1	0	26.2	53.8	66.8	51.5	0	67.1	67.1	70	N	-	-	42.0	Y	N	N
A1-5a-38	2	40.1	A1-5a	-	26	0	26.8	53.8	66.5	51.8	0	66.8	66.8	70	N	-	-	40.8	Y	N	N
A1-5a-38	3	43.4	A1-5a	-	26.9	0	27.3	53.8	66.2	52.2	0	66.6	66.6	70	N	-	-	39.7	Y	N	N
A1-5a-38	4	46.7	A1-5a	-	28	0	27.9	53.8	65.9	52.6	0	66.3	66.3	70	N	-	-	38.3	Y	N	N
A1-5a-38	5	50	A1-5a	-	29	0	28.5	53.8	65.6	52.9	0	66.1	66.1	70	N	-	-	37.1	Y	N	N
A1-5a-38	6	53.3	A1-5a	-	30.1	0	29.2	53.8	65.4	53.4	0	65.9	65.9	70	N	-	-	35.8	Y	N	N
A1-5a-38	7	56.6	A1-5a	-	31.4	0	29.9	53.8	65.1	53.8	0	65.7	65.7	70	N	-	-	34.3	Y	N	N
A1-5a-38	8	59.9	A1-5a	-	32.8	0	30.6	53.8	64.8	54.2	0	65.5	65.5	70	N	-	-	32.7	Y	N	N
A1-5a-38	9	63.2	A1-5a	-	34.5	0	31.3	53.8	64.6	54.7	0	65.3	65.3	70	N	-	-	30.8	Y	N	N
A1-5a-38	10	66.5	A1-5a	-	36.4	0	32.3	53.8	64.3	55.2	0	65.2	65.2	70	N	-	-	28.8	Y	N	N
A1-5a-38	11	69.8	A1-5a	-	38.4	0	33.2	53.7	64.1	55.8	0	65	65.0	70	N	-	-	26.6	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
A1-5a-38	12	73.1	A1-5a	-	40.7	0	34.4	53.7	63.9	56.4	0	64.9	65.0	70	N	-	-	24.3	Y	N	N
A1-5a-38	13	76.4	A1-5a	-	42	0	35.5	53.8	63.7	57.1	0	64.9	64.9	70	N	-	-	22.9	Y	N	N
A1-5a-38	14	79.7	A1-5a	-	42.9	0	36.9	53.8	63.5	57.7	0	64.8	64.9	70	N	-	-	22.0	Y	N	N
A1-5a-38	15	83	A1-5a	-	43.5	0	37.9	53.8	63.3	58.5	0	64.9	64.9	70	N	-	-	21.4	Y	N	N
A1-5a-38	16	86.3	A1-5a	-	43.9	0	38.7	53.8	63.1	59.2	0	64.9	64.9	70	N	-	-	21.0	Y	N	N
A1-5a-38	17	89.6	A1-5a	-	44.2	0	39.6	53.9	62.9	59.9	0	65	65.0	70	N	-	-	20.8	Y	N	N
A1-5a-38	18	92.9	A1-5a	-	44.6	0	40.5	54	62.7	60.6	0	65.2	65.2	70	N	-	-	20.6	Y	N	N
A1-5a-38	19	96.2	A1-5a	-	44.8	0	41.5	54.1	62.6	61.1	0	65.3	65.3	70	N	-	-	20.5	Y	N	N
A1-5a-38	20	99.5	A1-5a	-	44.8	0	42.5	54.3	62.4	61.6	0	65.4	65.5	70	N	-	-	20.7	Y	N	N
A1-5a-38	21	102.8	A1-5a	-	45	0	43.4	54.5	62.2	62.2	0	65.6	65.6	70	N	-	-	20.6	Y	N	N
A1-5a-38	22	106.1	A1-5a	-	45.1	0	44.3	54.7	62.1	62.7	0	65.8	65.8	70	N	-	-	20.7	Y	N	N
A1-5a-38	23	109.4	A1-5a	-	45.3	0	45.1	55	62	63.2	0	66	66.1	70	N	-	-	20.8	Y	N	N
A1-5a-38	24	112.7	A1-5a	-	45.5	0	45.7	55.2	61.8	63.8	0	66.3	66.4	70	N	-	-	20.9	Y	N	N
A1-5a-38	25	116	A1-5a	-	45.6	0	46.2	55.4	61.7	64.2	0	66.5	66.6	70	N	-	-	21.0	Y	N	N
A1-5a-39	1	36.8	A1-5a	-	25.1	0	26.2	57.7	66.7	51.9	0	67.3	67.3	70	N	-	-	42.2	Y	N	N
A1-5a-39	2	40.1	A1-5a	-	26.1	0	26.8	57.5	66.4	52.1	0	67.1	67.1	70	N	-	-	41.0	Y	N	N
A1-5a-39	3	43.4	A1-5a	-	27	0	27.3	57.4	66.1	52.5	0	66.8	66.8	70	N	-	-	39.8	Y	N	N
A1-5a-39	4	46.7	A1-5a	-	28	0	27.9	57.2	65.8	52.9	0	66.5	66.5	70	N	-	-	38.5	Y	N	N
A1-5a-39	5	50	A1-5a	-	29.1	0	28.5	57.1	65.5	53.3	0	66.3	66.3	70	N	-	-	37.2	Y	N	N
A1-5a-39	6	53.3	A1-5a	-	30.2	0	29.1	57	65.3	53.7	0	66.1	66.1	70	N	-	-	35.9	Y	N	N
A1-5a-39	7	56.6	A1-5a	-	31.4	0	29.9	56.9	65	54.1	0	65.9	65.9	70	N	-	-	34.5	Y	N	N
A1-5a-39	8	59.9	A1-5a	-	32.9	0	30.5	56.8	64.7	54.6	0	65.7	65.7	70	N	-	-	32.8	Y	N	N
A1-5a-39	9	63.2	A1-5a	-	34.5	0	31.3	56.7	64.5	55	0	65.5	65.5	70	N	-	-	31.0	Y	N	N
A1-5a-39	10	66.5	A1-5a	-	36.4	0	32.2	56.6	64.2	55.6	0	65.4	65.4	70	N	-	-	29.0	Y	N	N
A1-5a-39	11	69.8	A1-5a	-	38.5	0	33.2	56.4	64	56.1	0	65.3	65.3	70	N	-	-	26.8	Y	N	N
A1-5a-39	12	73.1	A1-5a	-	40.9	0	34.4	56.4	63.8	56.7	0	65.2	65.2	70	N	-	-	24.3	Y	N	N
A1-5a-39	13	76.4	A1-5a	-	42.1	0	35.6	56.3	63.6	57.3	0	65.1	65.1	70	N	-	-	23.0	Y	N	N
A1-5a-39	14	79.7	A1-5a	-	43.1	0	36.9	56.2	63.4	58	0	65.1	65.1	70	N	-	-	22.0	Y	N	N
A1-5a-39	15	83	A1-5a	-	43.7	0	37.9	56.2	63.2	58.8	0	65.1	65.1	70	N	-	-	21.4	Y	N	N
A1-5a-39	16	86.3	A1-5a	-	44.1	0	38.7	56.2	63	59.4	0	65.1	65.2	70	N	-	-	21.1	Y	N	N
A1-5a-39	17	89.6	A1-5a	-	44.4	0	39.6	56.1	62.8	60.1	0	65.3	65.3	70	N	-	-	20.9	Y	N	N
A1-5a-39	18	92.9	A1-5a	-	44.7	0	40.4	56.1	62.7	60.8	0	65.4	65.4	70	N	-	-	20.7	Y	N	N
A1-5a-39	19	96.2	A1-5a	-	44.9	0	41.6	56.1	62.5	61.3	0	65.5	65.5	70	N	-	-	20.6	Y	N	N
A1-5a-39	20	99.5	A1-5a	-	44.9	0	42.4	56.2	62.3	61.8	0	65.6	65.7	70	N	-	-	20.8	Y	N	N
A1-5a-39	21	102.8	A1-5a	-	45.1	0	43.4	56.3	62.2	62.4	0	65.8	65.9	70	N	-	-	20.8	Y	N	N
A1-5a-39	22	106.1	A1-5a	-	45.3	0	44.2	56.4	62	62.9	0	66	66.0	70	N	-	-	20.7	Y	N	N
A1-5a-39	23	109.4	A1-5a	-	45.4	0	45.1	56.6	61.9	63.4	0	66.2	66.3	70	N	-	-	20.9	Y	N	N
A1-5a-39	24	112.7	A1-5a	-	45.6	0	45.7	56.7	61.7	64	0	66.5	66.6	70	N	-	-	21.0	Y	N	N
A1-5a-39	25	116	A1-5a	-	45.7	0	46.2	56.8	61.6	64.4	0	66.7	66.7	70	N	-	-	21.0	Y	N	N
A1-5a-40	1	36.8	A1-5a	-	3.7	0	20	57.9	64.5	51.1	0	65.5	65.5	70	N	-	-	61.8	Y	N	N
A1-5a-40	2	40.1	A1-5a	-	3.7	0	21	57.7	64.3	51.4	0	65.3	65.3	70	N	-	-	61.6	Y	N	N
A1-5a-40	3	43.4	A1-5a	-	3.7	0	21.7	57.6	64	51.6	0	65.1	65.1	70	N	-	-	61.4	Y	N	N
A1-5a-40	4	46.7	A1-5a	-	3.7	0	22.7	57.5	63.8	52	0	64.9	64.9	70	N	-	-	61.2	Y	N	N
A1-5a-40	5	50	A1-5a	-	3.8	0	23.4	57.4	63.5	52.4	0	64.7	64.7	70	N	-	-	60.9	Y	N	N
A1-5a-40	6	53.3	A1-5a	-	3.8	0	24.4	57.2	63.2	52.7	0	64.5	64.5	70	N	-	-	60.7	Y	N	N
A1-5a-40	7	56.6	A1-5a	-	3.8	0	25.3	57.1	63	53.1	0	64.3	64.3	70	N	-	-	60.5	Y	N	N
A1-5a-40	8	59.9	A1-5a	-	3.8	0	26.4	57	62.7	53.4	0	64.2	64.2	70	N	-	-	60.4	Y	N	N
A1-5a-40	9	63.2	A1-5a	-	3.8	0	27.4	56.9	62.5	53.7	0	64	64.0	70	N	-	-	60.2	Y	N	N
A1-5a-40	10	66.5	A1-5a	-	3.8	0	28.6	56.8	62.3	54.2	0	63.9	63.9	70	N	-	-	60.1	Y	N	N
A1-5a-40	11	69.8	A1-5a	-	3.8	0	29.9	56.7	62.1	54.6	0	63.7	63.7	70	N	-	-	59.9	Y	N	N
A1-5a-40	12	73.1	A1-5a	-	3.8	0	31.4	56.7	61.9	55.1	0	63.7	63.7	70	N	-	-	59.9	Y	N	N
A1-5a-40	13	76.4	A1-5a	-	3.8	0	32.9	56.6	61.7	55.7	0	63.6	63.6	70	N	-	-	59.8	Y	N	N
A1-5a-40	14	79.7	A1-5a	-	3.6	0	34.6	56.5	61.5	56.4	0	63.6	63.6	70	N	-	-	60.0	Y	N	N
A1-5a-40	15	83	A1-5a	-	4.8	0	35.7	56.4	61.3	57.1	0	63.6	63.6	70	N	-	-	58.8	Y	N	N
A1-5a-40	16	86.3	A1-5a	-	6	0	36.5	56.4	61.1	57.7	0	63.7	63.7	70	N	-	-	57.7	Y	N	N
A1-5a-40	17	89.6	A1-5a	-	7.3	0	37.2	56.3	60.9	58.4	0	63.7	63.7	70	N	-	-	56.4	Y	N	N
A1-5a-40	18	92.9	A1-5a	-	8.8	0	37.8	56.3	60.7	58.9	0	63.8	63.8	70	N	-	-	55.0	Y	N	N
A1-5a-40	19	96.2	A1-5a	-	10.3	0	38.3	56.3	60.6	59.5	0	63.9	63.9	70	N	-	-	53.6	Y	N	N
A1-5a-40	20	99.5	A1-5a	-	11.9	0	38.9	56.3	60.4	60	0	64	64.0	70	N	-	-	52.1	Y	N	N
A1-5a-40	21	102.8	A1-5a	-	13.6	0	39.2	56.4	60.3	60.4	0	64.2	64.2	70	N	-	-	50.6	Y	N	N
A1-5a-40	22	106.1	A1-5a	-	15.5	0	39.4	56.5	60.1	60.9	0	64.3	64.3	70	N	-	-	48.8	Y	N	N
A1-5a-40	23	109.4	A1-5a	-	17.4	0	39.6	56.6	60	61.4	0	64.5	64.5	70	N	-	-	47.1	Y	N	N
A1-5a-40	24	112.7	A1-5a	-	19.5	0	39.7	56.6	59.8	61.9	0	64.8	64.8	70	N	-	-	45.3	Y	N	N
A1-5a-40	25	116	A1-5a	-	22	0	39.8	56.7	59.7	62.4	0	65	65.0	70	N	-	-	43.0	Y	N	N
A1-5a-41	1	36.8	A1-5a	-	3.7	0	15.7	58	62.7	50.8	0	64.2	64.2	70	N	-	-	60.5	Y	N	N
A1-5a-41	2	40.1	A1-5a	-	3.7	0	16.4	57.8	62.5	51.1	0	64	64.0	70	N	-	-	60.3	Y	N	N
A1-5a-41	3	43.4	A1-5a	-	3.7	0	17.3	57.7	62.3	51.4	0	63.9	63.9	70	N	-	-	60.2	Y	N	N
A1-5a-41	4	46.7	A1-5a	-	3.8	0	18	57.6	62.1	51.7	0	63.7	63.7	70	N	-	-	59.9	Y	N	N
A1-5a-41	5	50	A1-5a	-	3.8	0	18.9	57.5	61.8	52.1	0	63.5	63.5	70	N	-	-	59.7	Y	N	N
A1-5a-41	6	53.3	A1-5a	-	3.8	0	19.6	57.4	61.6	52.4	0	63.4	63.4	70	N	-	-	59.6	Y	N	N
A1-5a-41	7	56.6	A1-5a	-	3.8	0	20.4	57.3	61.4	52.7	0	63.2	63.2	70	N	-	-	59.4	Y	N	N
A1-5a-41	8	59.9	A1-5a	-	3.8	0	21.2	57.2	61.2	53.1	0	63.1	63.1	70	N	-	-	59.3	Y	N	N
A1-5a-41	9	63.2	A1-5a	-	3.8	0	22	57.2	61	53.6	0	63	63.0	70	N	-	-	59.2	Y	N	N
A1-5a-41	10	66.5	A1-5a	-	3.8	0	23	57.1	60.8	54	0	62.9	62.9	70	N	-	-	59.1	Y	N	N
A1-5a-41	11	69.8	A1-5a	-	3.8	0	23.9	57	60.6	54.4	0	62.8	62.8	70	N	-	-	59.0	Y	N	N
A1-5a-41	12	73.1	A1-5a	-	3.8	0	24.7	56.9	60.4	54.8	0	62.8	62.8	70	N	-	-	59.0	Y	N	N
A1-5a-41	13	76.4	A1-5a	-	3.8	0	25.3	56.8	60.2	55.4	0	62.7	62.7	70	N	-	-	58.9	Y	N	N
A1-5a-41	14	79.7	A1-5a	-	3.4	0	26.1	56.7	60	56.1	0	62.7	62.7	70	N	-	-	59.3	Y	N	N
A1-5a-41	15	83	A1-5a	-	4.6	0	27	56.6	59.8	56.8	0	62.8	62.8	70	N	-	-	58.2	Y	N	N
A1-5a-41	16	86.3	A1-5a	-	5.9	0	28	56.6	59.7	57.5	0	62.9	62.9	70	N	-	-	57.0	Y	N	N
A1-5a-41	17	89.6	A1-5a	-	7.2	0	29.1	56.5	59.5	58.2	0	63	63.0	70	N	-	-	55.8	Y	N	N
A1-5a-41	18	92.9	A1-5a	-	8.6	0	30.5	56.5	59.3	58.8	0	63.1	63.1	70	N	-	-	54.5	Y	N	N
A1-5a-41	19	96.2	A1-5a	-	10.1	0	31.9	56.5	59.2	59.3	0	63.3	63.3	70	N	-	-	53.2	Y	N	N
A1-5a-41	20	99.5	A1-5a	-	11.7	0	33.1	56.4	59	59.8	0	63.4	63.4	70	N	-	-	51.7	Y	N	N
A1-5a-41	21	102.8	A1-5a	-	13.3	0	33.9	56.5	58.9	60.2	0	63.6	63.6	70	N	-	-	50.3	Y	N	N
A1-5a-41	22	106.1	A1-5a	-	15.1	0	34.2	56.5	58.7	60.7	0	63.8	63.8	70	N	-	-	48.7	Y	N	N
A1-5a-41	23	109.4	A1-5a	-	17	0	34.5	56.6	58.6	61.2	0	64	64.0	70	N	-	-	47.0	Y	N	N
A1-5a-41	24	112.7	A1-5a	-	19.1	0	34.5	56.7	58.5	61.7	0	64.3	64.3	70	N	-	-	45.2	Y	N	N
A1-5a-41	25	116	A1-5a	-	21.5	0	34.7	56.7	58.3	62.4	0	64.6	64.6	70	N	-	-	43.1	Y	N	N
A1-5a-42	1	36.8	A1-5a	-	3.7	0	15.8	56.5	62.8	50.6	0	63.9	63.9	70	N	-	-	60.2	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

				WITHOUT PROJECT	WITH PROJECT														
Assessment Point			Location	Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	New Roads[2]						Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]				C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
A1-5a-42	2	40.1	A1-5a	-	3.7	0	16.5	56.6	62.6	50.9	0	63.8	63.8	70	N	-	-	60.1	Y	N	N
A1-5a-42	3	43.4	A1-5a	-	3.6	0	17.4	57.4	62.4	51.2	0	63.9	63.9	70	N	-	-	60.3	Y	N	N
A1-5a-42	4	46.7	A1-5a	-	3.8	0	18.1	57.8	62.2	51.6	0	63.8	63.8	70	N	-	-	60.0	Y	N	N
A1-5a-42	5	50	A1-5a	-	3.8	0	19	57.7	62	51.9	0	63.7	63.7	70	N	-	-	59.9	Y	N	N
A1-5a-42	6	53.3	A1-5a	-	3.8	0	19.8	57.6	61.8	52.3	0	63.6	63.6	70	N	-	-	59.8	Y	N	N
A1-5a-42	7	56.6	A1-5a	-	3.8	0	20.6	57.5	61.6	52.5	0	63.4	63.4	70	N	-	-	59.6	Y	N	N
A1-5a-42	8	59.9	A1-5a	-	3.8	0	21.4	57.4	61.4	52.9	0	63.3	63.3	70	N	-	-	59.5	Y	N	N
A1-5a-42	9	63.2	A1-5a	-	3.8	0	22.2	57.3	61.2	53.3	0	63.2	63.2	70	N	-	-	59.4	Y	N	N
A1-5a-42	10	66.5	A1-5a	-	3.8	0	23.1	57.2	61	53.7	0	63.1	63.1	70	N	-	-	59.3	Y	N	N
A1-5a-42	11	69.8	A1-5a	-	3.8	0	24	57.1	60.9	54.2	0	63	63.0	70	N	-	-	59.2	Y	N	N
A1-5a-42	12	73.1	A1-5a	-	3.7	0	24.7	57.1	60.7	54.7	0	63	63.0	70	N	-	-	59.3	Y	N	N
A1-5a-42	13	76.4	A1-5a	-	3.7	0	25.4	57	60.5	55.3	0	62.9	62.9	70	N	-	-	59.2	Y	N	N
A1-5a-42	14	79.7	A1-5a	-	3.4	0	26.3	56.9	60.3	55.9	0	62.9	62.9	70	N	-	-	59.5	Y	N	N
A1-5a-42	15	83	A1-5a	-	4.6	0	27.1	56.8	60.1	56.6	0	62.9	62.9	70	N	-	-	58.3	Y	N	N
A1-5a-42	16	86.3	A1-5a	-	5.8	0	28	56.8	60	57.3	0	63	63.0	70	N	-	-	57.2	Y	N	N
A1-5a-42	17	89.6	A1-5a	-	7	0	29	56.7	59.8	58	0	63.1	63.1	70	N	-	-	56.1	Y	N	N
A1-5a-42	18	92.9	A1-5a	-	8.4	0	30.5	56.7	59.7	58.6	0	63.3	63.3	70	N	-	-	54.9	Y	N	N
A1-5a-42	19	96.2	A1-5a	-	9.8	0	31.8	56.6	59.5	59.2	0	63.4	63.4	70	N	-	-	53.6	Y	N	N
A1-5a-42	20	99.5	A1-5a	-	11.3	0	33.2	56.6	59.4	59.7	0	63.5	63.5	70	N	-	-	52.2	Y	N	N
A1-5a-42	21	102.8	A1-5a	-	13	0	33.8	56.6	59.2	60.1	0	63.7	63.7	70	N	-	-	50.7	Y	N	N
A1-5a-42	22	106.1	A1-5a	-	14.7	0	34.4	56.7	59.1	60.5	0	63.8	63.8	70	N	-	-	49.1	Y	N	N
A1-5a-42	23	109.4	A1-5a	-	16.7	0	34.5	56.7	58.9	61	0	64	64.0	70	N	-	-	47.3	Y	N	N
A1-5a-42	24	112.7	A1-5a	-	18.6	0	34.6	56.8	58.8	61.5	0	64.2	64.2	70	N	-	-	45.6	Y	N	N
A1-5a-42	25	116	A1-5a	-	20.8	0	34.7	56.8	58.7	62.1	0	64.6	64.6	70	N	-	-	43.8	Y	N	N
A1-5a-43	1	36.8	A1-5a	-	3.6	0	7.6	45.3	54.6	39.4	0	55.2	55.2	70	N	-	-	51.6	Y	N	N
A1-5a-43	2	40.1	A1-5a	-	3.6	0	8.1	45.4	55.5	39.7	0	56	56.0	70	N	-	-	52.4	Y	N	N
A1-5a-43	3	43.4	A1-5a	-	3.6	0	8.7	45.7	56.5	40.1	0	57	57.0	70	N	-	-	53.4	Y	N	N
A1-5a-43	4	46.7	A1-5a	-	3.6	0	9.3	46.3	56.6	40.6	0	57.1	57.1	70	N	-	-	53.5	Y	N	N
A1-5a-43	5	50	A1-5a	-	3.7	0	10	47.2	56.6	41	0	57.2	57.2	70	N	-	-	53.5	Y	N	N
A1-5a-43	6	53.3	A1-5a	-	3.6	0	10.8	48.2	56.8	41.6	0	57.4	57.4	70	N	-	-	53.8	Y	N	N
A1-5a-43	7	56.6	A1-5a	-	3.6	0	11.4	48.5	56.9	42.1	0	57.6	57.6	70	N	-	-	54.0	Y	N	N
A1-5a-43	8	59.9	A1-5a	-	3.6	0	12.2	48.7	56.8	42.7	0	57.6	57.6	70	N	-	-	54.0	Y	N	N
A1-5a-43	9	63.2	A1-5a	-	3.6	0	13	48.6	56.7	43.3	0	57.5	57.5	70	N	-	-	53.9	Y	N	N
A1-5a-43	10	66.5	A1-5a	-	3.6	0	13.8	48.7	56.6	43.9	0	57.4	57.4	70	N	-	-	53.8	Y	N	N
A1-5a-43	11	69.8	A1-5a	-	3.6	0	14.7	48.7	56.5	44.5	0	57.4	57.4	70	N	-	-	53.8	Y	N	N
A1-5a-43	12	73.1	A1-5a	-	3.6	0	15.6	48.7	56.4	45.2	0	57.3	57.3	70	N	-	-	53.7	Y	N	N
A1-5a-43	13	76.4	A1-5a	-	3.6	0	16.5	48.7	56.2	46	0	57.2	57.2	70	N	-	-	53.6	Y	N	N
A1-5a-43	14	79.7	A1-5a	-	3.3	0	17.5	48.6	56.1	46.7	0	57.2	57.2	70	N	-	-	53.9	Y	N	N
A1-5a-43	15	83	A1-5a	-	4.4	0	18.5	48.6	55.9	47.6	0	57.2	57.2	70	N	-	-	52.8	Y	N	N
A1-5a-43	16	86.3	A1-5a	-	5.6	0	19.6	48.6	55.8	48.5	0	57.2	57.2	70	N	-	-	51.6	Y	N	N
A1-5a-43	17	89.6	A1-5a	-	6.7	0	20.9	48.6	55.7	49.4	0	57.2	57.2	70	N	-	-	50.5	Y	N	N
A1-5a-43	18	92.9	A1-5a	-	8.1	0	22.5	48.6	55.5	50.7	0	57.4	57.4	70	N	-	-	49.3	Y	N	N
A1-5a-43	19	96.2	A1-5a	-	9.6	0	24.1	48.6	55.4	51.6	0	57.5	57.5	70	N	-	-	47.9	Y	N	N
A1-5a-43	20	99.5	A1-5a	-	11.1	0	26	48.6	55.3	52.8	0	57.8	57.8	70	N	-	-	46.7	Y	N	N
A1-5a-43	21	102.8	A1-5a	-	12.7	0	27.9	48.7	55.2	53.6	0	58	58.0	70	N	-	-	45.3	Y	N	N
A1-5a-43	22	106.1	A1-5a	-	14.4	0	29.3	48.8	55	54.1	0	58.1	58.1	70	N	-	-	43.7	Y	N	N
A1-5a-43	23	109.4	A1-5a	-	16.2	0	30.2	48.8	54.9	54.6	0	58.3	58.3	70	N	-	-	42.1	Y	N	N
A1-5a-43	24	112.7	A1-5a	-	18.1	0	30.6	49	54.8	55.1	0	58.5	58.5	70	N	-	-	40.4	Y	N	N
A1-5a-43	25	116	A1-5a	-	20.3	0	30.8	49.1	54.7	55.7	0	58.8	58.8	70	N	-	-	38.5	Y	N	N
A1-5a-44	1	36.8	A1-5a	-	3.5	0	4.1	41.8	56.8	42.2	0	57.1	57.1	70	N	-	-	53.6	Y	N	N
A1-5a-44	2	40.1	A1-5a	-	3.5	0	4.1	46	56.8	42.6	0	57.3	57.3	70	N	-	-	53.8	Y	N	N
A1-5a-44	3	43.4	A1-5a	-	3.6	0	4.1	46.6	57	42.9	0	57.6	57.6	70	N	-	-	54.0	Y	N	N
A1-5a-44	4	46.7	A1-5a	-	3.6	0	4.2	47.1	57.2	43.1	0	57.8	57.8	70	N	-	-	54.2	Y	N	N
A1-5a-44	5	50	A1-5a	-	3.6	0	4.2	47.9	57.2	43.5	0	57.8	57.8	70	N	-	-	54.2	Y	N	N
A1-5a-44	6	53.3	A1-5a	-	3.6	0	4.1	48.9	57.1	43.8	0	57.9	57.9	70	N	-	-	54.3	Y	N	N
A1-5a-44	7	56.6	A1-5a	-	3.6	0	4.2	49.4	57.3	44.2	0	58.1	58.1	70	N	-	-	54.5	Y	N	N
A1-5a-44	8	59.9	A1-5a	-	3.7	0	4.2	49.5	57.4	44.6	0	58.2	58.2	70	N	-	-	54.5	Y	N	N
A1-5a-44	9	63.2	A1-5a	-	3.7	0	4.2	49.6	57.4	45	0	58.2	58.2	70	N	-	-	54.5	Y	N	N
A1-5a-44	10	66.5	A1-5a	-	3.7	0	4.1	49.6	57.3	45.4	0	58.3	58.3	70	N	-	-	54.6	Y	N	N
A1-5a-44	11	69.8	A1-5a	-	3.7	0	4.2	49.6	57.2	45.9	0	58.2	58.2	70	N	-	-	54.5	Y	N	N
A1-5a-44	12	73.1	A1-5a	-	3.6	0	4.2	49.6	57.1	46.4	0	58.1	58.1	70	N	-	-	54.5	Y	N	N
A1-5a-44	13	76.4	A1-5a	-	3.6	0	4.1	49.6	56.9	46.9	0	58	58.0	70	N	-	-	54.4	Y	N	N
A1-5a-44	14	79.7	A1-5a	-	3.6	0	4.1	49.6	56.8	47.4	0	58	58.0	70	N	-	-	54.4	Y	N	N
A1-5a-44	15	83	A1-5a	-	4.1	0	4.1	49.6	56.7	48	0	58	58.0	70	N	-	-	53.9	Y	N	N
A1-5a-44	16	86.3	A1-5a	-	5.3	0	4	49.6	56.6	48.6	0	57.9	57.9	70	N	-	-	52.6	Y	N	N
A1-5a-44	17	89.6	A1-5a	-	6.5	0	4	49.6	56.4	49.3	0	57.9	57.9	70	N	-	-	51.4	Y	N	N
A1-5a-44	18	92.9	A1-5a	-	7.8	0	4	49.7	56.3	49.9	0	57.9	57.9	70	N	-	-	50.1	Y	N	N
A1-5a-44	19	96.2	A1-5a	-	9.2	0	3.9	49.7	56.2	50.5	0	58	58.0	70	N	-	-	48.8	Y	N	N
A1-5a-44	20	99.5	A1-5a	-	10.7	0	3.9	49.8	56.1	51.1	0	58	58.0	70	N	-	-	47.3	Y	N	N
A1-5a-44	21	102.8	A1-5a	-	12.3	0	4.6	49.8	56	51.7	0	58.1	58.1	70	N	-	-	45.8	Y	N	N
A1-5a-44	22	106.1	A1-5a	-	14	0	6.4	49.9	55.9	52	0	58.1	58.1	70	N	-	-	44.1	Y	N	N
A1-5a-44	23	109.4	A1-5a	-	15.8	0	8.7	50.1	55.7	52.4	0	58.1	58.1	70	N	-	-	42.3	Y	N	N
A1-5a-44	24	112.7	A1-5a	-	17.6	0	11.2	50.4	55.6	52.8	0	58.2	58.2	70	N	-	-	40.6	Y	N	N
A1-5a-44	25	116	A1-5a	-	19.6	0	13.8	50.7	55.5	53.3	0	58.4	58.4	70	N	-	-	38.8	Y	N	N
A1-5a-45	1	36.8	A1-5a	-	3.5	0	4.1	50.1	57.5	45.4	0	58.5	58.5	70	N	-	-	55.0	Y	N	N
A1-5a-45	2	40.1	A1-5a	-	3.6	0	4.2	50.9	57.5	45.7	0	58.6	58.6	70	N	-	-	55.0	Y	N	N
A1-5a-45	3	43.4	A1-5a	-	3.6	0	4.2	51.1	57.4	45.9	0	58.6	58.6	70	N	-	-	55.0	Y	N	N
A1-5a-45	4	46.7	A1-5a	-	3.6	0	4.2	51.2	57.5	46.1	0	58.7	58.7	70	N	-	-	55.1	Y	N	N
A1-5a-45	5	50	A1-5a	-	3.6	0	4.2	51.5	57.4	46.4	0	58.7	58.7	70	N	-	-	55.1	Y	N	N
A1-5a-45	6	53.3	A1-5a	-	3.7	0	4.2	51.9	57.4	46.7	0	58.8	58.8	70	N	-	-	55.1	Y	N	N
A1-5a-45	7	56.6	A1-5a	-	3.7	0	4.3	52	57.5	46.9	0	58.8	58.8	70	N	-	-	55.1	Y	N	N
A1-5a-45	8	59.9	A1-5a	-	3.7	0	4.2	52.1	57.7	47.3	0	59	59.0	70	N	-	-	55.3	Y	N	N
A1-5a-45	9	63.2	A1-5a	-	3.7	0	4.2	52.2	57.7	47.5	0	59.1	59.1	70	N	-	-	55.4	Y	N	N
A1-5a-45	10	66.5	A1-5a	-	3.7	0	4.2	52.2	57.7	47.8	0	59.1	59.1	70	N	-	-	55.4	Y	N	N
A1-5a-45	11	69.8	A1-5a	-	3.6	0	4.3	52.1	57.6	48.1	0	59	59.0	70	N	-	-	55.4	Y	N	N
A1-5a-45	12	73.1	A1-5a	-	3.6	0	4.2	52.1	57.5	48.4	0	59	59.0	70	N	-	-	55.4	Y	N	N
A1-5a-45	13	76.4	A1-5a	-	3.6	0	4.2	52.1	57.3	48.9	0	58.9	58.9	70	N	-	-	55.3	Y	N	N
A1-5a-45	14	79.7	A1-5a	-	3.6	0	4.2	52.1	57.2	49.3	0	58.9	58.9	70	N	-	-	55.3	Y	N	N
A1-5a-45	15	83	A1-5a	-	4	0	4.1	52.1	57.1	49.7	0	58.9	58.9	70	N	-	-	54.9	Y	N	N
A1-5a-45	16	86.3	A1-5a	-	5.2	0	4.1	52.1	57	50.2	0	58.9	58.9	70	N	-	-	53.7	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance: C - A dB(A) [D]	Check Project Impact Significance: D ≥ 1dB(A)	Check Direct Mitigation: New Road Contribution dB(A) [E]	Check Direct Mitigation: New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	Check Direct Mitigation: New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)												
A1-5a-45	17	89.6	A1-5a	-	6.5	0	4.1	52.1	56.9	50.7	0	58.9	58.9	70	N	-	-	52.4	Y	N	N
A1-5a-45	18	92.9	A1-5a	-	7.7	0	4	52.1	56.7	51.1	0	58.8	58.8	70	N	-	-	51.1	Y	N	N
A1-5a-45	19	96.2	A1-5a	-	9.2	0	4	52.1	56.6	51.6	0	58.9	58.9	70	N	-	-	49.7	Y	N	N
A1-5a-45	20	99.5	A1-5a	-	10.7	0	4	52.1	56.5	52.2	0	58.9	58.9	70	N	-	-	48.2	Y	N	N
A1-5a-45	21	102.8	A1-5a	-	12.4	0	4.5	52.2	56.4	52.7	0	59	59.0	70	N	-	-	46.6	Y	N	N
A1-5a-45	22	106.1	A1-5a	-	14.1	0	6.4	52.2	56.3	53	0	59	59.0	70	N	-	-	44.9	Y	N	N
A1-5a-45	23	109.4	A1-5a	-	15.8	0	8.7	52.3	56.2	53.3	0	59.1	59.1	70	N	-	-	43.3	Y	N	N
A1-5a-45	24	112.7	A1-5a	-	17.8	0	11	52.4	56.1	53.7	0	59.1	59.1	70	N	-	-	41.3	Y	N	N
A1-5a-45	25	116	A1-5a	-	19.9	0	13.6	52.6	56	54.1	0	59.2	59.2	70	N	-	-	39.3	Y	N	N
A1-5a-46	1	36.8	A1-5a	-	3.6	0	4.2	52.2	57.7	45.3	0	59	59.0	70	N	-	-	55.4	Y	N	N
A1-5a-46	2	40.1	A1-5a	-	3.6	0	4.1	52.3	57.7	45.4	0	59	59.0	70	N	-	-	55.4	Y	N	N
A1-5a-46	3	43.4	A1-5a	-	3.6	0	4.2	52.3	57.6	45.6	0	59	59.0	70	N	-	-	55.4	Y	N	N
A1-5a-46	4	46.7	A1-5a	-	3.6	0	4.2	52.4	57.6	45.9	0	59	59.0	70	N	-	-	55.4	Y	N	N
A1-5a-46	5	50	A1-5a	-	3.7	0	4.3	52.5	57.6	46.1	0	59	59.0	70	N	-	-	55.3	Y	N	N
A1-5a-46	6	53.3	A1-5a	-	3.7	0	4.2	52.7	57.5	46.3	0	59	59.0	70	N	-	-	55.3	Y	N	N
A1-5a-46	7	56.6	A1-5a	-	3.7	0	4.2	52.8	57.5	46.5	0	59	59.0	70	N	-	-	55.3	Y	N	N
A1-5a-46	8	59.9	A1-5a	-	3.7	0	4.3	52.8	57.6	46.8	0	59.1	59.1	70	N	-	-	55.4	Y	N	N
A1-5a-46	9	63.2	A1-5a	-	3.6	0	4.3	52.8	57.8	47.1	0	59.3	59.3	70	N	-	-	55.7	Y	N	N
A1-5a-46	10	66.5	A1-5a	-	3.6	0	4.2	52.8	57.8	47.3	0	59.3	59.3	70	N	-	-	55.7	Y	N	N
A1-5a-46	11	69.8	A1-5a	-	3.6	0	4.2	52.8	57.8	47.7	0	59.3	59.3	70	N	-	-	55.7	Y	N	N
A1-5a-46	12	73.1	A1-5a	-	3.6	0	4.2	52.8	57.7	48	0	59.2	59.2	70	N	-	-	55.6	Y	N	N
A1-5a-46	13	76.4	A1-5a	-	3.6	0	4.1	52.8	57.5	48.3	0	59.2	59.2	70	N	-	-	55.6	Y	N	N
A1-5a-46	14	79.7	A1-5a	-	3.6	0	4.1	52.8	57.4	48.7	0	59.1	59.1	70	N	-	-	55.5	Y	N	N
A1-5a-46	15	83	A1-5a	-	3.9	0	4.1	52.8	57.3	49	0	59.1	59.1	70	N	-	-	55.2	Y	N	N
A1-5a-46	16	86.3	A1-5a	-	5.1	0	4.1	52.7	57.2	49.5	0	59	59.0	70	N	-	-	53.9	Y	N	N
A1-5a-46	17	89.6	A1-5a	-	6.3	0	4	52.7	57.1	49.9	0	59	59.0	70	N	-	-	52.7	Y	N	N
A1-5a-46	18	92.9	A1-5a	-	7.7	0	4	52.8	57	50.3	0	59	59.0	70	N	-	-	51.3	Y	N	N
A1-5a-46	19	96.2	A1-5a	-	9.1	0	4	52.8	56.9	50.7	0	59	59.0	70	N	-	-	49.9	Y	N	N
A1-5a-46	20	99.5	A1-5a	-	10.7	0	3.9	52.8	56.8	51.1	0	59	59.0	70	N	-	-	48.3	Y	N	N
A1-5a-46	21	102.8	A1-5a	-	12.3	0	4.5	52.8	56.6	51.5	0	59	59.0	70	N	-	-	46.7	Y	N	N
A1-5a-46	22	106.1	A1-5a	-	13.9	0	6.6	52.8	56.5	51.8	0	59	59.0	70	N	-	-	45.1	Y	N	N
A1-5a-46	23	109.4	A1-5a	-	15.8	0	8.5	52.8	56.4	52.3	0	59	59.0	70	N	-	-	43.2	Y	N	N
A1-5a-46	24	112.7	A1-5a	-	17.7	0	10.6	52.9	56.3	52.6	0	59.1	59.1	70	N	-	-	41.4	Y	N	N
A1-5a-46	25	116	A1-5a	-	19.9	0	12.9	53.1	56.2	53.1	0	59.2	59.2	70	N	-	-	39.3	Y	N	N
A1-6-1	1	36.2	A1-6	-	19.9	0	24	56.8	64.2	45.1	0	65	65.0	70	N	-	-	45.1	Y	N	N
A1-6-1	2	39.4	A1-6	-	20.5	0	24.5	59.2	65.9	45.6	0	66.8	66.8	70	N	-	-	46.3	Y	N	N
A1-6-1	3	42.6	A1-6	-	21.1	0	24.9	59.1	65.7	46.2	0	66.6	66.6	70	N	-	-	45.5	Y	N	N
A1-6-1	4	45.8	A1-6	-	21.8	0	25.4	58.9	65.5	46.8	0	66.4	66.4	70	N	-	-	44.6	Y	N	N
A1-6-1	5	49	A1-6	-	22.7	0	25.9	58.8	65.2	47.5	0	66.2	66.2	70	N	-	-	43.5	Y	N	N
A1-6-1	6	52.2	A1-6	-	23.6	0	26.6	58.7	65	48.2	0	66	66.0	70	N	-	-	42.4	Y	N	N
A1-6-1	7	55.4	A1-6	-	24.7	0	27.2	58.5	64.8	48.9	0	65.8	65.8	70	N	-	-	41.1	Y	N	N
A1-6-1	8	58.6	A1-6	-	25.9	0	27.9	58.4	64.5	49.6	0	65.6	65.6	70	N	-	-	39.7	Y	N	N
A1-6-1	9	61.8	A1-6	-	27.2	0	28.6	58.3	64.3	50.4	0	65.4	65.4	70	N	-	-	38.2	Y	N	N
A1-6-1	10	65	A1-6	-	28.6	0	29.5	58.3	64.1	51.2	0	65.3	65.3	70	N	-	-	36.7	Y	N	N
A1-6-1	11	68.2	A1-6	-	30.4	0	30.2	58.4	63.9	52.1	0	65.2	65.2	70	N	-	-	34.8	Y	N	N
A1-6-1	12	71.4	A1-6	-	32.6	0	31.1	58.3	63.7	53.1	0	65.1	65.1	70	N	-	-	32.5	Y	N	N
A1-6-1	13	74.6	A1-6	-	35.2	0	32	58.3	63.5	54.2	0	65	65.0	70	N	-	-	29.8	Y	N	N
A1-6-1	14	77.8	A1-6	-	37.8	0	33.1	58.3	63.3	55.2	0	65	65.0	70	N	-	-	27.2	Y	N	N
A1-6-1	15	81	A1-6	-	39.2	0	34.2	58.3	63.1	56.3	0	65	65.0	70	N	-	-	25.8	Y	N	N
A1-6-1	16	84.2	A1-6	-	39.8	0	35.7	58.3	63	57.2	0	65	65.1	70	N	-	-	25.3	Y	N	N
A1-6-1	17	87.4	A1-6	-	40	0	36.8	58.2	62.8	58	0	65.1	65.1	70	N	-	-	25.1	Y	N	N
A1-6-1	18	90.6	A1-6	-	40.1	0	38.1	58.2	62.6	58.7	0	65.1	65.1	70	N	-	-	25.0	Y	N	N
A1-6-1	19	93.8	A1-6	-	40.1	0	39.1	58.2	62.5	59.3	0	65.2	65.2	70	N	-	-	25.1	Y	N	N
A1-6-1	20	97	A1-6	-	40.1	0	39.6	58.2	62.3	59.8	0	65.2	65.2	70	N	-	-	25.1	Y	N	N
A1-6-1	21	100.2	A1-6	-	40.1	0	39.9	58.2	62.2	60.3	0	65.3	65.3	70	N	-	-	25.2	Y	N	N
A1-6-1	22	103.4	A1-6	-	40.1	0	40.1	58.2	62	60.8	0	65.4	65.4	70	N	-	-	25.3	Y	N	N
A1-6-1	23	106.6	A1-6	-	40.1	0	40.3	58.2	61.9	61.3	0	65.5	65.6	70	N	-	-	25.5	Y	N	N
A1-6-1	24	109.8	A1-6	-	40	0	40.5	58.3	61.7	61.8	0	65.7	65.7	70	N	-	-	25.7	Y	N	N
A1-6-1	25	113	A1-6	-	40	0	40.6	58.3	61.6	62.3	0	65.8	65.8	70	N	-	-	25.8	Y	N	N
A1-6-1	26	116.2	A1-6	-	40	0	40.7	58.3	61.5	62.7	0	66	66.0	70	N	-	-	26.0	Y	N	N
A1-6-2	1	36.2	A1-6	-	10.5	0	35.1	66.5	65.2	53.2	0	69	69.0	70	N	-	-	58.5	Y	N	N
A1-6-2	2	39.4	A1-6	-	12	0	35.9	67.2	65.6	53.5	0	69.6	69.6	70	N	-	-	57.6	Y	N	N
A1-6-2	3	42.6	A1-6	-	13.5	0	36	67.2	65.4	54	0	69.5	69.5	70	N	-	-	56.0	Y	N	N
A1-6-2	4	45.8	A1-6	-	15	0	36.2	66.9	65.1	54.3	0	69.3	69.3	70	N	-	-	54.3	Y	N	N
A1-6-2	5	49	A1-6	-	16.5	0	36.3	66.7	64.9	54.8	0	69.1	69.1	70	N	-	-	52.6	Y	N	N
A1-6-2	6	52.2	A1-6	-	18.2	0	36.6	66.4	64.6	55.3	0	68.8	68.8	70	N	-	-	50.6	Y	N	N
A1-6-2	7	55.4	A1-6	-	20.2	0	36.8	66.2	64.4	55.8	0	68.7	68.7	70	N	-	-	48.5	Y	N	N
A1-6-2	8	58.6	A1-6	-	22.6	0	37	66	64.2	56.4	0	68.5	68.5	70	N	-	-	45.9	Y	N	N
A1-6-2	9	61.8	A1-6	-	25.2	0	37.3	65.8	64	56.9	0	68.3	68.3	70	N	-	-	43.1	Y	N	N
A1-6-2	10	65	A1-6	-	29.1	0	37.8	65.6	63.8	57.5	0	68.2	68.2	70	N	-	-	39.1	Y	N	N
A1-6-2	11	68.2	A1-6	-	32.7	0	38.3	65.4	63.6	58.2	0	68.1	68.1	70	N	-	-	35.4	Y	N	N
A1-6-2	12	71.4	A1-6	-	34.4	0	39	65.2	63.4	58.8	0	68	68.0	70	N	-	-	33.6	Y	N	N
A1-6-2	13	74.6	A1-6	-	35	0	40	65	63.2	59.4	0	67.9	67.9	70	N	-	-	32.9	Y	N	N
A1-6-2	14	77.8	A1-6	-	35.2	0	41	64.8	63	59.9	0	67.8	67.8	70	N	-	-	32.6	Y	N	N
A1-6-2	15	81	A1-6	-	35.2	0	41.9	64.7	62.8	60.5	0	67.8	67.8	70	N	-	-	32.6	Y	N	N
A1-6-2	16	84.2	A1-6	-	35.2	0	42.6	64.6	62.6	61.1	0	67.8	67.8	70	N	-	-	32.6	Y	N	N
A1-6-2	17	87.4	A1-6	-	35.1	0	43.1	64.4	62.5	61.8	0	67.8	67.9	70	N	-	-	32.8	Y	N	N
A1-6-2	18	90.6	A1-6	-	35.1	0	43.7	64.3	62.3	62.4	0	67.9	67.9	70	N	-	-	32.8	Y	N	N
A1-6-2	19	93.8	A1-6	-	35.1	0	44.1	64.2	62.2	63	0	68	68.0	70	N	-	-	32.9	Y	N	N
A1-6-2	20	97	A1-6	-	35	0	44.5	64.1	62	63.5	0	68.1	68.1	70	N	-	-	33.1	Y	N	N
A1-6-2	21	100.2	A1-6	-	35	0	44.6	63.9	61.9	64	0	68.1	68.1	70	N	-	-	33.1	Y	N	N
A1-6-2	22	103.4	A1-6	-	35	0	44.7	63.8	61.8	64.4	0	68.3	68.3	70	N	-	-	33.3	Y	N	N
A1-6-2	23	106.6	A1-6	-	35	0	44.9	63.7	61.7	64.9	0	68.4	68.4	70	N	-	-	33.4	Y	N	N
A1-6-2	24	109.8	A1-6	-	34.9	0	45	63.6	61.5	65.3	0	68.5	68.5	70	N	-	-	33.6	Y	N	N
A1-6-2	25	113	A1-6	-	34.9	0	45	63.5	61.4	65.8	0	68.7	68.7	70	N	-	-	33.8	Y	N	N
A1-6-2	26	116.2	A1-6	-	34.9	0	45.1	63.5	61.3	66	0	68.8	68.8	70	N	-	-	33.9	Y	N	N
A1-8-1	1	36.7	A1-8	-	10.9	0	33.5	55.1	45.4	50.2	0	56.7	56.7	70	N	-	-	45.8	Y	N	N
A1-8-1	2	39.5	A1-8	-	12.3	0	35.7	60.9	51.2	50.9	0	61.7	61.7	70	N	-	-	49.4	Y	N	N
A1-8-1	3	42.3	A1-8	-	13.8	0	36.3	64.9	56.1	51.5	0	65.7	65.7	70	N	-	-	51.9	Y	N	N
A1-8-1	4	45.1	A1-8	-	15.3	0	36.7	68.3	58.4	52.2	0	68.8	68.8	70	N	-	-	53.5	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	New Roads[2]					New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
A1-8-1	5	47.9	A1-8	-	17	0	37.2	69	58.6	53	0	69.5	69.5	70	N	-	-	52.5	Y	N	N
A1-8-1	6	50.7	A1-8	-	18.7	0	37.8	69.1	58.5	53.7	0	69.5	69.5	70	N	-	-	50.8	Y	N	N
A1-8-1	7	53.5	A1-8	-	20.6	0	38.9	68.9	58.3	54.5	0	69.4	69.4	70	N	-	-	48.8	Y	N	N
A1-8-1	8	56.3	A1-8	-	23	0	40.5	68.8	58.1	55.4	0	69.4	69.4	70	N	-	-	46.4	Y	N	N
A1-8-1	9	59.1	A1-8	-	26.4	0	43	68.6	57.9	56.2	0	69.2	69.2	70	N	-	-	42.8	Y	N	N
A1-8-1	10	61.9	A1-8	-	30.4	0	44.9	68.5	57.7	57	0	69.1	69.1	70	N	-	-	38.7	Y	N	N
A1-8-1	11	64.7	A1-8	-	33.6	0	45.5	68.3	57.6	57.8	0	69	69.0	70	N	-	-	35.4	Y	N	N
A1-8-1	12	67.5	A1-8	-	34.3	0	45.9	68.2	57.4	58.6	0	69	69.0	70	N	-	-	34.7	Y	N	N
A1-8-1	13	70.3	A1-8	-	34.6	0	46.3	68	57.2	59.3	0	68.9	68.9	70	N	-	-	34.3	Y	N	N
A1-8-1	14	73.1	A1-8	-	34.6	0	46.6	67.9	57.1	59.9	0	68.9	68.9	70	N	-	-	34.3	Y	N	N
A1-8-1	15	75.9	A1-8	-	34.6	0	46.8	67.8	56.9	60.5	0	68.8	68.8	70	N	-	-	34.2	Y	N	N
A1-8-1	16	78.7	A1-8	-	34.5	0	47.1	67.7	56.8	61.1	0	68.9	68.9	70	N	-	-	34.4	Y	N	N
A1-8-1	17	81.5	A1-8	-	34.5	0	47.4	67.6	56.6	61.7	0	68.9	68.9	70	N	-	-	34.4	Y	N	N
A1-8-1	18	84.3	A1-8	-	34.5	0	47.6	67.5	56.5	62.2	0	68.9	68.9	70	N	-	-	34.4	Y	N	N
A1-8-1	19	87.1	A1-8	-	34.5	0	47.8	67.3	56.3	62.8	0	68.9	68.9	70	N	-	-	34.4	Y	N	N
A1-8-1	20	89.9	A1-8	-	34.5	0	47.9	67.3	56.3	63.4	0	69	69.0	70	N	-	-	34.5	Y	N	N
A1-8-1	21	92.7	A1-8	-	34.5	0	48.1	67.2	56.1	63.8	0	69.1	69.1	70	N	-	-	34.6	Y	N	N
A1-8-1	22	95.5	A1-8	-	34.4	0	48.1	67.1	56	64.1	0	69.1	69.1	70	N	-	-	34.7	Y	N	N
A1-8-1	23	98.3	A1-8	-	34.4	0	48.1	67	55.9	64.5	0	69.2	69.2	70	N	-	-	34.8	Y	N	N
A1-8-1	24	101.1	A1-8	-	34.4	0	48.2	66.9	55.8	64.8	0	69.2	69.2	70	N	-	-	34.8	Y	N	N
A1-8-1	25	103.9	A1-8	-	34.4	0	48.2	66.8	55.7	65.2	0	69.3	69.3	70	N	-	-	34.9	Y	N	N
A1-8-1	26	106.7	A1-8	-	34.4	0	48.2	66.8	55.6	65.4	0	69.4	69.4	70	N	-	-	35.0	Y	N	N
A1-8-1	27	109.5	A1-8	-	34.3	0	48.3	66.7	55.4	65.8	0	69.5	69.5	70	N	-	-	35.2	Y	N	N
A1-8-1	28	112.3	A1-8	-	34.3	0	48.3	66.6	55.3	66.2	0	69.6	69.6	70	N	-	-	35.3	Y	N	N
A1-8-1	29	115.1	A1-8	-	34.3	0	48.3	66.5	55.2	66.4	0	69.7	69.7	70	N	-	-	35.4	Y	N	N
A1-8-1	30	117.9	A1-8	-	34.3	0	48.3	66.4	55.1	66.7	0	69.8	69.8	70	N	-	-	35.5	Y	N	N
A1-8-1	31	120.7	A1-8	-	34.3	0	48.3	66.4	55	67	0	69.9	69.9	70	N	-	-	35.6	Y	N	N
A1-8-1	32	123.5	A1-8	-	34.2	0	48.4	66.3	54.9	67.1	0	69.9	69.9	70	N	-	-	35.7	Y	N	N
A1-8-1	33	126.3	A1-8	-	34.2	0	48.4	66.2	54.8	67.3	0	70	70.0	70	N	-	-	35.8	Y	N	N
A1-8-1	34	129.1	A1-8	-	34.2	0	48.5	66.2	54.7	67.6	0	70.1	70.1	70	N	-	-	35.9	Y	N	N
A1-8-2	1	36.7	A1-8	-	26	0	30.6	55.7	41.1	54.4	0	58.2	58.2	70	N	-	-	32.2	Y	N	N
A1-8-2	2	39.5	A1-8	-	27.5	0	31.6	60.4	46.6	54.8	0	61.6	61.6	70	N	-	-	34.1	Y	N	N
A1-8-2	3	42.3	A1-8	-	29.2	0	32.8	65.1	51.7	55.2	0	65.7	65.7	70	N	-	-	36.5	Y	N	N
A1-8-2	4	45.1	A1-8	-	30.6	0	34	68.5	53.3	55.6	0	68.8	68.8	70	N	-	-	38.2	Y	N	N
A1-8-2	5	47.9	A1-8	-	31.4	0	35.4	69.1	53.5	56	0	69.5	69.5	70	N	-	-	38.1	Y	N	N
A1-8-2	6	50.7	A1-8	-	31.9	0	37.2	69.3	53.3	56.5	0	69.6	69.6	70	N	-	-	37.7	Y	N	N
A1-8-2	7	53.5	A1-8	-	32.1	0	39.4	69.1	53.1	57	0	69.5	69.5	70	N	-	-	37.4	Y	N	N
A1-8-2	8	56.3	A1-8	-	32.3	0	42.3	68.9	53	57.5	0	69.3	69.3	70	N	-	-	37.0	Y	N	N
A1-8-2	9	59.1	A1-8	-	32.4	0	44.7	68.7	52.8	58.1	0	69.2	69.2	70	N	-	-	36.8	Y	N	N
A1-8-2	10	61.9	A1-8	-	32.4	0	45.9	68.6	52.7	58.7	0	69.1	69.1	70	N	-	-	36.7	Y	N	N
A1-8-2	11	64.7	A1-8	-	32.5	0	46.7	68.5	52.6	59.4	0	69.1	69.1	70	N	-	-	36.6	Y	N	N
A1-8-2	12	67.5	A1-8	-	32.5	0	47.3	68.3	52.4	60.2	0	69	69.0	70	N	-	-	36.5	Y	N	N
A1-8-2	13	70.3	A1-8	-	32.5	0	47.7	68.2	52.3	60.9	0	69.1	69.1	70	N	-	-	36.6	Y	N	N
A1-8-2	14	73.1	A1-8	-	32.4	0	48	68	52.2	61.5	0	69	69.0	70	N	-	-	36.6	Y	N	N
A1-8-2	15	75.9	A1-8	-	32.4	0	48.2	67.9	52.1	62.2	0	69	69.0	70	N	-	-	36.6	Y	N	N
A1-8-2	16	78.7	A1-8	-	32.4	0	48.4	67.8	52.1	62.7	0	69.1	69.1	70	N	-	-	36.7	Y	N	N
A1-8-2	17	81.5	A1-8	-	32.4	0	48.5	67.7	52	63.3	0	69.1	69.1	70	N	-	-	36.7	Y	N	N
A1-8-2	18	84.3	A1-8	-	32.4	0	48.7	67.5	51.9	63.8	0	69.1	69.2	70	N	-	-	36.8	Y	N	N
A1-8-2	19	87.1	A1-8	-	32.4	0	48.8	67.4	51.9	64.2	0	69.2	69.2	70	N	-	-	36.8	Y	N	N
A1-8-2	20	89.9	A1-8	-	32.4	0	48.9	67.3	51.8	64.5	0	69.3	69.3	70	N	-	-	36.9	Y	N	N
A1-8-2	21	92.7	A1-8	-	32.4	0	49.1	67.2	51.7	64.9	0	69.3	69.3	70	N	-	-	36.9	Y	N	N
A1-8-2	22	95.5	A1-8	-	32.4	0	49.3	67.1	51.7	65.1	0	69.4	69.4	70	N	-	-	37.0	Y	N	N
A1-8-2	23	98.3	A1-8	-	32.3	0	49.4	67	51.6	65.4	0	69.4	69.4	70	N	-	-	37.1	Y	N	N
A1-8-2	24	101.1	A1-8	-	32.3	0	49.5	67	51.5	65.7	0	69.5	69.5	70	N	-	-	37.2	Y	N	N
A1-8-2	25	103.9	A1-8	-	32.3	0	49.6	66.8	51.5	65.9	0	69.5	69.5	70	N	-	-	37.2	Y	N	N
A1-8-2	26	106.7	A1-8	-	32.3	0	49.8	66.8	51.5	66.2	0	69.6	69.6	70	N	-	-	37.3	Y	N	N
A1-8-2	27	109.5	A1-8	-	32.3	0	49.9	66.7	51.6	66.5	0	69.7	69.7	70	N	-	-	37.4	Y	N	N
A1-8-2	28	112.3	A1-8	-	32.3	0	50.1	66.6	51.6	66.8	0	69.9	69.9	70	N	-	-	37.6	Y	N	N
A1-8-2	29	115.1	A1-8	-	32.3	0	50.1	66.6	51.7	67.1	0	70	70.0	70	N	-	-	37.7	Y	N	N
A1-8-2	30	117.9	A1-8	-	32.2	0	50.3	66.5	51.7	67.4	0	70.1	70.1	70	N	-	-	37.9	Y	N	N
A1-8-2	31	120.7	A1-8	-	32.2	0	50.5	66.4	51.8	67.6	0	70.1	70.1	70	N	-	-	37.9	Y	N	N
A1-8-2	32	123.5	A1-8	-	32.3	0	50.6	66.3	51.8	67.7	0	70.2	70.2	70	N	-	-	37.9	Y	N	N
A1-8-2	33	126.3	A1-8	-	32.3	0	50.7	66.3	51.8	68	0	70.3	70.3	70	N	-	-	38.0	Y	N	N
A1-8-2	34	129.1	A1-8	-	32.3	0	50.8	66.2	51.7	68.2	0	70.4	70.4	70	N	-	-	38.1	Y	N	N
A1-8-3	1	36.7	A1-8	-	24.8	0	29.9	54.5	42.5	54.4	0	57.6	57.6	70	N	-	-	32.8	Y	N	N
A1-8-3	2	39.5	A1-8	-	26.8	0	30.8	60.5	45.7	54.9	0	61.6	61.6	70	N	-	-	34.8	Y	N	N
A1-8-3	3	42.3	A1-8	-	27.8	0	31.8	63.3	45.8	55.2	0	64	64.0	70	N	-	-	36.2	Y	N	N
A1-8-3	4	45.1	A1-8	-	29.3	0	32.9	64.4	45.8	55.6	0	65	65.0	70	N	-	-	35.7	Y	N	N
A1-8-3	5	47.9	A1-8	-	30.3	0	34.1	64.6	45.8	55.9	0	65.2	65.2	70	N	-	-	34.9	Y	N	N
A1-8-3	6	50.7	A1-8	-	30.8	0	35.5	64.7	45.8	56.3	0	65.4	65.4	70	N	-	-	34.6	Y	N	N
A1-8-3	7	53.5	A1-8	-	31.2	0	37.1	65.1	45.8	56.8	0	65.8	65.8	70	N	-	-	34.6	Y	N	N
A1-8-3	8	56.3	A1-8	-	31.3	0	39.4	65.8	45.8	57.2	0	66.4	66.4	70	N	-	-	35.1	Y	N	N
A1-8-3	9	59.1	A1-8	-	31.4	0	41.9	66.2	45.8	57.7	0	66.8	66.8	70	N	-	-	35.4	Y	N	N
A1-8-3	10	61.9	A1-8	-	31.5	0	43.8	66.3	45.9	58.3	0	67	67.0	70	N	-	-	35.5	Y	N	N
A1-8-3	11	64.7	A1-8	-	31.6	0	44.9	66.3	45.9	59	0	67.1	67.1	70	N	-	-	35.5	Y	N	N
A1-8-3	12	67.5	A1-8	-	31.6	0	45.5	66.1	45.9	59.7	0	67.1	67.1	70	N	-	-	35.5	Y	N	N
A1-8-3	13	70.3	A1-8	-	31.6	0	45.9	66	45.9	60.3	0	67.1	67.1	70	N	-	-	35.5	Y	N	N
A1-8-3	14	73.1	A1-8	-	31.6	0	46.1	65.9	45.9	60.9	0	67.2	67.2	70	N	-	-	35.6	Y	N	N
A1-8-3	15	75.9	A1-8	-	31.6	0	46.3	65.8	46	61.5	0	67.2	67.2	70	N	-	-	35.6	Y	N	N
A1-8-3	16	78.7	A1-8	-	31.6	0	46.5	65.7	46.2	62.1	0	67.3	67.4	70	N	-	-	35.8	Y	N	N
A1-8-3	17	81.5	A1-8	-	31.6	0	46.6	65.6	46.3	62.6	0	67.4	67.5	70	N	-	-	35.9	Y	N	N
A1-8-3	18	84.3	A1-8	-	31.6	0	46.8	65.5	46.4	63	0	67.5	67.5	70	N	-	-	35.9	Y	N	N
A1-8-3	19	87.1	A1-8	-	31.6	0	47	65.3	46.5	63.4	0	67.6	67.6	70	N	-	-	36.0	Y	N	N
A1-8-3	20	89.9	A1-8	-	31.5	0	47.3	65.2	46.5	63.7	0	67.6	67.6	70	N	-	-	36.1	Y	N	N
A1-8-3	21	92.7	A1-8	-	31.5	0	47.6	65.2	46.6	64.1	0	67.7	67.7	70	N	-	-	36.2	Y	N	N
A1-8-3	22	95.5	A1-8	-	31.5	0	48	65.1	46.7	64.4	0	67.8	67.8	70	N	-	-	36.3	Y	N	N
A1-8-3	23	98.3	A1-8	-	31.5	0	48.2	65	46.8	64.6	0	67.9	67.9	70	N	-	-	36.4	Y	N	N
A1-8-3	24	101.1	A1-8	-	31.5	0	48.5	64.9	46.9	64.9	0	68	68.0	70	N	-	-	36.5	Y	N	N
A1-8-3	25	103.9	A1-8	-	31.5	0	48.6	64.8	47.2	65.1	0	68.1	68.1	70	N	-	-	36.6	Y	N	N
A1-8-3	26	106.7	A1-8	-	31.5	0	48.9	64.8	47.5	65.3	0	68.2	68.2	70	N	-	-	36.7	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	New Roads[2]					New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
A1-8-3	27	109.5	A1-8	-	31.5	0	49	64.7	47.7	65.6	0	68.3	68.3	70	N	-	-	36.8	Y	N	N
A1-8-3	28	112.3	A1-8	-	31.4	0	49.1	64.6	47.8	65.8	0	68.4	68.4	70	N	-	-	37.0	Y	N	N
A1-8-3	29	115.1	A1-8	-	31.4	0	49.3	64.6	48	66.1	0	68.5	68.5	70	N	-	-	37.1	Y	N	N
A1-8-3	30	117.9	A1-8	-	31.4	0	49.5	64.5	48.1	66.4	0	68.6	68.6	70	N	-	-	37.2	Y	N	N
A1-8-3	31	120.7	A1-8	-	31.4	0	49.6	64.4	48.1	66.6	0	68.8	68.8	70	N	-	-	37.4	Y	N	N
A1-8-3	32	123.5	A1-8	-	31.4	0	49.8	64.3	48.2	66.8	0	68.9	68.9	70	N	-	-	37.5	Y	N	N
A1-8-3	33	126.3	A1-8	-	31.4	0	50	64.3	48.3	66.9	0	68.9	68.9	70	N	-	-	37.5	Y	N	N
A1-8-3	34	129.1	A1-8	-	31.3	0	50.2	64.2	48.3	67.1	0	69	69.0	70	N	-	-	37.7	Y	N	N
A1-9a-1	1	14.7	A1-9a	-	8.9	0	13.3	69	33.9	53.4	0	69.1	69.1	70	N	-	-	60.2	Y	N	N
A1-9a-1	2	17.9	A1-9a	-	9	0	13.3	68.9	33.9	53.6	0	69	69.0	70	N	-	-	60.0	Y	N	N
A1-9a-1	3	21.1	A1-9a	-	9.2	0	13.3	68.8	33.9	53.9	0	69	69.0	70	N	-	-	59.8	Y	N	N
A1-9a-1	4	24.3	A1-9a	-	9.4	0	13.3	68.7	34	54.2	0	68.9	68.9	70	N	-	-	59.5	Y	N	N
A1-9a-1	5	27.5	A1-9a	-	10.1	0	13.3	68.6	34.3	54.4	0	68.7	68.7	70	N	-	-	58.6	Y	N	N
A1-9a-1	6	30.7	A1-9a	-	11.4	0	13.4	68.4	34.7	54.7	0	68.6	68.6	70	N	-	-	57.2	Y	N	N
A1-9a-1	7	33.9	A1-9a	-	12.7	0	13.4	68.3	35.4	55	0	68.5	68.5	70	N	-	-	55.8	Y	N	N
A1-9a-1	8	37.1	A1-9a	-	14.2	0	13.4	68.2	36.6	55.2	0	68.4	68.4	70	N	-	-	54.2	Y	N	N
A1-9a-1	9	40.3	A1-9a	-	15.6	0	13.4	68	38.6	55.5	0	68.2	68.2	70	N	-	-	52.6	Y	N	N
A1-9a-1	10	43.5	A1-9a	-	17.1	0	13.4	67.8	41.9	55.8	0	68.1	68.1	70	N	-	-	51.0	Y	N	N
A1-9a-1	11	46.7	A1-9a	-	18.6	0	13.4	67.6	46.5	56.1	0	67.9	67.9	70	N	-	-	49.3	Y	N	N
A1-9a-1	12	49.9	A1-9a	-	20.3	0	13.4	67.4	49.3	56.3	0	67.8	67.8	70	N	-	-	47.5	Y	N	N
A1-9a-1	13	53.1	A1-9a	-	22.2	0	13.4	67.3	49.7	56.7	0	67.7	67.7	70	N	-	-	45.5	Y	N	N
A1-9a-1	14	56.3	A1-9a	-	24.3	0	13.4	67.2	49.7	56.9	0	67.6	67.6	70	N	-	-	43.3	Y	N	N
A1-9a-1	15	59.5	A1-9a	-	26.9	0	13.5	67	49.5	57.3	0	67.5	67.5	70	N	-	-	40.6	Y	N	N
A1-9a-1	16	62.7	A1-9a	-	30.4	0	13.5	66.8	49.3	57.6	0	67.4	67.4	70	N	-	-	37.0	Y	N	N
A1-9a-1	17	65.9	A1-9a	-	34.6	0	13.5	66.6	49.1	58	0	67.3	67.3	70	N	-	-	32.7	Y	N	N
A1-9a-1	18	69.1	A1-9a	-	36.9	0	13.5	66.5	49	58.3	0	67.2	67.2	70	N	-	-	30.3	Y	N	N
A1-9a-2	1	14.7	A1-9a	-	11.7	0	23.7	72.7	52.7	53.4	0	72.8	72.8	70	Y	-	-	61.1	Y	Y	Y
A1-9a-2	2	17.9	A1-9a	-	11.8	0	24.3	72.5	52.6	53.7	0	72.6	72.6	70	Y	-	-	60.8	Y	Y	Y
A1-9a-2	3	21.1	A1-9a	-	11.9	0	25.2	72.3	52.5	54	0	72.4	72.4	70	Y	-	-	60.5	Y	Y	Y
A1-9a-2	4	24.3	A1-9a	-	12.1	0	26.3	72	52.4	54.3	0	72.1	72.1	70	Y	-	-	60.0	Y	Y	Y
A1-9a-2	5	27.5	A1-9a	-	12.8	0	27.5	71.6	52.2	54.6	0	71.8	71.8	70	Y	-	-	59.0	Y	Y	Y
A1-9a-2	6	30.7	A1-9a	-	14	0	28.8	71.3	52.1	55	0	71.5	71.5	70	Y	-	-	57.5	Y	Y	Y
A1-9a-2	7	33.9	A1-9a	-	15.4	0	30.1	71	51.9	55.4	0	71.2	71.2	70	Y	-	-	55.8	Y	Y	Y
A1-9a-2	8	37.1	A1-9a	-	17.1	0	31.5	70.8	51.8	55.8	0	70.9	70.9	70	Y	-	-	53.8	Y	Y	Y
A1-9a-2	9	40.3	A1-9a	-	18.8	0	33	70.4	51.6	56.3	0	70.6	70.6	70	Y	-	-	51.8	Y	Y	Y
A1-9a-2	10	43.5	A1-9a	-	20.3	0	34.5	70.1	51.5	56.8	0	70.4	70.4	70	N	-	-	50.1	Y	N	N
A1-9a-2	11	46.7	A1-9a	-	22.1	0	36.3	69.9	51.4	57.4	0	70.2	70.2	70	N	-	-	48.1	Y	N	N
A1-9a-2	12	49.9	A1-9a	-	24.1	0	38.2	69.7	51.3	58.1	0	70	70.0	70	N	-	-	45.9	Y	N	N
A1-9a-2	13	53.1	A1-9a	-	26.3	0	40.9	69.4	51.1	58.9	0	69.8	69.8	70	N	-	-	43.5	Y	N	N
A1-9a-2	14	56.3	A1-9a	-	29.2	0	43.9	69.2	51.1	59.9	0	69.7	69.7	70	N	-	-	40.5	Y	N	N
A1-9a-2	15	59.5	A1-9a	-	33	0	45.9	69	51.1	60.9	0	69.7	69.7	70	N	-	-	36.7	Y	N	N
A1-9a-2	16	62.7	A1-9a	-	37.2	0	47.3	68.8	51	61.9	0	69.7	69.7	70	N	-	-	32.5	Y	N	N
A1-9a-2	17	65.9	A1-9a	-	39.5	0	47.9	68.6	51.2	62.8	0	69.7	69.7	70	N	-	-	30.2	Y	N	N
A1-9a-2	18	69.1	A1-9a	-	40	0	48.3	68.4	51.4	63.5	0	69.7	69.7	70	N	-	-	29.7	Y	N	N
A1-9a-3	1	14.7	A1-9a	-	12.2	0	25.2	70.4	55.2	49	0	70.6	70.6	70	Y	-	-	58.4	Y	Y	Y
A1-9a-3	2	17.9	A1-9a	-	12.4	0	25.7	70.3	55.2	49.4	0	70.4	70.4	70	N	-	-	58.0	Y	N	N
A1-9a-3	3	21.1	A1-9a	-	12.6	0	26.5	70.1	55.2	49.9	0	70.3	70.3	70	N	-	-	57.7	Y	N	N
A1-9a-3	4	24.3	A1-9a	-	13.2	0	27.6	69.9	55.2	50.4	0	70.1	70.1	70	N	-	-	56.9	Y	N	N
A1-9a-3	5	27.5	A1-9a	-	14.3	0	28.8	69.6	55.1	51	0	69.9	69.9	70	N	-	-	55.6	Y	N	N
A1-9a-3	6	30.7	A1-9a	-	15.6	0	30.2	69.4	55.1	51.7	0	69.6	69.6	70	N	-	-	54.0	Y	N	N
A1-9a-3	7	33.9	A1-9a	-	17	0	31.7	69.1	55	52.4	0	69.4	69.4	70	N	-	-	52.4	Y	N	N
A1-9a-3	8	37.1	A1-9a	-	18.7	0	33.2	68.9	55	53.2	0	69.2	69.2	70	N	-	-	50.5	Y	N	N
A1-9a-3	9	40.3	A1-9a	-	20.6	0	34.7	68.6	54.9	54	0	69	69.0	70	N	-	-	48.4	Y	N	N
A1-9a-3	10	43.5	A1-9a	-	22.7	0	36.2	68.4	55	54.9	0	68.8	68.8	70	N	-	-	46.1	Y	N	N
A1-9a-3	11	46.7	A1-9a	-	24.8	0	37.8	68.1	54.9	55.9	0	68.6	68.6	70	N	-	-	43.8	Y	N	N
A1-9a-3	12	49.9	A1-9a	-	27.5	0	39.7	67.9	55	56.9	0	68.5	68.5	70	N	-	-	41.0	Y	N	N
A1-9a-3	13	53.1	A1-9a	-	31.1	0	42.2	67.7	55.1	58.1	0	68.4	68.4	70	N	-	-	37.3	Y	N	N
A1-9a-3	14	56.3	A1-9a	-	36.4	0	45.3	67.5	55.4	59.4	0	68.4	68.4	70	N	-	-	32.0	Y	N	N
A1-9a-3	15	59.5	A1-9a	-	39.4	0	47.7	67.3	56	61.1	0	68.5	68.5	70	N	-	-	29.1	Y	N	N
A1-9a-3	16	62.7	A1-9a	-	39.9	0	48.9	67.2	56.8	62.6	0	68.8	68.8	70	N	-	-	28.9	Y	N	N
A1-9a-3	17	65.9	A1-9a	-	40	0	49.5	67	57.4	63.4	0	69	69.0	70	N	-	-	29.0	Y	N	N
A1-9a-3	18	69.1	A1-9a	-	40	0	49.6	66.9	57.7	64	0	69.1	69.1	70	N	-	-	29.1	Y	N	N
A1-9a-4	1	14.7	A1-9a	-	11	0	35.8	70.5	61.3	47.4	0	71	71.0	70	Y	-	-	60.0	Y	Y	Y
A1-9a-4	2	17.9	A1-9a	-	11	0	35.9	70.4	61.3	48	0	70.9	70.9	70	Y	-	-	59.9	Y	Y	Y
A1-9a-4	3	21.1	A1-9a	-	11.5	0	36.1	70.2	61.2	48.5	0	70.7	70.7	70	Y	-	-	59.2	Y	Y	Y
A1-9a-4	4	24.3	A1-9a	-	12.4	0	36.4	70	61.1	49.2	0	70.5	70.5	70	Y	-	-	58.1	Y	Y	Y
A1-9a-4	5	27.5	A1-9a	-	13.6	0	36.6	69.7	61	49.9	0	70.3	70.3	70	N	-	-	56.7	Y	N	N
A1-9a-4	6	30.7	A1-9a	-	14.9	0	36.9	69.5	60.9	50.7	0	70.1	70.1	70	N	-	-	55.2	Y	N	N
A1-9a-4	7	33.9	A1-9a	-	16.5	0	37.1	69.2	60.8	51.5	0	69.9	69.9	70	N	-	-	53.4	Y	N	N
A1-9a-4	8	37.1	A1-9a	-	18.3	0	37.6	69	60.6	52.4	0	69.7	69.7	70	N	-	-	51.4	Y	N	N
A1-9a-4	9	40.3	A1-9a	-	20.2	0	38	68.7	60.5	53.4	0	69.4	69.4	70	N	-	-	49.2	Y	N	N
A1-9a-4	10	43.5	A1-9a	-	22.5	0	38.5	68.5	60.4	54.4	0	69.3	69.3	70	N	-	-	46.8	Y	N	N
A1-9a-4	11	46.7	A1-9a	-	24.8	0	39.2	68.3	60.2	55.4	0	69.1	69.1	70	N	-	-	44.3	Y	N	N
A1-9a-4	12	49.9	A1-9a	-	27.5	0	40.3	68.1	60.1	56.6	0	69	69.0	70	N	-	-	41.5	Y	N	N
A1-9a-4	13	53.1	A1-9a	-	31.2	0	42.1	67.8	60.1	57.8	0	68.9	68.9	70	N	-	-	37.7	Y	N	N
A1-9a-4	14	56.3	A1-9a	-	36.4	0	44.5	67.7	60.2	59.1	0	68.9	68.9	70	N	-	-	32.5	Y	N	N
A1-9a-4	15	59.5	A1-9a	-	39	0	45.6	67.5	60.5	60.8	0	69	69.0	70	N	-	-	30.0	Y	N	N
A1-9a-4	16	62.7	A1-9a	-	39.5	0	46.3	67.3	60.9	62.4	0	69.2	69.3	70	N	-	-	29.8	Y	N	N
A1-9a-4	17	65.9	A1-9a	-	39.6	0	46.9	67.1	61.1	63.4	0	69.4	69.4	70	N	-	-	29.8	Y	N	N
A1-9a-4	18	69.1	A1-9a	-	39.6	0	47.3	67	61.1	64.1	0	69.5	69.5	70	N	-	-	29.9	Y	N	N
A1-9a-5	1	14.7	A1-9a	-	12.2	0	48.2	67.3	67	51.6	0	70.3	70.3	70	N	-	-	58.1	Y	N	N
A1-9a-5	2	17.9	A1-9a	-	12.5	0	48.2	67.3	66.9	51.7	0	70.2	70.2	70	N	-	-	57.7	Y	N	N
A1-9a-5	3	21.1	A1-9a	-	13.2	0	48.2	67.2	66.7	51.8	0	70.1	70.1	70	N	-	-	56.9	Y	N	N
A1-9a-5	4	24.3	A1-9a	-	14	0	48.2	67.1	66.5	51.9	0	69.9	69.9	70	N	-	-	55.9	Y	N	N
A1-9a-5	5	27.5	A1-9a	-	14.9	0	48.2	66.9	66.3	52	0	69.7	69.7	70	N	-	-	54.8	Y	N	N
A1-9a-5	6	30.7	A1-9a	-	16	0	48.2	66.8	66	52.2	0	69.5	69.5	70	N	-	-	53.5	Y	N	N
A1-9a-5	7	33.9	A1-9a	-	17.4	0	48.2	66.6	65.8	52.4	0	69.3	69.3	70	N	-	-	51.9	Y	N	N
A1-9a-5	8	37.1	A1-9a	-	18.8	0	48.2	66.5	65.5	52.6	0	69.2	69.2	70	N	-	-	50.4	Y	N	N
A1-9a-5	9	40.3	A1-9a	-	20.5	0	48.3	66.3	65.3	52.9	0	69	69.0	70	N	-	-	48.5	Y	N	N
A1-9a-5	10	43.5	A1-9a	-	22.4	0	48.3	66.1	65	53.2	0	68.8	68.8	70	N	-	-	46.4	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
A1-9a-5	11	46.7	A1-9a	-	24.6	0	48.4	65.9	64.8	53.5	0	68.6	68.6	70	N	-	-	44.0	Y	N	N
A1-9a-5	12	49.9	A1-9a	-	27.2	0	48.5	65.8	64.6	53.9	0	68.4	68.4	70	N	-	-	41.2	Y	N	N
A1-9a-5	13	53.1	A1-9a	-	30.5	0	48.6	65.6	64.4	54.6	0	68.3	68.3	70	N	-	-	37.8	Y	N	N
A1-9a-5	14	56.3	A1-9a	-	35	0	48.7	65.4	64.2	55.3	0	68.2	68.2	70	N	-	-	33.2	Y	N	N
A1-9a-5	15	59.5	A1-9a	-	38.3	0	48.9	65.3	64.1	56.6	0	68.1	68.1	70	N	-	-	29.8	Y	N	N
A1-9a-5	16	62.7	A1-9a	-	39.1	0	49	65.1	64.1	57.9	0	68.1	68.1	70	N	-	-	29.0	Y	N	N
A1-9a-5	17	65.9	A1-9a	-	39.3	0	49.3	64.9	64	59	0	68.1	68.1	70	N	-	-	28.8	Y	N	N
A1-9a-5	18	69.1	A1-9a	-	39.3	0	49.5	64.8	63.9	59.9	0	68.1	68.1	70	N	-	-	28.8	Y	N	N
A1-9a-6	1	14.7	A1-9a	-	11.4	0	49.8	57.4	68.5	28.8	0	68.9	68.9	70	N	-	-	57.5	Y	N	N
A1-9a-6	2	17.9	A1-9a	-	11.4	0	49.8	57.4	68.3	28.9	0	68.7	68.7	70	N	-	-	57.3	Y	N	N
A1-9a-6	3	21.1	A1-9a	-	11.5	0	49.8	57.4	68.1	29	0	68.5	68.5	70	N	-	-	57.0	Y	N	N
A1-9a-6	4	24.3	A1-9a	-	11.5	0	49.8	57.4	67.9	29.1	0	68.3	68.3	70	N	-	-	56.8	Y	N	N
A1-9a-6	5	27.5	A1-9a	-	11.5	0	49.8	57.4	67.6	29.2	0	68.1	68.1	70	N	-	-	56.6	Y	N	N
A1-9a-6	6	30.7	A1-9a	-	11.5	0	49.8	57.4	67.4	29.4	0	67.8	67.8	70	N	-	-	56.3	Y	N	N
A1-9a-6	7	33.9	A1-9a	-	11.5	0	49.8	57.4	67.1	29.4	0	67.6	67.6	70	N	-	-	56.1	Y	N	N
A1-9a-6	8	37.1	A1-9a	-	11.5	0	49.8	57.3	66.9	29.7	0	67.4	67.4	70	N	-	-	55.9	Y	N	N
A1-9a-6	9	40.3	A1-9a	-	11.6	0	49.7	57.3	66.6	30.4	0	67.2	67.2	70	N	-	-	55.6	Y	N	N
A1-9a-6	10	43.5	A1-9a	-	11.6	0	49.7	57.3	66.4	31.1	0	67	67.0	70	N	-	-	55.4	Y	N	N
A1-9a-6	11	46.7	A1-9a	-	11.9	0	49.8	57.3	66.1	31.8	0	66.8	66.8	70	N	-	-	54.9	Y	N	N
A1-9a-6	12	49.9	A1-9a	-	12.8	0	49.8	57.2	65.9	32.6	0	66.6	66.6	70	N	-	-	53.8	Y	N	N
A1-9a-6	13	53.1	A1-9a	-	13.8	0	49.8	57.2	65.7	33.4	0	66.4	66.4	70	N	-	-	52.6	Y	N	N
A1-9a-6	14	56.3	A1-9a	-	15.1	0	49.9	57.2	65.5	34.3	0	66.2	66.2	70	N	-	-	51.1	Y	N	N
A1-9a-6	15	59.5	A1-9a	-	16.6	0	49.9	57.1	65.3	35.1	0	66	66.0	70	N	-	-	49.4	Y	N	N
A1-9a-6	16	62.7	A1-9a	-	18.3	0	50	57.1	65.1	35.9	0	65.9	65.9	70	N	-	-	47.6	Y	N	N
A1-9a-6	17	65.9	A1-9a	-	20.2	0	50	57	64.9	36.7	0	65.7	65.7	70	N	-	-	45.5	Y	N	N
A1-9a-6	18	69.1	A1-9a	-	22.5	0	50.2	57	64.7	37.4	0	65.6	65.6	70	N	-	-	43.1	Y	N	N
A1-9a-7	1	14.7	A1-9a	-	11	0	41	53.5	64.1	0	0	64.5	64.5	70	N	-	-	53.5	Y	N	N
A1-9a-7	2	17.9	A1-9a	-	11	0	41	53.5	63.8	0	0	64.2	64.2	70	N	-	-	53.2	Y	N	N
A1-9a-7	3	21.1	A1-9a	-	11	0	41	53.5	63.6	0	0	64	64.0	70	N	-	-	53.0	Y	N	N
A1-9a-7	4	24.3	A1-9a	-	11	0	41	53.5	63.3	0	0	63.8	63.8	70	N	-	-	52.8	Y	N	N
A1-9a-7	5	27.5	A1-9a	-	11	0	41	53.5	63.1	0	0	63.6	63.6	70	N	-	-	52.6	Y	N	N
A1-9a-7	6	30.7	A1-9a	-	11	0	41	53.4	62.9	0	0	63.4	63.4	70	N	-	-	52.4	Y	N	N
A1-9a-7	7	33.9	A1-9a	-	11	0	41	53.4	62.7	0	0	63.2	63.2	70	N	-	-	52.2	Y	N	N
A1-9a-7	8	37.1	A1-9a	-	11	0	41	53.4	62.4	0	0	63	63.0	70	N	-	-	52.0	Y	N	N
A1-9a-7	9	40.3	A1-9a	-	11	0	41.1	53.4	62.2	0	0	62.8	62.8	70	N	-	-	51.8	Y	N	N
A1-9a-7	10	43.5	A1-9a	-	10.9	0	41.2	53.4	62	0	0	62.6	62.6	70	N	-	-	51.7	Y	N	N
A1-9a-7	11	46.7	A1-9a	-	11	0	41.3	53.4	61.8	0	0	62.4	62.4	70	N	-	-	51.4	Y	N	N
A1-9a-7	12	49.9	A1-9a	-	11.8	0	41.4	53.4	61.6	0	0	62.3	62.3	70	N	-	-	50.5	Y	N	N
A1-9a-7	13	53.1	A1-9a	-	12.8	0	41.5	53.3	61.4	0	0	62.1	62.1	70	N	-	-	49.3	Y	N	N
A1-9a-7	14	56.3	A1-9a	-	14	0	41.7	53.3	61.2	0	0	61.9	61.9	70	N	-	-	47.9	Y	N	N
A1-9a-7	15	59.5	A1-9a	-	15.4	0	41.9	53.3	61.1	0	0	61.8	61.8	70	N	-	-	46.4	Y	N	N
A1-9a-7	16	62.7	A1-9a	-	16.8	0	42.2	53.3	60.9	0	0	61.7	61.7	70	N	-	-	44.9	Y	N	N
A1-9a-7	17	65.9	A1-9a	-	18.1	0	42.5	53.3	60.7	0	0	61.5	61.5	70	N	-	-	43.4	Y	N	N
A1-9a-7	18	69.1	A1-9a	-	19.5	0	42.9	53.2	60.6	0	0	61.4	61.4	70	N	-	-	41.9	Y	N	N
A1-9b-1	1	15.2	A1-9b	-	9.3	0	43.7	66.8	68	59.9	0	70.8	70.8	70	Y	-	-	61.5	Y	Y	Y
A1-9b-1	2	18.4	A1-9b	-	10.2	0	43.7	66.7	67.7	60	0	70.7	70.7	70	Y	-	-	60.5	Y	Y	Y
A1-9b-1	3	21.6	A1-9b	-	11.4	0	43.7	66.6	67.4	60	0	70.5	70.5	70	Y	-	-	59.1	Y	Y	Y
A1-9b-1	4	24.8	A1-9b	-	12.4	0	43.7	66.5	67.1	60	0	70.3	70.3	70	N	-	-	57.9	Y	N	N
A1-9b-1	5	28	A1-9b	-	13.7	0	43.7	66.4	66.8	60	0	70.1	70.1	70	N	-	-	56.4	Y	N	N
A1-9b-1	6	31.2	A1-9b	-	15.1	0	43.7	66.2	66.5	60	0	69.9	69.9	70	N	-	-	54.8	Y	N	N
A1-9b-1	7	34.4	A1-9b	-	16.5	0	43.7	66.1	66.2	60	0	69.7	69.7	70	N	-	-	53.2	Y	N	N
A1-9b-1	8	37.6	A1-9b	-	18.2	0	43.7	65.9	66	60	0	69.5	69.5	70	N	-	-	51.3	Y	N	N
A1-9b-1	9	40.8	A1-9b	-	19.8	0	43.7	65.8	65.7	60	0	69.3	69.3	70	N	-	-	49.5	Y	N	N
A1-9b-1	10	44	A1-9b	-	21.5	0	43.7	65.6	65.4	60	0	69.1	69.1	70	N	-	-	47.6	Y	N	N
A1-9b-1	11	47.2	A1-9b	-	23.4	0	43.6	65.5	65.2	60.1	0	69	69.0	70	N	-	-	45.6	Y	N	N
A1-9b-1	12	50.4	A1-9b	-	25.6	0	43.6	65.3	65	60.1	0	68.8	68.8	70	N	-	-	43.2	Y	N	N
A1-9b-1	13	53.6	A1-9b	-	28.4	0	43.6	65.1	64.8	60.2	0	68.7	68.7	70	N	-	-	40.3	Y	N	N
A1-9b-1	14	56.8	A1-9b	-	32.3	0	43.6	65	64.6	60.3	0	68.5	68.5	70	N	-	-	36.2	Y	N	N
A1-9b-1	15	60	A1-9b	-	35.8	0	43.6	64.8	64.5	60.3	0	68.4	68.4	70	N	-	-	32.6	Y	N	N
A1-9b-1	16	63.2	A1-9b	-	37.5	0	43.6	64.7	64.4	60.4	0	68.3	68.3	70	N	-	-	30.8	Y	N	N
A1-9b-1	17	66.4	A1-9b	-	37.9	0	43.6	64.5	64.2	60.5	0	68.2	68.2	70	N	-	-	30.3	Y	N	N
A1-9b-2	1	15.2	A1-9b	-	16.7	0	55.3	71.3	64.4	60.4	0	72.5	72.5	70	Y	-	-	55.8	Y	Y	Y
A1-9b-2	2	18.4	A1-9b	-	17.7	0	55.3	71.2	64.3	60.4	0	72.4	72.4	70	Y	-	-	54.7	Y	Y	Y
A1-9b-2	3	21.6	A1-9b	-	18.8	0	55.4	71	64.1	60.4	0	72.2	72.2	70	Y	-	-	53.4	Y	Y	Y
A1-9b-2	4	24.8	A1-9b	-	19.9	0	55.4	70.8	64	60.4	0	72	72.0	70	Y	-	-	52.1	Y	Y	Y
A1-9b-2	5	28	A1-9b	-	21.2	0	55.4	70.6	63.9	60.4	0	71.9	71.9	70	Y	-	-	50.7	Y	Y	Y
A1-9b-2	6	31.2	A1-9b	-	22.4	0	55.4	70.4	63.7	60.4	0	71.7	71.7	70	Y	-	-	49.3	Y	Y	Y
A1-9b-2	7	34.4	A1-9b	-	23.9	0	55.4	70.1	63.6	60.5	0	71.5	71.5	70	Y	-	-	47.6	Y	Y	Y
A1-9b-2	8	37.6	A1-9b	-	25.4	0	55.4	69.9	63.4	60.5	0	71.3	71.3	70	Y	-	-	45.9	Y	Y	Y
A1-9b-2	9	40.8	A1-9b	-	27.1	0	55.5	69.7	63.2	60.5	0	71.1	71.1	70	Y	-	-	44.0	Y	Y	Y
A1-9b-2	10	44	A1-9b	-	29.3	0	55.5	69.4	63.1	60.5	0	70.9	70.9	70	Y	-	-	41.6	Y	Y	Y
A1-9b-2	11	47.2	A1-9b	-	32.8	0	55.6	69.2	63	60.6	0	70.7	70.7	70	Y	-	-	37.9	Y	Y	Y
A1-9b-2	12	50.4	A1-9b	-	35.3	0	55.7	69	62.9	60.6	0	70.5	70.5	70	Y	-	-	35.2	Y	Y	Y
A1-9b-2	13	53.6	A1-9b	-	37.1	0	55.8	68.7	62.8	60.6	0	70.4	70.4	70	N	-	-	33.3	Y	N	N
A1-9b-2	14	56.8	A1-9b	-	37.8	0	55.8	68.5	62.7	60.7	0	70.2	70.2	70	N	-	-	32.4	Y	N	N
A1-9b-2	15	60	A1-9b	-	38.3	0	56	68.3	62.6	60.7	0	70.1	70.1	70	N	-	-	31.8	Y	N	N
A1-9b-2	16	63.2	A1-9b	-	38.5	0	56	68.1	62.5	60.8	0	69.9	70.0	70	N	-	-	31.5	Y	N	N
A1-9b-2	17	66.4	A1-9b	-	38.5	0	56.1	67.9	62.4	60.9	0	69.8	69.8	70	N	-	-	31.3	Y	N	N
A1-9b-3	1	15.2	A1-9b	-	31.5	0	60.5	72.1	60.3	32.8	0	72.6	72.6	70	Y	-	-	41.1	Y	Y	Y
A1-9b-3	2	18.4	A1-9b	-	31.5	0	60.5	71.9	60.4	32.9	0	72.5	72.5	70	Y	-	-	41.0	Y	Y	Y
A1-9b-3	3	21.6	A1-9b	-	31.5	0	60.5	71.7	60.4	33.1	0	72.3	72.3	70	Y	-	-	40.8	Y	Y	Y
A1-9b-3	4	24.8	A1-9b	-	31.5	0	60.5	71.5	60.4	33.3	0	72.1	72.1	70	Y	-	-	40.6	Y	Y	Y
A1-9b-3	5	28	A1-9b	-	31.5	0	60.5	71.2	60.3	33.4	0	71.9	71.9	70	Y	-	-	40.4	Y	Y	Y
A1-9b-3	6	31.2	A1-9b	-	31.5	0	60.5	70.9	60.3	33.5	0	71.6	71.6	70	Y	-	-	40.1	Y	Y	Y
A1-9b-3	7	34.4	A1-9b	-	31.5	0	60.6	70.7	60.3	33.7	0	71.4	71.4	70	Y	-	-	39.9	Y	Y	Y
A1-9b-3	8	37.6	A1-9b	-	31.6	0	60.6	70.4	60.3	33.8	0	71.2	71.2	70	Y	-	-	39.6	Y	Y	Y
A1-9b-3	9	40.8	A1-9b	-	31.6	0	60.7	70.1	60.2	34	0	71	71.0	70	Y	-	-	39.4	Y	Y	Y
A1-9b-3	10	44	A1-9b	-	31.7	0	60.7	69.9	60.2	34.4	0	70.8	70.8	70	Y	-	-	39.1	Y	Y	Y
A1-9b-3	11	47.2	A1-9b	-	31.9	0	60.8	69.6	60.2	35	0	70.6	70.6	70	Y	-	-	38.7	Y	Y	Y
A1-9b-3	12	50.4	A1-9b	-	32.2	0	60.9	69.4	60.1	35.8	0	70.4	70.4	70	N	-	-	38.2	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT															
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	New Roads[2]					New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
A1-9b-3	13	53.6	A1-9b	-	32.4	0	60.9	69.1	60.1	36.6	0	70.2	70.2	70	N	-	-	37.8	Y	N	N
A1-9b-3	14	56.8	A1-9b	-	32.6	0	61	68.9	60.1	37.6	0	70	70.0	70	N	-	-	37.4	Y	N	N
A1-9b-3	15	60	A1-9b	-	32.7	0	61.1	68.7	60	38.4	0	69.9	69.9	70	N	-	-	37.2	Y	N	N
A1-9b-3	16	63.2	A1-9b	-	32.7	0	61.1	68.5	60	39.3	0	69.7	69.7	70	N	-	-	37.0	Y	N	N
A1-9b-3	17	66.4	A1-9b	-	32.7	0	61.2	68.3	59.9	40.1	0	69.6	69.6	70	N	-	-	36.9	Y	N	N
A1-9b-4	1	15.2	A1-9b	-	7.2	0	63	70.2	56.1	0	0	71.1	71.1	70	Y	-	-	63.9	Y	Y	Y
A1-9b-4	2	18.4	A1-9b	-	7.9	0	63	70.1	56.1	0	0	71	71.0	70	Y	-	-	63.1	Y	Y	Y
A1-9b-4	3	21.6	A1-9b	-	8.6	0	63	69.9	56.2	0	0	70.9	70.9	70	Y	-	-	62.3	Y	Y	Y
A1-9b-4	4	24.8	A1-9b	-	9.4	0	63	69.8	56.2	0	0	70.8	70.8	70	Y	-	-	61.4	Y	Y	Y
A1-9b-4	5	28	A1-9b	-	10.4	0	63	69.5	56.3	0	0	70.6	70.6	70	Y	-	-	60.2	Y	Y	Y
A1-9b-4	6	31.2	A1-9b	-	11.5	0	63	69.3	56.3	0	0	70.4	70.4	70	N	-	-	58.9	Y	N	N
A1-9b-4	7	34.4	A1-9b	-	12.7	0	63	69.1	56.4	0	0	70.2	70.2	70	N	-	-	57.5	Y	N	N
A1-9b-4	8	37.6	A1-9b	-	14.1	0	63	68.9	56.4	0	0	70	70.0	70	N	-	-	55.9	Y	N	N
A1-9b-4	9	40.8	A1-9b	-	15.7	0	62.9	68.6	56.4	0	0	69.9	69.9	70	N	-	-	54.2	Y	N	N
A1-9b-4	10	44	A1-9b	-	17.8	0	62.9	68.4	56.4	0	0	69.7	69.7	70	N	-	-	51.9	Y	N	N
A1-9b-4	11	47.2	A1-9b	-	20.4	0	62.9	68.2	56.4	0	0	69.5	69.5	70	N	-	-	49.1	Y	N	N
A1-9b-4	12	50.4	A1-9b	-	23.2	0	62.9	68	56.4	0	0	69.4	69.4	70	N	-	-	46.2	Y	N	N
A1-9b-4	13	53.6	A1-9b	-	25.1	0	62.9	67.7	56.4	0	0	69.2	69.2	70	N	-	-	44.1	Y	N	N
A1-9b-4	14	56.8	A1-9b	-	26	0	62.9	67.5	56.4	0	0	69.1	69.1	70	N	-	-	43.1	Y	N	N
A1-9b-4	15	60	A1-9b	-	26.5	0	63	67.3	56.4	0	0	68.9	68.9	70	N	-	-	42.4	Y	N	N
A1-9b-4	16	63.2	A1-9b	-	26.5	0	63	67.1	56.4	0	0	68.8	68.8	70	N	-	-	42.3	Y	N	N
A1-9b-4	17	66.4	A1-9b	-	26.6	0	63	66.9	56.3	0	0	68.7	68.7	70	N	-	-	42.1	Y	N	N
A1-9b-5	1	15.2	A1-9b	-	6.3	0	65.9	66.8	54.2	0	0	69.5	69.5	70	N	-	-	63.2	Y	N	N
A1-9b-5	2	18.4	A1-9b	-	6.3	0	65.9	66.8	54.2	0	0	69.5	69.5	70	N	-	-	63.2	Y	N	N
A1-9b-5	3	21.6	A1-9b	-	6.3	0	65.8	66.7	54.2	0	0	69.4	69.4	70	N	-	-	63.1	Y	N	N
A1-9b-5	4	24.8	A1-9b	-	6.3	0	65.8	66.7	54.2	0	0	69.4	69.4	70	N	-	-	63.1	Y	N	N
A1-9b-5	5	28	A1-9b	-	6.3	0	65.7	66.6	54.2	0	0	69.3	69.3	70	N	-	-	63.0	Y	N	N
A1-9b-5	6	31.2	A1-9b	-	6.3	0	65.6	66.5	54.2	0	0	69.2	69.2	70	N	-	-	62.9	Y	N	N
A1-9b-5	7	34.4	A1-9b	-	6.2	0	65.5	66.4	54.2	0	0	69.2	69.2	70	N	-	-	63.0	Y	N	N
A1-9b-5	8	37.6	A1-9b	-	6.5	0	65.5	66.3	54.2	0	0	69.1	69.1	70	N	-	-	62.6	Y	N	N
A1-9b-5	9	40.8	A1-9b	-	7	0	65.4	66.2	54.2	0	0	69	69.0	70	N	-	-	62.0	Y	N	N
A1-9b-5	10	44	A1-9b	-	7.5	0	65.3	66.1	54.2	0	0	68.9	68.9	70	N	-	-	61.4	Y	N	N
A1-9b-5	11	47.2	A1-9b	-	8.2	0	65.3	66	54.2	0	0	68.8	68.8	70	N	-	-	60.6	Y	N	N
A1-9b-5	12	50.4	A1-9b	-	8.7	0	65.2	65.9	54.2	0	0	68.7	68.7	70	N	-	-	60.0	Y	N	N
A1-9b-5	13	53.6	A1-9b	-	9.7	0	65.2	65.7	54.1	0	0	68.6	68.6	70	N	-	-	58.9	Y	N	N
A1-9b-5	14	56.8	A1-9b	-	10.9	0	65.1	65.6	54.1	0	0	68.5	68.5	70	N	-	-	57.6	Y	N	N
A1-9b-5	15	60	A1-9b	-	12	0	65	65.5	54.1	0	0	68.5	68.5	70	N	-	-	56.5	Y	N	N
A1-9b-5	16	63.2	A1-9b	-	13.2	0	65	65.4	54.1	0	0	68.4	68.4	70	N	-	-	55.2	Y	N	N
A1-9b-5	17	66.4	A1-9b	-	14.5	0	64.9	65.3	54.1	0	0	68.3	68.3	70	N	-	-	53.8	Y	N	N
A1-9b-6	1	15.2	A1-9b	-	24.9	0	69.6	68.3	55.6	0	0	72.1	72.1	70	Y	-	-	47.2	Y	Y	Y
A1-9b-6	2	18.4	A1-9b	-	25.8	0	69.6	68.3	55.6	0	0	72.1	72.1	70	Y	-	-	46.3	Y	Y	Y
A1-9b-6	3	21.6	A1-9b	-	26.9	0	69.5	68.2	55.5	0	0	72	72.0	70	Y	-	-	45.1	Y	Y	Y
A1-9b-6	4	24.8	A1-9b	-	28.4	0	69.5	68.1	55.4	0	0	72	72.0	70	Y	-	-	43.6	Y	Y	Y
A1-9b-6	5	28	A1-9b	-	30.5	0	69.5	68	55.4	0	0	71.9	71.9	70	Y	-	-	41.4	Y	Y	Y
A1-9b-6	6	31.2	A1-9b	-	33	0	69.4	67.9	55.3	0	0	71.8	71.8	70	Y	-	-	38.8	Y	Y	Y
A1-9b-6	7	34.4	A1-9b	-	34.2	0	69.3	67.7	55.3	0	0	71.7	71.7	70	Y	-	-	37.5	Y	Y	Y
A1-9b-6	8	37.6	A1-9b	-	34.8	0	69.3	67.6	55.2	0	0	71.6	71.6	70	Y	-	-	36.8	Y	Y	Y
A1-9b-6	9	40.8	A1-9b	-	35.1	0	69.2	67.4	55.2	0	0	71.5	71.5	70	Y	-	-	36.4	Y	Y	Y
A1-9b-6	10	44	A1-9b	-	35.6	0	69.1	67.3	55.1	0	0	71.4	71.4	70	Y	-	-	35.8	Y	Y	Y
A1-9b-6	11	47.2	A1-9b	-	35.8	0	69	67.1	55.1	0	0	71.3	71.3	70	Y	-	-	35.5	Y	Y	Y
A1-9b-6	12	50.4	A1-9b	-	36.2	0	69	67	55	0	0	71.2	71.2	70	Y	-	-	35.0	Y	Y	Y
A1-9b-6	13	53.6	A1-9b	-	36.6	0	68.9	66.8	55	0	0	71.1	71.1	70	Y	-	-	34.5	Y	Y	Y
A1-9b-6	14	56.8	A1-9b	-	37	0	68.8	66.7	55	0	0	71	71.0	70	Y	-	-	34.0	Y	Y	Y
A1-9b-6	15	60	A1-9b	-	37.3	0	68.7	66.5	54.9	0	0	70.9	70.9	70	Y	-	-	33.6	Y	Y	Y
A1-9b-6	16	63.2	A1-9b	-	37.4	0	68.7	66.4	54.9	0	0	70.8	70.8	70	Y	-	-	33.4	Y	Y	Y
A1-9b-6	17	66.4	A1-9b	-	37.6	0	68.6	66.2	54.8	0	0	70.7	70.7	70	Y	-	-	33.1	Y	Y	Y
A1-9b-7	1	15.2	A1-9b	-	26.5	0	71.3	66.2	54.3	33.2	0	72.5	72.5	70	Y	-	-	46.0	Y	Y	Y
A1-9b-7	2	18.4	A1-9b	-	27.6	0	71.3	66.1	54.2	34.3	0	72.5	72.5	70	Y	-	-	44.9	Y	Y	Y
A1-9b-7	3	21.6	A1-9b	-	29	0	71.3	66	54.2	34.9	0	72.5	72.5	70	Y	-	-	43.5	Y	Y	Y
A1-9b-7	4	24.8	A1-9b	-	31.1	0	71.2	65.9	54.2	35.3	0	72.4	72.4	70	Y	-	-	41.3	Y	Y	Y
A1-9b-7	5	28	A1-9b	-	33.2	0	71.2	65.9	54.2	35.7	0	72.4	72.4	70	Y	-	-	39.2	Y	Y	Y
A1-9b-7	6	31.2	A1-9b	-	34.6	0	71.2	65.7	54.1	36.1	0	72.4	72.4	70	Y	-	-	37.8	Y	Y	Y
A1-9b-7	7	34.4	A1-9b	-	35.3	0	71.2	65.6	54.1	36.4	0	72.3	72.3	70	Y	-	-	37.0	Y	Y	Y
A1-9b-7	8	37.6	A1-9b	-	35.9	0	71.1	65.5	54	36.9	0	72.2	72.2	70	Y	-	-	36.3	Y	Y	Y
A1-9b-7	9	40.8	A1-9b	-	36.2	0	71.1	65.4	53.9	37.4	0	72.2	72.2	70	Y	-	-	36.0	Y	Y	Y
A1-9b-7	10	44	A1-9b	-	36.9	0	71	65.2	53.8	37.8	0	72.1	72.1	70	Y	-	-	35.2	Y	Y	Y
A1-9b-7	11	47.2	A1-9b	-	37.3	0	70.9	65.1	53.7	38.3	0	72	72.0	70	Y	-	-	34.7	Y	Y	Y
A1-9b-7	12	50.4	A1-9b	-	37.8	0	70.9	65	53.7	39	0	71.9	71.9	70	Y	-	-	34.1	Y	Y	Y
A1-9b-7	13	53.6	A1-9b	-	38.2	0	70.8	64.8	53.6	39.7	0	71.8	71.8	70	Y	-	-	33.6	Y	Y	Y
A1-9b-7	14	56.8	A1-9b	-	38.5	0	70.7	64.7	53.5	40.1	0	71.8	71.8	70	Y	-	-	33.3	Y	Y	Y
A1-9b-7	15	60	A1-9b	-	38.7	0	70.7	64.5	53.5	40.8	0	71.7	71.7	70	Y	-	-	33.0	Y	Y	Y
A1-9b-7	16	63.2	A1-9b	-	38.8	0	70.6	64.4	53.4	41.3	0	71.6	71.6	70	Y	-	-	32.8	Y	Y	Y
A1-9b-7	17	66.4	A1-9b	-	38.9	0	70.5	64.3	53.4	42	0	71.5	71.5	70	Y	-	-	32.6	Y	Y	Y
A1-9b-8	1	15.2	A1-9b	-	9.8	0	0	59	70	0	0	70.4	70.4	70	N	-	-	60.6	Y	N	N
A1-9b-8	2	18.4	A1-9b	-	10.6	0	0	59	69.8	0	0	70.1	70.1	70	N	-	-	59.5	Y	N	N
A1-9b-8	3	21.6	A1-9b	-	11.6	0	0	59	69.4	0	0	69.8	69.8	70	N	-	-	58.2	Y	N	N
A1-9b-8	4	24.8	A1-9b	-	12.6	0	0	59	69	0	0	69.4	69.4	70	N	-	-	56.8	Y	N	N
A1-9b-8	5	28	A1-9b	-	13.7	0	0	58.9	68.7	0	0	69.1	69.1	70	N	-	-	55.4	Y	N	N
A1-9b-8	6	31.2	A1-9b	-	14.9	0	0	58.9	68.3	0	0	68.8	68.8	70	N	-	-	53.9	Y	N	N
A1-9b-8	7	34.4	A1-9b	-	16	0	0	58.9	68	0	0	68.5	68.5	70	N	-	-	52.5	Y	N	N
A1-9b-8	8	37.6	A1-9b	-	17.3	0	0	58.9	67.7	0	0	68.2	68.2	70	N	-	-	50.9	Y	N	N
A1-9b-8	9	40.8	A1-9b	-	18.6	0	0	58.8	67.3	0	0	67.9	67.9	70	N	-	-	49.3	Y	N	N
A1-9b-8	10	44	A1-9b	-	20	0	0	58.8	67.1	0	0	67.7	67.7	70	N	-	-	47.7	Y	N	N
A1-9b-8	11	47.2	A1-9b	-	21.5	0	0	58.7	66.8	0	0	67.4	67.4	70	N	-	-	45.9	Y	N	N
A1-9b-8	12	50.4	A1-9b	-	23.1	0	0	58.7	66.5	0	0	67.2	67.2	70	N	-	-	44.1	Y	N	N
A1-9b-8	13	53.6	A1-9b	-	24.9	0	0	58.6	66.3	0	0	67	67.0	70	N	-	-	42.1	Y	N	N
A1-9b-8	14	56.8	A1-9b	-	27.1	0	0	58.6	66.1	0	0	66.8	66.8	70	N	-	-	39.7	Y	N	N
A1-9b-8	15	60	A1-9b	-	29.8	0	0	58.5	65.8	0	0	66.5	66.5	70	N	-	-	36.7	Y	N	N
A1-9b-8	16	63.2	A1-9b	-	33.1	0	0	58.5	65.6	0	0	66.4	66.4	70	N	-	-	33.3	Y	N	N
A1-9b-8	17	66.4	A1-9b	-	35.6	0	0	58.4	65.4	0	0	66.2	66.2	70	N	-	-	30.6	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)															
A1-9b-9	1	15.2	A1-9b	-	6.8	0	31.4	52.7	67.1	0	0	67.3	67.3	70	N	-	-	60.5	Y	N	N
A1-9b-9	2	18.4	A1-9b	-	6.8	0	31.4	52.7	66.8	0	0	67	67.0	70	N	-	-	60.2	Y	N	N
A1-9b-9	3	21.6	A1-9b	-	6.8	0	31.4	52.7	66.5	0	0	66.7	66.7	70	N	-	-	59.9	Y	N	N
A1-9b-9	4	24.8	A1-9b	-	6.9	0	31.4	52.7	66.2	0	0	66.4	66.4	70	N	-	-	59.5	Y	N	N
A1-9b-9	5	28	A1-9b	-	6.9	0	31.4	52.7	65.9	0	0	66.1	66.1	70	N	-	-	59.2	Y	N	N
A1-9b-9	6	31.2	A1-9b	-	6.9	0	31.4	52.7	65.6	0	0	65.8	65.8	70	N	-	-	58.9	Y	N	N
A1-9b-9	7	34.4	A1-9b	-	6.9	0	31.4	52.7	65.3	0	0	65.5	65.5	70	N	-	-	58.6	Y	N	N
A1-9b-9	8	37.6	A1-9b	-	6.8	0	31.3	52.7	65	0	0	65.2	65.2	70	N	-	-	58.4	Y	N	N
A1-9b-9	9	40.8	A1-9b	-	7.3	0	31.6	52.7	64.7	0	0	64.9	64.9	70	N	-	-	57.6	Y	N	N
A1-9b-9	10	44	A1-9b	-	8.2	0	32	52.6	64.4	0	0	64.7	64.7	70	N	-	-	56.5	Y	N	N
A1-9b-9	11	47.2	A1-9b	-	9.3	0	32.5	52.6	64.2	0	0	64.5	64.5	70	N	-	-	55.2	Y	N	N
A1-9b-9	12	50.4	A1-9b	-	10.5	0	33	52.6	63.9	0	0	64.2	64.2	70	N	-	-	53.7	Y	N	N
A1-9b-9	13	53.6	A1-9b	-	11.8	0	33.6	52.6	63.6	0	0	64	64.0	70	N	-	-	52.2	Y	N	N
A1-9b-9	14	56.8	A1-9b	-	13.2	0	34.2	52.6	63.4	0	0	63.8	63.8	70	N	-	-	50.6	Y	N	N
A1-9b-9	15	60	A1-9b	-	14.5	0	34.9	52.5	63.2	0	0	63.6	63.6	70	N	-	-	49.1	Y	N	N
A1-9b-9	16	63.2	A1-9b	-	15.9	0	35.6	52.5	63	0	0	63.4	63.4	70	N	-	-	47.5	Y	N	N
A1-9b-9	17	66.4	A1-9b	-	17.5	0	36.2	52.5	62.8	0	0	63.2	63.2	70	N	-	-	45.7	Y	N	N
A2-2a-1	1	40.7	A2-2a	-	29.9	0	72.5	45.3	19.3	37.7	0	72.6	72.6	70	Y	-	-	42.7	Y	Y	Y
A2-2a-1	2	43.5	A2-2a	-	31	0	72.4	45.4	19.3	37.9	0	72.4	72.4	70	Y	-	-	41.4	Y	Y	Y
A2-2a-1	3	46.3	A2-2a	-	32.3	0	72.1	45.5	19.3	38.1	0	72.1	72.1	70	Y	-	-	39.8	Y	Y	Y
A2-2a-1	4	49.1	A2-2a	-	33.9	0	71.9	45.6	19.3	38.3	0	71.9	71.9	70	Y	-	-	38.0	Y	Y	Y
A2-2a-1	5	51.9	A2-2a	-	35.2	0	71.7	45.8	19.3	38.5	0	71.7	71.7	70	Y	-	-	36.5	Y	Y	Y
A2-2a-1	6	54.7	A2-2a	-	36.4	0	71.5	45.9	19.3	38.7	0	71.5	71.5	70	Y	-	-	35.1	Y	Y	Y
A2-2a-1	7	57.5	A2-2a	-	37.4	0	71.3	46.1	19.3	38.9	0	71.3	71.3	70	Y	-	-	33.9	Y	Y	Y
A2-2a-1	8	60.3	A2-2a	-	38.1	0	71	46.3	19.3	39.1	0	71	71.0	70	Y	-	-	32.9	Y	Y	Y
A2-2a-1	9	63.1	A2-2a	-	38.7	0	70.8	46.5	19.3	39.3	0	70.8	70.9	70	Y	-	-	32.2	Y	Y	Y
A2-2a-1	10	65.9	A2-2a	-	39.2	0	70.6	46.7	19.3	39.5	0	70.7	70.7	70	Y	-	-	31.5	Y	Y	Y
A2-2a-1	11	68.7	A2-2a	-	39.7	0	70.4	46.9	19.4	39.7	0	70.4	70.4	70	N	-	-	30.7	Y	N	N
A2-2a-1	12	71.5	A2-2a	-	40.2	0	70.2	47.1	19.3	39.9	0	70.3	70.3	70	N	-	-	30.1	Y	N	N
A2-2a-1	13	74.3	A2-2a	-	40.6	0	70	47.3	19.3	40.1	0	70.1	70.1	70	N	-	-	29.5	Y	N	N
A2-2a-1	14	77.1	A2-2a	-	41	0	69.9	47.4	19.3	40.2	0	69.9	69.9	70	N	-	-	28.9	Y	N	N
A2-2a-1	15	79.9	A2-2a	-	41.3	0	69.7	47.6	19.3	40.5	0	69.7	69.7	70	N	-	-	28.4	Y	N	N
A2-2a-1	16	82.7	A2-2a	-	41.7	0	69.5	47.7	19.3	40.7	0	69.6	69.6	70	N	-	-	27.9	Y	N	N
A2-2a-1	17	85.5	A2-2a	-	41.9	0	69.3	47.9	19.3	40.9	0	69.4	69.4	70	N	-	-	27.5	Y	N	N
A2-2a-1	18	88.3	A2-2a	-	42.2	0	69.2	48	19.3	41.2	0	69.2	69.3	70	N	-	-	27.1	Y	N	N
A2-2a-1	19	91.1	A2-2a	-	42.4	0	69.1	48.1	19.3	41.4	0	69.1	69.1	70	N	-	-	26.7	Y	N	N
A2-2a-1	20	93.9	A2-2a	-	42.6	0	68.9	48.1	19.3	41.7	0	68.9	69.0	70	N	-	-	26.4	Y	N	N
A2-2a-1	21	96.7	A2-2a	-	42.8	0	68.8	48.2	19.2	42	0	68.8	68.8	70	N	-	-	26.0	Y	N	N
A2-2a-1	22	99.5	A2-2a	-	43	0	68.6	48.3	19.2	42.3	0	68.7	68.7	70	N	-	-	25.7	Y	N	N
A2-2a-1	23	102.3	A2-2a	-	43.2	0	68.5	48.3	19.2	42.6	0	68.6	68.6	70	N	-	-	25.4	Y	N	N
A2-2a-1	24	105.1	A2-2a	-	43.3	0	68.4	48.4	19.2	43	0	68.4	68.4	70	N	-	-	25.1	Y	N	N
A2-2a-1	25	107.9	A2-2a	-	43.4	0	68.3	48.5	19.2	43.5	0	68.3	68.3	70	N	-	-	24.9	Y	N	N
A2-2a-1	26	110.7	A2-2a	-	43.5	0	68.1	48.6	19.2	43.6	0	68.2	68.2	70	N	-	-	24.7	Y	N	N
A2-2a-1	27	113.5	A2-2a	-	43.6	0	68	48.6	19.1	43.6	0	68.1	68.1	70	N	-	-	24.5	Y	N	N
A2-2a-1	28	116.3	A2-2a	-	43.6	0	67.9	48.7	19.1	43.6	0	68	68.0	70	N	-	-	24.4	Y	N	N
A2-2a-1	29	119.1	A2-2a	-	43.7	0	67.8	48.7	19.1	43.8	0	67.9	67.9	70	N	-	-	24.2	Y	N	N
A2-2a-1	30	121.9	A2-2a	-	43.8	0	67.7	48.7	19.1	44	0	67.8	67.8	70	N	-	-	24.0	Y	N	N
A2-2a-1	31	124.7	A2-2a	-	43.7	0	67.6	48.7	19.1	44.3	0	67.7	67.7	70	N	-	-	24.0	Y	N	N
A2-2a-1	32	127.5	A2-2a	-	43.7	0	67.5	48.7	19	44.5	0	67.6	67.6	70	N	-	-	23.9	Y	N	N
A2-2a-1	33	130.3	A2-2a	-	43.8	0	67.4	48.7	19	44.8	0	67.5	67.5	70	N	-	-	23.7	Y	N	N
A2-2a-1	34	133.1	A2-2a	-	43.8	0	67.4	48.7	19	45.1	0	67.4	67.5	70	N	-	-	23.7	Y	N	N
A2-2a-1	35	135.9	A2-2a	-	43.8	0	67.3	48.7	19	45.4	0	67.4	67.4	70	N	-	-	23.6	Y	N	N
A2-2a-1	36	138.7	A2-2a	-	43.8	0	67.2	48.8	19	45.6	0	67.3	67.3	70	N	-	-	23.5	Y	N	N
A2-2a-1	37	141.5	A2-2a	-	43.8	0	67.1	48.8	18.9	45.9	0	67.2	67.2	70	N	-	-	23.4	Y	N	N
A2-2a-1	38	144.3	A2-2a	-	43.8	0	67	48.7	18.9	46.1	0	67.1	67.1	70	N	-	-	23.3	Y	N	N
A2-2a-2	1	40.7	A2-2a	-	35.1	0	71.8	51.4	6.3	23.6	0	71.8	71.8	70	Y	-	-	36.7	Y	Y	Y
A2-2a-2	2	43.5	A2-2a	-	35.7	0	71.6	51.4	6.3	24.2	0	71.7	71.7	70	Y	-	-	36.0	Y	Y	Y
A2-2a-2	3	46.3	A2-2a	-	36.4	0	71.4	51.4	6.3	25	0	71.5	71.5	70	Y	-	-	35.1	Y	Y	Y
A2-2a-2	4	49.1	A2-2a	-	37	0	71.2	51.4	6.3	25.5	0	71.3	71.3	70	Y	-	-	34.3	Y	Y	Y
A2-2a-2	5	51.9	A2-2a	-	37.5	0	71	51.4	6.3	25.8	0	71.1	71.1	70	Y	-	-	33.6	Y	Y	Y
A2-2a-2	6	54.7	A2-2a	-	38	0	70.9	51.4	6.3	26.2	0	70.9	70.9	70	Y	-	-	32.9	Y	Y	Y
A2-2a-2	7	57.5	A2-2a	-	38.3	0	70.7	51.4	6.2	26.9	0	70.7	70.7	70	Y	-	-	32.4	Y	Y	Y
A2-2a-2	8	60.3	A2-2a	-	38.6	0	70.5	51.5	6.2	27.5	0	70.5	70.5	70	Y	-	-	31.9	Y	Y	Y
A2-2a-2	9	63.1	A2-2a	-	39	0	70.3	51.5	6.2	28	0	70.3	70.3	70	N	-	-	31.3	Y	N	N
A2-2a-2	10	65.9	A2-2a	-	39.4	0	70.1	51.5	6.2	28.4	0	70.2	70.2	70	N	-	-	30.8	Y	N	N
A2-2a-2	11	68.7	A2-2a	-	39.7	0	69.9	51.6	6.2	28.7	0	70	70.0	70	N	-	-	30.3	Y	N	N
A2-2a-2	12	71.5	A2-2a	-	40	0	69.7	51.7	6.2	28.9	0	69.8	69.8	70	N	-	-	29.8	Y	N	N
A2-2a-2	13	74.3	A2-2a	-	40.3	0	69.6	51.8	6.2	29.2	0	69.6	69.7	70	N	-	-	29.4	Y	N	N
A2-2a-2	14	77.1	A2-2a	-	40.7	0	69.4	51.9	6.2	29.3	0	69.5	69.5	70	N	-	-	28.8	Y	N	N
A2-2a-2	15	79.9	A2-2a	-	41	0	69.3	52.1	6.1	29.5	0	69.3	69.4	70	N	-	-	28.4	Y	N	N
A2-2a-2	16	82.7	A2-2a	-	41.3	0	69.1	52.2	6.1	29.7	0	69.2	69.2	70	N	-	-	27.9	Y	N	N
A2-2a-2	17	85.5	A2-2a	-	41.5	0	69	52.3	6.1	29.8	0	69	69.1	70	N	-	-	27.6	Y	N	N
A2-2a-2	18	88.3	A2-2a	-	41.8	0	68.8	52.5	6.1	29.8	0	68.9	68.9	70	N	-	-	27.1	Y	N	N
A2-2a-2	19	91.1	A2-2a	-	42.1	0	68.7	52.7	6.1	30	0	68.8	68.8	70	N	-	-	26.7	Y	N	N
A2-2a-2	20	93.9	A2-2a	-	42.3	0	68.6	52.8	6.1	30	0	68.7	68.7	70	N	-	-	26.4	Y	N	N
A2-2a-2	21	96.7	A2-2a	-	42.4	0	68.5	52.9	6	30.1	0	68.6	68.6	70	N	-	-	26.2	Y	N	N
A2-2a-2	22	99.5	A2-2a	-	42.5	0	68.4	52.9	6	30.2	0	68.5	68.5	70	N	-	-	26.0	Y	N	N
A2-2a-2	23	102.3	A2-2a	-	42.7	0	68.3	52.9	6	30.2	0	68.4	68.5	70	N	-	-	25.8	Y	N	N
A2-2a-2	24	105.1	A2-2a	-	42.8	0	68.3	52.8	6	30.3	0	68.4	68.4	70	N	-	-	25.6	Y	N	N
A2-2a-2	25	107.9	A2-2a	-	42.9	0	68.2	52.8	6	30.3	0	68.3	68.4	70	N	-	-	25.5	Y	N	N
A2-2a-2	26	110.7	A2-2a	-	43	0	68.2	52.8	6	30.4	0	68.3	68.3	70	N	-	-	25.3	Y	N	N
A2-2a-2	27	113.5	A2-2a	-	43.2	0	68.1	52.8	5.9	30.5	0	68.3	68.3	70	N	-	-	25.1	Y	N	N
A2-2a-2	28	116.3	A2-2a	-	43.2	0	68.1	52.8	5.9	30.5	0	68.2	68.2	70	N	-	-	25.0	Y	N	N
A2-2a-2	29	119.1	A2-2a	-	43.3	0	68	52.8	5.9	30.6	0	68.2	68.2	70	N	-	-	24.9	Y	N	N
A2-2a-2	30	121.9	A2-2a	-	43.4	0	68	52.8	5.9	30.6	0	68.1	68.2	70	N	-	-	24.8	Y	N	N
A2-2a-2	31	124.7	A2-2a	-	43.4	0	68	52.8	5.8	30.7	0	68.1	68.1	70	N	-	-	24.7	Y	N	N
A2-2a-2	32	127.5	A2-2a	-	43.4	0	67.9	52.8	5.8	30.8	0	68.1	68.1	70	N	-	-	24.7	Y	N	N
A2-2a-2	33	130.3	A2-2a	-	43.5	0	67.9	52.8	5.8	30.8	0	68	68.0	70	N	-	-	24.5	Y	N	N
A2-2a-2	34	133.1	A2-2a	-	43.5	0	67.9	52.7	5.8	30.9	0	68	68.0	70	N	-	-	24.5	Y	N	N
A2-2a-2	35	135.9	A2-2a	-	43.5	0	67.8	52.7	5.7	31	0	67.9	68.0	70	N	-	-	24.5	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)									Check Project Impact Significance		Check Direct Mitigation			
A2-2a-2	36	138.7	A2-2a	-	43.5	0	67.7	52.7	5.7	31.1	0	67.9	67.9	70	N	-	-	24.4	Y	N	N
A2-2a-2	37	141.5	A2-2a	-	43.6	0	67.7	52.7	5.7	31.2	0	67.8	67.9	70	N	-	-	24.3	Y	N	N
A2-2a-2	38	144.3	A2-2a	-	43.5	0	67.6	52.7	5.7	31.5	0	67.8	67.8	70	N	-	-	24.3	Y	N	N
A2-2a-3	1	47.3	A2-2a	-	23.1	0	62.3	47.6	0	23.8	0	62.4	62.4	70	N	-	-	39.3	Y	N	N
A2-2a-3	2	50.1	A2-2a	-	23.6	0	62.2	47.6	0	24.5	0	62.3	62.3	70	N	-	-	38.7	Y	N	N
A2-2a-3	3	52.9	A2-2a	-	24.3	0	62.2	47.6	0	24.8	0	62.3	62.3	70	N	-	-	38.0	Y	N	N
A2-2a-3	4	55.7	A2-2a	-	24.8	0	62.1	47.6	0	25.2	0	62.3	62.3	70	N	-	-	37.5	Y	N	N
A2-2a-3	5	58.5	A2-2a	-	25.5	0	62.1	47.6	0	25.5	0	62.2	62.2	70	N	-	-	36.7	Y	N	N
A2-2a-3	6	61.3	A2-2a	-	26.1	0	62	47.5	0	26.1	0	62.1	62.1	70	N	-	-	36.0	Y	N	N
A2-2a-3	7	64.1	A2-2a	-	26.8	0	61.9	47.5	0	26.7	0	62.1	62.1	70	N	-	-	35.3	Y	N	N
A2-2a-3	8	66.9	A2-2a	-	27.5	0	61.9	47.6	0	27.1	0	62	62.0	70	N	-	-	34.5	Y	N	N
A2-2a-3	9	69.7	A2-2a	-	28.2	0	61.8	47.6	0	27.5	0	62	62.0	70	N	-	-	33.8	Y	N	N
A2-2a-3	10	72.5	A2-2a	-	29	0	61.7	47.6	0	27.8	0	61.9	61.9	70	N	-	-	32.9	Y	N	N
A2-2a-3	11	75.3	A2-2a	-	29.6	0	61.7	47.8	0	28.1	0	61.8	61.8	70	N	-	-	32.2	Y	N	N
A2-2a-3	12	78.1	A2-2a	-	30.4	0	61.6	48.1	0	28.3	0	61.8	61.8	70	N	-	-	31.4	Y	N	N
A2-2a-3	13	80.9	A2-2a	-	31.5	0	61.5	49	0	28.5	0	61.7	61.7	70	N	-	-	30.2	Y	N	N
A2-2a-3	14	83.7	A2-2a	-	31.9	0	61.4	50.5	0	28.7	0	61.8	61.8	70	N	-	-	29.9	Y	N	N
A2-2a-3	15	86.5	A2-2a	-	32.5	0	61.4	51.6	0	28.9	0	61.8	61.8	70	N	-	-	29.3	Y	N	N
A2-2a-3	16	89.3	A2-2a	-	33	0	61.3	52.1	0	29	0	61.8	61.8	70	N	-	-	28.8	Y	N	N
A2-2a-3	17	92.1	A2-2a	-	33.6	0	61.2	52.3	0	29.1	0	61.8	61.8	70	N	-	-	28.2	Y	N	N
A2-2a-3	18	94.9	A2-2a	-	34.3	0	61.2	52.5	0	29.2	0	61.7	61.7	70	N	-	-	27.4	Y	N	N
A2-2a-3	19	97.7	A2-2a	-	34.9	0	61.1	52.6	0	29.2	0	61.7	61.7	70	N	-	-	26.8	Y	N	N
A2-2a-3	20	100.5	A2-2a	-	35.5	0	61.1	52.7	0	29.3	0	61.7	61.7	70	N	-	-	26.2	Y	N	N
A2-2a-3	21	103.3	A2-2a	-	35.6	0	61.1	52.8	0	29.5	0	61.7	61.7	70	N	-	-	26.1	Y	N	N
A2-2a-3	22	106.1	A2-2a	-	35.9	0	61	52.9	0	29.5	0	61.6	61.7	70	N	-	-	25.8	Y	N	N
A2-2a-3	23	108.9	A2-2a	-	36.2	0	61	53	0	29.5	0	61.6	61.7	70	N	-	-	25.5	Y	N	N
A2-2a-3	24	111.7	A2-2a	-	36.6	0	61	53.2	0	29.6	0	61.6	61.7	70	N	-	-	25.1	Y	N	N
A2-2a-3	25	114.5	A2-2a	-	37	0	61	53.3	0	29.6	0	61.7	61.7	70	N	-	-	24.7	Y	N	N
A2-2a-3	26	117.3	A2-2a	-	37.2	0	61	53.5	0	29.7	0	61.7	61.7	70	N	-	-	24.5	Y	N	N
A2-2a-3	27	120.1	A2-2a	-	37.4	0	61.1	53.8	0	29.7	0	61.8	61.8	70	N	-	-	24.4	Y	N	N
A2-2a-3	28	122.9	A2-2a	-	37.6	0	61.1	54	0	29.9	0	61.9	61.9	70	N	-	-	24.3	Y	N	N
A2-2a-3	29	125.7	A2-2a	-	37.9	0	61.2	54.3	0	29.9	0	62	62.0	70	N	-	-	24.1	Y	N	N
A2-2a-3	30	128.5	A2-2a	-	38.1	0	61.4	54.6	0	29.9	0	62.2	62.2	70	N	-	-	24.1	Y	N	N
A2-2a-3	31	131.3	A2-2a	-	38.2	0	61.5	54.9	0	29.9	0	62.4	62.4	70	N	-	-	24.2	Y	N	N
A2-2a-3	32	134.1	A2-2a	-	38.4	0	61.8	55.2	0	30	0	62.6	62.7	70	N	-	-	24.3	Y	N	N
A2-2a-3	33	136.9	A2-2a	-	38.5	0	62	55.4	0	30.1	0	62.9	62.9	70	N	-	-	24.4	Y	N	N
A2-2a-3	34	139.7	A2-2a	-	38.6	0	62.3	55.6	0	30.2	0	63.1	63.1	70	N	-	-	24.5	Y	N	N
A2-2a-3	35	142.5	A2-2a	-	38.6	0	62.6	55.6	0	30.2	0	63.4	63.4	70	N	-	-	24.8	Y	N	N
A2-2a-3	36	145.3	A2-2a	-	38.7	0	62.9	55.8	0	30.3	0	63.7	63.7	70	N	-	-	25.0	Y	N	N
A2-2a-3	37	148.1	A2-2a	-	38.7	0	63.2	55.8	0	30.4	0	63.9	63.9	70	N	-	-	25.2	Y	N	N
A2-2a-3	38	150.9	A2-2a	-	38.8	0	63.4	55.9	0	30.5	0	64.1	64.1	70	N	-	-	25.3	Y	N	N
A2-2a-4	1	35.2	A2-2a	-	0	0	60.5	72.3	59	3.2	0	72.8	72.8	70	Y	-	-	72.8	Y	Y	Y
A2-2a-4	2	38	A2-2a	-	0	0	60.5	72	58.6	3.4	0	72.5	72.5	70	Y	-	-	72.5	Y	Y	Y
A2-2a-4	3	40.8	A2-2a	-	0	0	60.5	71.6	58.2	3.4	0	72.1	72.1	70	Y	-	-	72.1	Y	Y	Y
A2-2a-4	4	43.6	A2-2a	-	0	0	60.5	71.2	57.9	3.4	0	71.7	71.7	70	Y	-	-	71.7	Y	Y	Y
A2-2a-4	5	46.4	A2-2a	-	0	0	60.5	70.8	57.5	3.4	0	71.4	71.4	70	Y	-	-	71.4	Y	Y	Y
A2-2a-4	6	49.2	A2-2a	-	0	0	60.5	70.5	57.2	3.4	0	71.1	71.1	70	Y	-	-	71.1	Y	Y	Y
A2-2a-4	7	52	A2-2a	-	0	0	60.4	70.1	56.9	3.5	0	70.7	70.7	70	Y	-	-	70.7	Y	Y	Y
A2-2a-4	8	54.8	A2-2a	-	0	0	60.4	69.8	56.6	3.5	0	70.4	70.4	70	N	-	-	70.4	Y	N	N
A2-2a-4	9	57.6	A2-2a	-	0	0	60.4	69.5	56.3	3.5	0	70.2	70.2	70	N	-	-	70.2	Y	N	N
A2-2a-4	10	60.4	A2-2a	-	0	0	60.4	69.1	56.1	3.5	0	69.9	69.9	70	N	-	-	69.9	Y	N	N
A2-2a-4	11	63.2	A2-2a	-	0	0	60.3	68.9	55.9	3.5	0	69.6	69.6	70	N	-	-	69.6	Y	N	N
A2-2a-4	12	66	A2-2a	-	0	0	60.3	68.6	55.7	3.5	0	69.4	69.4	70	N	-	-	69.4	Y	N	N
A2-2a-4	13	68.8	A2-2a	-	0	0	60.3	68.4	55.5	3.5	0	69.2	69.2	70	N	-	-	69.2	Y	N	N
A2-2a-4	14	71.6	A2-2a	-	0	0	60.2	68.1	55.3	3.5	0	69	69.0	70	N	-	-	69.0	Y	N	N
A2-2a-4	15	74.4	A2-2a	-	0	0	60.2	67.9	55.1	3.5	0	68.8	68.8	70	N	-	-	68.8	Y	N	N
A2-2a-4	16	77.2	A2-2a	-	0	0	60.2	67.7	54.9	3.5	0	68.6	68.6	70	N	-	-	68.6	Y	N	N
A2-2a-4	17	80	A2-2a	-	0	0	60.2	67.5	54.8	3.5	0	68.4	68.4	70	N	-	-	68.4	Y	N	N
A2-2a-4	18	82.8	A2-2a	-	0	0	60.1	67.3	54.6	3.4	0	68.3	68.3	70	N	-	-	68.3	Y	N	N
A2-2a-4	19	85.6	A2-2a	-	0	0	60.1	67.1	54.5	3.4	0	68.1	68.1	70	N	-	-	68.1	Y	N	N
A2-2a-4	20	88.4	A2-2a	-	0	0	60.1	66.9	54.3	3.4	0	67.9	67.9	70	N	-	-	67.9	Y	N	N
A2-2a-4	21	91.2	A2-2a	-	0	0	60	66.7	54.2	3.4	0	67.8	67.8	70	N	-	-	67.8	Y	N	N
A2-2a-4	22	94	A2-2a	-	0	0	60	66.6	54.1	3.4	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
A2-2a-4	23	96.8	A2-2a	-	0	0	59.9	66.4	54	3.4	0	67.5	67.5	70	N	-	-	67.5	Y	N	N
A2-2a-4	24	99.6	A2-2a	-	0	0	59.9	66.3	53.8	3.4	0	67.4	67.4	70	N	-	-	67.4	Y	N	N
A2-2a-4	25	102.4	A2-2a	-	0	0	59.9	66.1	53.7	3.4	0	67.2	67.2	70	N	-	-	67.2	Y	N	N
A2-2a-4	26	105.2	A2-2a	-	0	0	59.8	66	53.6	3.4	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
A2-2a-4	27	108	A2-2a	-	0	0	59.8	65.8	53.5	3.4	0	67	67.0	70	N	-	-	67.0	Y	N	N
A2-2a-4	28	110.8	A2-2a	-	0	0	59.7	65.7	53.4	3.3	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A2-2a-4	29	113.6	A2-2a	-	0	0	59.7	65.6	53.3	3.3	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
A2-2a-4	30	116.4	A2-2a	-	0	0	59.6	65.4	53.2	3.3	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
A2-2a-4	31	119.2	A2-2a	-	0	0	59.6	65.3	53.1	3.3	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A2-2a-4	32	122	A2-2a	-	0	0	59.5	65.2	53	3.3	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
A2-2a-4	33	124.8	A2-2a	-	0	0	59.5	65.1	52.9	3.3	0	66.4	66.4	70	N	-	-	66.4	Y	N	N
A2-2a-4	34	127.6	A2-2a	-	0	0	59.5	65	52.9	3.4	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A2-2a-4	35	130.4	A2-2a	-	0	0	59.4	64.9	52.8	3.3	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
A2-2a-4	36	133.2	A2-2a	-	0	0	59.4	64.8	52.7	3.3	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A2-2a-4	37	136	A2-2a	-	0	0	59.3	64.7	52.6	3.9	0	66	66.0	70	N	-	-	66.0	Y	N	N
A2-2a-4	38	138.8	A2-2a	-	0	0	59.3	64.6	52.5	5.5	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
A2-2a-4	39	141.6	A2-2a	-	0	0	59.2	64.5	52.5	7.3	0	65.8	65.8	70	N	-	-	65.8	Y	N	N
A2-2a-4	40	144.4	A2-2a	-	0	0	59.2	64.4	52.4	9.4	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
A2-2a-5	1	35.2	A2-2a	-	0	0	0	72	61.3	0	0	72.3	72.3	70	Y	-	-	72.3	Y	Y	Y
A2-2a-5	2	38	A2-2a	-	0	0	0	72.1	61.2	0	0	72.4	72.4	70	Y	-	-	72.4	Y	Y	Y
A2-2a-5	3	40.8	A2-2a	-	0	0	0	71.7	60.8	0	0	72	72.0	70	Y	-	-	72.0	Y	Y	Y
A2-2a-5	4	43.6	A2-2a	-	0	0	0	71.4	60.4	0	0	71.7	71.7	70	Y	-	-	71.7	Y	Y	Y
A2-2a-5	5	46.4	A2-2a	-	0	0	0	71	60.1	0	0	71.3	71.3	70	Y	-	-	71.3	Y	Y	Y
A2-2a-5	6	49.2	A2-2a	-	0	0	0	70.6	59.8	0	0	71	71.0	70	Y	-	-	71.0	Y	Y	Y
A2-2a-5	7	52	A2-2a	-	0	0	0	70.3	59.4	0	0	70.7	70.7	70	Y	-	-	70.7	Y	Y	Y
A2-2a-5	8	54.8	A2-2a	-	0	0	0	70	59.1	0	0	70.4	70.4	70	N	-	-	70.4	Y	N	N
A2-2a-5	9	57.6	A2-2a	-	0	0	0	69.7	58.9	0	0	70.1	70.1	70	N	-	-	70.1	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)															
A2-2a-5	10	60.4	A2-2a	-	0	0	0	69.4	58.6	0	0	69.8	69.8	70	N	-	-	69.8	Y	N	N
A2-2a-5	11	63.2	A2-2a	-	0	0	0	69.2	58.4	0	0	69.5	69.5	70	N	-	-	69.5	Y	N	N
A2-2a-5	12	66	A2-2a	-	0	0	0	68.9	58.1	0	0	69.3	69.3	70	N	-	-	69.3	Y	N	N
A2-2a-5	13	68.8	A2-2a	-	0	0	0	68.7	57.9	0	0	69	69.0	70	N	-	-	69.0	Y	N	N
A2-2a-5	14	71.6	A2-2a	-	0	0	0	68.5	57.7	0	0	68.8	68.8	70	N	-	-	68.8	Y	N	N
A2-2a-5	15	74.4	A2-2a	-	0	0	0	68.2	57.5	0	0	68.6	68.6	70	N	-	-	68.6	Y	N	N
A2-2a-5	16	77.2	A2-2a	-	0	0	0	68	57.3	0	0	68.4	68.4	70	N	-	-	68.4	Y	N	N
A2-2a-5	17	80	A2-2a	-	0	0	0	67.8	57.1	0	0	68.2	68.2	70	N	-	-	68.2	Y	N	N
A2-2a-5	18	82.8	A2-2a	-	0	0	0	67.6	57	0	0	68	68.0	70	N	-	-	68.0	Y	N	N
A2-2a-5	19	85.6	A2-2a	-	0	0	0	67.5	56.8	0	0	67.8	67.8	70	N	-	-	67.8	Y	N	N
A2-2a-5	20	88.4	A2-2a	-	0	0	0	67.3	56.6	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
A2-2a-5	21	91.2	A2-2a	-	0	0	0	67.1	56.5	0	0	67.5	67.5	70	N	-	-	67.5	Y	N	N
A2-2a-5	22	94	A2-2a	-	0	0	0	67	56.3	0	0	67.3	67.3	70	N	-	-	67.3	Y	N	N
A2-2a-5	23	96.8	A2-2a	-	0	0	0	66.8	56.2	0	0	67.2	67.2	70	N	-	-	67.2	Y	N	N
A2-2a-5	24	99.6	A2-2a	-	0	0	0	66.6	56.1	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A2-2a-5	25	102.4	A2-2a	-	0	0	0	66.5	56	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A2-2a-5	26	105.2	A2-2a	-	0	0	0	66.4	55.8	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
A2-2a-5	27	108	A2-2a	-	0	0	0	66.2	55.7	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A2-2a-5	28	110.8	A2-2a	-	0	0	0	66.1	55.6	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
A2-2a-5	29	113.6	A2-2a	-	0	0	0	66	55.5	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A2-2a-5	30	116.4	A2-2a	-	0	0	0	65.8	55.4	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
A2-2a-5	31	119.2	A2-2a	-	0	0	0	65.7	55.3	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A2-2a-5	32	122	A2-2a	-	0	0	0	65.6	55.2	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
A2-2a-5	33	124.8	A2-2a	-	0	0	0	65.5	55.1	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
A2-2a-5	34	127.6	A2-2a	-	0	0	0	65.4	55	0	0	65.8	65.8	70	N	-	-	65.8	Y	N	N
A2-2a-5	35	130.4	A2-2a	-	0	0	0	65.3	54.9	0	0	65.6	65.6	70	N	-	-	65.6	Y	N	N
A2-2a-5	36	133.2	A2-2a	-	0	0	0	65.1	54.8	0	0	65.5	65.5	70	N	-	-	65.5	Y	N	N
A2-2a-5	37	136	A2-2a	-	0	0	0	65	54.7	0	0	65.4	65.4	70	N	-	-	65.4	Y	N	N
A2-2a-5	38	138.8	A2-2a	-	0	0	0	64.9	54.6	0	0	65.3	65.3	70	N	-	-	65.3	Y	N	N
A2-2a-5	39	141.6	A2-2a	-	0	0	0	64.8	54.5	0	0	65.2	65.2	70	N	-	-	65.2	Y	N	N
A2-2a-5	40	144.4	A2-2a	-	0	0	0	64.7	54.4	0	0	65.1	65.1	70	N	-	-	65.1	Y	N	N
A2-2b-1	1	42.5	A2-2b	-	0	0	50.3	70.9	61.8	0	0	71.5	71.5	70	Y	-	-	71.5	Y	Y	Y
A2-2b-1	2	45.3	A2-2b	-	0	0	50.4	71.1	61.8	0	0	71.6	71.6	70	Y	-	-	71.6	Y	Y	Y
A2-2b-1	3	48.1	A2-2b	-	0	0	50.5	70.9	61.6	0	0	71.4	71.4	70	Y	-	-	71.4	Y	Y	Y
A2-2b-1	4	50.9	A2-2b	-	0	0	50.6	70.6	61.5	0	0	71.2	71.2	70	Y	-	-	71.2	Y	Y	Y
A2-2b-1	5	53.7	A2-2b	-	0	0	50.7	70.4	61.4	0	0	70.9	70.9	70	Y	-	-	70.9	Y	Y	Y
A2-2b-1	6	56.5	A2-2b	-	0	0	50.7	70.1	61.3	0	0	70.7	70.7	70	Y	-	-	70.7	Y	Y	Y
A2-2b-1	7	59.3	A2-2b	-	0	0	50.7	69.8	61.2	0	0	70.4	70.4	70	N	-	-	70.4	Y	N	N
A2-2b-1	8	62.1	A2-2b	-	0	0	50.7	69.6	61.1	0	0	70.2	70.2	70	N	-	-	70.2	Y	N	N
A2-2b-1	9	64.9	A2-2b	-	0	0	50.8	69.4	61	0	0	70	70.0	70	N	-	-	70.0	Y	N	N
A2-2b-1	10	67.7	A2-2b	-	0	0	50.8	69.1	60.8	0	0	69.8	69.8	70	N	-	-	69.8	Y	N	N
A2-2b-1	11	70.5	A2-2b	-	0	0	50.8	68.9	60.7	0	0	69.6	69.6	70	N	-	-	69.6	Y	N	N
A2-2b-1	12	73.3	A2-2b	-	0	0	50.8	68.7	60.6	0	0	69.4	69.4	70	N	-	-	69.4	Y	N	N
A2-2b-1	13	76.1	A2-2b	-	0	0	50.7	68.6	60.5	0	0	69.2	69.2	70	N	-	-	69.2	Y	N	N
A2-2b-1	14	78.9	A2-2b	-	0	0	50.7	68.4	60.4	0	0	69.1	69.1	70	N	-	-	69.1	Y	N	N
A2-2b-1	15	81.7	A2-2b	-	0	0	50.7	68.2	60.4	0	0	68.9	68.9	70	N	-	-	68.9	Y	N	N
A2-2b-1	16	84.5	A2-2b	-	0	0	50.7	68	60.3	0	0	68.7	68.7	70	N	-	-	68.7	Y	N	N
A2-2b-1	17	87.3	A2-2b	-	0	0	50.7	67.9	60.3	0	0	68.6	68.6	70	N	-	-	68.6	Y	N	N
A2-2b-1	18	90.1	A2-2b	-	0	0	50.7	67.7	60.1	0	0	68.5	68.5	70	N	-	-	68.5	Y	N	N
A2-2b-1	19	92.9	A2-2b	-	0	0	50.7	67.5	60.1	0	0	68.3	68.3	70	N	-	-	68.3	Y	N	N
A2-2b-1	20	95.7	A2-2b	-	0	0	50.7	67.4	60	0	0	68.2	68.2	70	N	-	-	68.2	Y	N	N
A2-2b-1	21	98.5	A2-2b	-	0	0	50.6	67.2	59.9	0	0	68	68.0	70	N	-	-	68.0	Y	N	N
A2-2b-1	22	101.3	A2-2b	-	0	0	50.6	67.1	59.8	0	0	67.9	67.9	70	N	-	-	67.9	Y	N	N
A2-2b-1	23	104.1	A2-2b	-	0	0	50.6	66.9	59.7	0	0	67.8	67.8	70	N	-	-	67.8	Y	N	N
A2-2b-1	24	106.9	A2-2b	-	0	0	50.6	66.8	59.6	0	0	67.7	67.7	70	N	-	-	67.7	Y	N	N
A2-2b-1	25	109.7	A2-2b	-	0	0	50.6	66.7	59.5	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
A2-2b-1	26	112.5	A2-2b	-	0	0	50.5	66.6	59.4	0	0	67.4	67.4	70	N	-	-	67.4	Y	N	N
A2-2b-1	27	115.3	A2-2b	-	0	0	50.5	66.4	59.3	0	0	67.3	67.3	70	N	-	-	67.3	Y	N	N
A2-2b-1	28	118.1	A2-2b	-	0	0	50.5	66.3	59.2	0	0	67.2	67.2	70	N	-	-	67.2	Y	N	N
A2-2b-1	29	120.9	A2-2b	-	0	0	50.5	66.2	59.1	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
A2-2b-1	30	123.7	A2-2b	-	0	0	50.5	66.1	59	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A2-2b-1	31	126.5	A2-2b	-	0	0	50.5	66	58.9	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A2-2b-1	32	129.3	A2-2b	-	0	0	50.4	65.9	58.8	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
A2-2b-1	33	132.1	A2-2b	-	0	0	50.4	65.8	58.8	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
A2-2b-1	34	134.9	A2-2b	-	0	0	50.4	65.7	58.7	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A2-2b-1	35	137.7	A2-2b	-	0	0	50.4	65.6	58.6	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
A2-2b-1	36	140.5	A2-2b	-	0	0	50.3	65.5	58.5	0	0	66.4	66.4	70	N	-	-	66.4	Y	N	N
A2-2b-1	37	143.3	A2-2b	-	0	0	50.3	65.4	58.4	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A2-2b-1	38	146.1	A2-2b	-	0	0	50.3	65.3	58.3	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
A2-2b-2	1	42.5	A2-2b	-	0	0	0	71.6	57.4	0	0	71.7	71.7	70	Y	-	-	71.7	Y	Y	Y
A2-2b-2	2	45.3	A2-2b	-	0	0	0	72	57.4	0	0	72.1	72.1	70	Y	-	-	72.1	Y	Y	Y

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT															
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	New Roads[2]					New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
A2-2b-2	3	48.1	A2-2b	-	0	0	0	71.8	57.4	0	0	72	72.0	70	Y	-	-	72.0	Y	Y	Y
A2-2b-2	4	50.9	A2-2b	-	0	0	0	71.5	57.3	0	0	71.7	71.7	70	Y	-	-	71.7	Y	Y	Y
A2-2b-2	5	53.7	A2-2b	-	0	0	0	71.2	57.3	0	0	71.4	71.4	70	Y	-	-	71.4	Y	Y	Y
A2-2b-2	6	56.5	A2-2b	-	0	0	0	71	57.3	0	0	71.2	71.2	70	Y	-	-	71.2	Y	Y	Y
A2-2b-2	7	59.3	A2-2b	-	0	0	0	70.7	57.2	0	0	70.9	70.9	70	Y	-	-	70.9	Y	Y	Y
A2-2b-2	8	62.1	A2-2b	-	0	0	0	70.4	57.2	0	0	70.6	70.6	70	Y	-	-	70.6	Y	Y	Y
A2-2b-2	9	64.9	A2-2b	-	0	0	0	70.2	57.2	0	0	70.4	70.4	70	N	-	-	70.4	Y	N	N
A2-2b-2	10	67.7	A2-2b	-	0	0	0	70	57.2	0	0	70.2	70.2	70	N	-	-	70.2	Y	N	N
A2-2b-2	11	70.5	A2-2b	-	0	0	0	69.8	57.2	0	0	70	70.0	70	N	-	-	70.0	Y	N	N
A2-2b-2	12	73.3	A2-2b	-	0	0	0	69.6	57.3	0	0	69.8	69.8	70	N	-	-	69.8	Y	N	N
A2-2b-2	13	76.1	A2-2b	-	0	0	0	69.4	57.2	0	0	69.7	69.7	70	N	-	-	69.7	Y	N	N
A2-2b-2	14	78.9	A2-2b	-	0	0	0	69.2	57.2	0	0	69.5	69.5	70	N	-	-	69.5	Y	N	N
A2-2b-2	15	81.7	A2-2b	-	0	0	0	69	57.1	0	0	69.3	69.3	70	N	-	-	69.3	Y	N	N
A2-2b-2	16	84.5	A2-2b	-	0	0	0	68.8	57.1	0	0	69.1	69.1	70	N	-	-	69.1	Y	N	N
A2-2b-2	17	87.3	A2-2b	-	0	0	0	68.6	57	0	0	68.9	68.9	70	N	-	-	68.9	Y	N	N
A2-2b-2	18	90.1	A2-2b	-	0	0	0	68.5	57	0	0	68.8	68.8	70	N	-	-	68.8	Y	N	N
A2-2b-2	19	92.9	A2-2b	-	0	0	0	68.3	56.9	0	0	68.6	68.6	70	N	-	-	68.6	Y	N	N
A2-2b-2	20	95.7	A2-2b	-	0	0	0	68.2	56.8	0	0	68.5	68.5	70	N	-	-	68.5	Y	N	N
A2-2b-2	21	98.5	A2-2b	-	0	0	0	68.1	56.8	0	0	68.4	68.4	70	N	-	-	68.4	Y	N	N
A2-2b-2	22	101.3	A2-2b	-	0	0	0	67.9	56.7	0	0	68.2	68.2	70	N	-	-	68.2	Y	N	N
A2-2b-2	23	104.1	A2-2b	-	0	0	0	67.8	56.6	0	0	68.1	68.1	70	N	-	-	68.1	Y	N	N
A2-2b-2	24	106.9	A2-2b	-	0	0	0	67.6	56.6	0	0	68	68.0	70	N	-	-	68.0	Y	N	N
A2-2b-2	25	109.7	A2-2b	-	0	0	0	67.5	56.5	0	0	67.9	67.9	70	N	-	-	67.9	Y	N	N
A2-2b-2	26	112.5	A2-2b	-	0	0	0	67.4	56.5	0	0	67.7	67.7	70	N	-	-	67.7	Y	N	N
A2-2b-2	27	115.3	A2-2b	-	0	0	0	67.2	56.4	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
A2-2b-2	28	118.1	A2-2b	-	0	0	0	67.1	56.3	0	0	67.5	67.5	70	N	-	-	67.5	Y	N	N
A2-2b-2	29	120.9	A2-2b	-	0	0	0	67	56.3	0	0	67.4	67.4	70	N	-	-	67.4	Y	N	N
A2-2b-2	30	123.7	A2-2b	-	0	0	0	66.9	56.2	0	0	67.3	67.3	70	N	-	-	67.3	Y	N	N
A2-2b-2	31	126.5	A2-2b	-	0	0	0	66.8	56.1	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
A2-2b-2	32	129.3	A2-2b	-	0	0	0	66.7	56.1	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A2-2b-2	33	132.1	A2-2b	-	0	0	0	66.6	56	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A2-2b-2	34	134.9	A2-2b	-	0	0	0	66.5	55.9	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
A2-2b-2	35	137.7	A2-2b	-	0	0	0	66.4	55.9	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
A2-2b-2	36	140.5	A2-2b	-	0	0	0	66.3	55.8	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A2-2b-2	37	143.3	A2-2b	-	0	0	0	66.2	55.8	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
A2-2b-2	38	146.1	A2-2b	-	0	0	0	66.1	55.7	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
A2-2b-3	1	36.7	A2-2b	-	0	5.2	24.3	72.9	52.9	0	0	73	73.0	70	Y	-	-	67.8	Y	Y	Y
A2-2b-3	2	39.5	A2-2b	-	0	5.2	24.3	73	52.9	0	0	73.1	73.1	70	Y	-	-	67.9	Y	Y	Y
A2-2b-3	3	42.3	A2-2b	-	0	5.2	24.3	72.7	52.9	0	0	72.8	72.8	70	Y	-	-	67.6	Y	Y	Y
A2-2b-3	4	45.1	A2-2b	-	0	5.2	24.3	72.4	52.9	0	0	72.4	72.4	70	Y	-	-	67.2	Y	Y	Y
A2-2b-3	5	47.9	A2-2b	-	0	5.3	24.3	72.1	52.9	0	0	72.2	72.2	70	Y	-	-	66.9	Y	Y	Y
A2-2b-3	6	50.7	A2-2b	-	0	5.2	24.3	71.8	52.9	0	0	71.9	71.9	70	Y	-	-	66.7	Y	Y	Y
A2-2b-3	7	53.5	A2-2b	-	0	5.2	24.3	71.5	52.9	0	0	71.6	71.6	70	Y	-	-	66.4	Y	Y	Y
A2-2b-3	8	56.3	A2-2b	-	0	5.2	24.3	71.2	52.8	0	0	71.3	71.3	70	Y	-	-	66.1	Y	Y	Y
A2-2b-3	9	59.1	A2-2b	-	0	5.2	24.2	70.9	52.8	0	0	71	71.0	70	Y	-	-	65.8	Y	Y	Y
A2-2b-3	10	61.9	A2-2b	-	0	5.2	24.2	70.7	52.9	0	0	70.8	70.8	70	Y	-	-	65.6	Y	Y	Y
A2-2b-3	11	64.7	A2-2b	-	0	5.3	24.2	70.5	53	0	0	70.6	70.6	70	Y	-	-	65.3	Y	Y	Y
A2-2b-3	12	67.5	A2-2b	-	0	5.2	24.2	70.2	53	0	0	70.3	70.3	70	N	-	-	65.1	Y	N	N
A2-2b-3	13	70.3	A2-2b	-	0	5.2	24.2	70	53.2	0	0	70.1	70.1	70	N	-	-	64.9	Y	N	N
A2-2b-3	14	73.1	A2-2b	-	0	5.2	24.2	69.8	53.4	0	0	69.9	69.9	70	N	-	-	64.7	Y	N	N
A2-2b-3	15	75.9	A2-2b	-	0	5.2	24.2	69.6	53.7	0	0	69.7	69.7	70	N	-	-	64.5	Y	N	N
A2-2b-3	16	78.7	A2-2b	-	0	5.2	24.1	69.4	53.9	0	0	69.5	69.5	70	N	-	-	64.3	Y	N	N
A2-2b-3	17	81.5	A2-2b	-	0	5.2	24.1	69.2	54	0	0	69.4	69.4	70	N	-	-	64.2	Y	N	N
A2-2b-3	18	84.3	A2-2b	-	0	5.3	24.1	69.1	54	0	0	69.2	69.2	70	N	-	-	63.9	Y	N	N
A2-2b-3	19	87.1	A2-2b	-	0	5.3	24.1	68.9	54	0	0	69.1	69.1	70	N	-	-	63.8	Y	N	N
A2-2b-3	20	89.9	A2-2b	-	0	5.3	24.1	68.7	54	0	0	68.9	68.9	70	N	-	-	63.6	Y	N	N
A2-2b-3	21	92.7	A2-2b	-	0	5.3	24	68.6	54	0	0	68.8	68.8	70	N	-	-	63.5	Y	N	N
A2-2b-3	22	95.5	A2-2b	-	0	5.3	24	68.4	53.9	0	0	68.6	68.6	70	N	-	-	63.3	Y	N	N
A2-2b-3	23	98.3	A2-2b	-	0	5.3	24.1	68.3	53.9	0	0	68.5	68.5	70	N	-	-	63.2	Y	N	N
A2-2b-3	24	101.1	A2-2b	-	0	5.3	24	68.1	53.9	0	0	68.3	68.3	70	N	-	-	63.0	Y	N	N
A2-2b-3	25	103.9	A2-2b	-	0	5.2	24	68	53.9	0	0	68.2	68.2	70	N	-	-	63.0	Y	N	N
A2-2b-3	26	106.7	A2-2b	-	0	5.2	24	67.9	53.9	0	0	68.1	68.1	70	N	-	-	62.9	Y	N	N
A2-2b-3	27	109.5	A2-2b	-	0	5.2	24	67.7	53.8	0	0	67.9	67.9	70	N	-	-	62.7	Y	N	N
A2-2b-3	28	112.3	A2-2b	-	0	5.2	23.9	67.6	53.9	0	0	67.8	67.8	70	N	-	-	62.6	Y	N	N
A2-2b-3	29	115.1	A2-2b	-	0	5.2	23.9	67.5	53.8	0	0	67.7	67.7	70	N	-	-	62.5	Y	N	N
A2-2b-3	30	117.9	A2-2b	-	0	5.2	23.9	67.4	53.8	0	0	67.6	67.6	70	N	-	-	62.4	Y	N	N
A2-2b-3	31	120.7	A2-2b	-	0	5.2	23.8	67.2	53.7	0	0	67.4	67.4	70	N	-	-	62.2	Y	N	N
A2-2b-3	32	123.5	A2-2b	-	0	5.2	23.8	67.1	53.7	0	0	67.3	67.3	70	N	-	-	62.1	Y	N	N
A2-2b-3	33	126.3	A2-2b	-	0	5.2	23.8	67	53.6	0	0	67.2	67.2	70	N	-	-	62.0	Y	N	N
A2-2b-3	34	129.1	A2-2b	-	0	5.1	23.7	66.9	53.6	0	0	67.1	67.1	70	N	-	-	62.0	Y	N	N
A2-2b-3	35	131.9	A2-2b	-	0	5.1	23.9	66.8	53.5	0	0	67	67.0	70	N	-	-	61.9	Y	N	N
A2-2b-3	36	134.7	A2-2b	-	0	5.1	24	66.7	53.5	0	0	66.9	66.9	70	N	-	-	61.8	Y	N	N
A2-2b-3	37	137.5	A2-2b	-	0	5.1	24.2	66.6	53.4	0	0	66.8	66.8	70	N	-	-	61.7	Y	N	N
A2-2b-3	38	140.3	A2-2b	-	0	5.1	24.4	66.5	53.4	0	0	66.7	66.7	70	N	-	-	61.6	Y	N	N
A2-2b-4	1	36.7	A2-2b	-	0	2.1	0	72.7	45.8	0	0	72.7	72.7	70	Y	-	-	70.6	Y	Y	Y
A2-2b-4	2	39.5	A2-2b	-	0	2.2	0	73	45.9	0	0	73.1	73.1	70	Y	-	-	70.9	Y	Y	Y
A2-2b-4	3	42.3	A2-2b	-	0	2.2	0	72.7	45.9	0	0	72.8	72.8	70	Y	-	-	70.6	Y	Y	Y
A2-2b-4	4	45.1	A2-2b	-	0	2.3	0	72.5	46	0	0	72.5	72.5	70	Y	-	-	70.2	Y	Y	Y
A2-2b-4	5	47.9	A2-2b	-	0	2.3	0	72.2	46.1	0	0	72.2	72.2	70	Y	-	-	69.9	Y	Y	Y
A2-2b-4	6	50.7	A2-2b	-	0	2.4	0	71.9	46.3	0	0	71.9	71.9	70	Y	-	-	69.5	Y	Y	Y
A2-2b-4	7	53.5	A2-2b	-	0	2.4	0	71.6	46.8	0	0	71.6	71.6	70	Y	-	-	69.2	Y	Y	Y
A2-2b-4	8	56.3	A2-2b	-	0	2.4	0	71.4	47.9	0	0	71.4	71.4	70	Y	-	-	69.0	Y	Y	Y
A2-2b-4	9	59.1	A2-2b	-	0	2.5	0	71.1	49.3	0	0	71.1	71.1	70	Y	-	-	68.6	Y	Y	Y
A2-2b-4	10	61.9	A2-2b	-	0	2.5	0	70.9	50.1	0	0	70.9	70.9	70	Y	-	-	68.4	Y	Y	Y
A2-2b-4	11	64.7	A2-2b	-	0	2.5	0	70.6	50.5	0	0	70.7	70.7	70	Y	-	-	68.2	Y	Y	Y
A2-2b-4	12	67.5	A2-2b	-	0	2.5	0	70.4	50.6	0	0	70.5	70.5	70	Y	-	-	68.0	Y	Y	Y
A2-2b-4	13	70.3	A2-2b	-	0	2.5	0	70.2	50.7	0	0	70.3	70.3	70	N	-	-	67.8	Y	N	N
A2-2b-4	14	73.1	A2-2b	-	0	2.5	0	70	50.7	0	0	70.1	70.1	70	N	-	-	67.6	Y	N	N
A2-2b-4	15	75.9	A2-2b	-	0	2.4	0	69.8	50.9	0	0	69.9	69.9	70	N	-	-	67.5	Y	N	N
A2-2b-4	16	78.7	A2-2b	-	0	2.4	0	69.6	50.9	0	0	69.7	69.7	70	N	-	-	67.3	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
									dB (A)							C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
A2-2b-4	17	81.5	A2-2b	-	0	2.4	0	69.5	51	0	0	69.6	69.6	70	N	-	-	67.2	Y	N	N
A2-2b-4	18	84.3	A2-2b	-	0	2.4	0	69.3	51.2	0	0	69.4	69.4	70	N	-	-	67.0	Y	N	N
A2-2b-4	19	87.1	A2-2b	-	0	2.4	0	69.1	51.3	0	0	69.2	69.2	70	N	-	-	66.8	Y	N	N
A2-2b-4	20	89.9	A2-2b	-	0	2.4	0	69	51.5	0	0	69.1	69.1	70	N	-	-	66.7	Y	N	N
A2-2b-4	21	92.7	A2-2b	-	0	2.4	0	68.8	51.7	0	0	68.9	68.9	70	N	-	-	66.5	Y	N	N
A2-2b-4	22	95.5	A2-2b	-	0	2.4	0	68.6	51.8	0	0	68.7	68.7	70	N	-	-	66.3	Y	N	N
A2-2b-4	23	98.3	A2-2b	-	0	2.4	0	68.5	51.8	0	0	68.6	68.6	70	N	-	-	66.2	Y	N	N
A2-2b-4	24	101.1	A2-2b	-	0	2.4	0	68.4	51.9	0	0	68.5	68.5	70	N	-	-	66.1	Y	N	N
A2-2b-4	25	103.9	A2-2b	-	0	2.3	0	68.2	52	0	0	68.3	68.3	70	N	-	-	66.0	Y	N	N
A2-2b-4	26	106.7	A2-2b	-	0	2.3	0	68.1	52	0	0	68.2	68.2	70	N	-	-	65.9	Y	N	N
A2-2b-4	27	109.5	A2-2b	-	0	2.3	0	68	52	0	0	68.1	68.1	70	N	-	-	65.8	Y	N	N
A2-2b-4	28	112.3	A2-2b	-	0	2.3	0	67.8	52	0	0	67.9	67.9	70	N	-	-	65.6	Y	N	N
A2-2b-4	29	115.1	A2-2b	-	0	2.3	0	67.7	52.1	0	0	67.9	67.9	70	N	-	-	65.6	Y	N	N
A2-2b-4	30	117.9	A2-2b	-	0	2.3	0	67.6	52.2	0	0	67.8	67.8	70	N	-	-	65.5	Y	N	N
A2-2b-4	31	120.7	A2-2b	-	0	2.3	0	67.5	52.1	0	0	67.7	67.7	70	N	-	-	65.4	Y	N	N
A2-2b-4	32	123.5	A2-2b	-	0	2.2	0	67.4	52.2	0	0	67.6	67.6	70	N	-	-	65.4	Y	N	N
A2-2b-4	33	126.3	A2-2b	-	0	2.2	0	67.3	52.2	0	0	67.4	67.4	70	N	-	-	65.2	Y	N	N
A2-2b-4	34	129.1	A2-2b	-	0	2.2	0	67.2	52.1	0	0	67.3	67.3	70	N	-	-	65.1	Y	N	N
A2-2b-4	35	131.9	A2-2b	-	0	2.2	0	67	52.1	0	0	67.2	67.2	70	N	-	-	65.0	Y	N	N
A2-2b-4	36	134.7	A2-2b	-	0	2.2	0	66.9	52	0	0	67.1	67.1	70	N	-	-	64.9	Y	N	N
A2-2b-4	37	137.5	A2-2b	-	0	2.2	0	66.8	52	0	0	67	67.0	70	N	-	-	64.8	Y	N	N
A2-2b-4	38	140.3	A2-2b	-	0	2.2	0	66.7	52	0	0	66.9	66.9	70	N	-	-	64.7	Y	N	N
A2-4-1	1	41.7	A2-4	-	0	0	0	52.7	38.6	0	0	52.9	52.9	70	N	-	-	52.9	Y	N	N
A2-4-1	2	44.5	A2-4	-	0	0	0	58.4	42.2	0	0	58.5	58.5	70	N	-	-	58.5	Y	N	N
A2-4-1	3	47.3	A2-4	-	0	0	0	60.5	43.8	0	0	60.6	60.6	70	N	-	-	60.6	Y	N	N
A2-4-1	4	50.1	A2-4	-	0	0	0	62.1	45.1	0	0	62.2	62.2	70	N	-	-	62.2	Y	N	N
A2-4-1	5	52.9	A2-4	-	0	0	0	63.5	46	0	0	63.6	63.6	70	N	-	-	63.6	Y	N	N
A2-4-1	6	55.7	A2-4	-	0	0	0	64.3	46.8	0	0	64.4	64.4	70	N	-	-	64.4	Y	N	N
A2-4-1	7	58.5	A2-4	-	0	0	0	64.7	47.2	0	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
A2-4-1	8	61.3	A2-4	-	0	0	0	65.1	47.4	0	0	65.1	65.1	70	N	-	-	65.1	Y	N	N
A2-4-1	9	64.1	A2-4	-	0	0	0	65.7	47.4	0	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
A2-4-1	10	66.9	A2-4	-	0	0	0	66.4	47.5	0	0	66.4	66.4	70	N	-	-	66.4	Y	N	N
A2-4-1	11	69.7	A2-4	-	0	0	0	67.3	47.4	0	0	67.3	67.3	70	N	-	-	67.3	Y	N	N
A2-4-1	12	72.5	A2-4	-	0	0	0	67.9	47.4	0	0	67.9	67.9	70	N	-	-	67.9	Y	N	N
A2-4-1	13	75.3	A2-4	-	0	0	0	68.1	47.4	0	0	68.2	68.2	70	N	-	-	68.2	Y	N	N
A2-4-1	14	78.1	A2-4	-	0	0	0	68.3	47.4	0	0	68.3	68.3	70	N	-	-	68.3	Y	N	N
A2-4-1	15	80.9	A2-4	-	0	0	0	68.2	47.4	0	0	68.3	68.3	70	N	-	-	68.3	Y	N	N
A2-4-1	16	83.7	A2-4	-	0	0	0	68.3	47.4	0	0	68.3	68.3	70	N	-	-	68.3	Y	N	N
A2-4-1	17	86.5	A2-4	-	0	0	0	68.1	47.4	0	0	68.2	68.2	70	N	-	-	68.2	Y	N	N
A2-4-1	18	89.3	A2-4	-	0	0	0	68.1	47.5	0	0	68.1	68.1	70	N	-	-	68.1	Y	N	N
A2-4-1	19	92.1	A2-4	-	0	0	0	67.9	47.5	0	0	68	68.0	70	N	-	-	68.0	Y	N	N
A2-4-1	20	94.9	A2-4	-	0	0	0	67.8	47.5	0	0	67.9	67.9	70	N	-	-	67.9	Y	N	N
A2-4-1	21	97.7	A2-4	-	0	0	0	67.8	47.6	0	0	67.8	67.8	70	N	-	-	67.8	Y	N	N
A2-4-1	22	100.5	A2-4	-	0	0	0	67.6	47.6	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
A2-4-1	23	103.3	A2-4	-	0	0	0	67.5	47.6	0	0	67.5	67.5	70	N	-	-	67.5	Y	N	N
A2-4-1	24	106.1	A2-4	-	0	0	0	67.4	47.6	0	0	67.4	67.4	70	N	-	-	67.4	Y	N	N
A2-4-1	25	108.9	A2-4	-	0	0	0	67.3	47.7	0	0	67.4	67.4	70	N	-	-	67.4	Y	N	N
A2-4-1	26	111.7	A2-4	-	0	0	0	67.2	47.7	0	0	67.2	67.2	70	N	-	-	67.2	Y	N	N
A2-4-1	27	114.5	A2-4	-	0	0	0	67	47.7	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
A2-4-1	28	117.3	A2-4	-	0	0	0	66.9	47.7	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A2-4-1	29	120.1	A2-4	-	0	0	0	66.8	47.8	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A2-4-1	30	122.9	A2-4	-	0	0	0	66.7	47.8	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
A2-4-1	31	125.7	A2-4	-	0	0	0	66.6	47.8	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
A2-4-1	32	128.5	A2-4	-	0	0	0	66.5	47.9	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A2-4-2	1	41.7	A2-4	-	0	0	0	50.8	38	0	0	51.1	51.1	70	N	-	-	51.1	Y	N	N
A2-4-2	2	44.5	A2-4	-	0	0	0	52.9	42.7	0	0	53.3	53.3	70	N	-	-	53.3	Y	N	N
A2-4-2	3	47.3	A2-4	-	0	0	0	55.3	43.8	0	0	55.6	55.6	70	N	-	-	55.6	Y	N	N
A2-4-2	4	50.1	A2-4	-	0	0	0	57.6	44.1	0	0	57.8	57.8	70	N	-	-	57.8	Y	N	N
A2-4-2	5	52.9	A2-4	-	0	0	0	60	44.2	0	0	60.1	60.1	70	N	-	-	60.1	Y	N	N
A2-4-2	6	55.7	A2-4	-	0	0	0	61.9	44.3	0	0	62	62.0	70	N	-	-	62.0	Y	N	N
A2-4-2	7	58.5	A2-4	-	0	0	0	63.2	44.4	0	0	63.2	63.2	70	N	-	-	63.2	Y	N	N
A2-4-2	8	61.3	A2-4	-	0	0	0	64.1	44.4	0	0	64.2	64.2	70	N	-	-	64.2	Y	N	N
A2-4-2	9	64.1	A2-4	-	0	0	0	65.2	44.4	0	0	65.2	65.2	70	N	-	-	65.2	Y	N	N
A2-4-2	10	66.9	A2-4	-	0	0	0	66.1	44.4	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A2-4-2	11	69.7	A2-4	-	0	0	0	67.3	44.4	0	0	67.3	67.3	70	N	-	-	67.3	Y	N	N
A2-4-2	12	72.5	A2-4	-	0	0	0	67.9	44.4	0	0	67.9	67.9	70	N	-	-	67.9	Y	N	N
A2-4-2	13	75.3	A2-4	-	0	0	0	68.3	44.5	0	0	68.3	68.3	70	N	-	-	68.3	Y	N	N
A2-4-2	14	78.1	A2-4	-	0	0	0	68.4	44.5	0	0	68.4	68.4	70	N	-	-	68.4	Y	N	N
A2-4-2	15	80.9	A2-4	-	0	0	0	68.4	44.7	0	0	68.4	68.4	70	N	-	-	68.4	Y	N	N
A2-4-2	16	83.7	A2-4	-	0	0	0	68.3	44.8	0	0	68.3	68.3	70	N	-	-	68.3	Y	N	N
A2-4-2	17	86.5	A2-4	-	0	0	0	68.3	44.9	0	0	68.3	68.3	70	N	-	-	68.3	Y	N	N
A2-4-2	18	89.3	A2-4	-	0	0	0	68.2	45	0	0	68.2	68.2	70	N	-	-	68.2	Y	N	N
A2-4-2	19	92.1	A2-4	-	0	0	0	68.1	45.2	0	0	68.1	68.1	70	N	-	-	68.1	Y	N	N
A2-4-2	20	94.9	A2-4	-	0	0	0	67.9	45.3	0	0	68	68.0	70	N	-	-	68.0	Y	N	N
A2-4-2	21	97.7	A2-4	-	0	0	0	67.9	45.4	0	0	67.9	67.9	70	N	-	-	67.9	Y	N	N
A2-4-2	22	100.5	A2-4	-	0	0	0	67.8	45.6	0	0	67.8	67.8	70	N	-	-	67.8	Y	N	N
A2-4-2	23	103.3	A2-4	-	0	0	0	67.6	45.8	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
A2-4-2	24	106.1	A2-4	-	0	0	0	67.5	46	0	0	67.5	67.5	70	N	-	-	67.5	Y	N	N
A2-4-2	25	108.9	A2-4	-	0	0	0	67.4	46.4	0	0	67.4	67.4	70	N	-	-	67.4	Y	N	N
A2-4-2	26	111.7	A2-4	-	0	0	0	67.3	46.6	0	0	67.3	67.3	70	N	-	-	67.3	Y	N	N
A2-4-2	27	114.5	A2-4	-	0	0	0	67.2	46.7	0	0	67.2	67.2	70	N	-	-	67.2	Y	N	N
A2-4-2	28	117.3	A2-4	-	0	0	0	67.1	46.9	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
A2-4-2	29	120.1	A2-4	-	0	0	0	66.9	47	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A2-4-2	30	122.9	A2-4	-	0	0	0	66.8	47	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
A2-4-2	31	125.7	A2-4	-	0	0	0	66.7	47.2	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
A2-4-2	32	128.5	A2-4	-	0	0	0	66.6	47.3	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A2-5-1	1	33.7	A2-5	-	0	0	18.7	55.9	29.3	0	0	55.9	55.9	70	N	-	-	55.9	Y	N	N
A2-5-1	2	36.9	A2-5	-	0	0	18.7	62.5	29.8	0	0	62.5	62.5	70	N	-	-	62.5	Y	N	N
A2-5-1	3	40.1	A2-5	-	0	0	18.7	65.5	30.5	0	0	65.5	65.5	70	N	-	-	65.5	Y	N	N
A2-5-1	4	43.3	A2-5	-	0	0	18.7	68.5	31.7	0	0	68.5	68.5	70	N	-	-	68.5	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT															
							New Roads[2]													
							PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	dB (A)									C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
A2-5-1	5	46.5	A2-5	-	0	0	18.7	69.2	33.4	0	0	69.2	69.2	70	N	-	-	69.2	Y	N	N
A2-5-1	6	49.7	A2-5	-	0	0	18.7	69.2	35.6	0	0	69.2	69.2	70	N	-	-	69.2	Y	N	N
A2-5-1	7	52.9	A2-5	-	0	0	18.7	69	37.2	0	0	69	69.0	70	N	-	-	69.0	Y	N	N
A2-5-1	8	56.1	A2-5	-	0	0	18.7	68.8	38.2	0	0	68.8	68.8	70	N	-	-	68.8	Y	N	N
A2-5-1	9	59.3	A2-5	-	0	0	18.7	68.7	38.7	0	0	68.7	68.7	70	N	-	-	68.7	Y	N	N
A2-5-1	10	62.5	A2-5	-	0	0	18.7	68.5	38.9	0	0	68.5	68.5	70	N	-	-	68.5	Y	N	N
A2-5-1	11	65.7	A2-5	-	0	0	18.7	68.3	39	0	0	68.3	68.3	70	N	-	-	68.3	Y	N	N
A2-5-1	12	68.9	A2-5	-	0	0	18.7	68.1	39.1	0	0	68.1	68.1	70	N	-	-	68.1	Y	N	N
A2-5-1	13	72.1	A2-5	-	0	0	18.7	68	39.2	0	0	68	68.0	70	N	-	-	68.0	Y	N	N
A2-5-1	14	75.3	A2-5	-	0	0	18.7	67.9	39.2	0	0	67.9	67.9	70	N	-	-	67.9	Y	N	N
A2-5-1	15	78.5	A2-5	-	0	0	18.7	67.8	39.2	0	0	67.8	67.8	70	N	-	-	67.8	Y	N	N
A2-5-1	16	81.7	A2-5	-	0	0	18.7	67.6	39.3	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
A2-5-1	17	84.9	A2-5	-	0	0	18.6	67.5	39.4	0	0	67.5	67.5	70	N	-	-	67.5	Y	N	N
A2-5-1	18	88.1	A2-5	-	0	0	18.6	67.3	39.5	0	0	67.3	67.3	70	N	-	-	67.3	Y	N	N
A2-5-1	19	91.3	A2-5	-	0	0	18.6	67.1	39.6	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
A2-5-1	20	94.5	A2-5	-	0	0	18.6	67	39.6	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A2-5-1	21	97.7	A2-5	-	0	0	18.6	66.9	39.8	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A2-5-1	22	100.9	A2-5	-	0	0	18.6	66.7	40	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
A2-5-1	23	104.1	A2-5	-	0	0	18.6	66.6	40.2	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A2-5-1	24	107.3	A2-5	-	0	0	18.6	66.4	40.4	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
A2-5-1	25	110.5	A2-5	-	0	0	18.6	66.3	40.7	0	0	66.4	66.4	70	N	-	-	66.4	Y	N	N
A2-5-1	26	113.7	A2-5	-	0	0	18.7	66.2	41.1	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A2-5-2	1	33.7	A2-5	-	0	0	0	54.5	46.7	0	0	55.2	55.2	70	N	-	-	55.2	Y	N	N
A2-5-2	2	36.9	A2-5	-	0	0	0	60.1	51.6	0	0	60.7	60.7	70	N	-	-	60.7	Y	N	N
A2-5-2	3	40.1	A2-5	-	0	0	0	63.7	52.3	0	0	64	64.0	70	N	-	-	64.0	Y	N	N
A2-5-2	4	43.3	A2-5	-	0	0	0	67.9	52.3	0	0	68	68.0	70	N	-	-	68.0	Y	N	N
A2-5-2	5	46.5	A2-5	-	0	0	0	68.8	52.3	0	0	68.9	68.9	70	N	-	-	68.9	Y	N	N
A2-5-2	6	49.7	A2-5	-	0	0	0	68.8	52.3	0	0	68.9	68.9	70	N	-	-	68.9	Y	N	N
A2-5-2	7	52.9	A2-5	-	0	0	0	68.6	52.4	0	0	68.7	68.7	70	N	-	-	68.7	Y	N	N
A2-5-2	8	56.1	A2-5	-	0	0	0	68.4	52.4	0	0	68.5	68.5	70	N	-	-	68.5	Y	N	N
A2-5-2	9	59.3	A2-5	-	0	0	0	68.2	52.5	0	0	68.3	68.3	70	N	-	-	68.3	Y	N	N
A2-5-2	10	62.5	A2-5	-	0	0	0	68.1	52.6	0	0	68.2	68.2	70	N	-	-	68.2	Y	N	N
A2-5-2	11	65.7	A2-5	-	0	0	0	67.9	52.7	0	0	68	68.0	70	N	-	-	68.0	Y	N	N
A2-5-2	12	68.9	A2-5	-	0	0	0	67.7	52.6	0	0	67.8	67.8	70	N	-	-	67.8	Y	N	N
A2-5-2	13	72.1	A2-5	-	0	0	0	67.5	52.6	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
A2-5-2	14	75.3	A2-5	-	0	0	0	67.3	52.6	0	0	67.5	67.5	70	N	-	-	67.5	Y	N	N
A2-5-2	15	78.5	A2-5	-	0	0	0	67.1	52.6	0	0	67.3	67.3	70	N	-	-	67.3	Y	N	N
A2-5-2	16	81.7	A2-5	-	0	0	0	67	52.6	0	0	67.2	67.2	70	N	-	-	67.2	Y	N	N
A2-5-2	17	84.9	A2-5	-	0	0	0	66.8	52.6	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A2-5-2	18	88.1	A2-5	-	0	0	0	66.7	52.5	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A2-5-2	19	91.3	A2-5	-	0	0	0	66.5	52.5	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
A2-5-2	20	94.5	A2-5	-	0	0	0	66.4	52.5	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A2-5-2	21	97.7	A2-5	-	0	0	0	66.2	52.5	0	0	66.4	66.4	70	N	-	-	66.4	Y	N	N
A2-5-2	22	100.9	A2-5	-	0	0	0	66.1	52.5	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A2-5-2	23	104.1	A2-5	-	0	0	0	65.9	52.5	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A2-5-2	24	107.3	A2-5	-	0	0	0	65.8	52.7	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
A2-5-2	25	110.5	A2-5	-	0	0	0	65.7	52.8	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
A2-5-2	26	113.7	A2-5	-	0	0	0	65.6	53	0	0	65.8	65.8	70	N	-	-	65.8	Y	N	N
A2-7-1	1	35.7	A2-7	-	0	0	0	69.6	55.6	0	0	69.7	69.7	70	N	-	-	69.7	Y	N	N
A2-7-1	2	38.5	A2-7	-	0	0	0	70	55.5	0	0	70.1	70.1	70	N	-	-	70.1	Y	N	N
A2-7-1	3	41.3	A2-7	-	0	0	0	69.8	55.5	0	0	70	70.0	70	N	-	-	70.0	Y	N	N
A2-7-1	4	44.1	A2-7	-	0	0	0	69.6	55.6	0	0	69.8	69.8	70	N	-	-	69.8	Y	N	N
A2-7-1	5	46.9	A2-7	-	0	0	0	69.4	55.6	0	0	69.6	69.6	70	N	-	-	69.6	Y	N	N
A2-7-1	6	49.7	A2-7	-	0	0	0	69.2	55.5	0	0	69.4	69.4	70	N	-	-	69.4	Y	N	N
A2-7-1	7	52.5	A2-7	-	0	0	0	69	55.5	0	0	69.2	69.2	70	N	-	-	69.2	Y	N	N
A2-7-1	8	55.3	A2-7	-	0	0	0	68.8	55.5	0	0	69	69.0	70	N	-	-	69.0	Y	N	N
A2-7-1	9	58.1	A2-7	-	0	0	0	68.6	55.4	0	0	68.8	68.8	70	N	-	-	68.8	Y	N	N
A2-7-1	10	60.9	A2-7	-	0	0	0	68.4	55.4	0	0	68.7	68.7	70	N	-	-	68.7	Y	N	N
A2-7-1	11	63.7	A2-7	-	0	0	0	68.3	55.3	0	0	68.5	68.5	70	N	-	-	68.5	Y	N	N
A2-7-1	12	66.5	A2-7	-	0	0	0	68.1	55.3	0	0	68.3	68.3	70	N	-	-	68.3	Y	N	N
A2-7-1	13	69.3	A2-7	-	0	0	0	67.9	55.3	0	0	68.2	68.2	70	N	-	-	68.2	Y	N	N
A2-7-1	14	72.1	A2-7	-	0	0	0	67.7	55.2	0	0	68	68.0	70	N	-	-	68.0	Y	N	N
A2-7-1	15	74.9	A2-7	-	0	0	0	67.5	55.3	0	0	67.8	67.8	70	N	-	-	67.8	Y	N	N
A2-7-1	16	77.7	A2-7	-	0	0	0	67.4	55.2	0	0	67.7	67.7	70	N	-	-	67.7	Y	N	N
A2-7-1	17	80.5	A2-7	-	0	0	0	67.2	55.3	0	0	67.5	67.5	70	N	-	-	67.5	Y	N	N
A2-7-1	18	83.3	A2-7	-	0	0	0	67.1	55.3	0	0	67.4	67.4	70	N	-	-	67.4	Y	N	N
A2-7-1	19	86.1	A2-7	-	0	0	0	67	55.4	0	0	67.2	67.2	70	N	-	-	67.2	Y	N	N
A2-7-1	20	88.9	A2-7	-	0	0	0	66.8	55.5	0	0	67.2	67.2	70	N	-	-	67.2	Y	N	N
A2-7-1	21	91.7	A2-7	-	0	0	0	66.7	55.6	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A2-7-1	22	94.5	A2-7	-	0	0	0	66.5	55.6	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A2-7-1	23	97.3	A2-7	-	0	0	0	66.4	55.6	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
A2-7-1	24	100.1	A2-7	-	0	0	0	66.3	55.5	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
A2-7-1	25	102.9	A2-7	-	0	0	0	66.2	55.6	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
A2-7-1	26	105.7	A2-7	-	0	0	0	66	55.5	0	0	66.4	66.4	70	N	-	-	66.4	Y	N	N
A2-7-1	27	108.5	A2-7	-	0	0	0	65.9	55.5	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A2-7-1	28	111.3	A2-7	-	0	0	0	65.8	55.4	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
A2-7-1	29	114.1	A2-7	-	0	0	0	65.7	55.3	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A2-7-1	30	116.9	A2-7	-	0	0	0	65.6	55.3	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
A2-7-1	31	119.7	A2-7	-	0	0	0	65.5	55.2	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
A2-7-1	32	122.5	A2-7	-	0	0	0	65.4	55.2	0	0	65.8	65.8	70	N	-	-	65.8	Y	N	N
A2-7-1	33	125.3	A2-7	-	0	0	0	65.3	55.1	0	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
A2-7-1	34	128.1	A2-7	-	0	0	0	65.2	55.1	0	0	65.6	65.6	70	N	-	-	65.6	Y	N	N
A2-7-1	35	130.9	A2-7	-	0	0	0	65.1	55	0	0	65.5	65.5	70	N	-	-	65.5	Y	N	N
A2-7-1	36	133.7	A2-7	-	0	0	0	65	55	0	0	65.4	65.4	70	N	-	-	65.4	Y	N	N
A2-7-1	37	136.5	A2-7	-	0	0	0	65	54.9	0	0	65.4	65.4	70	N	-	-	65.4	Y	N	N
A2-7-2	1	35.7	A2-7	-	0	0	15.9	43.8	45.7	0	0	47.9	47.9	70	N	-	-	47.9	Y	N	N
A2-7-2	2	38.5	A2-7	-	0	0	15.7	45.7	46.6	0	0	49.2	49.2	70	N	-	-	49.2	Y	N	N
A2-7-2	3	41.3	A2-7	-	0	0	15.9	48	47.2	0	0	50.7	50.7	70	N	-	-	50.7	Y	N	N
A2-7-2	4	44.1	A2-7	-	0	0	15.9	49.8	48.1	0	0	52.1	52.1	70	N	-	-	52.1	Y	N	N
A2-7-2	5	46.9	A2-7	-	0	0	15.9	51.6	49.1	0	0	53.5	53.5	70	N	-	-	53.5	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
A2-7-2	6	49.7	A2-7	-	0	0	15.9	53.4	50.4	0	0	55.2	55.2	70	N	-	-	55.2	Y	N	N
A2-7-2	7	52.5	A2-7	-	0	0	15.9	54.8	52.3	0	0	56.8	56.8	70	N	-	-	56.8	Y	N	N
A2-7-2	8	55.3	A2-7	-	0	0	16	55.8	54.5	0	0	58.2	58.2	70	N	-	-	58.2	Y	N	N
A2-7-2	9	58.1	A2-7	-	0	0	16.1	56.8	55.5	0	0	59.2	59.2	70	N	-	-	59.2	Y	N	N
A2-7-2	10	60.9	A2-7	-	0	0	16.1	57.6	55.7	0	0	59.8	59.8	70	N	-	-	59.8	Y	N	N
A2-7-2	11	63.7	A2-7	-	0	0	16	58.1	55.9	0	0	60.1	60.1	70	N	-	-	60.1	Y	N	N
A2-7-2	12	66.5	A2-7	-	0	0	16.1	58.5	56	0	0	60.5	60.5	70	N	-	-	60.5	Y	N	N
A2-7-2	13	69.3	A2-7	-	0	0	16.2	59	56	0	0	60.8	60.8	70	N	-	-	60.8	Y	N	N
A2-7-2	14	72.1	A2-7	-	0	0	16.2	59.5	56	0	0	61.1	61.1	70	N	-	-	61.1	Y	N	N
A2-7-2	15	74.9	A2-7	-	0	0	16.2	60	55.9	0	0	61.4	61.4	70	N	-	-	61.4	Y	N	N
A2-7-2	16	77.7	A2-7	-	0	0	16.2	60.4	55.9	0	0	61.7	61.7	70	N	-	-	61.7	Y	N	N
A2-7-2	17	80.5	A2-7	-	0	0	16.2	60.7	55.9	0	0	62	62.0	70	N	-	-	62.0	Y	N	N
A2-7-2	18	83.3	A2-7	-	0	0	16.2	61	55.9	0	0	62.1	62.1	70	N	-	-	62.1	Y	N	N
A2-7-2	19	86.1	A2-7	-	0	0	16.2	61.2	55.9	0	0	62.3	62.3	70	N	-	-	62.3	Y	N	N
A2-7-2	20	88.9	A2-7	-	0	0	16.1	61.3	55.9	0	0	62.4	62.4	70	N	-	-	62.4	Y	N	N
A2-7-2	21	91.7	A2-7	-	0	0	16.2	61.5	55.9	0	0	62.6	62.6	70	N	-	-	62.6	Y	N	N
A2-7-2	22	94.5	A2-7	-	0	0	16.2	61.6	55.9	0	0	62.6	62.6	70	N	-	-	62.6	Y	N	N
A2-7-2	23	97.3	A2-7	-	0	0	16.2	61.6	55.8	0	0	62.6	62.6	70	N	-	-	62.6	Y	N	N
A2-7-2	24	100.1	A2-7	-	0	0	16.2	61.7	55.7	0	0	62.6	62.6	70	N	-	-	62.6	Y	N	N
A2-7-2	25	102.9	A2-7	-	0	0	16.2	61.7	55.7	0	0	62.6	62.6	70	N	-	-	62.6	Y	N	N
A2-7-2	26	105.7	A2-7	-	0	0	16.2	61.7	55.7	0	0	62.6	62.6	70	N	-	-	62.6	Y	N	N
A2-7-2	27	108.5	A2-7	-	0	0	16.1	61.6	55.6	0	0	62.6	62.6	70	N	-	-	62.6	Y	N	N
A2-7-2	28	111.3	A2-7	-	0	0	16.1	61.6	55.5	0	0	62.6	62.6	70	N	-	-	62.6	Y	N	N
A2-7-2	29	114.1	A2-7	-	0	0	16.1	61.6	55.5	0	0	62.6	62.6	70	N	-	-	62.6	Y	N	N
A2-7-2	30	116.9	A2-7	-	0	0	16.1	61.6	55.5	0	0	62.5	62.5	70	N	-	-	62.5	Y	N	N
A2-7-2	31	119.7	A2-7	-	0	0	16.1	61.6	55.4	0	0	62.5	62.5	70	N	-	-	62.5	Y	N	N
A2-7-2	32	122.5	A2-7	-	0	0	16.8	61.6	55.4	0	0	62.5	62.5	70	N	-	-	62.5	Y	N	N
A2-7-2	33	125.3	A2-7	-	0	0	17.8	61.5	55.4	0	0	62.5	62.5	70	N	-	-	62.5	Y	N	N
A2-7-2	34	128.1	A2-7	-	0	0	19	61.5	55.3	0	0	62.5	62.5	70	N	-	-	62.5	Y	N	N
A2-7-2	35	130.9	A2-7	-	0	0	20.4	61.5	55.3	0	0	62.5	62.5	70	N	-	-	62.5	Y	N	N
A2-7-2	36	133.7	A2-7	-	0	0	21.8	61.5	55.3	0	0	62.4	62.4	70	N	-	-	62.4	Y	N	N
A2-7-2	37	136.5	A2-7	-	0	0	23.2	61.5	55.3	0	0	62.4	62.4	70	N	-	-	62.4	Y	N	N
A2-7-3	1	35.7	A2-7	-	8.4	0	18.4	55.3	53.6	0	0	57.6	57.6	70	N	-	-	49.2	Y	N	N
A2-7-3	2	38.5	A2-7	-	8.4	0	18.5	55.5	54.1	0	0	57.8	57.8	70	N	-	-	49.4	Y	N	N
A2-7-3	3	41.3	A2-7	-	8.5	0	18.5	55.7	54.1	0	0	57.9	57.9	70	N	-	-	49.4	Y	N	N
A2-7-3	4	44.1	A2-7	-	8.6	0	18.5	56.1	54.4	0	0	58.3	58.3	70	N	-	-	49.7	Y	N	N
A2-7-3	5	46.9	A2-7	-	8.6	0	18.8	56.7	54.8	0	0	58.8	58.8	70	N	-	-	50.2	Y	N	N
A2-7-3	6	49.7	A2-7	-	8.6	0	19	57.4	55	0	0	59.4	59.4	70	N	-	-	50.8	Y	N	N
A2-7-3	7	52.5	A2-7	-	8.6	0	19.2	58.4	55	0	0	60	60.0	70	N	-	-	51.4	Y	N	N
A2-7-3	8	55.3	A2-7	-	8.6	0	19.6	58.9	55.2	0	0	60.4	60.4	70	N	-	-	51.8	Y	N	N
A2-7-3	9	58.1	A2-7	-	8.6	0	20.2	59.1	55.3	0	0	60.6	60.6	70	N	-	-	52.0	Y	N	N
A2-7-3	10	60.9	A2-7	-	8.6	0	20.9	59.3	55.4	0	0	60.8	60.8	70	N	-	-	52.2	Y	N	N
A2-7-3	11	63.7	A2-7	-	8.6	0	21.7	59.4	55.6	0	0	60.9	60.9	70	N	-	-	52.3	Y	N	N
A2-7-3	12	66.5	A2-7	-	8.6	0	22.4	59.4	55.7	0	0	61	61.0	70	N	-	-	52.4	Y	N	N
A2-7-3	13	69.3	A2-7	-	8.3	0	23.3	59.6	55.9	0	0	61.1	61.1	70	N	-	-	52.8	Y	N	N
A2-7-3	14	72.1	A2-7	-	8.9	0	24.2	59.7	56	0	0	61.3	61.3	70	N	-	-	52.4	Y	N	N
A2-7-3	15	74.9	A2-7	-	9.3	0	25.2	59.9	56	0	0	61.4	61.4	70	N	-	-	52.1	Y	N	N
A2-7-3	16	77.7	A2-7	-	9.8	0	26.2	60.2	55.9	0	0	61.6	61.6	70	N	-	-	51.8	Y	N	N
A2-7-3	17	80.5	A2-7	-	10.3	0	27.4	60.4	55.9	0	0	61.7	61.7	70	N	-	-	51.4	Y	N	N
A2-7-3	18	83.3	A2-7	-	10.8	0	28.7	60.5	55.8	0	0	61.7	61.7	70	N	-	-	50.9	Y	N	N
A2-7-3	19	86.1	A2-7	-	11.4	0	30.3	60.6	55.7	0	0	61.8	61.8	70	N	-	-	50.4	Y	N	N
A2-7-3	20	88.9	A2-7	-	11.9	0	32.2	60.6	55.6	0	0	61.8	61.8	70	N	-	-	49.9	Y	N	N
A2-7-3	21	91.7	A2-7	-	12.5	0	34.9	60.7	55.5	0	0	61.9	61.9	70	N	-	-	49.4	Y	N	N
A2-7-3	22	94.5	A2-7	-	13.1	0	37.8	60.8	55.5	0	0	61.9	61.9	70	N	-	-	48.8	Y	N	N
A2-7-3	23	97.3	A2-7	-	13.7	0	39.8	60.8	55.3	0	0	61.9	61.9	70	N	-	-	48.2	Y	N	N
A2-7-3	24	100.1	A2-7	-	14.3	0	40.4	60.9	55.2	0	0	62	62.0	70	N	-	-	47.7	Y	N	N
A2-7-3	25	102.9	A2-7	-	14.9	0	40.8	60.9	55.1	0	0	62	62.0	70	N	-	-	47.1	Y	N	N
A2-7-3	26	105.7	A2-7	-	15.6	0	40.9	61	55	0	0	62	62.0	70	N	-	-	46.4	Y	N	N
A2-7-3	27	108.5	A2-7	-	16.2	0	40.9	61	55	0	0	62	62.0	70	N	-	-	45.8	Y	N	N
A2-7-3	28	111.3	A2-7	-	16.8	0	41.1	61.1	54.9	0	0	62.1	62.1	70	N	-	-	45.3	Y	N	N
A2-7-3	29	114.1	A2-7	-	17.5	0	41	61.1	54.8	0	0	62.1	62.1	70	N	-	-	44.6	Y	N	N
A2-7-3	30	116.9	A2-7	-	18.2	0	41.1	61.2	54.7	0	0	62.1	62.1	70	N	-	-	43.9	Y	N	N
A2-7-3	31	119.7	A2-7	-	18.8	0	41.2	61.2	54.6	0	0	62.1	62.1	70	N	-	-	43.3	Y	N	N
A2-7-3	32	122.5	A2-7	-	19.5	0	41.4	61.3	54.5	0	0	62.2	62.2	70	N	-	-	42.7	Y	N	N
A2-7-3	33	125.3	A2-7	-	20.2	0	41.5	61.3	54.5	0	0	62.1	62.1	70	N	-	-	41.9	Y	N	N
A2-7-3	34	128.1	A2-7	-	21	0	41.7	61.3	54.4	0	0	62.1	62.1	70	N	-	-	41.1	Y	N	N
A2-7-3	35	130.9	A2-7	-	21.6	0	42.1	61.3	54.3	0	0	62.1	62.1	70	N	-	-	40.5	Y	N	N
A2-7-3	36	133.7	A2-7	-	22.4	0	42.7	61.3	54.3	0	0	62.1	62.1	70	N	-	-	39.7	Y	N	N
A2-7-3	37	136.5	A2-7	-	23.2	0	43.4	61.3	54.3	0	0	62.1	62.1	70	N	-	-	38.9	Y	N	N
A2-7-4	1	35.7	A2-7	-	11.3	0	44	49.7	50.9	0	0	53.9	53.9	70	N	-	-	42.6	Y	N	N
A2-7-4	2	38.5	A2-7	-	11.4	0	44.1	55.8	53.1	0	0	57.8	57.8	70	N	-	-	46.4	Y	N	N
A2-7-4	3	41.3	A2-7	-	11.5	0	44	57.2	54.2	0	0	59.1	59.1	70	N	-	-	47.6	Y	N	N
A2-7-4	4	44.1	A2-7	-	11.8	0	44	57.4	54.8	0	0	59.4	59.4	70	N	-	-	47.6	Y	N	N
A2-7-4	5	46.9	A2-7	-	12	0	44	57.5	55.3	0	0	59.7	59.7	70	N	-	-	47.7	Y	N	N
A2-7-4	6	49.7	A2-7	-	12.3	0	44	57.6	55.6	0	0	59.9	59.9	70	N	-	-	47.6	Y	N	N
A2-7-4	7	52.5	A2-7	-	12.7	0	44	57.7	55.8	0	0	60	60.0	70	N	-	-	47.3	Y	N	N
A2-7-4	8	55.3	A2-7	-	13.1	0	44	57.9	56.1	0	0	60.2	60.2	70	N	-	-	47.1	Y	N	N
A2-7-4	9	58.1	A2-7	-	13.4	0	44	58	56.2	0	0	60.3	60.3	70	N	-	-	46.9	Y	N	N
A2-7-4	10	60.9	A2-7	-	14	0	44	58.1	56.2	0	0	60.4	60.4	70	N	-	-	46.4	Y	N	N
A2-7-4	11	63.7	A2-7	-	14.5	0	44.1	58.3	56.1	0	0	60.5	60.5	70	N	-	-	46.0	Y	N	N
A2-7-4	12	66.5	A2-7	-	15.2	0	44.1	58.4	56	0	0	60.5	60.5	70	N	-	-	45.3	Y	N	N
A2-7-4	13	69.3	A2-7	-	16	0	44.1	58.5	55.9	0	0	60.5	60.5	70	N	-	-	44.5	Y	N	N
A2-7-4	14	72.1	A2-7	-	16.8	0	44.1	58.6	55.8	0	0	60.5	60.5	70	N	-	-	43.7	Y	N	N
A2-7-4	15	74.9	A2-7	-	17.7	0	44.1	58.7	55.7	0	0	60.6	60.6	70	N	-	-	42.9	Y	N	N
A2-7-4	16	77.7	A2-7	-	18.7	0	44.2	58.8	55.6	0	0	60.6	60.6	70	N	-	-	41.9	Y	N	N
A2-7-4	17	80.5	A2-7	-	19.6	0	44.4	58.8	55.5	0	0	60.6	60.6	70	N	-	-	41.0	Y	N	N
A2-7-4	18	83.3	A2-7	-	20.8	0	44.6	58.9	55.5	0	0	60.6	60.6	70	N	-	-	39.8	Y	N	N
A2-7-4	19	86.1	A2-7	-	22	0	45.1	58.9	55.4	0	0	60.6	60.6	70	N	-	-	38.6	Y	N	N
A2-7-4	20	88.9	A2-7	-	23.4	0	46.2	59	55.3	0	0	60.7	60.7	70	N	-	-	37.3	Y	N	N
A2-7-4	21	91.7	A2-7	-	25	0	47.7	59	55.2	0	0	60.8	60.8	70	N	-	-	35.8	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	New Roads[2]					New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
ID	Floor	Floor Level (mPD)					PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
							dB (A)														
A2-7-4	22	94.5	A2-7	-	27	0	48.3	59	55.2	0	0	60.8	60.8	70	N	-	-	33.8	Y	N	N
A2-7-4	23	97.3	A2-7	-	29.3	0	48.5	59.1	55.1	0	0	60.8	60.8	70	N	-	-	31.5	Y	N	N
A2-7-4	24	100.1	A2-7	-	31.5	0	48.6	59.1	55	0	0	60.8	60.8	70	N	-	-	29.3	Y	N	N
A2-7-4	25	102.9	A2-7	-	32.9	0	48.5	59.1	54.9	0	0	60.8	60.8	70	N	-	-	27.9	Y	N	N
A2-7-4	26	105.7	A2-7	-	33.6	0	48.5	59.2	54.8	0	0	60.8	60.8	70	N	-	-	27.2	Y	N	N
A2-7-4	27	108.5	A2-7	-	34.2	0	48.5	59.2	54.8	0	0	60.8	60.8	70	N	-	-	26.6	Y	N	N
A2-7-4	28	111.3	A2-7	-	34.5	0	48.6	59.2	54.7	0	0	60.8	60.8	70	N	-	-	26.3	Y	N	N
A2-7-4	29	114.1	A2-7	-	34.9	0	48.6	59.2	54.6	0	0	60.8	60.8	70	N	-	-	25.9	Y	N	N
A2-7-4	30	116.9	A2-7	-	35.2	0	48.5	59.3	54.6	0	0	60.8	60.8	70	N	-	-	25.6	Y	N	N
A2-7-4	31	119.7	A2-7	-	35.4	0	48.6	59.3	54.5	0	0	60.8	60.8	70	N	-	-	25.4	Y	N	N
A2-7-4	32	122.5	A2-7	-	35.5	0	48.6	59.3	54.5	0	0	60.8	60.8	70	N	-	-	25.3	Y	N	N
A2-7-4	33	125.3	A2-7	-	35.4	0	48.6	59.4	54.4	0	0	60.8	60.9	70	N	-	-	25.5	Y	N	N
A2-7-4	34	128.1	A2-7	-	35.5	0	48.7	59.4	54.4	0	0	60.9	60.9	70	N	-	-	25.4	Y	N	N
A2-7-4	35	130.9	A2-7	-	35.5	0	48.7	59.4	54.3	0	0	60.8	60.9	70	N	-	-	25.4	Y	N	N
A2-7-4	36	133.7	A2-7	-	35.5	0	48.9	59.4	54.3	0	0	60.9	60.9	70	N	-	-	25.4	Y	N	N
A2-7-4	37	136.5	A2-7	-	35.6	0	49	59.4	54.2	0	0	60.9	60.9	70	N	-	-	25.3	Y	N	N
A2-9a-1	1	18.2	A2-9a	-	3.5	0	0	55.4	57.5	0	0	59.6	59.6	70	N	-	-	56.1	Y	N	N
A2-9a-1	2	21.4	A2-9a	-	3.5	0	0	55.4	57.3	0	0	59.5	59.5	70	N	-	-	56.0	Y	N	N
A2-9a-1	3	24.6	A2-9a	-	3.5	0	0	55.4	57.1	0	0	59.4	59.4	70	N	-	-	55.9	Y	N	N
A2-9a-1	4	27.8	A2-9a	-	3.5	0	0	55.4	56.9	0	0	59.2	59.2	70	N	-	-	55.7	Y	N	N
A2-9a-1	5	31	A2-9a	-	3.5	0	0	55.4	56.7	0	0	59.1	59.1	70	N	-	-	55.6	Y	N	N
A2-9a-1	6	34.2	A2-9a	-	3.5	0	0	55.4	56.5	0	0	59	59.0	70	N	-	-	55.5	Y	N	N
A2-9a-1	7	37.4	A2-9a	-	3.6	0	0	55.4	56.2	0	0	58.9	58.9	70	N	-	-	55.3	Y	N	N
A2-9a-1	8	40.6	A2-9a	-	4.5	0	0	55.4	56	0	0	58.8	58.8	70	N	-	-	54.3	Y	N	N
A2-9a-1	9	43.8	A2-9a	-	5.3	0	0	55.4	55.8	0	0	58.7	58.7	70	N	-	-	53.4	Y	N	N
A2-9a-1	10	47	A2-9a	-	5.9	0	0	55.5	55.6	0	0	58.6	58.6	70	N	-	-	52.7	Y	N	N
A2-9a-1	11	50.2	A2-9a	-	6.6	0	0	55.6	55.5	0	0	58.6	58.6	70	N	-	-	52.0	Y	N	N
A2-9a-1	12	53.4	A2-9a	-	7.4	0	0	55.8	55.3	0	0	58.6	58.6	70	N	-	-	51.2	Y	N	N
A2-9a-1	13	56.6	A2-9a	-	8.1	0	0	56.2	55.1	0	0	58.7	58.7	70	N	-	-	50.6	Y	N	N
A2-9a-1	14	59.8	A2-9a	-	8.9	0	0	56.5	54.9	0	0	58.8	58.8	70	N	-	-	49.9	Y	N	N
A2-9a-1	15	63	A2-9a	-	9.8	0	0	56.8	54.8	0	0	58.9	58.9	70	N	-	-	49.1	Y	N	N
A2-9a-1	16	66.2	A2-9a	-	10.6	0	0	57	54.6	0	0	59	59.0	70	N	-	-	48.4	Y	N	N
A2-9a-1	17	69.4	A2-9a	-	11.5	0	0	57.2	54.5	0	0	59	59.0	70	N	-	-	47.5	Y	N	N
A2-9a-1	18	72.6	A2-9a	-	12.4	0	0	57.3	54.3	0	0	59.1	59.1	70	N	-	-	46.7	Y	N	N
A2-9a-2	1	18.2	A2-9a	-	10.5	0	39.9	55.3	60.8	0	0	61.9	61.9	70	N	-	-	51.4	Y	N	N
A2-9a-2	2	21.4	A2-9a	-	10.5	0	40	55.4	60.7	0	0	61.8	61.8	70	N	-	-	51.3	Y	N	N
A2-9a-2	3	24.6	A2-9a	-	10.5	0	40.2	55.4	60.4	0	0	61.6	61.6	70	N	-	-	51.1	Y	N	N
A2-9a-2	4	27.8	A2-9a	-	10.5	0	40.4	55.4	60.3	0	0	61.5	61.5	70	N	-	-	51.0	Y	N	N
A2-9a-2	5	31	A2-9a	-	10.5	0	40.6	55.4	60	0	0	61.4	61.4	70	N	-	-	50.9	Y	N	N
A2-9a-2	6	34.2	A2-9a	-	10.5	0	40.8	55.5	59.8	0	0	61.2	61.2	70	N	-	-	50.7	Y	N	N
A2-9a-2	7	37.4	A2-9a	-	10.6	0	41.1	55.6	59.5	0	0	61	61.0	70	N	-	-	50.4	Y	N	N
A2-9a-2	8	40.6	A2-9a	-	10.6	0	41.5	55.7	59.3	0	0	60.9	60.9	70	N	-	-	50.3	Y	N	N
A2-9a-2	9	43.8	A2-9a	-	10.6	0	41.8	55.8	59	0	0	60.8	60.8	70	N	-	-	50.2	Y	N	N
A2-9a-2	10	47	A2-9a	-	10.6	0	42.3	56.2	58.8	0	0	60.7	60.7	70	N	-	-	50.1	Y	N	N
A2-9a-2	11	50.2	A2-9a	-	10.6	0	42.8	56.8	58.6	0	0	60.9	60.9	70	N	-	-	50.3	Y	N	N
A2-9a-2	12	53.4	A2-9a	-	10.6	0	43.5	57.7	58.4	0	0	61.2	61.2	70	N	-	-	50.6	Y	N	N
A2-9a-2	13	56.6	A2-9a	-	10.6	0	44.4	58.5	58.3	0	0	61.5	61.5	70	N	-	-	50.9	Y	N	N
A2-9a-2	14	59.8	A2-9a	-	10.7	0	45.6	59	58.1	0	0	61.7	61.7	70	N	-	-	51.0	Y	N	N
A2-9a-2	15	63	A2-9a	-	10.8	0	46.8	59.5	57.9	0	0	61.9	61.9	70	N	-	-	51.1	Y	N	N
A2-9a-2	16	66.2	A2-9a	-	11.1	0	48.2	59.8	57.8	0	0	62.1	62.1	70	N	-	-	51.0	Y	N	N
A2-9a-2	17	69.4	A2-9a	-	11.2	0	49	60.1	57.6	0	0	62.2	62.2	70	N	-	-	51.0	Y	N	N
A2-9a-2	18	72.6	A2-9a	-	11.8	0	49.5	60.3	57.4	0	0	62.3	62.3	70	N	-	-	50.5	Y	N	N
A2-9a-3	1	18.2	A2-9a	-	11.2	0	38.5	49.3	59.6	0	0	60	60.0	70	N	-	-	48.8	Y	N	N
A2-9a-3	2	21.4	A2-9a	-	11.2	0	38.9	49.4	59.5	0	0	60	60.0	70	N	-	-	48.8	Y	N	N
A2-9a-3	3	24.6	A2-9a	-	11.2	0	39.3	49.6	59.3	0	0	59.8	59.8	70	N	-	-	48.6	Y	N	N
A2-9a-3	4	27.8	A2-9a	-	11.3	0	39.7	49.8	59.2	0	0	59.7	59.7	70	N	-	-	48.4	Y	N	N
A2-9a-3	5	31	A2-9a	-	11.3	0	40.2	50	58.9	0	0	59.5	59.5	70	N	-	-	48.2	Y	N	N
A2-9a-3	6	34.2	A2-9a	-	11.3	0	40.6	50.4	58.6	0	0	59.3	59.3	70	N	-	-	48.0	Y	N	N
A2-9a-3	7	37.4	A2-9a	-	11.3	0	41.1	50.8	58.4	0	0	59.2	59.2	70	N	-	-	47.9	Y	N	N
A2-9a-3	8	40.6	A2-9a	-	11.3	0	41.7	51.3	58.2	0	0	59.1	59.1	70	N	-	-	47.8	Y	N	N
A2-9a-3	9	43.8	A2-9a	-	11.3	0	42.4	52.1	58.2	0	0	59.2	59.2	70	N	-	-	47.9	Y	N	N
A2-9a-3	10	47	A2-9a	-	11.3	0	43.2	53.3	58.3	0	0	59.6	59.6	70	N	-	-	48.3	Y	N	N
A2-9a-3	11	50.2	A2-9a	-	11.3	0	44.4	55.1	58.4	0	0	60.2	60.2	70	N	-	-	48.9	Y	N	N
A2-9a-3	12	53.4	A2-9a	-	11.3	0	46.1	56.9	58.4	0	0	60.9	60.9	70	N	-	-	49.6	Y	N	N
A2-9a-3	13	56.6	A2-9a	-	11.3	0	47.7	58.2	58.3	0	0	61.4	61.4	70	N	-	-	50.1	Y	N	N
A2-9a-3	14	59.8	A2-9a	-	11.5	0	49.6	59.1	58.2	0	0	61.9	61.9	70	N	-	-	50.4	Y	N	N
A2-9a-3	15	63	A2-9a	-	11.5	0	50.5	59.6	58	0	0	62.2	62.2	70	N	-	-	50.7	Y	N	N
A2-9a-3	16	66.2	A2-9a	-	11.6	0	50.9	59.8	58	0	0	62.3	62.3	70	N	-	-	50.7	Y	N	N
A2-9a-3	17	69.4	A2-9a	-	12.1	0	51.2	60	57.9	0	0	62.4	62.4	70	N	-	-	50.3	Y	N	N
A2-9a-3	18	72.6	A2-9a	-	12.6	0	51.3	60.2	57.8	0	0	62.5	62.5	70	N	-	-	49.9	Y	N	N
A2-9b-1	1	18.2	A2-9b	-	12	0	56	42.9	60.5	0	0	61.8	61.8	70	N	-	-	49.8	Y	N	N
A2-9b-1	2	21.4	A2-9b	-	12.1	0	56	43.5	60.3	0	0	61.7	61.7	70	N	-	-	49.6	Y	N	N
A2-9b-1	3	24.6	A2-9b	-	12.1	0	56	44.2	60	0	0	61.5	61.5	70	N	-	-	49.4	Y	N	N
A2-9b-1	4	27.8	A2-9b	-	12.1	0	56	45	59.8	0	0	61.4	61.4	70	N	-	-	49.3	Y	N	N
A2-9b-1	5	31	A2-9b	-	12.1	0	56	46	59.5	0	0	61.2	61.2	70	N	-	-	49.1	Y	N	N
A2-9b-1	6	34.2	A2-9b	-	12.1	0	56	47.2	59.3	0	0	61.2	61.2	70	N	-	-	49.1	Y	N	N
A2-9b-1	7	37.4	A2-9b	-	12.1	0	56	48.7	59	0	0	61.1	61.1	70	N	-	-	49.0	Y	N	N
A2-9b-1	8	40.6	A2-9b	-	12.1	0	56.1	50.8	58.8	0	0	61.1	61.1	70	N	-	-	49.0	Y	N	N
A2-9b-1	9	43.8	A2-9b	-	12.1	0	56.1	53.8	58.7	0	0	61.4	61.4	70	N	-	-	49.3	Y	N	N
A2-9b-1	10	47	A2-9b	-	12.1	0	56.2	56.5	58.6	0	0	62	62.0	70	N	-	-	49.9	Y	N	N
A2-9b-1	11	50.2	A2-9b	-	12.2	0	56.3	58.1	58.5	0	0	62.5	62.5	70	N	-	-	50.3	Y	N	N
A2-9b-1	12	53.4	A2-9b	-	12.2	0	56.4	58.9	58.3	0	0	62.8	62.8	70	N	-	-	50.6	Y	N	N
A2-9b-1	13	56.6	A2-9b	-	12.2	0	56.5	59.3	58.2	0	0	62.9	62.9	70	N	-	-	50.7	Y	N	N
A2-9b-1	14	59.8	A2-9b	-	12.2	0	56.5	59.6	58	0	0	63	63.0	70	N	-	-	50.8	Y	N	N
A2-9b-1	15	63	A2-9b	-	12.2	0	56.5	59.9	57.9	0	0	63.1	63.1	70	N	-	-	50.9	Y	N	N
A2-9b-1	16	66.2	A2-9b	-	12.3	0	56.5	60.1	57.7	0	0	63.1	63.1	70	N	-	-	50.8	Y	N	N
A2-9b-1	17	69.4	A2-9b	-	12.9	0	56.5	60.3	57.7	0	0	63.2	63.2	70	N	-	-	50.3	Y	N	N
A2-9b-1	18	72.6	A2-9b	-	13.5	0	56.6	60.5	57.6	0	0	63.3	63.3	70	N	-	-	49.8	Y	N	N
A2-9b-1	19	75.8	A2-9b	-	14.1	0	56.6	60.6	57.5	0	0	63.4	63.4	70	N	-	-	49.3	Y	N	N
A2-9b-2	1	18.2	A2-9b	-	18.3	0	63.5	58.9	56.9	0	0	65.5	65.5	70	N	-	-	47.2	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	New Roads[2]						Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]				C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
A2-9b-2	2	21.4	A2-9b	-	18.7	0	63.5	59	56.7	0	0	65.5	65.5	70	N	-	-	46.8	Y	N	N
A2-9b-2	3	24.6	A2-9b	-	19	0	63.5	59.1	56.5	0	0	65.4	65.4	70	N	-	-	46.4	Y	N	N
A2-9b-2	4	27.8	A2-9b	-	19.4	0	63.5	59.3	56.4	0	0	65.4	65.4	70	N	-	-	46.0	Y	N	N
A2-9b-2	5	31	A2-9b	-	19.8	0	63.5	59.3	56.3	0	0	65.4	65.4	70	N	-	-	45.6	Y	N	N
A2-9b-2	6	34.2	A2-9b	-	20.3	0	63.4	59.4	56.1	0	0	65.4	65.4	70	N	-	-	45.1	Y	N	N
A2-9b-2	7	37.4	A2-9b	-	20.7	0	63.4	59.4	56.1	0	0	65.4	65.4	70	N	-	-	44.7	Y	N	N
A2-9b-2	8	40.6	A2-9b	-	21.2	0	63.4	59.4	56	0	0	65.4	65.4	70	N	-	-	44.2	Y	N	N
A2-9b-2	9	43.8	A2-9b	-	21.6	0	63.3	59.5	55.9	0	0	65.4	65.4	70	N	-	-	43.8	Y	N	N
A2-9b-2	10	47	A2-9b	-	22	0	63.3	59.5	55.9	0	0	65.4	65.4	70	N	-	-	43.4	Y	N	N
A2-9b-2	11	50.2	A2-9b	-	22.4	0	63.3	59.6	55.8	0	0	65.4	65.4	70	N	-	-	43.0	Y	N	N
A2-9b-2	12	53.4	A2-9b	-	22.9	0	63.3	59.8	55.8	0	0	65.4	65.4	70	N	-	-	42.5	Y	N	N
A2-9b-2	13	56.6	A2-9b	-	23.3	0	63.3	60	55.8	0	0	65.5	65.5	70	N	-	-	42.2	Y	N	N
A2-9b-2	14	59.8	A2-9b	-	23.8	0	63.3	60.3	55.9	0	0	65.6	65.6	70	N	-	-	41.8	Y	N	N
A2-9b-2	15	63	A2-9b	-	24.3	0	63.5	60.6	55.8	0	0	65.7	65.7	70	N	-	-	41.4	Y	N	N
A2-9b-2	16	66.2	A2-9b	-	25	0	63.6	60.8	55.7	0	0	65.9	65.9	70	N	-	-	40.9	Y	N	N
A2-9b-2	17	69.4	A2-9b	-	25.6	0	63.7	60.9	55.6	0	0	66	66.0	70	N	-	-	40.4	Y	N	N
A2-9b-2	18	72.6	A2-9b	-	26.3	0	64	61	55.5	0	0	66.1	66.1	70	N	-	-	39.8	Y	N	N
A2-9b-2	19	75.8	A2-9b	-	26.9	0	64.2	61.2	55.4	0	0	66.3	66.3	70	N	-	-	39.4	Y	N	N
A2-9b-3	1	18.2	A2-9b	-	30.4	0	69	58	52	0	0	69.4	69.4	70	N	-	-	39.0	Y	N	N
A2-9b-3	2	21.4	A2-9b	-	31	0	69	58.1	52.1	0	0	69.4	69.4	70	N	-	-	38.4	Y	N	N
A2-9b-3	3	24.6	A2-9b	-	31.6	0	68.9	58.3	52.2	0	0	69.3	69.3	70	N	-	-	37.7	Y	N	N
A2-9b-3	4	27.8	A2-9b	-	32.3	0	68.9	58.5	52.4	0	0	69.4	69.4	70	N	-	-	37.1	Y	N	N
A2-9b-3	5	31	A2-9b	-	33	0	68.8	58.7	52.7	0	0	69.3	69.3	70	N	-	-	36.3	Y	N	N
A2-9b-3	6	34.2	A2-9b	-	33.8	0	68.8	58.8	53	0	0	69.3	69.3	70	N	-	-	35.5	Y	N	N
A2-9b-3	7	37.4	A2-9b	-	34.8	0	68.7	58.9	53.2	0	0	69.3	69.3	70	N	-	-	34.5	Y	N	N
A2-9b-3	8	40.6	A2-9b	-	35.7	0	68.7	59	53.4	0	0	69.3	69.3	70	N	-	-	33.6	Y	N	N
A2-9b-3	9	43.8	A2-9b	-	36.3	0	68.6	59	53.6	0	0	69.2	69.2	70	N	-	-	32.9	Y	N	N
A2-9b-3	10	47	A2-9b	-	37.5	0	68.6	59.1	53.8	0	0	69.2	69.2	70	N	-	-	31.7	Y	N	N
A2-9b-3	11	50.2	A2-9b	-	38.3	0	68.5	59.2	53.9	0	0	69.1	69.1	70	N	-	-	30.8	Y	N	N
A2-9b-3	12	53.4	A2-9b	-	38.9	0	68.5	59.2	53.9	0	0	69.1	69.1	70	N	-	-	30.2	Y	N	N
A2-9b-3	13	56.6	A2-9b	-	39.3	0	68.4	59.3	53.9	0	0	69.1	69.1	70	N	-	-	29.8	Y	N	N
A2-9b-3	14	59.8	A2-9b	-	39.8	0	68.4	59.3	54	0	0	69.1	69.1	70	N	-	-	29.3	Y	N	N
A2-9b-3	15	63	A2-9b	-	40.1	0	68.4	59.4	54	0	0	69.1	69.1	70	N	-	-	29.0	Y	N	N
A2-9b-3	16	66.2	A2-9b	-	40.3	0	68.4	59.5	54	0	0	69.1	69.1	70	N	-	-	28.8	Y	N	N
A2-9b-3	17	69.4	A2-9b	-	40.6	0	68.4	59.5	54	0	0	69.1	69.1	70	N	-	-	28.5	Y	N	N
A2-9b-3	18	72.6	A2-9b	-	40.9	0	68.4	59.5	53.9	0	0	69.1	69.1	70	N	-	-	28.2	Y	N	N
A2-9b-3	19	75.8	A2-9b	-	41.2	0	68.4	59.6	53.9	0	0	69	69.0	70	N	-	-	27.8	Y	N	N
A2-9b-4	1	18.7	A2-9b	-	37.4	0	69.9	56.1	50.6	0	0	70.1	70.1	70	N	-	-	32.7	Y	N	N
A2-9b-4	2	21.9	A2-9b	-	37.7	0	69.8	56.2	50.8	0	0	70	70.0	70	N	-	-	32.3	Y	N	N
A2-9b-4	3	25.1	A2-9b	-	38	0	69.8	56.3	51.1	0	0	70	70.0	70	N	-	-	32.0	Y	N	N
A2-9b-4	4	28.3	A2-9b	-	38.3	0	69.8	56.5	51.4	0	0	70	70.0	70	N	-	-	31.7	Y	N	N
A2-9b-4	5	31.5	A2-9b	-	38.9	0	69.7	56.7	51.8	0	0	70	70.0	70	N	-	-	31.1	Y	N	N
A2-9b-4	6	34.7	A2-9b	-	39.3	0	69.6	56.9	52.2	0	0	69.9	69.9	70	N	-	-	30.6	Y	N	N
A2-9b-4	7	37.9	A2-9b	-	40	0	69.6	57.1	52.5	0	0	69.9	69.9	70	N	-	-	29.9	Y	N	N
A2-9b-4	8	41.1	A2-9b	-	40.7	0	69.5	57.2	52.7	0	0	69.9	69.9	70	N	-	-	29.2	Y	N	N
A2-9b-4	9	44.3	A2-9b	-	41.5	0	69.4	57.4	52.9	0	0	69.8	69.8	70	N	-	-	28.3	Y	N	N
A2-9b-4	10	47.5	A2-9b	-	42	0	69.4	57.4	53	0	0	69.8	69.8	70	N	-	-	27.8	Y	N	N
A2-9b-4	11	50.7	A2-9b	-	42.5	0	69.3	57.5	53.1	0	0	69.7	69.7	70	N	-	-	27.2	Y	N	N
A2-9b-4	12	53.9	A2-9b	-	42.8	0	69.3	57.6	53.1	0	0	69.6	69.7	70	N	-	-	26.9	Y	N	N
A2-9b-4	13	57.1	A2-9b	-	43.1	0	69.2	57.7	53.2	0	0	69.6	69.6	70	N	-	-	26.5	Y	N	N
A2-9b-4	14	60.3	A2-9b	-	43.1	0	69.1	57.7	53.2	0	0	69.5	69.5	70	N	-	-	26.4	Y	N	N
A2-9b-4	15	63.5	A2-9b	-	43.3	0	69.1	57.7	53.2	0	0	69.5	69.5	70	N	-	-	26.2	Y	N	N
A2-9b-4	16	66.7	A2-9b	-	43.4	0	69	57.8	53.2	0	0	69.4	69.4	70	N	-	-	26.0	Y	N	N
A2-9b-4	17	69.9	A2-9b	-	43.5	0	68.9	57.8	53.2	0	0	69.3	69.3	70	N	-	-	25.8	Y	N	N
A2-9b-4	18	73.1	A2-9b	-	43.6	0	68.8	57.9	53.2	0	0	69.3	69.3	70	N	-	-	25.7	Y	N	N
A2-9b-4	19	76.3	A2-9b	-	43.7	0	68.8	57.9	53.2	0	0	69.2	69.2	70	N	-	-	25.5	Y	N	N
A2-9b-5	1	18.2	A2-9b	-	30.7	0	70.4	55	50.4	0	0	70.6	70.6	70	Y	-	-	39.9	Y	Y	Y
A2-9b-5	2	21.4	A2-9b	-	31.3	0	70.4	55.1	50.6	0	0	70.6	70.6	70	Y	-	-	39.3	Y	Y	Y
A2-9b-5	3	24.6	A2-9b	-	31.9	0	70.3	55.1	51	0	0	70.5	70.5	70	Y	-	-	38.6	Y	Y	Y
A2-9b-5	4	27.8	A2-9b	-	32.5	0	70.3	55.2	51.7	0	0	70.5	70.5	70	Y	-	-	38.0	Y	Y	Y
A2-9b-5	5	31	A2-9b	-	33.2	0	70.3	55.3	52.2	0	0	70.5	70.5	70	Y	-	-	37.3	Y	Y	Y
A2-9b-5	6	34.2	A2-9b	-	34	0	70.2	55.4	52.5	0	0	70.4	70.4	70	N	-	-	36.4	Y	N	N
A2-9b-5	7	37.4	A2-9b	-	34.9	0	70.1	55.5	52.7	0	0	70.4	70.4	70	N	-	-	35.5	Y	N	N
A2-9b-5	8	40.6	A2-9b	-	35.8	0	70.1	55.7	52.7	0	0	70.3	70.3	70	N	-	-	34.5	Y	N	N
A2-9b-5	9	43.8	A2-9b	-	36.7	0	70	55.8	52.7	0	0	70.2	70.2	70	N	-	-	33.5	Y	N	N
A2-9b-5	10	47	A2-9b	-	37.7	0	70	55.9	52.8	0	0	70.2	70.2	70	N	-	-	32.5	Y	N	N
A2-9b-5	11	50.2	A2-9b	-	38.7	0	70	56	52.7	0	0	70.2	70.2	70	N	-	-	31.5	Y	N	N
A2-9b-5	12	53.4	A2-9b	-	39.5	0	69.9	56	52.7	0	0	70.2	70.2	70	N	-	-	30.7	Y	N	N
A2-9b-5	13	56.6	A2-9b	-	40.6	0	69.9	56	52.7	0	0	70.1	70.1	70	N	-	-	29.5	Y	N	N
A2-9b-5	14	59.8	A2-9b	-	41.4	0	69.8	56	52.7	0	0	70	70.1	70	N	-	-	28.7	Y	N	N
A2-9b-5	15	63	A2-9b	-	42.2	0	69.7	56	52.7	0	0	70	70.0	70	N	-	-	27.8	Y	N	N
A2-9b-5	16	66.2	A2-9b	-	43.2	0	69.6	56	52.6	0	0	69.9	69.9	70	N	-	-	26.7	Y	N	N
A2-9b-5	17	69.4	A2-9b	-	43.8	0	69.5	56.1	52.6	0	0	69.8	69.8	70	N	-	-	26.0	Y	N	N
A2-9b-5	18	72.6	A2-9b	-	44.6	0	69.4	56.1	52.6	0	0	69.7	69.7	70	N	-	-	25.1	Y	N	N
A2-9b-5	19	75.8	A2-9b	-	45.2	0	69.4	56.1	52.6	0	0	69.6	69.7	70	N	-	-	24.5	Y	N	N
A2-9b-6	1	18.2	A2-9b	-	27.2	0	70.1	57	53.5	0	0	70.4	70.4	70	N	-	-	43.2	Y	N	N
A2-9b-6	2	21.4	A2-9b	-	27.8	0	70.1	57	53.6	0	0	70.4	70.4	70	N	-	-	42.6	Y	N	N
A2-9b-6	3	24.6	A2-9b	-	28.4	0	70.1	57	53.9	0	0	70.4	70.4	70	N	-	-	42.0	Y	N	N
A2-9b-6	4	27.8	A2-9b	-	29.1	0	70.1	57	54.2	0	0	70.4	70.4	70	N	-	-	41.3	Y	N	N
A2-9b-6	5	31	A2-9b	-	29.8	0	70	57	54.3	0	0	70.4	70.4	70	N	-	-	40.6	Y	N	N
A2-9b-6	6	34.2	A2-9b	-	30.5	0	70	57.1	54.3	0	0	70.3	70.3	70	N	-	-	39.8	Y	N	N
A2-9b-6	7	37.4	A2-9b	-	31.3	0	70	57.1	54.3	0	0	70.3	70.3	70	N	-	-	39.0	Y	N	N
A2-9b-6	8	40.6	A2-9b	-	32.1	0	69.9	57.2	54.3	0	0	70.3	70.3	70	N	-	-	38.2	Y	N	N
A2-9b-6	9	43.8	A2-9b	-	33	0	70	57.2	54.3	0	0	70.3	70.3	70	N	-	-	37.3	Y	N	N
A2-9b-6	10	47	A2-9b	-	34	0	70	57.2	54.3	0	0	70.3	70.3	70	N	-	-	36.3	Y	N	N
A2-9b-6	11	50.2	A2-9b	-	35.2	0	70.1	57.3	54.2	0	0	70.4	70.4	70	N	-	-	35.2	Y	N	N
A2-9b-6	12	53.4	A2-9b	-	36.4	0	70.1	57.3	54.2	0	0	70.4	70.4	70	N	-	-	34.0	Y	N	N
A2-9b-6	13	56.6	A2-9b	-	37.8	0	70	57.3	54.2	0	0	70.4	70.4	70	N	-	-	32.6	Y	N	N
A2-9b-6	14	59.8	A2-9b	-	39	0	70	57.3	54.2	0	0	70.3	70.3	70	N	-	-	31.3	Y	N	N
A2-9b-6	15	63	A2-9b	-	40.3	0	69.9	57.3	54.1	0	0	70.2	70.3	70	N	-	-	30.0	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	New Roads[2]						Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]				C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
A2-9b-6	16	66.2	A2-9b	-	41.4	0	69.8	57.3	54.1	0	0	70.2	70.2	70	N	-	-	28.8	Y	N	N
A2-9b-6	17	69.4	A2-9b	-	42	0	69.7	57.2	54	0	0	70.1	70.1	70	N	-	-	28.1	Y	N	N
A2-9b-6	18	72.6	A2-9b	-	42.6	0	69.7	57.2	54	0	0	70	70.0	70	N	-	-	27.4	Y	N	N
A2-9b-6	19	75.8	A2-9b	-	43.1	0	69.6	57.2	54	0	0	69.9	69.9	70	N	-	-	26.8	Y	N	N
A2-9b-7	1	18.2	A2-9b	-	20.9	0	67.9	56.9	53.2	0	0	68.4	68.4	70	N	-	-	47.5	Y	N	N
A2-9b-7	2	21.4	A2-9b	-	21.3	0	68.1	56.9	53.3	0	0	68.5	68.5	70	N	-	-	47.2	Y	N	N
A2-9b-7	3	24.6	A2-9b	-	21.8	0	68.2	56.9	53.7	0	0	68.6	68.6	70	N	-	-	46.8	Y	N	N
A2-9b-7	4	27.8	A2-9b	-	22.3	0	68.2	56.9	54.2	0	0	68.7	68.7	70	N	-	-	46.4	Y	N	N
A2-9b-7	5	31	A2-9b	-	22.8	0	68.2	56.9	54.4	0	0	68.7	68.7	70	N	-	-	45.9	Y	N	N
A2-9b-7	6	34.2	A2-9b	-	23.5	0	68.2	56.9	54.4	0	0	68.7	68.7	70	N	-	-	45.2	Y	N	N
A2-9b-7	7	37.4	A2-9b	-	24.2	0	68.2	56.9	54.4	0	0	68.6	68.6	70	N	-	-	44.4	Y	N	N
A2-9b-7	8	40.6	A2-9b	-	25	0	68.1	56.8	54.3	0	0	68.6	68.6	70	N	-	-	43.6	Y	N	N
A2-9b-7	9	43.8	A2-9b	-	25.8	0	68.1	56.8	54.3	0	0	68.6	68.6	70	N	-	-	42.8	Y	N	N
A2-9b-7	10	47	A2-9b	-	26.8	0	68.1	56.8	54.2	0	0	68.6	68.6	70	N	-	-	41.8	Y	N	N
A2-9b-7	11	50.2	A2-9b	-	27.9	0	68.2	56.8	54.2	0	0	68.6	68.6	70	N	-	-	40.7	Y	N	N
A2-9b-7	12	53.4	A2-9b	-	29.3	0	68.2	56.7	54.2	0	0	68.6	68.6	70	N	-	-	39.3	Y	N	N
A2-9b-7	13	56.6	A2-9b	-	30.8	0	68.3	56.7	54.1	0	0	68.7	68.7	70	N	-	-	37.9	Y	N	N
A2-9b-7	14	59.8	A2-9b	-	32.6	0	68.3	56.7	54.1	0	0	68.8	68.8	70	N	-	-	36.2	Y	N	N
A2-9b-7	15	63	A2-9b	-	33.9	0	68.3	56.6	54	0	0	68.8	68.8	70	N	-	-	34.9	Y	N	N
A2-9b-7	16	66.2	A2-9b	-	35.4	0	68.3	56.6	53.9	0	0	68.7	68.7	70	N	-	-	33.3	Y	N	N
A2-9b-7	17	69.4	A2-9b	-	36.3	0	68.2	56.6	53.9	0	0	68.7	68.7	70	N	-	-	32.4	Y	N	N
A2-9b-7	18	72.6	A2-9b	-	36.8	0	68.2	56.5	53.9	0	0	68.6	68.6	70	N	-	-	31.8	Y	N	N
A2-9b-7	19	75.8	A2-9b	-	37.1	0	68.1	56.5	53.8	0	0	68.6	68.6	70	N	-	-	31.5	Y	N	N
A2-11-1	1	12.2	A2-11	-	0	0	0	62.6	58.1	0	0	64	64.0	65	N	-	-	64.0	Y	N	N
A2-11-1	2	15.2	A2-11	-	0	0	0	62.6	58.1	0	0	63.9	63.9	65	N	-	-	63.9	Y	N	N
A2-11-1	3	18.2	A2-11	-	0	0	0	62.5	58	0	0	63.8	63.8	65	N	-	-	63.8	Y	N	N
A2-11-1	4	21.2	A2-11	-	0	0	0	62.5	58	0	0	63.8	63.8	65	N	-	-	63.8	Y	N	N
A2-11-1	5	24.2	A2-11	-	0	0	0	62.3	58	0	0	63.7	63.7	65	N	-	-	63.7	Y	N	N
A2-11-1	6	27.2	A2-11	-	0	0	0	62.2	57.9	0	0	63.6	63.6	65	N	-	-	63.6	Y	N	N
A2-11-1	7	30.2	A2-11	-	0	0	0	62.1	57.8	0	0	63.5	63.5	65	N	-	-	63.5	Y	N	N
A2-11-1	8	33.2	A2-11	-	0	0	0	62	57.7	0	0	63.4	63.4	65	N	-	-	63.4	Y	N	N
A2-11-2	1	12.2	A2-11	-	0	0	0	63.2	59.2	0	0	64.7	64.7	65	N	-	-	64.7	Y	N	N
A2-11-2	2	15.2	A2-11	-	0	0	0	63.2	59.2	0	0	64.6	64.6	65	N	-	-	64.6	Y	N	N
A2-11-2	3	18.2	A2-11	-	0	0	0	63.2	59.2	0	0	64.6	64.6	65	N	-	-	64.6	Y	N	N
A2-11-2	4	21.2	A2-11	-	0	0	0	63.2	59.1	0	0	64.6	64.6	65	N	-	-	64.6	Y	N	N
A2-11-2	5	24.2	A2-11	-	0	0	0	63.1	59	0	0	64.5	64.5	65	N	-	-	64.5	Y	N	N
A2-11-2	6	27.2	A2-11	-	0	0	0	63.1	58.9	0	0	64.5	64.5	65	N	-	-	64.5	Y	N	N
A2-11-2	7	30.2	A2-11	-	0	0	0	63.1	58.8	0	0	64.4	64.4	65	N	-	-	64.4	Y	N	N
A2-11-2	8	33.2	A2-11	-	0	0	0	63	58.6	0	0	64.4	64.4	65	N	-	-	64.4	Y	N	N
A2-11-3	1	12.2	A2-11	-	2.7	0	51.1	18.5	59.8	0	0	60.3	60.3	65	N	-	-	57.6	Y	N	N
A2-11-3	2	15.2	A2-11	-	2.7	0	51.1	18.6	59.7	0	0	60.2	60.2	65	N	-	-	57.5	Y	N	N
A2-11-3	3	18.2	A2-11	-	2.7	0	51.1	18.6	59.6	0	0	60.2	60.2	65	N	-	-	57.5	Y	N	N
A2-11-3	4	21.2	A2-11	-	2.7	0	51.1	18.6	59.5	0	0	60.1	60.1	65	N	-	-	57.4	Y	N	N
A2-11-3	5	24.2	A2-11	-	2.7	0	51.1	18.6	59.2	0	0	59.9	59.9	65	N	-	-	57.2	Y	N	N
A2-11-3	6	27.2	A2-11	-	2.7	0	51.1	18.6	59.1	0	0	59.8	59.8	65	N	-	-	57.1	Y	N	N
A2-11-3	7	30.2	A2-11	-	2.2	0	51.1	18.6	58.9	0	0	59.5	59.5	65	N	-	-	57.3	Y	N	N
A2-11-3	8	33.2	A2-11	-	2.3	0	51.1	18.6	58.6	0	0	59.3	59.3	65	N	-	-	57.0	Y	N	N
A2-12-1	1	12.2	A2-12	-	0	0	54.9	17.5	59.7	0	0	61	61.0	65	N	-	-	61.0	Y	N	N
A2-12-1	2	15.2	A2-12	-	0	0	54.9	17.5	59.6	0	0	60.9	60.9	65	N	-	-	60.9	Y	N	N
A2-12-1	3	18.2	A2-12	-	0	0	54.8	17.5	59.5	0	0	60.8	60.8	65	N	-	-	60.8	Y	N	N
A2-12-1	4	21.2	A2-12	-	0	0	54.8	17.5	59.4	0	0	60.7	60.7	65	N	-	-	60.7	Y	N	N
A2-12-1	5	24.2	A2-12	-	0	0	54.8	17.5	59.3	0	0	60.6	60.6	65	N	-	-	60.6	Y	N	N
A2-12-1	6	27.2	A2-12	-	0	0	54.8	17.5	59.2	0	0	60.5	60.5	65	N	-	-	60.5	Y	N	N
A2-12-1	7	30.2	A2-12	-	0	0	54.8	17.5	58.9	0	0	60.3	60.3	65	N	-	-	60.3	Y	N	N
A2-12-1	8	33.2	A2-12	-	0	0	54.8	17.5	58.6	0	0	60.1	60.1	65	N	-	-	60.1	Y	N	N
A2-12-2	1	12.2	A2-12	-	0	0	0	58.5	52.4	0	0	59.4	59.4	65	N	-	-	59.4	Y	N	N
A2-12-2	2	15.2	A2-12	-	0	0	0	58.5	52.4	0	0	59.4	59.4	65	N	-	-	59.4	Y	N	N
A2-12-2	3	18.2	A2-12	-	0	0	0	58.5	52.4	0	0	59.4	59.4	65	N	-	-	59.4	Y	N	N
A2-12-2	4	21.2	A2-12	-	0	0	0	58.5	52.4	0	0	59.5	59.5	65	N	-	-	59.5	Y	N	N
A2-12-2	5	24.2	A2-12	-	0	0	0	58.6	52.4	0	0	59.5	59.5	65	N	-	-	59.5	Y	N	N
A2-12-2	6	27.2	A2-12	-	0	0	0	58.6	52.4	0	0	59.5	59.5	65	N	-	-	59.5	Y	N	N
A2-12-2	7	30.2	A2-12	-	0	0	0	58.7	52.3	0	0	59.6	59.6	65	N	-	-	59.6	Y	N	N
A2-12-2	8	33.2	A2-12	-	0	0	0	58.7	52.3	0	0	59.6	59.6	65	N	-	-	59.6	Y	N	N
A2-12-3	1	12.2	A2-12	-	0	0	0	60.5	52.3	0	0	61.1	61.1	65	N	-	-	61.1	Y	N	N
A2-12-3	2	15.2	A2-12	-	0	0	0	60.5	52.3	0	0	61.2	61.2	65	N	-	-	61.2	Y	N	N
A2-12-3	3	18.2	A2-12	-	0	0	0	60.5	52.3	0	0	61.2	61.2	65	N	-	-	61.2	Y	N	N
A2-12-3	4	21.2	A2-12	-	0	0	0	60.5	52.4	0	0	61.2	61.2	65	N	-	-	61.2	Y	N	N
A2-12-3	5	24.2	A2-12	-	0	0	0	60.5	52.5	0	0	61.2	61.2	65	N	-	-	61.2	Y	N	N
A2-12-3	6	27.2	A2-12	-	0	0	0	60.6	52.7	0	0	61.2	61.2	65	N	-	-	61.2	Y	N	N
A2-12-3	7	30.2	A2-12	-	0	0	0	60.5	52.8	0	0	61.2	61.2	65	N	-	-	61.2	Y	N	N
A2-12-3	8	33.2	A2-12	-	0	0	0	60.6	52.8	0	0	61.3	61.3	65	N	-	-	61.3	Y	N	N
A2-13-1	1	12.2	A2-13	-	0	0	58.6	16.6	60.6	0	0	62.8	62.8	65	N	-	-	62.8	Y	N	N
A2-13-1	2	15.2	A2-13	-	0	0	58.6	16.6	60.6	0	0	62.7	62.7	65	N	-	-	62.7	Y	N	N
A2-13-1	3	18.2	A2-13	-	0	0	58.6	16.6	60.4	0	0	62.7	62.7	65	N	-	-	62.7	Y	N	N
A2-13-1	4	21.2	A2-13	-	0	0	58.6	16.6	60.3	0	0	62.6	62.6	65	N	-	-	62.6	Y	N	N
A2-13-1	5	24.2	A2-13	-	0	0	58.6	16.6	60.1	0	0	62.4	62.4	65	N	-	-	62.4	Y	N	N
A2-13-1	6	27.2	A2-13	-	0	0	58.6	16.6	59.9	0	0	62.3	62.3	65	N	-	-	62.3	Y	N	N
A2-13-1	7	30.2	A2-13	-	0	0	58.6	16.6	59.6	0	0	62.2	62.2	65	N	-	-	62.2	Y	N	N
A2-13-1	8	33.2	A2-13	-	0	0	58.6	16.6	59.4	0	0	62.1	62.1	65	N	-	-	62.1	Y	N	N
A2-13-2	1	12.2	A2-13	-	21.4	5.7	62.5	58.2	51.4	0	0	64.1	64.1	65	N	-	-	42.6	Y	N	N
A2-13-2	2	15.2	A2-13	-	23.2	5.7	62.5	58.3	51.5	0	0	64.1	64.1	65	N	-	-	40.8	Y	N	N
A2-13-2	3	18.2	A2-13	-	25.8	5.8	62.5	58.4	51.5	0	0	64.1	64.1	65	N	-	-	39.3	Y	N	N
A2-13-2	4	21.2	A2-13	-	30	5.8	62.4	58.6	51.6	0	0	64.2	64.2	65	N	-	-	34.2	Y	N	N
A2-13-2	5	24.2	A2-13	-	32	5.9	62.4	59	51.8	0	0	64.3	64.3	65	N	-	-	32.3	Y	N	N
A2-13-2	6	27.2	A2-13	-	32.2	5.9	62.4	59.8	52.2	0	0	64.6	64.6	65	N	-	-	32.4	Y	N	N
A2-13-2	7	30.2	A2-13	-	32.4	6	62.4	60.6	52.7	0	0	64.9	64.9	65	N	-	-	32.5	Y	N	N
A2-13-2	8	33.2	A2-13	-	32.5	6	62.5	61.2	53.2	0	0	65.2	65.2	65	N	-	-	32.7	Y	N	N
A2-13-3	1	12.2	A2-13	-	24	5.5	58.2	58.1	50.5	0	0	61.5	61.5	65	N	-	-	37.4	Y	N	N
A2-13-3	2	15.2	A2-13	-	26.8	5.5	58.2	58.3	50.5	0	0	61.6	61.6	65	N	-	-	34.8	Y	N	N
A2-13-3	3	18.2	A2-13	-	29.7	5.6	58.2	58.6	50.7	0	0	61.7	61.7	65	N	-	-	32.0	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
A2-13-3	4	21.2	A2-13	-	31	5.7	58.2	58.9	51	0	0	61.9	61.9	65	N	-	-	30.9	Y	N	N
A2-13-3	5	24.2	A2-13	-	31.8	5.7	58.2	59.8	51.7	0	0	62.4	62.4	65	N	-	-	30.6	Y	N	N
A2-13-3	6	27.2	A2-13	-	32.1	5.8	58.2	61.4	52.8	0	0	63.5	63.5	65	N	-	-	31.4	Y	N	N
A2-13-3	7	30.2	A2-13	-	32.3	5.8	58.1	62.9	53.7	0	0	64.5	64.5	65	N	-	-	32.2	Y	N	N
A2-13-3	8	33.2	A2-13	-	32.5	5.9	58.1	64	54.3	0	0	65.4	65.4	65	N	-	-	32.9	Y	N	N
A3-1-1	1	21.2	A3-1	-	0	0	56.3	61.7	43.8	0	0	62.9	62.9	65	N	-	-	62.9	Y	N	N
A3-1-1	2	24.2	A3-1	-	0	0	56.3	61.8	43.9	0	0	63	63.0	65	N	-	-	63.0	Y	N	N
A3-1-1	3	27.2	A3-1	-	0	0	56.4	61.9	43.8	0	0	63	63.0	65	N	-	-	63.0	Y	N	N
A3-1-1	4	30.2	A3-1	-	0	0	56.6	62	43.8	0	0	63.1	63.1	65	N	-	-	63.1	Y	N	N
A3-1-1	5	33.2	A3-1	-	0	0	56.9	62.1	43.8	0	0	63.3	63.3	65	N	-	-	63.3	Y	N	N
A3-1-1	6	36.2	A3-1	-	0	0	57.6	62.4	43.7	0	0	63.7	63.7	65	N	-	-	63.7	Y	N	N
A3-1-1	7	39.2	A3-1	-	0	0	58.7	62.9	43.6	0	0	64.4	64.4	65	N	-	-	64.4	Y	N	N
A3-1-1	8	42.2	A3-1	-	0	0	59.4	64.1	43.5	0	0	65.4	65.4	65	N	-	-	65.4	Y	N	N
A3-1-2	1	21.2	A3-1	-	0	0	0	41.6	53.4	0	0	53.7	53.7	65	N	-	-	53.7	Y	N	N
A3-1-2	2	24.2	A3-1	-	0	0	0	43.9	53.6	0	0	54.1	54.1	65	N	-	-	54.1	Y	N	N
A3-1-2	3	27.2	A3-1	-	0	0	0	46.7	53.8	0	0	54.6	54.6	65	N	-	-	54.6	Y	N	N
A3-1-2	4	30.2	A3-1	-	0	0	0	50.3	54	0	0	55.5	55.5	65	N	-	-	55.5	Y	N	N
A3-1-2	5	33.2	A3-1	-	0	0	0	55.7	54.3	0	0	58.1	58.1	65	N	-	-	58.1	Y	N	N
A3-1-2	6	36.2	A3-1	-	0	0	0	62.1	54.9	0	0	62.8	62.8	65	N	-	-	62.8	Y	N	N
A3-1-2	7	39.2	A3-1	-	0	0	0	64.2	56	0	0	64.8	64.8	65	N	-	-	64.8	Y	N	N
A3-1-2	8	42.2	A3-1	-	0	0	0	64.5	57.6	0	0	65.3	65.3	65	N	-	-	65.3	Y	N	N
A3-2-1	1	21.2	A3-2	-	0	0	30.2	57.5	55.8	0	0	59.7	59.7	65	N	-	-	59.7	Y	N	N
A3-2-1	2	24.2	A3-2	-	0	0	30.8	57.6	55.8	0	0	59.8	59.8	65	N	-	-	59.8	Y	N	N
A3-2-1	3	27.2	A3-2	-	0	0	31.5	57.9	55.9	0	0	60	60.0	65	N	-	-	60.0	Y	N	N
A3-2-1	4	30.2	A3-2	-	0	0	32.3	58.6	56	0	0	60.5	60.5	65	N	-	-	60.5	Y	N	N
A3-2-1	5	33.2	A3-2	-	0	0	33.2	60.7	56.1	0	0	62	62.0	65	N	-	-	62.0	Y	N	N
A3-2-1	6	36.2	A3-2	-	0	0	34.2	62.7	56.6	0	0	63.6	63.6	65	N	-	-	63.6	Y	N	N
A3-2-1	7	39.2	A3-2	-	0	0	35.4	63.3	57.2	0	0	64.3	64.3	65	N	-	-	64.3	Y	N	N
A3-2-1	8	42.2	A3-2	-	0	0	36.6	63.6	58.4	0	0	64.8	64.8	65	N	-	-	64.8	Y	N	N
A3-2-2	1	21.2	A3-2	-	0	0	0	30.8	62.7	0	0	62.7	62.7	65	N	-	-	62.7	Y	N	N
A3-2-2	2	24.2	A3-2	-	0	0	0	30.8	62.7	0	0	62.7	62.7	65	N	-	-	62.7	Y	N	N
A3-2-2	3	27.2	A3-2	-	0	0	0	30.7	62.7	0	0	62.7	62.7	65	N	-	-	62.7	Y	N	N
A3-2-2	4	30.2	A3-2	-	0	0	0	30.8	62.6	0	0	62.7	62.7	65	N	-	-	62.7	Y	N	N
A3-2-2	5	33.2	A3-2	-	0	0	0	30.9	62.6	0	0	62.6	62.6	65	N	-	-	62.6	Y	N	N
A3-2-2	6	36.2	A3-2	-	0	0	0	30.9	62.7	0	0	62.7	62.7	65	N	-	-	62.7	Y	N	N
A3-2-2	7	39.2	A3-2	-	0	0	0	31	63.1	0	0	63.1	63.1	65	N	-	-	63.1	Y	N	N
A3-2-2	8	42.2	A3-2	-	0	0	0	31	63.8	0	0	63.8	63.8	65	N	-	-	63.8	Y	N	N
A3-3a-1	1	45.7	A3-3a	-	0	0	51.1	66.5	63.2	0	0	68.2	68.2	70	N	-	-	68.2	Y	N	N
A3-3a-1	2	48.5	A3-3a	-	0	0	51.3	66.4	63	0	0	68.2	68.2	70	N	-	-	68.2	Y	N	N
A3-3a-1	3	51.3	A3-3a	-	0	0	51.5	66.3	63	0	0	68.1	68.1	70	N	-	-	68.1	Y	N	N
A3-3a-1	4	54.1	A3-3a	-	0	0	51.6	66.2	62.8	0	0	67.9	67.9	70	N	-	-	67.9	Y	N	N
A3-3a-1	5	56.9	A3-3a	-	0	0	51.7	66.1	62.7	0	0	67.8	67.8	70	N	-	-	67.8	Y	N	N
A3-3a-1	6	59.7	A3-3a	-	0	0	51.8	66	62.5	0	0	67.7	67.7	70	N	-	-	67.7	Y	N	N
A3-3a-1	7	62.5	A3-3a	-	0	0	51.9	65.8	62.4	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
A3-3a-1	8	65.3	A3-3a	-	0	0	52	65.7	62.3	0	0	67.5	67.5	70	N	-	-	67.5	Y	N	N
A3-3a-1	9	68.1	A3-3a	-	0	0	52.3	65.6	62.2	0	0	67.4	67.4	70	N	-	-	67.4	Y	N	N
A3-3a-1	10	70.9	A3-3a	-	0	0	52.6	65.6	62.1	0	0	67.3	67.3	70	N	-	-	67.3	Y	N	N
A3-3a-1	11	73.7	A3-3a	-	0	0	53.2	65.5	62	0	0	67.2	67.2	70	N	-	-	67.2	Y	N	N
A3-3a-1	12	76.5	A3-3a	-	0	0	53.5	65.4	61.9	0	0	67.2	67.2	70	N	-	-	67.2	Y	N	N
A3-3a-1	13	79.3	A3-3a	-	0	0	53.8	65.4	61.7	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
A3-3a-1	14	82.1	A3-3a	-	0	0	53.9	65.3	61.6	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
A3-3a-1	15	84.9	A3-3a	-	0	0	54	65.3	61.5	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A3-3a-1	16	87.7	A3-3a	-	0	0	54	65.3	61.4	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A3-3a-1	17	90.5	A3-3a	-	0	0	54	65.3	61.3	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A3-3a-1	18	93.3	A3-3a	-	0	0	54	65.3	61.2	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A3-3a-1	19	96.1	A3-3a	-	0	0	54	65.3	61	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A3-3a-1	20	98.9	A3-3a	-	0	0	54	65.3	60.9	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A3-3a-1	21	101.7	A3-3a	-	0	0	54	65.2	60.8	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
A3-3a-1	22	104.5	A3-3a	-	0	0	53.9	65.2	60.7	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
A3-3a-1	23	107.3	A3-3a	-	0	0	53.9	65.1	60.5	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A3-3a-1	24	110.1	A3-3a	-	0	0	53.9	65	60.4	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A3-3a-1	25	112.9	A3-3a	-	0	0	53.9	64.9	60.3	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
A3-3a-1	26	115.7	A3-3a	-	0	0	53.9	64.9	60.2	0	0	66.4	66.4	70	N	-	-	66.4	Y	N	N
A3-3a-1	27	118.5	A3-3a	-	0	0	53.9	64.8	60.1	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A3-3a-1	28	121.3	A3-3a	-	0	0	53.8	64.7	60	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
A3-3a-1	29	124.1	A3-3a	-	0	0	53.8	64.6	59.9	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A3-3a-1	30	126.9	A3-3a	-	0	0	53.8	64.5	59.8	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A3-3a-1	31	129.7	A3-3a	-	0	0	53.8	64.4	59.7	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
A3-3a-1	32	132.5	A3-3a	-	0	0	53.8	64.3	59.6	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
A3-3a-1	33	135.3	A3-3a	-	0	0	53.7	64.3	59.5	0	0	65.8	65.8	70	N	-	-	65.8	Y	N	N
A3-3a-1	34	138.1	A3-3a	-	0	0	53.7	64.2	59.4	0	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
A3-3a-1	35	140.9	A3-3a	-	0	0	53.7	64.1	59.3	0	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
A3-3a-1	36	143.7	A3-3a	-	0	0	53.7	64.1	59.2	0	0	65.6	65.6	70	N	-	-	65.6	Y	N	N
A3-3a-1	37	146.5	A3-3a	-	0	0	53.7	64	59.1	0	0	65.5	65.5	70	N	-	-	65.5	Y	N	N
A3-3a-1	38	149.3	A3-3a	-	0	0	53.6	63.9	59	0	0	65.4	65.4	70	N	-	-	65.4	Y	N	N
A3-3a-1	39	152.1	A3-3a	-	0	0	53.6	63.8	59	0	0	65.3	65.3	70	N	-	-	65.3	Y	N	N
A3-3a-1	40	154.9	A3-3a	-	0	0	53.6	63.7	58.9	0	0	65.3	65.3	70	N	-	-	65.3	Y	N	N
A3-3a-1	41	157.7	A3-3a	-	0	0	53.6	63.7	58.8	0	0	65.2	65.2	70	N	-	-	65.2	Y	N	N
A3-3a-2a	1	45.7	A3-3a	-	0	0	48.4	53.9	44	0	0	55.3	55.3	70	N	-	-	55.3	Y	N	N
A3-3a-2a	2	48.5	A3-3a	-	0	0	52.7	57.8	47.9	0	0	59.3	59.3	70	N	-	-	59.3	Y	N	N
A3-3a-2a	3	51.3	A3-3a	-	0	0	53.2	61.3	52.6	0	0	62.4	62.4	70	N	-	-	62.4	Y	N	N
A3-3a-2a	4	54.1	A3-3a	-	0	0	53.3	65.2	54.9	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
A3-3a-2a	5	56.9	A3-3a	-	0	0	53.3	68	56.8	0	0	68.4	68.4	70	N	-	-	68.4	Y	N	N
A3-3a-2a	6	59.7	A3-3a	-	0	0	53.3	69.1	57.3	0	0	69.5	69.5	70	N	-	-	69.5	Y	N	N
A3-3a-2a	7	62.5	A3-3a	-	0	0	53.3	69.4	57.4	0	0	69.7	69.7	70	N	-	-	69.7	Y	N	N
A3-3a-2a	8	65.3	A3-3a	-	0	0	53.3	69.4	57.3	0	0	69.7	69.7	70	N	-	-	69.7	Y	N	N
A3-3a-2a	9	68.1	A3-3a	-	0	0	53.3	69.1	57.2	0	0	69.5	69.5	70	N	-	-	69.5	Y	N	N
A3-3a-2a	10	70.9	A3-3a	-	0	0	53.3	69	57.1	0	0	69.4	69.4	70	N	-	-	69.4	Y	N	N
A3-3a-2a	11	73.7	A3-3a	-	0	0	53.3	68.9	57.1	0	0	69.3	69.3	70	N	-	-	69.3	Y	N	N
A3-3a-2a	12	76.5	A3-3a	-	0	0	53.3	68.7	57	0	0	69.1	69.1	70	N	-	-	69.1	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
A3-3a-2a	13	79.3	A3-3a	-	0	0	53.3	68.5	56.9	0	0	68.9	68.9	70	N	-	-	68.9	Y	N	N
A3-3a-2a	14	82.1	A3-3a	-	0	0	53.3	68.3	56.9	0	0	68.8	68.8	70	N	-	-	68.8	Y	N	N
A3-3a-2a	15	84.9	A3-3a	-	0	0	53.3	68.2	56.8	0	0	68.7	68.7	70	N	-	-	68.7	Y	N	N
A3-3a-2a	16	87.7	A3-3a	-	0	0	53.3	68	56.8	0	0	68.5	68.5	70	N	-	-	68.5	Y	N	N
A3-3a-2a	17	90.5	A3-3a	-	0	0	53.3	67.9	56.7	0	0	68.3	68.3	70	N	-	-	68.3	Y	N	N
A3-3a-2a	18	93.3	A3-3a	-	0	0	53.3	67.7	56.6	0	0	68.2	68.2	70	N	-	-	68.2	Y	N	N
A3-3a-2a	19	96.1	A3-3a	-	0	0	53.2	67.6	56.5	0	0	68.1	68.1	70	N	-	-	68.1	Y	N	N
A3-3a-2a	20	98.9	A3-3a	-	0	0	53.2	67.5	56.4	0	0	67.9	67.9	70	N	-	-	67.9	Y	N	N
A3-3a-2a	21	101.7	A3-3a	-	0	0	53.2	67.3	56.4	0	0	67.8	67.8	70	N	-	-	67.8	Y	N	N
A3-3a-2a	22	104.5	A3-3a	-	0	0	53.2	67.2	56.3	0	0	67.7	67.7	70	N	-	-	67.7	Y	N	N
A3-3a-2a	23	107.3	A3-3a	-	0	0	53.2	67.1	56.2	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
A3-3a-2a	24	110.1	A3-3a	-	0	0	53.2	67	56.1	0	0	67.5	67.5	70	N	-	-	67.5	Y	N	N
A3-3a-2a	25	112.9	A3-3a	-	0	0	53.2	66.8	56	0	0	67.3	67.3	70	N	-	-	67.3	Y	N	N
A3-3a-2a	26	115.7	A3-3a	-	0	0	53.2	66.7	55.9	0	0	67.2	67.2	70	N	-	-	67.2	Y	N	N
A3-3a-2a	27	118.5	A3-3a	-	0	0	53.1	66.6	55.9	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
A3-3a-2a	28	121.3	A3-3a	-	0	0	53.1	66.5	55.8	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A3-3a-2a	29	124.1	A3-3a	-	0	0	53.1	66.4	55.7	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A3-3a-2a	30	126.9	A3-3a	-	0	0	53.1	66.3	55.6	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
A3-3a-2a	31	129.7	A3-3a	-	0	0	53.1	66.2	55.6	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
A3-3a-2a	32	132.5	A3-3a	-	0	0	53.1	66.1	55.5	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A3-3a-2a	33	135.3	A3-3a	-	0	0	53.1	66	55.4	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
A3-3a-2a	34	138.1	A3-3a	-	0	0	53.1	65.9	55.3	0	0	66.4	66.4	70	N	-	-	66.4	Y	N	N
A3-3a-2a	35	140.9	A3-3a	-	0	0	53	65.8	55.3	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A3-3a-2a	36	143.7	A3-3a	-	0	0	53	65.7	55.2	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A3-3a-2a	37	146.5	A3-3a	-	0	0	53	65.6	55.1	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
A3-3a-2a	38	149.3	A3-3a	-	0	0	53	65.5	55	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A3-3a-2a	39	152.1	A3-3a	-	0	0	53	65.4	55	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
A3-3a-2a	40	154.9	A3-3a	-	0	0	53	65.3	54.9	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
A3-3a-2a	41	157.7	A3-3a	-	0	0	52.9	65.2	54.8	0	0	65.8	65.8	70	N	-	-	65.8	Y	N	N
A3-3a-2b	1	45.7	A3-3a	-	0	0	20.9	54	6	0	0	54	54.0	70	N	-	-	54.0	Y	N	N
A3-3a-2b	2	48.5	A3-3a	-	0	0	20.9	57.8	6	0	0	57.8	57.8	70	N	-	-	57.8	Y	N	N
A3-3a-2b	3	51.3	A3-3a	-	0	0	20.8	61.9	6	0	0	61.9	61.9	70	N	-	-	61.9	Y	N	N
A3-3a-2b	4	54.1	A3-3a	-	0	0	20.8	66	6	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
A3-3a-2b	5	56.9	A3-3a	-	0	0	20.8	68.6	5.9	0	0	68.6	68.6	70	N	-	-	68.6	Y	N	N
A3-3a-2b	6	59.7	A3-3a	-	0	0	20.8	69.5	5.9	0	0	69.5	69.5	70	N	-	-	69.5	Y	N	N
A3-3a-2b	7	62.5	A3-3a	-	0	0	20.8	69.7	5.8	0	0	69.7	69.7	70	N	-	-	69.7	Y	N	N
A3-3a-2b	8	65.3	A3-3a	-	0	0	20.8	69.6	5.8	0	0	69.6	69.6	70	N	-	-	69.6	Y	N	N
A3-3a-2b	9	68.1	A3-3a	-	0	0	20.8	69.4	5.7	0	0	69.4	69.4	70	N	-	-	69.4	Y	N	N
A3-3a-2b	10	70.9	A3-3a	-	0	0	20.8	69.3	5.7	0	0	69.3	69.3	70	N	-	-	69.3	Y	N	N
A3-3a-2b	11	73.7	A3-3a	-	0	0	20.8	69.1	5.7	0	0	69.1	69.1	70	N	-	-	69.1	Y	N	N
A3-3a-2b	12	76.5	A3-3a	-	0	0	20.7	69	5.7	0	0	69	69.0	70	N	-	-	69.0	Y	N	N
A3-3a-2b	13	79.3	A3-3a	-	0	0	20.7	68.8	5.6	0	0	68.8	68.8	70	N	-	-	68.8	Y	N	N
A3-3a-2b	14	82.1	A3-3a	-	0	0	20.7	68.6	5.6	0	0	68.6	68.6	70	N	-	-	68.6	Y	N	N
A3-3a-2b	15	84.9	A3-3a	-	0	0	20.7	68.5	5.4	0	0	68.5	68.5	70	N	-	-	68.5	Y	N	N
A3-3a-2b	16	87.7	A3-3a	-	0	0	20.7	68.3	5.4	0	0	68.3	68.3	70	N	-	-	68.3	Y	N	N
A3-3a-2b	17	90.5	A3-3a	-	0	0	20.6	68.1	5.4	0	0	68.1	68.1	70	N	-	-	68.1	Y	N	N
A3-3a-2b	18	93.3	A3-3a	-	0	0	20.6	68	5.4	0	0	68	68.0	70	N	-	-	68.0	Y	N	N
A3-3a-2b	19	96.1	A3-3a	-	0	0	20.6	67.8	5.4	0	0	67.8	67.8	70	N	-	-	67.8	Y	N	N
A3-3a-2b	20	98.9	A3-3a	-	0	0	20.5	67.7	5.2	0	0	67.7	67.7	70	N	-	-	67.7	Y	N	N
A3-3a-2b	21	101.7	A3-3a	-	0	0	20.5	67.6	5.2	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
A3-3a-2b	22	104.5	A3-3a	-	0	0	20.5	67.4	5.1	0	0	67.4	67.4	70	N	-	-	67.4	Y	N	N
A3-3a-2b	23	107.3	A3-3a	-	0	0	20.5	67.3	5.1	0	0	67.3	67.3	70	N	-	-	67.3	Y	N	N
A3-3a-2b	24	110.1	A3-3a	-	0	0	20.5	67.2	5	0	0	67.2	67.2	70	N	-	-	67.2	Y	N	N
A3-3a-2b	25	112.9	A3-3a	-	0	0	20.4	67	5.1	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A3-3a-2b	26	115.7	A3-3a	-	0	0	20.4	66.9	5.2	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A3-3a-2b	27	118.5	A3-3a	-	0	0	20.4	66.8	5.2	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
A3-3a-2b	28	121.3	A3-3a	-	0	0	20.4	66.7	5.2	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
A3-3a-2b	29	124.1	A3-3a	-	0	0	20.3	66.6	5.3	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A3-3a-2b	30	126.9	A3-3a	-	0	0	20.3	66.5	5.2	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
A3-3a-2b	31	129.7	A3-3a	-	0	0	20.3	66.4	5.3	0	0	66.4	66.4	70	N	-	-	66.4	Y	N	N
A3-3a-2b	32	132.5	A3-3a	-	0	0	20.3	66.3	5.3	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A3-3a-2b	33	135.3	A3-3a	-	0	0	20.4	66.2	5.3	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
A3-3a-2b	34	138.1	A3-3a	-	0	0	20.5	66.1	5.2	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A3-3a-2b	35	140.9	A3-3a	-	0	0	20.6	66	5.2	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
A3-3a-2b	36	143.7	A3-3a	-	0	0	20.7	65.9	5.2	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
A3-3a-2b	37	146.5	A3-3a	-	0	0	20.6	65.8	5.1	0	0	65.8	65.8	70	N	-	-	65.8	Y	N	N
A3-3a-2b	38	149.3	A3-3a	-	0	0	20.6	65.7	5.1	0	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
A3-3a-2b	39	152.1	A3-3a	-	0	0	20.8	65.6	4.9	0	0	65.6	65.6	70	N	-	-	65.6	Y	N	N
A3-3a-2b	40	154.9	A3-3a	-	0	0	21	65.5	5	0	0	65.5	65.5	70	N	-	-	65.5	Y	N	N
A3-3a-2b	41	157.7	A3-3a	-	0	0	21.2	65.4	5	0	0	65.4	65.4	70	N	-	-	65.4	Y	N	N
A3-3a-3a	1	45.7	A3-3a	-	0	0	19.8	53.8	29.9	0	0	53.8	53.8	70	N	-	-	53.8	Y	N	N
A3-3a-3a	2	48.5	A3-3a	-	0	0	19.8	57.6	31.1	0	0	57.6	57.6	70	N	-	-	57.6	Y	N	N
A3-3a-3a	3	51.3	A3-3a	-	0	0	19.8	61.3	32.7	0	0	61.4	61.4	70	N	-	-	61.4	Y	N	N
A3-3a-3a	4	54.1	A3-3a	-	0	0	19.8	64.5	34.4	0	0	64.5	64.5	70	N	-	-	64.5	Y	N	N
A3-3a-3a	5	56.9	A3-3a	-	0	0	19.8	67.5	36.9	0	0	67.5	67.5	70	N	-	-	67.5	Y	N	N
A3-3a-3a	6	59.7	A3-3a	-	0	0	19.8	69.2	39.1	0	0	69.2	69.2	70	N	-	-	69.2	Y	N	N
A3-3a-3a	7	62.5	A3-3a	-	0	0	19.8	69.6	40.7	0	0	69.6	69.6	70	N	-	-	69.6	Y	N	N
A3-3a-3a	8	65.3	A3-3a	-	0	0	19.8	69.7	41.9	0	0	69.7	69.7	70	N	-	-	69.7	Y	N	N
A3-3a-3a	9	68.1	A3-3a	-	0	0	19.8	69.6	42.8	0	0	69.6	69.6	70	N	-	-	69.6	Y	N	N
A3-3a-3a	10	70.9	A3-3a	-	0	0	19.8	69.4	43.4	0	0	69.5	69.5	70	N	-	-	69.5	Y	N	N
A3-3a-3a	11	73.7	A3-3a	-	0	0	19.7	69.3	43.5	0	0	69.3	69.3	70	N	-	-	69.3	Y	N	N
A3-3a-3a	12	76.5	A3-3a	-	0	0	19.7	69.1	43.7	0	0	69.1	69.1	70	N	-	-	69.1	Y	N	N
A3-3a-3a	13	79.3	A3-3a	-	0	0	19.7	68.9	43.7	0	0	68.9	68.9	70	N	-	-	68.9	Y	N	N
A3-3a-3a	14	82.1	A3-3a	-	0	0	19.7	68.8	43.7	0	0	68.8	68.8	70	N	-	-	68.8	Y	N	N
A3-3a-3a	15	84.9	A3-3a	-	0	0	19.7	68.6	43.6	0	0	68.6	68.6	70	N	-	-	68.6	Y	N	N
A3-3a-3a	16	87.7	A3-3a	-	0	0	19.6	68.4	43.6	0	0	68.5	68.5	70	N	-	-	68.5	Y	N	N
A3-3a-3a	17	90.5	A3-3a	-	0	0	19.6	68.3	43.6	0	0	68.3	68.3	70	N	-	-	68.3	Y	N	N
A3-3a-3a	18	93.3	A3-3a	-	0	0	19.6	68.2	43.5	0	0	68.2	68.2	70	N	-	-	68.2	Y	N	N
A3-3a-3a	19	96.1	A3-3a	-	0	0	19.5	68	43.5	0	0	68	68.0	70	N	-	-	68.0	Y	N	N
A3-3a-3a	20	98.9	A3-3a	-	0	0	19.5	67.9	43.5	0	0	67.9	67.9	70	N	-	-	67.9	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance: C - A dB(A) [D]	Check Project Impact Significance: D ≥ 1dB(A)	Check Direct Mitigation: New Road Contribution dB(A) [E]	Check Direct Mitigation: New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	Check Direct Mitigation: New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)												
A3-3a-3a	21	101.7	A3-3a	-	0	0	19.5	67.7	43.5	0	0	67.7	67.7	70	N	-	-	67.7	Y	N	N
A3-3a-3a	22	104.5	A3-3a	-	0	0	19.5	67.6	43.4	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
A3-3a-3a	23	107.3	A3-3a	-	0	0	19.4	67.5	43.4	0	0	67.5	67.5	70	N	-	-	67.5	Y	N	N
A3-3a-3a	24	110.1	A3-3a	-	0	0	19.4	67.4	43.4	0	0	67.4	67.4	70	N	-	-	67.4	Y	N	N
A3-3a-3a	25	112.9	A3-3a	-	0	0	19.3	67.2	43.3	0	0	67.2	67.2	70	N	-	-	67.2	Y	N	N
A3-3a-3a	26	115.7	A3-3a	-	0	0	19.3	67.1	43.3	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
A3-3a-3a	27	118.5	A3-3a	-	0	0	19.3	67	43.3	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A3-3a-3a	28	121.3	A3-3a	-	0	0	19.2	66.9	43.2	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A3-3a-3a	29	124.1	A3-3a	-	0	0	19.2	66.8	43.2	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
A3-3a-3a	30	126.9	A3-3a	-	0	0	19.2	66.7	43.1	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
A3-3a-3a	31	129.7	A3-3a	-	0	0	19.1	66.6	43.1	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A3-3a-3a	32	132.5	A3-3a	-	0	0	19.1	66.5	43.1	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
A3-3a-3a	33	135.3	A3-3a	-	0	0	19.2	66.4	43	0	0	66.4	66.4	70	N	-	-	66.4	Y	N	N
A3-3a-3a	34	138.1	A3-3a	-	0	0	19.3	66.3	43	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A3-3a-3a	35	140.9	A3-3a	-	0	0	19.6	66.2	43	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
A3-3a-3a	36	143.7	A3-3a	-	0	0	19.8	66.1	42.9	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A3-3a-3a	37	146.5	A3-3a	-	0	0	20	66	42.9	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
A3-3a-3a	38	149.3	A3-3a	-	0	0	20.3	65.9	42.9	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
A3-3a-3a	39	152.1	A3-3a	-	0	0	20.7	65.8	42.8	0	0	65.8	65.8	70	N	-	-	65.8	Y	N	N
A3-3a-3a	40	154.9	A3-3a	-	0	0	21.2	65.7	42.8	0	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
A3-3a-3a	41	157.7	A3-3a	-	0	0	21.8	65.6	42.7	0	0	65.6	65.6	70	N	-	-	65.6	Y	N	N
A3-3a-3b	1	45.7	A3-3a	-	0	0	20.7	55.3	23	0	0	55.3	55.3	70	N	-	-	55.3	Y	N	N
A3-3a-3b	2	48.5	A3-3a	-	0	0	20.7	59.6	23.4	0	0	59.6	59.6	70	N	-	-	59.6	Y	N	N
A3-3a-3b	3	51.3	A3-3a	-	0	0	20.7	63.8	24	0	0	63.8	63.8	70	N	-	-	63.8	Y	N	N
A3-3a-3b	4	54.1	A3-3a	-	0	0	20.7	67.8	25.1	0	0	67.8	67.8	70	N	-	-	67.8	Y	N	N
A3-3a-3b	5	56.9	A3-3a	-	0	0	20.7	69.9	26.7	0	0	69.9	69.9	70	N	-	-	69.9	Y	N	N
A3-3a-3b	6	59.7	A3-3a	-	0	0	20.6	70.3	28.6	0	0	70.3	70.3	70	N	-	-	70.3	Y	N	N
A3-3a-3b	7	62.5	A3-3a	-	0	0	20.6	70.4	29.7	0	0	70.4	70.4	70	N	-	-	70.4	Y	N	N
A3-3a-3b	8	65.3	A3-3a	-	0	0	20.6	70.3	30.1	0	0	70.3	70.3	70	N	-	-	70.3	Y	N	N
A3-3a-3b	9	68.1	A3-3a	-	0	0	20.6	70.2	30.3	0	0	70.2	70.2	70	N	-	-	70.2	Y	N	N
A3-3a-3b	10	70.9	A3-3a	-	0	0	20.6	70	30.4	0	0	70	70.0	70	N	-	-	70.0	Y	N	N
A3-3a-3b	11	73.7	A3-3a	-	0	0	20.6	69.8	30.5	0	0	69.8	69.8	70	N	-	-	69.8	Y	N	N
A3-3a-3b	12	76.5	A3-3a	-	0	0	20.5	69.6	30.7	0	0	69.6	69.6	70	N	-	-	69.6	Y	N	N
A3-3a-3b	13	79.3	A3-3a	-	0	0	20.5	69.4	30.9	0	0	69.4	69.4	70	N	-	-	69.4	Y	N	N
A3-3a-3b	14	82.1	A3-3a	-	0	0	20.5	69.3	31.1	0	0	69.3	69.3	70	N	-	-	69.3	Y	N	N
A3-3a-3b	15	84.9	A3-3a	-	0	0	20.5	69.1	31.3	0	0	69.1	69.1	70	N	-	-	69.1	Y	N	N
A3-3a-3b	16	87.7	A3-3a	-	0	0	20.5	69	31.7	0	0	69	69.0	70	N	-	-	69.0	Y	N	N
A3-3a-3b	17	90.5	A3-3a	-	0	0	20.5	68.8	31.9	0	0	68.8	68.8	70	N	-	-	68.8	Y	N	N
A3-3a-3b	18	93.3	A3-3a	-	0	0	20.4	68.7	32.1	0	0	68.7	68.7	70	N	-	-	68.7	Y	N	N
A3-3a-3b	19	96.1	A3-3a	-	0	0	20.4	68.5	32.2	0	0	68.5	68.5	70	N	-	-	68.5	Y	N	N
A3-3a-3b	20	98.9	A3-3a	-	0	0	20.4	68.4	32.2	0	0	68.4	68.4	70	N	-	-	68.4	Y	N	N
A3-3a-3b	21	101.7	A3-3a	-	0	0	20.3	68.2	32.3	0	0	68.2	68.2	70	N	-	-	68.2	Y	N	N
A3-3a-3b	22	104.5	A3-3a	-	0	0	20.3	68.1	32.3	0	0	68.1	68.1	70	N	-	-	68.1	Y	N	N
A3-3a-3b	23	107.3	A3-3a	-	0	0	20.3	68	32.3	0	0	68	68.0	70	N	-	-	68.0	Y	N	N
A3-3a-3b	24	110.1	A3-3a	-	0	0	20.2	67.9	32.3	0	0	67.9	67.9	70	N	-	-	67.9	Y	N	N
A3-3a-3b	25	112.9	A3-3a	-	0	0	20.2	67.7	32.3	0	0	67.7	67.7	70	N	-	-	67.7	Y	N	N
A3-3a-3b	26	115.7	A3-3a	-	0	0	20.2	67.6	32.3	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
A3-3a-3b	27	118.5	A3-3a	-	0	0	20.2	67.5	32.2	0	0	67.5	67.5	70	N	-	-	67.5	Y	N	N
A3-3a-3b	28	121.3	A3-3a	-	0	0	20.1	67.4	32.2	0	0	67.4	67.4	70	N	-	-	67.4	Y	N	N
A3-3a-3b	29	124.1	A3-3a	-	0	0	20.1	67.3	32.2	0	0	67.3	67.3	70	N	-	-	67.3	Y	N	N
A3-3a-3b	30	126.9	A3-3a	-	0	0	20	67.2	32.2	0	0	67.2	67.2	70	N	-	-	67.2	Y	N	N
A3-3a-3b	31	129.7	A3-3a	-	0	0	20	67.1	32.2	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
A3-3a-3b	32	132.5	A3-3a	-	0	0	20	67	32.2	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A3-3a-3b	33	135.3	A3-3a	-	0	0	20	66.9	32.1	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A3-3a-3b	34	138.1	A3-3a	-	0	0	20	66.8	32.1	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
A3-3a-3b	35	140.9	A3-3a	-	0	0	20.3	66.7	32.1	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
A3-3a-3b	36	143.7	A3-3a	-	0	0	20.5	66.6	32.1	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A3-3a-3b	37	146.5	A3-3a	-	0	0	20.9	66.5	32.1	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
A3-3a-3b	38	149.3	A3-3a	-	0	0	21.3	66.4	32.2	0	0	66.4	66.4	70	N	-	-	66.4	Y	N	N
A3-3a-3b	39	152.1	A3-3a	-	0	0	21.9	66.3	32.1	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A3-3a-3b	40	154.9	A3-3a	-	0	0	22.6	66.2	32.1	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
A3-3a-3b	41	157.7	A3-3a	-	0	0	23.4	66.1	32.1	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A3-3a-4a	1	45.7	A3-3a	-	0	0	20	54.9	28.4	0	0	54.9	54.9	70	N	-	-	54.9	Y	N	N
A3-3a-4a	2	48.5	A3-3a	-	0	0	20	59.2	29.8	0	0	59.2	59.2	70	N	-	-	59.2	Y	N	N
A3-3a-4a	3	51.3	A3-3a	-	0	0	20	63.2	31.6	0	0	63.2	63.2	70	N	-	-	63.2	Y	N	N
A3-3a-4a	4	54.1	A3-3a	-	0	0	20	66.8	33.9	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
A3-3a-4a	5	56.9	A3-3a	-	0	0	20	69.4	36.1	0	0	69.4	69.4	70	N	-	-	69.4	Y	N	N
A3-3a-4a	6	59.7	A3-3a	-	0	0	20	69.9	37.5	0	0	69.9	69.9	70	N	-	-	69.9	Y	N	N
A3-3a-4a	7	62.5	A3-3a	-	0	0	20	70	38.2	0	0	70	70.0	70	N	-	-	70.0	Y	N	N
A3-3a-4a	8	65.3	A3-3a	-	0	0	19.9	70	38.6	0	0	70	70.0	70	N	-	-	70.0	Y	N	N
A3-3a-4a	9	68.1	A3-3a	-	0	0	19.9	69.8	38.9	0	0	69.8	69.8	70	N	-	-	69.8	Y	N	N
A3-3a-4a	10	70.9	A3-3a	-	0	0	19.9	69.7	39.2	0	0	69.7	69.7	70	N	-	-	69.7	Y	N	N
A3-3a-4a	11	73.7	A3-3a	-	0	0	19.9	69.5	39.5	0	0	69.5	69.5	70	N	-	-	69.5	Y	N	N
A3-3a-4a	12	76.5	A3-3a	-	0	0	19.9	69.4	39.9	0	0	69.4	69.4	70	N	-	-	69.4	Y	N	N
A3-3a-4a	13	79.3	A3-3a	-	0	0	19.9	69.2	40.1	0	0	69.2	69.2	70	N	-	-	69.2	Y	N	N
A3-3a-4a	14	82.1	A3-3a	-	0	0	19.9	69	40.4	0	0	69	69.0	70	N	-	-	69.0	Y	N	N
A3-3a-4a	15	84.9	A3-3a	-	0	0	19.9	68.9	40.8	0	0	68.9	68.9	70	N	-	-	68.9	Y	N	N
A3-3a-4a	16	87.7	A3-3a	-	0	0	19.9	68.7	41	0	0	68.7	68.7	70	N	-	-	68.7	Y	N	N
A3-3a-4a	17	90.5	A3-3a	-	0	0	19.9	68.5	41.2	0	0	68.5	68.5	70	N	-	-	68.5	Y	N	N
A3-3a-4a	18	93.3	A3-3a	-	0	0	19.8	68.4	41.3	0	0	68.4	68.4	70	N	-	-	68.4	Y	N	N
A3-3a-4a	19	96.1	A3-3a	-	0	0	19.8	68.3	41.4	0	0	68.3	68.3	70	N	-	-	68.3	Y	N	N
A3-3a-4a	20	98.9	A3-3a	-	0	0	19.8	68.1	41.4	0	0	68.1	68.1	70	N	-	-	68.1	Y	N	N
A3-3a-4a	21	101.7	A3-3a	-	0	0	19.8	68	41.5	0	0	68	68.0	70	N	-	-	68.0	Y	N	N
A3-3a-4a	22	104.5	A3-3a	-	0	0	19.8	67.9	41.4	0	0	67.9	67.9	70	N	-	-	67.9	Y	N	N
A3-3a-4a	23	107.3	A3-3a	-	0	0	19.7	67.7	41.4	0	0	67.7	67.7	70	N	-	-	67.7	Y	N	N
A3-3a-4a	24	110.1	A3-3a	-	0	0	19.7	67.6	41.4	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
A3-3a-4a	25	112.9	A3-3a	-	0	0	19.7	67.5	41.4	0	0	67.5	67.5	70	N	-	-	67.5	Y	N	N
A3-3a-4a	26	115.7	A3-3a	-	0	0	19.7	67.4	41.4	0	0	67.4	67.4	70	N	-	-	67.4	Y	N	N
A3-3a-4a	27	118.5	A3-3a	-	0	0	19.6	67.3	41.4	0	0	67.3	67.3	70	N	-	-	67.3	Y	N	N
A3-3a-4a	28	121.3	A3-3a	-	0	0	19.7	67.1	41.3	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
A3-3a-4a	29	124.1	A3-3a	-	0	0	19.7	67	41.3	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A3-3a-4a	30	126.9	A3-3a	-	0	0	19.7	66.9	41.3	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A3-3a-4a	31	129.7	A3-3a	-	0	0	19.9	66.8	41.3	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
A3-3a-4a	32	132.5	A3-3a	-	0	0	20	66.7	41.3	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
A3-3a-4a	33	135.3	A3-3a	-	0	0	20	66.6	41.3	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A3-3a-4a	34	138.1	A3-3a	-	0	0	20.1	66.5	41.2	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
A3-3a-4a	35	140.9	A3-3a	-	0	0	20.2	66.4	41.2	0	0	66.4	66.4	70	N	-	-	66.4	Y	N	N
A3-3a-4a	36	143.7	A3-3a	-	0	0	20.2	66.3	41.2	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A3-3a-4a	37	146.5	A3-3a	-	0	0	20.2	66.3	41.2	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A3-3a-4a	38	149.3	A3-3a	-	0	0	20.2	66.2	41.1	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
A3-3a-4a	39	152.1	A3-3a	-	0	0	20.2	66.1	41.1	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A3-3a-4a	40	154.9	A3-3a	-	0	0	20.2	66	41.1	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
A3-3a-4a	41	157.7	A3-3a	-	0	0	20.2	65.9	41.1	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
A3-3a-4b	1	45.7	A3-3a	-	0	0	19.9	54.4	27.2	0	0	54.4	54.4	70	N	-	-	54.4	Y	N	N
A3-3a-4b	2	48.5	A3-3a	-	0	0	19.9	58.5	28.8	0	0	58.5	58.5	70	N	-	-	58.5	Y	N	N
A3-3a-4b	3	51.3	A3-3a	-	0	0	19.9	62.4	30.7	0	0	62.4	62.4	70	N	-	-	62.4	Y	N	N
A3-3a-4b	4	54.1	A3-3a	-	0	0	19.9	66.2	31.2	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
A3-3a-4b	5	56.9	A3-3a	-	0	0	19.9	68.9	31.6	0	0	68.9	68.9	70	N	-	-	68.9	Y	N	N
A3-3a-4b	6	59.7	A3-3a	-	0	0	19.9	69.6	32.2	0	0	69.6	69.6	70	N	-	-	69.6	Y	N	N
A3-3a-4b	7	62.5	A3-3a	-	0	0	19.9	69.7	32.8	0	0	69.7	69.7	70	N	-	-	69.7	Y	N	N
A3-3a-4b	8	65.3	A3-3a	-	0	0	19.9	69.7	33.2	0	0	69.7	69.7	70	N	-	-	69.7	Y	N	N
A3-3a-4b	9	68.1	A3-3a	-	0	0	19.9	69.5	33.8	0	0	69.5	69.5	70	N	-	-	69.5	Y	N	N
A3-3a-4b	10	70.9	A3-3a	-	0	0	19.9	69.4	34.4	0	0	69.4	69.4	70	N	-	-	69.4	Y	N	N
A3-3a-4b	11	73.7	A3-3a	-	0	0	19.9	69.2	35	0	0	69.2	69.2	70	N	-	-	69.2	Y	N	N
A3-3a-4b	12	76.5	A3-3a	-	0	0	19.9	69.1	35.3	0	0	69.1	69.1	70	N	-	-	69.1	Y	N	N
A3-3a-4b	13	79.3	A3-3a	-	0	0	19.9	68.9	35.6	0	0	68.9	68.9	70	N	-	-	68.9	Y	N	N
A3-3a-4b	14	82.1	A3-3a	-	0	0	19.9	68.7	35.8	0	0	68.7	68.7	70	N	-	-	68.7	Y	N	N
A3-3a-4b	15	84.9	A3-3a	-	0	0	19.8	68.6	35.9	0	0	68.6	68.6	70	N	-	-	68.6	Y	N	N
A3-3a-4b	16	87.7	A3-3a	-	0	0	19.8	68.4	36.1	0	0	68.4	68.4	70	N	-	-	68.4	Y	N	N
A3-3a-4b	17	90.5	A3-3a	-	0	0	19.8	68.2	36.3	0	0	68.2	68.2	70	N	-	-	68.2	Y	N	N
A3-3a-4b	18	93.3	A3-3a	-	0	0	19.8	68.1	36.5	0	0	68.1	68.1	70	N	-	-	68.1	Y	N	N
A3-3a-4b	19	96.1	A3-3a	-	0	0	19.8	68	36.7	0	0	68	68.0	70	N	-	-	68.0	Y	N	N
A3-3a-4b	20	98.9	A3-3a	-	0	0	19.8	67.8	37	0	0	67.8	67.8	70	N	-	-	67.8	Y	N	N
A3-3a-4b	21	101.7	A3-3a	-	0	0	19.7	67.7	37.3	0	0	67.7	67.7	70	N	-	-	67.7	Y	N	N
A3-3a-4b	22	104.5	A3-3a	-	0	0	19.7	67.6	37.7	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
A3-3a-4b	23	107.3	A3-3a	-	0	0	19.7	67.4	38.1	0	0	67.4	67.4	70	N	-	-	67.4	Y	N	N
A3-3a-4b	24	110.1	A3-3a	-	0	0	19.7	67.3	38.6	0	0	67.3	67.3	70	N	-	-	67.3	Y	N	N
A3-3a-4b	25	112.9	A3-3a	-	0	0	19.7	67.2	39.1	0	0	67.2	67.2	70	N	-	-	67.2	Y	N	N
A3-3a-4b	26	115.7	A3-3a	-	0	0	19.6	67.1	39.7	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
A3-3a-4b	27	118.5	A3-3a	-	0	0	19.6	67	40.9	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
A3-3a-4b	28	121.3	A3-3a	-	0	0	19.7	66.8	41	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A3-3a-4b	29	124.1	A3-3a	-	0	0	19.7	66.7	41.8	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
A3-3a-4b	30	126.9	A3-3a	-	0	0	19.6	66.6	42.6	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
A3-3a-4b	31	129.7	A3-3a	-	0	0	19.8	66.5	43.1	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A3-3a-4b	32	132.5	A3-3a	-	0	0	19.9	66.5	43.5	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
A3-3a-4b	33	135.3	A3-3a	-	0	0	19.9	66.4	43.8	0	0	66.4	66.4	70	N	-	-	66.4	Y	N	N
A3-3a-4b	34	138.1	A3-3a	-	0	0	20	66.3	44	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A3-3a-4b	35	140.9	A3-3a	-	0	0	20.1	66.2	44.1	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
A3-3a-4b	36	143.7	A3-3a	-	0	0	20.1	66.1	44.3	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A3-3a-4b	37	146.5	A3-3a	-	0	0	20.1	66.1	44.4	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A3-3a-4b	38	149.3	A3-3a	-	0	0	20.1	66	44.4	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
A3-3a-4b	39	152.1	A3-3a	-	0	0	20.1	65.9	44.4	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
A3-3a-4b	40	154.9	A3-3a	-	0	0	20.1	65.8	44.4	0	0	65.8	65.8	70	N	-	-	65.8	Y	N	N
A3-3a-4b	41	157.7	A3-3a	-	0	0	20.1	65.7	44.5	0	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
A3-3a-5	1	45.7	A3-3a	-	0	0	46.6	56.7	38.2	0	0	57.1	57.1	70	N	-	-	57.1	Y	N	N
A3-3a-5	2	48.5	A3-3a	-	0	0	50	58.1	41.4	0	0	58.8	58.8	70	N	-	-	58.8	Y	N	N
A3-3a-5	3	51.3	A3-3a	-	0	0	50.2	58.2	43.1	0	0	59	59.0	70	N	-	-	59.0	Y	N	N
A3-3a-5	4	54.1	A3-3a	-	0	0	50.2	58.5	45	0	0	59.2	59.2	70	N	-	-	59.2	Y	N	N
A3-3a-5	5	56.9	A3-3a	-	0	0	50.3	58.6	46.9	0	0	59.4	59.4	70	N	-	-	59.4	Y	N	N
A3-3a-5	6	59.7	A3-3a	-	0	0	50.4	58.7	48.7	0	0	59.6	59.6	70	N	-	-	59.6	Y	N	N
A3-3a-5	7	62.5	A3-3a	-	0	0	50.4	58.7	49.6	0	0	59.7	59.7	70	N	-	-	59.7	Y	N	N
A3-3a-5	8	65.3	A3-3a	-	0	0	50.5	58.7	50	0	0	59.8	59.8	70	N	-	-	59.8	Y	N	N
A3-3a-5	9	68.1	A3-3a	-	0	0	50.5	58.7	50.2	0	0	59.8	59.8	70	N	-	-	59.8	Y	N	N
A3-3a-5	10	70.9	A3-3a	-	0	0	50.5	58.7	50.3	0	0	59.8	59.8	70	N	-	-	59.8	Y	N	N
A3-3a-5	11	73.7	A3-3a	-	0	0	50.6	58.7	50.6	0	0	59.9	59.9	70	N	-	-	59.9	Y	N	N
A3-3a-5	12	76.5	A3-3a	-	0	0	50.6	58.7	50.9	0	0	59.9	59.9	70	N	-	-	59.9	Y	N	N
A3-3a-5	13	79.3	A3-3a	-	0	0	50.6	58.8	51.4	0	0	60	60.0	70	N	-	-	60.0	Y	N	N
A3-3a-5	14	82.1	A3-3a	-	0	0	50.6	58.8	51.7	0	0	60.1	60.1	70	N	-	-	60.1	Y	N	N
A3-3a-5	15	84.9	A3-3a	-	0	0	50.6	58.9	51.9	0	0	60.2	60.2	70	N	-	-	60.2	Y	N	N
A3-3a-5	16	87.7	A3-3a	-	0	0	50.6	59	51.9	0	0	60.3	60.3	70	N	-	-	60.3	Y	N	N
A3-3a-5	17	90.5	A3-3a	-	0	0	50.6	59.1	52	0	0	60.3	60.3	70	N	-	-	60.3	Y	N	N
A3-3a-5	18	93.3	A3-3a	-	0	0	50.6	59.1	52.1	0	0	60.4	60.4	70	N	-	-	60.4	Y	N	N
A3-3a-5	19	96.1	A3-3a	-	0	0	50.6	59.2	52.3	0	0	60.4	60.4	70	N	-	-	60.4	Y	N	N
A3-3a-5	20	98.9	A3-3a	-	0	0	50.6	59.2	52.4	0	0	60.5	60.5	70	N	-	-	60.5	Y	N	N
A3-3a-5	21	101.7	A3-3a	-	0	0	50.5	59.2	52.7	0	0	60.5	60.5	70	N	-	-	60.5	Y	N	N
A3-3a-5	22	104.5	A3-3a	-	0	0	50.5	59.2	53	0	0	60.6	60.6	70	N	-	-	60.6	Y	N	N
A3-3a-5	23	107.3	A3-3a	-	0	0	50.5	59.2	53.2	0	0	60.6	60.6	70	N	-	-	60.6	Y	N	N
A3-3a-5	24	110.1	A3-3a	-	0	0	50.5	59.3	53.3	0	0	60.7	60.7	70	N	-	-	60.7	Y	N	N
A3-3a-5	25	112.9	A3-3a	-	0	0	50.5	59.3	53.5	0	0	60.7	60.7	70	N	-	-	60.7	Y	N	N
A3-3a-5	26	115.7	A3-3a	-	0	0	50.5	59.3	53.5	0	0	60.8	60.8	70	N	-	-	60.8	Y	N	N
A3-3a-5	27	118.5	A3-3a	-	0	0	50.5	59.4	53.6	0	0	60.8	60.8	70	N	-	-	60.8	Y	N	N
A3-3a-5	28	121.3	A3-3a	-	0	0	50.4	59.4	53.6	0	0	60.8	60.8	70	N	-	-	60.8	Y	N	N
A3-3a-5	29	124.1	A3-3a	-	0	0	50.4	59.4	53.6	0	0	60.8	60.8	70	N	-	-	60.8	Y	N	N
A3-3a-5	30	126.9	A3-3a	-	0	0	50.4	59.5	53.6	0	0	60.9	60.9	70	N	-	-	60.9	Y	N	N
A3-3a-5	31	129.7	A3-3a	-	0	0	50.4	59.5	53.6	0	0	60.9	60.9	70	N	-	-	60.9	Y	N	N
A3-3a-5	32	132.5	A3-3a	-	0	0	50.3	59.6	53.6	0	0	61	61.0	70	N	-	-	61.0	Y	N	N
A3-3a-5	33	135.3	A3-3a	-	0	0	50.3	59.6	53.6	0	0	61	61.0	70	N	-	-	61.0	Y	N	N
A3-3a-5	34	138.1	A3-3a	-	0	0	50.3	59.7	53.6	0	0	61	61.0	70	N	-	-	61.0	Y	N	N
A3-3a-5	35	140.9	A3-3a	-	0	0	50.3	59.7	53.6	0	0	61	61.0	70	N	-	-	61.0	Y	N	N
A3-3a-5	36	143.7	A3-3a	-	0	0	50.3	59.7	53.5	0	0	61	61.0	70	N	-	-	61.0	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	New Roads[2]						Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]				C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
A3-3a-5	37	146.5	A3-3a	-	0	0	50.2	59.8	53.5	0	0	61.1	61.1	70	N	-	-	61.1	Y	N	N
A3-3a-5	38	149.3	A3-3a	-	0	0	50.2	59.8	53.5	0	0	61.1	61.1	70	N	-	-	61.1	Y	N	N
A3-3a-5	39	152.1	A3-3a	-	0	0	50.2	59.8	53.5	0	0	61.1	61.1	70	N	-	-	61.1	Y	N	N
A3-3a-5	40	154.9	A3-3a	-	0	0	50.2	59.8	53.5	0	0	61.1	61.1	70	N	-	-	61.1	Y	N	N
A3-3a-5	41	157.7	A3-3a	-	0	0	50.2	59.8	53.6	0	0	61.1	61.1	70	N	-	-	61.1	Y	N	N
A3-3a-6	1	45.7	A3-3a	-	0	45.9	44	61.3	23.1	0	0	61.4	61.5	70	N	-	-	15.6	Y	N	N
A3-3a-6	2	48.5	A3-3a	-	0	46	47.1	61.6	23.1	0	0	61.7	61.9	70	N	-	-	15.9	Y	N	N
A3-3a-6	3	51.3	A3-3a	-	0	46	47.4	61.6	23.1	0	0	61.7	61.8	70	N	-	-	15.8	Y	N	N
A3-3a-6	4	54.1	A3-3a	-	0	46	47.4	61.5	23.1	0	0	61.7	61.8	70	N	-	-	15.8	Y	N	N
A3-3a-6	5	56.9	A3-3a	-	0	46	47.4	61.5	23	0	0	61.6	61.8	70	N	-	-	15.8	Y	N	N
A3-3a-6	6	59.7	A3-3a	-	0	46	47.5	61.5	23	0	0	61.6	61.8	70	N	-	-	15.8	Y	N	N
A3-3a-6	7	62.5	A3-3a	-	0	46	47.5	61.4	22.9	0	0	61.6	61.7	70	N	-	-	15.7	Y	N	N
A3-3a-6	8	65.3	A3-3a	-	0	46	47.5	61.4	22.9	0	0	61.6	61.7	70	N	-	-	15.7	Y	N	N
A3-3a-6	9	68.1	A3-3a	-	0	46	47.6	61.3	22.8	0	0	61.5	61.6	70	N	-	-	15.6	Y	N	N
A3-3a-6	10	70.9	A3-3a	-	0	46	47.6	61.3	22.8	0	0	61.5	61.6	70	N	-	-	15.6	Y	N	N
A3-3a-6	11	73.7	A3-3a	-	0	46	47.6	61.3	22.7	0	0	61.5	61.6	70	N	-	-	15.6	Y	N	N
A3-3a-6	12	76.5	A3-3a	-	0	46	47.7	61.2	22.7	0	0	61.4	61.6	70	N	-	-	15.6	Y	N	N
A3-3a-6	13	79.3	A3-3a	-	0	46	47.7	61.2	22.6	0	0	61.4	61.5	70	N	-	-	15.5	Y	N	N
A3-3a-6	14	82.1	A3-3a	-	0	46	47.7	61.2	22.6	0	0	61.4	61.5	70	N	-	-	15.5	Y	N	N
A3-3a-6	15	84.9	A3-3a	-	0	46	47.7	61.2	22.5	0	0	61.3	61.5	70	N	-	-	15.5	Y	N	N
A3-3a-6	16	87.7	A3-3a	-	0	46.1	47.7	61.1	22.5	0	0	61.3	61.4	70	N	-	-	15.3	Y	N	N
A3-3a-6	17	90.5	A3-3a	-	0	46.1	47.6	61.1	22.4	0	0	61.3	61.4	70	N	-	-	15.3	Y	N	N
A3-3a-6	18	93.3	A3-3a	-	0	46.1	47.6	61.1	22.3	0	0	61.3	61.4	70	N	-	-	15.3	Y	N	N
A3-3a-6	19	96.1	A3-3a	-	0	46.1	47.6	61	22.3	0	0	61.2	61.4	70	N	-	-	15.3	Y	N	N
A3-3a-6	20	98.9	A3-3a	-	0	46.1	47.6	61	22.3	0	0	61.2	61.4	70	N	-	-	15.3	Y	N	N
A3-3a-6	21	101.7	A3-3a	-	0	46.1	47.6	61	22.2	0	0	61.2	61.3	70	N	-	-	15.2	Y	N	N
A3-3a-6	22	104.5	A3-3a	-	0	46.1	47.6	61	22.1	0	0	61.2	61.3	70	N	-	-	15.2	Y	N	N
A3-3a-6	23	107.3	A3-3a	-	0	46.1	47.6	61	22.1	0	0	61.2	61.3	70	N	-	-	15.2	Y	N	N
A3-3a-6	24	110.1	A3-3a	-	0	46.1	47.6	60.9	22	0	0	61.1	61.2	70	N	-	-	15.1	Y	N	N
A3-3a-6	25	112.9	A3-3a	-	0	46.1	47.6	60.9	22	0	0	61.1	61.2	70	N	-	-	15.1	Y	N	N
A3-3a-6	26	115.7	A3-3a	-	0	46.1	47.6	60.9	21.9	0	0	61.1	61.2	70	N	-	-	15.1	Y	N	N
A3-3a-6	27	118.5	A3-3a	-	0	46.1	47.6	60.9	21.8	0	0	61.1	61.2	70	N	-	-	15.1	Y	N	N
A3-3a-6	28	121.3	A3-3a	-	0	46.1	47.5	60.9	21.8	0	0	61.1	61.2	70	N	-	-	15.1	Y	N	N
A3-3a-6	29	124.1	A3-3a	-	0	46.1	47.5	60.8	21.8	0	0	61	61.2	70	N	-	-	15.1	Y	N	N
A3-3a-6	30	126.9	A3-3a	-	0	46.2	47.5	60.8	21.7	0	0	61	61.2	70	N	-	-	15.0	Y	N	N
A3-3a-6	31	129.7	A3-3a	-	0	46.2	47.5	60.8	21.6	0	0	61	61.2	70	N	-	-	15.0	Y	N	N
A3-3a-6	32	132.5	A3-3a	-	0	46.2	47.5	60.8	21.6	0	0	61	61.2	70	N	-	-	15.0	Y	N	N
A3-3a-6	33	135.3	A3-3a	-	0	46.2	47.5	60.8	21.5	0	0	61	61.1	70	N	-	-	14.9	Y	N	N
A3-3a-6	34	138.1	A3-3a	-	0	46.2	47.5	60.8	21.5	0	0	61	61.1	70	N	-	-	14.9	Y	N	N
A3-3a-6	35	140.9	A3-3a	-	0	46.2	47.5	60.8	21.4	0	0	61	61.1	70	N	-	-	14.9	Y	N	N
A3-3a-6	36	143.7	A3-3a	-	0	46.2	47.4	60.7	21.4	0	0	60.9	61.1	70	N	-	-	14.9	Y	N	N
A3-3a-6	37	146.5	A3-3a	-	0	46.2	47.4	60.7	21.3	0	0	60.9	61.0	70	N	-	-	14.8	Y	N	N
A3-3a-6	38	149.3	A3-3a	-	0	46.2	47.4	60.7	21.2	0	0	60.9	61.0	70	N	-	-	14.8	Y	N	N
A3-3a-6	39	152.1	A3-3a	-	0	46.2	47.4	60.6	21.2	0	0	60.8	61.0	70	N	-	-	14.8	Y	N	N
A3-3a-6	40	154.9	A3-3a	-	0	46.1	47.3	60.6	21.2	0	0	60.8	60.9	70	N	-	-	14.8	Y	N	N
A3-3a-6	41	157.7	A3-3a	-	0	46.1	47.3	60.6	21.1	0	0	60.8	60.9	70	N	-	-	14.8	Y	N	N
A3-3b-1a	1	43.2	A3-3b	-	0	0	18	54.1	24.1	0	0	54.1	54.1	70	N	-	-	54.1	Y	N	N
A3-3b-1a	2	46	A3-3b	-	0	0	18	58.8	24.7	0	0	58.8	58.8	70	N	-	-	58.8	Y	N	N
A3-3b-1a	3	48.8	A3-3b	-	0	0	18	62.9	25.4	0	0	62.9	62.9	70	N	-	-	62.9	Y	N	N
A3-3b-1a	4	51.6	A3-3b	-	0	0	18	66.4	26.3	0	0	66.4	66.4	70	N	-	-	66.4	Y	N	N
A3-3b-1a	5	54.4	A3-3b	-	0	0	18	68.5	27.8	0	0	68.5	68.5	70	N	-	-	68.5	Y	N	N
A3-3b-1a	6	57.2	A3-3b	-	0	0	18	68.9	29.2	0	0	68.9	68.9	70	N	-	-	68.9	Y	N	N
A3-3b-1a	7	60	A3-3b	-	0	0	18	68.9	30.6	0	0	68.9	68.9	70	N	-	-	68.9	Y	N	N
A3-3b-1a	8	62.8	A3-3b	-	0	0	18	68.8	31.4	0	0	68.8	68.8	70	N	-	-	68.8	Y	N	N
A3-3b-1a	9	65.6	A3-3b	-	0	0	18	68.7	32.1	0	0	68.7	68.7	70	N	-	-	68.7	Y	N	N
A3-3b-1a	10	68.4	A3-3b	-	0	0	18	68.5	32.7	0	0	68.5	68.5	70	N	-	-	68.5	Y	N	N
A3-3b-1a	11	71.2	A3-3b	-	0	0	18	68.3	33	0	0	68.3	68.3	70	N	-	-	68.3	Y	N	N
A3-3b-1a	12	74	A3-3b	-	0	0	18	68.1	33.3	0	0	68.1	68.1	70	N	-	-	68.1	Y	N	N
A3-3b-1a	13	76.8	A3-3b	-	0	0	18	67.9	33.6	0	0	67.9	67.9	70	N	-	-	67.9	Y	N	N
A3-3b-1a	14	79.6	A3-3b	-	0	0	18	67.8	33.7	0	0	67.8	67.8	70	N	-	-	67.8	Y	N	N
A3-3b-1a	15	82.4	A3-3b	-	0	0	18	67.6	33.8	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
A3-3b-1a	16	85.2	A3-3b	-	0	0	18	67.4	33.8	0	0	67.4	67.4	70	N	-	-	67.4	Y	N	N
A3-3b-1a	17	88	A3-3b	-	0	0	18	67.3	33.9	0	0	67.3	67.3	70	N	-	-	67.3	Y	N	N
A3-3b-1a	18	90.8	A3-3b	-	0	0	18	67.1	34.1	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
A3-3b-1a	19	93.6	A3-3b	-	0	0	18	67	34.3	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A3-3b-1a	20	96.4	A3-3b	-	0	0	18	66.9	34.4	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A3-3b-1a	21	99.2	A3-3b	-	0	0	18	66.7	34.5	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
A3-3b-1a	22	102	A3-3b	-	0	0	17.9	66.6	34.6	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A3-3b-1a	23	104.8	A3-3b	-	0	0	17.9	66.5	34.7	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
A3-3b-1a	24	107.6	A3-3b	-	0	0	17.9	66.3	34.9	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A3-3b-1a	25	110.4	A3-3b	-	0	0	17.8	66.2	35	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
A3-3b-1a	26	113.2	A3-3b	-	0	0	18	66.1	35.1	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A3-3b-1a	27	116	A3-3b	-	0	0	18.1	66	35.3	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
A3-3b-1a	28	118.8	A3-3b	-	0	0	18.1	65.9	35.3	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
A3-3b-1a	29	121.6	A3-3b	-	0	0	18.1	65.8	35.3	0	0	65.8	65.8	70	N	-	-	65.8	Y	N	N
A3-3b-1a	30	124.4	A3-3b	-	0	0	18.1	65.7	35.4	0	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
A3-3b-1a	31	127.2	A3-3b	-	0	0	18	65.6	35.5	0	0	65.6	65.6	70	N	-	-	65.6	Y	N	N
A3-3b-1a	32	130	A3-3b	-	0	0	18	65.5	35.5	0	0	65.5	65.5	70	N	-	-	65.5	Y	N	N
A3-3b-1a	33	132.8	A3-3b	-	0	0	18.2	65.4	35.5	0	0	65.4	65.4	70	N	-	-	65.4	Y	N	N
A3-3b-1a	34	135.6	A3-3b	-	0	0	18.2	65.3	35.5	0	0	65.3	65.3	70	N	-	-	65.3	Y	N	N
A3-3b-1a	35	138.4	A3-3b	-	0	0	18.2	65.2	35.7	0	0	65.2	65.2	70	N	-	-	65.2	Y	N	N
A3-3b-1a	36	141.2	A3-3b	-	0	0	18.2	65.1	35.7	0	0	65.1	65.1	70	N	-	-	65.1	Y	N	N
A3-3b-1a	37	144	A3-3b	-	0	0	18.2	65	35.8	0	0	65	65.0	70	N	-	-	65.0	Y	N	N
A3-3b-1a	38	146.8	A3-3b	-	0	0	18.2	64.9	35.9	0	0	64.9	64.9	70	N	-	-	64.9	Y	N	N
A3-3b-1a	39	149.6	A3-3b	-	0	0	18.4	64.8	35.9	0	0	64.8	64.8	70	N	-	-	64.8	Y	N	N
A3-3b-1a	40	152.4	A3-3b	-	0	0	18.6	64.7	35.9	0	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
A3-3b-1a	41	155.2	A3-3b	-	0	0	18.8	64.6	36	0	0	64.6	64.6	70	N	-	-	64.6	Y	N	N
A3-3b-1b	1	43.2	A3-3b	-	0	0	18	53.4	29.9	0	0	53.4	53.4	70	N	-	-	53.4	Y	N	N
A3-3b-1b	2	46	A3-3b	-	0	0	18	57.5	34.4	0	0	57.5	57.5	70	N	-	-	57.5	Y	N	N
A3-3b-1b	3	48.8	A3-3b	-	0	0	18	61.6	38.2	0	0	61.7	61.7	70	N	-	-	61.7	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
									dB (A)							C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
A3-3b-1b	4	51.6	A3-3b	-	0	0	18	65.5	38.9	0	0	65.6	65.6	70	N	-	-	65.6	Y	N	N
A3-3b-1b	5	54.4	A3-3b	-	0	0	18	68.2	38.9	0	0	68.2	68.2	70	N	-	-	68.2	Y	N	N
A3-3b-1b	6	57.2	A3-3b	-	0	0	18	68.8	38.8	0	0	68.8	68.8	70	N	-	-	68.8	Y	N	N
A3-3b-1b	7	60	A3-3b	-	0	0	18	68.8	38.9	0	0	68.8	68.8	70	N	-	-	68.8	Y	N	N
A3-3b-1b	8	62.8	A3-3b	-	0	0	17.9	68.7	38.9	0	0	68.7	68.7	70	N	-	-	68.7	Y	N	N
A3-3b-1b	9	65.6	A3-3b	-	0	0	17.9	68.6	38.9	0	0	68.6	68.6	70	N	-	-	68.6	Y	N	N
A3-3b-1b	10	68.4	A3-3b	-	0	0	17.9	68.5	38.9	0	0	68.5	68.5	70	N	-	-	68.5	Y	N	N
A3-3b-1b	11	71.2	A3-3b	-	0	0	17.9	68.3	38.9	0	0	68.3	68.3	70	N	-	-	68.3	Y	N	N
A3-3b-1b	12	74	A3-3b	-	0	0	17.9	68.1	38.9	0	0	68.1	68.1	70	N	-	-	68.1	Y	N	N
A3-3b-1b	13	76.8	A3-3b	-	0	0	17.9	67.9	39	0	0	67.9	67.9	70	N	-	-	67.9	Y	N	N
A3-3b-1b	14	79.6	A3-3b	-	0	0	17.9	67.8	39.1	0	0	67.8	67.8	70	N	-	-	67.8	Y	N	N
A3-3b-1b	15	82.4	A3-3b	-	0	0	17.9	67.6	39.2	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
A3-3b-1b	16	85.2	A3-3b	-	0	0	17.9	67.4	39.3	0	0	67.4	67.4	70	N	-	-	67.4	Y	N	N
A3-3b-1b	17	88	A3-3b	-	0	0	17.9	67.3	39.6	0	0	67.3	67.3	70	N	-	-	67.3	Y	N	N
A3-3b-1b	18	90.8	A3-3b	-	0	0	17.9	67.1	39.8	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
A3-3b-1b	19	93.6	A3-3b	-	0	0	17.9	67	39.9	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A3-3b-1b	20	96.4	A3-3b	-	0	0	17.9	66.9	40	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A3-3b-1b	21	99.2	A3-3b	-	0	0	17.9	66.7	40.1	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
A3-3b-1b	22	102	A3-3b	-	0	0	17.9	66.6	40.1	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A3-3b-1b	23	104.8	A3-3b	-	0	0	17.9	66.5	40.2	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
A3-3b-1b	24	107.6	A3-3b	-	0	0	17.9	66.3	40.2	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A3-3b-1b	25	110.4	A3-3b	-	0	0	17.7	66.2	40.2	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
A3-3b-1b	26	113.2	A3-3b	-	0	0	18	66.1	40.3	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A3-3b-1b	27	116	A3-3b	-	0	0	18	66	40.2	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
A3-3b-1b	28	118.8	A3-3b	-	0	0	18.1	65.9	40.3	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
A3-3b-1b	29	121.6	A3-3b	-	0	0	18.1	65.8	40.3	0	0	65.8	65.8	70	N	-	-	65.8	Y	N	N
A3-3b-1b	30	124.4	A3-3b	-	0	0	18.1	65.7	40.4	0	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
A3-3b-1b	31	127.2	A3-3b	-	0	0	17.9	65.6	40.5	0	0	65.6	65.6	70	N	-	-	65.6	Y	N	N
A3-3b-1b	32	130	A3-3b	-	0	0	17.9	65.5	40.5	0	0	65.5	65.5	70	N	-	-	65.5	Y	N	N
A3-3b-1b	33	132.8	A3-3b	-	0	0	18.1	65.4	40.5	0	0	65.4	65.4	70	N	-	-	65.4	Y	N	N
A3-3b-1b	34	135.6	A3-3b	-	0	0	18.1	65.3	40.5	0	0	65.3	65.3	70	N	-	-	65.3	Y	N	N
A3-3b-1b	35	138.4	A3-3b	-	0	0	18.2	65.2	40.5	0	0	65.2	65.2	70	N	-	-	65.2	Y	N	N
A3-3b-1b	36	141.2	A3-3b	-	0	0	18.1	65.1	40.5	0	0	65.1	65.1	70	N	-	-	65.1	Y	N	N
A3-3b-1b	37	144	A3-3b	-	0	0	18.2	65	40.5	0	0	65	65.0	70	N	-	-	65.0	Y	N	N
A3-3b-1b	38	146.8	A3-3b	-	0	0	18.2	64.9	40.5	0	0	64.9	64.9	70	N	-	-	64.9	Y	N	N
A3-3b-1b	39	149.6	A3-3b	-	0	0	18.4	64.8	40.5	0	0	64.8	64.8	70	N	-	-	64.8	Y	N	N
A3-3b-1b	40	152.4	A3-3b	-	0	0	18.6	64.7	40.5	0	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
A3-3b-1b	41	155.2	A3-3b	-	0	0	18.8	64.6	40.6	0	0	64.6	64.6	70	N	-	-	64.6	Y	N	N
A3-3b-2a	1	43.2	A3-3b	-	0	0	15.7	61.3	16.9	0	0	61.3	61.3	70	N	-	-	61.3	Y	N	N
A3-3b-2a	2	46	A3-3b	-	0	0	15.7	68.8	16.9	0	0	68.8	68.8	70	N	-	-	68.8	Y	N	N
A3-3b-2a	3	48.8	A3-3b	-	0	0	15.7	69.3	16.9	0	0	69.3	69.3	70	N	-	-	69.3	Y	N	N
A3-3b-2a	4	51.6	A3-3b	-	0	0	15.7	69.2	16.9	0	0	69.2	69.2	70	N	-	-	69.2	Y	N	N
A3-3b-2a	5	54.4	A3-3b	-	0	0	15.7	69.1	16.9	0	0	69.1	69.1	70	N	-	-	69.1	Y	N	N
A3-3b-2a	6	57.2	A3-3b	-	0	0	15.7	68.9	16.8	0	0	68.9	68.9	70	N	-	-	68.9	Y	N	N
A3-3b-2a	7	60	A3-3b	-	0	0	15.7	68.7	16.8	0	0	68.7	68.7	70	N	-	-	68.7	Y	N	N
A3-3b-2a	8	62.8	A3-3b	-	0	0	15.7	68.5	16.8	0	0	68.5	68.5	70	N	-	-	68.5	Y	N	N
A3-3b-2a	9	65.6	A3-3b	-	0	0	15.7	68.4	16.8	0	0	68.4	68.4	70	N	-	-	68.4	Y	N	N
A3-3b-2a	10	68.4	A3-3b	-	0	0	15.7	68.2	16.9	0	0	68.2	68.2	70	N	-	-	68.2	Y	N	N
A3-3b-2a	11	71.2	A3-3b	-	0	0	15.7	68	16.9	0	0	68	68.0	70	N	-	-	68.0	Y	N	N
A3-3b-2a	12	74	A3-3b	-	0	0	15.7	67.8	16.9	0	0	67.8	67.8	70	N	-	-	67.8	Y	N	N
A3-3b-2a	13	76.8	A3-3b	-	0	0	15.7	67.6	16.9	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
A3-3b-2a	14	79.6	A3-3b	-	0	0	15.7	67.5	16.9	0	0	67.5	67.5	70	N	-	-	67.5	Y	N	N
A3-3b-2a	15	82.4	A3-3b	-	0	0	15.7	67.3	16.9	0	0	67.3	67.3	70	N	-	-	67.3	Y	N	N
A3-3b-2a	16	85.2	A3-3b	-	0	0	15.7	67.2	16.9	0	0	67.2	67.2	70	N	-	-	67.2	Y	N	N
A3-3b-2a	17	88	A3-3b	-	0	0	15.7	67	16.9	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A3-3b-2a	18	90.8	A3-3b	-	0	0	15.7	66.9	16.8	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A3-3b-2a	19	93.6	A3-3b	-	0	0	15.7	66.7	16.8	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
A3-3b-2a	20	96.4	A3-3b	-	0	0	15.7	66.6	16.8	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A3-3b-2a	21	99.2	A3-3b	-	0	0	15.7	66.5	16.8	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
A3-3b-2a	22	102	A3-3b	-	0	0	15.7	66.3	16.8	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A3-3b-2a	23	104.8	A3-3b	-	0	0	15.7	66.2	16.8	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
A3-3b-2a	24	107.6	A3-3b	-	0	0	15.5	66.1	16.8	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A3-3b-2a	25	110.4	A3-3b	-	0	0	15.8	66	16.8	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
A3-3b-2a	26	113.2	A3-3b	-	0	0	15.9	65.9	16.8	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
A3-3b-2a	27	116	A3-3b	-	0	0	15.9	65.7	16.7	0	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
A3-3b-2a	28	118.8	A3-3b	-	0	0	16	65.6	16.7	0	0	65.6	65.6	70	N	-	-	65.6	Y	N	N
A3-3b-2a	29	121.6	A3-3b	-	0	0	16	65.5	16.7	0	0	65.5	65.5	70	N	-	-	65.5	Y	N	N
A3-3b-2a	30	124.4	A3-3b	-	0	0	16	65.4	16.7	0	0	65.4	65.4	70	N	-	-	65.4	Y	N	N
A3-3b-2a	31	127.2	A3-3b	-	0	0	16	65.3	16.7	0	0	65.3	65.3	70	N	-	-	65.3	Y	N	N
A3-3b-2a	32	130	A3-3b	-	0	0	15.9	65.2	16.7	0	0	65.2	65.2	70	N	-	-	65.2	Y	N	N
A3-3b-2a	33	132.8	A3-3b	-	0	0	16	65.1	16.7	0	0	65.1	65.1	70	N	-	-	65.1	Y	N	N
A3-3b-2a	34	135.6	A3-3b	-	0	0	16	65	16.7	0	0	65	65.0	70	N	-	-	65.0	Y	N	N
A3-3b-2a	35	138.4	A3-3b	-	0	0	16	64.9	16.6	0	0	64.9	64.9	70	N	-	-	64.9	Y	N	N
A3-3b-2a	36	141.2	A3-3b	-	0	0	16	64.8	16.6	0	0	64.8	64.8	70	N	-	-	64.8	Y	N	N
A3-3b-2a	37	144	A3-3b	-	0	0	16.1	64.7	16.5	0	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
A3-3b-2a	38	146.8	A3-3b	-	0	0	16.1	64.7	16.7	0	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
A3-3b-2a	39	149.6	A3-3b	-	0	0	16.3	64.6	16.9	0	0	64.6	64.6	70	N	-	-	64.6	Y	N	N
A3-3b-2a	40	152.4	A3-3b	-	0	0	16.5	64.5	17.1	0	0	64.5	64.5	70	N	-	-	64.5	Y	N	N
A3-3b-2a	41	155.2	A3-3b	-	0	0	16.6	64.4	17.3	0	0	64.4	64.4	70	N	-	-	64.4	Y	N	N
A3-3b-2b	1	43.2	A3-3b	-	0	0	9.6	61	41.3	0	0	61	61.0	70	N	-	-	61.0	Y	N	N
A3-3b-2b	2	46	A3-3b	-	0	0	9.6	68.6	45.2	0	0	68.6	68.6	70	N	-	-	68.6	Y	N	N
A3-3b-2b	3	48.8	A3-3b	-	0	0	9.6	69.5	45.8	0	0	69.5	69.5	70	N	-	-	69.5	Y	N	N
A3-3b-2b	4	51.6	A3-3b	-	0	0	9.6	69.6	49	0	0	69.6	69.6	70	N	-	-	69.6	Y	N	N
A3-3b-2b	5	54.4	A3-3b	-	0	0	9.6	69.6	51.8	0	0	69.6	69.6	70	N	-	-	69.6	Y	N	N
A3-3b-2b	6	57.2	A3-3b	-	0	0	9.6	69.4	55.3	0	0	69.6	69.6	70	N	-	-	69.6	Y	N	N
A3-3b-2b	7	60	A3-3b	-	0	0	9.6	69.3	57.1	0	0	69.5	69.5	70	N	-	-	69.5	Y	N	N
A3-3b-2b	8	62.8	A3-3b	-	0	0	9.6	69.1	57.5	0	0	69.4	69.4	70	N	-	-	69.4	Y	N	N
A3-3b-2b	9	65.6	A3-3b	-	0	0	9.6	68.9	57.6	0	0	69.2	69.2	70	N	-	-	69.2	Y	N	N
A3-3b-2b	10	68.4	A3-3b	-	0	0	9.6	68.8	57.6	0	0	69.1	69.1	70	N	-	-	69.1	Y	N	N
A3-3b-2b	11	71.2	A3-3b	-	0	0	9.6	68.6	57.5	0	0	69	69.0	70	N	-	-	69.0	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
A3-3b-2b	12	74	A3-3b	-	0	0	9.6	68.5	57.4	0	0	68.8	68.8	70	N	-	-	68.8	Y	N	N
A3-3b-2b	13	76.8	A3-3b	-	0	0	9.6	68.3	57.4	0	0	68.6	68.6	70	N	-	-	68.6	Y	N	N
A3-3b-2b	14	79.6	A3-3b	-	0	0	9.6	68.2	57.3	0	0	68.5	68.5	70	N	-	-	68.5	Y	N	N
A3-3b-2b	15	82.4	A3-3b	-	0	0	9.6	68	57.2	0	0	68.3	68.3	70	N	-	-	68.3	Y	N	N
A3-3b-2b	16	85.2	A3-3b	-	0	0	9.5	67.9	57.1	0	0	68.2	68.2	70	N	-	-	68.2	Y	N	N
A3-3b-2b	17	88	A3-3b	-	0	0	9.5	67.7	57	0	0	68.1	68.1	70	N	-	-	68.1	Y	N	N
A3-3b-2b	18	90.8	A3-3b	-	0	0	9.5	67.6	56.9	0	0	68	68.0	70	N	-	-	68.0	Y	N	N
A3-3b-2b	19	93.6	A3-3b	-	0	0	9.5	67.4	56.9	0	0	67.8	67.8	70	N	-	-	67.8	Y	N	N
A3-3b-2b	20	96.4	A3-3b	-	0	0	9.5	67.3	56.8	0	0	67.7	67.7	70	N	-	-	67.7	Y	N	N
A3-3b-2b	21	99.2	A3-3b	-	0	0	9.5	67.2	56.7	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
A3-3b-2b	22	102	A3-3b	-	0	0	9.5	67.1	56.7	0	0	67.4	67.4	70	N	-	-	67.4	Y	N	N
A3-3b-2b	23	104.8	A3-3b	-	0	0	9.5	66.9	56.6	0	0	67.3	67.3	70	N	-	-	67.3	Y	N	N
A3-3b-2b	24	107.6	A3-3b	-	0	0	9.2	66.8	56.6	0	0	67.2	67.2	70	N	-	-	67.2	Y	N	N
A3-3b-2b	25	110.4	A3-3b	-	0	0	9.7	66.7	56.5	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
A3-3b-2b	26	113.2	A3-3b	-	0	0	9.7	66.6	56.5	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
A3-3b-2b	27	116	A3-3b	-	0	0	9.8	66.5	56.4	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A3-3b-2b	28	118.8	A3-3b	-	0	0	9.8	66.4	56.4	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
A3-3b-2b	29	121.6	A3-3b	-	0	0	9.8	66.3	56.3	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
A3-3b-2b	30	124.4	A3-3b	-	0	0	9.8	66.2	56.2	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A3-3b-2b	31	127.2	A3-3b	-	0	0	9.8	66.1	56.2	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
A3-3b-2b	32	130	A3-3b	-	0	0	9.7	66	56.1	0	0	66.4	66.4	70	N	-	-	66.4	Y	N	N
A3-3b-2b	33	132.8	A3-3b	-	0	0	9.8	65.9	56.1	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A3-3b-2b	34	135.6	A3-3b	-	0	0	9.8	65.8	56	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A3-3b-2b	35	138.4	A3-3b	-	0	0	9.9	65.7	55.9	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
A3-3b-2b	36	141.2	A3-3b	-	0	0	9.9	65.6	55.9	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A3-3b-2b	37	144	A3-3b	-	0	0	9.9	65.6	55.8	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
A3-3b-2b	38	146.8	A3-3b	-	0	0	9.9	65.5	55.8	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
A3-3b-2b	39	149.6	A3-3b	-	0	0	9.8	65.4	55.8	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
A3-3b-2b	40	152.4	A3-3b	-	0	0	9.9	65.4	55.7	0	0	65.8	65.8	70	N	-	-	65.8	Y	N	N
A3-3b-2b	41	155.2	A3-3b	-	0	0	9.8	65.3	55.6	0	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
A3-3b-3	1	43.2	A3-3b	-	0	0	24.8	60.2	55.3	0	0	61.4	61.4	70	N	-	-	61.4	Y	N	N
A3-3b-3	2	46	A3-3b	-	0	0	24.9	63.1	63.7	0	0	66.4	66.4	70	N	-	-	66.4	Y	N	N
A3-3b-3	3	48.8	A3-3b	-	0	0	25.3	63	64.2	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A3-3b-3	4	51.6	A3-3b	-	0	0	25.7	62.9	64.5	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
A3-3b-3	5	54.4	A3-3b	-	0	0	26.1	62.8	64.8	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A3-3b-3	6	57.2	A3-3b	-	0	0	26.5	62.7	64.8	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
A3-3b-3	7	60	A3-3b	-	0	0	27	62.6	64.8	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
A3-3b-3	8	62.8	A3-3b	-	0	0	27.4	62.5	64.6	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
A3-3b-3	9	65.6	A3-3b	-	0	0	27.9	62.4	64.5	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
A3-3b-3	10	68.4	A3-3b	-	0	0	28.5	62.3	64.3	0	0	66.4	66.4	70	N	-	-	66.4	Y	N	N
A3-3b-3	11	71.2	A3-3b	-	0	0	28.9	62.2	64.2	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
A3-3b-3	12	74	A3-3b	-	0	0	29.4	62.1	64.1	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
A3-3b-3	13	76.8	A3-3b	-	0	0	29.8	62	63.9	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A3-3b-3	14	79.6	A3-3b	-	0	0	30.2	61.9	63.8	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
A3-3b-3	15	82.4	A3-3b	-	0	0	30.6	61.8	63.7	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
A3-3b-3	16	85.2	A3-3b	-	0	0	31.1	61.7	63.5	0	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
A3-3b-3	17	88	A3-3b	-	0	0	31.6	61.6	63.4	0	0	65.6	65.6	70	N	-	-	65.6	Y	N	N
A3-3b-3	18	90.8	A3-3b	-	0	0	32	61.5	63.3	0	0	65.5	65.5	70	N	-	-	65.5	Y	N	N
A3-3b-3	19	93.6	A3-3b	-	0	0	32.5	61.4	63.1	0	0	65.4	65.4	70	N	-	-	65.4	Y	N	N
A3-3b-3	20	96.4	A3-3b	-	0	0	33.1	61.4	63	0	0	65.3	65.3	70	N	-	-	65.3	Y	N	N
A3-3b-3	21	99.2	A3-3b	-	0	0	33.6	61.2	62.9	0	0	65.2	65.2	70	N	-	-	65.2	Y	N	N
A3-3b-3	22	102	A3-3b	-	0	0	34.3	61.1	62.8	0	0	65.1	65.1	70	N	-	-	65.1	Y	N	N
A3-3b-3	23	104.8	A3-3b	-	0	0	35	61.1	62.7	0	0	65	65.0	70	N	-	-	65.0	Y	N	N
A3-3b-3	24	107.6	A3-3b	-	0	0	35.8	61	62.6	0	0	64.9	64.9	70	N	-	-	64.9	Y	N	N
A3-3b-3	25	110.4	A3-3b	-	0	0	36.8	60.9	62.5	0	0	64.8	64.8	70	N	-	-	64.8	Y	N	N
A3-3b-3	26	113.2	A3-3b	-	0	0	38.1	60.8	62.4	0	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
A3-3b-3	27	116	A3-3b	-	0	0	39.6	60.8	62.3	0	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
A3-3b-3	28	118.8	A3-3b	-	0	0	41.5	60.7	62.2	0	0	64.5	64.5	70	N	-	-	64.5	Y	N	N
A3-3b-3	29	121.6	A3-3b	-	0	0	43.3	60.7	62.1	0	0	64.5	64.5	70	N	-	-	64.5	Y	N	N
A3-3b-3	30	124.4	A3-3b	-	0	0	44.6	60.6	62.1	0	0	64.5	64.5	70	N	-	-	64.5	Y	N	N
A3-3b-3	31	127.2	A3-3b	-	0	0	45.5	60.6	62	0	0	64.4	64.4	70	N	-	-	64.4	Y	N	N
A3-3b-3	32	130	A3-3b	-	0	0	45.8	60.6	61.9	0	0	64.3	64.3	70	N	-	-	64.3	Y	N	N
A3-3b-3	33	132.8	A3-3b	-	0	0	46.1	60.6	61.8	0	0	64.3	64.3	70	N	-	-	64.3	Y	N	N
A3-3b-3	34	135.6	A3-3b	-	0	0	46.2	60.6	61.7	0	0	64.2	64.2	70	N	-	-	64.2	Y	N	N
A3-3b-3	35	138.4	A3-3b	-	0	0	46.3	60.6	61.6	0	0	64.2	64.2	70	N	-	-	64.2	Y	N	N
A3-3b-3	36	141.2	A3-3b	-	0	0	46.4	60.7	61.5	0	0	64.2	64.2	70	N	-	-	64.2	Y	N	N
A3-3b-3	37	144	A3-3b	-	0	0	46.3	60.7	61.4	0	0	64.1	64.1	70	N	-	-	64.1	Y	N	N
A3-3b-3	38	146.8	A3-3b	-	0	0	46.4	60.7	61.3	0	0	64.1	64.1	70	N	-	-	64.1	Y	N	N
A3-3b-3	39	149.6	A3-3b	-	0	0	46.4	60.7	61.3	0	0	64.1	64.1	70	N	-	-	64.1	Y	N	N
A3-3b-3	40	152.4	A3-3b	-	0	0	46.5	60.7	61.2	0	0	64.1	64.1	70	N	-	-	64.1	Y	N	N
A3-3b-3	41	155.2	A3-3b	-	0	0	46.6	60.7	61.1	0	0	64	64.0	70	N	-	-	64.0	Y	N	N
A3-3b-4	1	43.2	A3-3b	-	0	0	23.7	48.9	60.1	0	0	60.5	60.5	70	N	-	-	60.5	Y	N	N
A3-3b-4	2	46	A3-3b	-	0	0	23.9	51.1	64.5	0	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
A3-3b-4	3	48.8	A3-3b	-	0	0	24.3	54.8	64.6	0	0	65	65.0	70	N	-	-	65.0	Y	N	N
A3-3b-4	4	51.6	A3-3b	-	0	0	24.7	58.3	64.5	0	0	65.4	65.4	70	N	-	-	65.4	Y	N	N
A3-3b-4	5	54.4	A3-3b	-	0	0	25	59.7	64.4	0	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
A3-3b-4	6	57.2	A3-3b	-	0	0	25.4	60.5	64.4	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
A3-3b-4	7	60	A3-3b	-	0	0	25.8	60.9	64.6	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A3-3b-4	8	62.8	A3-3b	-	0	0	26.2	61	64.7	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
A3-3b-4	9	65.6	A3-3b	-	0	0	26.7	61.1	64.6	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
A3-3b-4	10	68.4	A3-3b	-	0	0	27	61.1	64.5	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
A3-3b-4	11	71.2	A3-3b	-	0	0	27.5	61	64.4	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
A3-3b-4	12	74	A3-3b	-	0	0	28	60.9	64.3	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
A3-3b-4	13	76.8	A3-3b	-	0	0	28.4	60.8	64.1	0	0	65.8	65.8	70	N	-	-	65.8	Y	N	N
A3-3b-4	14	79.6	A3-3b	-	0	0	28.9	60.8	64	0	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
A3-3b-4	15	82.4	A3-3b	-	0	0	29.3	60.7	63.9	0	0	65.6	65.6	70	N	-	-	65.6	Y	N	N
A3-3b-4	16	85.2	A3-3b	-	0	0	29.7	60.6	63.7	0	0	65.4	65.4	70	N	-	-	65.4	Y	N	N
A3-3b-4	17	88	A3-3b	-	0	0	30	60.6	63.6	0	0	65.4	65.4	70	N	-	-	65.4	Y	N	N
A3-3b-4	18	90.8	A3-3b	-	0	0	30.5	60.5	63.5	0	0	65.3	65.3	70	N	-	-	65.3	Y	N	N
A3-3b-4	19	93.6	A3-3b	-	0	0	30.8	60.5	63.4	0	0	65.2	65.2	70	N	-	-	65.2	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
A3-3b-4	20	96.4	A3-3b	-	0	0	31.3	60.4	63.2	0	0	65	65.0	70	N	-	-	65.0	Y	N	N
A3-3b-4	21	99.2	A3-3b	-	0	0	31.8	60.3	63.1	0	0	64.9	64.9	70	N	-	-	64.9	Y	N	N
A3-3b-4	22	102	A3-3b	-	0	0	32.2	60.2	63	0	0	64.9	64.9	70	N	-	-	64.9	Y	N	N
A3-3b-4	23	104.8	A3-3b	-	0	0	32.8	60.2	62.9	0	0	64.8	64.8	70	N	-	-	64.8	Y	N	N
A3-3b-4	24	107.6	A3-3b	-	0	0	33.5	60.1	62.8	0	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
A3-3b-4	25	110.4	A3-3b	-	0	0	34.3	60.1	62.7	0	0	64.6	64.6	70	N	-	-	64.6	Y	N	N
A3-3b-4	26	113.2	A3-3b	-	0	0	35.3	60	62.6	0	0	64.5	64.5	70	N	-	-	64.5	Y	N	N
A3-3b-4	27	116	A3-3b	-	0	0	36.9	60	62.5	0	0	64.5	64.5	70	N	-	-	64.5	Y	N	N
A3-3b-4	28	118.8	A3-3b	-	0	0	38.1	59.9	62.4	0	0	64.4	64.4	70	N	-	-	64.4	Y	N	N
A3-3b-4	29	121.6	A3-3b	-	0	0	39.9	59.9	62.4	0	0	64.3	64.3	70	N	-	-	64.3	Y	N	N
A3-3b-4	30	124.4	A3-3b	-	0	0	40.8	59.8	62.3	0	0	64.2	64.2	70	N	-	-	64.2	Y	N	N
A3-3b-4	31	127.2	A3-3b	-	0	0	41.4	59.8	62.2	0	0	64.2	64.2	70	N	-	-	64.2	Y	N	N
A3-3b-4	32	130	A3-3b	-	0	0	41.7	59.8	62.1	0	0	64.1	64.1	70	N	-	-	64.1	Y	N	N
A3-3b-4	33	132.8	A3-3b	-	0	0	41.9	59.8	62	0	0	64	64.0	70	N	-	-	64.0	Y	N	N
A3-3b-4	34	135.6	A3-3b	-	0	0	42	59.7	61.9	0	0	64	64.0	70	N	-	-	64.0	Y	N	N
A3-3b-4	35	138.4	A3-3b	-	0	0	42	59.7	61.8	0	0	63.9	63.9	70	N	-	-	63.9	Y	N	N
A3-3b-4	36	141.2	A3-3b	-	0	0	42	59.7	61.7	0	0	63.9	63.9	70	N	-	-	63.9	Y	N	N
A3-3b-4	37	144	A3-3b	-	0	0	42.2	59.7	61.6	0	0	63.8	63.8	70	N	-	-	63.8	Y	N	N
A3-3b-4	38	146.8	A3-3b	-	0	0	42.2	59.8	61.5	0	0	63.8	63.8	70	N	-	-	63.8	Y	N	N
A3-3b-4	39	149.6	A3-3b	-	0	0	42.3	59.7	61.5	0	0	63.7	63.7	70	N	-	-	63.7	Y	N	N
A3-3b-4	40	152.4	A3-3b	-	0	0	42.4	59.8	61.4	0	0	63.7	63.7	70	N	-	-	63.7	Y	N	N
A3-3b-4	41	155.2	A3-3b	-	0	0	42.5	59.8	61.3	0	0	63.7	63.7	70	N	-	-	63.7	Y	N	N
A3-3b-5	1	43.2	A3-3b	-	0	0	23	53	56.5	0	0	58.1	58.1	70	N	-	-	58.1	Y	N	N
A3-3b-5	2	46	A3-3b	-	0	0	22.9	54.4	63.9	0	0	64.3	64.3	70	N	-	-	64.3	Y	N	N
A3-3b-5	3	48.8	A3-3b	-	0	0	23	54.8	64.2	0	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
A3-3b-5	4	51.6	A3-3b	-	0	0	23	55	64.3	0	0	64.8	64.8	70	N	-	-	64.8	Y	N	N
A3-3b-5	5	54.4	A3-3b	-	0	0	23	55.2	64.6	0	0	65.1	65.1	70	N	-	-	65.1	Y	N	N
A3-3b-5	6	57.2	A3-3b	-	0	0	23.1	55.2	64.7	0	0	65.2	65.2	70	N	-	-	65.2	Y	N	N
A3-3b-5	7	60	A3-3b	-	0	0	23.3	55.1	64.6	0	0	65.1	65.1	70	N	-	-	65.1	Y	N	N
A3-3b-5	8	62.8	A3-3b	-	0	0	23.5	55.1	64.5	0	0	64.9	64.9	70	N	-	-	64.9	Y	N	N
A3-3b-5	9	65.6	A3-3b	-	0	0	23.6	55.1	64.4	0	0	64.9	64.9	70	N	-	-	64.9	Y	N	N
A3-3b-5	10	68.4	A3-3b	-	0	0	23.8	55.1	64.3	0	0	64.8	64.8	70	N	-	-	64.8	Y	N	N
A3-3b-5	11	71.2	A3-3b	-	0	0	24	55.1	64.3	0	0	64.8	64.8	70	N	-	-	64.8	Y	N	N
A3-3b-5	12	74	A3-3b	-	0	0	24.2	55.1	64.1	0	0	64.6	64.6	70	N	-	-	64.6	Y	N	N
A3-3b-5	13	76.8	A3-3b	-	0	0	24.4	55.2	64	0	0	64.5	64.5	70	N	-	-	64.5	Y	N	N
A3-3b-5	14	79.6	A3-3b	-	0	0	24.6	55.2	63.9	0	0	64.5	64.5	70	N	-	-	64.5	Y	N	N
A3-3b-5	15	82.4	A3-3b	-	0	0	24.9	55.2	63.8	0	0	64.4	64.4	70	N	-	-	64.4	Y	N	N
A3-3b-5	16	85.2	A3-3b	-	0	0	25.2	55.3	63.7	0	0	64.3	64.3	70	N	-	-	64.3	Y	N	N
A3-3b-5	17	88	A3-3b	-	0	0	25.5	55.3	63.5	0	0	64.1	64.1	70	N	-	-	64.1	Y	N	N
A3-3b-5	18	90.8	A3-3b	-	0	0	25.8	55.3	63.4	0	0	64.1	64.1	70	N	-	-	64.1	Y	N	N
A3-3b-5	19	93.6	A3-3b	-	0	0	26.2	55.3	63.3	0	0	64	64.0	70	N	-	-	64.0	Y	N	N
A3-3b-5	20	96.4	A3-3b	-	0	0	26.5	55.3	63.2	0	0	63.9	63.9	70	N	-	-	63.9	Y	N	N
A3-3b-5	21	99.2	A3-3b	-	0	0	26.9	55.3	63.2	0	0	63.8	63.8	70	N	-	-	63.8	Y	N	N
A3-3b-5	22	102	A3-3b	-	0	0	27.2	55.3	63.1	0	0	63.7	63.7	70	N	-	-	63.7	Y	N	N
A3-3b-5	23	104.8	A3-3b	-	0	0	27.6	55.3	63	0	0	63.6	63.6	70	N	-	-	63.6	Y	N	N
A3-3b-5	24	107.6	A3-3b	-	0	0	27.9	55.3	62.9	0	0	63.6	63.6	70	N	-	-	63.6	Y	N	N
A3-3b-5	25	110.4	A3-3b	-	0	0	28.3	55.3	62.8	0	0	63.5	63.5	70	N	-	-	63.5	Y	N	N
A3-3b-5	26	113.2	A3-3b	-	0	0	28.6	55.2	62.7	0	0	63.4	63.4	70	N	-	-	63.4	Y	N	N
A3-3b-5	27	116	A3-3b	-	0	0	28.9	55.2	62.6	0	0	63.3	63.3	70	N	-	-	63.3	Y	N	N
A3-3b-5	28	118.8	A3-3b	-	0	0	29.2	55.2	62.5	0	0	63.2	63.2	70	N	-	-	63.2	Y	N	N
A3-3b-5	29	121.6	A3-3b	-	0	0	29.6	55.1	62.4	0	0	63.1	63.1	70	N	-	-	63.1	Y	N	N
A3-3b-5	30	124.4	A3-3b	-	0	0	29.8	55.1	62.3	0	0	63	63.0	70	N	-	-	63.0	Y	N	N
A3-3b-5	31	127.2	A3-3b	-	0	0	30.1	55.1	62.2	0	0	63	63.0	70	N	-	-	63.0	Y	N	N
A3-3b-5	32	130	A3-3b	-	0	0	30.3	55.1	62.1	0	0	62.9	62.9	70	N	-	-	62.9	Y	N	N
A3-3b-5	33	132.8	A3-3b	-	0	0	30.6	55.1	62	0	0	62.8	62.8	70	N	-	-	62.8	Y	N	N
A3-3b-5	34	135.6	A3-3b	-	0	0	30.9	55.1	61.9	0	0	62.7	62.7	70	N	-	-	62.7	Y	N	N
A3-3b-5	35	138.4	A3-3b	-	0	0	31.2	55.1	61.8	0	0	62.6	62.6	70	N	-	-	62.6	Y	N	N
A3-3b-5	36	141.2	A3-3b	-	0	0	31.5	55.1	61.7	0	0	62.6	62.6	70	N	-	-	62.6	Y	N	N
A3-3b-5	37	144	A3-3b	-	0	0	31.9	55.1	61.6	0	0	62.5	62.5	70	N	-	-	62.5	Y	N	N
A3-3b-5	38	146.8	A3-3b	-	0	0	32.3	55.1	61.6	0	0	62.5	62.5	70	N	-	-	62.5	Y	N	N
A3-3b-5	39	149.6	A3-3b	-	0	0	32.7	55.1	61.5	0	0	62.4	62.4	70	N	-	-	62.4	Y	N	N
A3-3b-5	40	152.4	A3-3b	-	0	0	33.1	55.1	61.4	0	0	62.3	62.3	70	N	-	-	62.3	Y	N	N
A3-3b-5	41	155.2	A3-3b	-	0	0	33.9	55	61.3	0	0	62.2	62.2	70	N	-	-	62.2	Y	N	N
A3-3b-6	1	43.2	A3-3b	-	0	0	22.1	45.8	59.2	0	0	59.4	59.4	70	N	-	-	59.4	Y	N	N
A3-3b-6	2	46	A3-3b	-	0	0	22.1	51	62.5	0	0	62.8	62.8	70	N	-	-	62.8	Y	N	N
A3-3b-6	3	48.8	A3-3b	-	0	0	22.2	54.4	62.6	0	0	63.2	63.2	70	N	-	-	63.2	Y	N	N
A3-3b-6	4	51.6	A3-3b	-	0	0	22.2	55.3	62.9	0	0	63.6	63.6	70	N	-	-	63.6	Y	N	N
A3-3b-6	5	54.4	A3-3b	-	0	0	22.2	55.5	63.7	0	0	64.3	64.3	70	N	-	-	64.3	Y	N	N
A3-3b-6	6	57.2	A3-3b	-	0	0	22.3	55.6	64	0	0	64.6	64.6	70	N	-	-	64.6	Y	N	N
A3-3b-6	7	60	A3-3b	-	0	0	22.5	55.6	64.1	0	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
A3-3b-6	8	62.8	A3-3b	-	0	0	22.6	55.6	64.1	0	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
A3-3b-6	9	65.6	A3-3b	-	0	0	22.8	55.5	64.1	0	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
A3-3b-6	10	68.4	A3-3b	-	0	0	22.9	55.5	64.2	0	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
A3-3b-6	11	71.2	A3-3b	-	0	0	23.1	55.6	64.1	0	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
A3-3b-6	12	74	A3-3b	-	0	0	23.2	55.5	64.1	0	0	64.6	64.6	70	N	-	-	64.6	Y	N	N
A3-3b-6	13	76.8	A3-3b	-	0	0	23.3	55.6	64	0	0	64.6	64.6	70	N	-	-	64.6	Y	N	N
A3-3b-6	14	79.6	A3-3b	-	0	0	23.6	55.5	63.9	0	0	64.5	64.5	70	N	-	-	64.5	Y	N	N
A3-3b-6	15	82.4	A3-3b	-	0	0	24	55.6	63.8	0	0	64.4	64.4	70	N	-	-	64.4	Y	N	N
A3-3b-6	16	85.2	A3-3b	-	0	0	24.2	55.6	63.7	0	0	64.3	64.3	70	N	-	-	64.3	Y	N	N
A3-3b-6	17	88	A3-3b	-	0	0	24.5	55.7	63.6	0	0	64.2	64.2	70	N	-	-	64.2	Y	N	N
A3-3b-6	18	90.8	A3-3b	-	0	0	24.8	55.7	63.5	0	0	64.1	64.1	70	N	-	-	64.1	Y	N	N
A3-3b-6	19	93.6	A3-3b	-	0	0	25.2	55.8	63.4	0	0	64.1	64.1	70	N	-	-	64.1	Y	N	N
A3-3b-6	20	96.4	A3-3b	-	0	0	25.6	55.8	63.3	0	0	64	64.0	70	N	-	-	64.0	Y	N	N
A3-3b-6	21	99.2	A3-3b	-	0	0	25.9	55.9	63.2	0	0	63.9	63.9	70	N	-	-	63.9	Y	N	N
A3-3b-6	22	102	A3-3b	-	0	0	26.3	55.9	63.1	0	0	63.8	63.8	70	N	-	-	63.8	Y	N	N
A3-3b-6	23	104.8	A3-3b	-	0	0	26.7	56	63	0	0	63.8	63.8	70	N	-	-	63.8	Y	N	N
A3-3b-6	24	107.6	A3-3b	-	0	0	27.1	56.1	62.9	0	0	63.7	63.7	70	N	-	-	63.7	Y	N	N
A3-3b-6	25	110.4	A3-3b	-	0	0	27.4	56.2	62.8	0	0	63.6	63.6	70	N	-	-	63.6	Y	N	N
A3-3b-6	26	113.2	A3-3b	-	0	0	27.7	56.2	62.7	0	0	63.6	63.6	70	N	-	-	63.6	Y	N	N
A3-3b-6	27	116	A3-3b	-	0	0	28	56.2	62.6	0	0	63.5	63.5	70	N	-	-	63.5	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
									dB (A)							C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
A3-3b-6	28	118.8	A3-3b	-	0	0	28.3	56.2	62.5	0	0	63.4	63.4	70	N	-	-	63.4	Y	N	N
A3-3b-6	29	121.6	A3-3b	-	0	0	28.6	56.2	62.4	0	0	63.3	63.3	70	N	-	-	63.3	Y	N	N
A3-3b-6	30	124.4	A3-3b	-	0	0	28.9	56.3	62.3	0	0	63.3	63.3	70	N	-	-	63.3	Y	N	N
A3-3b-6	31	127.2	A3-3b	-	0	0	29.2	56.3	62.2	0	0	63.2	63.2	70	N	-	-	63.2	Y	N	N
A3-3b-6	32	130	A3-3b	-	0	0	29.5	56.2	62.1	0	0	63.1	63.1	70	N	-	-	63.1	Y	N	N
A3-3b-6	33	132.8	A3-3b	-	0	0	29.9	56.2	62	0	0	63	63.0	70	N	-	-	63.0	Y	N	N
A3-3b-6	34	135.6	A3-3b	-	0	0	30.2	56.2	61.9	0	0	62.9	62.9	70	N	-	-	62.9	Y	N	N
A3-3b-6	35	138.4	A3-3b	-	0	0	30.5	56.2	61.8	0	0	62.9	62.9	70	N	-	-	62.9	Y	N	N
A3-3b-6	36	141.2	A3-3b	-	0	0	30.8	56.2	61.7	0	0	62.8	62.8	70	N	-	-	62.8	Y	N	N
A3-3b-6	37	144	A3-3b	-	0	0	31.2	56.2	61.7	0	0	62.8	62.8	70	N	-	-	62.8	Y	N	N
A3-3b-6	38	146.8	A3-3b	-	0	0	31.6	56.1	61.6	0	0	62.7	62.7	70	N	-	-	62.7	Y	N	N
A3-3b-6	39	149.6	A3-3b	-	0	0	32	56.1	61.5	0	0	62.6	62.6	70	N	-	-	62.6	Y	N	N
A3-3b-6	40	152.4	A3-3b	-	0	0	32.5	56.1	61.4	0	0	62.5	62.5	70	N	-	-	62.5	Y	N	N
A3-3b-6	41	155.2	A3-3b	-	0	0	33	56	61.3	0	0	62.5	62.5	70	N	-	-	62.5	Y	N	N
A3-4-1	1	20.7	A3-4	-	0	0	22.6	53.6	63.3	0	0	63.8	63.8	65	N	-	-	63.8	Y	N	N
A3-4-1	2	23.7	A3-4	-	0	0	22.6	53.6	63.3	0	0	63.8	63.8	65	N	-	-	63.8	Y	N	N
A3-4-1	3	26.7	A3-4	-	0	0	22.6	53.6	63.2	0	0	63.7	63.7	65	N	-	-	63.7	Y	N	N
A3-4-1	4	29.7	A3-4	-	0	0	22.6	53.6	63.1	0	0	63.6	63.6	65	N	-	-	63.6	Y	N	N
A3-4-1	5	32.7	A3-4	-	0	0	22.6	53.6	63	0	0	63.5	63.5	65	N	-	-	63.5	Y	N	N
A3-4-1	6	35.7	A3-4	-	0	0	22.6	53.6	62.9	0	0	63.4	63.4	65	N	-	-	63.4	Y	N	N
A3-4-1	7	38.7	A3-4	-	0	0	22.6	53.6	62.8	0	0	63.3	63.3	65	N	-	-	63.3	Y	N	N
A3-4-1	8	41.7	A3-4	-	0	0	22.6	53.6	62.6	0	0	63.2	63.2	65	N	-	-	63.2	Y	N	N
A3-4-2	1	20.7	A3-4	-	0	0	0	53.7	63.8	0	0	64.3	64.3	65	N	-	-	64.3	Y	N	N
A3-4-2	2	23.7	A3-4	-	0	0	0	53.7	63.8	0	0	64.3	64.3	65	N	-	-	64.3	Y	N	N
A3-4-2	3	26.7	A3-4	-	0	0	0	53.7	63.7	0	0	64.2	64.2	65	N	-	-	64.2	Y	N	N
A3-4-2	4	29.7	A3-4	-	0	0	0	53.7	63.7	0	0	64.2	64.2	65	N	-	-	64.2	Y	N	N
A3-4-2	5	32.7	A3-4	-	0	0	0	53.7	63.6	0	0	64.1	64.1	65	N	-	-	64.1	Y	N	N
A3-4-2	6	35.7	A3-4	-	0	0	0	53.7	63.6	0	0	64.1	64.1	65	N	-	-	64.1	Y	N	N
A3-4-2	7	38.7	A3-4	-	0	0	0	53.7	63.5	0	0	64	64.0	65	N	-	-	64.0	Y	N	N
A3-4-2	8	41.7	A3-4	-	0	0	0	53.7	63.4	0	0	63.9	63.9	65	N	-	-	63.9	Y	N	N
A3-6-1	1	22.7	A3-6	-	0	0	0	68	68.9	0	0	71.5	71.5	70	Y	-	-	71.5	Y	Y	Y
A3-6-1	2	25.9	A3-6	-	0	0	0	67.9	68.6	0	0	71.3	71.3	70	Y	-	-	71.3	Y	Y	Y
A3-6-1	3	29.1	A3-6	-	0	0	0	67.7	68.3	0	0	71	71.0	70	Y	-	-	71.0	Y	Y	Y
A3-6-1	4	32.3	A3-6	-	0	0	0	67.6	68	0	0	70.8	70.8	70	Y	-	-	70.8	Y	Y	Y
A3-6-1	5	35.5	A3-6	-	0	0	0	67.5	67.8	0	0	70.6	70.6	70	Y	-	-	70.6	Y	Y	Y
A3-6-1	6	38.7	A3-6	-	0	0	0	67.3	67.5	0	0	70.4	70.4	70	N	-	-	70.4	Y	N	N
A3-6-1	7	41.9	A3-6	-	0	0	0	67.1	67.2	0	0	70.2	70.2	70	N	-	-	70.2	Y	N	N
A3-6-1	8	45.1	A3-6	-	0	0	0	66.9	66.9	0	0	69.9	69.9	70	N	-	-	69.9	Y	N	N
A3-6-1	9	48.3	A3-6	-	0	0	0	66.8	66.6	0	0	69.7	69.7	70	N	-	-	69.7	Y	N	N
A3-6-1	10	51.5	A3-6	-	0	0	0	66.6	66.3	0	0	69.5	69.5	70	N	-	-	69.5	Y	N	N
A3-6-1	11	54.7	A3-6	-	0	0	0	66.5	66.1	0	0	69.3	69.3	70	N	-	-	69.3	Y	N	N
A3-6-1	12	57.9	A3-6	-	0	0	0	66.3	65.8	0	0	69.1	69.1	70	N	-	-	69.1	Y	N	N
A3-6-1	13	61.1	A3-6	-	0	0	0	66.1	65.6	0	0	68.9	68.9	70	N	-	-	68.9	Y	N	N
A3-6-1	14	64.3	A3-6	-	0	0	0	66	65.4	0	0	68.7	68.7	70	N	-	-	68.7	Y	N	N
A3-6-1	15	67.5	A3-6	-	0	0	0	65.8	65.2	0	0	68.5	68.5	70	N	-	-	68.5	Y	N	N
A3-6-1	16	70.7	A3-6	-	0	0	0	65.7	65	0	0	68.4	68.4	70	N	-	-	68.4	Y	N	N
A3-6-1	17	73.9	A3-6	-	0	0	0	65.5	64.8	0	0	68.2	68.2	70	N	-	-	68.2	Y	N	N
A3-6-1	18	77.1	A3-6	-	0	0	0	65.4	64.6	0	0	68	68.0	70	N	-	-	68.0	Y	N	N
A3-6-2	1	22.7	A3-6	-	0	0	43.8	72.2	63.2	0	0	72.7	72.7	70	Y	-	-	72.7	Y	Y	Y
A3-6-2	2	25.9	A3-6	-	0	0	44.4	72	63.1	0	0	72.5	72.5	70	Y	-	-	72.5	Y	Y	Y
A3-6-2	3	29.1	A3-6	-	0	0	45.1	71.7	63	0	0	72.3	72.3	70	Y	-	-	72.3	Y	Y	Y
A3-6-2	4	32.3	A3-6	-	0	0	45.6	71.5	62.9	0	0	72	72.0	70	Y	-	-	72.0	Y	Y	Y
A3-6-2	5	35.5	A3-6	-	0	0	46.3	71.2	62.7	0	0	71.8	71.8	70	Y	-	-	71.8	Y	Y	Y
A3-6-2	6	38.7	A3-6	-	0	0	47.1	70.9	62.6	0	0	71.5	71.5	70	Y	-	-	71.5	Y	Y	Y
A3-6-2	7	41.9	A3-6	-	0	0	48	70.7	62.4	0	0	71.3	71.3	70	Y	-	-	71.3	Y	Y	Y
A3-6-2	8	45.1	A3-6	-	0	0	49	70.5	62.3	0	0	71.1	71.1	70	Y	-	-	71.1	Y	Y	Y
A3-6-2	9	48.3	A3-6	-	0	0	49.8	70.2	62.1	0	0	70.9	70.9	70	Y	-	-	70.9	Y	Y	Y
A3-6-2	10	51.5	A3-6	-	0	0	50.6	70	61.9	0	0	70.7	70.7	70	Y	-	-	70.7	Y	Y	Y
A3-6-2	11	54.7	A3-6	-	0	0	51.2	69.8	61.7	0	0	70.5	70.5	70	Y	-	-	70.5	Y	Y	Y
A3-6-2	12	57.9	A3-6	-	0	0	51.9	69.6	61.6	0	0	70.3	70.3	70	N	-	-	70.3	Y	N	N
A3-6-2	13	61.1	A3-6	-	0	0	52.5	69.4	61.4	0	0	70.1	70.1	70	N	-	-	70.1	Y	N	N
A3-6-2	14	64.3	A3-6	-	0	0	53.2	69.2	61.2	0	0	69.9	69.9	70	N	-	-	69.9	Y	N	N
A3-6-2	15	67.5	A3-6	-	0	0	53.7	69	61	0	0	69.8	69.8	70	N	-	-	69.8	Y	N	N
A3-6-2	16	70.7	A3-6	-	0	0	54.3	68.8	60.9	0	0	69.6	69.6	70	N	-	-	69.6	Y	N	N
A3-6-2	17	73.9	A3-6	-	0	0	54.8	68.7	60.7	0	0	69.5	69.5	70	N	-	-	69.5	Y	N	N
A3-6-2	18	77.1	A3-6	-	0	0	55	68.5	60.6	0	0	69.3	69.3	70	N	-	-	69.3	Y	N	N
A3-6-3	1	22.7	A3-6	-	4	0	51.8	72	55	0	0	72.1	72.1	70	Y	-	-	68.1	Y	Y	Y
A3-6-3	2	25.9	A3-6	-	4	0	55.9	72	55.3	0	0	72.2	72.2	70	Y	-	-	68.2	Y	Y	Y
A3-6-3	3	29.1	A3-6	-	4.1	0	57.2	72	55.3	0	0	72.2	72.2	70	Y	-	-	68.1	Y	Y	Y
A3-6-3	4	32.3	A3-6	-	4.1	0	57.6	71.9	55.4	0	0	72.2	72.2	70	Y	-	-	68.1	Y	Y	Y
A3-6-3	5	35.5	A3-6	-	4	0	58	71.8	55.4	0	0	72.1	72.1	70	Y	-	-	68.1	Y	Y	Y
A3-6-3	6	38.7	A3-6	-	4.1	0	58.3	71.6	55.3	0	0	71.9	71.9	70	Y	-	-	67.8	Y	Y	Y
A3-6-3	7	41.9	A3-6	-	4.1	0	58.8	71.4	55.3	0	0	71.7	71.7	70	Y	-	-	67.6	Y	Y	Y
A3-6-3	8	45.1	A3-6	-	4.2	0	59.2	71.2	55.2	0	0	71.6	71.6	70	Y	-	-	67.4	Y	Y	Y
A3-6-3	9	48.3	A3-6	-	4.2	0	59.5	71	55.1	0	0	71.4	71.4	70	Y	-	-	67.2	Y	Y	Y
A3-6-3	10	51.5	A3-6	-	4.2	0	59.8	70.7	55.1	0	0	71.2	71.2	70	Y	-	-	67.0	Y	Y	Y
A3-6-3	11	54.7	A3-6	-	4.3	0	59.9	70.5	55	0	0	71	71.0	70	Y	-	-	66.7	Y	Y	Y
A3-6-3	12	57.9	A3-6	-	4.2	0	60	70.3	55	0	0	70.8	70.8	70	Y	-	-	66.6	Y	Y	Y
A3-6-3	13	61.1	A3-6	-	4.2	0	60	70.1	54.9	0	0	70.6	70.6	70	Y	-	-	66.4	Y	Y	Y
A3-6-3	14	64.3	A3-6	-	4.3	0	60.1	69.9	54.8	0	0	70.5	70.5	70	Y	-	-	66.2	Y	Y	Y
A3-6-3	15	67.5	A3-6	-	4.3	0	60.1	69.7	54.8	0	0	70.3	70.3	70	N	-	-	66.0	Y	N	N
A3-6-3	16	70.7	A3-6	-	4.3	0	60.1	69.5	54.7	0	0	70.1	70.1	70	N	-	-	65.8	Y	N	N
A3-6-3	17	73.9	A3-6	-	4	0	60.1	69.3	54.7	0	0	70	70.0	70	N	-	-	66.0	Y	N	N
A3-6-3	18	77.1	A3-6	-	4.3	0	60.1	69.2	54.6	0	0	69.8	69.8	70	N	-	-	65.5	Y	N	N
A3-6-4	1	22.7	A3-6	-	9.9	0	55.9	70.6	55.8	0	0	70.9	70.9	70	Y	-	-	61.0	Y	Y	Y
A3-6-4	2	25.9	A3-6	-	10	0	59.4	71.9	55.9	0	0	72.2	72.2	70	Y	-	-	62.2	Y	Y	Y
A3-6-4	3	29.1	A3-6	-	10	0	60.5	72.6	55.9	0	0	72.9	72.9	70	Y	-	-	62.9	Y	Y	Y
A3-6-4	4	32.3	A3-6	-	10.1	0	60.8	73.1	55.8	0	0	73.4	73.4	70	Y	-	-	63.3	Y	Y	Y
A3-6-4	5	35.5	A3-6	-	10.2	0	61.2	73.1	55.7	0	0	73.5	73.5	70	Y	-	-	63.3	Y	Y	Y
A3-6-4	6	38.7	A3-6	-	10.3	0	61.5	73	55.6	0	0	73.4	73.4	70	Y	-	-	63.1	Y	Y	Y

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT															
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	New Roads[2]					New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
A3-6-4	7	41.9	A3-6	-	10.4	0	61.8	72.8	55.5	0	0	73.2	73.2	70	Y	-	-	62.8	Y	Y	Y
A3-6-4	8	45.1	A3-6	-	10.5	0	62	72.6	55.4	0	0	73	73.0	70	Y	-	-	62.5	Y	Y	Y
A3-6-4	9	48.3	A3-6	-	10.6	0	62.1	72.3	55.3	0	0	72.8	72.8	70	Y	-	-	62.2	Y	Y	Y
A3-6-4	10	51.5	A3-6	-	10.7	0	62.1	72.1	55.2	0	0	72.6	72.6	70	Y	-	-	61.9	Y	Y	Y
A3-6-4	11	54.7	A3-6	-	10.8	0	62.2	71.9	55.1	0	0	72.4	72.4	70	Y	-	-	61.6	Y	Y	Y
A3-6-4	12	57.9	A3-6	-	11	0	62.2	71.7	55	0	0	72.2	72.2	70	Y	-	-	61.2	Y	Y	Y
A3-6-4	13	61.1	A3-6	-	11.1	0	62.2	71.5	54.9	0	0	72	72.0	70	Y	-	-	60.9	Y	Y	Y
A3-6-4	14	64.3	A3-6	-	11.2	0	62.3	71.3	54.8	0	0	71.9	71.9	70	Y	-	-	60.7	Y	Y	Y
A3-6-4	15	67.5	A3-6	-	11.4	0	62.3	71.1	54.8	0	0	71.7	71.7	70	Y	-	-	60.3	Y	Y	Y
A3-6-4	16	70.7	A3-6	-	11.8	0	62.3	70.9	54.7	0	0	71.5	71.5	70	Y	-	-	59.7	Y	Y	Y
A3-6-4	17	73.9	A3-6	-	12.3	0	62.3	70.7	54.6	0	0	71.4	71.4	70	Y	-	-	59.1	Y	Y	Y
A3-6-4	18	77.1	A3-6	-	12.9	0	62.4	70.5	54.6	0	0	71.2	71.2	70	Y	-	-	58.3	Y	Y	Y
A3-6-5	1	22.7	A3-6	-	11.6	9.8	59.7	70.3	54.8	0	0	70.7	70.7	70	Y	-	-	56.9	Y	Y	Y
A3-6-5	2	25.9	A3-6	-	11.8	10.1	60.9	70.5	54.7	0	0	71.1	71.1	70	Y	-	-	57.1	Y	Y	Y
A3-6-5	3	29.1	A3-6	-	12.1	10.4	61.9	71	54.5	0	0	71.6	71.6	70	Y	-	-	57.3	Y	Y	Y
A3-6-5	4	32.3	A3-6	-	12.3	10.8	62.1	71.3	54.3	0	0	71.9	71.9	70	Y	-	-	57.3	Y	Y	Y
A3-6-5	5	35.5	A3-6	-	12.6	11.2	62.2	71.5	54.1	0	0	72	72.0	70	Y	-	-	57.0	Y	Y	Y
A3-6-5	6	38.7	A3-6	-	12.9	11.5	62.5	71.7	53.8	0	0	72.3	72.3	70	Y	-	-	57.0	Y	Y	Y
A3-6-5	7	41.9	A3-6	-	13.3	11.8	62.6	71.8	53.6	0	0	72.3	72.3	70	Y	-	-	56.7	Y	Y	Y
A3-6-5	8	45.1	A3-6	-	13.6	12.2	62.7	71.7	53.5	0	0	72.3	72.3	70	Y	-	-	56.3	Y	Y	Y
A3-6-5	9	48.3	A3-6	-	13.9	12.6	62.8	71.6	53.3	0	0	72.2	72.2	70	Y	-	-	55.9	Y	Y	Y
A3-6-5	10	51.5	A3-6	-	14.3	12.9	62.9	71.5	53.1	0	0	72.1	72.1	70	Y	-	-	55.4	Y	Y	Y
A3-6-5	11	54.7	A3-6	-	14.6	13.3	62.9	71.3	52.9	0	0	72	72.0	70	Y	-	-	55.0	Y	Y	Y
A3-6-5	12	57.9	A3-6	-	15	13.6	62.9	71.2	52.8	0	0	71.8	71.8	70	Y	-	-	54.4	Y	Y	Y
A3-6-5	13	61.1	A3-6	-	15.4	14	62.9	71	52.6	0	0	71.7	71.7	70	Y	-	-	53.9	Y	Y	Y
A3-6-5	14	64.3	A3-6	-	15.8	14.3	62.9	70.8	52.5	0	0	71.6	71.6	70	Y	-	-	53.5	Y	Y	Y
A3-6-5	15	67.5	A3-6	-	16.1	14.8	62.9	70.7	52.4	0	0	71.4	71.4	70	Y	-	-	52.9	Y	Y	Y
A3-6-5	16	70.7	A3-6	-	16.6	15.1	62.9	70.5	52.2	0	0	71.3	71.3	70	Y	-	-	52.4	Y	Y	Y
A3-6-5	17	73.9	A3-6	-	17.1	15.5	63	70.4	52.1	0	0	71.2	71.2	70	Y	-	-	51.8	Y	Y	Y
A3-6-5	18	77.1	A3-6	-	17.7	15.8	63	70.3	52	0	0	71.1	71.1	70	Y	-	-	51.2	Y	Y	Y
A3-6-6	1	22.7	A3-6	-	7.4	0	57.3	65	50	0	0	65.8	65.8	70	N	-	-	58.4	Y	N	N
A3-6-6	2	25.9	A3-6	-	7.7	0	57.3	65	49.8	0	0	65.8	65.8	70	N	-	-	58.1	Y	N	N
A3-6-6	3	29.1	A3-6	-	8	0	57.3	64.9	49.6	0	0	65.7	65.7	70	N	-	-	57.7	Y	N	N
A3-6-6	4	32.3	A3-6	-	8.3	0	57.3	64.9	49.4	0	0	65.7	65.7	70	N	-	-	57.4	Y	N	N
A3-6-6	5	35.5	A3-6	-	8.6	0	57.2	65	49.2	0	0	65.7	65.7	70	N	-	-	57.1	Y	N	N
A3-6-6	6	38.7	A3-6	-	8.9	0	57.2	65	49	0	0	65.8	65.8	70	N	-	-	56.9	Y	N	N
A3-6-6	7	41.9	A3-6	-	9.2	0	57.2	65	48.9	0	0	65.8	65.8	70	N	-	-	56.6	Y	N	N
A3-6-6	8	45.1	A3-6	-	9.5	0	57.2	65	48.7	0	0	65.7	65.7	70	N	-	-	56.2	Y	N	N
A3-6-6	9	48.3	A3-6	-	9.9	0	57.1	64.9	48.5	0	0	65.7	65.7	70	N	-	-	55.8	Y	N	N
A3-6-6	10	51.5	A3-6	-	10.2	0	57.1	64.9	48.4	0	0	65.6	65.6	70	N	-	-	55.4	Y	N	N
A3-6-6	11	54.7	A3-6	-	10.6	0	57	64.9	48.2	0	0	65.6	65.6	70	N	-	-	55.0	Y	N	N
A3-6-6	12	57.9	A3-6	-	11	0	57	64.8	48.1	0	0	65.6	65.6	70	N	-	-	54.6	Y	N	N
A3-6-6	13	61.1	A3-6	-	11.2	0	57	64.8	47.9	0	0	65.5	65.5	70	N	-	-	54.3	Y	N	N
A3-6-6	14	64.3	A3-6	-	11.6	0	57	64.7	47.8	0	0	65.5	65.5	70	N	-	-	53.9	Y	N	N
A3-6-6	15	67.5	A3-6	-	12	0	56.9	64.7	47.7	0	0	65.4	65.4	70	N	-	-	53.4	Y	N	N
A3-6-6	16	70.7	A3-6	-	12.2	0	56.9	64.6	47.5	0	0	65.4	65.4	70	N	-	-	53.2	Y	N	N
A3-6-6	17	73.9	A3-6	-	12.6	0	56.9	64.6	47.4	0	0	65.3	65.3	70	N	-	-	52.7	Y	N	N
A3-6-6	18	77.1	A3-6	-	13	0	57	64.5	47.3	0	0	65.3	65.3	70	N	-	-	52.3	Y	N	N
A3-6-7	1	22.7	A3-6	-	0	16.9	11.3	56.5	64.6	0	0	65.3	65.3	70	N	-	-	48.4	Y	N	N
A3-6-7	2	25.9	A3-6	-	0	17.4	11.3	56.5	64.6	0	0	65.3	65.3	70	N	-	-	47.9	Y	N	N
A3-6-7	3	29.1	A3-6	-	0	18	11.3	56.5	64.5	0	0	65.2	65.2	70	N	-	-	47.2	Y	N	N
A3-6-7	4	32.3	A3-6	-	0	18.5	11.3	56.5	64.5	0	0	65.2	65.2	70	N	-	-	46.7	Y	N	N
A3-6-7	5	35.5	A3-6	-	0	18.9	11.3	56.4	64.4	0	0	65.1	65.1	70	N	-	-	46.2	Y	N	N
A3-6-7	6	38.7	A3-6	-	0	19.4	11.3	56.4	64.4	0	0	65.1	65.1	70	N	-	-	45.7	Y	N	N
A3-6-7	7	41.9	A3-6	-	0	20	11.3	56.4	64.3	0	0	65	65.0	70	N	-	-	45.0	Y	N	N
A3-6-7	8	45.1	A3-6	-	0	20.5	11.3	56.4	64.2	0	0	64.9	64.9	70	N	-	-	44.4	Y	N	N
A3-6-7	9	48.3	A3-6	-	0	21	11.4	56.4	64.1	0	0	64.8	64.8	70	N	-	-	43.8	Y	N	N
A3-6-7	10	51.5	A3-6	-	0	21.5	11.4	56.4	64	0	0	64.7	64.7	70	N	-	-	43.2	Y	N	N
A3-6-7	11	54.7	A3-6	-	0	22	11.4	56.3	63.9	0	0	64.6	64.6	70	N	-	-	42.6	Y	N	N
A3-6-7	12	57.9	A3-6	-	0	22.6	11.4	56.3	63.8	0	0	64.5	64.5	70	N	-	-	41.9	Y	N	N
A3-6-7	13	61.1	A3-6	-	0	23.3	11.4	56.3	63.7	0	0	64.4	64.4	70	N	-	-	41.1	Y	N	N
A3-6-7	14	64.3	A3-6	-	0	23.8	11.4	56.3	63.6	0	0	64.3	64.3	70	N	-	-	40.5	Y	N	N
A3-6-7	15	67.5	A3-6	-	0	24.3	11.4	56.2	63.5	0	0	64.2	64.2	70	N	-	-	39.9	Y	N	N
A3-6-7	16	70.7	A3-6	-	0	25	11.4	56.2	63.4	0	0	64.1	64.1	70	N	-	-	39.1	Y	N	N
A3-6-7	17	73.9	A3-6	-	0	25.6	11.4	56.2	63.3	0	0	64	64.0	70	N	-	-	38.4	Y	N	N
A3-6-7	18	77.1	A3-6	-	0	26.2	11.3	56.1	63.2	0	0	64	64.0	70	N	-	-	37.8	Y	N	N
A3-6-8	1	22.7	A3-6	-	0	0	13.3	57	64	0	0	64.8	64.8	70	N	-	-	64.8	Y	N	N
A3-6-8	2	25.9	A3-6	-	0	0	13.3	57	64	0	0	64.8	64.8	70	N	-	-	64.8	Y	N	N
A3-6-8	3	29.1	A3-6	-	0	0	13.3	57	64	0	0	64.8	64.8	70	N	-	-	64.8	Y	N	N
A3-6-8	4	32.3	A3-6	-	0	0	13.3	57	63.9	0	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
A3-6-8	5	35.5	A3-6	-	0	0	13.3	56.9	63.9	0	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
A3-6-8	6	38.7	A3-6	-	0	0	13.3	56.9	63.8	0	0	64.6	64.6	70	N	-	-	64.6	Y	N	N
A3-6-8	7	41.9	A3-6	-	0	0	13.3	56.9	63.7	0	0	64.5	64.5	70	N	-	-	64.5	Y	N	N
A3-6-8	8	45.1	A3-6	-	0	0	13.3	56.9	63.6	0	0	64.4	64.4	70	N	-	-	64.4	Y	N	N
A3-6-8	9	48.3	A3-6	-	0	0	13.3	56.8	63.5	0	0	64.3	64.3	70	N	-	-	64.3	Y	N	N
A3-6-8	10	51.5	A3-6	-	0	0	13.3	56.8	63.5	0	0	64.3	64.3	70	N	-	-	64.3	Y	N	N
A3-6-8	11	54.7	A3-6	-	0	0	13.3	56.8	63.4	0	0	64.2	64.2	70	N	-	-	64.2	Y	N	N
A3-6-8	12	57.9	A3-6	-	0	0	13.3	56.7	63.3	0	0	64.2	64.2	70	N	-	-	64.2	Y	N	N
A3-6-8	13	61.1	A3-6	-	0	0	13.3	56.7	63.2	0	0	64.1	64.1	70	N	-	-	64.1	Y	N	N
A3-6-8	14	64.3	A3-6	-	0	0	13.3	56.6	63.1	0	0	64	64.0	70	N	-	-	64.0	Y	N	N
A3-6-8	15	67.5	A3-6	-	0	0	13.3	56.6	62.9	0	0	63.8	63.8	70	N	-	-	63.8	Y	N	N
A3-6-8	16	70.7	A3-6	-	0	0	13.3	56.6	62.8	0	0	63.7	63.7	70	N	-	-	63.7	Y	N	N
A3-6-8	17	73.9	A3-6	-	0	0	13.3	56.5	62.7	0	0	63.6	63.6	70	N	-	-	63.6	Y	N	N
A3-6-8	18	77.1	A3-6	-	0	0	13.3	56.5	62.6	0	0	63.6	63.6	70	N	-	-	63.6	Y	N	N
B2-3-1	1	14.7	B2-3	-	40.9	0	0	58.6	54.5	40.4	0	60.1	60.1	65	N	-	-	19.2	Y	N	N
B2-3-1	2	17.7	B2-3	-	43.3	0	0	58.6	54.5	40.4	0	60.1	60.2	65	N	-	-	16.9	Y	N	N
B2-3-1	3	20.7	B2-3	-	45.6	0	0	58.6	54.5	40.4	0	60.1	60.2	65	N	-	-	14.6	Y	N	N
B2-3-1	4	23.7	B2-3	-	46.6	0	0	58.5	54.5	40.4	0	60	60.2	65	N	-	-	13.6	Y	N	N
B2-3-1	5	26.7	B2-3	-	47.2	0	0	58.5	54.5	40.4	0	60	60.2	65	N	-	-	13.0	Y	N	N
B2-3-1	6	29.7	B2-3	-	47.5	0	0	58.5	54.4	40.4	0	60	60.2	65	N	-	-	12.7	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance: C - A dB(A) [D]	Check Project Impact Significance: D ≥ 1dB(A)	Check Direct Mitigation: New Road Contribution dB(A) [E]	Check Direct Mitigation: New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	Check Direct Mitigation: New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)												
B2-3-1	7	32.7	B2-3	-	47.7	0	0	58.5	54.4	40.4	0	59.9	60.2	65	N	-	-	12.5	Y	N	N
B2-3-1	8	35.7	B2-3	-	47.7	0	0	58.5	54.4	40.3	0	60	60.2	65	N	-	-	12.5	Y	N	N
B2-3-2	1	14.7	B2-3	-	46.1	0	0	62.7	0	45.1	0	62.8	62.9	65	N	-	-	16.8	Y	N	N
B2-3-2	2	17.7	B2-3	-	48.4	0	0	62.6	0	45.8	0	62.7	62.9	65	N	-	-	14.5	Y	N	N
B2-3-2	3	20.7	B2-3	-	50.4	0	0	62.6	0	46.6	0	62.7	63.0	65	N	-	-	12.6	Y	N	N
B2-3-2	4	23.7	B2-3	-	51.4	0	0	62.7	0	47.5	0	62.8	63.1	65	N	-	-	11.7	Y	N	N
B2-3-2	5	26.7	B2-3	-	51.9	0	0	62.7	0	48.5	0	62.9	63.2	65	N	-	-	11.3	Y	N	N
B2-3-2	6	29.7	B2-3	-	52.3	0	0	62.6	0	49.6	0	62.8	63.2	65	N	-	-	10.9	Y	N	N
B2-3-2	7	32.7	B2-3	-	52.6	0	0	62.7	0	50.8	0	62.9	63.3	65	N	-	-	10.7	Y	N	N
B2-3-2	8	35.7	B2-3	-	52.8	0	0	62.6	0	52.1	0	63	63.4	65	N	-	-	10.6	Y	N	N
B2-3-3	1	14.7	B2-3	-	39.7	0	45.6	58.3	29.9	49.2	0	59	59.1	65	N	-	-	19.4	Y	N	N
B2-3-3	2	17.7	B2-3	-	40.5	0	46.2	58.3	30.5	50.4	0	59.2	59.2	65	N	-	-	18.7	Y	N	N
B2-3-3	3	20.7	B2-3	-	41.5	0	46.9	58.3	31.5	51.7	0	59.4	59.5	65	N	-	-	18.0	Y	N	N
B2-3-3	4	23.7	B2-3	-	42.6	0	47.4	58.4	32.7	53.3	0	59.8	59.9	65	N	-	-	17.3	Y	N	N
B2-3-3	5	26.7	B2-3	-	44	0	48.2	58.3	34.6	55	0	60.3	60.4	65	N	-	-	16.4	Y	N	N
B2-3-3	6	29.7	B2-3	-	45.3	0	49.2	58.3	37.3	56.6	0	60.9	61.0	65	N	-	-	15.7	Y	N	N
B2-3-3	7	32.7	B2-3	-	47.2	0	51.2	58.4	42.4	58.3	0	61.8	62.0	65	N	-	-	14.8	Y	N	N
B2-3-3	8	35.7	B2-3	-	49.2	0	53.6	58.4	45.4	60.1	0	63	63.1	65	N	-	-	13.9	Y	N	N
B2-6-1	1	17.7	B2-6	-	0	0	23.8	27.5	63.4	0	0	63.4	63.4	65	N	-	-	63.4	Y	N	N
B2-6-1	2	20.7	B2-6	-	0	0	23.8	27.4	63.5	0	0	63.5	63.5	65	N	-	-	63.5	Y	N	N
B2-6-1	3	23.7	B2-6	-	0	0	24	27.4	63.6	0	0	63.6	63.6	65	N	-	-	63.6	Y	N	N
B2-6-1	4	26.7	B2-6	-	0	0	24.5	27.4	63.7	0	0	63.7	63.7	65	N	-	-	63.7	Y	N	N
B2-6-1	5	29.7	B2-6	-	0	0	24.9	27.3	63.9	0	0	63.9	63.9	65	N	-	-	63.9	Y	N	N
B2-6-1	6	32.7	B2-6	-	0	0	25.4	27.4	63.9	0	0	63.9	63.9	65	N	-	-	63.9	Y	N	N
B2-6-1	7	35.7	B2-6	-	0	0	26.2	28.2	63.9	0	0	63.9	63.9	65	N	-	-	63.9	Y	N	N
B2-6-1	8	38.7	B2-6	-	0	0	27.2	29.3	63.8	0	0	63.8	63.8	65	N	-	-	63.8	Y	N	N
B2-6-2	1	17.7	B2-6	-	0	0	0	12.3	61.3	0	0	61.3	61.3	65	N	-	-	61.3	Y	N	N
B2-6-2	2	20.7	B2-6	-	0	0	0	12.3	61.3	0	0	61.3	61.3	65	N	-	-	61.3	Y	N	N
B2-6-2	3	23.7	B2-6	-	0	0	0	12.3	61.3	0	0	61.3	61.3	65	N	-	-	61.3	Y	N	N
B2-6-2	4	26.7	B2-6	-	0	0	0	12.3	61.3	0	0	61.3	61.3	65	N	-	-	61.3	Y	N	N
B2-6-2	5	29.7	B2-6	-	0	0	0	12.3	61.2	0	0	61.2	61.2	65	N	-	-	61.2	Y	N	N
B2-6-2	6	32.7	B2-6	-	0	0	0	12.3	61.2	0	0	61.2	61.2	65	N	-	-	61.2	Y	N	N
B2-6-2	7	35.7	B2-6	-	0	0	0	12.3	61.2	0	0	61.2	61.2	65	N	-	-	61.2	Y	N	N
B2-6-2	8	38.7	B2-6	-	0	0	0	12.2	61.2	0	0	61.2	61.2	65	N	-	-	61.2	Y	N	N
B2-6-3	1	17.7	B2-6	-	27.8	0	9.2	33.4	57.5	39.7	0	57.6	57.6	65	N	-	-	29.8	Y	N	N
B2-6-3	2	20.7	B2-6	-	28.4	0	10.1	33.9	57.5	39.7	0	57.6	57.6	65	N	-	-	29.2	Y	N	N
B2-6-3	3	23.7	B2-6	-	29.2	0	11	34.5	57.5	39.7	0	57.6	57.6	65	N	-	-	28.4	Y	N	N
B2-6-3	4	26.7	B2-6	-	30.3	0	12.1	35.2	57.5	39.8	0	57.6	57.6	65	N	-	-	27.3	Y	N	N
B2-6-3	5	29.7	B2-6	-	31.5	0	13	36.1	57.5	39.8	0	57.6	57.6	65	N	-	-	26.1	Y	N	N
B2-6-3	6	32.7	B2-6	-	33	0	13.8	37.1	57.5	39.8	0	57.6	57.6	65	N	-	-	24.6	Y	N	N
B2-6-3	7	35.7	B2-6	-	34.9	0	14.7	38.3	57.4	39.9	0	57.6	57.6	65	N	-	-	22.7	Y	N	N
B2-6-3	8	38.7	B2-6	-	37.1	0	15.6	39.6	57.4	40	0	57.5	57.6	65	N	-	-	20.5	Y	N	N
B2-10-1	1	51.2	B2-10	-	0	0	21.8	51.6	61.2	0	0	61.6	61.6	70	N	-	-	61.6	Y	N	N
B2-10-1	2	54.4	B2-10	-	0	0	23	57.3	65.5	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
B2-10-1	3	57.6	B2-10	-	0	0	24.3	57.7	65.6	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
B2-10-1	4	60.8	B2-10	-	0	0	25.8	57.6	65.3	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
B2-10-1	5	64	B2-10	-	0	0	27.6	57.4	65.1	0	0	65.8	65.8	70	N	-	-	65.8	Y	N	N
B2-10-1	6	67.2	B2-10	-	0	0	29.9	57.2	64.8	0	0	65.5	65.5	70	N	-	-	65.5	Y	N	N
B2-10-1	7	70.4	B2-10	-	0	0	31.9	57	64.6	0	0	65.3	65.3	70	N	-	-	65.3	Y	N	N
B2-10-1	8	73.6	B2-10	-	0	0	34	56.9	64.4	0	0	65.1	65.1	70	N	-	-	65.1	Y	N	N
B2-10-1	9	76.8	B2-10	-	0	0	35	56.8	64.2	0	0	64.9	64.9	70	N	-	-	64.9	Y	N	N
B2-10-1	10	80	B2-10	-	0	0	35.5	56.6	64	0	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
B2-10-1	11	83.2	B2-10	-	0	0	35.7	56.5	63.8	0	0	64.5	64.5	70	N	-	-	64.5	Y	N	N
B2-10-1	12	86.4	B2-10	-	0	0	35.9	56.4	63.6	0	0	64.4	64.4	70	N	-	-	64.4	Y	N	N
B2-10-1	13	89.6	B2-10	-	0	0	36	56.2	63.5	0	0	64.3	64.3	70	N	-	-	64.3	Y	N	N
B2-10-1	14	92.8	B2-10	-	0	0	35.9	56.1	63.3	0	0	64.1	64.1	70	N	-	-	64.1	Y	N	N
B2-10-1	15	96	B2-10	-	0	0	35.9	56	63.1	0	0	63.9	63.9	70	N	-	-	63.9	Y	N	N
B2-10-1	16	99.2	B2-10	-	0	0	35.9	55.9	63	0	0	63.8	63.8	70	N	-	-	63.8	Y	N	N
B2-10-2	1	51.2	B2-10	-	0	0	0	53.4	60.9	0	0	61.6	61.6	70	N	-	-	61.6	Y	N	N
B2-10-2	2	54.4	B2-10	-	0	0	0	59.7	65.9	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
B2-10-2	3	57.6	B2-10	-	0	0	0	60.2	66	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
B2-10-2	4	60.8	B2-10	-	0	0	0	60.1	65.7	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
B2-10-2	5	64	B2-10	-	0	0	0	60	65.5	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
B2-10-2	6	67.2	B2-10	-	0	0	0	59.8	65.3	0	0	66.4	66.4	70	N	-	-	66.4	Y	N	N
B2-10-2	7	70.4	B2-10	-	0	0	0	59.6	65	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
B2-10-2	8	73.6	B2-10	-	0	0	0	59.5	64.8	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
B2-10-2	9	76.8	B2-10	-	0	0	0	59.5	64.6	0	0	65.8	65.8	70	N	-	-	65.8	Y	N	N
B2-10-2	10	80	B2-10	-	0	0	0	59.5	64.4	0	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
B2-10-2	11	83.2	B2-10	-	0	0	0	59.4	64.3	0	0	65.6	65.6	70	N	-	-	65.6	Y	N	N
B2-10-2	12	86.4	B2-10	-	0	0	0	59.3	64.1	0	0	65.4	65.4	70	N	-	-	65.4	Y	N	N
B2-10-2	13	89.6	B2-10	-	0	0	0	59.2	63.9	0	0	65.2	65.2	70	N	-	-	65.2	Y	N	N
B2-10-2	14	92.8	B2-10	-	0	0	0	59.1	63.7	0	0	65	65.0	70	N	-	-	65.0	Y	N	N
B2-10-2	15	96	B2-10	-	0	0	0	59	63.6	0	0	64.9	64.9	70	N	-	-	64.9	Y	N	N
B2-10-2	16	99.2	B2-10	-	0	0	0	58.9	63.4	0	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
B2-10-3	1	51.2	B2-10	-	18	0	28.3	49.2	38.1	53.6	0	55	55.0	70	N	-	-	37.0	Y	N	N
B2-10-3	2	54.4	B2-10	-	20.1	0	30	54	40.1	55.4	0	57.9	57.9	70	N	-	-	37.8	Y	N	N
B2-10-3	3	57.6	B2-10	-	22.5	0	31.8	58.3	42.2	56.8	0	60.7	60.7	70	N	-	-	38.2	Y	N	N
B2-10-3	4	60.8	B2-10	-	25.3	0	33.8	61.8	44.3	57.7	0	63.3	63.3	70	N	-	-	38.0	Y	N	N
B2-10-3	5	64	B2-10	-	28.9	0	36.6	64	46.6	58.5	0	65.1	65.1	70	N	-	-	36.2	Y	N	N
B2-10-3	6	67.2	B2-10	-	33.2	0	39.2	65.5	49.2	59.3	0	66.5	66.5	70	N	-	-	33.3	Y	N	N
B2-10-3	7	70.4	B2-10	-	35.2	0	40.9	65.8	52	60.2	0	67	67.0	70	N	-	-	31.8	Y	N	N
B2-10-3	8	73.6	B2-10	-	35.8	0	42.1	65.8	54.5	61.3	0	67.4	67.4	70	N	-	-	31.6	Y	N	N
B2-10-3	9	76.8	B2-10	-	35.8	0	42.6	65.8	55.5	62	0	67.6	67.6	70	N	-	-	31.8	Y	N	N
B2-10-3	10	80	B2-10	-	35.8	0	43	65.7	56.1	62.7	0	67.8	67.8	70	N	-	-	32.0	Y	N	N
B2-10-3	11	83.2	B2-10	-	35.8	0	43.3	65.6	56.8	63.3	0	68	68.0	70	N	-	-	32.2	Y	N	N
B2-10-3	12	86.4	B2-10	-	35.8	0	43.5	65.5	57.8	64	0	68.3	68.3	70	N	-	-	32.5	Y	N	N
B2-10-3	13	89.6	B2-10	-	35.7	0	43.7	65.4	58.2	64.6	0	68.5	68.5	70	N	-	-	32.8	Y	N	N
B2-10-3	14	92.8	B2-10	-	35.7	0	43.7	65.3	58.5	65	0	68.6	68.6	70	N	-	-	32.9	Y	N	N
B2-10-3	15	96	B2-10	-	35.7	0	43.8	65.2	58.5	65.4	0	68.8	68.8	70	N	-	-	33.1	Y	N	N
B2-10-3	16	99.2	B2-10	-	35.6	0	43.9	65.1	58.5	65.9	0	68.9	68.9	70	N	-	-	33.3	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)														
B2-10-4	1	51.2	B2-10	-	20.4	0	20.1	34.7	34.3	44.2	0	45.1	45.1	70	N	-	-	24.7	Y	N	N
B2-10-4	2	54.4	B2-10	-	20.4	0	20.1	34.8	37.8	44.2	0	45.5	45.5	70	N	-	-	25.1	Y	N	N
B2-10-4	3	57.6	B2-10	-	21.1	0	20.1	35.2	42.7	44.7	0	47.1	47.1	70	N	-	-	26.0	Y	N	N
B2-10-4	4	60.8	B2-10	-	23	0	20.7	36.6	47.6	46.4	0	50.2	50.2	70	N	-	-	27.2	Y	N	N
B2-10-4	5	64	B2-10	-	25.6	0	21.8	38.5	49.8	49	0	52.6	52.6	70	N	-	-	27.0	Y	N	N
B2-10-4	6	67.2	B2-10	-	29.5	0	24.2	40.3	50.2	51.9	0	54.3	54.3	70	N	-	-	24.8	Y	N	N
B2-10-4	7	70.4	B2-10	-	34.9	0	29.2	42.4	50.2	54.7	0	56.2	56.2	70	N	-	-	21.3	Y	N	N
B2-10-4	8	73.6	B2-10	-	38.5	0	33.8	44.7	50.1	57.3	0	58.3	58.3	70	N	-	-	19.8	Y	N	N
B2-10-4	9	76.8	B2-10	-	42.9	0	40.1	47.9	50	60.5	0	61.1	61.2	70	N	-	-	18.3	Y	N	N
B2-10-4	10	80	B2-10	-	45.3	0	42.3	52.2	49.9	63.3	0	63.8	63.9	70	N	-	-	18.6	Y	N	N
B2-10-4	11	83.2	B2-10	-	45.5	0	42.5	55.6	49.8	65.3	0	65.8	65.9	70	N	-	-	20.4	Y	N	N
B2-10-4	12	86.4	B2-10	-	45.5	0	42.7	57	49.7	66.7	0	67.2	67.2	70	N	-	-	21.7	Y	N	N
B2-10-4	13	89.6	B2-10	-	45.6	0	42.9	58.1	49.5	67.6	0	68.1	68.1	70	N	-	-	22.5	Y	N	N
B2-10-4	14	92.8	B2-10	-	45.8	0	43	59.5	49.4	68.4	0	69	69.0	70	N	-	-	23.2	Y	N	N
B2-10-4	15	96	B2-10	-	46.2	0	43	60.6	49.3	68.9	0	69.6	69.6	70	N	-	-	23.4	Y	N	N
B2-10-4	16	99.2	B2-10	-	46.5	0	43.1	61	49.2	69.5	0	70.1	70.1	70	N	-	-	23.6	Y	N	N
B3-5a-1	1	14.7	B3-5a	-	31.5	0	47.3	65.2	66.6	63.9	0	70.1	70.1	70	N	-	-	38.6	Y	N	N
B3-5a-1	2	17.9	B3-5a	-	33.6	0	47.5	65.1	66.6	63.9	0	70.2	70.2	70	N	-	-	36.6	Y	N	N
B3-5a-1	3	21.1	B3-5a	-	35	0	47.8	65.1	66.6	64	0	70.1	70.1	70	N	-	-	35.1	Y	N	N
B3-5a-1	4	24.3	B3-5a	-	37	0	48.1	65	66.5	64.1	0	70.1	70.1	70	N	-	-	33.1	Y	N	N
B3-5a-1	5	27.5	B3-5a	-	38.1	0	48.3	64.9	66.5	64.2	0	70.1	70.1	70	N	-	-	32.0	Y	N	N
B3-5a-1	6	30.7	B3-5a	-	38.8	0	48.6	64.8	66.4	64.3	0	70.1	70.1	70	N	-	-	31.3	Y	N	N
B3-5a-1	7	33.9	B3-5a	-	39.2	0	49	64.7	66.3	64.4	0	70	70.1	70	N	-	-	30.9	Y	N	N
B3-5a-1	8	37.1	B3-5a	-	39.5	0	49.3	64.6	66.2	64.6	0	70	70.0	70	N	-	-	30.5	Y	N	N
B3-5a-1	9	40.3	B3-5a	-	39.7	0	49.8	64.5	66.1	64.7	0	70	70.0	70	N	-	-	30.3	Y	N	N
B3-5a-1	10	43.5	B3-5a	-	39.6	0	50.2	64.4	66	64.8	0	69.9	69.9	70	N	-	-	30.3	Y	N	N
B3-5a-1	11	46.7	B3-5a	-	39.7	0	50.5	64.3	65.9	65	0	69.9	69.9	70	N	-	-	30.2	Y	N	N
B3-5a-1	12	49.9	B3-5a	-	39.7	0	50.9	64.1	65.8	65.1	0	69.9	69.9	70	N	-	-	30.2	Y	N	N
B3-5a-1	13	53.1	B3-5a	-	39.7	0	51.1	64	65.7	65.3	0	69.9	69.9	70	N	-	-	30.2	Y	N	N
B3-5a-1	14	56.3	B3-5a	-	39.7	0	51.4	63.9	65.5	65.5	0	69.9	69.9	70	N	-	-	30.2	Y	N	N
B3-5a-1	15	59.5	B3-5a	-	39.7	0	51.6	63.8	65.4	65.6	0	69.9	69.9	70	N	-	-	30.2	Y	N	N
B3-5a-1	16	62.7	B3-5a	-	39.7	0	51.7	63.7	65.3	65.8	0	69.9	69.9	70	N	-	-	30.2	Y	N	N
B3-5a-1	17	65.9	B3-5a	-	39.7	0	51.9	63.7	65.2	66	0	69.9	69.9	70	N	-	-	30.2	Y	N	N
B3-5a-1	18	69.1	B3-5a	-	39.7	0	52	63.6	65	66.2	0	69.9	69.9	70	N	-	-	30.2	Y	N	N
B3-5a-2	1	14.7	B3-5a	-	14.3	0	60.4	68.7	61.6	43	0	70	70.0	70	N	-	-	55.7	Y	N	N
B3-5a-2	2	17.9	B3-5a	-	14.6	0	60.4	68.7	61.5	43.6	0	70	70.0	70	N	-	-	55.4	Y	N	N
B3-5a-2	3	21.1	B3-5a	-	14.9	0	60.4	68.6	61.5	44.3	0	69.9	69.9	70	N	-	-	55.0	Y	N	N
B3-5a-2	4	24.3	B3-5a	-	15.2	0	60.4	68.5	61.4	44.9	0	69.8	69.8	70	N	-	-	54.6	Y	N	N
B3-5a-2	5	27.5	B3-5a	-	15.4	0	60.4	68.4	61.4	45.6	0	69.7	69.7	70	N	-	-	54.3	Y	N	N
B3-5a-2	6	30.7	B3-5a	-	15.9	0	60.4	68.3	61.3	46.3	0	69.6	69.6	70	N	-	-	53.7	Y	N	N
B3-5a-2	7	33.9	B3-5a	-	16.2	0	60.4	68.1	61.2	46.9	0	69.5	69.5	70	N	-	-	53.3	Y	N	N
B3-5a-2	8	37.1	B3-5a	-	16.6	0	60.4	68	61.1	47.6	0	69.4	69.4	70	N	-	-	52.8	Y	N	N
B3-5a-2	9	40.3	B3-5a	-	17.1	0	60.4	67.8	61	48.3	0	69.3	69.3	70	N	-	-	52.2	Y	N	N
B3-5a-2	10	43.5	B3-5a	-	17.6	0	60.4	67.6	60.9	49	0	69.1	69.1	70	N	-	-	51.5	Y	N	N
B3-5a-2	11	46.7	B3-5a	-	18.1	0	60.5	67.5	60.8	49.8	0	69	69.0	70	N	-	-	50.9	Y	N	N
B3-5a-2	12	49.9	B3-5a	-	18.8	0	60.5	67.3	60.7	50.5	0	68.9	68.9	70	N	-	-	50.1	Y	N	N
B3-5a-2	13	53.1	B3-5a	-	19.4	0	60.4	67.1	60.6	51	0	68.8	68.8	70	N	-	-	49.4	Y	N	N
B3-5a-2	14	56.3	B3-5a	-	20.1	0	60.4	67	60.5	51.7	0	68.7	68.7	70	N	-	-	48.6	Y	N	N
B3-5a-2	15	59.5	B3-5a	-	20.9	0	60.4	66.8	60.3	52.3	0	68.6	68.6	70	N	-	-	47.7	Y	N	N
B3-5a-2	16	62.7	B3-5a	-	21.9	0	60.4	66.7	60.2	52.9	0	68.4	68.5	70	N	-	-	46.6	Y	N	N
B3-5a-2	17	65.9	B3-5a	-	22.8	0	60.4	66.5	60.1	53.6	0	68.4	68.4	70	N	-	-	45.6	Y	N	N
B3-5a-2	18	69.1	B3-5a	-	23.4	0	60.4	66.3	60	54	0	68.2	68.2	70	N	-	-	44.8	Y	N	N
B3-5a-3	1	14.7	B3-5a	-	10.5	0	60.4	68.5	56.4	33.1	0	69.4	69.4	70	N	-	-	58.9	Y	N	N
B3-5a-3	2	17.9	B3-5a	-	10.5	0	60.4	68.5	56.4	33.7	0	69.3	69.3	70	N	-	-	58.8	Y	N	N
B3-5a-3	3	21.1	B3-5a	-	10.5	0	60.4	68.4	56.4	34.2	0	69.3	69.3	70	N	-	-	58.8	Y	N	N
B3-5a-3	4	24.3	B3-5a	-	10.5	0	60.4	68.3	56.4	34.7	0	69.2	69.2	70	N	-	-	58.7	Y	N	N
B3-5a-3	5	27.5	B3-5a	-	10.5	0	60.4	68.2	56.4	35.3	0	69.1	69.1	70	N	-	-	58.6	Y	N	N
B3-5a-3	6	30.7	B3-5a	-	10.5	0	60.3	68.1	56.4	35.9	0	69	69.0	70	N	-	-	58.5	Y	N	N
B3-5a-3	7	33.9	B3-5a	-	10.5	0	60.3	67.9	56.4	36.5	0	68.9	68.9	70	N	-	-	58.4	Y	N	N
B3-5a-3	8	37.1	B3-5a	-	10.5	0	60.3	67.8	56.3	37	0	68.8	68.8	70	N	-	-	58.3	Y	N	N
B3-5a-3	9	40.3	B3-5a	-	10.4	0	60.3	67.7	56.3	37.7	0	68.7	68.7	70	N	-	-	58.3	Y	N	N
B3-5a-3	10	43.5	B3-5a	-	10.5	0	60.3	67.5	56.3	38.2	0	68.5	68.5	70	N	-	-	58.0	Y	N	N
B3-5a-3	11	46.7	B3-5a	-	10.5	0	60.3	67.4	56.2	38.9	0	68.4	68.4	70	N	-	-	57.9	Y	N	N
B3-5a-3	12	49.9	B3-5a	-	10.9	0	60.3	67.2	56.2	39.5	0	68.3	68.3	70	N	-	-	57.4	Y	N	N
B3-5a-3	13	53.1	B3-5a	-	11.4	0	60.2	67	56.1	40.1	0	68.2	68.2	70	N	-	-	56.8	Y	N	N
B3-5a-3	14	56.3	B3-5a	-	11.9	0	60.2	66.9	56	40.7	0	68	68.0	70	N	-	-	56.1	Y	N	N
B3-5a-3	15	59.5	B3-5a	-	12.5	0	60.2	66.7	56	41.4	0	67.9	67.9	70	N	-	-	55.4	Y	N	N
B3-5a-3	16	62.7	B3-5a	-	13.1	0	60.2	66.6	55.9	42	0	67.8	67.8	70	N	-	-	54.7	Y	N	N
B3-5a-3	17	65.9	B3-5a	-	13.6	0	60.2	66.5	55.9	42.6	0	67.7	67.7	70	N	-	-	54.1	Y	N	N
B3-5a-3	18	69.1	B3-5a	-	14.2	0	60.1	66.3	55.8	43.2	0	67.6	67.6	70	N	-	-	53.4	Y	N	N
B3-5a-4	1	14.7	B3-5a	-	1.8	0	53	68.2	55.6	31	0	68.6	68.6	70	N	-	-	66.8	Y	N	N
B3-5a-4	2	17.9	B3-5a	-	1.8	0	53	68.1	55.6	31.1	0	68.5	68.5	70	N	-	-	66.7	Y	N	N
B3-5a-4	3	21.1	B3-5a	-	1.8	0	53	68	55.6	31.3	0	68.4	68.4	70	N	-	-	66.6	Y	N	N
B3-5a-4	4	24.3	B3-5a	-	1.8	0	53	67.9	55.6	31.5	0	68.3	68.3	70	N	-	-	66.5	Y	N	N
B3-5a-4	5	27.5	B3-5a	-	1.8	0	53	67.7	55.6	31.7	0	68.1	68.1	70	N	-	-	66.3	Y	N	N
B3-5a-4	6	30.7	B3-5a	-	1.8	0	53	67.6	55.6	31.9	0	68	68.0	70	N	-	-	66.2	Y	N	N
B3-5a-4	7	33.9	B3-5a	-	1.8	0	52.9	67.4	55.6	32.1	0	67.8	67.8	70	N	-	-	66.0	Y	N	N
B3-5a-4	8	37.1	B3-5a	-	1.8	0	52.9	67.2	55.6	32.3	0	67.7	67.7	70	N	-	-	65.9	Y	N	N
B3-5a-4	9	40.3	B3-5a	-	1.8	0	52.9	67	55.6	32.8	0	67.5	67.5	70	N	-	-	65.7	Y	N	N
B3-5a-4	10	43.5	B3-5a	-	1.8	0	52.9	66.9	55.6	33.6	0	67.3	67.3	70	N	-	-	65.5	Y	N	N
B3-5a-4	11	46.7	B3-5a	-	1.8	0	52.8	66.7	55.6	34.4	0	67.2	67.2	70	N	-	-	65.4	Y	N	N
B3-5a-4	12	49.9	B3-5a	-	1.7	0	52.8	66.5	55.5	35.4	0	67	67.0	70	N	-	-	65.3	Y	N	N
B3-5a-4	13	53.1	B3-5a	-	2.7	0	52.8	66.3	55.5	36.4	0	66.9	66.9	70	N	-	-	64.2	Y	N	N
B3-5a-4	14	56.3	B3-5a	-	4.5	0	52.8	66.2	55.5	37.4	0	66.7	66.7	70	N	-	-	62.2	Y	N	N
B3-5a-4	15	59.5	B3-5a	-	6.7	0	52.9	66	55.5	38.6	0	66.6	66.6	70	N	-	-	59.9	Y	N	N
B3-5a-4	16	62.7	B3-5a	-	9.3	0	52.9	65.9	55.5	39.9	0	66.4	66.4	70	N	-	-	57.1	Y	N	N
B3-5a-4	17	65.9	B3-5a	-	12.3	0	52.9	65.7	55.5	41.2	0	66.3	66.3	70	N	-	-	54.0	Y	N	N
B3-5a-4	18	69.1	B3-5a	-	15.3	0	52.9	65.6	55.5	42.6	0	66.2	66.2	70	N	-	-	50.9	Y	N	N
B3-5a-5	1	14.7	B3-5a	-	12.3	0	66.2	71.4	54.1	0	0	72.6	72.6	70	Y	-	-	60.3	Y	Y	Y
B3-5a-5	2	17.9	B3-5a	-	12.3	0	66.2	71.2	54.4	0	0	72.4	72.4	70	Y	-	-	60.1	Y	Y	Y

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
									dB (A)							C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
B3-5a-5	3	21.1	B3-5a	-	12.3	0	66.2	71	55	0	0	72.3	72.3	70	Y	-	-	60.0	Y	Y	Y
B3-5a-5	4	24.3	B3-5a	-	12.3	0	66.2	70.7	56	0	0	72.2	72.2	70	Y	-	-	59.9	Y	Y	Y
B3-5a-5	5	27.5	B3-5a	-	12.2	0	66.3	70.5	56.9	0	0	72	72.0	70	Y	-	-	59.8	Y	Y	Y
B3-5a-5	6	30.7	B3-5a	-	12.2	0	66.5	70.2	57.2	0	0	71.9	71.9	70	Y	-	-	59.7	Y	Y	Y
B3-5a-5	7	33.9	B3-5a	-	12.3	0	66.7	70	57.3	0	0	71.8	71.8	70	Y	-	-	59.5	Y	Y	Y
B3-5a-5	8	37.1	B3-5a	-	12.4	0	66.8	69.7	57.3	0	0	71.7	71.7	70	Y	-	-	59.3	Y	Y	Y
B3-5a-5	9	40.3	B3-5a	-	12.5	0	67	69.4	57.3	0	0	71.6	71.6	70	Y	-	-	59.1	Y	Y	Y
B3-5a-5	10	43.5	B3-5a	-	12.7	0	67.1	69.2	57.2	0	0	71.5	71.5	70	Y	-	-	58.8	Y	Y	Y
B3-5a-5	11	46.7	B3-5a	-	13.1	0	67.2	69	57.2	0	0	71.4	71.4	70	Y	-	-	58.3	Y	Y	Y
B3-5a-5	12	49.9	B3-5a	-	13.4	0	67.3	68.8	57.2	0	0	71.3	71.3	70	Y	-	-	57.9	Y	Y	Y
B3-5a-5	13	53.1	B3-5a	-	14.1	0	67.4	68.6	57.1	0	0	71.2	71.2	70	Y	-	-	57.1	Y	Y	Y
B3-5a-5	14	56.3	B3-5a	-	14.9	0	67.4	68.3	57.1	0	0	71.1	71.1	70	Y	-	-	56.2	Y	Y	Y
B3-5a-5	15	59.5	B3-5a	-	15.7	0	67.4	68.1	57	0	0	71	71.0	70	Y	-	-	55.3	Y	Y	Y
B3-5a-5	16	62.7	B3-5a	-	16.7	0	67.4	67.9	57	0	0	70.9	70.9	70	Y	-	-	54.2	Y	Y	Y
B3-5a-5	17	65.9	B3-5a	-	17.7	0	67.4	67.7	56.9	0	0	70.8	70.8	70	Y	-	-	53.1	Y	Y	Y
B3-5a-5	18	69.1	B3-5a	-	18.6	0	67.4	67.6	56.9	0	0	70.7	70.7	70	Y	-	-	52.1	Y	Y	Y
B3-5a-6	1	14.7	B3-5a	-	13.9	0	66.8	71.1	51.9	0	0	72.5	72.5	70	Y	-	-	58.6	Y	Y	Y
B3-5a-6	2	17.9	B3-5a	-	13.9	0	66.8	70.9	52.4	0	0	72.4	72.4	70	Y	-	-	58.5	Y	Y	Y
B3-5a-6	3	21.1	B3-5a	-	13.9	0	66.9	70.7	53.7	0	0	72.3	72.3	70	Y	-	-	58.4	Y	Y	Y
B3-5a-6	4	24.3	B3-5a	-	13.9	0	67	70.5	55.4	0	0	72.2	72.2	70	Y	-	-	58.3	Y	Y	Y
B3-5a-6	5	27.5	B3-5a	-	13.9	0	67.2	70.3	56.4	0	0	72.1	72.1	70	Y	-	-	58.2	Y	Y	Y
B3-5a-6	6	30.7	B3-5a	-	13.9	0	67.4	70.1	56.7	0	0	72.1	72.1	70	Y	-	-	58.2	Y	Y	Y
B3-5a-6	7	33.9	B3-5a	-	13.9	0	67.6	69.8	56.8	0	0	72	72.0	70	Y	-	-	58.1	Y	Y	Y
B3-5a-6	8	37.1	B3-5a	-	14	0	67.8	69.6	56.8	0	0	71.9	71.9	70	Y	-	-	57.9	Y	Y	Y
B3-5a-6	9	40.3	B3-5a	-	14.1	0	67.9	69.3	56.7	0	0	71.8	71.8	70	Y	-	-	57.7	Y	Y	Y
B3-5a-6	10	43.5	B3-5a	-	14.2	0	68.1	69.1	56.7	0	0	71.8	71.8	70	Y	-	-	57.6	Y	Y	Y
B3-5a-6	11	46.7	B3-5a	-	14.4	0	68.2	68.9	56.6	0	0	71.7	71.7	70	Y	-	-	57.3	Y	Y	Y
B3-5a-6	12	49.9	B3-5a	-	14.8	0	68.2	68.7	56.6	0	0	71.6	71.6	70	Y	-	-	56.8	Y	Y	Y
B3-5a-6	13	53.1	B3-5a	-	15.4	0	68.3	68.5	56.5	0	0	71.5	71.5	70	Y	-	-	56.1	Y	Y	Y
B3-5a-6	14	56.3	B3-5a	-	15.9	0	68.3	68.3	56.5	0	0	71.5	71.5	70	Y	-	-	55.6	Y	Y	Y
B3-5a-6	15	59.5	B3-5a	-	16.7	0	68.3	68.1	56.4	0	0	71.3	71.3	70	Y	-	-	54.6	Y	Y	Y
B3-5a-6	16	62.7	B3-5a	-	17.6	0	68.3	67.9	56.4	0	0	71.3	71.3	70	Y	-	-	53.7	Y	Y	Y
B3-5a-6	17	65.9	B3-5a	-	18.5	0	68.3	67.7	56.3	0	0	71.1	71.1	70	Y	-	-	52.6	Y	Y	Y
B3-5a-6	18	69.1	B3-5a	-	19.5	0	68.2	67.5	56.3	0	0	71	71.0	70	Y	-	-	51.5	Y	Y	Y
B3-5a-7	1	14.7	B3-5a	-	13.9	0	60.9	67.2	45.6	0	0	68.1	68.1	70	N	-	-	54.2	Y	N	N
B3-5a-7	2	17.9	B3-5a	-	13.9	0	62	67.1	49	0	0	68.4	68.4	70	N	-	-	54.5	Y	N	N
B3-5a-7	3	21.1	B3-5a	-	13.9	0	64.7	67.1	54	0	0	69.2	69.2	70	N	-	-	55.3	Y	N	N
B3-5a-7	4	24.3	B3-5a	-	13.9	0	66.8	67	56.8	0	0	70.1	70.1	70	N	-	-	56.2	Y	N	N
B3-5a-7	5	27.5	B3-5a	-	13.9	0	68	67	57.6	0	0	70.7	70.7	70	Y	-	-	56.8	Y	Y	Y
B3-5a-7	6	30.7	B3-5a	-	13.9	0	68.6	66.9	57.7	0	0	71.1	71.1	70	Y	-	-	57.2	Y	Y	Y
B3-5a-7	7	33.9	B3-5a	-	13.9	0	69	66.9	57.7	0	0	71.3	71.3	70	Y	-	-	57.4	Y	Y	Y
B3-5a-7	8	37.1	B3-5a	-	13.8	0	69.4	66.9	57.6	0	0	71.5	71.5	70	Y	-	-	57.7	Y	Y	Y
B3-5a-7	9	40.3	B3-5a	-	13.8	0	69.7	66.8	57.6	0	0	71.6	71.6	70	Y	-	-	57.8	Y	Y	Y
B3-5a-7	10	43.5	B3-5a	-	13.8	0	69.9	66.7	57.5	0	0	71.8	71.8	70	Y	-	-	58.0	Y	Y	Y
B3-5a-7	11	46.7	B3-5a	-	13.8	0	70	66.7	57.4	0	0	71.8	71.8	70	Y	-	-	58.0	Y	Y	Y
B3-5a-7	12	49.9	B3-5a	-	13.7	0	70	66.6	57.4	0	0	71.8	71.8	70	Y	-	-	58.1	Y	Y	Y
B3-5a-7	13	53.1	B3-5a	-	13.7	0	70	66.5	57.3	0	0	71.8	71.8	70	Y	-	-	58.1	Y	Y	Y
B3-5a-7	14	56.3	B3-5a	-	13.8	0	69.9	66.4	57.2	0	0	71.7	71.7	70	Y	-	-	57.9	Y	Y	Y
B3-5a-7	15	59.5	B3-5a	-	14.3	0	69.9	66.3	57.2	0	0	71.6	71.6	70	Y	-	-	57.3	Y	Y	Y
B3-5a-7	16	62.7	B3-5a	-	14.8	0	69.8	66.2	57.1	0	0	71.5	71.5	70	Y	-	-	56.7	Y	Y	Y
B3-5a-7	17	65.9	B3-5a	-	15.4	0	69.7	66.1	57	0	0	71.4	71.4	70	Y	-	-	56.0	Y	Y	Y
B3-5a-7	18	69.1	B3-5a	-	16	0	69.6	66	56.9	0	0	71.3	71.3	70	Y	-	-	55.3	Y	Y	Y
B3-5a-8	1	14.7	B3-5a	-	14.1	0	64.8	66.8	46.7	0	0	68.9	68.9	70	N	-	-	54.8	Y	N	N
B3-5a-8	2	17.9	B3-5a	-	14.1	0	65.6	66.8	50.1	0	0	69.3	69.3	70	N	-	-	55.2	Y	N	N
B3-5a-8	3	21.1	B3-5a	-	14.1	0	67.6	66.7	55.4	0	0	70.3	70.3	70	N	-	-	56.2	Y	N	N
B3-5a-8	4	24.3	B3-5a	-	14.1	0	69	66.7	57.8	0	0	71.2	71.2	70	Y	-	-	57.1	Y	Y	Y
B3-5a-8	5	27.5	B3-5a	-	14.1	0	69.8	66.6	58.2	0	0	71.7	71.7	70	Y	-	-	57.6	Y	Y	Y
B3-5a-8	6	30.7	B3-5a	-	14.1	0	70.3	66.7	58.2	0	0	72.1	72.1	70	Y	-	-	58.0	Y	Y	Y
B3-5a-8	7	33.9	B3-5a	-	14	0	70.7	66.7	58.2	0	0	72.4	72.4	70	Y	-	-	58.4	Y	Y	Y
B3-5a-8	8	37.1	B3-5a	-	14	0	71.1	66.7	58.1	0	0	72.6	72.6	70	Y	-	-	58.6	Y	Y	Y
B3-5a-8	9	40.3	B3-5a	-	14	0	71.3	66.7	58.1	0	0	72.8	72.8	70	Y	-	-	58.8	Y	Y	Y
B3-5a-8	10	43.5	B3-5a	-	14	0	71.4	66.7	58	0	0	72.8	72.8	70	Y	-	-	58.8	Y	Y	Y
B3-5a-8	11	46.7	B3-5a	-	14	0	71.4	66.7	57.9	0	0	72.8	72.8	70	Y	-	-	58.8	Y	Y	Y
B3-5a-8	12	49.9	B3-5a	-	13.9	0	71.3	66.6	57.8	0	0	72.7	72.7	70	Y	-	-	58.8	Y	Y	Y
B3-5a-8	13	53.1	B3-5a	-	13.9	0	71.2	66.6	57.8	0	0	72.6	72.6	70	Y	-	-	58.7	Y	Y	Y
B3-5a-8	14	56.3	B3-5a	-	14	0	71.1	66.5	57.7	0	0	72.5	72.5	70	Y	-	-	58.5	Y	Y	Y
B3-5a-8	15	59.5	B3-5a	-	14.3	0	71	66.4	57.6	0	0	72.4	72.4	70	Y	-	-	58.1	Y	Y	Y
B3-5a-8	16	62.7	B3-5a	-	14.8	0	70.9	66.3	57.5	0	0	72.3	72.3	70	Y	-	-	57.5	Y	Y	Y
B3-5a-8	17	65.9	B3-5a	-	15.4	0	70.7	66.2	57.5	0	0	72.2	72.2	70	Y	-	-	56.8	Y	Y	Y
B3-5a-8	18	69.1	B3-5a	-	16	0	70.6	66.1	57.4	0	0	72.1	72.1	70	Y	-	-	56.1	Y	Y	Y
B3-5a-9	1	14.7	B3-5a	-	34.4	0	71.4	61.3	55.8	0	0	71.9	71.9	70	Y	-	-	37.5	Y	Y	Y
B3-5a-9	2	17.9	B3-5a	-	36.8	0	71.5	61.3	56.1	0	0	72	72.0	70	Y	-	-	35.2	Y	Y	Y
B3-5a-9	3	21.1	B3-5a	-	38.8	0	71.9	61.3	56.9	0	0	72.4	72.4	70	Y	-	-	33.6	Y	Y	Y
B3-5a-9	4	24.3	B3-5a	-	39.7	0	72.4	61.3	57.8	0	0	72.9	72.9	70	Y	-	-	33.2	Y	Y	Y
B3-5a-9	5	27.5	B3-5a	-	40.9	0	72.7	61.4	58.2	0	0	73.2	73.2	70	Y	-	-	32.3	Y	Y	Y
B3-5a-9	6	30.7	B3-5a	-	41.8	0	72.9	61.4	58.3	0	0	73.4	73.4	70	Y	-	-	31.6	Y	Y	Y
B3-5a-9	7	33.9	B3-5a	-	42.5	0	73	61.7	58.2	0	0	73.5	73.5	70	Y	-	-	31.0	Y	Y	Y
B3-5a-9	8	37.1	B3-5a	-	43	0	73.1	61.9	58.2	0	0	73.6	73.6	70	Y	-	-	30.6	Y	Y	Y
B3-5a-9	9	40.3	B3-5a	-	43.4	0	73.2	62.1	58.1	0	0	73.7	73.7	70	Y	-	-	30.3	Y	Y	Y
B3-5a-9	10	43.5	B3-5a	-	43.5	0	73.3	62.2	58.1	0	0	73.7	73.7	70	Y	-	-	30.2	Y	Y	Y
B3-5a-9	11	46.7	B3-5a	-	43.6	0	73.3	62.3	58	0	0	73.8	73.8	70	Y	-	-	30.2	Y	Y	Y
B3-5a-9	12	49.9	B3-5a	-	43.6	0	73.3	62.4	57.9	0	0	73.8	73.8	70	Y	-	-	30.2	Y	Y	Y
B3-5a-9	13	53.1	B3-5a	-	43.6	0	73.3	62.5	57.9	0	0	73.8	73.8	70	Y	-	-	30.2	Y	Y	Y
B3-5a-9	14	56.3	B3-5a	-	43.7	0	73.2	62.5	57.8	0	0	73.7	73.7	70	Y	-	-	30.0	Y	Y	Y
B3-5a-9	15	59.5	B3-5a	-	43.6	0	73.1	62.6	57.8	0	0	73.6	73.6	70	Y	-	-	30.0	Y	Y	Y
B3-5a-9	16	62.7	B3-5a	-	43.6	0	73	62.5	57.7	0	0	73.5	73.5	70	Y	-	-	29.9	Y	Y	Y
B3-5a-9	17	65.9	B3-5a	-	43.6	0	72.9	62.5	57.6	0	0	73.4	73.4	70	Y	-	-	29.8	Y	Y	Y
B3-5a-9	18	69.1	B3-5a	-	43.6	0	72.8	62.5	57.5	0	0	73.3	73.3	70	Y	-	-	29.7	Y	Y	Y
B3-5a-10	1	14.7	B3-5a	-	43.2	0	72.2	52.6	53.1	0	0	72.3	72.3	70	Y	-	-	29.1	Y	Y	Y
B3-5a-10	2	17.9	B3-5a	-	43.6	0	72.2	52.6	53.2	0	0	72.3	72.3	70	Y	-	-	28.7	Y	Y	Y

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)									Check Project Impact Significance		Check Direct Mitigation			
B3-5a-10	3	21.1	B3-5a	-	44.1	0	72.3	52.6	53.4	0	0	72.4	72.4	70	Y	-	-	28.3	Y	Y	Y
B3-5a-10	4	24.3	B3-5a	-	44.4	0	72.5	52.6	53.9	0	0	72.6	72.6	70	Y	-	-	28.2	Y	Y	Y
B3-5a-10	5	27.5	B3-5a	-	44.8	0	72.6	52.6	54.7	0	0	72.7	72.7	70	Y	-	-	27.9	Y	Y	Y
B3-5a-10	6	30.7	B3-5a	-	45.3	0	72.6	52.7	55.3	0	0	72.7	72.7	70	Y	-	-	27.4	Y	Y	Y
B3-5a-10	7	33.9	B3-5a	-	45.5	0	72.6	52.7	55.5	0	0	72.8	72.8	70	Y	-	-	27.3	Y	Y	Y
B3-5a-10	8	37.1	B3-5a	-	45.8	0	72.6	52.8	55.6	0	0	72.7	72.7	70	Y	-	-	26.9	Y	Y	Y
B3-5a-10	9	40.3	B3-5a	-	45.9	0	72.6	52.9	55.6	0	0	72.7	72.7	70	Y	-	-	26.8	Y	Y	Y
B3-5a-10	10	43.5	B3-5a	-	46	0	72.5	53.2	55.6	0	0	72.7	72.7	70	Y	-	-	26.7	Y	Y	Y
B3-5a-10	11	46.7	B3-5a	-	46.1	0	72.6	53.4	55.6	0	0	72.7	72.7	70	Y	-	-	26.6	Y	Y	Y
B3-5a-10	12	49.9	B3-5a	-	46.2	0	72.6	53.8	55.6	0	0	72.7	72.7	70	Y	-	-	26.5	Y	Y	Y
B3-5a-10	13	53.1	B3-5a	-	46.2	0	72.7	54	55.5	0	0	72.9	72.9	70	Y	-	-	26.7	Y	Y	Y
B3-5a-10	14	56.3	B3-5a	-	46.3	0	72.8	54.2	55.5	0	0	72.9	72.9	70	Y	-	-	26.6	Y	Y	Y
B3-5a-10	15	59.5	B3-5a	-	46.3	0	72.8	54.4	55.5	0	0	72.9	72.9	70	Y	-	-	26.6	Y	Y	Y
B3-5a-10	16	62.7	B3-5a	-	46.4	0	72.7	54.6	55.4	0	0	72.9	72.9	70	Y	-	-	26.5	Y	Y	Y
B3-5a-10	17	65.9	B3-5a	-	46.4	0	72.7	54.7	55.4	0	0	72.8	72.8	70	Y	-	-	26.4	Y	Y	Y
B3-5a-10	18	69.1	B3-5a	-	46.5	0	72.6	54.8	55.4	0	0	72.7	72.8	70	Y	-	-	26.3	Y	Y	Y
B3-5a-11	1	14.7	B3-5a	-	43.8	0	70.6	40.8	41.6	0	0	70.6	70.6	70	Y	-	-	26.8	Y	Y	Y
B3-5a-11	2	17.9	B3-5a	-	43.8	0	70.7	40.9	42.7	0	0	70.7	70.7	70	Y	-	-	26.9	Y	Y	Y
B3-5a-11	3	21.1	B3-5a	-	43.8	0	70.8	41	44.5	0	0	70.8	70.8	70	Y	-	-	27.0	Y	Y	Y
B3-5a-11	4	24.3	B3-5a	-	43.9	0	70.9	41	46.6	0	0	70.9	70.9	70	Y	-	-	27.0	Y	Y	Y
B3-5a-11	5	27.5	B3-5a	-	44	0	71	41.1	48.8	0	0	71	71.0	70	Y	-	-	27.0	Y	Y	Y
B3-5a-11	6	30.7	B3-5a	-	44.3	0	71	41.2	50.6	0	0	71	71.0	70	Y	-	-	26.7	Y	Y	Y
B3-5a-11	7	33.9	B3-5a	-	44.4	0	71	41.3	51.5	0	0	71	71.0	70	Y	-	-	26.6	Y	Y	Y
B3-5a-11	8	37.1	B3-5a	-	44.5	0	70.9	41.5	51.9	0	0	71	71.0	70	Y	-	-	26.5	Y	Y	Y
B3-5a-11	9	40.3	B3-5a	-	44.5	0	70.9	41.6	52	0	0	71	71.0	70	Y	-	-	26.5	Y	Y	Y
B3-5a-11	10	43.5	B3-5a	-	44.5	0	70.9	41.9	52.1	0	0	70.9	70.9	70	Y	-	-	26.4	Y	Y	Y
B3-5a-11	11	46.7	B3-5a	-	44.5	0	70.9	42.2	52	0	0	70.9	70.9	70	Y	-	-	26.4	Y	Y	Y
B3-5a-11	12	49.9	B3-5a	-	44.5	0	70.9	42.4	52	0	0	70.9	70.9	70	Y	-	-	26.4	Y	Y	Y
B3-5a-11	13	53.1	B3-5a	-	44.5	0	70.9	42.6	52	0	0	71	71.0	70	Y	-	-	26.5	Y	Y	Y
B3-5a-11	14	56.3	B3-5a	-	44.5	0	70.9	42.7	52	0	0	71	71.0	70	Y	-	-	26.5	Y	Y	Y
B3-5a-11	15	59.5	B3-5a	-	44.5	0	71	42.7	52	0	0	71.1	71.1	70	Y	-	-	26.6	Y	Y	Y
B3-5a-11	16	62.7	B3-5a	-	44.6	0	71.1	42.8	51.9	0	0	71.2	71.2	70	Y	-	-	26.6	Y	Y	Y
B3-5a-11	17	65.9	B3-5a	-	44.6	0	71.1	42.8	51.9	0	0	71.1	71.2	70	Y	-	-	26.6	Y	Y	Y
B3-5a-11	18	69.1	B3-5a	-	44.7	0	71.1	42.9	51.9	0	0	71.1	71.1	70	Y	-	-	26.4	Y	Y	Y
B3-5a-12	1	14.7	B3-5a	-	44	0	70.2	49	51.9	47.3	0	70.3	70.3	70	N	-	-	26.3	Y	N	N
B3-5a-12	2	17.9	B3-5a	-	44	0	70.3	49	51.9	47.5	0	70.4	70.4	70	N	-	-	26.4	Y	N	N
B3-5a-12	3	21.1	B3-5a	-	44	0	70.3	49.1	51.9	47.8	0	70.4	70.5	70	Y	-	-	26.5	Y	N	Y
B3-5a-12	4	24.3	B3-5a	-	44	0	70.5	49.1	51.9	48	0	70.6	70.6	70	Y	-	-	26.6	Y	Y	Y
B3-5a-12	5	27.5	B3-5a	-	44.1	0	70.6	49.1	51.9	48.3	0	70.7	70.7	70	Y	-	-	26.6	Y	Y	Y
B3-5a-12	6	30.7	B3-5a	-	44.3	0	70.6	49.1	52	48.6	0	70.7	70.7	70	Y	-	-	26.4	Y	Y	Y
B3-5a-12	7	33.9	B3-5a	-	44.6	0	70.6	49.2	52	48.8	0	70.7	70.7	70	Y	-	-	26.1	Y	Y	Y
B3-5a-12	8	37.1	B3-5a	-	44.6	0	70.6	49.3	52	49.2	0	70.7	70.7	70	Y	-	-	26.1	Y	Y	Y
B3-5a-12	9	40.3	B3-5a	-	44.6	0	70.6	49.3	52	49.6	0	70.7	70.7	70	Y	-	-	26.1	Y	Y	Y
B3-5a-12	10	43.5	B3-5a	-	44.7	0	70.5	49.4	52.1	50	0	70.7	70.7	70	Y	-	-	26.0	Y	Y	Y
B3-5a-12	11	46.7	B3-5a	-	44.8	0	70.5	49.5	52.2	50.5	0	70.6	70.7	70	Y	-	-	25.9	Y	Y	Y
B3-5a-12	12	49.9	B3-5a	-	44.9	0	70.5	49.6	52.4	51.1	0	70.6	70.7	70	Y	-	-	25.8	Y	Y	Y
B3-5a-12	13	53.1	B3-5a	-	44.9	0	70.5	49.8	52.5	51.8	0	70.7	70.7	70	Y	-	-	25.8	Y	Y	Y
B3-5a-12	14	56.3	B3-5a	-	45	0	70.5	50	52.6	52.9	0	70.7	70.7	70	Y	-	-	25.7	Y	Y	Y
B3-5a-12	15	59.5	B3-5a	-	45	0	70.5	50.3	52.8	54.2	0	70.7	70.8	70	Y	-	-	25.8	Y	Y	Y
B3-5a-12	16	62.7	B3-5a	-	45	0	70.6	50.7	53.1	55.7	0	70.8	70.9	70	Y	-	-	25.9	Y	Y	Y
B3-5a-12	17	65.9	B3-5a	-	45	0	70.6	51.1	53.4	56.7	0	70.9	70.9	70	Y	-	-	25.9	Y	Y	Y
B3-5a-12	18	69.1	B3-5a	-	45.1	0	70.6	51.6	53.7	57.3	0	70.9	70.9	70	Y	-	-	25.8	Y	Y	Y
B3-5a-13	1	14.7	B3-5a	-	39.5	0	67	49.6	58.1	57.5	0	68	68.0	70	N	-	-	28.5	Y	N	N
B3-5a-13	2	17.9	B3-5a	-	39.6	0	67.1	49.7	58.2	57.6	0	68.1	68.1	70	N	-	-	28.5	Y	N	N
B3-5a-13	3	21.1	B3-5a	-	39.8	0	67.2	49.7	58.2	57.7	0	68.2	68.2	70	N	-	-	28.4	Y	N	N
B3-5a-13	4	24.3	B3-5a	-	40	0	67.2	49.7	58.1	57.8	0	68.2	68.2	70	N	-	-	28.2	Y	N	N
B3-5a-13	5	27.5	B3-5a	-	40.2	0	67.4	49.8	58.1	57.8	0	68.3	68.3	70	N	-	-	28.1	Y	N	N
B3-5a-13	6	30.7	B3-5a	-	40.3	0	67.4	49.8	58	57.9	0	68.4	68.4	70	N	-	-	28.1	Y	N	N
B3-5a-13	7	33.9	B3-5a	-	40.4	0	67.5	49.8	57.9	58	0	68.5	68.5	70	N	-	-	28.1	Y	N	N
B3-5a-13	8	37.1	B3-5a	-	40.5	0	67.6	49.9	57.8	58.1	0	68.5	68.5	70	N	-	-	28.0	Y	N	N
B3-5a-13	9	40.3	B3-5a	-	40.5	0	67.7	50	57.7	58.2	0	68.6	68.6	70	N	-	-	28.1	Y	N	N
B3-5a-13	10	43.5	B3-5a	-	40.6	0	67.7	50.1	57.5	58.3	0	68.6	68.6	70	N	-	-	28.0	Y	N	N
B3-5a-13	11	46.7	B3-5a	-	40.6	0	67.8	50.3	57.4	58.6	0	68.7	68.7	70	N	-	-	28.1	Y	N	N
B3-5a-13	12	49.9	B3-5a	-	40.7	0	67.8	50.6	57.3	58.9	0	68.7	68.7	70	N	-	-	28.0	Y	N	N
B3-5a-13	13	53.1	B3-5a	-	40.8	0	67.8	51.2	57.2	59.7	0	68.8	68.8	70	N	-	-	28.0	Y	N	N
B3-5a-13	14	56.3	B3-5a	-	41	0	67.8	52	57.2	60.4	0	68.9	68.9	70	N	-	-	27.9	Y	N	N
B3-5a-13	15	59.5	B3-5a	-	41.2	0	67.9	52.8	57.1	61.2	0	69.1	69.1	70	N	-	-	27.9	Y	N	N
B3-5a-13	16	62.7	B3-5a	-	41.3	0	67.9	53.4	57.1	61.7	0	69.2	69.2	70	N	-	-	27.9	Y	N	N
B3-5a-13	17	65.9	B3-5a	-	41.4	0	67.9	53.9	57.1	61.9	0	69.3	69.3	70	N	-	-	27.9	Y	N	N
B3-5a-13	18	69.1	B3-5a	-	41.6	0	67.9	54.3	57.2	62	0	69.3	69.3	70	N	-	-	27.7	Y	N	N
B3-5a-14	1	14.7	B3-5a	-	37.3	0	63.9	51.1	61.2	63.3	0	67.8	67.8	70	N	-	-	30.5	Y	N	N
B3-5a-14	2	17.9	B3-5a	-	37.3	0	64	51.2	61.2	63.3	0	67.9	67.9	70	N	-	-	30.6	Y	N	N
B3-5a-14	3	21.1	B3-5a	-	37.4	0	64.1	51.2	61.3	63.4	0	68	68.0	70	N	-	-	30.6	Y	N	N
B3-5a-14	4	24.3	B3-5a	-	37.4	0	64.1	51.2	61.4	63.5	0	68	68.0	70	N	-	-	30.6	Y	N	N
B3-5a-14	5	27.5	B3-5a	-	37.5	0	64.1	51.2	61.4	63.5	0	68	68.0	70	N	-	-	30.5	Y	N	N
B3-5a-14	6	30.7	B3-5a	-	37.5	0	64.1	51.2	61.5	63.6	0	68.1	68.1	70	N	-	-	30.6	Y	N	N
B3-5a-14	7	33.9	B3-5a	-	37.5	0	64.2	51.3	61.5	63.6	0	68.1	68.1	70	N	-	-	30.6	Y	N	N
B3-5a-14	8	37.1	B3-5a	-	37.5	0	64.3	51.3	61.5	63.7	0	68.2	68.2	70	N	-	-	30.7	Y	N	N
B3-5a-14	9	40.3	B3-5a	-	37.5	0	64.4	51.4	61.5	63.8	0	68.3	68.3	70	N	-	-	30.8	Y	N	N
B3-5a-14	10	43.5	B3-5a	-	37.5	0	64.5	51.5	61.5	63.9	0	68.3	68.3	70	N	-	-	30.8	Y	N	N
B3-5a-14	11	46.7	B3-5a	-	37.5	0	64.6	51.7	61.4	64	0	68.4	68.4	70	N	-	-	30.9	Y	N	N
B3-5a-14	12	49.9	B3-5a	-	37.5	0	64.7	52.1	61.4	64.1	0	68.5	68.5	70	N	-	-	31.0	Y	N	N
B3-5a-14	13	53.1	B3-5a	-	37.5	0	64.7	52.7	61.4	64.2	0	68.5	68.5	70	N	-	-	31.0	Y	N	N
B3-5a-14	14	56.3	B3-5a	-	37.5	0	64.7	53.6	61.4	64.3	0	68.6	68.6	70	N	-	-	31.1	Y	N	N
B3-5a-14	15	59.5	B3-5a	-	37.4	0	64.8	54.4	61.3	64.5	0	68.7	68.7	70	N	-	-	31.3	Y	N	N
B3-5a-14	16	62.7	B3-5a	-	37.4	0	64.9	54.9	61.4	64.7	0	68.9	68.9	70	N	-	-	31.5	Y	N	N
B3-5a-14	17	65.9	B3-5a	-	37.4	0	65	55.4	61.4	64.8	0	69	69.0	70	N	-	-	31.6	Y	N	N
B3-5a-14	18	69.1	B3-5a	-	37.4	0	65	55.6	61.4	65	0	69.1	69.1	70	N	-	-	31.7	Y	N	N
B3-5a-15	1	14.7	B3-5a	-	31.8	0	62.1	55.8	64.9	64.5	0	69	69.0	70	N	-	-	37.2	Y	N	N
B3-5a-15	2	17.9	B3-5a	-	34	0	62.2	55.8	65	64.6	0	69	69.0	70	N	-	-	35.0	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance: C - A dB(A) [D]	Check Project Impact Significance: D ≥ 1dB(A)	Check Direct Mitigation: New Road Contribution dB(A) [E]	Check Direct Mitigation: New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	Check Direct Mitigation: New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)												
B3-5a-15	3	21.1	B3-5a	-	35.3	0	62.2	55.8	65	64.6	0	69.1	69.1	70	N	-	-	33.8	Y	N	N
B3-5a-15	4	24.3	B3-5a	-	37.2	0	62.2	55.8	65	64.7	0	69.1	69.1	70	N	-	-	31.9	Y	N	N
B3-5a-15	5	27.5	B3-5a	-	38.2	0	62.3	55.8	65	64.8	0	69.2	69.2	70	N	-	-	31.0	Y	N	N
B3-5a-15	6	30.7	B3-5a	-	38.9	0	62.3	55.8	65	64.9	0	69.2	69.2	70	N	-	-	30.3	Y	N	N
B3-5a-15	7	33.9	B3-5a	-	39.3	0	62.4	55.8	65	65	0	69.3	69.3	70	N	-	-	30.0	Y	N	N
B3-5a-15	8	37.1	B3-5a	-	39.6	0	62.5	55.8	64.9	65.1	0	69.3	69.3	70	N	-	-	29.7	Y	N	N
B3-5a-15	9	40.3	B3-5a	-	39.8	0	62.6	55.8	64.9	65.2	0	69.4	69.4	70	N	-	-	29.6	Y	N	N
B3-5a-15	10	43.5	B3-5a	-	39.9	0	62.6	55.8	64.8	65.4	0	69.4	69.4	70	N	-	-	29.5	Y	N	N
B3-5a-15	11	46.7	B3-5a	-	40	0	62.7	55.9	64.8	65.5	0	69.4	69.4	70	N	-	-	29.4	Y	N	N
B3-5a-15	12	49.9	B3-5a	-	40	0	62.8	56	64.7	65.6	0	69.5	69.5	70	N	-	-	29.5	Y	N	N
B3-5a-15	13	53.1	B3-5a	-	40.1	0	62.9	56.2	64.6	65.8	0	69.6	69.6	70	N	-	-	29.5	Y	N	N
B3-5a-15	14	56.3	B3-5a	-	40.3	0	63	56.3	64.6	66	0	69.7	69.7	70	N	-	-	29.4	Y	N	N
B3-5a-15	15	59.5	B3-5a	-	40.5	0	63.1	56.4	64.5	66.1	0	69.7	69.7	70	N	-	-	29.2	Y	N	N
B3-5a-15	16	62.7	B3-5a	-	40.7	0	63.2	56.4	64.4	66.3	0	69.8	69.8	70	N	-	-	29.1	Y	N	N
B3-5a-15	17	65.9	B3-5a	-	41	0	63.4	56.5	64.3	66.6	0	69.9	69.9	70	N	-	-	28.9	Y	N	N
B3-5a-15	18	69.1	B3-5a	-	41.2	0	63.5	56.5	64.2	66.8	0	70	70.0	70	N	-	-	28.8	Y	N	N
B3-8-1	1	14.7	B3-8	-	46.9	0	60.9	15.6	33.6	35.5	0	60.9	61.1	70	N	-	-	14.2	Y	N	N
B3-8-1	2	17.9	B3-8	-	46.9	0	61.7	15.6	35.1	36	0	61.7	61.9	70	N	-	-	15.0	Y	N	N
B3-8-1	3	21.1	B3-8	-	46.9	0	63	15.5	37.3	36.4	0	63.1	63.2	70	N	-	-	16.3	Y	N	N
B3-8-1	4	24.3	B3-8	-	46.9	0	63.9	15.5	41	36.8	0	63.9	64.0	70	N	-	-	17.1	Y	N	N
B3-8-1	5	27.5	B3-8	-	46.9	0	64.5	15.5	42.7	37.3	0	64.5	64.6	70	N	-	-	17.7	Y	N	N
B3-8-1	6	30.7	B3-8	-	46.8	0	65	15.5	43.2	37.8	0	65.1	65.1	70	N	-	-	18.3	Y	N	N
B3-8-1	7	33.9	B3-8	-	46.8	0	65.6	15.5	43.4	38.3	0	65.6	65.7	70	N	-	-	18.9	Y	N	N
B3-8-1	8	37.1	B3-8	-	46.8	0	65.9	15.4	43.6	38.8	0	66	66.0	70	N	-	-	19.2	Y	N	N
B3-8-1	9	40.3	B3-8	-	46.8	0	66.2	15.4	43.8	39.4	0	66.2	66.3	70	N	-	-	19.5	Y	N	N
B3-8-1	10	43.5	B3-8	-	46.8	0	66.3	15.4	44.1	40.1	0	66.4	66.4	70	N	-	-	19.6	Y	N	N
B3-8-1	11	46.7	B3-8	-	46.8	0	66.5	15.3	44.5	40.8	0	66.5	66.6	70	N	-	-	19.8	Y	N	N
B3-8-1	12	49.9	B3-8	-	46.9	0	66.8	15.3	45.3	41.4	0	66.8	66.8	70	N	-	-	19.9	Y	N	N
B3-8-1	13	53.1	B3-8	-	46.9	0	67.1	15.1	46.7	42.2	0	67.1	67.2	70	N	-	-	20.3	Y	N	N
B3-8-1	14	56.3	B3-8	-	46.9	0	67.6	15.7	48.3	42.9	0	67.6	67.7	70	N	-	-	20.8	Y	N	N
B3-8-1	15	59.5	B3-8	-	46.9	0	68	16.3	49.5	43.5	0	68.1	68.1	70	N	-	-	21.2	Y	N	N
B3-8-1	16	62.7	B3-8	-	46.8	0	68.4	17	49.9	44.1	0	68.5	68.5	70	N	-	-	21.7	Y	N	N
B3-8-2	1	14.7	B3-8	-	38.2	0	68	42	50.2	0	0	68.1	68.1	70	N	-	-	29.9	Y	N	N
B3-8-2	2	17.9	B3-8	-	38.2	0	68.4	44.4	50.3	0	0	68.5	68.5	70	N	-	-	30.3	Y	N	N
B3-8-2	3	21.1	B3-8	-	38.2	0	68.7	47.5	50.4	0	0	68.7	68.8	70	N	-	-	30.6	Y	N	N
B3-8-2	4	24.3	B3-8	-	38.2	0	68.8	51.7	50.7	0	0	69	69.0	70	N	-	-	30.8	Y	N	N
B3-8-2	5	27.5	B3-8	-	38.2	0	69	54.2	50.9	0	0	69.2	69.2	70	N	-	-	31.0	Y	N	N
B3-8-2	6	30.7	B3-8	-	38.2	0	69.1	55.4	51	0	0	69.4	69.4	70	N	-	-	31.2	Y	N	N
B3-8-2	7	33.9	B3-8	-	38.2	0	69.3	55.8	51	0	0	69.5	69.6	70	N	-	-	31.4	Y	N	N
B3-8-2	8	37.1	B3-8	-	38.2	0	69.5	56	51	0	0	69.7	69.7	70	N	-	-	31.5	Y	N	N
B3-8-2	9	40.3	B3-8	-	38.2	0	69.7	56	51	0	0	69.9	69.9	70	N	-	-	31.7	Y	N	N
B3-8-2	10	43.5	B3-8	-	38.2	0	70.1	56	51.1	0	0	70.3	70.3	70	N	-	-	32.1	Y	N	N
B3-8-2	11	46.7	B3-8	-	38.3	0	70.7	56	51.1	0	0	70.9	70.9	70	Y	-	-	32.6	Y	Y	Y
B3-8-2	12	49.9	B3-8	-	38.4	0	71.2	56	51.3	0	0	71.4	71.4	70	Y	-	-	33.0	Y	Y	Y
B3-8-2	13	53.1	B3-8	-	38.6	0	71.5	55.9	51.5	0	0	71.6	71.7	70	Y	-	-	33.1	Y	Y	Y
B3-8-2	14	56.3	B3-8	-	38.8	0	71.6	55.9	51.9	0	0	71.7	71.7	70	Y	-	-	32.9	Y	Y	Y
B3-8-2	15	59.5	B3-8	-	38.8	0	71.6	55.9	52.5	0	0	71.8	71.8	70	Y	-	-	33.0	Y	Y	Y
B3-8-2	16	62.7	B3-8	-	38.8	0	71.6	55.9	52.8	0	0	71.8	71.8	70	Y	-	-	33.0	Y	Y	Y
B3-8-3	1	14.7	B3-8	-	35.2	0	72.2	59.7	59.4	0	0	72.6	72.6	70	Y	-	-	37.4	Y	Y	Y
B3-8-3	2	17.9	B3-8	-	35.2	0	72.2	59.8	59.4	0	0	72.7	72.7	70	Y	-	-	37.5	Y	Y	Y
B3-8-3	3	21.1	B3-8	-	35.2	0	72.2	60.3	59.4	0	0	72.7	72.7	70	Y	-	-	37.5	Y	Y	Y
B3-8-3	4	24.3	B3-8	-	35.2	0	72.2	60.6	59.3	0	0	72.7	72.7	70	Y	-	-	37.5	Y	Y	Y
B3-8-3	5	27.5	B3-8	-	35.2	0	72.1	60.8	59.3	0	0	72.6	72.6	70	Y	-	-	37.4	Y	Y	Y
B3-8-3	6	30.7	B3-8	-	35.2	0	72	60.9	59.2	0	0	72.6	72.6	70	Y	-	-	37.4	Y	Y	Y
B3-8-3	7	33.9	B3-8	-	35.2	0	72	61	59.2	0	0	72.5	72.5	70	Y	-	-	37.3	Y	Y	Y
B3-8-3	8	37.1	B3-8	-	35.2	0	72	61.1	59.1	0	0	72.5	72.5	70	Y	-	-	37.3	Y	Y	Y
B3-8-3	9	40.3	B3-8	-	35.2	0	72.1	61	59	0	0	72.6	72.6	70	Y	-	-	37.4	Y	Y	Y
B3-8-3	10	43.5	B3-8	-	35.3	0	72.2	60.9	58.9	0	0	72.7	72.7	70	Y	-	-	37.4	Y	Y	Y
B3-8-3	11	46.7	B3-8	-	35.5	0	72.4	60.8	58.8	0	0	72.9	72.9	70	Y	-	-	37.4	Y	Y	Y
B3-8-3	12	49.9	B3-8	-	35.9	0	72.5	60.7	58.6	0	0	73	73.0	70	Y	-	-	37.1	Y	Y	Y
B3-8-3	13	53.1	B3-8	-	36.2	0	72.5	60.6	58.5	0	0	73	73.0	70	Y	-	-	36.8	Y	Y	Y
B3-8-3	14	56.3	B3-8	-	36.3	0	72.5	60.5	58.4	0	0	72.9	72.9	70	Y	-	-	36.6	Y	Y	Y
B3-8-3	15	59.5	B3-8	-	36.4	0	72.5	60.4	58.3	0	0	72.9	72.9	70	Y	-	-	36.5	Y	Y	Y
B3-8-3	16	62.7	B3-8	-	36.4	0	72.3	60.3	58.2	0	0	72.8	72.8	70	Y	-	-	36.4	Y	Y	Y
B3-8-4	1	14.7	B3-8	-	41	0	72.7	59.9	66.4	0	0	73.8	73.8	70	Y	-	-	32.8	Y	Y	Y
B3-8-4	2	17.9	B3-8	-	41.9	0	72.6	60	66.3	0	0	73.7	73.7	70	Y	-	-	31.8	Y	Y	Y
B3-8-4	3	21.1	B3-8	-	42.8	0	72.5	60.2	66.2	0	0	73.6	73.6	70	Y	-	-	30.8	Y	Y	Y
B3-8-4	4	24.3	B3-8	-	43.4	0	72.3	60.6	66.1	0	0	73.5	73.5	70	Y	-	-	30.1	Y	Y	Y
B3-8-4	5	27.5	B3-8	-	43.7	0	72.2	60.9	65.9	0	0	73.3	73.3	70	Y	-	-	29.6	Y	Y	Y
B3-8-4	6	30.7	B3-8	-	44.2	0	72	61	65.8	0	0	73.2	73.2	70	Y	-	-	29.0	Y	Y	Y
B3-8-4	7	33.9	B3-8	-	44.5	0	71.9	61	65.6	0	0	73.1	73.1	70	Y	-	-	28.6	Y	Y	Y
B3-8-4	8	37.1	B3-8	-	44.7	0	71.7	61	65.4	0	0	72.9	73.0	70	Y	-	-	28.3	Y	Y	Y
B3-8-4	9	40.3	B3-8	-	44.9	0	71.6	60.9	65.3	0	0	72.8	72.8	70	Y	-	-	27.9	Y	Y	Y
B3-8-4	10	43.5	B3-8	-	45.1	0	71.5	60.8	65.1	0	0	72.7	72.7	70	Y	-	-	27.6	Y	Y	Y
B3-8-4	11	46.7	B3-8	-	45.2	0	71.4	60.7	64.9	0	0	72.6	72.6	70	Y	-	-	27.4	Y	Y	Y
B3-8-4	12	49.9	B3-8	-	45.3	0	71.3	60.7	64.7	0	0	72.5	72.5	70	Y	-	-	27.2	Y	Y	Y
B3-8-4	13	53.1	B3-8	-	45.4	0	71.2	60.5	64.5	0	0	72.4	72.4	70	Y	-	-	27.0	Y	Y	Y
B3-8-4	14	56.3	B3-8	-	45.4	0	71.1	60.4	64.4	0	0	72.3	72.3	70	Y	-	-	26.9	Y	Y	Y
B3-8-4	15	59.5	B3-8	-	45.5	0	71.1	60.3	64.2	0	0	72.2	72.2	70	Y	-	-	26.7	Y	Y	Y
B3-8-4	16	62.7	B3-8	-	45.5	0	70.9	60.2	64.1	0	0	72	72.0	70	Y	-	-	26.5	Y	Y	Y
B3-8-5	1	14.7	B3-8	-	33.4	0	68.9	57.4	68.9	0	0	72.1	72.1	70	Y	-	-	38.7	Y	Y	Y
B3-8-5	2	17.9	B3-8	-	34	0	68.9	57.4	68.7	0	0	72	72.0	70	Y	-	-	38.0	Y	Y	Y
B3-8-5	3	21.1	B3-8	-	34.7	0	68.9	57.5	68.4	0	0	71.8	71.8	70	Y	-	-	37.1	Y	Y	Y
B3-8-5	4	24.3	B3-8	-	34.5	0	68.8	57.8	68.2	0	0	71.7	71.7	70	Y	-	-	37.2	Y	Y	Y
B3-8-5	5	27.5	B3-8	-	34.8	0	68.8	58.1	67.9	0	0	71.6	71.6	70	Y	-	-	36.8	Y	Y	Y
B3-8-5	6	30.7	B3-8	-	34.9	0	68.7	58.3	67.6	0	0	71.4	71.4	70	Y	-	-	36.5	Y	Y	Y
B3-8-5	7	33.9	B3-8	-	35.4	0	68.7	58.5	67.3	0	0	71.3	71.3	70	Y	-	-	35.9	Y	Y	Y
B3-8-5	8	37.1	B3-8	-	35.9	0	68.6	58.6	67.1	0	0	71.1	71.2	70	Y	-	-	35.3	Y	Y	Y
B3-8-5	9	40.3	B3-8	-	36.3	0	68.5	58.5	66.8	0	0	71	71.0	70	Y	-	-	34.7	Y	Y	Y
B3-8-5	10	43.5	B3-8	-	36.6	0	68.5	58.5	66.6	0	0	70.9	70.9	70	Y	-	-	34.3	Y	Y	Y

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT															
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	New Roads[2]					New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
B3-8-5	11	46.7	B3-8	-	36.9	0	68.4	58.5	66.3	0	0	70.7	70.7	70	Y	-	-	33.8	Y	Y	Y
B3-8-5	12	49.9	B3-8	-	37.2	0	68.3	58.4	66	0	0	70.6	70.6	70	Y	-	-	33.4	Y	Y	Y
B3-8-5	13	53.1	B3-8	-	37.4	0	68.2	58.4	65.8	0	0	70.5	70.5	70	Y	-	-	33.1	Y	Y	Y
B3-8-5	14	56.3	B3-8	-	37.6	0	68.2	58.3	65.6	0	0	70.4	70.4	70	N	-	-	32.8	Y	N	N
B3-8-5	15	59.5	B3-8	-	37.8	0	68.1	58.2	65.4	0	0	70.2	70.2	70	N	-	-	32.4	Y	N	N
B3-8-5	16	62.7	B3-8	-	37.9	0	68	58.1	65.2	0	0	70.1	70.1	70	N	-	-	32.2	Y	N	N
B3-8-6	1	14.7	B3-8	-	41.8	0	34.4	0	65.9	0	0	65.9	65.9	70	N	-	-	24.1	Y	N	N
B3-8-6	2	17.9	B3-8	-	41.8	0	34.8	0	65.8	0	0	65.8	65.8	70	N	-	-	24.0	Y	N	N
B3-8-6	3	21.1	B3-8	-	41.8	0	35.2	0	65.7	0	0	65.7	65.7	70	N	-	-	23.9	Y	N	N
B3-8-6	4	24.3	B3-8	-	41.8	0	35.6	0	65.5	0	0	65.5	65.6	70	N	-	-	23.8	Y	N	N
B3-8-6	5	27.5	B3-8	-	41.7	0	36	0	65.3	0	0	65.3	65.4	70	N	-	-	23.7	Y	N	N
B3-8-6	6	30.7	B3-8	-	41.7	0	36.5	0	65.2	0	0	65.2	65.2	70	N	-	-	23.5	Y	N	N
B3-8-6	7	33.9	B3-8	-	41.7	0	36.9	0	65	0	0	65	65.0	70	N	-	-	23.3	Y	N	N
B3-8-6	8	37.1	B3-8	-	41.7	0	37.4	0	64.8	0	0	64.8	64.8	70	N	-	-	23.1	Y	N	N
B3-8-6	9	40.3	B3-8	-	41.7	0	37.9	0	64.6	0	0	64.6	64.6	70	N	-	-	22.9	Y	N	N
B3-8-6	10	43.5	B3-8	-	41.7	0	38.5	0	64.4	0	0	64.4	64.4	70	N	-	-	22.7	Y	N	N
B3-8-6	11	46.7	B3-8	-	41.7	0	38.9	0	64.2	0	0	64.2	64.3	70	N	-	-	22.6	Y	N	N
B3-8-6	12	49.9	B3-8	-	41.6	0	39.5	0	64	0	0	64	64.1	70	N	-	-	22.5	Y	N	N
B3-8-6	13	53.1	B3-8	-	41.6	0	40.2	0	63.8	0	0	63.9	63.9	70	N	-	-	22.3	Y	N	N
B3-8-6	14	56.3	B3-8	-	41.6	0	40.8	0	63.7	0	0	63.7	63.7	70	N	-	-	22.1	Y	N	N
B3-8-6	15	59.5	B3-8	-	41.6	0	41.5	0	63.5	0	0	63.5	63.5	70	N	-	-	21.9	Y	N	N
B3-8-6	16	62.7	B3-8	-	41.6	0	42.3	0	63.3	0	0	63.3	63.3	70	N	-	-	21.7	Y	N	N
C1-3-1	1	11.2	C1-3	-	64.4	0	62.2	65.5	45.9	61.8	0	68.3	69.8	70	N	-	-	5.4	Y	N	N
C1-3-1	2	13.9	C1-3	-	64.3	0	63.2	65.5	45.9	62.4	0	68.7	70.0	70	N	-	-	5.7	Y	N	N
C1-3-1	3	16.6	C1-3	-	64.1	0	64.4	65.4	45.9	63	0	69.2	70.3	70	N	-	-	6.2	Y	N	N
C1-3-2	1	11.2	C1-3	-	59.6	0	63.6	64.3	45.8	62.4	0	68.3	68.8	70	N	-	-	9.2	Y	N	N
C1-3-2	2	13.9	C1-3	-	59.6	0	65.1	64.3	45.8	63.3	0	69.1	69.5	70	N	-	-	9.9	Y	N	N
C1-3-2	3	16.6	C1-3	-	59.5	0	66.7	64.2	45.8	64.2	0	70	70.4	70	N	-	-	10.9	Y	N	N
C1-3-3	1	11.2	C1-3	-	46.7	0	62.5	58.6	39.9	59.6	0	65.3	65.4	70	N	-	-	18.7	Y	N	N
C1-3-3	2	13.9	C1-3	-	47	0	64	58.7	39.9	61	0	66.5	66.6	70	N	-	-	19.6	Y	N	N
C1-3-3	3	16.6	C1-3	-	47.6	0	66	58.9	39.9	62.4	0	68.1	68.1	70	N	-	-	20.5	Y	N	N
C1-3-4	1	11.2	C1-3	-	53.2	0	66.3	58.4	42.6	63.6	0	68.6	68.7	70	N	-	-	15.5	Y	N	N
C1-3-4	2	13.9	C1-3	-	53.2	0	66.9	58.5	42.6	63.9	0	69.1	69.2	70	N	-	-	16.0	Y	N	N
C1-3-4	3	16.6	C1-3	-	53.3	0	67.5	58.5	42.6	64.1	0	69.5	69.6	70	N	-	-	16.3	Y	N	N
D1-7a-1	1	21.2	D1-7a	-	0	0	64.8	61.5	52.6	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
D1-7a-1	2	24.4	D1-7a	-	0	0	65.3	61.9	53.1	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
D1-7a-1	3	27.6	D1-7a	-	0	0	66.4	62.6	53.4	0	0	68.1	68.1	70	N	-	-	68.1	Y	N	N
D1-7a-1	4	30.8	D1-7a	-	0	0	68.1	63.2	53.5	0	0	69.4	69.4	70	N	-	-	69.4	Y	N	N
D1-7a-1	5	34	D1-7a	-	0	0	69.2	63.6	53.5	0	0	70.4	70.4	70	N	-	-	70.4	Y	N	N
D1-7a-1	6	37.2	D1-7a	-	0	0	69.6	63.8	53.5	0	0	70.7	70.7	70	Y	-	-	70.7	Y	Y	Y
D1-7a-1	7	40.4	D1-7a	-	0	0	69.8	63.8	53.4	0	0	70.9	70.9	70	Y	-	-	70.9	Y	Y	Y
D1-7a-1	8	43.6	D1-7a	-	0	0	70.1	63.9	53.5	0	0	71.1	71.1	70	Y	-	-	71.1	Y	Y	Y
D1-7a-1	9	46.8	D1-7a	-	0	0	70.2	63.9	53.4	0	0	71.2	71.2	70	Y	-	-	71.2	Y	Y	Y
D1-7a-1	10	50	D1-7a	-	0	0	70.5	64	53.4	0	0	71.5	71.5	70	Y	-	-	71.5	Y	Y	Y
D1-7a-1	11	53.2	D1-7a	-	0	0	70.6	64	53.4	0	0	71.5	71.5	70	Y	-	-	71.5	Y	Y	Y
D1-7a-1	12	56.4	D1-7a	-	0	0	70.6	64	53.3	0	0	71.6	71.6	70	Y	-	-	71.6	Y	Y	Y
D1-7a-1	13	59.6	D1-7a	-	0	0	70.6	64	53.3	0	0	71.5	71.5	70	Y	-	-	71.5	Y	Y	Y
D1-7a-1	14	62.8	D1-7a	-	0	0	70.5	64	53.2	0	0	71.4	71.4	70	Y	-	-	71.4	Y	Y	Y
D1-7a-1	15	66	D1-7a	-	0	0	70.3	63.9	53.2	0	0	71.3	71.3	70	Y	-	-	71.3	Y	Y	Y
D1-7a-1	16	69.2	D1-7a	-	0	0	70.2	64	53.1	0	0	71.2	71.2	70	Y	-	-	71.2	Y	Y	Y
D1-7a-1	17	72.4	D1-7a	-	0	0	70.1	63.9	53	0	0	71.1	71.1	70	Y	-	-	71.1	Y	Y	Y
D1-7a-1	18	75.6	D1-7a	-	0	0	69.9	63.9	53	0	0	71	71.0	70	Y	-	-	71.0	Y	Y	Y
D1-7a-1	19	78.8	D1-7a	-	0	0	69.8	63.9	52.9	0	0	70.9	70.9	70	Y	-	-	70.9	Y	Y	Y
D1-7a-1	20	82	D1-7a	-	0	0	69.7	63.9	52.8	0	0	70.8	70.8	70	Y	-	-	70.8	Y	Y	Y
D1-7a-1	21	85.2	D1-7a	-	0	0	69.5	63.9	52.7	0	0	70.6	70.6	70	Y	-	-	70.6	Y	Y	Y
D1-7a-1	22	88.4	D1-7a	-	0	0	69.4	63.8	52.6	0	0	70.5	70.5	70	Y	-	-	70.5	Y	Y	Y
D1-7a-2	1	21.2	D1-7a	-	0	0	61	66.3	60	0	0	68.1	68.1	70	N	-	-	68.1	Y	N	N
D1-7a-2	2	24.4	D1-7a	-	0	0	61.9	66.4	59.9	0	0	68.4	68.4	70	N	-	-	68.4	Y	N	N
D1-7a-2	3	27.6	D1-7a	-	0	0	63.3	66.8	59.9	0	0	69	69.0	70	N	-	-	69.0	Y	N	N
D1-7a-2	4	30.8	D1-7a	-	0	0	65.3	67.1	59.9	0	0	69.8	69.8	70	N	-	-	69.8	Y	N	N
D1-7a-2	5	34	D1-7a	-	0	0	67.3	67.3	59.8	0	0	70.7	70.7	70	Y	-	-	70.7	Y	Y	Y
D1-7a-2	6	37.2	D1-7a	-	0	0	68.3	67.4	59.7	0	0	71.2	71.2	70	Y	-	-	71.2	Y	Y	Y
D1-7a-2	7	40.4	D1-7a	-	0	0	68.8	67.4	59.5	0	0	71.4	71.4	70	Y	-	-	71.4	Y	Y	Y
D1-7a-2	8	43.6	D1-7a	-	0	0	69	67.5	59.4	0	0	71.6	71.6	70	Y	-	-	71.6	Y	Y	Y
D1-7a-2	9	46.8	D1-7a	-	0	0	69.2	67.5	59.3	0	0	71.7	71.7	70	Y	-	-	71.7	Y	Y	Y
D1-7a-2	10	50	D1-7a	-	0	0	69.4	67.4	59.1	0	0	71.7	71.7	70	Y	-	-	71.7	Y	Y	Y
D1-7a-2	11	53.2	D1-7a	-	0	0	69.6	67.3	59	0	0	71.9	71.9	70	Y	-	-	71.9	Y	Y	Y
D1-7a-2	12	56.4	D1-7a	-	0	0	69.9	67.3	58.9	0	0	72	72.0	70	Y	-	-	72.0	Y	Y	Y
D1-7a-2	13	59.6	D1-7a	-	0	0	70	67.2	58.7	0	0	72	72.0	70	Y	-	-	72.0	Y	Y	Y
D1-7a-2	14	62.8	D1-7a	-	0	0	70	67.1	58.6	0	0	72	72.0	70	Y	-	-	72.0	Y	Y	Y
D1-7a-2	15	66	D1-7a	-	0	0	70	67.1	58.4	0	0	72	72.0	70	Y	-	-	72.0	Y	Y	Y
D1-7a-2	16	69.2	D1-7a	-	0	0	69.9	67	58.3	0	0	71.9	71.9	70	Y	-	-	71.9	Y	Y	Y
D1-7a-2	17	72.4	D1-7a	-	0	0	69.8	66.9	58.1	0	0	71.8	71.8	70	Y	-	-	71.8	Y	Y	Y
D1-7a-2	18	75.6	D1-7a	-	0	0	69.7	66.8	58	0	0	71.7	71.7	70	Y	-	-	71.7	Y	Y	Y
D1-7a-2	19	78.8	D1-7a	-	0	0	69.6	66.7	57.9	0	0	71.6	71.6	70	Y	-	-	71.6	Y	Y	Y
D1-7a-2	20	82	D1-7a	-	0	0	69.5	66.6	57.8	0	0	71.5	71.5	70	Y	-	-	71.5	Y	Y	Y
D1-7a-2	21	85.2	D1-7a	-	0	0	69.3	66.5	57.7	0	0	71.3	71.3	70	Y	-	-	71.3	Y	Y	Y
D1-7a-2	22	88.4	D1-7a	-	0	0	69.2	66.4	57.5	0	0	71.2	71.2	70	Y	-	-	71.2	Y	Y	Y
D1-7a-3	1	21.2	D1-7a	-	35.4	0	55	68	66.9	0	0	70.6	70.6	70	Y	-	-	35.2	Y	Y	Y
D1-7a-3	2	24.4	D1-7a	-	36.2	0	55.6	68.1	66.8	0	0	70.6	70.6	70	Y	-	-	34.4	Y	Y	Y
D1-7a-3	3	27.6	D1-7a	-	36.5	0	56.6	68.1	66.6	0	0	70.6	70.6	70	Y	-	-	34.1	Y	Y	Y
D1-7a-3	4	30.8	D1-7a	-	36.7	0	57.6	68.1	66.4	0	0	70.6	70.6	70	Y	-	-	33.9	Y	Y	Y
D1-7a-3	5	34	D1-7a	-	36.9	0	59.8	68	66.2	0	0	70.6	70.6	70	Y	-	-	33.7	Y	Y	Y
D1-7a-3	6	37.2	D1-7a	-	37	0	61.3	67.9	66	0	0	70.6	70.6	70	Y	-	-	33.6	Y	Y	Y
D1-7a-3	7	40.4	D1-7a	-	37.4	0	62.7	67.9	65.7	0	0	70.7	70.7	70	Y	-	-	33.3	Y	Y	Y
D1-7a-3	8	43.6	D1-7a	-	37.6	0	63.3	67.8	65.5	0	0	70.7	70.7	70	Y	-	-	33.1	Y	Y	Y
D1-7a-3	9	46.8	D1-7a	-	37.9	0	63.7	67.7	65.3	0	0	70.6	70.6	70	Y	-	-	32.7	Y	Y	Y
D1-7a-3	10	50	D1-7a	-	38.4	0	63.7	67.6	65	0	0	70.5	70.5	70	Y	-	-	32.1	Y	Y	Y
D1-7a-3	11	53.2	D1-7a	-	39.1	0	63.9	67.5	64.8	0	0	70.4	70.5	70	Y	-	-	31.4	Y	N	Y
D1-7a-3	12	56.4	D1-7a	-	40	0	64.1	67.4	64.5	0	0	70.4	70.4	70	N	-	-	30.4	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT															
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	New Roads[2]					New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR					C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
D1-7a-3	13	59.6	D1-7a	-	41	0	64.3	67.3	64.3	0	0	70.3	70.3	70	N	-	-	29.3	Y	N	N
D1-7a-3	14	62.8	D1-7a	-	41.8	0	64.4	67.2	64.1	0	0	70.2	70.2	70	N	-	-	28.4	Y	N	N
D1-7a-3	15	66	D1-7a	-	42.6	0	64.7	67.1	63.9	0	0	70.2	70.2	70	N	-	-	27.6	Y	N	N
D1-7a-3	16	69.2	D1-7a	-	43.4	0	64.9	67	63.7	0	0	70.2	70.2	70	N	-	-	26.8	Y	N	N
D1-7a-3	17	72.4	D1-7a	-	44	0	65	66.8	63.5	0	0	70.1	70.1	70	N	-	-	26.1	Y	N	N
D1-7a-3	18	75.6	D1-7a	-	44.5	0	65.1	66.7	63.3	0	0	70.1	70.1	70	N	-	-	25.6	Y	N	N
D1-7a-3	19	78.8	D1-7a	-	45.1	0	65.1	66.6	63.2	0	0	70	70.0	70	N	-	-	24.9	Y	N	N
D1-7a-3	20	82	D1-7a	-	45.6	0	65.1	66.5	63	0	0	69.9	69.9	70	N	-	-	24.3	Y	N	N
D1-7a-3	21	85.2	D1-7a	-	45.9	0	65.1	66.4	62.8	0	0	69.8	69.8	70	N	-	-	23.9	Y	N	N
D1-7a-3	22	88.4	D1-7a	-	46.2	0	65	66.3	62.7	0	0	69.7	69.7	70	N	-	-	23.5	Y	N	N
D1-7a-4	1	21.2	D1-7a	-	38.8	0	31.6	61	68	0	0	68.8	68.8	70	N	-	-	30.0	Y	N	N
D1-7a-4	2	24.4	D1-7a	-	39	0	31.5	61	67.9	0	0	68.7	68.7	70	N	-	-	29.7	Y	N	N
D1-7a-4	3	27.6	D1-7a	-	39.1	0	31.5	61	67.7	0	0	68.5	68.5	70	N	-	-	29.4	Y	N	N
D1-7a-4	4	30.8	D1-7a	-	39.4	0	31.5	61.1	67.4	0	0	68.3	68.3	70	N	-	-	28.9	Y	N	N
D1-7a-4	5	34	D1-7a	-	39.6	0	31.5	61.1	67.1	0	0	68.1	68.1	70	N	-	-	28.5	Y	N	N
D1-7a-4	6	37.2	D1-7a	-	40.1	0	31.5	61.1	66.9	0	0	67.9	67.9	70	N	-	-	27.8	Y	N	N
D1-7a-4	7	40.4	D1-7a	-	40.5	0	31.5	61.1	66.6	0	0	67.7	67.7	70	N	-	-	27.2	Y	N	N
D1-7a-4	8	43.6	D1-7a	-	41.4	0	31.4	61.1	66.3	0	0	67.4	67.4	70	N	-	-	26.0	Y	N	N
D1-7a-4	9	46.8	D1-7a	-	42.6	0	31.4	61.1	66	0	0	67.2	67.2	70	N	-	-	24.6	Y	N	N
D1-7a-4	10	50	D1-7a	-	43.5	0	31.4	61.1	65.7	0	0	67	67.0	70	N	-	-	23.5	Y	N	N
D1-7a-4	11	53.2	D1-7a	-	44.3	0	31.3	61.1	65.4	0	0	66.8	66.8	70	N	-	-	22.5	Y	N	N
D1-7a-4	12	56.4	D1-7a	-	45.2	0	31.3	61.1	65.1	0	0	66.6	66.6	70	N	-	-	21.4	Y	N	N
D1-7a-4	13	59.6	D1-7a	-	45.9	0	31.3	61	64.9	0	0	66.4	66.4	70	N	-	-	20.5	Y	N	N
D1-7a-4	14	62.8	D1-7a	-	46.6	0	31.2	61	64.7	0	0	66.2	66.3	70	N	-	-	19.7	Y	N	N
D1-7a-4	15	66	D1-7a	-	47.2	0	31.2	61	64.4	0	0	66	66.1	70	N	-	-	18.9	Y	N	N
D1-7a-4	16	69.2	D1-7a	-	47.6	0	31.2	60.9	64.2	0	0	65.9	66.0	70	N	-	-	18.4	Y	N	N
D1-7a-4	17	72.4	D1-7a	-	48	0	31.1	60.9	64	0	0	65.8	65.8	70	N	-	-	17.8	Y	N	N
D1-7a-4	18	75.6	D1-7a	-	48.5	0	31.1	60.9	63.8	0	0	65.6	65.7	70	N	-	-	17.2	Y	N	N
D1-7a-4	19	78.8	D1-7a	-	48.8	0	31	60.8	63.6	0	0	65.4	65.5	70	N	-	-	16.7	Y	N	N
D1-7a-4	20	82	D1-7a	-	49.1	0	30.9	60.8	63.4	0	0	65.3	65.4	70	N	-	-	16.3	Y	N	N
D1-7a-4	21	85.2	D1-7a	-	49.4	0	30.8	60.8	63.3	0	0	65.2	65.3	70	N	-	-	15.9	Y	N	N
D1-7a-4	22	88.4	D1-7a	-	49.6	0	31.1	60.7	63.1	0	0	65.1	65.2	70	N	-	-	15.6	Y	N	N
D1-7a-5	1	21.2	D1-7a	-	40.4	0	25.6	22.4	63.2	0	0	63.2	63.2	70	N	-	-	22.8	Y	N	N
D1-7a-5	2	24.4	D1-7a	-	41.1	0	25.6	22.4	63.6	0	0	63.6	63.6	70	N	-	-	22.5	Y	N	N
D1-7a-5	3	27.6	D1-7a	-	41.8	0	25.6	22.4	63.6	0	0	63.6	63.7	70	N	-	-	21.9	Y	N	N
D1-7a-5	4	30.8	D1-7a	-	42.6	0	25.6	22.3	63.6	0	0	63.6	63.7	70	N	-	-	21.1	Y	N	N
D1-7a-5	5	34	D1-7a	-	43.8	0	25.6	22.3	63.6	0	0	63.6	63.6	70	N	-	-	19.8	Y	N	N
D1-7a-5	6	37.2	D1-7a	-	44.9	0	25.6	22.3	63.4	0	0	63.4	63.5	70	N	-	-	18.6	Y	N	N
D1-7a-5	7	40.4	D1-7a	-	45.9	0	25.6	22.3	63.2	0	0	63.2	63.3	70	N	-	-	17.4	Y	N	N
D1-7a-5	8	43.6	D1-7a	-	47	0	25.5	22.3	63.1	0	0	63.1	63.2	70	N	-	-	16.2	Y	N	N
D1-7a-5	9	46.8	D1-7a	-	47.8	0	25.5	22.3	62.9	0	0	62.9	63.0	70	N	-	-	15.2	Y	N	N
D1-7a-5	10	50	D1-7a	-	48.5	0	25.6	22.2	62.7	0	0	62.7	62.9	70	N	-	-	14.4	Y	N	N
D1-7a-5	11	53.2	D1-7a	-	49.2	0	25.5	22.2	62.5	0	0	62.5	62.7	70	N	-	-	13.5	Y	N	N
D1-7a-5	12	56.4	D1-7a	-	49.9	0	25.5	22.2	62.3	0	0	62.3	62.6	70	N	-	-	12.7	Y	N	N
D1-7a-5	13	59.6	D1-7a	-	50.5	0	25.5	22.2	62.1	0	0	62.1	62.4	70	N	-	-	11.9	Y	N	N
D1-7a-5	14	62.8	D1-7a	-	51	0	25.6	22.1	62	0	0	62	62.3	70	N	-	-	11.3	Y	N	N
D1-7a-5	15	66	D1-7a	-	51.5	0	25.6	22.1	61.8	0	0	61.8	62.2	70	N	-	-	10.7	Y	N	N
D1-7a-5	16	69.2	D1-7a	-	51.9	0	25.9	22.1	61.7	0	0	61.7	62.1	70	N	-	-	10.2	Y	N	N
D1-7a-5	17	72.4	D1-7a	-	52.4	0	26.8	22	61.5	0	0	61.5	62.0	70	N	-	-	9.6	Y	N	N
D1-7a-5	18	75.6	D1-7a	-	52.9	0	27.7	22	61.4	0	0	61.4	62.0	70	N	-	-	9.1	Y	N	N
D1-7a-5	19	78.8	D1-7a	-	53.3	0	28.6	21.9	61.2	0	0	61.2	61.9	70	N	-	-	8.6	Y	N	N
D1-7a-5	20	82	D1-7a	-	53.7	0	29.5	22.1	61.1	0	0	61.1	61.8	70	N	-	-	8.1	Y	N	N
D1-7a-5	21	85.2	D1-7a	-	54	0	30.6	22.2	60.9	0	0	60.9	61.7	70	N	-	-	7.7	Y	N	N
D1-7a-5	22	88.4	D1-7a	-	54.2	0	31.5	22.3	60.8	0	0	60.8	61.7	70	N	-	-	7.5	Y	N	N
D1-7b-1	1	21.2	D1-7b	-	0	0	71.9	57	50.7	0	0	72.1	72.1	70	Y	-	-	72.1	Y	Y	Y
D1-7b-1	2	24.4	D1-7b	-	0	0	72	58	50.7	0	0	72.2	72.2	70	Y	-	-	72.2	Y	Y	Y
D1-7b-1	3	27.6	D1-7b	-	0	0	72.1	58.7	50.6	0	0	72.4	72.4	70	Y	-	-	72.4	Y	Y	Y
D1-7b-1	4	30.8	D1-7b	-	0	0	72.2	59.1	50.6	0	0	72.4	72.4	70	Y	-	-	72.4	Y	Y	Y
D1-7b-1	5	34	D1-7b	-	0	0	72.1	59.4	50.6	0	0	72.4	72.4	70	Y	-	-	72.4	Y	Y	Y
D1-7b-1	6	37.2	D1-7b	-	0	0	72.1	59.5	50.5	0	0	72.3	72.3	70	Y	-	-	72.3	Y	Y	Y
D1-7b-1	7	40.4	D1-7b	-	0	0	72	59.7	50.5	0	0	72.2	72.2	70	Y	-	-	72.2	Y	Y	Y
D1-7b-1	8	43.6	D1-7b	-	0	0	71.9	59.8	50.4	0	0	72.1	72.1	70	Y	-	-	72.1	Y	Y	Y
D1-7b-1	9	46.8	D1-7b	-	0	0	71.7	59.9	50.3	0	0	72	72.0	70	Y	-	-	72.0	Y	Y	Y
D1-7b-1	10	50	D1-7b	-	0	0	71.5	60	50.3	0	0	71.9	71.9	70	Y	-	-	71.9	Y	Y	Y
D1-7b-1	11	53.2	D1-7b	-	0	0	71.3	60.1	50.3	0	0	71.7	71.7	70	Y	-	-	71.7	Y	Y	Y
D1-7b-1	12	56.4	D1-7b	-	0	0	71.2	60.2	50.2	0	0	71.5	71.5	70	Y	-	-	71.5	Y	Y	Y
D1-7b-1	13	59.6	D1-7b	-	0	0	71	60.2	50.1	0	0	71.4	71.4	70	Y	-	-	71.4	Y	Y	Y
D1-7b-1	14	62.8	D1-7b	-	0	0	70.8	60.3	50.1	0	0	71.2	71.2	70	Y	-	-	71.2	Y	Y	Y
D1-7b-1	15	66	D1-7b	-	0	0	70.7	60.3	50	0	0	71.1	71.1	70	Y	-	-	71.1	Y	Y	Y
D1-7b-1	16	69.2	D1-7b	-	0	0	70.5	60.3	50	0	0	70.9	70.9	70	Y	-	-	70.9	Y	Y	Y
D1-7b-1	17	72.4	D1-7b	-	0	0	70.3	60.4	49.9	0	0	70.8	70.8	70	Y	-	-	70.8	Y	Y	Y
D1-7b-1	18	75.6	D1-7b	-	0	0	70.2	60.4	49.9	0	0	70.6	70.6	70	Y	-	-	70.6	Y	Y	Y
D1-7b-1	19	78.8	D1-7b	-	0	0	70	60.4	49.8	0	0	70.5	70.5	70	Y	-	-	70.5	Y	Y	Y
D1-7b-1	20	82	D1-7b	-	0	0	69.9	60.5	49.7	0	0	70.4	70.4	70	N	-	-	70.4	Y	N	N
D1-7b-1	21	85.2	D1-7b	-	0	0	69.7	60.5	49.7	0	0	70.2	70.2	70	N	-	-	70.2	Y	N	N
D1-7b-2	1	21.2	D1-7b	-	0	0	73	55.5	54.1	0	0	73.1	73.1	70	Y	-	-	73.1	Y	Y	Y
D1-7b-2	2	24.4	D1-7b	-	0	0	72.8	56.5	54	0	0	73	73.0	70	Y	-	-	73.0	Y	Y	Y
D1-7b-2	3	27.6	D1-7b	-	0	0	72.7	57.2	54	0	0	72.9	72.9	70	Y	-	-	72.9	Y	Y	Y
D1-7b-2	4	30.8	D1-7b	-	0	0	72.6	57.6	53.9	0	0	72.8	72.8	70	Y	-	-	72.8	Y	Y	Y
D1-7b-2	5	34	D1-7b	-	0	0	72.4	57.9	53.9	0	0	72.6	72.6	70	Y	-	-	72.6	Y	Y	Y
D1-7b-2	6	37.2	D1-7b	-	0	0	72.2	58.1	53.9	0	0	72.5	72.5	70	Y	-	-	72.5	Y	Y	Y
D1-7b-2	7	40.4	D1-7b	-	0	0	72.1	58.3	53.8	0	0	72.3	72.3	70	Y	-	-	72.3	Y	Y	Y
D1-7b-2	8	43.6	D1-7b	-	0	0	71.9	58.4	53.7	0	0	72.2	72.2	70	Y	-	-	72.2	Y	Y	Y
D1-7b-2	9	46.8	D1-7b	-	0	0	71.7	58.5	53.7	0	0	72	72.0	70	Y	-	-	72.0	Y	Y	Y
D1-7b-2	10	50	D1-7b	-	0	0	71.5	58.6	53.6	0	0	71.8	71.8	70	Y	-	-	71.8	Y	Y	Y
D1-7b-2	11	53.2	D1-7b	-	0	0	71.3	58.7	53.6	0	0	71.6	71.6	70	Y	-	-	71.6	Y	Y	Y
D1-7b-2	12	56.4	D1-7b	-	0	0	71.1	58.7	53.5	0	0	71.4	71.4	70	Y	-	-	71.4	Y	Y	Y
D1-7b-2	13	59.6	D1-7b	-	0	0	71	58.8	53.5	0	0	71.3	71.3	70	Y	-	-	71.3	Y	Y	Y
D1-7b-2	14	62.8	D1-7b	-	0	0	70.8	58.8	53.4	0	0	71.1	71.1	70	Y	-	-	71.1	Y	Y	Y
D1-7b-2	15	66	D1-7b	-	0	0	70.6	58.9	53.4	0	0	71	71.0	70	Y	-	-	71.0	Y	Y	Y

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
									dB (A)							C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
D1-7b-2	16	69.2	D1-7b	-	0	0	70.5	58.9	53.3	0	0	70.9	70.9	70	Y	-	-	70.9	Y	Y	Y
D1-7b-2	17	72.4	D1-7b	-	0	0	70.3	59	53.3	0	0	70.7	70.7	70	Y	-	-	70.7	Y	Y	Y
D1-7b-2	18	75.6	D1-7b	-	0	0	70.2	59.1	53.2	0	0	70.6	70.6	70	Y	-	-	70.6	Y	Y	Y
D1-7b-2	19	78.8	D1-7b	-	0	0	70	59.1	53.1	0	0	70.4	70.4	70	N	-	-	70.4	Y	N	N
D1-7b-2	20	82	D1-7b	-	0	0	69.9	59.1	53.1	0	0	70.3	70.3	70	N	-	-	70.3	Y	N	N
D1-7b-2	21	85.2	D1-7b	-	0	0	69.8	59.2	53	0	0	70.2	70.2	70	N	-	-	70.2	Y	N	N
D1-7b-3	1	21.2	D1-7b	-	40.3	0	0	21.9	62	0	0	62	62.1	70	N	-	-	21.8	Y	N	N
D1-7b-3	2	24.4	D1-7b	-	42	0	0	21.9	62.3	0	0	62.3	62.4	70	N	-	-	20.4	Y	N	N
D1-7b-3	3	27.6	D1-7b	-	44.1	0	0	21.9	62.4	0	0	62.4	62.5	70	N	-	-	18.4	Y	N	N
D1-7b-3	4	30.8	D1-7b	-	46.5	0	0	21.9	62.4	0	0	62.4	62.5	70	N	-	-	16.0	Y	N	N
D1-7b-3	5	34	D1-7b	-	48	0	0	21.9	62.3	0	0	62.3	62.4	70	N	-	-	14.4	Y	N	N
D1-7b-3	6	37.2	D1-7b	-	49.2	0	0	21.9	62.1	0	0	62.1	62.3	70	N	-	-	13.1	Y	N	N
D1-7b-3	7	40.4	D1-7b	-	50.1	0	0	21.9	62	0	0	62	62.3	70	N	-	-	12.2	Y	N	N
D1-7b-3	8	43.6	D1-7b	-	50.7	0	0	21.9	61.9	0	0	61.9	62.2	70	N	-	-	11.5	Y	N	N
D1-7b-3	9	46.8	D1-7b	-	51.3	0	0	21.8	61.7	0	0	61.7	62.1	70	N	-	-	10.8	Y	N	N
D1-7b-3	10	50	D1-7b	-	51.8	0	0	21.8	61.6	0	0	61.6	62.0	70	N	-	-	10.2	Y	N	N
D1-7b-3	11	53.2	D1-7b	-	52.2	0	0	21.8	61.4	0	0	61.4	61.9	70	N	-	-	9.7	Y	N	N
D1-7b-3	12	56.4	D1-7b	-	52.5	0	0	21.8	61.2	0	0	61.2	61.8	70	N	-	-	9.3	Y	N	N
D1-7b-3	13	59.6	D1-7b	-	52.8	0	0	21.8	61.1	0	0	61.1	61.7	70	N	-	-	8.9	Y	N	N
D1-7b-3	14	62.8	D1-7b	-	53.2	0	0	21.7	60.9	0	0	60.9	61.6	70	N	-	-	8.4	Y	N	N
D1-7b-3	15	66	D1-7b	-	53.5	0	0	21.9	60.8	0	0	60.8	61.5	70	N	-	-	8.0	Y	N	N
D1-7b-3	16	69.2	D1-7b	-	53.8	0	0	22	60.6	0	0	60.6	61.4	70	N	-	-	7.6	Y	N	N
D1-7b-3	17	72.4	D1-7b	-	54	0	0	22.1	60.5	0	0	60.5	61.4	70	N	-	-	7.4	Y	N	N
D1-7b-3	18	75.6	D1-7b	-	54.2	0	0	22.2	60.3	0	0	60.3	61.3	70	N	-	-	7.1	Y	N	N
D1-7b-3	19	78.8	D1-7b	-	54.3	0	0	22.2	60.2	0	0	60.2	61.2	70	N	-	-	6.9	Y	N	N
D1-7b-3	20	82	D1-7b	-	54.4	0	0	22.4	60.1	0	0	60.1	61.2	70	N	-	-	6.8	Y	N	N
D1-7b-3	21	85.2	D1-7b	-	54.5	0	0	22.5	60	0	0	60	61.1	70	N	-	-	6.6	Y	N	N
D1-7b-4	1	21.2	D1-7b	-	42.5	0	33	28.6	64	0	0	64	64.0	70	N	-	-	21.5	Y	N	N
D1-7b-4	2	24.4	D1-7b	-	45.2	0	33.3	29.9	64	0	0	64	64.1	70	N	-	-	18.9	Y	N	N
D1-7b-4	3	27.6	D1-7b	-	47.8	0	33.5	31.2	64	0	0	64	64.1	70	N	-	-	16.3	Y	N	N
D1-7b-4	4	30.8	D1-7b	-	50	0	33.7	33.4	63.9	0	0	63.9	64.0	70	N	-	-	14.0	Y	N	N
D1-7b-4	5	34	D1-7b	-	51.3	0	33.9	34.5	63.8	0	0	63.8	64.0	70	N	-	-	12.7	Y	N	N
D1-7b-4	6	37.2	D1-7b	-	52.1	0	34.2	36.2	63.7	0	0	63.7	64.0	70	N	-	-	11.9	Y	N	N
D1-7b-4	7	40.4	D1-7b	-	52.7	0	34.5	37.2	63.5	0	0	63.5	63.9	70	N	-	-	11.2	Y	N	N
D1-7b-4	8	43.6	D1-7b	-	53.1	0	34.8	37.7	63.2	0	0	63.3	63.7	70	N	-	-	10.6	Y	N	N
D1-7b-4	9	46.8	D1-7b	-	53.4	0	35.1	38	63	0	0	63	63.5	70	N	-	-	10.1	Y	N	N
D1-7b-4	10	50	D1-7b	-	53.6	0	35.5	38.2	62.8	0	0	62.8	63.3	70	N	-	-	9.7	Y	N	N
D1-7b-4	11	53.2	D1-7b	-	53.8	0	35.9	38.3	62.6	0	0	62.6	63.1	70	N	-	-	9.3	Y	N	N
D1-7b-4	12	56.4	D1-7b	-	54	0	36.4	38.4	62.4	0	0	62.4	63.0	70	N	-	-	9.0	Y	N	N
D1-7b-4	13	59.6	D1-7b	-	54.3	0	36.9	38.4	62.2	0	0	62.2	62.9	70	N	-	-	8.6	Y	N	N
D1-7b-4	14	62.8	D1-7b	-	54.5	0	37.5	38.4	62	0	0	62	62.7	70	N	-	-	8.2	Y	N	N
D1-7b-4	15	66	D1-7b	-	54.8	0	38.2	38.4	61.8	0	0	61.9	62.6	70	N	-	-	7.8	Y	N	N
D1-7b-4	16	69.2	D1-7b	-	54.9	0	38.8	38.4	61.7	0	0	61.7	62.5	70	N	-	-	7.6	Y	N	N
D1-7b-4	17	72.4	D1-7b	-	55	0	39.7	38.4	61.5	0	0	61.5	62.4	70	N	-	-	7.4	Y	N	N
D1-7b-4	18	75.6	D1-7b	-	55.1	0	40.9	38.4	61.3	0	0	61.4	62.3	70	N	-	-	7.2	Y	N	N
D1-7b-4	19	78.8	D1-7b	-	55.2	0	41.3	38.5	61.2	0	0	61.3	62.2	70	N	-	-	7.0	Y	N	N
D1-7b-4	20	82	D1-7b	-	55.2	0	42.1	38.5	61.1	0	0	61.2	62.1	70	N	-	-	6.9	Y	N	N
D1-7b-4	21	85.2	D1-7b	-	55.2	0	43.1	38.7	60.9	0	0	61	62.1	70	N	-	-	6.9	Y	N	N
D1-7c-1	1	17.7	D1-7c	-	49.5	0	59.9	30.2	70.1	0	0	70.5	70.5	70	Y	-	-	21.0	Y	Y	Y
D1-7c-1	2	20.9	D1-7c	-	49.8	0	59.9	30.8	69.7	0	0	70.1	70.1	70	N	-	-	20.3	Y	N	N
D1-7c-1	3	24.1	D1-7c	-	49.9	0	59.9	31.5	69.3	0	0	69.7	69.8	70	N	-	-	19.9	Y	N	N
D1-7c-1	4	27.3	D1-7c	-	50.1	0	59.8	32.3	68.9	0	0	69.4	69.4	70	N	-	-	19.3	Y	N	N
D1-7c-1	5	30.5	D1-7c	-	50.5	0	59.8	33.1	68.5	0	0	69	69.1	70	N	-	-	18.6	Y	N	N
D1-7c-1	6	33.7	D1-7c	-	51	0	59.7	34	68.1	0	0	68.7	68.8	70	N	-	-	17.8	Y	N	N
D1-7c-1	7	36.9	D1-7c	-	51.6	0	59.7	35.3	67.8	0	0	68.4	68.5	70	N	-	-	16.9	Y	N	N
D1-7c-1	8	40.1	D1-7c	-	52.6	0	59.6	36	67.4	0	0	68.1	68.2	70	N	-	-	15.6	Y	N	N
D1-7c-1	9	43.3	D1-7c	-	53.4	0	59.5	37.5	67.1	0	0	67.8	68.0	70	N	-	-	14.6	Y	N	N
D1-7c-1	10	46.5	D1-7c	-	53.8	0	59.5	38	66.8	0	0	67.5	67.7	70	N	-	-	13.9	Y	N	N
D1-7c-1	11	49.7	D1-7c	-	54	0	59.4	39	66.5	0	0	67.3	67.5	70	N	-	-	13.5	Y	N	N
D1-7c-1	12	52.9	D1-7c	-	54.2	0	59.3	39.8	66.2	0	0	67.1	67.3	70	N	-	-	13.1	Y	N	N
D1-7c-1	13	56.1	D1-7c	-	54.3	0	59.2	40.3	66	0	0	66.8	67.1	70	N	-	-	12.8	Y	N	N
D1-7c-1	14	59.3	D1-7c	-	54.3	0	59.2	40.6	65.7	0	0	66.6	66.9	70	N	-	-	12.6	Y	N	N
D1-7c-1	15	62.5	D1-7c	-	54.2	0	59.1	41	65.5	0	0	66.4	66.7	70	N	-	-	12.5	Y	N	N
D1-7c-1	16	65.7	D1-7c	-	54.2	0	59	41.2	65.3	0	0	66.2	66.5	70	N	-	-	12.3	Y	N	N
D1-7c-1	17	68.9	D1-7c	-	54.1	0	58.9	41.4	65.1	0	0	66	66.3	70	N	-	-	12.2	Y	N	N
D1-7c-2	1	17.7	D1-7c	-	50.4	0	33.2	13.3	70.5	0	0	70.5	70.5	70	Y	-	-	20.1	Y	Y	Y
D1-7c-2	2	20.9	D1-7c	-	50.9	0	33.3	13.3	70	0	0	70	70.0	70	N	-	-	19.1	Y	N	N
D1-7c-2	3	24.1	D1-7c	-	51	0	33.2	13.2	69.5	0	0	69.5	69.5	70	N	-	-	18.5	Y	N	N
D1-7c-2	4	27.3	D1-7c	-	51.5	0	33.2	13.2	69	0	0	69	69.1	70	N	-	-	17.6	Y	N	N
D1-7c-2	5	30.5	D1-7c	-	52.1	0	33.2	13.2	68.5	0	0	68.5	68.6	70	N	-	-	16.5	Y	N	N
D1-7c-2	6	33.7	D1-7c	-	52.6	0	33.2	13.2	68.1	0	0	68.1	68.2	70	N	-	-	15.6	Y	N	N
D1-7c-2	7	36.9	D1-7c	-	53.2	0	33.1	13.2	67.7	0	0	67.7	67.9	70	N	-	-	14.7	Y	N	N
D1-7c-2	8	40.1	D1-7c	-	53.4	0	33.1	13.2	67.4	0	0	67.4	67.5	70	N	-	-	14.1	Y	N	N
D1-7c-2	9	43.3	D1-7c	-	53.5	0	33	13.2	67	0	0	67	67.2	70	N	-	-	13.7	Y	N	N
D1-7c-2	10	46.5	D1-7c	-	53.5	0	33	13.1	66.8	0	0	66.8	67.0	70	N	-	-	13.5	Y	N	N
D1-7c-2	11	49.7	D1-7c	-	53.4	0	32.9	13.6	66.5	0	0	66.5	66.7	70	N	-	-	13.3	Y	N	N
D1-7c-2	12	52.9	D1-7c	-	53.3	0	32.9	14.1	66.2	0	0	66.2	66.4	70	N	-	-	13.1	Y	N	N
D1-7c-2	13	56.1	D1-7c	-	53.2	0	32.9	14.9	66	0	0	66	66.2	70	N	-	-	13.0	Y	N	N
D1-7c-2	14	59.3	D1-7c	-	53.1	0	33.9	15.7	65.7	0	0	65.7	65.9	70	N	-	-	12.8	Y	N	N
D1-7c-2	15	62.5	D1-7c	-	53	0	35.5	16.6	65.5	0	0	65.5	65.7	70	N	-	-	12.7	Y	N	N
D1-7c-2	16	65.7	D1-7c	-	52.9	0	37.3	17.6	65.3	0	0	65.3	65.5	70	N	-	-	12.6	Y	N	N
D1-7c-2	17	68.9	D1-7c	-	52.8	0	39.4	18.6	65.1	0	0	65.1	65.3	70	N	-	-	12.5	Y	N	N
D1-7c-3	1	17.7	D1-7c	-	53.1	0	51.2	12	70.7	0	0	70.8	70.9	70	Y	-	-	17.8	Y	Y	Y
D1-7c-3	2	20.9	D1-7c	-	53.9	0	51.2	12	70.3	0	0	70.4	70.4	70	N	-	-	16.5	Y	N	N
D1-7c-3	3	24.1	D1-7c	-	54.1	0	51.2	12	69.9	0	0	70	70.1	70	N	-	-	16.0	Y	N	N
D1-7c-3	4	27.3	D1-7c	-	54.2	0	51.1	12	69.5	0	0	69.5	69.6	70	N	-	-	15.4	Y	N	N
D1-7c-3	5	30.5	D1-7c	-	54	0	51.1	12	69.1	0	0	69.1	69.3	70	N	-	-	15.3	Y	N	N
D1-7c-3	6	33.7	D1-7c	-	53.9	0	51.1	12	68.7	0	0	68.8	68.9	70	N	-	-	15.0	Y	N	N
D1-7c-3	7	36.9	D1-7c	-	53.7	0	51	12	68.4	0	0	68.5	68.6	70	N	-	-	14.9	Y	N	N
D1-7c-3	8	40.1	D1-7c	-	53.6	0	51	12	68.1	0	0	68.2	68.3	70	N	-	-	14.7	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
									dB (A)							C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
D1-7c-3	9	43.3	D1-7c	-	53.4	0	50.9	12	67.8	0	0	67.9	68.0	70	N	-	-	14.6	Y	N	N
D1-7c-3	10	46.5	D1-7c	-	53.2	0	50.9	11.9	67.5	0	0	67.6	67.8	70	N	-	-	14.6	Y	N	N
D1-7c-3	11	49.7	D1-7c	-	53	0	50.8	11.9	67.3	0	0	67.4	67.5	70	N	-	-	14.5	Y	N	N
D1-7c-3	12	52.9	D1-7c	-	52.9	0	50.7	11.9	67	0	0	67.1	67.3	70	N	-	-	14.4	Y	N	N
D1-7c-3	13	56.1	D1-7c	-	52.7	0	50.7	11.8	66.8	0	0	66.9	67.1	70	N	-	-	14.4	Y	N	N
D1-7c-3	14	59.3	D1-7c	-	52.6	0	50.6	11.8	66.6	0	0	66.7	66.8	70	N	-	-	14.2	Y	N	N
D1-7c-3	15	62.5	D1-7c	-	52.4	0	50.5	11.9	66.4	0	0	66.5	66.7	70	N	-	-	14.3	Y	N	N
D1-7c-3	16	65.7	D1-7c	-	52.3	0	50.5	12.1	66.2	0	0	66.3	66.4	70	N	-	-	14.1	Y	N	N
D1-7c-3	17	68.9	D1-7c	-	52.2	0	50.4	12.3	66	0	0	66.1	66.3	70	N	-	-	14.1	Y	N	N
D1-7c-4	1	17.7	D1-7c	-	4.6	0	72.7	60.4	53.9	0	0	73	73.0	70	Y	-	-	68.4	Y	Y	Y
D1-7c-4	2	20.9	D1-7c	-	4.4	0	72.6	60.4	54	0	0	72.9	72.9	70	Y	-	-	68.5	Y	Y	Y
D1-7c-4	3	24.1	D1-7c	-	4.5	0	72.6	60.4	54.1	0	0	72.9	72.9	70	Y	-	-	68.4	Y	Y	Y
D1-7c-4	4	27.3	D1-7c	-	5.1	0	72.5	60.4	54.1	0	0	72.8	72.8	70	Y	-	-	67.7	Y	Y	Y
D1-7c-4	5	30.5	D1-7c	-	5.7	0	72.5	60.4	54	0	0	72.8	72.8	70	Y	-	-	67.1	Y	Y	Y
D1-7c-4	6	33.7	D1-7c	-	6.4	0	72.5	60.3	54	0	0	72.8	72.8	70	Y	-	-	66.4	Y	Y	Y
D1-7c-4	7	36.9	D1-7c	-	7.1	0	72.7	60.3	54	0	0	73	73.0	70	Y	-	-	65.9	Y	Y	Y
D1-7c-4	8	40.1	D1-7c	-	7.8	0	72.7	60.2	53.9	0	0	73	73.0	70	Y	-	-	65.2	Y	Y	Y
D1-7c-4	9	43.3	D1-7c	-	8.6	0	72.7	60.2	53.9	0	0	73	73.0	70	Y	-	-	64.4	Y	Y	Y
D1-7c-4	10	46.5	D1-7c	-	9.3	0	72.6	60.2	53.8	0	0	72.9	72.9	70	Y	-	-	63.6	Y	Y	Y
D1-7c-4	11	49.7	D1-7c	-	10.1	0	72.5	60.1	53.8	0	0	72.8	72.8	70	Y	-	-	62.7	Y	Y	Y
D1-7c-4	12	52.9	D1-7c	-	10.8	0	72.4	60.1	53.8	0	0	72.7	72.7	70	Y	-	-	61.9	Y	Y	Y
D1-7c-4	13	56.1	D1-7c	-	11.6	0	72.3	60	53.7	0	0	72.6	72.6	70	Y	-	-	61.0	Y	Y	Y
D1-7c-4	14	59.3	D1-7c	-	12.5	0	72.2	60	53.6	0	0	72.5	72.5	70	Y	-	-	60.0	Y	Y	Y
D1-7c-4	15	62.5	D1-7c	-	13.5	0	72.1	59.9	53.6	0	0	72.4	72.4	70	Y	-	-	58.9	Y	Y	Y
D1-7c-4	16	65.7	D1-7c	-	14.4	0	72	59.8	53.5	0	0	72.3	72.3	70	Y	-	-	57.9	Y	Y	Y
D1-7c-4	17	68.9	D1-7c	-	15.4	0	72	59.8	53.5	0	0	72.3	72.3	70	Y	-	-	56.9	Y	Y	Y
D1-7c-5	1	17.7	D1-7c	-	0	0	70.7	52.9	30.5	0	0	70.8	70.8	70	Y	-	-	70.8	Y	Y	Y
D1-7c-5	2	20.9	D1-7c	-	0	0	70.7	53.8	30.5	0	0	70.8	70.8	70	Y	-	-	70.8	Y	Y	Y
D1-7c-5	3	24.1	D1-7c	-	0	0	70.6	55.4	30.5	0	0	70.8	70.8	70	Y	-	-	70.8	Y	Y	Y
D1-7c-5	4	27.3	D1-7c	-	0	0	70.6	56.3	30.5	0	0	70.7	70.7	70	Y	-	-	70.7	Y	Y	Y
D1-7c-5	5	30.5	D1-7c	-	0	0	70.5	56.7	30.4	0	0	70.7	70.7	70	Y	-	-	70.7	Y	Y	Y
D1-7c-5	6	33.7	D1-7c	-	0	0	70.5	56.9	30.4	0	0	70.7	70.7	70	Y	-	-	70.7	Y	Y	Y
D1-7c-5	7	36.9	D1-7c	-	0	0	70.6	57	30.4	0	0	70.8	70.8	70	Y	-	-	70.8	Y	Y	Y
D1-7c-5	8	40.1	D1-7c	-	0	0	70.7	57	30.4	0	0	70.9	70.9	70	Y	-	-	70.9	Y	Y	Y
D1-7c-5	9	43.3	D1-7c	-	0	0	70.8	57	30.4	0	0	71	71.0	70	Y	-	-	71.0	Y	Y	Y
D1-7c-5	10	46.5	D1-7c	-	0	0	70.8	57	30.4	0	0	71	71.0	70	Y	-	-	71.0	Y	Y	Y
D1-7c-5	11	49.7	D1-7c	-	0	0	70.7	57	30.4	0	0	70.9	70.9	70	Y	-	-	70.9	Y	Y	Y
D1-7c-5	12	52.9	D1-7c	-	0	0	70.7	57.1	30.4	0	0	70.8	70.8	70	Y	-	-	70.8	Y	Y	Y
D1-7c-5	13	56.1	D1-7c	-	0	0	70.6	57.1	30.5	0	0	70.7	70.7	70	Y	-	-	70.7	Y	Y	Y
D1-7c-5	14	59.3	D1-7c	-	0	0	70.5	57	30.7	0	0	70.7	70.7	70	Y	-	-	70.7	Y	Y	Y
D1-7c-5	15	62.5	D1-7c	-	0	0	70.4	57	30.7	0	0	70.6	70.6	70	Y	-	-	70.6	Y	Y	Y
D1-7c-5	16	65.7	D1-7c	-	0	0	70.3	57	30.9	0	0	70.5	70.5	70	Y	-	-	70.5	Y	Y	Y
D1-7c-5	17	68.9	D1-7c	-	0	0	70.2	57	31	0	0	70.4	70.4	70	N	-	-	70.4	Y	N	N
D1-7c-6	1	17.7	D1-7c	-	5.6	0	71.2	60.1	61.1	0	0	71.9	71.9	70	Y	-	-	66.3	Y	Y	Y
D1-7c-6	2	20.9	D1-7c	-	5.6	0	71.1	60	61.1	0	0	71.8	71.8	70	Y	-	-	66.2	Y	Y	Y
D1-7c-6	3	24.1	D1-7c	-	5.6	0	71	60	61.1	0	0	71.8	71.8	70	Y	-	-	66.2	Y	Y	Y
D1-7c-6	4	27.3	D1-7c	-	5.5	0	71	60	61	0	0	71.7	71.7	70	Y	-	-	66.2	Y	Y	Y
D1-7c-6	5	30.5	D1-7c	-	5.9	0	70.9	59.9	61	0	0	71.6	71.6	70	Y	-	-	65.7	Y	Y	Y
D1-7c-6	6	33.7	D1-7c	-	6.6	0	70.8	59.8	61	0	0	71.5	71.5	70	Y	-	-	64.9	Y	Y	Y
D1-7c-6	7	36.9	D1-7c	-	7.3	0	70.7	59.8	60.9	0	0	71.4	71.4	70	Y	-	-	64.1	Y	Y	Y
D1-7c-6	8	40.1	D1-7c	-	8.1	0	70.6	59.7	60.9	0	0	71.3	71.3	70	Y	-	-	63.2	Y	Y	Y
D1-7c-6	9	43.3	D1-7c	-	8.9	0	70.5	59.6	60.8	0	0	71.3	71.3	70	Y	-	-	62.4	Y	Y	Y
D1-7c-6	10	46.5	D1-7c	-	9.8	0	70.4	59.5	60.8	0	0	71.2	71.2	70	Y	-	-	61.4	Y	Y	Y
D1-7c-6	11	49.7	D1-7c	-	10.7	0	70.3	59.4	60.7	0	0	71.1	71.1	70	Y	-	-	60.4	Y	Y	Y
D1-7c-6	12	52.9	D1-7c	-	11.7	0	70.2	59.3	60.6	0	0	71	71.0	70	Y	-	-	59.3	Y	Y	Y
D1-7c-6	13	56.1	D1-7c	-	12.7	0	70.2	59.3	60.6	0	0	70.9	70.9	70	Y	-	-	58.2	Y	Y	Y
D1-7c-6	14	59.3	D1-7c	-	13.8	0	70.1	59.2	60.5	0	0	70.8	70.8	70	Y	-	-	57.0	Y	Y	Y
D1-7c-6	15	62.5	D1-7c	-	14.9	0	70	59.1	60.4	0	0	70.8	70.8	70	Y	-	-	55.9	Y	Y	Y
D1-7c-6	16	65.7	D1-7c	-	16.2	0	69.9	59	60.3	0	0	70.7	70.7	70	Y	-	-	54.5	Y	Y	Y
D1-7c-6	17	68.9	D1-7c	-	17.4	0	69.8	58.9	60.3	0	0	70.6	70.6	70	Y	-	-	53.2	Y	Y	Y
D1-7d-1	1	15.2	D1-7d	-	49	0	0	0	71.7	0	0	71.7	71.7	70	Y	-	-	22.7	Y	Y	Y
D1-7d-1	2	18.4	D1-7d	-	49.7	0	0	0	71.3	0	0	71.3	71.3	70	Y	-	-	21.6	Y	Y	Y
D1-7d-1	3	21.6	D1-7d	-	50.2	0	0	0	71	0	0	71	71.0	70	Y	-	-	20.8	Y	Y	Y
D1-7d-1	4	24.8	D1-7d	-	50.7	0	0	0	70.6	0	0	70.6	70.6	70	Y	-	-	19.9	Y	Y	Y
D1-7d-1	5	28	D1-7d	-	51.1	0	0	0	70.2	0	0	70.2	70.3	70	N	-	-	19.2	Y	N	N
D1-7d-1	6	31.2	D1-7d	-	51.5	0	0	0	69.9	0	0	69.9	69.9	70	N	-	-	18.4	Y	N	N
D1-7d-1	7	34.4	D1-7d	-	51.8	0	0	0	69.5	0	0	69.5	69.6	70	N	-	-	17.8	Y	N	N
D1-7d-1	8	37.6	D1-7d	-	52	0	0	0	69.2	0	0	69.2	69.3	70	N	-	-	17.3	Y	N	N
D1-7d-1	9	40.8	D1-7d	-	52.2	0	0	0	68.9	0	0	68.9	69.0	70	N	-	-	16.8	Y	N	N
D1-7d-1	10	44	D1-7d	-	52.3	0	0	0	68.6	0	0	68.6	68.7	70	N	-	-	16.4	Y	N	N
D1-7d-1	11	47.2	D1-7d	-	52.4	0	0	0	68.3	0	0	68.3	68.4	70	N	-	-	16.0	Y	N	N
D1-7d-1	12	50.4	D1-7d	-	52.5	0	0	0	68	0	0	68	68.1	70	N	-	-	15.6	Y	N	N
D1-7d-1	13	53.6	D1-7d	-	52.5	0	0	0	67.7	0	0	67.7	67.9	70	N	-	-	15.4	Y	N	N
D1-7d-1	14	56.8	D1-7d	-	52.6	0	0	0	67.5	0	0	67.5	67.6	70	N	-	-	15.0	Y	N	N
D1-7d-1	15	60	D1-7d	-	52.6	0	0	0	67.3	0	0	67.3	67.4	70	N	-	-	14.8	Y	N	N
D1-7d-1	16	63.2	D1-7d	-	52.5	0	0	0	67.1	0	0	67.1	67.2	70	N	-	-	14.7	Y	N	N
D1-7d-1	17	66.4	D1-7d	-	52.5	0	0	0	66.8	0	0	66.8	67.0	70	N	-	-	14.5	Y	N	N
D1-7d-1	18	69.6	D1-7d	-	52.5	0	0	0	66.6	0	0	66.6	66.8	70	N	-	-	14.3	Y	N	N
D1-7d-1	19	72.8	D1-7d	-	52.5	0	0	0	66.4	0	0	66.4	66.6	70	N	-	-	14.1	Y	N	N
D1-7d-1	20	76	D1-7d	-	52.5	0	0	0	66.2	0	0	66.2	66.4	70	N	-	-	13.9	Y	N	N
D1-7d-2	1	15.2	D1-7d	-	36.9	0	56.5	44.5	71.3	0	0	71.4	71.4	70	Y	-	-	34.5	Y	Y	Y
D1-7d-2	2	18.4	D1-7d	-	36.9	0	56.5	44.5	70.9	0	0	71.1	71.1	70	Y	-	-	34.2	Y	Y	Y
D1-7d-2	3	21.6	D1-7d	-	36.9	0	56.6	44.5	70.6	0	0	70.8	70.8	70	Y	-	-	33.9	Y	Y	Y
D1-7d-2	4	24.8	D1-7d	-	36.9	0	56.7	44.5	70.2	0	0	70.4	70.4	70	N	-	-	33.5	Y	N	N
D1-7d-2	5	28	D1-7d	-	36.9	0	56.9	44.5	69.8	0	0	70	70.0	70	N	-	-	33.1	Y	N	N
D1-7d-2	6	31.2	D1-7d	-	36.8	0	57.1	44.5	69.4	0	0	69.7	69.7	70	N	-	-	32.9	Y	N	N
D1-7d-2	7	34.4	D1-7d	-	36.8	0	57.2	44.5	69.1	0	0	69.3	69.4	70	N	-	-	32.6	Y	N	N
D1-7d-2	8	37.6	D1-7d	-	36.8	0	57.4	44.5	68.7	0	0	69	69.0	70	N	-	-	32.2	Y	N	N
D1-7d-2	9	40.8	D1-7d	-	36.8	0	57.6	44.5	68.4	0	0	68.7	68.7	70	N	-	-	31.9	Y	N	N
D1-7d-2	10	44	D1-7d	-	36.7	0	57.7	44.5	68.1	0	0	68.5	68.5	70	N	-	-	31.8	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)															
D1-7d-2	11	47.2	D1-7d	-	36.7	0	57.8	44.5	67.8	0	0	68.2	68.2	70	N	-	-	31.5	Y	N	N
D1-7d-2	12	50.4	D1-7d	-	36.6	0	57.9	44.5	67.5	0	0	68	68.0	70	N	-	-	31.4	Y	N	N
D1-7d-2	13	53.6	D1-7d	-	36.6	0	58	44.5	67.2	0	0	67.7	67.8	70	N	-	-	31.2	Y	N	N
D1-7d-2	14	56.8	D1-7d	-	36.5	0	58.1	44.4	67	0	0	67.5	67.5	70	N	-	-	31.0	Y	N	N
D1-7d-2	15	60	D1-7d	-	36.5	0	58.2	44.4	66.8	0	0	67.3	67.4	70	N	-	-	30.9	Y	N	N
D1-7d-2	16	63.2	D1-7d	-	36.4	0	58.3	44.4	66.5	0	0	67.2	67.2	70	N	-	-	30.8	Y	N	N
D1-7d-2	17	66.4	D1-7d	-	36.4	0	58.4	44.4	66.3	0	0	67	67.0	70	N	-	-	30.6	Y	N	N
D1-7d-2	18	69.6	D1-7d	-	36.3	0	58.5	44.4	66.1	0	0	66.8	66.8	70	N	-	-	30.5	Y	N	N
D1-7d-2	19	72.8	D1-7d	-	36.3	0	58.5	44.4	65.9	0	0	66.7	66.7	70	N	-	-	30.4	Y	N	N
D1-7d-2	20	76	D1-7d	-	36.2	0	58.7	44.4	65.7	0	0	66.5	66.5	70	N	-	-	30.3	Y	N	N
D1-7d-3	1	15.2	D1-7d	-	38.5	0	65.4	56.1	69.8	0	0	71.3	71.3	70	Y	-	-	32.8	Y	Y	Y
D1-7d-3	2	18.4	D1-7d	-	38.5	0	65.3	56.1	69.7	0	0	71.2	71.2	70	Y	-	-	32.7	Y	Y	Y
D1-7d-3	3	21.6	D1-7d	-	38.5	0	65.4	56	69.5	0	0	71	71.0	70	Y	-	-	32.5	Y	Y	Y
D1-7d-3	4	24.8	D1-7d	-	38.5	0	65.3	56	69.3	0	0	70.9	70.9	70	Y	-	-	32.4	Y	Y	Y
D1-7d-3	5	28	D1-7d	-	38.4	0	65.3	55.9	69.1	0	0	70.7	70.7	70	Y	-	-	32.3	Y	Y	Y
D1-7d-3	6	31.2	D1-7d	-	38.4	0	65.3	55.9	68.8	0	0	70.6	70.6	70	Y	-	-	32.2	Y	Y	Y
D1-7d-3	7	34.4	D1-7d	-	38.4	0	65.3	55.8	68.6	0	0	70.4	70.4	70	N	-	-	32.0	Y	N	N
D1-7d-3	8	37.6	D1-7d	-	38.4	0	65.2	55.8	68.3	0	0	70.2	70.2	70	N	-	-	31.8	Y	N	N
D1-7d-3	9	40.8	D1-7d	-	38.4	0	65.2	55.7	68.1	0	0	70.1	70.1	70	N	-	-	31.7	Y	N	N
D1-7d-3	10	44	D1-7d	-	38.4	0	65.2	55.7	67.9	0	0	69.9	69.9	70	N	-	-	31.5	Y	N	N
D1-7d-3	11	47.2	D1-7d	-	38.3	0	65.1	55.6	67.6	0	0	69.7	69.7	70	N	-	-	31.4	Y	N	N
D1-7d-3	12	50.4	D1-7d	-	38.3	0	65.1	55.5	67.4	0	0	69.6	69.6	70	N	-	-	31.3	Y	N	N
D1-7d-3	13	53.6	D1-7d	-	38.3	0	65.1	55.4	67.2	0	0	69.4	69.4	70	N	-	-	31.1	Y	N	N
D1-7d-3	14	56.8	D1-7d	-	38.3	0	65	55.3	67	0	0	69.3	69.3	70	N	-	-	31.0	Y	N	N
D1-7d-3	15	60	D1-7d	-	38.3	0	65	55.2	66.8	0	0	69.2	69.2	70	N	-	-	30.9	Y	N	N
D1-7d-3	16	63.2	D1-7d	-	38.3	0	64.9	55.1	66.5	0	0	69	69.0	70	N	-	-	30.7	Y	N	N
D1-7d-3	17	66.4	D1-7d	-	38.3	0	64.9	55	66.4	0	0	68.9	68.9	70	N	-	-	30.6	Y	N	N
D1-7d-3	18	69.6	D1-7d	-	38.3	0	64.9	54.9	66.2	0	0	68.8	68.8	70	N	-	-	30.5	Y	N	N
D1-7d-3	19	72.8	D1-7d	-	38.4	0	64.8	54.9	66	0	0	68.6	68.6	70	N	-	-	30.2	Y	N	N
D1-7d-3	20	76	D1-7d	-	38.4	0	64.8	54.8	65.8	0	0	68.5	68.5	70	N	-	-	30.1	Y	N	N
D1-7d-4	1	15.2	D1-7d	-	38.2	0	68.2	56.9	66.8	0	0	70.7	70.8	70	Y	-	-	32.6	Y	Y	Y
D1-7d-4	2	18.4	D1-7d	-	38.2	0	68.2	56.8	66.7	0	0	70.7	70.7	70	Y	-	-	32.5	Y	Y	Y
D1-7d-4	3	21.6	D1-7d	-	38.2	0	68.1	56.7	66.6	0	0	70.6	70.6	70	Y	-	-	32.4	Y	Y	Y
D1-7d-4	4	24.8	D1-7d	-	38.2	0	68.1	56.6	66.5	0	0	70.6	70.6	70	Y	-	-	32.4	Y	Y	Y
D1-7d-4	5	28	D1-7d	-	38.2	0	68	56.5	66.4	0	0	70.5	70.5	70	Y	-	-	32.3	Y	Y	Y
D1-7d-4	6	31.2	D1-7d	-	38.2	0	67.9	56.4	66.2	0	0	70.4	70.4	70	N	-	-	32.2	Y	N	N
D1-7d-4	7	34.4	D1-7d	-	38.1	0	67.9	56.3	66.1	0	0	70.3	70.3	70	N	-	-	32.2	Y	N	N
D1-7d-4	8	37.6	D1-7d	-	38.1	0	67.8	56.2	65.9	0	0	70.2	70.2	70	N	-	-	32.1	Y	N	N
D1-7d-4	9	40.8	D1-7d	-	38.1	0	67.8	56.1	65.8	0	0	70.1	70.1	70	N	-	-	32.0	Y	N	N
D1-7d-4	10	44	D1-7d	-	38.1	0	67.7	56	65.6	0	0	69.9	70.0	70	N	-	-	31.9	Y	N	N
D1-7d-4	11	47.2	D1-7d	-	38.1	0	67.6	55.9	65.4	0	0	69.9	69.9	70	N	-	-	31.8	Y	N	N
D1-7d-4	12	50.4	D1-7d	-	38.1	0	67.5	55.8	65.2	0	0	69.7	69.7	70	N	-	-	31.6	Y	N	N
D1-7d-4	13	53.6	D1-7d	-	38.1	0	67.5	55.7	65.1	0	0	69.6	69.6	70	N	-	-	31.5	Y	N	N
D1-7d-4	14	56.8	D1-7d	-	38.1	0	67.4	55.6	64.9	0	0	69.5	69.5	70	N	-	-	31.4	Y	N	N
D1-7d-4	15	60	D1-7d	-	38.1	0	67.3	55.5	64.7	0	0	69.4	69.4	70	N	-	-	31.3	Y	N	N
D1-7d-4	16	63.2	D1-7d	-	38.1	0	67.3	55.4	64.6	0	0	69.3	69.3	70	N	-	-	31.2	Y	N	N
D1-7d-4	17	66.4	D1-7d	-	38	0	67.2	55.3	64.4	0	0	69.2	69.2	70	N	-	-	31.2	Y	N	N
D1-7d-4	18	69.6	D1-7d	-	38	0	67.1	55.2	64.2	0	0	69.1	69.1	70	N	-	-	31.1	Y	N	N
D1-7d-4	19	72.8	D1-7d	-	38	0	67.1	55.1	64.1	0	0	69	69.0	70	N	-	-	31.0	Y	N	N
D1-7d-4	20	76	D1-7d	-	38	0	67.1	55	63.9	0	0	69	69.0	70	N	-	-	31.0	Y	N	N
D1-11a-1	1	23.2	D1-11a	-	0	0	58.7	71.1	50.7	0	0	71.4	71.4	70	Y	-	-	71.4	Y	Y	Y
D1-11a-1	2	26.4	D1-11a	-	0	0	58.7	71.5	50.7	0	0	71.7	71.7	70	Y	-	-	71.7	Y	Y	Y
D1-11a-1	3	29.6	D1-11a	-	0	0	58.7	71.5	50.8	0	0	71.8	71.8	70	Y	-	-	71.8	Y	Y	Y
D1-11a-1	4	32.8	D1-11a	-	0	0	58.6	71.5	50.7	0	0	71.7	71.7	70	Y	-	-	71.7	Y	Y	Y
D1-11a-1	5	36	D1-11a	-	0	0	58.7	71.4	50.8	0	0	71.6	71.6	70	Y	-	-	71.6	Y	Y	Y
D1-11a-1	6	39.2	D1-11a	-	0	0	58.7	71.2	50.7	0	0	71.5	71.5	70	Y	-	-	71.5	Y	Y	Y
D1-11a-1	7	42.4	D1-11a	-	0	0	58.7	71.1	50.7	0	0	71.4	71.4	70	Y	-	-	71.4	Y	Y	Y
D1-11a-1	8	45.6	D1-11a	-	0	0	58.7	70.9	50.7	0	0	71.2	71.2	70	Y	-	-	71.2	Y	Y	Y
D1-11a-1	9	48.8	D1-11a	-	0	0	58.9	70.7	50.6	0	0	71	71.0	70	Y	-	-	71.0	Y	Y	Y
D1-11a-1	10	52	D1-11a	-	0	0	58.9	70.6	50.6	0	0	70.9	70.9	70	Y	-	-	70.9	Y	Y	Y
D1-11a-1	11	55.2	D1-11a	-	0	0	59.1	70.4	50.5	0	0	70.7	70.7	70	Y	-	-	70.7	Y	Y	Y
D1-11a-1	12	58.4	D1-11a	-	0	0	59	70.2	50.5	0	0	70.6	70.6	70	Y	-	-	70.6	Y	Y	Y
D1-11a-1	13	61.6	D1-11a	-	0	0	59.1	70.1	50.4	0	0	70.4	70.4	70	N	-	-	70.4	Y	N	N
D1-11a-1	14	64.8	D1-11a	-	0	0	59.1	69.9	50.4	0	0	70.3	70.3	70	N	-	-	70.3	Y	N	N
D1-11a-1	15	68	D1-11a	-	0	0	59.1	69.8	50.3	0	0	70.2	70.2	70	N	-	-	70.2	Y	N	N
D1-11a-1	16	71.2	D1-11a	-	0	0	59	69.6	50.2	0	0	70	70.0	70	N	-	-	70.0	Y	N	N
D1-11a-1	17	74.4	D1-11a	-	0	0	59	69.5	50.1	0	0	69.9	69.9	70	N	-	-	69.9	Y	N	N
D1-11a-1	18	77.6	D1-11a	-	0	0	59	69.3	50.1	0	0	69.8	69.8	70	N	-	-	69.8	Y	N	N
D1-11a-1	19	80.8	D1-11a	-	0	0	59	69.2	50	0	0	69.6	69.6	70	N	-	-	69.6	Y	N	N
D1-11a-1	20	84	D1-11a	-	0	0	58.9	69.1	49.9	0	0	69.5	69.5	70	N	-	-	69.5	Y	N	N
D1-11a-1	21	87.2	D1-11a	-	0	0	58.9	68.9	49.9	0	0	69.4	69.4	70	N	-	-	69.4	Y	N	N
D1-11a-1	22	90.4	D1-11a	-	0	0	58.9	68.8	49.8	0	0	69.3	69.3	70	N	-	-	69.3	Y	N	N
D1-11a-2	1	23.2	D1-11a	-	0	0	60.8	72	55.1	0	0	72.4	72.4	70	Y	-	-	72.4	Y	Y	Y
D1-11a-2	2	26.4	D1-11a	-	0	0	60.8	72.2	55.1	0	0	72.6	72.6	70	Y	-	-	72.6	Y	Y	Y
D1-11a-2	3	29.6	D1-11a	-	0	0	60.8	72.2	55	0	0	72.6	72.6	70	Y	-	-	72.6	Y	Y	Y
D1-11a-2	4	32.8	D1-11a	-	0	0	60.8	72.1	55	0	0	72.5	72.5	70	Y	-	-	72.5	Y	Y	Y
D1-11a-2	5	36	D1-11a	-	0	0	60.8	72	54.9	0	0	72.4	72.4	70	Y	-	-	72.4	Y	Y	Y
D1-11a-2	6	39.2	D1-11a	-	0	0	60.9	71.9	54.8	0	0	72.3	72.3	70	Y	-	-	72.3	Y	Y	Y
D1-11a-2	7	42.4	D1-11a	-	0	0	61.1	71.8	54.8	0	0	72.2	72.2	70	Y	-	-	72.2	Y	Y	Y
D1-11a-2	8	45.6	D1-11a	-	0	0	61.3	71.6	54.7	0	0	72.1	72.1	70	Y	-	-	72.1	Y	Y	Y
D1-11a-2	9	48.8	D1-11a	-	0	0	61.5	71.4	54.5	0	0	71.9	71.9	70	Y	-	-	71.9	Y	Y	Y
D1-11a-2	10	52	D1-11a	-	0	0	61.5	71.3	54.4	0	0	71.8	71.8	70	Y	-	-	71.8	Y	Y	Y
D1-11a-2	11	55.2	D1-11a	-	0	0	61.6	71.1	54.3	0	0	71.6	71.6	70	Y	-	-	71.6	Y	Y	Y
D1-11a-2	12	58.4	D1-11a	-	0	0	61.6	70.9	54.2	0	0	71.5	71.5	70	Y	-	-	71.5	Y	Y	Y
D1-11a-2	13	61.6	D1-11a	-	0	0	61.6	70.8	54.1	0	0	71.3	71.3	70	Y	-	-	71.3	Y	Y	Y
D1-11a-2	14	64.8	D1-11a	-	0	0	61.5	70.6	54	0	0	71.2	71.2	70	Y	-	-	71.2	Y	Y	Y
D1-11a-2	15	68	D1-11a	-	0	0	61.6	70.5	53.9	0	0	71.1	71.1	70	Y	-	-	71.1	Y	Y	Y
D1-11a-2	16	71.2	D1-11a	-	0	0	61.6	70.3	53.7	0	0	70.9	70.9	70	Y	-	-	70.9	Y	Y	Y
D1-11a-2	17	74.4	D1-11a	-	0	0	61.5	70.1	53.6	0	0	70.8	70.8	70	Y	-	-	70.8	Y	Y	Y
D1-11a-2	18	77.6	D1-11a	-	0	0	61.6	70	53.5	0	0	70.7	70.7	70	Y	-	-	70.7	Y	Y	Y

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)									Check Project Impact Significance		Check Direct Mitigation			
D1-11a-2	19	80.8	D1-11a	-	0	0	61.6	69.8	53.4	0	0	70.5	70.5	70	Y	-	-	70.5	Y	Y	Y
D1-11a-2	20	84	D1-11a	-	0	0	61.6	69.7	53.3	0	0	70.4	70.4	70	N	-	-	70.4	Y	N	N
D1-11a-2	21	87.2	D1-11a	-	0	0	61.6	69.6	53.2	0	0	70.3	70.3	70	N	-	-	70.3	Y	N	N
D1-11a-2	22	90.4	D1-11a	-	0	0	61.6	69.4	53.1	0	0	70.2	70.2	70	N	-	-	70.2	Y	N	N
D1-11a-3	1	23.2	D1-11a	-	15.9	0	61.6	69.9	64.8	0	0	71.5	71.5	70	Y	-	-	55.6	Y	Y	Y
D1-11a-3	2	26.4	D1-11a	-	16.5	0	61.6	69.9	64.7	0	0	71.5	71.5	70	Y	-	-	55.0	Y	Y	Y
D1-11a-3	3	29.6	D1-11a	-	17	0	61.8	69.9	64.6	0	0	71.5	71.5	70	Y	-	-	54.5	Y	Y	Y
D1-11a-3	4	32.8	D1-11a	-	17.6	0	62.1	69.8	64.4	0	0	71.5	71.5	70	Y	-	-	53.9	Y	Y	Y
D1-11a-3	5	36	D1-11a	-	18.2	0	62.3	69.7	64.3	0	0	71.4	71.4	70	Y	-	-	53.2	Y	Y	Y
D1-11a-3	6	39.2	D1-11a	-	18.8	0	62.7	69.6	64.1	0	0	71.3	71.3	70	Y	-	-	52.5	Y	Y	Y
D1-11a-3	7	42.4	D1-11a	-	19.4	0	63.1	69.5	63.9	0	0	71.3	71.3	70	Y	-	-	51.9	Y	Y	Y
D1-11a-3	8	45.6	D1-11a	-	19.9	0	63.5	69.4	63.8	0	0	71.2	71.2	70	Y	-	-	51.3	Y	Y	Y
D1-11a-3	9	48.8	D1-11a	-	20.5	0	63.8	69.2	63.6	0	0	71.2	71.2	70	Y	-	-	50.7	Y	Y	Y
D1-11a-3	10	52	D1-11a	-	21.2	0	63.9	69.1	63.4	0	0	71.1	71.1	70	Y	-	-	49.9	Y	Y	Y
D1-11a-3	11	55.2	D1-11a	-	22	0	64	69	63.2	0	0	71	71.0	70	Y	-	-	49.0	Y	Y	Y
D1-11a-3	12	58.4	D1-11a	-	22.6	0	64	68.8	63.1	0	0	70.9	70.9	70	Y	-	-	48.3	Y	Y	Y
D1-11a-3	13	61.6	D1-11a	-	23.3	0	64	68.7	62.9	0	0	70.7	70.7	70	Y	-	-	47.4	Y	Y	Y
D1-11a-3	14	64.8	D1-11a	-	24.1	0	64	68.5	62.7	0	0	70.6	70.6	70	Y	-	-	46.5	Y	Y	Y
D1-11a-3	15	68	D1-11a	-	24.8	0	64.1	68.4	62.6	0	0	70.5	70.5	70	Y	-	-	45.7	Y	Y	Y
D1-11a-3	16	71.2	D1-11a	-	25.6	0	64.1	68.3	62.4	0	0	70.4	70.4	70	N	-	-	44.8	Y	N	N
D1-11a-3	17	74.4	D1-11a	-	26.4	0	64.1	68.1	62.2	0	0	70.3	70.3	70	N	-	-	43.9	Y	N	N
D1-11a-3	18	77.6	D1-11a	-	27.2	0	64.2	68	62.1	0	0	70.2	70.2	70	N	-	-	43.0	Y	N	N
D1-11a-3	19	80.8	D1-11a	-	28.2	0	64.2	67.8	61.9	0	0	70.1	70.1	70	N	-	-	41.9	Y	N	N
D1-11a-3	20	84	D1-11a	-	29.3	0	64.2	67.7	61.8	0	0	70	70.0	70	N	-	-	40.7	Y	N	N
D1-11a-3	21	87.2	D1-11a	-	30.9	0	64.2	67.6	61.6	0	0	69.9	69.9	70	N	-	-	39.0	Y	N	N
D1-11a-3	22	90.4	D1-11a	-	31.7	0	64.2	67.4	61.5	0	0	69.8	69.8	70	N	-	-	38.1	Y	N	N
D1-11a-4	1	23.2	D1-11a	-	28.1	0	55.2	63.8	66.5	0	0	68.5	68.5	70	N	-	-	40.4	Y	N	N
D1-11a-4	2	26.4	D1-11a	-	28.7	0	55.3	63.8	66.4	0	0	68.5	68.5	70	N	-	-	39.8	Y	N	N
D1-11a-4	3	29.6	D1-11a	-	29.4	0	55.4	63.7	66.2	0	0	68.4	68.4	70	N	-	-	39.0	Y	N	N
D1-11a-4	4	32.8	D1-11a	-	30.1	0	55.5	63.7	66.1	0	0	68.3	68.3	70	N	-	-	38.2	Y	N	N
D1-11a-4	5	36	D1-11a	-	30.9	0	55.6	63.7	65.9	0	0	68.2	68.2	70	N	-	-	37.3	Y	N	N
D1-11a-4	6	39.2	D1-11a	-	31.7	0	55.7	63.6	65.7	0	0	68.1	68.1	70	N	-	-	36.4	Y	N	N
D1-11a-4	7	42.4	D1-11a	-	32.7	0	55.9	63.5	65.5	0	0	67.9	67.9	70	N	-	-	35.2	Y	N	N
D1-11a-4	8	45.6	D1-11a	-	33.6	0	56.1	63.5	65.3	0	0	67.8	67.8	70	N	-	-	34.2	Y	N	N
D1-11a-4	9	48.8	D1-11a	-	34.6	0	56.5	63.4	65.1	0	0	67.7	67.7	70	N	-	-	33.1	Y	N	N
D1-11a-4	10	52	D1-11a	-	35.8	0	57	63.4	64.9	0	0	67.6	67.6	70	N	-	-	31.8	Y	N	N
D1-11a-4	11	55.2	D1-11a	-	36.6	0	57.2	63.3	64.7	0	0	67.5	67.5	70	N	-	-	30.9	Y	N	N
D1-11a-4	12	58.4	D1-11a	-	37.6	0	57.8	63.2	64.5	0	0	67.4	67.4	70	N	-	-	29.8	Y	N	N
D1-11a-4	13	61.6	D1-11a	-	38.3	0	58.4	63.1	64.3	0	0	67.3	67.3	70	N	-	-	29.0	Y	N	N
D1-11a-4	14	64.8	D1-11a	-	39	0	58.8	63.1	64	0	0	67.3	67.3	70	N	-	-	28.3	Y	N	N
D1-11a-4	15	68	D1-11a	-	39.7	0	59.1	63	63.8	0	0	67.2	67.2	70	N	-	-	27.5	Y	N	N
D1-11a-4	16	71.2	D1-11a	-	40.4	0	59.3	62.9	63.7	0	0	67.1	67.1	70	N	-	-	26.7	Y	N	N
D1-11a-4	17	74.4	D1-11a	-	41	0	59.5	62.8	63.5	0	0	67	67.0	70	N	-	-	26.0	Y	N	N
D1-11a-4	18	77.6	D1-11a	-	41.5	0	59.6	62.7	63.3	0	0	66.9	66.9	70	N	-	-	25.4	Y	N	N
D1-11a-4	19	80.8	D1-11a	-	42.1	0	59.6	62.6	63.1	0	0	66.8	66.8	70	N	-	-	24.7	Y	N	N
D1-11a-4	20	84	D1-11a	-	42.7	0	59.7	62.6	63	0	0	66.7	66.8	70	N	-	-	24.1	Y	N	N
D1-11a-4	21	87.2	D1-11a	-	43.3	0	59.6	62.5	62.8	0	0	66.6	66.7	70	N	-	-	23.4	Y	N	N
D1-11a-4	22	90.4	D1-11a	-	43.8	0	59.7	62.4	62.6	0	0	66.6	66.6	70	N	-	-	22.8	Y	N	N
D1-11a-5	1	23.2	D1-11a	-	31.5	0	31.1	0	68.7	0	0	68.7	68.7	70	N	-	-	37.2	Y	N	N
D1-11a-5	2	26.4	D1-11a	-	33	0	31.1	0	68.2	0	0	68.2	68.2	70	N	-	-	35.2	Y	N	N
D1-11a-5	3	29.6	D1-11a	-	36	0	31.1	0	67.6	0	0	67.6	67.6	70	N	-	-	31.6	Y	N	N
D1-11a-5	4	32.8	D1-11a	-	40.5	0	31.1	0	67.1	0	0	67.1	67.1	70	N	-	-	26.6	Y	N	N
D1-11a-5	5	36	D1-11a	-	41.7	0	31	0	66.8	0	0	66.8	66.8	70	N	-	-	25.1	Y	N	N
D1-11a-5	6	39.2	D1-11a	-	42.2	0	31	0	66.3	0	0	66.3	66.3	70	N	-	-	24.1	Y	N	N
D1-11a-5	7	42.4	D1-11a	-	42.7	0	31	0	66	0	0	66	66.1	70	N	-	-	23.4	Y	N	N
D1-11a-5	8	45.6	D1-11a	-	43.2	0	31	0	65.7	0	0	65.7	65.7	70	N	-	-	22.5	Y	N	N
D1-11a-5	9	48.8	D1-11a	-	44	0	30.9	0	65.4	0	0	65.4	65.4	70	N	-	-	21.4	Y	N	N
D1-11a-5	10	52	D1-11a	-	45	0	30.9	0	65.1	0	0	65.1	65.2	70	N	-	-	20.2	Y	N	N
D1-11a-5	11	55.2	D1-11a	-	46	0	30.9	0	64.9	0	0	64.9	64.9	70	N	-	-	18.9	Y	N	N
D1-11a-5	12	58.4	D1-11a	-	47.1	0	30.8	0	64.6	0	0	64.7	64.7	70	N	-	-	17.6	Y	N	N
D1-11a-5	13	61.6	D1-11a	-	48.1	0	30.8	0	64.4	0	0	64.4	64.5	70	N	-	-	16.4	Y	N	N
D1-11a-5	14	64.8	D1-11a	-	49	0	30.8	0	64.2	0	0	64.2	64.3	70	N	-	-	15.3	Y	N	N
D1-11a-5	15	68	D1-11a	-	49.5	0	30.7	0	64	0	0	64	64.1	70	N	-	-	14.6	Y	N	N
D1-11a-5	16	71.2	D1-11a	-	49.7	0	30.7	0	63.8	0	0	63.8	64.0	70	N	-	-	14.3	Y	N	N
D1-11a-5	17	74.4	D1-11a	-	49.8	0	30.8	0	63.6	0	0	63.6	63.8	70	N	-	-	14.0	Y	N	N
D1-11a-5	18	77.6	D1-11a	-	49.9	0	30.9	0	63.4	0	0	63.4	63.6	70	N	-	-	13.7	Y	N	N
D1-11a-5	19	80.8	D1-11a	-	50	0	31	0	63.2	0	0	63.2	63.4	70	N	-	-	13.4	Y	N	N
D1-11a-5	20	84	D1-11a	-	50.1	0	31.2	0	63.1	0	0	63.1	63.3	70	N	-	-	13.2	Y	N	N
D1-11a-5	21	87.2	D1-11a	-	50.2	0	31.3	0	62.9	0	0	62.9	63.1	70	N	-	-	12.9	Y	N	N
D1-11a-5	22	90.4	D1-11a	-	50.3	0	31.6	0	62.8	0	0	62.8	63.0	70	N	-	-	12.7	Y	N	N
D1-11a-6	1	23.2	D1-11a	-	29.9	0	24.9	23.7	65.5	0	0	65.5	65.5	70	N	-	-	35.6	Y	N	N
D1-11a-6	2	26.4	D1-11a	-	31.5	0	24.9	23.7	65.6	0	0	65.6	65.6	70	N	-	-	34.1	Y	N	N
D1-11a-6	3	29.6	D1-11a	-	33.7	0	24.9	23.7	65.6	0	0	65.6	65.6	70	N	-	-	31.9	Y	N	N
D1-11a-6	4	32.8	D1-11a	-	36.9	0	24.9	23.6	65.4	0	0	65.4	65.4	70	N	-	-	28.5	Y	N	N
D1-11a-6	5	36	D1-11a	-	41.5	0	24.9	23.6	65.2	0	0	65.2	65.2	70	N	-	-	23.7	Y	N	N
D1-11a-6	6	39.2	D1-11a	-	43.1	0	24.8	23.5	65	0	0	65	65.0	70	N	-	-	21.9	Y	N	N
D1-11a-6	7	42.4	D1-11a	-	43.5	0	24.8	23.5	64.7	0	0	64.7	64.7	70	N	-	-	21.2	Y	N	N
D1-11a-6	8	45.6	D1-11a	-	43.5	0	24.8	23.4	64.5	0	0	64.5	64.5	70	N	-	-	21.0	Y	N	N
D1-11a-6	9	48.8	D1-11a	-	43.6	0	24.8	23.3	64.2	0	0	64.2	64.2	70	N	-	-	20.6	Y	N	N
D1-11a-6	10	52	D1-11a	-	43.6	0	24.7	23.3	64	0	0	64	64.0	70	N	-	-	20.4	Y	N	N
D1-11a-6	11	55.2	D1-11a	-	43.7	0	24.7	23.2	63.7	0	0	63.7	63.8	70	N	-	-	20.1	Y	N	N
D1-11a-6	12	58.4	D1-11a	-	43.9	0	24.7	23.2	63.5	0	0	63.5	63.6	70	N	-	-	19.7	Y	N	N
D1-11a-6	13	61.6	D1-11a	-	44	0	24.6	23.1	63.3	0	0	63.3	63.3	70	N	-	-	19.3	Y	N	N
D1-11a-6	14	64.8	D1-11a	-	44.2	0	24.7	23	63.1	0	0	63.1	63.2	70	N	-	-	19.0	Y	N	N
D1-11a-6	15	68	D1-11a	-	44.5	0	24.6	23	62.9	0	0	62.9	62.9	70	N	-	-	18.4	Y	N	N
D1-11a-6	16	71.2	D1-11a	-	44.8	0	24.7	22.9	62.7	0	0	62.7	62.8	70	N	-	-	18.0	Y	N	N
D1-11a-6	17	74.4	D1-11a	-	45.1	0	24.9	23.2	62.5	0	0	62.5	62.6	70	N	-	-	17.5	Y	N	N
D1-11a-6	18	77.6	D1-11a	-	45.5	0	25.3	23.5	62.4	0	0	62.4	62.5	70	N	-	-	17.0	Y	N	N
D1-11a-6	19	80.8	D1-11a	-	45.9	0	25.7	24	62.2	0	0	62.2	62.3	70	N	-	-	16.4	Y	N	N
D1-11a-6	20	84	D1-11a	-	46.1	0	25.9	24.6	62	0	0	62	62.2	70	N	-	-	16.1	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	New Roads[2]						Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]				C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)														
D1-11a-6	21	87.2	D1-11a	-	46.3	0	26.2	25.6	61.9	0	0	61.9	62.0	70	N	-	-	15.7	Y	N	N
D1-11a-6	22	90.4	D1-11a	-	46.5	0	26.6	26.9	61.7	0	0	61.7	61.9	70	N	-	-	15.4	Y	N	N
D1-11b-1	1	25.2	D1-11b	-	0	0	0	66.3	14	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
D1-11b-1	2	28.4	D1-11b	-	0	0	0	67.1	14.8	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
D1-11b-1	3	31.6	D1-11b	-	0	0	0	67.5	15.6	0	0	67.5	67.5	70	N	-	-	67.5	Y	N	N
D1-11b-1	4	34.8	D1-11b	-	0	0	0	67.6	16.5	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
D1-11b-1	5	38	D1-11b	-	0	0	0	67.7	17.4	0	0	67.7	67.7	70	N	-	-	67.7	Y	N	N
D1-11b-1	6	41.2	D1-11b	-	0	0	0	67.6	18.4	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
D1-11b-1	7	44.4	D1-11b	-	0	0	0	67.5	19.5	0	0	67.5	67.5	70	N	-	-	67.5	Y	N	N
D1-11b-1	8	47.6	D1-11b	-	0	0	0	67.4	20.7	0	0	67.4	67.4	70	N	-	-	67.4	Y	N	N
D1-11b-1	9	50.8	D1-11b	-	0	0	0	67.2	21.9	0	0	67.2	67.2	70	N	-	-	67.2	Y	N	N
D1-11b-1	10	54	D1-11b	-	0	0	0	67.1	23.2	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
D1-11b-1	11	57.2	D1-11b	-	0	0	0	66.9	24.8	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
D1-11b-1	12	60.4	D1-11b	-	0	0	0	66.8	26.6	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
D1-11b-1	13	63.6	D1-11b	-	0	0	0	66.6	28.7	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
D1-11b-1	14	66.8	D1-11b	-	0	0	0	66.5	31.5	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
D1-11b-1	15	70	D1-11b	-	0	0	0	66.3	34.2	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
D1-11b-1	16	73.2	D1-11b	-	0	0	0	66.2	36	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
D1-11b-1	17	76.4	D1-11b	-	0	0	0	66	36.7	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
D1-11b-1	18	79.6	D1-11b	-	0	0	0	65.9	37	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
D1-11b-1	19	82.8	D1-11b	-	0	0	0	65.7	37.1	0	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
D1-11b-1	20	86	D1-11b	-	0	0	0	65.6	37.1	0	0	65.6	65.6	70	N	-	-	65.6	Y	N	N
D1-11b-1	21	89.2	D1-11b	-	0	0	0	65.5	37.1	0	0	65.5	65.5	70	N	-	-	65.5	Y	N	N
D1-11b-2	1	25.2	D1-11b	-	0	2.3	22.3	68.8	17.7	0	0	68.8	68.8	70	N	-	-	66.5	Y	N	N
D1-11b-2	2	28.4	D1-11b	-	0	2.2	22.2	69.4	18.1	0	0	69.4	69.4	70	N	-	-	67.2	Y	N	N
D1-11b-2	3	31.6	D1-11b	-	0	2.2	22.2	69.7	18.6	0	0	69.7	69.7	70	N	-	-	67.5	Y	N	N
D1-11b-2	4	34.8	D1-11b	-	0	2.3	22.2	69.7	19.2	0	0	69.7	69.7	70	N	-	-	67.4	Y	N	N
D1-11b-2	5	38	D1-11b	-	0	2.3	22.2	69.7	19.9	0	0	69.7	69.7	70	N	-	-	67.4	Y	N	N
D1-11b-2	6	41.2	D1-11b	-	0	2.3	22.2	69.5	20.6	0	0	69.5	69.5	70	N	-	-	67.2	Y	N	N
D1-11b-2	7	44.4	D1-11b	-	0	2.3	22.2	69.4	21.5	0	0	69.4	69.4	70	N	-	-	67.1	Y	N	N
D1-11b-2	8	47.6	D1-11b	-	0	2.3	22.2	69.2	22.4	0	0	69.2	69.2	70	N	-	-	66.9	Y	N	N
D1-11b-2	9	50.8	D1-11b	-	0	2.4	22.2	69.1	23.6	0	0	69.1	69.1	70	N	-	-	66.7	Y	N	N
D1-11b-2	10	54	D1-11b	-	0	2.4	22.2	68.9	24.8	0	0	68.9	68.9	70	N	-	-	66.5	Y	N	N
D1-11b-2	11	57.2	D1-11b	-	0	2.4	22.1	68.7	26.3	0	0	68.7	68.7	70	N	-	-	66.3	Y	N	N
D1-11b-2	12	60.4	D1-11b	-	0	2.4	22.1	68.6	28.1	0	0	68.6	68.6	70	N	-	-	66.2	Y	N	N
D1-11b-2	13	63.6	D1-11b	-	0	2.4	22.1	68.4	30.5	0	0	68.4	68.4	70	N	-	-	66.0	Y	N	N
D1-11b-2	14	66.8	D1-11b	-	0	2.4	22.1	68.2	33.2	0	0	68.2	68.2	70	N	-	-	65.8	Y	N	N
D1-11b-2	15	70	D1-11b	-	0	2.4	22	68.1	35.8	0	0	68.1	68.1	70	N	-	-	65.7	Y	N	N
D1-11b-2	16	73.2	D1-11b	-	0	2.4	22	67.9	36.8	0	0	67.9	67.9	70	N	-	-	65.5	Y	N	N
D1-11b-2	17	76.4	D1-11b	-	0	2.4	22	67.8	37.2	0	0	67.8	67.8	70	N	-	-	65.4	Y	N	N
D1-11b-2	18	79.6	D1-11b	-	0	2.3	21.9	67.6	37.4	0	0	67.6	67.6	70	N	-	-	65.3	Y	N	N
D1-11b-2	19	82.8	D1-11b	-	0	2.4	22	67.5	37.4	0	0	67.5	67.5	70	N	-	-	65.1	Y	N	N
D1-11b-2	20	86	D1-11b	-	0	2.1	22.2	67.3	37.4	0	0	67.4	67.4	70	N	-	-	65.3	Y	N	N
D1-11b-2	21	89.2	D1-11b	-	0	2.3	22.4	67.2	37.3	0	0	67.2	67.2	70	N	-	-	64.9	Y	N	N
D1-11b-3	1	25.2	D1-11b	-	0	1.7	25.8	68.6	20.7	0	0	68.6	68.6	70	N	-	-	66.9	Y	N	N
D1-11b-3	2	28.4	D1-11b	-	0	1.8	25.8	69.1	21.4	0	0	69.1	69.1	70	N	-	-	67.3	Y	N	N
D1-11b-3	3	31.6	D1-11b	-	0	1.8	25.8	69.3	22.3	0	0	69.3	69.3	70	N	-	-	67.5	Y	N	N
D1-11b-3	4	34.8	D1-11b	-	0	1.8	25.7	69.4	23.4	0	0	69.4	69.4	70	N	-	-	67.6	Y	N	N
D1-11b-3	5	38	D1-11b	-	0	1.8	25.7	69.4	24.7	0	0	69.4	69.4	70	N	-	-	67.6	Y	N	N
D1-11b-3	6	41.2	D1-11b	-	0	1.9	25.7	69.3	26.6	0	0	69.3	69.3	70	N	-	-	67.4	Y	N	N
D1-11b-3	7	44.4	D1-11b	-	0	1.9	25.7	69.2	29	0	0	69.2	69.2	70	N	-	-	67.3	Y	N	N
D1-11b-3	8	47.6	D1-11b	-	0	1.8	25.7	69	32.5	0	0	69	69.0	70	N	-	-	67.2	Y	N	N
D1-11b-3	9	50.8	D1-11b	-	0	1.8	25.7	68.9	35.5	0	0	68.9	68.9	70	N	-	-	67.1	Y	N	N
D1-11b-3	10	54	D1-11b	-	0	1.9	25.6	68.7	36.7	0	0	68.8	68.8	70	N	-	-	66.9	Y	N	N
D1-11b-3	11	57.2	D1-11b	-	0	1.9	25.6	68.6	37.7	0	0	68.6	68.6	70	N	-	-	66.7	Y	N	N
D1-11b-3	12	60.4	D1-11b	-	0	1.9	25.6	68.4	38.8	0	0	68.4	68.4	70	N	-	-	66.5	Y	N	N
D1-11b-3	13	63.6	D1-11b	-	0	1.9	25.6	68.3	39.3	0	0	68.3	68.3	70	N	-	-	66.4	Y	N	N
D1-11b-3	14	66.8	D1-11b	-	0	1.9	25.5	68.1	39.4	0	0	68.2	68.2	70	N	-	-	66.3	Y	N	N
D1-11b-3	15	70	D1-11b	-	0	1.9	25.5	68	39.4	0	0	68	68.0	70	N	-	-	66.1	Y	N	N
D1-11b-3	16	73.2	D1-11b	-	0	2	25.5	67.8	39.3	0	0	67.9	67.9	70	N	-	-	65.9	Y	N	N
D1-11b-3	17	76.4	D1-11b	-	0	2	25.4	67.7	39.3	0	0	67.7	67.7	70	N	-	-	65.7	Y	N	N
D1-11b-3	18	79.6	D1-11b	-	0	2	25.5	67.6	39.2	0	0	67.6	67.6	70	N	-	-	65.6	Y	N	N
D1-11b-3	19	82.8	D1-11b	-	0	1.7	25.6	67.4	39.1	0	0	67.4	67.4	70	N	-	-	65.7	Y	N	N
D1-11b-3	20	86	D1-11b	-	0	1.8	25.8	67.3	39.1	0	0	67.3	67.3	70	N	-	-	65.5	Y	N	N
D1-11b-3	21	89.2	D1-11b	-	0	1.6	26.2	67.2	39.1	0	0	67.2	67.2	70	N	-	-	65.6	Y	N	N
D1-11b-4	1	25.2	D1-11b	-	0	0	29.6	65.6	23.4	0	0	65.6	65.6	70	N	-	-	65.6	Y	N	N
D1-11b-4	2	28.4	D1-11b	-	0	0	29.6	66.3	24	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
D1-11b-4	3	31.6	D1-11b	-	0	0	29.6	66.7	24.8	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
D1-11b-4	4	34.8	D1-11b	-	0	0	29.6	66.8	26	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
D1-11b-4	5	38	D1-11b	-	0	0	29.6	67	27.9	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
D1-11b-4	6	41.2	D1-11b	-	0	0	29.5	67	31.4	0	0	67	67.0	70	N	-	-	67.0	Y	N	N
D1-11b-4	7	44.4	D1-11b	-	0	0	29.5	66.9	34.9	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
D1-11b-4	8	47.6	D1-11b	-	0	0	29.5	66.9	36.1	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
D1-11b-4	9	50.8	D1-11b	-	0	0	29.5	66.8	36.7	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
D1-11b-4	10	54	D1-11b	-	0	0	29.4	66.7	36.8	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
D1-11b-4	11	57.2	D1-11b	-	0	0	29.4	66.6	36.9	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
D1-11b-4	12	60.4	D1-11b	-	0	0	29.4	66.5	36.9	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
D1-11b-4	13	63.6	D1-11b	-	0	0	29.3	66.3	36.9	0	0	66.4	66.4	70	N	-	-	66.4	Y	N	N
D1-11b-4	14	66.8	D1-11b	-	0	0	29.3	66.3	36.8	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
D1-11b-4	15	70	D1-11b	-	0	0	29.3	66.1	36.7	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
D1-11b-4	16	73.2	D1-11b	-	0	0	29.3	66	36.7	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
D1-11b-4	17	76.4	D1-11b	-	0	0	29.2	65.8	36.6	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
D1-11b-4	18	79.6	D1-11b	-	0	0	29.2	65.7	36.5	0	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
D1-11b-4	19	82.8	D1-11b	-	0	0	29.2	65.6	36.4	0	0	65.6	65.6	70	N	-	-	65.6	Y	N	N
D1-11b-4	20	86	D1-11b	-	0	0	29.7	65.5	36.4	0	0	65.5	65.5	70	N	-	-	65.5	Y	N	N
D1-11b-4	21	89.2	D1-11b	-	0	0	30.4	65.4	36.3	0	0	65.4	65.4	70	N	-	-	65.4	Y	N	N
D1-11b-5	1	25.2	D1-11b	-	45.8	0	44.5	0	67.1	0	0	67.2	67.2	70	N	-	-	21.4	Y	N	N
D1-11b-5	2	28.4	D1-11b	-	47.2	0	44.6	0	67.2	0	0	67.3	67.3	70	N	-	-	20.1	Y	N	N
D1-11b-5	3	31.6	D1-11b	-	49.7	0	44.6	0	67.1	0	0	67.1	67.2	70	N	-	-	17.5	Y	N	N
D1-11b-5	4	34.8	D1-11b	-	51.9	0	44.6	0	66.8	0	0	66.8	66.9	70	N	-	-	15.0	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT															
				Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	New Roads[2]					Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance		Check Direct Mitigation			At Receiver-end Mitigation Measures Required[4,5] (Y/N)
							PD	DD	LD	EX	TR				C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	
ID	Floor	Floor Level (mPD)					dB (A)					New Roads in 2046 dB(A)[3] [B]								
D1-11b-5	5	38	D1-11b	-	52.7	0	44.6	0	66.4	0	0	66.5	66.6	70	N	-	-	13.9	Y	N	N
D1-11b-5	6	41.2	D1-11b	-	52.9	0	44.6	0	66.1	0	0	66.1	66.3	70	N	-	-	13.4	Y	N	N
D1-11b-5	7	44.4	D1-11b	-	52.9	0	44.6	0	65.8	0	0	65.9	66.1	70	N	-	-	13.2	Y	N	N
D1-11b-5	8	47.6	D1-11b	-	52.9	0	44.5	0	65.5	0	0	65.5	65.8	70	N	-	-	12.9	Y	N	N
D1-11b-5	9	50.8	D1-11b	-	52.9	0	44.5	0	65.2	0	0	65.3	65.5	70	N	-	-	12.6	Y	N	N
D1-11b-5	10	54	D1-11b	-	52.8	0	44.5	0	64.9	0	0	65	65.2	70	N	-	-	12.4	Y	N	N
D1-11b-5	11	57.2	D1-11b	-	52.9	0	44.5	0	64.7	0	0	64.7	65.0	70	N	-	-	12.1	Y	N	N
D1-11b-5	12	60.4	D1-11b	-	52.8	0	44.4	0	64.4	0	0	64.4	64.7	70	N	-	-	11.9	Y	N	N
D1-11b-5	13	63.6	D1-11b	-	52.8	0	44.4	0	64.2	0	0	64.2	64.5	70	N	-	-	11.7	Y	N	N
D1-11b-5	14	66.8	D1-11b	-	52.8	0	44.4	0	63.9	0	0	63.9	64.3	70	N	-	-	11.5	Y	N	N
D1-11b-5	15	70	D1-11b	-	52.7	0	44.4	0	63.7	0	0	63.8	64.1	70	N	-	-	11.4	Y	N	N
D1-11b-5	16	73.2	D1-11b	-	52.7	0	44.3	0	63.5	0	0	63.5	63.9	70	N	-	-	11.2	Y	N	N
D1-11b-5	17	76.4	D1-11b	-	52.7	0	44.3	0	63.3	0	0	63.3	63.7	70	N	-	-	11.0	Y	N	N
D1-11b-5	18	79.6	D1-11b	-	52.6	0	44.3	0	63.1	0	0	63.2	63.5	70	N	-	-	10.9	Y	N	N
D1-11b-5	19	82.8	D1-11b	-	52.6	0	44.2	0	62.9	0	0	63	63.3	70	N	-	-	10.7	Y	N	N
D1-11b-5	20	86	D1-11b	-	52.6	0	44.3	0	62.7	0	0	62.8	63.2	70	N	-	-	10.6	Y	N	N
D1-11b-5	21	89.2	D1-11b	-	52.5	0	44.2	0	62.6	0	0	62.6	63.0	70	N	-	-	10.5	Y	N	N
D1-11b-6	1	25.2	D1-11b	-	48.4	0	43.7	0	64.5	0	0	64.6	64.7	70	N	-	-	16.3	Y	N	N
D1-11b-6	2	28.4	D1-11b	-	52.4	0	44	0	65.6	0	0	65.6	65.8	70	N	-	-	13.4	Y	N	N
D1-11b-6	3	31.6	D1-11b	-	52.9	0	44	0	65.8	0	0	65.8	66.0	70	N	-	-	13.1	Y	N	N
D1-11b-6	4	34.8	D1-11b	-	53	0	44	0	65.6	0	0	65.6	65.9	70	N	-	-	12.9	Y	N	N
D1-11b-6	5	38	D1-11b	-	53	0	44	0	65.3	0	0	65.4	65.6	70	N	-	-	12.6	Y	N	N
D1-11b-6	6	41.2	D1-11b	-	53.1	0	44	0	65.1	0	0	65.2	65.4	70	N	-	-	12.3	Y	N	N
D1-11b-6	7	44.4	D1-11b	-	53.1	0	43.9	0	64.9	0	0	64.9	65.2	70	N	-	-	12.1	Y	N	N
D1-11b-6	8	47.6	D1-11b	-	53.1	0	43.9	0	64.6	0	0	64.6	64.9	70	N	-	-	11.8	Y	N	N
D1-11b-6	9	50.8	D1-11b	-	53.1	0	43.9	0	64.3	0	0	64.3	64.6	70	N	-	-	11.5	Y	N	N
D1-11b-6	10	54	D1-11b	-	53.1	0	43.9	0	64	0	0	64	64.3	70	N	-	-	11.2	Y	N	N
D1-11b-6	11	57.2	D1-11b	-	53	0	43.9	0	63.7	0	0	63.7	64.1	70	N	-	-	11.1	Y	N	N
D1-11b-6	12	60.4	D1-11b	-	53	0	43.9	0	63.4	0	0	63.4	63.8	70	N	-	-	10.8	Y	N	N
D1-11b-6	13	63.6	D1-11b	-	53	0	43.9	0	63.1	0	0	63.2	63.6	70	N	-	-	10.6	Y	N	N
D1-11b-6	14	66.8	D1-11b	-	53	0	43.9	0	62.9	0	0	63	63.4	70	N	-	-	10.4	Y	N	N
D1-11b-6	15	70	D1-11b	-	53	0	43.9	0	62.7	0	0	62.7	63.2	70	N	-	-	10.2	Y	N	N
D1-11b-6	16	73.2	D1-11b	-	53.1	0	43.8	0	62.5	0	0	62.5	63.0	70	N	-	-	9.9	Y	N	N
D1-11b-6	17	76.4	D1-11b	-	53.1	0	43.8	0	62.2	0	0	62.2	62.7	70	N	-	-	9.6	Y	N	N
D1-11b-6	18	79.6	D1-11b	-	53.1	0	43.8	0	62	0	0	62.1	62.6	70	N	-	-	9.5	Y	N	N
D1-11b-6	19	82.8	D1-11b	-	53.1	0	43.8	0	61.8	0	0	61.9	62.4	70	N	-	-	9.3	Y	N	N
D1-11b-6	20	86	D1-11b	-	53	0	43.8	0	61.6	0	0	61.7	62.2	70	N	-	-	9.2	Y	N	N
D1-11b-6	21	89.2	D1-11b	-	53	0	43.7	0	61.4	0	0	61.5	62.1	70	N	-	-	9.1	Y	N	N
D1-11c-1	1	25.2	D1-11c	-	42.3	15	0	64.2	7.4	0	0	64.2	64.2	70	N	-	-	21.9	Y	N	N
D1-11c-1	2	28.4	D1-11c	-	42.3	15.4	0	65.6	7.4	0	0	65.6	65.6	70	N	-	-	23.3	Y	N	N
D1-11c-1	3	31.6	D1-11c	-	42.3	15.9	0	66.5	7.2	0	0	66.5	66.5	70	N	-	-	24.2	Y	N	N
D1-11c-1	4	34.8	D1-11c	-	42.3	16.5	0	66.9	7.5	0	0	66.9	66.9	70	N	-	-	24.6	Y	N	N
D1-11c-1	5	38	D1-11c	-	42.3	17	0	67.2	7.7	0	0	67.2	67.2	70	N	-	-	24.9	Y	N	N
D1-11c-1	6	41.2	D1-11c	-	42.3	17.5	0	67.3	8	0	0	67.3	67.3	70	N	-	-	25.0	Y	N	N
D1-11c-1	7	44.4	D1-11c	-	42.3	18.1	0	67.4	8.2	0	0	67.4	67.4	70	N	-	-	25.1	Y	N	N
D1-11c-1	8	47.6	D1-11c	-	42.3	18.8	0	67.3	8.3	0	0	67.3	67.3	70	N	-	-	25.0	Y	N	N
D1-11c-1	9	50.8	D1-11c	-	42.3	19.4	0	67.3	8.5	0	0	67.3	67.3	70	N	-	-	25.0	Y	N	N
D1-11c-1	10	54	D1-11c	-	42.2	20	0	67.2	8.5	0	0	67.2	67.2	70	N	-	-	25.0	Y	N	N
D1-11c-1	11	57.2	D1-11c	-	42.2	20.7	0	67	8.5	0	0	67	67.0	70	N	-	-	24.8	Y	N	N
D1-11c-1	12	60.4	D1-11c	-	42.2	21.3	0	67	8.6	0	0	67	67.0	70	N	-	-	24.8	Y	N	N
D1-11c-1	13	63.6	D1-11c	-	42.2	22	0	66.8	8.5	0	0	66.8	66.9	70	N	-	-	24.7	Y	N	N
D1-11c-1	14	66.8	D1-11c	-	42.2	22.7	0	66.7	8.5	0	0	66.7	66.7	70	N	-	-	24.5	Y	N	N
D1-11c-1	15	70	D1-11c	-	42.2	23.3	0	66.6	8.4	0	0	66.6	66.6	70	N	-	-	24.3	Y	N	N
D1-11c-1	16	73.2	D1-11c	-	42.2	24.1	0	66.4	8.4	0	0	66.4	66.4	70	N	-	-	24.1	Y	N	N
D1-11c-1	17	76.4	D1-11c	-	42.2	24.8	0	66.3	8.3	0	0	66.3	66.3	70	N	-	-	24.0	Y	N	N
D1-11c-1	18	79.6	D1-11c	-	42.2	25.5	0	66.1	8.3	0	0	66.1	66.2	70	N	-	-	23.9	Y	N	N
D1-11c-1	19	82.8	D1-11c	-	42.2	26.3	0	66	8.3	0	0	66	66.0	70	N	-	-	23.7	Y	N	N
D1-11c-1	20	86	D1-11c	-	42.2	27	0	65.9	8.2	0	0	65.9	65.9	70	N	-	-	23.6	Y	N	N
D1-11c-2	1	25.2	D1-11c	-	0	13.3	27.9	68.5	21	0	0	68.5	68.5	70	N	-	-	55.2	Y	N	N
D1-11c-2	2	28.4	D1-11c	-	0	13.7	27.9	69.5	21	0	0	69.5	69.5	70	N	-	-	55.8	Y	N	N
D1-11c-2	3	31.6	D1-11c	-	0	14.1	27.9	70	21	0	0	70	70.0	70	N	-	-	55.9	Y	N	N
D1-11c-2	4	34.8	D1-11c	-	0	14.6	27.9	70.1	21	0	0	70.1	70.1	70	N	-	-	55.5	Y	N	N
D1-11c-2	5	38	D1-11c	-	0	15.1	27.9	70.1	21.1	0	0	70.1	70.1	70	N	-	-	55.0	Y	N	N
D1-11c-2	6	41.2	D1-11c	-	0	15.6	27.9	70	21.1	0	0	70	70.0	70	N	-	-	54.4	Y	N	N
D1-11c-2	7	44.4	D1-11c	-	0	16.1	27.9	69.8	21.1	0	0	69.8	69.8	70	N	-	-	53.7	Y	N	N
D1-11c-2	8	47.6	D1-11c	-	0	16.8	27.9	69.7	21.2	0	0	69.7	69.7	70	N	-	-	52.9	Y	N	N
D1-11c-2	9	50.8	D1-11c	-	0	17.4	27.8	69.5	21.3	0	0	69.5	69.5	70	N	-	-	52.1	Y	N	N
D1-11c-2	10	54	D1-11c	-	0	18	27.8	69.3	21.4	0	0	69.3	69.3	70	N	-	-	51.3	Y	N	N
D1-11c-2	11	57.2	D1-11c	-	0	18.6	27.8	69.1	21.5	0	0	69.1	69.1	70	N	-	-	50.5	Y	N	N
D1-11c-2	12	60.4	D1-11c	-	0	19.2	27.8	69	21.6	0	0	69	69.0	70	N	-	-	49.8	Y	N	N
D1-11c-2	13	63.6	D1-11c	-	0	19.9	27.8	68.8	21.7	0	0	68.8	68.8	70	N	-	-	48.9	Y	N	N
D1-11c-2	14	66.8	D1-11c	-	0	20.6	27.7	68.6	22.3	0	0	68.6	68.6	70	N	-	-	48.0	Y	N	N
D1-11c-2	15	70	D1-11c	-	0	21.4	27.7	68.4	22.9	0	0	68.4	68.4	70	N	-	-	47.0	Y	N	N
D1-11c-2	16	73.2	D1-11c	-	0	22	27.7	68.2	23.9	0	0	68.2	68.2	70	N	-	-	46.2	Y	N	N
D1-11c-2	17	76.4	D1-11c	-	0	22.8	27.8	68.1	25.5	0	0	68.1	68.1	70	N	-	-	45.3	Y	N	N
D1-11c-2	18	79.6	D1-11c	-	0	23.5	28	67.9	27.2	0	0	67.9	67.9	70	N	-	-	44.4	Y	N	N
D1-11c-2	19	82.8	D1-11c	-	0	24.2	28.3	67.8	28.3	0	0	67.8	67.8	70	N	-	-	43.6	Y	N	N
D1-11c-2	20	86	D1-11c	-	0	25.1	28.6	67.6	28.8	0	0	67.6	67.6	70	N	-	-	42.5	Y	N	N
D1-11c-3	1	25.2	D1-11c	-	12.1	10.9	34	55.8	47.7	0	0	56.4	56.4	70	N	-	-	41.8	Y	N	N
D1-11c-3	2	28.4	D1-11c	-	12.2	11	34.2	56.9	48.3	0	0	57.5	57.5	70	N	-	-	42.8	Y	N	N
D1-11c-3	3	31.6	D1-11c	-	12.2	11	34.3	57.5	48.6	0	0	58.1	58.1	70	N	-	-	43.4	Y	N	N
D1-11c-3	4	34.8	D1-11c	-	12.3	11.1	34.5	58.1	48.9	0	0	58.6	58.6	70	N	-	-	43.8	Y	N	N
D1-11c-3	5	38	D1-11c	-	12.3	11.2	34.8	58.7	49.1	0	0	59.2	59.2	70	N	-	-	44.4	Y	N	N
D1-11c-3	6	41.2	D1-11c	-	12.3	11.3	35	59.1	49.2	0	0	59.5	59.5	70	N	-	-	44.7	Y	N	N
D1-11c-3	7	44.4	D1-11c	-	12.3	11.3	35.2	59.4	49.3	0	0	59.8	59.8	70	N	-	-	45.0	Y	N	N
D1-11c-3	8	47.6	D1-11c	-	12.3	11.4	35.5	59.6	49.3	0	0	60	60.0	70	N	-	-	45.1	Y	N	N
D1-11c-3	9	50.8	D1-11c	-	12.4	11.4	35.7	59.7	49.3	0	0	60.1	60.1	70	N	-	-	45.2	Y	N	N
D1-11c-3	10	54	D1-11c	-	12.4	11.5	36	59.7	49.3	0	0	60.1	60.1	70	N	-	-	45.1	Y	N	N
D1-11c-3	11	57.2	D1-11c	-	12.4	11.5	36.2	59.8	49.3	0	0	60.2	60.2	70	N	-	-	45.2	Y	N	N
D1-11c-3	12	60.4	D1-11c	-	12.4	11.5	36.5	59.8	49.3	0	0	60.2	60.2	70	N	-	-	45.2	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)									Check Project Impact Significance		Check Direct Mitigation			
D1-11c-3	13	63.6	D1-11c	-	12.5	11.6	36.9	59.9	49.2	0	0	60.2	60.2	70	N	-	-	45.1	Y	N	N
D1-11c-3	14	66.8	D1-11c	-	12.4	11.5	37.1	59.8	49.1	0	0	60.2	60.2	70	N	-	-	45.2	Y	N	N
D1-11c-3	15	70	D1-11c	-	13.4	11.5	37.5	59.8	49	0	0	60.1	60.1	70	N	-	-	44.5	Y	N	N
D1-11c-3	16	73.2	D1-11c	-	14.8	11.5	37.8	59.8	49	0	0	60.2	60.2	70	N	-	-	43.7	Y	N	N
D1-11c-3	17	76.4	D1-11c	-	16.4	13.2	38.2	59.7	49	0	0	60.1	60.1	70	N	-	-	42.0	Y	N	N
D1-11c-3	18	79.6	D1-11c	-	18.1	15.4	38.6	59.7	48.9	0	0	60	60.0	70	N	-	-	40.0	Y	N	N
D1-11c-3	19	82.8	D1-11c	-	20	18.1	38.9	59.6	48.8	0	0	60	60.0	70	N	-	-	37.8	Y	N	N
D1-11c-3	20	86	D1-11c	-	21.9	20.9	39.4	59.5	48.7	0	0	59.9	59.9	70	N	-	-	35.5	Y	N	N
D1-11c-4	1	36.2	D1-11c	-	54.3	0	28.3	44.6	66.9	0	0	66.9	67.1	70	N	-	-	12.8	Y	N	N
D1-11c-4	2	39.4	D1-11c	-	54.3	0	28.3	45	66.5	0	0	66.5	66.8	70	N	-	-	12.5	Y	N	N
D1-11c-4	3	42.6	D1-11c	-	54.4	0	28.3	45.5	66.2	0	0	66.2	66.5	70	N	-	-	12.1	Y	N	N
D1-11c-4	4	45.8	D1-11c	-	54.4	0	28.3	45.8	65.8	0	0	65.9	66.2	70	N	-	-	11.8	Y	N	N
D1-11c-4	5	49	D1-11c	-	54.4	0	28.3	46.1	65.5	0	0	65.5	65.8	70	N	-	-	11.4	Y	N	N
D1-11c-4	6	52.2	D1-11c	-	54.5	0	28.3	46.4	65.2	0	0	65.2	65.6	70	N	-	-	11.1	Y	N	N
D1-11c-4	7	55.4	D1-11c	-	54.5	0	28.3	46.7	64.8	0	0	64.9	65.2	70	N	-	-	10.7	Y	N	N
D1-11c-4	8	58.6	D1-11c	-	54.6	0	28.3	46.9	64.4	0	0	64.5	64.9	70	N	-	-	10.3	Y	N	N
D1-11c-4	9	61.8	D1-11c	-	54.7	0	28.3	47.1	64.2	0	0	64.2	64.7	70	N	-	-	10.0	Y	N	N
D1-11c-4	10	65	D1-11c	-	54.7	0	28.3	47.2	63.8	0	0	63.9	64.4	70	N	-	-	9.7	Y	N	N
D1-11c-4	11	68.2	D1-11c	-	54.8	0	28.3	47.3	63.5	0	0	63.6	64.2	70	N	-	-	9.4	Y	N	N
D1-11c-4	12	71.4	D1-11c	-	54.9	0	28.3	47.5	63.3	0	0	63.4	64.0	70	N	-	-	9.1	Y	N	N
D1-11c-4	13	74.6	D1-11c	-	54.9	0	28.3	47.6	63.1	0	0	63.2	63.8	70	N	-	-	8.9	Y	N	N
D1-11c-4	14	77.8	D1-11c	-	54.9	0	28.3	47.7	62.8	0	0	62.9	63.6	70	N	-	-	8.7	Y	N	N
D1-11c-4	15	81	D1-11c	-	54.9	0	28.4	47.7	62.5	0	0	62.7	63.4	70	N	-	-	8.5	Y	N	N
D1-11c-4	16	84.2	D1-11c	-	54.9	0	28.6	47.8	62.4	0	0	62.5	63.2	70	N	-	-	8.3	Y	N	N
D1-11c-4	17	87.4	D1-11c	-	54.9	0	28.7	47.8	62.2	0	0	62.3	63.0	70	N	-	-	8.1	Y	N	N
D1-11c-5	1	36.2	D1-11c	-	56.1	0	26.4	23.8	64.2	0	0	64.2	64.8	70	N	-	-	8.7	Y	N	N
D1-11c-5	2	39.4	D1-11c	-	56.1	0	26.4	23.8	64.1	0	0	64.1	64.7	70	N	-	-	8.6	Y	N	N
D1-11c-5	3	42.6	D1-11c	-	56.1	0	26.4	23.8	63.9	0	0	63.9	64.6	70	N	-	-	8.5	Y	N	N
D1-11c-5	4	45.8	D1-11c	-	56.1	0	26.4	23.7	63.8	0	0	63.8	64.5	70	N	-	-	8.4	Y	N	N
D1-11c-5	5	49	D1-11c	-	56.2	0	26.4	23.7	63.6	0	0	63.6	64.3	70	N	-	-	8.1	Y	N	N
D1-11c-5	6	52.2	D1-11c	-	56.2	0	26.4	23.7	63.4	0	0	63.4	64.1	70	N	-	-	7.9	Y	N	N
D1-11c-5	7	55.4	D1-11c	-	56.2	0	26.4	23.7	63.2	0	0	63.2	64.0	70	N	-	-	7.8	Y	N	N
D1-11c-5	8	58.6	D1-11c	-	56.3	0	26.4	23.7	63	0	0	63	63.8	70	N	-	-	7.5	Y	N	N
D1-11c-5	9	61.8	D1-11c	-	56.4	0	26.4	23.7	62.8	0	0	62.8	63.7	70	N	-	-	7.3	Y	N	N
D1-11c-5	10	65	D1-11c	-	56.4	0	26.4	23.7	62.6	0	0	62.6	63.5	70	N	-	-	7.1	Y	N	N
D1-11c-5	11	68.2	D1-11c	-	56.5	0	26.4	23.6	62.4	0	0	62.4	63.4	70	N	-	-	6.9	Y	N	N
D1-11c-5	12	71.4	D1-11c	-	56.5	0	26.4	23.7	62.2	0	0	62.2	63.2	70	N	-	-	6.7	Y	N	N
D1-11c-5	13	74.6	D1-11c	-	56.5	0	26.3	23.7	62	0	0	62	63.1	70	N	-	-	6.6	Y	N	N
D1-11c-5	14	77.8	D1-11c	-	56.5	0	26.3	23.7	61.8	0	0	61.8	62.9	70	N	-	-	6.4	Y	N	N
D1-11c-5	15	81	D1-11c	-	56.5	0	26.3	23.7	61.6	0	0	61.6	62.8	70	N	-	-	6.3	Y	N	N
D1-11c-5	16	84.2	D1-11c	-	56.5	0	26.3	23.8	61.5	0	0	61.5	62.7	70	N	-	-	6.2	Y	N	N
D1-11c-5	17	87.4	D1-11c	-	56.5	0	26.4	23.9	61.3	0	0	61.3	62.5	70	N	-	-	6.0	Y	N	N
E1-2-1	1	29.2	E1-2	-	0	0	0	58.4	16.4	0	0	58.4	58.4	65	N	-	-	58.4	Y	N	N
E1-2-1	2	32.2	E1-2	-	0	0	0	58.5	16.4	0	0	58.5	58.5	65	N	-	-	58.5	Y	N	N
E1-2-1	3	35.2	E1-2	-	0	0	0	58.5	16.7	0	0	58.5	58.5	65	N	-	-	58.5	Y	N	N
E1-2-1	4	38.2	E1-2	-	0	0	0	58.6	17.2	0	0	58.6	58.6	65	N	-	-	58.6	Y	N	N
E1-2-1	5	41.2	E1-2	-	0	0	0	58.9	18	0	0	58.9	58.9	65	N	-	-	58.9	Y	N	N
E1-2-1	6	44.2	E1-2	-	0	0	0	59.4	19.3	0	0	59.4	59.4	65	N	-	-	59.4	Y	N	N
E1-2-1	7	47.2	E1-2	-	0	0	0	60.4	21.5	0	0	60.4	60.4	65	N	-	-	60.4	Y	N	N
E1-2-1	8	50.2	E1-2	-	0	0	0	61.4	26	0	0	61.4	61.4	65	N	-	-	61.4	Y	N	N
E1-2-2	1	29.2	E1-2	-	0	0	0	49.7	20.6	0	0	49.7	49.7	65	N	-	-	49.7	Y	N	N
E1-2-2	2	32.2	E1-2	-	0	0	0	51.5	20.7	0	0	51.5	51.5	65	N	-	-	51.5	Y	N	N
E1-2-2	3	35.2	E1-2	-	0	0	0	54	20.7	0	0	54	54.0	65	N	-	-	54.0	Y	N	N
E1-2-2	4	38.2	E1-2	-	0	0	0	56.8	20.7	0	0	56.8	56.8	65	N	-	-	56.8	Y	N	N
E1-2-2	5	41.2	E1-2	-	0	0	0	59	20.7	0	0	59	59.0	65	N	-	-	59.0	Y	N	N
E1-2-2	6	44.2	E1-2	-	0	0	0	60.8	20.7	0	0	60.8	60.8	65	N	-	-	60.8	Y	N	N
E1-2-2	7	47.2	E1-2	-	0	0	0	62.7	20.6	0	0	62.7	62.7	65	N	-	-	62.7	Y	N	N
E1-2-2	8	50.2	E1-2	-	0	0	0	64.4	20.6	0	0	64.4	64.4	65	N	-	-	64.4	Y	N	N
E1-2-3	1	29.2	E1-2	-	0	0	59.9	61.9	10.1	0	0	64.1	64.1	65	N	-	-	64.1	Y	N	N
E1-2-3	2	32.2	E1-2	-	0	0	59.9	62	10.1	0	0	64.1	64.1	65	N	-	-	64.1	Y	N	N
E1-2-3	3	35.2	E1-2	-	0	0	59.9	61.9	10.3	0	0	64	64.0	65	N	-	-	64.0	Y	N	N
E1-2-3	4	38.2	E1-2	-	0	0	59.9	61.9	10.5	0	0	64	64.0	65	N	-	-	64.0	Y	N	N
E1-2-3	5	41.2	E1-2	-	0	0	59.9	61.8	10.6	0	0	64	64.0	65	N	-	-	64.0	Y	N	N
E1-2-3	6	44.2	E1-2	-	0	0	59.9	61.7	10.7	0	0	63.9	63.9	65	N	-	-	63.9	Y	N	N
E1-2-3	7	47.2	E1-2	-	0	0	59.9	61.6	10.9	0	0	63.8	63.8	65	N	-	-	63.8	Y	N	N
E1-2-3	8	50.2	E1-2	-	0	0	59.8	61.5	11	0	0	63.8	63.8	65	N	-	-	63.8	Y	N	N
E1-3-1	1	31.2	E1-3	-	0	43.3	0	67.7	0	0	0	67.7	67.7	70	N	-	-	24.4	Y	N	N
E1-3-1	2	34.2	E1-3	-	0	43.3	0	67.7	0	0	0	67.7	67.7	70	N	-	-	24.4	Y	N	N
E1-3-1	3	37.2	E1-3	-	0	43.3	0	67.6	0	0	0	67.6	67.6	70	N	-	-	24.3	Y	N	N
E1-3-1	4	40.2	E1-3	-	0	43.3	0	67.6	0	0	0	67.6	67.6	70	N	-	-	24.3	Y	N	N
E1-3-1	5	43.2	E1-3	-	0	43.3	0	67.5	0	0	0	67.5	67.5	70	N	-	-	24.2	Y	N	N
E1-3-1	6	46.2	E1-3	-	0	43.3	0	67.4	0	0	0	67.4	67.4	70	N	-	-	24.1	Y	N	N
E1-3-1	7	49.2	E1-3	-	0	43.2	0	67.3	0	0	0	67.3	67.3	70	N	-	-	24.1	Y	N	N
E1-3-1	8	52.2	E1-3	-	0	43.2	0	67.2	0	0	0	67.2	67.2	70	N	-	-	24.0	Y	N	N
E1-3-1	9	55.2	E1-3	-	0	43.2	0	67.1	0	0	0	67.1	67.1	70	N	-	-	23.9	Y	N	N
E1-3-1	10	58.2	E1-3	-	0	43.2	0	66.9	0	0	0	66.9	67.0	70	N	-	-	23.8	Y	N	N
E1-3-1	11	61.2	E1-3	-	0	43.2	0	66.8	0	0	0	66.8	66.8	70	N	-	-	23.6	Y	N	N
E1-3-1	12	64.2	E1-3	-	0	43.2	0	66.7	0	0	0	66.7	66.7	70	N	-	-	23.5	Y	N	N
E1-3-1	13	67.2	E1-3	-	0	43.2	0	66.6	0	0	0	66.6	66.6	70	N	-	-	23.4	Y	N	N
E1-3-1	14	70.2	E1-3	-	0	43.2	0	66.4	0	0	0	66.4	66.5	70	N	-	-	23.3	Y	N	N
E1-3-1	15	73.2	E1-3	-	0	43.1	0	66.3	0	0	0	66.3	66.3	70	N	-	-	23.2	Y	N	N
E1-3-1	16	76.2	E1-3	-	0	43.1	0	66.2	0	0	0	66.2	66.2	70	N	-	-	23.1	Y	N	N
E1-3-1	17	79.2	E1-3	-	0	43.1	0	66	0	0	0	66	66.0	70	N	-	-	22.9	Y	N	N
E1-3-1	18	82.2	E1-3	-	0	43.1	0	65.9	0	0	0	65.9	65.9	70	N	-	-	22.8	Y	N	N
E1-3-1	19	85.2	E1-3	-	0	43	0	65.8	0	0	0	65.8	65.8	70	N	-	-	22.8	Y	N	N
E1-3-1	20	88.2	E1-3	-	0	43	0	65.6	0	0	0	65.6	65.6	70	N	-	-	22.6	Y	N	N
E1-3-2	1	31.2	E1-3	-	0	0	0	69.6	0	0	0	69.6	69.6	70	N	-	-	69.6	Y	N	N
E1-3-2	2	34.2	E1-3	-	0	0	0	69.6	0	0	0	69.6	69.6	70	N	-	-	69.6	Y	N	N
E1-3-2	3	37.2	E1-3	-	0	0	0	69.5	0	0	0	69.5	69.5	70	N	-	-	69.5	Y	N	N
E1-3-2	4	40.2	E1-3	-	0	0	0	69.3	0	0	0	69.3	69.3	70	N	-	-	69.3	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]										Check Direct Mitigation		
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)									Check Project Impact Significance					
E1-3-2	5	43.2	E1-3	-	0	0	0	69.1	0	0	0	69.1	69.1	70	N	-	-	69.1	Y	N	N
E1-3-2	6	46.2	E1-3	-	0	0	0	68.8	0	0	0	68.8	68.8	70	N	-	-	68.8	Y	N	N
E1-3-2	7	49.2	E1-3	-	0	0	0	68.5	0	0	0	68.5	68.5	70	N	-	-	68.5	Y	N	N
E1-3-2	8	52.2	E1-3	-	0	0	0	68.3	0	0	0	68.3	68.3	70	N	-	-	68.3	Y	N	N
E1-3-2	9	55.2	E1-3	-	0	0	0	68	0	0	0	68	68.0	70	N	-	-	68.0	Y	N	N
E1-3-2	10	58.2	E1-3	-	0	0	0	67.7	0	0	0	67.7	67.7	70	N	-	-	67.7	Y	N	N
E1-3-2	11	61.2	E1-3	-	0	0	0	67.5	0	0	0	67.5	67.5	70	N	-	-	67.5	Y	N	N
E1-3-2	12	64.2	E1-3	-	0	0	0	67.2	0	0	0	67.2	67.2	70	N	-	-	67.2	Y	N	N
E1-3-2	13	67.2	E1-3	-	0	0	0	66.9	0	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
E1-3-2	14	70.2	E1-3	-	0	0	0	66.7	0	0	0	66.7	66.7	70	N	-	-	66.7	Y	N	N
E1-3-2	15	73.2	E1-3	-	0	0	0	66.5	0	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
E1-3-2	16	76.2	E1-3	-	0	0	0	66.2	0	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
E1-3-2	17	79.2	E1-3	-	0	0	0	66	0	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
E1-3-2	18	82.2	E1-3	-	0	0	0	65.8	0	0	0	65.8	65.8	70	N	-	-	65.8	Y	N	N
E1-3-2	19	85.2	E1-3	-	0	0	0	65.7	0	0	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
E1-3-2	20	88.2	E1-3	-	0	0	0	65.5	0	0	0	65.5	65.5	70	N	-	-	65.5	Y	N	N
E1-3-3	1	31.2	E1-3	-	0	0	56.6	68.6	13.7	0	0	68.9	68.9	70	N	-	-	68.9	Y	N	N
E1-3-3	2	34.2	E1-3	-	0	0	56.6	68.6	13.9	0	0	68.8	68.8	70	N	-	-	68.8	Y	N	N
E1-3-3	3	37.2	E1-3	-	0	0	56.5	68.5	14	0	0	68.7	68.7	70	N	-	-	68.7	Y	N	N
E1-3-3	4	40.2	E1-3	-	0	0	56.5	68.3	14.1	0	0	68.6	68.6	70	N	-	-	68.6	Y	N	N
E1-3-3	5	43.2	E1-3	-	0	0	56.4	68.1	14.2	0	0	68.4	68.4	70	N	-	-	68.4	Y	N	N
E1-3-3	6	46.2	E1-3	-	0	0	56.4	67.9	14.4	0	0	68.2	68.2	70	N	-	-	68.2	Y	N	N
E1-3-3	7	49.2	E1-3	-	0	0	56.3	67.6	14.5	0	0	67.9	67.9	70	N	-	-	67.9	Y	N	N
E1-3-3	8	52.2	E1-3	-	0	0	56.2	67.3	14.6	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
E1-3-3	9	55.2	E1-3	-	0	0	56.2	67	14.8	0	0	67.4	67.4	70	N	-	-	67.4	Y	N	N
E1-3-3	10	58.2	E1-3	-	0	0	56.1	66.8	15	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
E1-3-3	11	61.2	E1-3	-	0	0	56	66.5	15.1	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
E1-3-3	12	64.2	E1-3	-	0	0	55.9	66.3	15.3	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
E1-3-3	13	67.2	E1-3	-	0	0	55.9	66	15.5	0	0	66.4	66.4	70	N	-	-	66.4	Y	N	N
E1-3-3	14	70.2	E1-3	-	0	0	55.8	65.8	15.7	0	0	66.2	66.2	70	N	-	-	66.2	Y	N	N
E1-3-3	15	73.2	E1-3	-	0	0	55.7	65.5	15.9	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
E1-3-3	16	76.2	E1-3	-	0	0	55.6	65.3	16.2	0	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
E1-3-3	17	79.2	E1-3	-	0	0	55.6	65.1	16.7	0	0	65.5	65.5	70	N	-	-	65.5	Y	N	N
E1-3-3	18	82.2	E1-3	-	0	0	55.5	64.8	17.2	0	0	65.3	65.3	70	N	-	-	65.3	Y	N	N
E1-3-3	19	85.2	E1-3	-	0	0	55.4	64.6	18	0	0	65.1	65.1	70	N	-	-	65.1	Y	N	N
E1-3-3	20	88.2	E1-3	-	0	0	55.4	64.5	18.8	0	0	65	65.0	70	N	-	-	65.0	Y	N	N
E1-3-4	1	43.7	E1-3	-	0	12.1	0	61.6	0	0	0	61.6	61.6	70	N	-	-	49.5	Y	N	N
E1-3-4	2	46.7	E1-3	-	0	12.1	0	61.6	0	0	0	61.6	61.6	70	N	-	-	49.5	Y	N	N
E1-3-4	3	49.7	E1-3	-	0	12.1	0	61.5	0	0	0	61.5	61.5	70	N	-	-	49.4	Y	N	N
E1-3-4	4	52.7	E1-3	-	0	12.1	0	61.5	0	0	0	61.5	61.5	70	N	-	-	49.4	Y	N	N
E1-3-4	5	55.7	E1-3	-	0	12.1	0	61.4	0	0	0	61.4	61.4	70	N	-	-	49.3	Y	N	N
E1-3-4	6	58.7	E1-3	-	0	12.1	0	61.3	0	0	0	61.3	61.3	70	N	-	-	49.2	Y	N	N
E1-3-4	7	61.7	E1-3	-	0	12.1	0	61.3	0	0	0	61.3	61.3	70	N	-	-	49.2	Y	N	N
E1-3-4	8	64.7	E1-3	-	0	12.1	0	61.2	0	0	0	61.2	61.2	70	N	-	-	49.1	Y	N	N
E1-3-4	9	67.7	E1-3	-	0	12	0	61.1	0	0	0	61.1	61.1	70	N	-	-	49.1	Y	N	N
E1-3-4	10	70.7	E1-3	-	0	11.9	0	61	0	0	0	61	61.0	70	N	-	-	49.1	Y	N	N
E1-3-4	11	73.7	E1-3	-	0	11.9	0	60.9	0	0	0	60.9	60.9	70	N	-	-	49.0	Y	N	N
E1-3-4	12	76.7	E1-3	-	0	12.4	0	60.8	0	0	0	60.8	60.8	70	N	-	-	48.4	Y	N	N
E1-3-4	13	79.7	E1-3	-	0	13.3	0	60.7	0	0	0	60.7	60.7	70	N	-	-	47.4	Y	N	N
E1-3-4	14	82.7	E1-3	-	0	14.4	0	60.6	0	0	0	60.6	60.6	70	N	-	-	46.2	Y	N	N
E1-3-4	15	85.7	E1-3	-	0	15.6	0	60.5	0	0	0	60.5	60.5	70	N	-	-	44.9	Y	N	N
E1-3-4	16	88.7	E1-3	-	0	16.8	0	60.5	0	0	0	60.5	60.5	70	N	-	-	43.7	Y	N	N
E1-3-4	17	91.7	E1-3	-	0	18.2	0	60.4	0	0	0	60.4	60.4	70	N	-	-	42.2	Y	N	N
E1-3-4	18	94.7	E1-3	-	0	20	0	60.3	0	0	0	60.3	60.3	70	N	-	-	40.3	Y	N	N
E1-3-5	1	43.7	E1-3	-	0	11.8	0	66.5	0	0	0	66.5	66.5	70	N	-	-	54.7	Y	N	N
E1-3-5	2	46.7	E1-3	-	0	11.8	0	66.4	0	0	0	66.4	66.4	70	N	-	-	54.6	Y	N	N
E1-3-5	3	49.7	E1-3	-	0	11.8	0	66.3	0	0	0	66.3	66.3	70	N	-	-	54.5	Y	N	N
E1-3-5	4	52.7	E1-3	-	0	11.7	0	66.2	0	0	0	66.2	66.2	70	N	-	-	54.5	Y	N	N
E1-3-5	5	55.7	E1-3	-	0	11.8	0	66	0	0	0	66	66.0	70	N	-	-	54.2	Y	N	N
E1-3-5	6	58.7	E1-3	-	0	11.7	0	65.8	0	0	0	65.8	65.8	70	N	-	-	54.1	Y	N	N
E1-3-5	7	61.7	E1-3	-	0	11.7	0	65.7	0	0	0	65.7	65.7	70	N	-	-	54.0	Y	N	N
E1-3-5	8	64.7	E1-3	-	0	11.7	0	65.5	0	0	0	65.5	65.5	70	N	-	-	53.8	Y	N	N
E1-3-5	9	67.7	E1-3	-	0	11.7	0	65.3	0	0	0	65.3	65.3	70	N	-	-	53.6	Y	N	N
E1-3-5	10	70.7	E1-3	-	0	11.6	0	65.1	0	0	0	65.1	65.1	70	N	-	-	53.5	Y	N	N
E1-3-5	11	73.7	E1-3	-	0	11.6	0	65	0	0	0	65	65.0	70	N	-	-	53.4	Y	N	N
E1-3-5	12	76.7	E1-3	-	0	12.2	0	64.8	0	0	0	64.8	64.8	70	N	-	-	52.6	Y	N	N
E1-3-5	13	79.7	E1-3	-	0	13	0	64.6	0	0	0	64.6	64.6	70	N	-	-	51.6	Y	N	N
E1-3-5	14	82.7	E1-3	-	0	14	0	64.5	0	0	0	64.5	64.5	70	N	-	-	50.5	Y	N	N
E1-3-5	15	85.7	E1-3	-	0	15.1	0	64.3	0	0	0	64.3	64.3	70	N	-	-	49.2	Y	N	N
E1-3-5	16	88.7	E1-3	-	0	16.1	0	64.2	0	0	0	64.2	64.2	70	N	-	-	48.1	Y	N	N
E1-3-5	17	91.7	E1-3	-	0	17.3	0	64	0	0	0	64	64.0	70	N	-	-	46.7	Y	N	N
E1-3-5	18	94.7	E1-3	-	0	18.8	0	63.9	0	0	0	63.9	63.9	70	N	-	-	45.1	Y	N	N
E1-3-6	1	43.7	E1-3	-	0	0	60	67	0	0	0	67.8	67.8	70	N	-	-	67.8	Y	N	N
E1-3-6	2	46.7	E1-3	-	0	0	59.9	66.9	0	0	0	67.7	67.7	70	N	-	-	67.7	Y	N	N
E1-3-6	3	49.7	E1-3	-	0	0	59.7	66.8	0	0	0	67.5	67.5	70	N	-	-	67.5	Y	N	N
E1-3-6	4	52.7	E1-3	-	0	0	59.6	66.6	0	0	0	67.4	67.4	70	N	-	-	67.4	Y	N	N
E1-3-6	5	55.7	E1-3	-	0	0	59.4	66.5	0	0	0	67.2	67.2	70	N	-	-	67.2	Y	N	N
E1-3-6	6	58.7	E1-3	-	0	0	59.3	66.3	0	0	0	67.1	67.1	70	N	-	-	67.1	Y	N	N
E1-3-6	7	61.7	E1-3	-	0	0	59.1	66.1	0	0	0	66.9	66.9	70	N	-	-	66.9	Y	N	N
E1-3-6	8	64.7	E1-3	-	0	0	58.9	66	0	0	0	66.8	66.8	70	N	-	-	66.8	Y	N	N
E1-3-6	9	67.7	E1-3	-	0	0	58.8	65.8	0	0	0	66.6	66.6	70	N	-	-	66.6	Y	N	N
E1-3-6	10	70.7	E1-3	-	0	0	58.6	65.7	0	0	0	66.5	66.5	70	N	-	-	66.5	Y	N	N
E1-3-6	11	73.7	E1-3	-	0	0	58.5	65.5	0	0	0	66.3	66.3	70	N	-	-	66.3	Y	N	N
E1-3-6	12	76.7	E1-3	-	0	0	58.4	65.3	0	0	0	66.1	66.1	70	N	-	-	66.1	Y	N	N
E1-3-6	13	79.7	E1-3	-	0	0	58.2	65.2	0	0	0	66	66.0	70	N	-	-	66.0	Y	N	N
E1-3-6	14	82.7	E1-3	-	0	0	58.1	65.1	0	0	0	65.9	65.9	70	N	-	-	65.9	Y	N	N
E1-3-6	15	85.7	E1-3	-	0	0	58	64.9	0	0	0	65.7	65.7	70	N	-	-	65.7	Y	N	N
E1-3-6	16	88.7	E1-3	-	0	0	57.9	64.8	0	0	0	65.6	65.6	70	N	-	-	65.6	Y	N	N
E1-3-6	17	91.7	E1-3	-	0	0	57.8	64.7	0	0	0	65.5	65.5	70	N	-	-	65.5	Y	N	N
E1-3-6	18	94.7	E1-3	-	0	0	57.7	64.5	0	0	0	65.4	65.4	70	N	-	-	65.4	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITHOUT PROJECT	WITH PROJECT														
							New Roads[2]										Check Direct Mitigation		
ID	Floor	Floor Level (mPD)		Overall Noise Level in 2044 dB(A) [A]	Existing Road in 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	C - A dB(A) [D]	D ≥ 1dB(A)	New Road Contribution dB(A) [E]	New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)									Check Project Impact Significance					
E1-3-7	1	43.7	E1-3	-	0	11.1	61.6	67.9	0	0	0	68.9	68.9	70	N	-	-	57.8	Y	N	N
E1-3-7	2	46.7	E1-3	-	0	11.1	61.4	67.8	0	0	0	68.7	68.7	70	N	-	-	57.6	Y	N	N
E1-3-7	3	49.7	E1-3	-	0	11	61	67.6	0	0	0	68.5	68.5	70	N	-	-	57.5	Y	N	N
E1-3-7	4	52.7	E1-3	-	0	11	60.7	67.4	0	0	0	68.3	68.3	70	N	-	-	57.3	Y	N	N
E1-3-7	5	55.7	E1-3	-	0	11	60.4	67.2	0	0	0	68.1	68.1	70	N	-	-	57.1	Y	N	N
E1-3-7	6	58.7	E1-3	-	0	11	60.1	67	0	0	0	67.9	67.9	70	N	-	-	56.9	Y	N	N
E1-3-7	7	61.7	E1-3	-	0	11	59.8	66.8	0	0	0	67.6	67.6	70	N	-	-	56.6	Y	N	N
E1-3-7	8	64.7	E1-3	-	0	11	59.6	66.6	0	0	0	67.4	67.4	70	N	-	-	56.4	Y	N	N
E1-3-7	9	67.7	E1-3	-	0	11	59.3	66.4	0	0	0	67.2	67.2	70	N	-	-	56.2	Y	N	N
E1-3-7	10	70.7	E1-3	-	0	11	59.1	66.2	0	0	0	67	67.0	70	N	-	-	56.0	Y	N	N
E1-3-7	11	73.7	E1-3	-	0	10.9	58.8	66.1	0	0	0	66.8	66.8	70	N	-	-	55.9	Y	N	N
E1-3-7	12	76.7	E1-3	-	0	10.9	58.6	65.9	0	0	0	66.6	66.6	70	N	-	-	55.7	Y	N	N
E1-3-7	13	79.7	E1-3	-	0	11.8	58.4	65.7	0	0	0	66.4	66.4	70	N	-	-	54.6	Y	N	N
E1-3-7	14	82.7	E1-3	-	0	12.9	58.2	65.5	0	0	0	66.2	66.2	70	N	-	-	53.3	Y	N	N
E1-3-7	15	85.7	E1-3	-	0	14.2	58	65.3	0	0	0	66	66.0	70	N	-	-	51.8	Y	N	N
E1-3-7	16	88.7	E1-3	-	0	15.3	57.8	65.1	0	0	0	65.9	65.9	70	N	-	-	50.6	Y	N	N
E1-3-7	17	91.7	E1-3	-	0	16.2	57.6	64.9	0	0	0	65.7	65.7	70	N	-	-	49.5	Y	N	N
E1-3-7	18	94.7	E1-3	-	0	17.4	57.4	64.8	0	0	0	65.5	65.5	70	N	-	-	48.1	Y	N	N
E1-3-8	1	43.7	E1-3	-	0	0	65.3	67	0	0	0	69.2	69.2	70	N	-	-	69.2	Y	N	N
E1-3-8	2	46.7	E1-3	-	0	0	65.1	66.9	0	0	0	69.1	69.1	70	N	-	-	69.1	Y	N	N
E1-3-8	3	49.7	E1-3	-	0	0	64.9	66.9	0	0	0	69	69.0	70	N	-	-	69.0	Y	N	N
E1-3-8	4	52.7	E1-3	-	0	0	64.7	66.9	0	0	0	68.9	68.9	70	N	-	-	68.9	Y	N	N
E1-3-8	5	55.7	E1-3	-	0	0	64.5	66.8	0	0	0	68.8	68.8	70	N	-	-	68.8	Y	N	N
E1-3-8	6	58.7	E1-3	-	0	0	64.3	66.8	0	0	0	68.7	68.7	70	N	-	-	68.7	Y	N	N
E1-3-8	7	61.7	E1-3	-	0	0	64.1	66.8	0	0	0	68.6	68.6	70	N	-	-	68.6	Y	N	N
E1-3-8	8	64.7	E1-3	-	0	0	63.9	66.7	0	0	0	68.5	68.5	70	N	-	-	68.5	Y	N	N
E1-3-8	9	67.7	E1-3	-	0	0	63.7	66.7	0	0	0	68.4	68.4	70	N	-	-	68.4	Y	N	N
E1-3-8	10	70.7	E1-3	-	0	0	63.5	66.6	0	0	0	68.3	68.3	70	N	-	-	68.3	Y	N	N
E1-3-8	11	73.7	E1-3	-	0	0	63.3	66.5	0	0	0	68.2	68.2	70	N	-	-	68.2	Y	N	N
E1-3-8	12	76.7	E1-3	-	0	0	63.2	66.5	0	0	0	68.1	68.1	70	N	-	-	68.1	Y	N	N
E1-3-8	13	79.7	E1-3	-	0	0	63	66.4	0	0	0	68	68.0	70	N	-	-	68.0	Y	N	N
E1-3-8	14	82.7	E1-3	-	0	0	62.8	66.3	0	0	0	67.9	67.9	70	N	-	-	67.9	Y	N	N
E1-3-8	15	85.7	E1-3	-	0	0	62.7	66.2	0	0	0	67.8	67.8	70	N	-	-	67.8	Y	N	N
E1-3-8	16	88.7	E1-3	-	0	0	62.5	66.1	0	0	0	67.7	67.7	70	N	-	-	67.7	Y	N	N
E1-3-8	17	91.7	E1-3	-	0	0	62.4	66	0	0	0	67.6	67.6	70	N	-	-	67.6	Y	N	N
E1-3-8	18	94.7	E1-3	-	0	0	62.3	65.9	0	0	0	67.4	67.4	70	N	-	-	67.4	Y	N	N
E1-3-9	1	43.7	E1-3	-	0	0	61.8	59.5	37.6	0	0	63.8	63.8	70	N	-	-	63.8	Y	N	N
E1-3-9	2	46.7	E1-3	-	0	0	61.7	59.5	37.8	0	0	63.8	63.8	70	N	-	-	63.8	Y	N	N
E1-3-9	3	49.7	E1-3	-	0	0	61.6	59.6	38.1	0	0	63.7	63.7	70	N	-	-	63.7	Y	N	N
E1-3-9	4	52.7	E1-3	-	0	0	61.5	59.6	38.3	0	0	63.7	63.7	70	N	-	-	63.7	Y	N	N
E1-3-9	5	55.7	E1-3	-	0	0	61.5	59.7	38.7	0	0	63.7	63.7	70	N	-	-	63.7	Y	N	N
E1-3-9	6	58.7	E1-3	-	0	0	61.3	59.9	39.2	0	0	63.7	63.7	70	N	-	-	63.7	Y	N	N
E1-3-9	7	61.7	E1-3	-	0	0	61.3	60.1	39.6	0	0	63.8	63.8	70	N	-	-	63.8	Y	N	N
E1-3-9	8	64.7	E1-3	-	0	0	61.1	60.5	40.2	0	0	63.9	63.9	70	N	-	-	63.9	Y	N	N
E1-3-9	9	67.7	E1-3	-	0	0	61	61.1	40.9	0	0	64.1	64.1	70	N	-	-	64.1	Y	N	N
E1-3-9	10	70.7	E1-3	-	0	0	60.9	61.6	41.6	0	0	64.3	64.3	70	N	-	-	64.3	Y	N	N
E1-3-9	11	73.7	E1-3	-	0	0	60.8	62	42.4	0	0	64.5	64.5	70	N	-	-	64.5	Y	N	N
E1-3-9	12	76.7	E1-3	-	0	0	60.7	62.3	43.3	0	0	64.6	64.6	70	N	-	-	64.6	Y	N	N
E1-3-9	13	79.7	E1-3	-	0	0	60.6	62.5	44.2	0	0	64.7	64.7	70	N	-	-	64.7	Y	N	N
E1-3-9	14	82.7	E1-3	-	0	0	60.5	62.7	45.2	0	0	64.8	64.8	70	N	-	-	64.8	Y	N	N
E1-3-9	15	85.7	E1-3	-	0	0	60.4	62.8	46.4	0	0	64.8	64.8	70	N	-	-	64.8	Y	N	N
E1-3-9	16	88.7	E1-3	-	0	0	60.3	63	47.5	0	0	65	65.0	70	N	-	-	65.0	Y	N	N
E1-3-9	17	91.7	E1-3	-	0	0	60.2	63.2	48.7	0	0	65.1	65.1	70	N	-	-	65.1	Y	N	N
E1-3-9	18	94.7	E1-3	-	0	0	60.1	63.4	49.6	0	0	65.2	65.2	70	N	-	-	65.2	Y	N	N
E1-3-10	1	43.7	E1-3	-	0	9.8	57.8	57	48.2	0	0	60.7	60.7	70	N	-	-	50.9	Y	N	N
E1-3-10	2	46.7	E1-3	-	0	9.8	57.8	57.4	48.2	0	0	60.9	60.9	70	N	-	-	51.1	Y	N	N
E1-3-10	3	49.7	E1-3	-	0	9.8	57.8	57.6	48.2	0	0	61	61.0	70	N	-	-	51.2	Y	N	N
E1-3-10	4	52.7	E1-3	-	0	9.8	57.8	57.8	48.3	0	0	61.1	61.1	70	N	-	-	51.3	Y	N	N
E1-3-10	5	55.7	E1-3	-	0	9.8	57.8	58	48.4	0	0	61.1	61.1	70	N	-	-	51.3	Y	N	N
E1-3-10	6	58.7	E1-3	-	0	9.8	57.8	58.2	48.3	0	0	61.2	61.2	70	N	-	-	51.4	Y	N	N
E1-3-10	7	61.7	E1-3	-	0	9.8	57.7	58.4	48.5	0	0	61.3	61.3	70	N	-	-	51.5	Y	N	N
E1-3-10	8	64.7	E1-3	-	0	9.8	57.7	58.5	48.7	0	0	61.4	61.4	70	N	-	-	51.6	Y	N	N
E1-3-10	9	67.7	E1-3	-	0	9.8	57.7	58.6	48.8	0	0	61.4	61.4	70	N	-	-	51.6	Y	N	N
E1-3-10	10	70.7	E1-3	-	0	9.8	57.6	58.7	49	0	0	61.5	61.5	70	N	-	-	51.7	Y	N	N
E1-3-10	11	73.7	E1-3	-	0	9.8	57.6	58.8	49.2	0	0	61.5	61.5	70	N	-	-	51.7	Y	N	N
E1-3-10	12	76.7	E1-3	-	0	9.6	57.5	58.9	49.6	0	0	61.5	61.5	70	N	-	-	51.9	Y	N	N
E1-3-10	13	79.7	E1-3	-	0	10.7	57.5	59.2	50	0	0	61.7	61.7	70	N	-	-	51.0	Y	N	N
E1-3-10	14	82.7	E1-3	-	0	12.2	57.4	59.5	50.7	0	0	61.9	61.9	70	N	-	-	49.7	Y	N	N
E1-3-10	15	85.7	E1-3	-	0	14	57.3	59.8	51.3	0	0	62.1	62.1	70	N	-	-	48.1	Y	N	N
E1-3-10	16	88.7	E1-3	-	0	16.3	57.3	59.9	52.3	0	0	62.3	62.3	70	N	-	-	46.0	Y	N	N
E1-3-10	17	91.7	E1-3	-	0	19.1	57.3	60	53.1	0	0	62.4	62.4	70	N	-	-	43.3	Y	N	N
E1-3-10	18	94.7	E1-3	-	0	22.7	57.2	60.1	53.9	0	0	62.5	62.5	70	N	-	-	39.8	Y	N	N
E1-4-1	1	29.2	E1-4	-	0	19	0	64.5	0	0	0	64.5	64.5	65	N	-	-	45.5	Y	N	N
E1-4-1	2	32.2	E1-4	-	0	20.1	0	64.5	0	0	0	64.5	64.5	65	N	-	-	44.4	Y	N	N
E1-4-1	3	35.2	E1-4	-	0	21.3	0	64.5	0	0	0	64.5	64.5	65	N	-	-	43.2	Y	N	N
E1-4-1	4	38.2	E1-4	-	0	22.7	0	64.5	0	0	0	64.5	64.5	65	N	-	-	41.8	Y	N	N
E1-4-1	5	41.2	E1-4	-	0	24.2	0	64.4	0	0	0	64.4	64.4	65	N	-	-	40.2	Y	N	N
E1-4-1	6	44.2	E1-4	-	0	26	0	64.4	0	0	0	64.4	64.4	65	N	-	-	38.4	Y	N	N
E1-4-1	7	47.2	E1-4	-	0	28	0	64.4	0	0	0	64.4	64.4	65	N	-	-	36.4	Y	N	N
E1-4-1	8	50.2	E1-4	-	0	30.3	0	64.3	0	0	0	64.3	64.3	65	N	-	-	34.0	Y	N	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Existing and Planned Residential and Educational Uses in KTN NDA (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 2046 dB(A)	Other Roads in 2046 dB(A)[1]	PD	DD	LD	EX	TR	New Roads in 2046 dB(A) [3] [B]	Overall Noise Level in 2046 dB(A) [C]	Noise Criteria dB(A)	Exceedance C > Criteria (Y/N)	Check Project Impact Significance: C - A dB(A) [D]	Check Project Impact Significance: D ≥ 1dB(A)	Check Direct Mitigation: New Road Contribution dB(A) [E]	Check Direct Mitigation: New Road Contribution ≥ 1dB(A) E ≥ 1dB(A)	Check Direct Mitigation: New Road > Criteria B > Criteria	At Receiver-end Mitigation Measures Required [4,5] (Y/N)
							dB (A)												
KTS14_1	1	14.7	OZP Planned Development	-	5.2	0	42	42.4	45.6	54.9	0	55.8	55.8	70	N	-	-	50.6	Y	N	N
KTS14_1	2	17.8	OZP Planned Development	-	5.7	0	42.7	43.4	48.5	55.7	0	56.8	56.8	70	N	-	-	51.1	Y	N	N
KTS14_1	3	20.9	OZP Planned Development	-	6.3	0	43.3	44.4	51.5	56.4	0	58	58.0	70	N	-	-	51.7	Y	N	N
KTS14_1	4	24	OZP Planned Development	-	6.8	0	44	45.5	54	57.1	0	59.2	59.2	70	N	-	-	52.4	Y	N	N
KTS14_1	5	27.1	OZP Planned Development	-	7.3	0	44.7	46.6	55.3	57.9	0	60.2	60.2	70	N	-	-	52.9	Y	N	N
KTS14_1	6	30.2	OZP Planned Development	-	7.8	0	45.3	47.6	56.1	58.8	0	61	61.0	70	N	-	-	53.2	Y	N	N
KTS14_1	7	33.3	OZP Planned Development	-	8.3	0	45.9	48.6	56.5	59.7	0	61.7	61.7	70	N	-	-	53.4	Y	N	N
KTS14_1	8	36.4	OZP Planned Development	-	8.9	0	46.6	49.8	56.8	60.7	0	62.5	62.5	70	N	-	-	53.6	Y	N	N
KTS14_1	9	39.5	OZP Planned Development	-	9.5	0	47.2	51.1	57	61.7	0	63.4	63.4	70	N	-	-	53.9	Y	N	N
KTS14_1	10	42.6	OZP Planned Development	-	10.1	0	48	52.2	57.1	63	0	64.3	64.3	70	N	-	-	54.2	Y	N	N
KTS14_1	11	45.7	OZP Planned Development	-	10.8	0	48.6	53.5	57.2	64.3	0	65.5	65.5	70	N	-	-	54.7	Y	N	N
KTS14_1	12	48.8	OZP Planned Development	-	11.4	0	49.5	54.5	57.3	65.7	0	66.6	66.6	70	N	-	-	55.2	Y	N	N
KTS14_1	13	51.9	OZP Planned Development	-	12.1	0	50	55.5	57.3	67.1	0	67.9	67.9	70	N	-	-	55.8	Y	N	N
KTS14_1	14	55	OZP Planned Development	-	12.8	0	50.6	56.2	57.3	68.1	0	68.7	68.7	70	N	-	-	55.9	Y	N	N
KTS14_1	15	58.1	OZP Planned Development	-	13.4	0	51.2	56.7	57.3	68.9	0	69.5	69.5	70	N	-	-	56.1	Y	N	N
KTS14_1	16	61.2	OZP Planned Development	-	14.1	0	51.7	57.1	57.3	69.4	0	70	70.0	70	N	-	-	55.9	Y	N	N
KTS14_1	17	64.3	OZP Planned Development	-	14.8	0	52.1	57.7	57.3	69.7	0	70.3	70.3	70	N	-	-	55.5	Y	N	N
KTS484_1	1	15.2	OZP Planned Development	-	67.7	0	32.9	39.5	63.3	65.9	0	67.8	70.8	70	Y	-	-	3.1	Y	N	Y
KTS484_1	2	19.7	OZP Planned Development	-	67.6	0	33.3	40.2	63.2	66.8	0	68.3	71.0	70	Y	-	-	3.4	Y	N	Y
KTS484_2	1	15.2	OZP Planned Development	-	56.7	0	31.1	34.4	59.7	61.6	0	63.8	64.6	70	N	-	-	7.9	Y	N	N
KTS484_2	2	19.7	OZP Planned Development	-	58.2	0	31.4	35.2	59.8	62.5	0	64.4	65.3	70	N	-	-	7.1	Y	N	N
KTS484_3	1	15.2	OZP Planned Development	-	54.1	0	28.2	11.8	54	59.9	0	60.9	61.7	70	N	-	-	7.6	Y	N	N
KTS484_3	2	19.7	OZP Planned Development	-	57	0	28.8	11.8	58.6	62	0	63.7	64.5	70	N	-	-	7.5	Y	N	N
KTS484_4	1	15.2	OZP Planned Development	-	51.2	0	26.3	12	43.6	54.7	0	55	56.5	70	N	-	-	5.3	Y	N	N
KTS484_4	2	19.7	OZP Planned Development	-	55	0	27.1	12	54.9	58.5	0	60.1	61.3	70	N	-	-	6.3	Y	N	N
KTS484_5	1	15.2	OZP Planned Development	-	46.8	0	5.7	0	38.9	0	0	38.9	47.4	70	N	-	-	0.6	N	N	N
KTS484_5	2	19.7	OZP Planned Development	-	52.6	0	5.7	0	45.8	0	0	45.8	53.4	70	N	-	-	0.8	N	N	N
SHK_1	1	13	OZP Planned Development	-	42.6	0	45	42.3	24.6	51.6	0	52.9	53.3	70	N	-	-	10.7	Y	N	N
SHK_1	2	16.2	OZP Planned Development	-	42.6	0	46	43.6	26.6	52.4	0	53.7	54.0	70	N	-	-	11.4	Y	N	N
SHK_1	3	19.4	OZP Planned Development	-	42.6	0	47.3	44.9	28.9	53.1	0	54.6	54.9	70	N	-	-	12.3	Y	N	N
SHK_1	4	22.6	OZP Planned Development	-	42.6	0	48.9	46.3	31.5	53.7	0	55.5	55.8	70	N	-	-	13.2	Y	N	N
SHK_1	5	25.8	OZP Planned Development	-	42.6	0	51.2	47.8	34.5	54.4	0	56.7	56.9	70	N	-	-	14.3	Y	N	N
SHK_1	6	29	OZP Planned Development	-	42.8	0	53.9	49.3	38.2	55	0	58.2	58.3	70	N	-	-	15.5	Y	N	N
SHK_1	7	32.2	OZP Planned Development	-	43.2	0	56.2	50.8	42.4	55.6	0	59.6	59.7	70	N	-	-	16.5	Y	N	N
SHK_1	8	35.4	OZP Planned Development	-	43.5	0	57.4	52.3	45.6	56.2	0	60.7	60.7	70	N	-	-	17.2	Y	N	N
SHK_1	9	38.6	OZP Planned Development	-	43.6	0	58	54	46.8	56.7	0	61.5	61.5	70	N	-	-	17.9	Y	N	N
SHK_1	10	41.8	OZP Planned Development	-	43.6	0	58.3	55.4	47.2	57.2	0	62.1	62.1	70	N	-	-	18.5	Y	N	N
SHK_1	11	45	OZP Planned Development	-	43.6	0	58.6	56.7	47.4	57.8	0	62.7	62.7	70	N	-	-	19.1	Y	N	N
SHK_1	12	48.2	OZP Planned Development	-	43.5	0	58.7	58	47.3	58.2	0	63.2	63.3	70	N	-	-	19.8	Y	N	N
SHK_1	13	51.4	OZP Planned Development	-	43.5	0	58.8	59.1	47.3	58.6	0	63.7	63.7	70	N	-	-	20.2	Y	N	N
SHK_1	14	54.6	OZP Planned Development	-	43.5	0	58.9	59.8	47.1	59.1	0	64.2	64.2	70	N	-	-	20.7	Y	N	N
SHK_1	15	57.8	OZP Planned Development	-	43.5	0	59	60.5	47	59.5	0	64.6	64.6	70	N	-	-	21.1	Y	N	N
SHK_1	16	61	OZP Planned Development	-	43.5	0	59.1	61.1	46.8	60	0	65	65.0	70	N	-	-	21.5	Y	N	N
SHK_1	17	64.2	OZP Planned Development	-	43.5	0	59.2	61.5	46.7	60.5	0	65.3	65.3	70	N	-	-	21.8	Y	N	N
SHK_1	18	67.4	OZP Planned Development	-	43.5	0	59.3	61.8	46.5	60.9	0	65.6	65.6	70	N	-	-	22.1	Y	N	N
SHK_1	19	70.6	OZP Planned Development	-	43.5	0	59.3	61.9	46.4	61.4	0	65.8	65.9	70	N	-	-	22.4	Y	N	N
SHK_2	1	13	OZP Planned Development	-	45.2	0	56.4	42.1	39.7	67.2	0	67.5	67.6	70	N	-	-	22.4	Y	N	N
SHK_2	2	16.2	OZP Planned Development	-	45.2	0	56.5	43.2	42.4	67.2	0	67.5	67.6	70	N	-	-	22.4	Y	N	N
SHK_2	3	19.4	OZP Planned Development	-	45.2	0	56.6	44.4	46.6	67.2	0	67.6	67.6	70	N	-	-	22.4	Y	N	N
SHK_2	4	22.6	OZP Planned Development	-	45.2	0	56.6	45.7	51.6	67.2	0	67.7	67.7	70	N	-	-	22.5	Y	N	N
SHK_2	5	25.8	OZP Planned Development	-	45.2	0	56.6	47	53.4	67.2	0	67.8	67.8	70	N	-	-	22.6	Y	N	N
SHK_2	6	29	OZP Planned Development	-	45.2	0	56.6	48.5	54.4	67.4	0	68	68.0	70	N	-	-	22.8	Y	N	N
SHK_2	7	32.2	OZP Planned Development	-	45.1	0	56.7	50.4	54.9	67.7	0	68.3	68.3	70	N	-	-	23.2	Y	N	N
SHK_2	8	35.4	OZP Planned Development	-	45.1	0	56.7	52.4	55.2	68	0	68.6	68.6	70	N	-	-	23.5	Y	N	N
SHK_2	9	38.6	OZP Planned Development	-	45.1	0	56.8	54.3	55.4	68.1	0	68.7	68.8	70	N	-	-	23.7	Y	N	N
SHK_2	10	41.8	OZP Planned Development	-	45.1	0	56.9	55.9	55.4	68	0	68.8	68.8	70	N	-	-	23.7	Y	N	N
SHK_2	11	45	OZP Planned Development	-	45.1	0	56.9	57	55.3	68.1	0	68.9	68.9	70	N	-	-	23.8	Y	N	N
SHK_2	12	48.2	OZP Planned Development	-	45.1	0	56.9	57.7	55.3	68.1	0	69	69.0	70	N	-	-	23.9	Y	N	N
SHK_2	13	51.4	OZP Planned Development	-	45.1	0	56.8	58.2	55.3	68.2	0	69.1	69.1	70	N	-	-	24.0	Y	N	N
SHK_2	14	54.6	OZP Planned Development	-	45.1	0	56.9	58.5	55.2	68.3	0	69.2	69.2	70	N	-	-	24.1	Y	N	N
SHK_2	15	57.8	OZP Planned Development	-	45.1	0	56.8	58.7	55.2	68.4	0	69.3	69.3	70	N	-	-	24.2	Y	N	N
SHK_2	16	61	OZP Planned Development	-	45.1	0	56.8	58.7	55.1	68.5	0	69.4	69.4	70	N	-	-	24.3	Y	N	N
SHK_2	17	64.2	OZP Planned Development	-	45.1	0	56.8	58.7	55	68.7	0	69.5	69.5	70	N	-	-	24.4	Y	N	N
SHK_2	18	67.4	OZP Planned Development	-	45.1	0	56.8	58.7	55	68.7	0	69.6	69.6	70	N	-	-	24.5	Y	N	N
SHK_2	19	70.6	OZP Planned Development	-	45.2	0	56.8	58.7	54.9	68.8	0	69.6	69.6	70	N	-	-	24.4	Y	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 PC/TKL NDA and modification of connecting roads to NDA.

[4] For landuse planned under NDA project, both at source and at receiver-end noise 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 dB(A)" or "New Roads exceeds Noise Criteria" or "New Roads Contribution ≥ 1 dB(A)".

[6] The ex-Lady Ho Tung Welfare Centre at KTN-7 (R1061) is closed. A revitalisation project is proposed to turn the building into Lady Ho Tung Welfare Centre Eco-learn Institute, subject to the funding approval of the Finance Committee.

Title: Detailed Calculation of Road Traffic Noise With Direct Mitigation Measures in place
Scenario: Proposed Social Welfare Facilities in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITH PROJECT									
				Existing Road in 2046, dB(A)	Other Roads in 2046, dB(A)[1]	New Roads[2]						Overall Noise Level in 2046, L_{10} dB(A) [C]	Noise Criteria, dB(A)	Exceedance [4] C > Criteria (Y/N)
						PD	DD	LD	EX	TR	New Roads in 2046 dB(A)[3] [B]			
ID	Floor	Floor Level (mPD)				dB (A)								
A1-2-s1	1	21.2	A1-2 Social Welfare Facilities	26.8	0	52	64.3	10.2	45.4	0	64.6	64.6	70	N
A1-2-s1	2	26.2	A1-2 Social Welfare Facilities	30.2	0	54.8	64.3	15.3	47.7	0	64.8	64.8	70	N
A1-2-s2	1	21.2	A1-2 Social Welfare Facilities	28.1	0	54.8	66.7	10.4	46.5	0	67	67	70	N
A1-2-s2	2	26.2	A1-2 Social Welfare Facilities	30.9	0	57.3	66.6	15.3	47.9	0	67.1	67.1	70	N
A1-2-s3	1	21.2	A1-2 Social Welfare Facilities	31.7	0	58.8	69.7	21.3	47	0	70	70	70	N
A1-2-s3	2	26.2	A1-2 Social Welfare Facilities	33.6	0	61.6	69.4	23.4	48.2	0	70.1	70.1	70	N
A1-2-s4	1	21.2	A1-2 Social Welfare Facilities	32.2	0	42.3	67.3	51.3	47.3	0	67.5	67.5	70	N
A1-2-s4	2	26.2	A1-2 Social Welfare Facilities	32.6	0	43.8	67.3	51.2	47.9	0	67.5	67.5	70	N
A1-2-s5	1	21.2	A1-2 Social Welfare Facilities	26.1	0	41.2	65.7	52.1	46.4	0	66	66	70	N
A1-2-s5	2	26.2	A1-2 Social Welfare Facilities	26.4	0	42.9	65.7	52	47	0	65.9	65.9	70	N
A1-2-s6	1	21.2	A1-2 Social Welfare Facilities	26.1	0	37.9	64.7	52	43.8	0	65	65	70	N
A1-2-s6	2	26.2	A1-2 Social Welfare Facilities	26.4	0	39.6	64.7	52	44.3	0	65	65	70	N
A1-2-s7	1	21.2	A1-2 Social Welfare Facilities	31.2	0	50.8	65.6	0	42.3	0	65.7	65.7	70	N
A1-2-s7	2	26.2	A1-2 Social Welfare Facilities	32.9	0	52.6	65.5	0	42.8	0	65.7	65.7	70	N
A1-2-s8	1	21.2	A1-2 Social Welfare Facilities	0	0	43.7	6.2	15.2	0	0	43.7	43.7	70	N
A1-2-s8	2	26.2	A1-2 Social Welfare Facilities	0	0	47.8	6.2	15.3	0	0	47.8	47.8	70	N
A1-2-s9	1	21.2	A1-2 Social Welfare Facilities	0	0	43.6	6.2	15.2	0	0	43.6	43.6	70	N
A1-2-s9	2	26.2	A1-2 Social Welfare Facilities	0	0	47.7	6.2	15.2	0	0	47.7	47.7	70	N
A1-2-s10	1	21.2	A1-2 Social Welfare Facilities	0	0	43.6	6.1	15.1	0	0	43.6	43.6	70	N
A1-2-s10	2	26.2	A1-2 Social Welfare Facilities	0	0	47.7	6.2	15.2	0	0	47.7	47.7	70	N
A1-2-s11	1	21.2	A1-2 Social Welfare Facilities	0	0	43.5	6.2	15.1	0	0	43.5	43.5	70	N
A1-2-s11	2	26.2	A1-2 Social Welfare Facilities	0	0	47.6	6.3	15.1	0	0	47.6	47.6	70	N
A1-2-s12	1	21.2	A1-2 Social Welfare Facilities	0	0	43.1	6.2	15.1	0	0	43.1	43.1	70	N
A1-2-s12	2	26.2	A1-2 Social Welfare Facilities	0	0	47.3	6.3	15.1	0	0	47.3	47.3	70	N
A1-2-s13	1	21.2	A1-2 Social Welfare Facilities	0	0	41	6.2	14.7	0	0	41	41	70	N
A1-2-s13	2	26.2	A1-2 Social Welfare Facilities	0	0	45.5	6.2	14.7	0	0	45.5	45.5	70	N
A1-8-s1	1	18.7	A1-8 Social Welfare Facilities	7.8	0	20.9	59.6	51.9	31.5	0	60.2	60.2	70	N
A1-8-s1	2	23.7	A1-8 Social Welfare Facilities	8	0	21	59.5	51.9	31.8	0	60.2	60.2	70	N
A1-8-s2	1	18.7	A1-8 Social Welfare Facilities	11.7	0	21.8	66.1	46.2	52.1	0	66.3	66.3	70	N
A1-8-s2	2	23.7	A1-8 Social Welfare Facilities	12.1	0	22.9	66	46.2	52.5	0	66.2	66.2	70	N
A1-8-s3	1	18.7	A1-8 Social Welfare Facilities	7.3	0	24.2	72.3	57.4	47.5	0	72.5	72.5	70	Y
A1-8-s3	2	23.7	A1-8 Social Welfare Facilities	7.4	0	25.4	72	57.1	48.3	0	72.2	72.2	70	Y
A1-8-s4	1	18.7	A1-8 Social Welfare Facilities	0	0	0	41.7	41.6	0	0	44.6	44.6	70	N
A1-8-s4	2	23.7	A1-8 Social Welfare Facilities	0	0	0	41.7	41.6	0	0	44.7	44.7	70	N
A1-8-s5	1	18.7	A1-8 Social Welfare Facilities	6.2	0	18.6	44.3	38.4	39.4	0	46.3	46.3	70	N
A1-8-s5	2	23.7	A1-8 Social Welfare Facilities	6.2	0	18.9	44.3	38.5	39.8	0	46.4	46.4	70	N
A1-8-s6	1	18.7	A1-8 Social Welfare Facilities	14.7	0	13.8	57.9	43.4	0	0	58.1	58.1	70	N
A1-8-s6	2	23.7	A1-8 Social Welfare Facilities	14.7	0	13.7	57	43.4	0	0	57.2	57.2	70	N
A1-8-s7	1	18.7	A1-8 Social Welfare Facilities	0	0	0	31.2	38.9	0	0	39.6	39.6	70	N
A1-8-s7	2	23.7	A1-8 Social Welfare Facilities	0	0	0	31.6	38.9	0	0	39.7	39.7	70	N
A2-2a-s1	1	32.8	A2-2a Social Welfare Facilities	0	0	63.7	67	50.5	0	0	68.7	68.7	70	N
A2-2a-s1	2	38.6	A2-2a Social Welfare Facilities	0	0	63.7	66.9	50.6	0	0	68.7	68.7	70	N
A2-2a-s2	1	32.8	A2-2a Social Welfare Facilities	0	0	58.4	65.4	30.5	0	0	66.2	66.2	70	N
A2-2a-s2	2	38.6	A2-2a Social Welfare Facilities	0	0	58.4	65.5	36.8	0	0	66.2	66.2	70	N
A2-2a-s3	1	32.8	A2-2a Social Welfare Facilities	0	0	17.4	23.7	0	0	0	24.6	24.6	70	N
A2-2a-s3	2	38.6	A2-2a Social Welfare Facilities	0	0	17.4	23.7	0	0	0	24.6	24.6	70	N
A2-2a-s4	1	32.8	A2-2a Social Welfare Facilities	0	0	0	35.5	18.8	0	0	35.6	35.6	70	N
A2-2a-s4	2	38.6	A2-2a Social Welfare Facilities	0	0	0	37.1	18.7	0	0	37.1	37.1	70	N
A2-2a-s5	1	32.8	A2-2a Social Welfare Facilities	13.5	0	59.5	14.5	0	4.5	0	59.5	59.5	70	N
A2-2a-s5	2	38.6	A2-2a Social Welfare Facilities	13.5	0	59.8	14.5	0	4.5	0	59.8	59.8	70	N
A2-2a-s6	1	32.8	A2-2a Social Welfare Facilities	0	0	59	58.4	0	4.3	0	61.7	61.7	70	N
A2-2a-s6	2	38.6	A2-2a Social Welfare Facilities	0	0	60	58.4	0	4.3	0	62.3	62.3	70	N

Title: Detailed Calculation of Road Traffic Noise With Direct Mitigation Measures in place
Scenario: Proposed Social Welfare Facilities in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITH PROJECT									
				Existing Road in 2046, dB(A)	Other Roads in 2046, dB(A)[1]	New Roads[2]						Overall Noise Level in 2046, L_{10} dB(A) [C]	Noise Criteria, dB(A)	Exceedance [4] C > Criteria (Y/N)
						PD	DD	LD	EX	TR	New Roads in 2046 dB(A)[3] [B]			
ID	Floor	Floor Level (mPD)				dB (A)								
A2-2a-s7	1	30.3	A2-2a Social Welfare Facilities	0	3.1	69.7	68.2	46.6	0	0	72.1	72.1	70	Y
A2-2a-s7	2	36.3	A2-2a Social Welfare Facilities	0	3.1	69.6	68.1	46.7	0	0	71.9	71.9	70	Y
A2-2a-s9	1	30.3	A2-2a Social Welfare Facilities	0	0	77.7	51.7	0	38.8	0	77.8	77.8	70	Y
A2-2a-s9	2	36.3	A2-2a Social Welfare Facilities	0	0	77.3	51.6	0	39.4	0	77.3	77.3	70	Y
A2-2a-s9	3	42.3	A2-2a Social Welfare Facilities	0	0	62.4	55.7	21.3	0	0	63.3	63.3	70	N
A2-2a-s9	4	48.3	A2-2a Social Welfare Facilities	0	0	63	55.7	22.8	0	0	63.7	63.7	70	N
A2-2a-s10	1	30.3	A2-2a Social Welfare Facilities	0	0	78.2	58.5	0	20.7	0	78.2	78.2	70	Y
A2-2a-s10	2	36.3	A2-2a Social Welfare Facilities	0	0	77.6	58.4	0	21.3	0	77.6	77.6	70	Y
A2-2a-s11	1	26.3	A2-2a Social Welfare Facilities	31.2	0	70.6	50.6	7.7	21.4	0	70.6	70.6	70	Y
A2-2a-s12	1	26.3	A2-2a Social Welfare Facilities	0	0	35.7	31.7	7.9	0	0	37.1	37.1	70	N
A2-2a-s13	1	26.3	A2-2a Social Welfare Facilities	0	0	55.6	30.2	19.5	0	0	55.6	55.6	70	N
A2-2a-s14	1	26.3	A2-2a Social Welfare Facilities	0	0	32.6	33.7	20.1	0	0	36.3	36.3	70	N
A2-2a-s15	1	26.3	A2-2a Social Welfare Facilities	0	0	0	28.1	21.2	0	0	28.9	28.9	70	N
A2-2a-s16	1	26.3	A2-2a Social Welfare Facilities	0	0	28.3	0	0	0	0	28.3	28.3	70	N
A2-2a-s17	1	26.3	A2-2a Social Welfare Facilities	0	0	46.4	33	26.7	0	0	46.6	46.6	70	N
A2-2a-s18	1	26.3	A2-2a Social Welfare Facilities	0	0	28.9	47.7	21.8	0	0	47.8	47.8	70	N
A2-2a-s19	1	26.3	A2-2a Social Welfare Facilities	0	0	29.2	50.4	21.6	0	0	50.4	50.4	70	N
A2-2a-s20	1	26.3	A2-2a Social Welfare Facilities	0	0	25.6	51.3	21.5	0	0	51.4	51.4	70	N
A2-2a-s21	1	26.3	A2-2a Social Welfare Facilities	0	0	30.2	49.1	23.4	0	0	49.2	49.2	70	N
A2-2a-s22	1	26.3	A2-2a Social Welfare Facilities	0	0	44.2	39.4	31.5	0	0	45.7	45.7	70	N
A2-2a-s23	1	26.3	A2-2a Social Welfare Facilities	0	0	23.8	40.8	38.4	0	0	42.9	42.9	70	N
A2-2a-s24	1	26.3	A2-2a Social Welfare Facilities	0	0	0	28.9	44.7	0	0	44.8	44.8	70	N
A2-2a-s25	1	26.3	A2-2a Social Welfare Facilities	0	0	0	36.5	35.7	0	0	39.1	39.1	70	N
A2-2a-s26	1	26.3	A2-2a Social Welfare Facilities	0	0	23.7	47.4	49.5	0	0	51.6	51.6	70	N
A2-2a-s27	1	26.3	A2-2a Social Welfare Facilities	20.8	0	61.5	39.6	47.6	0	0	61.7	61.7	70	N
A2-2a-s28	1	26.3	A2-2a Social Welfare Facilities	23.3	0	65.8	48	34.7	0	0	65.8	65.8	70	N
A2-2a-s29	1	26.3	A2-2a Social Welfare Facilities	25	0	72.5	47.4	34.2	0	0	72.5	72.5	70	Y
A2-2a-s30	1	26.3	A2-2a Social Welfare Facilities	26.5	0	71.7	35.2	0	36.7	0	71.7	71.7	70	Y
A2-2a-s31	1	26.3	A2-2a Social Welfare Facilities	0	0	60.6	72.7	55.6	3.4	0	73.1	73.1	70	Y
A2-2a-s32	1	26.3	A2-2a Social Welfare Facilities	0	0	0	70.3	56.9	0	0	70.5	70.5	70	Y
A2-2a-s33	1	26.3	A2-2a Social Welfare Facilities	0	0	55.6	74.9	63.5	0	0	75.2	75.2	70	Y
A2-2a-s34	1	26.3	A2-2a Social Welfare Facilities	0	0	0	66.2	60.7	0	0	67.3	67.3	70	N
A2-2a-s35	1	26.3	A2-2a Social Welfare Facilities	12.3	0	30.9	12.3	0	0	0	31	31	70	N
A2-2a-s36	1	26.3	A2-2a Social Welfare Facilities	0	0	59.3	62.3	0	0	0	64.1	64.1	70	N
A2-2a-s37	1	26.3	A2-2a Social Welfare Facilities	0	0	60.2	63.8	0	3.6	0	65.3	65.3	70	N
A2-2a-s38	1	26.3	A2-2a Social Welfare Facilities	0	0	57.4	54.3	37.4	0	0	59.1	59.1	70	N
A2-2a-s39	1	26.3	A2-2a Social Welfare Facilities	0	0	0	57	53.3	0	0	58.5	58.5	70	N
A2-2a-s40	1	26.3	A2-2a Social Welfare Facilities	12.6	0	43.1	13.6	0	0	0	43.2	43.2	70	N
A2-2a-s41	1	26.3	A2-2a Social Welfare Facilities	12.6	0	54.1	60.6	0	0	0	61.5	61.5	70	N
A2-2b-s1	1	22.3	A2-2b Social Welfare Facilities	0	0	35.5	51.2	41.7	0	0	51.8	51.8	70	N
A2-2b-s1	2	28.3	A2-2b Social Welfare Facilities	0	0	39.8	72.1	62.4	0	0	72.5	72.5	70	Y
A2-2b-s1	3	34.3	A2-2b Social Welfare Facilities	0	0	47.4	71.7	62.3	0	0	72.2	72.2	70	Y
A2-2b-s2	1	22.3	A2-2b Social Welfare Facilities	0	0	0	73.2	59.9	0	0	73.4	73.4	70	Y
A2-2b-s2	2	28.3	A2-2b Social Welfare Facilities	0	0	0	72.9	59.9	0	0	73.2	73.2	70	Y
A2-2b-s2	3	34.3	A2-2b Social Welfare Facilities	0	0	0	72.4	59.9	0	0	72.6	72.6	70	Y
A2-2b-s3	1	22.3	A2-2b Social Welfare Facilities	0	0	0	74.2	55.4	0	0	74.3	74.3	70	Y
A2-2b-s3	2	28.3	A2-2b Social Welfare Facilities	0	0	0	73.7	55.4	0	0	73.8	73.8	70	Y
A2-2b-s3	3	34.3	A2-2b Social Welfare Facilities	0	0	0	73.1	55.4	0	0	73.2	73.2	70	Y
A2-2b-s4	1	22.3	A2-2b Social Welfare Facilities	0	0	0	67.1	21.3	0	0	67.1	67.1	70	N
A2-2b-s4	2	28.3	A2-2b Social Welfare Facilities	0	0	0	67	21.3	0	0	67	67	70	N
A2-2b-s4	3	34.3	A2-2b Social Welfare Facilities	0	0	0	66.8	21.4	0	0	66.8	66.8	70	N
A2-2b-s5	1	22.3	A2-2b Social Welfare Facilities	0	0	13.3	34.2	0	0	0	34.2	34.2	70	N

Title: Detailed Calculation of Road Traffic Noise With Direct Mitigation Measures in place
Scenario: Proposed Social Welfare Facilities in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITH PROJECT									
				Existing Road in 2046, dB(A)	Other Roads in 2046, dB(A)[1]	New Roads[2]						Overall Noise Level in 2046, L_{10} dB(A) [C]	Noise Criteria, dB(A)	Exceedance [4] C > Criteria (Y/N)
						PD	DD	LD	EX	TR	New Roads in 2046 dB(A)[3] [B]			
ID	Floor	Floor Level (mPD)				dB (A)								
A2-2b-s5	2	28.3	A2-2b Social Welfare Facilities	0	0	13.3	34.9	0	0	0	34.9	34.9	70	N
A2-2b-s5	3	34.3	A2-2b Social Welfare Facilities	0	0	13.3	35.5	0	0	0	35.6	35.6	70	N
A2-2b-s6	1	22.3	A2-2b Social Welfare Facilities	15.3	0	31.3	10.5	0	0	0	31.3	31.4	70	N
A2-2b-s6	2	28.3	A2-2b Social Welfare Facilities	16.4	0	34.2	10.6	0	0	0	34.3	34.3	70	N
A2-2b-s6	3	34.3	A2-2b Social Welfare Facilities	17.5	0	38.7	10.6	0	0	0	38.7	38.7	70	N
A2-2b-s7	1	22.3	A2-2b Social Welfare Facilities	0	0	15.5	10.8	0	0	0	16.7	16.7	70	N
A2-2b-s7	2	28.3	A2-2b Social Welfare Facilities	0	0	15.5	10.9	0	0	0	16.8	16.8	70	N
A2-2b-s7	3	34.3	A2-2b Social Welfare Facilities	0	0	15.4	10.9	0	0	0	16.7	16.7	70	N
A2-2b-s8	1	22.3	A2-2b Social Welfare Facilities	12	0	33.6	42.2	30.5	0	0	43	43	70	N
A2-2b-s8	2	28.3	A2-2b Social Welfare Facilities	12	0	36.2	50	38.6	0	0	50.5	50.5	70	N
A2-2b-s8	3	34.3	A2-2b Social Welfare Facilities	12.1	0	41.2	52.9	42.2	0	0	53.5	53.5	70	N
A2-2b-s9	1	22.3	A2-2b Social Welfare Facilities	11.9	0	30.8	50.7	44.8	0	0	51.7	51.7	70	N
A2-2b-s9	2	28.3	A2-2b Social Welfare Facilities	11.9	0	30.8	58.7	55.5	0	0	60.4	60.4	70	N
A2-2b-s9	3	34.3	A2-2b Social Welfare Facilities	11.9	0	30.8	64.1	58.2	0	0	65.1	65.1	70	N
A2-2b-s10	1	17.8	A2-2b Social Welfare Facilities	0	4.5	0	76.7	51.6	0	0	76.8	76.8	70	Y
A2-2b-s10	2	23.3	A2-2b Social Welfare Facilities	0	4.5	0	76.3	51.6	0	0	76.3	76.3	70	Y
A2-2b-s11	1	17.8	A2-2b Social Welfare Facilities	0	1.2	0	48.7	10.7	0	0	48.7	48.7	70	N
A2-2b-s11	2	23.3	A2-2b Social Welfare Facilities	0	1.5	0	50.6	10.7	0	0	50.6	50.6	70	N
A2-2b-s12	1	17.8	A2-2b Social Welfare Facilities	0	0	23.1	11.7	0	0	0	23.4	23.4	70	N
A2-2b-s12	2	23.3	A2-2b Social Welfare Facilities	0	0	23.1	11.7	0	0	0	23.4	23.4	70	N
A2-2b-s13	1	17.8	A2-2b Social Welfare Facilities	0	0	23.6	62.8	51.5	0	0	63.1	63.1	70	N
A2-2b-s13	2	23.3	A2-2b Social Welfare Facilities	0	0	23.8	62.8	51.6	0	0	63.1	63.1	70	N
A2-2b-s14	1	17.8	A2-2b Social Welfare Facilities	0	1.4	0	56.8	47.3	0	0	57.3	57.3	70	N
A2-2b-s14	2	23.3	A2-2b Social Welfare Facilities	0	1.6	0	56.8	47.3	0	0	57.3	57.3	70	N
A2-2b-s15	1	17.8	A2-2b Social Welfare Facilities	0	0	0	38.9	17.4	0	0	39	39	70	N
A2-2b-s15	2	23.3	A2-2b Social Welfare Facilities	0	0	0	42.4	17.5	0	0	42.4	42.4	70	N
A2-2b-s16	1	17.8	A2-2b Social Welfare Facilities	0	0	24.2	12.8	0	0	0	24.5	24.5	70	N
A2-2b-s16	2	23.3	A2-2b Social Welfare Facilities	0	0	24.3	13.8	0	0	0	24.7	24.7	70	N
A2-2b-s17	1	17.8	A2-2b Social Welfare Facilities	0	0	24.1	59.2	42.3	0	0	59.3	59.3	70	N
A2-2b-s17	2	23.3	A2-2b Social Welfare Facilities	0	0	24.1	59.2	42.3	0	0	59.3	59.3	70	N
A2-2b-s18	1	22.3	A2-2b Social Welfare Facilities	0	0	0	55.3	6.2	0	0	55.3	55.3	70	N
A2-2b-s18	2	27.8	A2-2b Social Welfare Facilities	0	0	0	55.3	6.2	0	0	55.3	55.3	70	N
A2-2b-s19	1	22.3	A2-2b Social Welfare Facilities	0	0	0	58.2	20	0	0	58.2	58.2	70	N
A2-2b-s19	2	27.8	A2-2b Social Welfare Facilities	0	0	0	58.2	20	0	0	58.2	58.2	70	N
A2-2b-s20	1	22.3	A2-2b Social Welfare Facilities	0	0	0	0	0	0	0	0	0	70	N
A2-2b-s20	2	27.8	A2-2b Social Welfare Facilities	0	0	0	0	0	0	0	0	0	70	N
A2-2b-s21	1	27.8	A2-2b Social Welfare Facilities	0	0	0	28.6	18.1	0	0	29	29	70	N
A2-2b-s22	1	27.8	A2-2b Social Welfare Facilities	0	0	0	28.3	20.2	0	0	28.9	28.9	70	N
A2-2b-s23	1	27.8	A2-2b Social Welfare Facilities	0	0	0	30.4	4.8	0	0	30.4	30.4	70	N
A2-7-s1	1	11.2	A2-7 Social Welfare Facilities	0	0	0	73.1	62.4	0	0	73.5	73.5	70	Y
A2-7-s1	2	16.2	A2-7 Social Welfare Facilities	0	0	0	72.9	62.3	0	0	73.3	73.3	70	Y
A2-7-s1	3	21.2	A2-7 Social Welfare Facilities	0	0	0	72.3	62.2	0	0	72.7	72.7	70	Y
A2-7-s1	4	26.2	A2-7 Social Welfare Facilities	0	0	0	71.6	62.1	0	0	72.1	72.1	70	Y
A2-7-s1	5	31.2	A2-7 Social Welfare Facilities	0	0	0	71	61.9	0	0	71.5	71.5	70	Y
A2-7-s2	1	11.2	A2-7 Social Welfare Facilities	5.8	0	43.7	64.9	63.4	0	0	67.3	67.3	70	N
A2-7-s2	2	16.2	A2-7 Social Welfare Facilities	8	0	43.7	64.9	63.1	0	0	67.1	67.1	70	N
A2-7-s2	3	21.2	A2-7 Social Welfare Facilities	10.4	0	43.8	64.9	62.6	0	0	66.9	66.9	70	N
A2-7-s2	4	26.2	A2-7 Social Welfare Facilities	13.2	0	43.8	64.9	62	0	0	66.7	66.7	70	N
A2-7-s2	5	31.2	A2-7 Social Welfare Facilities	15.1	0	43.9	64.8	61.5	0	0	66.5	66.5	70	N
A2-7-s3	1	11.2	A2-7 Social Welfare Facilities	0	0	17.6	16.3	41.3	0	0	41.3	41.3	70	N
A2-7-s3	2	16.2	A2-7 Social Welfare Facilities	0	0	17.6	16.3	41.3	0	0	41.3	41.3	70	N
A2-7-s3	3	21.2	A2-7 Social Welfare Facilities	0	0	17.6	15.8	41.2	0	0	41.3	41.3	70	N

Title: Detailed Calculation of Road Traffic Noise With Direct Mitigation Measures in place
Scenario: Proposed Social Welfare Facilities in KTN NDA (Mitigated Case on Proposed Roads)

				WITH PROJECT										
Assessment Point			Location	Existing Road in 2046, dB(A)	Other Roads in 2046, dB(A)[1]	New Roads[2]						Overall Noise Level in 2046, L_{10} dB(A) [C]	Noise Criteria, dB(A)	Exceedance [4] C > Criteria (Y/N)
						PD	DD	LD	EX	TR	New Roads in 2046 dB(A)[3] [B]			
ID	Floor	Floor Level (mPD)				dB (A)								
A2-7-s3	4	26.2	A2-7 Social Welfare Facilities	0	0	17.6	15.7	41.1	0	0	41.2	41.2	70	N
A2-7-s3	5	31.2	A2-7 Social Welfare Facilities	0	0	17.6	16	41	0	0	41	41	70	N
A2-7-s4	1	11.2	A2-7 Social Welfare Facilities	0	0	0	63.4	50.9	0	0	63.6	63.6	70	N
A2-7-s4	2	16.2	A2-7 Social Welfare Facilities	0	0	0	63.4	50.9	0	0	63.6	63.6	70	N
A2-7-s4	3	21.2	A2-7 Social Welfare Facilities	0	0	0	63.3	50.9	0	0	63.6	63.6	70	N
A2-7-s4	4	26.2	A2-7 Social Welfare Facilities	0	0	0	63.2	50.8	0	0	63.5	63.5	70	N
A2-7-s4	5	31.2	A2-7 Social Welfare Facilities	0	0	0	63.1	50.8	0	0	63.3	63.3	70	N
A2-7-s5	1	17.2	A2-7 Social Welfare Facilities	11.1	0	47.6	50.3	54.8	0	0	56.7	56.7	70	N
A2-7-s5	2	22.2	A2-7 Social Welfare Facilities	11.1	0	47.6	50.4	54.6	0	0	56.6	56.6	70	N
A2-7-s6	1	17.2	A2-7 Social Welfare Facilities	0	0	39.8	20.5	37.2	0	0	41.8	41.8	70	N
A2-7-s6	2	22.2	A2-7 Social Welfare Facilities	0	0	50.4	20.7	48.9	0	0	52.7	52.7	70	N
A2-7-s7	1	14.7	A2-7 Social Welfare Facilities	0	0	0	32.8	25.9	0	0	33.6	33.6	70	N
A2-7-s7	2	19.7	A2-7 Social Welfare Facilities	0	0	0	33.7	27.7	0	0	34.7	34.7	70	N
A2-7-s8	1	17.2	A2-7 Social Welfare Facilities	8	0	0	51.1	54.7	0	0	56.3	56.3	70	N
A2-7-s8	2	22.2	A2-7 Social Welfare Facilities	8.2	0	0	51.1	54.5	0	0	56.1	56.1	70	N
A2-7-s9	1	17.2	A2-7 Social Welfare Facilities	6.7	0	16.8	32.6	26	0	0	33.6	33.6	70	N
A2-7-s9	2	22.2	A2-7 Social Welfare Facilities	7.2	0	16.8	34.6	27.6	0	0	35.5	35.5	70	N
A2-7-s10	1	17.2	A2-7 Social Welfare Facilities	0	0	0	27	33.7	0	0	34.5	34.5	70	N
A2-7-s10	2	22.2	A2-7 Social Welfare Facilities	0	0	0	27.1	43.8	0	0	43.9	43.9	70	N
A2-7-s11	1	17.2	A2-7 Social Welfare Facilities	0	0	0	52.7	32.4	0	0	52.8	52.8	70	N
A2-7-s11	2	22.2	A2-7 Social Welfare Facilities	0	0	0	52.7	32.7	0	0	52.8	52.8	70	N
A2-7-s12	1	17.2	A2-7 Social Welfare Facilities	0	0	0	36	44.8	0	0	45.4	45.4	70	N
A2-7-s12	2	22.2	A2-7 Social Welfare Facilities	0	0	0	37.5	44.9	0	0	45.6	45.6	70	N
A2-7-s13	1	17.7	A2-7 Social Welfare Facilities	0	0	0	53.2	48.7	0	0	54.5	54.5	70	N
A2-7-s13	2	22.7	A2-7 Social Welfare Facilities	0	0	0	53.2	48.7	0	0	54.5	54.5	70	N
A2-7-s14	1	17.7	A2-7 Social Welfare Facilities	0	0	0	26.9	32.3	0	0	33.4	33.4	70	N
A2-7-s14	2	22.7	A2-7 Social Welfare Facilities	0	0	0	27	39.1	0	0	39.4	39.4	70	N
A2-7-s15	1	17.7	A2-7 Social Welfare Facilities	0	0	0	51.6	40.8	0	0	52	52	70	N
A2-7-s15	2	22.7	A2-7 Social Welfare Facilities	0	0	0	51.6	40.8	0	0	52	52	70	N
A2-7-s16	1	17.7	A2-7 Social Welfare Facilities	0	0	0	36.3	38.5	0	0	40.5	40.5	70	N
A2-7-s16	2	22.7	A2-7 Social Welfare Facilities	0	0	0	36.5	38.5	0	0	40.6	40.6	70	N
A2-7-s17	1	17.7	A2-7 Social Welfare Facilities	0	0	0	63.3	56.5	0	0	64.1	64.1	70	N
A2-7-s17	2	22.7	A2-7 Social Welfare Facilities	0	0	0	63.2	56.5	0	0	64	64	70	N
A2-7-s18	1	17.7	A2-7 Social Welfare Facilities	0	0	12.9	15.9	24.6	0	0	25.4	25.4	70	N
A2-7-s18	2	22.7	A2-7 Social Welfare Facilities	0	0	12.9	15.8	24.7	0	0	25.5	25.5	70	N
A2-7-s19	1	17.7	A2-7 Social Welfare Facilities	0	0	0	60.2	27.6	0	0	60.2	60.2	70	N
A2-7-s19	2	22.7	A2-7 Social Welfare Facilities	0	0	0	60.1	27.8	0	0	60.1	60.1	70	N
A2-7-s20	1	17.7	A2-7 Social Welfare Facilities	0	0	0	71.6	56.3	0	0	71.7	71.7	70	Y
A2-7-s20	2	22.7	A2-7 Social Welfare Facilities	0	0	0	71.3	56.3	0	0	71.4	71.4	70	Y
A3-3a-s1	1	27.7	A3-3a Social Welfare Facilities	0	45.9	46.4	61.9	0	0	0	62	62.1	70	N
A3-3a-s1	2	32.7	A3-3a Social Welfare Facilities	0	46	46.5	61.9	0	0	0	62	62.1	70	N
A3-3a-s2	1	27.7	A3-3a Social Welfare Facilities	7.6	45	41.8	58.4	59.4	0	0	62	62.1	70	N
A3-3a-s2	2	32.7	A3-3a Social Welfare Facilities	7.6	45.4	41.8	58.4	59.3	0	0	61.9	62	70	N
A3-3a-s3	1	27.7	A3-3a Social Welfare Facilities	7.5	0	20.6	45.8	59.5	0	0	59.7	59.7	70	N
A3-3a-s3	2	32.7	A3-3a Social Welfare Facilities	7.5	0	20.6	45.9	59.5	0	0	59.7	59.7	70	N
A3-3a-s4	1	27.7	A3-3a Social Welfare Facilities	0	0	19	55	24.5	0	0	55	55	70	N
A3-3a-s4	2	32.7	A3-3a Social Welfare Facilities	0	0	19	55	24.4	0	0	55	55	70	N
A3-3a-s5	1	27.7	A3-3a Social Welfare Facilities	0	45.1	50	60.2	0	0	0	60.6	60.7	70	N
A3-3a-s5	2	32.7	A3-3a Social Welfare Facilities	0	45.2	50.1	60.2	0	0	0	60.6	60.7	70	N
A3-3a-s6	1	27.7	A3-3a Social Welfare Facilities	5.3	16.8	14.7	55.9	29.5	0	0	55.9	55.9	70	N
A3-3a-s6	2	32.7	A3-3a Social Welfare Facilities	5.3	19.6	15.2	55.9	31.9	0	0	55.9	55.9	70	N
A3-3a-s7	1	27.7	A3-3a Social Welfare Facilities	0	0	13.2	32.4	45.3	0	0	45.5	45.5	70	N

Title: Detailed Calculation of Road Traffic Noise With Direct Mitigation Measures in place
Scenario: Proposed Social Welfare Facilities in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITH PROJECT									Noise Criteria, dB(A)	Exceedance [4] C > Criteria (Y/N)
				Existing Road in 2046, dB(A)	Other Roads in 2046, dB(A)[1]	New Roads[2]						Overall Noise Level in 2046, L_{10} dB(A) [C]		
ID	Floor	Floor Level (mPD)				PD	DD	LD	EX	TR	New Roads in 2046 dB(A)[3] [B]			
						dB (A)								
A3-3a-s7	2	32.7	A3-3a Social Welfare Facilities	0	0	13.4	33.7	45.4	0	0	45.7	45.7	70	N
A3-3a-s8	1	27.7	A3-3a Social Welfare Facilities	0	0	25.4	48.8	30.7	0	0	48.9	48.9	70	N
A3-3a-s8	2	32.7	A3-3a Social Welfare Facilities	0	0	28.2	48.9	31.2	0	0	49	49	70	N
A3-3a-s9	1	27.7	A3-3a Social Welfare Facilities	0	14.1	23.7	31	27	0	0	33	33.1	70	N
A3-3a-s9	2	32.7	A3-3a Social Welfare Facilities	0	16.8	25.9	32	27.6	0	0	34.1	34.2	70	N
A3-3a-s10	1	27.7	A3-3a Social Welfare Facilities	0	10.7	16	49.3	57.9	0	0	58.5	58.5	70	N
A3-3a-s10	2	32.7	A3-3a Social Welfare Facilities	0	10.9	16	49.3	57.8	0	0	58.4	58.4	70	N
A3-3a-s11	1	27.7	A3-3a Social Welfare Facilities	0	0	9.9	33	55.9	0	0	55.9	55.9	70	N
A3-3a-s11	2	32.7	A3-3a Social Welfare Facilities	0	0	9.9	33.2	55.9	0	0	55.9	55.9	70	N
A3-3a-s12	1	27.7	A3-3a Social Welfare Facilities	0	0	25.3	49.8	59.7	0	0	60.1	60.1	70	N
A3-3a-s12	2	32.7	A3-3a Social Welfare Facilities	0	0	26.2	49.9	59.5	0	0	60	60	70	N
A3-3a-s13	1	27.7	A3-3a Social Welfare Facilities	0	5.2	0	26.5	56.3	0	0	56.3	56.3	70	N
A3-3a-s13	2	32.7	A3-3a Social Welfare Facilities	0	6.2	0	26.5	56.2	0	0	56.2	56.2	70	N
A3-3a-s14	1	27.7	A3-3a Social Welfare Facilities	0	0	0	57.7	52.5	0	0	58.8	58.8	70	N
A3-3a-s14	2	32.7	A3-3a Social Welfare Facilities	0	0	0	57.6	52.5	0	0	58.8	58.8	70	N
A3-3a-s15	1	27.7	A3-3a Social Welfare Facilities	0	0	16.7	40.9	48.2	0	0	49	49	70	N
A3-3a-s15	2	32.7	A3-3a Social Welfare Facilities	0	0	16.8	41.1	48.2	0	0	49	49	70	N
A3-3a-s16	1	27.7	A3-3a Social Welfare Facilities	0	5.5	14.3	54.5	30.9	0	0	54.5	54.5	70	N
A3-3a-s16	2	32.7	A3-3a Social Welfare Facilities	0	5.5	14.3	54.5	31.8	0	0	54.5	54.5	70	N
A3-3a-s17	1	27.7	A3-3a Social Welfare Facilities	0	0	0	24.5	49.4	0	0	49.4	49.4	70	N
A3-3a-s17	2	32.7	A3-3a Social Welfare Facilities	0	0	0	24.5	49.4	0	0	49.5	49.5	70	N
A3-3a-s18	1	27.7	A3-3a Social Welfare Facilities	0	0	0	65.3	47	0	0	65.4	65.4	70	N
A3-3a-s18	2	32.7	A3-3a Social Welfare Facilities	0	0	0	65.1	46.9	0	0	65.2	65.2	70	N
A3-3a-s19	1	27.7	A3-3a Social Welfare Facilities	0	0	19.8	74.5	41.2	0	0	74.5	74.5	70	Y
A3-3a-s19	2	32.7	A3-3a Social Welfare Facilities	0	0	19.8	73.8	41.2	0	0	73.8	73.8	70	Y
A3-3a-s20	1	27.7	A3-3a Social Welfare Facilities	0	0	18.5	63.4	27.5	0	0	63.4	63.4	70	N
A3-3a-s20	2	32.7	A3-3a Social Welfare Facilities	0	0	18.9	63.2	28.2	0	0	63.2	63.2	70	N
A3-3a-s21	1	27.7	A3-3a Social Welfare Facilities	0	8.5	0	24.4	53.2	0	0	53.2	53.2	70	N
A3-3a-s21	2	32.7	A3-3a Social Welfare Facilities	0	8.5	0	25.3	53.2	0	0	53.2	53.2	70	N
A3-3a-s22	1	27.7	A3-3a Social Welfare Facilities	0	4.1	0	63.3	25.2	0	0	63.3	63.3	70	N
A3-3a-s22	2	32.7	A3-3a Social Welfare Facilities	0	4.2	0	63.2	25.3	0	0	63.2	63.2	70	N
A3-3a-s23	1	27.7	A3-3a Social Welfare Facilities	0	0	21.1	74.9	43.5	0	0	74.9	74.9	70	Y
A3-3a-s23	2	32.7	A3-3a Social Welfare Facilities	0	0	21.1	74.2	43.5	0	0	74.2	74.2	70	Y
A3-3a-s24	1	27.7	A3-3a Social Welfare Facilities	0	0	22.7	63.7	54.3	0	0	64.1	64.1	70	N
A3-3a-s24	2	32.7	A3-3a Social Welfare Facilities	0	0	22.9	63.6	54.3	0	0	64	64	70	N
A3-3a-s25	1	27.7	A3-3a Social Welfare Facilities	0	2.5	0	53.1	65.2	0	0	65.4	65.4	70	N
A3-3a-s25	2	32.7	A3-3a Social Welfare Facilities	0	2.5	0	53.1	65.1	0	0	65.3	65.3	70	N
A3-3a-s26	1	27.7	A3-3a Social Welfare Facilities	0	5.8	0	64	27.3	0	0	64	64	70	N
A3-3a-s26	2	32.7	A3-3a Social Welfare Facilities	0	5.9	0	63.9	28.5	0	0	63.9	63.9	70	N
A3-3a-s27	1	27.7	A3-3a Social Welfare Facilities	6.9	0	52.2	74.9	48.9	0	0	75	75	70	Y
A3-3a-s27	2	32.7	A3-3a Social Welfare Facilities	6.9	0	52.3	74.2	48.9	0	0	74.3	74.3	70	Y
A3-3a-s28	1	27.7	A3-3a Social Welfare Facilities	0	0	48.2	67.1	63.7	0	0	68.8	68.8	70	N
A3-3a-s28	2	32.7	A3-3a Social Welfare Facilities	0	0	48.6	67	63.6	0	0	68.7	68.7	70	N
A3-3a-s29	1	21.2	A3-3a Social Welfare Facilities	0	0	29.6	56.8	65	0	0	65.7	65.7	70	N
A3-3a-s29	2	26.2	A3-3a Social Welfare Facilities	0	0	30.5	56.8	64.9	0	0	65.6	65.6	70	N
A3-3a-s29	3	31.2	A3-3a Social Welfare Facilities	0	0	31.4	56.8	64.8	0	0	65.4	65.4	70	N
A3-3a-s29	4	36.2	A3-3a Social Welfare Facilities	0	0	32.4	56.7	64.5	0	0	65.2	65.2	70	N
A3-3a-s29	5	41.2	A3-3a Social Welfare Facilities	0	0	33.5	56.8	64.2	0	0	64.9	64.9	70	N
A3-3a-s30	1	21.2	A3-3a Social Welfare Facilities	0	6.4	28.2	47.9	70	0	0	70	70	70	N
A3-3a-s30	2	26.2	A3-3a Social Welfare Facilities	0	6.7	29.2	48	69.6	0	0	69.6	69.6	70	N
A3-3a-s30	3	31.2	A3-3a Social Welfare Facilities	0	6.7	30.3	48.1	69	0	0	69.1	69.1	70	N
A3-3a-s30	4	36.2	A3-3a Social Welfare Facilities	0	6.7	31.4	48.2	68.4	0	0	68.5	68.5	70	N

Title: Detailed Calculation of Road Traffic Noise With Direct Mitigation Measures in place
Scenario: Proposed Social Welfare Facilities in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITH PROJECT									Noise Criteria, dB(A)	Exceedance [4] C > Criteria (Y/N)
				Existing Road in 2046, dB(A)	Other Roads in 2046, dB(A)[1]	New Roads[2]						Overall Noise Level in 2046, L_{10} dB(A) [C]		
ID	Floor	Floor Level (mPD)				PD	DD	LD	EX	TR	New Roads in 2046 dB(A)[3] [B]			
						dB (A)								
A3-3a-s30	5	41.2	A3-3a Social Welfare Facilities	0	6.8	32.4	48.4	67.9	0	0	68	68	70	N
A3-3a-s31	1	21.2	A3-3a Social Welfare Facilities	0	0	26.7	54.1	70.5	0	0	70.6	70.6	70	Y
A3-3a-s31	2	26.2	A3-3a Social Welfare Facilities	0	0	27.9	54.1	69.9	0	0	70	70	70	N
A3-3a-s31	3	31.2	A3-3a Social Welfare Facilities	0	0	29.3	54.1	69.1	0	0	69.3	69.3	70	N
A3-3a-s31	4	36.2	A3-3a Social Welfare Facilities	0	0	30.8	54.1	68.4	0	0	68.5	68.5	70	N
A3-3a-s31	5	41.2	A3-3a Social Welfare Facilities	0	0	32.1	54.1	67.7	0	0	67.9	67.9	70	N
A3-3a-s32	1	21.2	A3-3a Social Welfare Facilities	0	41.1	26.2	58.8	56.3	0	0	60.8	60.8	70	N
A3-3a-s32	2	26.2	A3-3a Social Welfare Facilities	0	41.2	27.6	58.8	56.3	0	0	60.7	60.8	70	N
A3-3a-s32	3	31.2	A3-3a Social Welfare Facilities	0	41.3	29.3	58.9	56.1	0	0	60.7	60.8	70	N
A3-3a-s32	4	36.2	A3-3a Social Welfare Facilities	0	41.3	31.1	58.9	56	0	0	60.7	60.8	70	N
A3-3a-s32	5	41.2	A3-3a Social Welfare Facilities	0	41.4	33.2	59	55.9	0	0	60.8	60.8	70	N
A3-3b-s1	1	18.7	A3-3b Social Welfare Facilities	0	0	23.4	55.6	69.2	0	0	69.4	69.4	70	N
A3-3b-s1	2	23.7	A3-3b Social Welfare Facilities	0	0	23.4	55.6	69.1	0	0	69.3	69.3	70	N
A3-3b-s1	3	28.7	A3-3b Social Welfare Facilities	0	0	23.4	55.6	68.9	0	0	69.1	69.1	70	N
A3-3b-s1	4	33.7	A3-3b Social Welfare Facilities	0	0	23.4	55.6	68.6	0	0	68.8	68.8	70	N
A3-3b-s1	5	38.7	A3-3b Social Welfare Facilities	0	0	23.3	55.6	68.2	0	0	68.4	68.4	70	N
A3-3b-s2	1	18.7	A3-3b Social Welfare Facilities	0	0	18	45.1	56.4	0	0	56.7	56.7	70	N
A3-3b-s2	2	23.7	A3-3b Social Welfare Facilities	0	0	18	45.2	56.4	0	0	56.7	56.7	70	N
A3-3b-s2	3	28.7	A3-3b Social Welfare Facilities	0	0	18	45.2	56.3	0	0	56.6	56.6	70	N
A3-3b-s2	4	33.7	A3-3b Social Welfare Facilities	0	0	18	45.3	56.2	0	0	56.5	56.5	70	N
A3-3b-s2	5	38.7	A3-3b Social Welfare Facilities	0	0	18	45.5	56.1	0	0	56.4	56.4	70	N
A3-3b-s3	1	18.7	A3-3b Social Welfare Facilities	0	0	8.6	55.8	54.4	0	0	58.1	58.1	70	N
A3-3b-s3	2	23.7	A3-3b Social Welfare Facilities	0	0	8.6	55.8	54.3	0	0	58.1	58.1	70	N
A3-3b-s3	3	28.7	A3-3b Social Welfare Facilities	0	0	8.6	55.8	54.2	0	0	58.1	58.1	70	N
A3-3b-s3	4	33.7	A3-3b Social Welfare Facilities	0	0	8.6	55.8	54.1	0	0	58	58	70	N
A3-3b-s3	5	38.7	A3-3b Social Welfare Facilities	0	0	8.6	55.8	53.8	0	0	57.9	57.9	70	N
A3-3b-s4	1	18.7	A3-3b Social Welfare Facilities	0	0	21.9	54.5	68.1	0	0	68.3	68.3	70	N
A3-3b-s4	2	23.7	A3-3b Social Welfare Facilities	0	0	21.9	54.5	68.1	0	0	68.2	68.2	70	N
A3-3b-s4	3	28.7	A3-3b Social Welfare Facilities	0	0	21.9	54.5	67.8	0	0	68	68	70	N
A3-3b-s4	4	33.7	A3-3b Social Welfare Facilities	0	0	21.9	54.5	67.6	0	0	67.8	67.8	70	N
A3-3b-s4	5	38.7	A3-3b Social Welfare Facilities	0	0	21.9	54.5	67.3	0	0	67.5	67.5	70	N
A3-3b-s5	1	25.2	A3-3b Social Welfare Facilities	0	0	23.5	56.3	65.1	0	0	65.6	65.6	70	N
A3-3b-s5	2	30.2	A3-3b Social Welfare Facilities	0	0	23.5	56.3	65	0	0	65.5	65.5	70	N
A3-3b-s6	1	25.2	A3-3b Social Welfare Facilities	0	0	16.3	47.8	52.3	0	0	53.6	53.6	70	N
A3-3b-s6	2	30.2	A3-3b Social Welfare Facilities	0	0	16.5	47.8	52.3	0	0	53.6	53.6	70	N
A3-3b-s7	1	25.2	A3-3b Social Welfare Facilities	0	0	12.7	57.6	47.6	0	0	58	58	70	N
A3-3b-s7	2	30.2	A3-3b Social Welfare Facilities	0	0	12.7	57.6	47.6	0	0	58	58	70	N
A3-3b-s8	1	25.2	A3-3b Social Welfare Facilities	0	0	19.6	29.7	61.1	0	0	61.1	61.1	70	N
A3-3b-s8	2	30.2	A3-3b Social Welfare Facilities	0	0	19.6	30.6	61.1	0	0	61.1	61.1	70	N
A3-3b-s9	1	25.2	A3-3b Social Welfare Facilities	0	0	26	67.6	65.3	0	0	69.6	69.6	70	N
A3-3b-s9	2	30.2	A3-3b Social Welfare Facilities	0	0	26.2	67.5	65.1	0	0	69.5	69.5	70	N
A3-3b-s10	1	25.2	A3-3b Social Welfare Facilities	0	0	11.4	72.4	43.6	0	0	72.4	72.4	70	Y
A3-3b-s10	2	30.2	A3-3b Social Welfare Facilities	0	0	11.4	71.9	43.5	0	0	72	72	70	Y
A3-3b-s11	1	25.2	A3-3b Social Welfare Facilities	0	0	17	61.3	51.3	0	0	61.7	61.7	70	N
A3-3b-s11	2	30.2	A3-3b Social Welfare Facilities	0	0	17.1	61.2	51.3	0	0	61.6	61.6	70	N
A3-3b-s12	1	25.2	A3-3b Social Welfare Facilities	0	0	21.1	47.2	65.4	0	0	65.5	65.5	70	N
A3-3b-s12	2	30.2	A3-3b Social Welfare Facilities	0	0	21.1	47.2	65.3	0	0	65.4	65.4	70	N
A3-3b-s13	1	25.2	A3-3b Social Welfare Facilities	0	0	0	61.3	55.5	0	0	62.3	62.3	70	N
A3-3b-s13	2	30.2	A3-3b Social Welfare Facilities	0	0	0	61.2	55.4	0	0	62.2	62.2	70	N
A3-3b-s14	1	25.2	A3-3b Social Welfare Facilities	0	0	18	73.6	39.9	0	0	73.6	73.6	70	Y
A3-3b-s14	2	30.2	A3-3b Social Welfare Facilities	0	0	18	73	39.9	0	0	73	73	70	Y
A3-3b-s15	1	25.2	A3-3b Social Welfare Facilities	0	0	17.6	65.1	38.3	0	0	65.1	65.1	70	N

Title: Detailed Calculation of Road Traffic Noise With Direct Mitigation Measures in place
Scenario: Proposed Social Welfare Facilities in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITH PROJECT										
				Existing Road in 2046, dB(A)	Other Roads in 2046, dB(A)[1]	New Roads[2]						Overall Noise Level in 2046, L_{10} dB(A) [C]	Noise Criteria, dB(A)	Exceedance [4] C > Criteria (Y/N)
						PD	DD	LD	EX	TR	New Roads in 2046 dB(A)[3] [B]			
ID	Floor	Floor Level (mPD)				dB (A)								
A3-3b-s15	2	30.2	A3-3b Social Welfare Facilities	0	0	17.9	65	38.3	0	0	65	65	70	N
A3-3b-s16	1	25.2	A3-3b Social Welfare Facilities	0	0	0	33	55.8	0	0	55.8	55.8	70	N
A3-3b-s16	2	30.2	A3-3b Social Welfare Facilities	0	0	0	33	55.8	0	0	55.8	55.8	70	N
B2-5-G1	1	18.5	B2-5 Social Welfare Facilities	40.2	0	48.3	65.4	53.3	54.4	0	66	66	70	N
B2-5-G2	1	18.5	B2-5 Social Welfare Facilities	38.2	0	48	65.7	57.4	52.6	0	66.5	66.5	70	N
B2-5-G3	1	18.5	B2-5 Social Welfare Facilities	35.2	0	53.5	66	60.6	51.4	0	67.4	67.4	70	N
B2-5-G4	1	18.5	B2-5 Social Welfare Facilities	0	0	0	26.5	60.5	0	0	60.5	60.5	70	N
B2-5-G5	1	18.5	B2-5 Sick Bay	0	0	0	0	54.8	0	0	54.8	54.8	55	N
B2-5-G6	1	18.5	B2-5 Social Welfare Facilities	0	0	0	0	52	0	0	52	52	70	N
B2-5-G7	1	18.5	B2-5 Social Welfare Facilities	0	0	0	0	52.4	0	0	52.4	52.4	70	N
B2-5-G8	1	18.5	B2-5 Social Welfare Facilities	0	0	6.3	3.9	55.5	0	0	55.5	55.5	70	N
B2-5-G9	1	18.5	B2-5 Social Welfare Facilities	0	0	35.7	8.9	60.6	0	0	60.6	60.6	70	N
B2-5-G10	1	18.5	B2-5 Social Welfare Facilities	0	0	8.3	34.4	58.2	38	0	58.2	58.2	70	N
B2-5-G11	1	18.5	B2-5 Sick Bay	17.6	0	8.2	43.4	53.3	37.7	0	53.8	53.8	55	N
B2-5-G12	1	18.5	B2-5 Sick Bay	34.4	0	0	38.8	55	38.2	0	55.2	55.3	55	N
B2-5-G13	1	18.5	B2-5 Social Welfare Facilities	37.2	0	0	49.1	52.3	38	0	54.1	54.2	70	N
B2-5-1	1	22.6	B2-5 Social Welfare Facilities	45.1	0	57.1	66.3	48.7	60.8	0	67.8	67.8	70	N
B2-5-1	2	25.9	B2-5 Social Welfare Facilities	46.2	0	57.7	66.1	49	61.6	0	67.9	68	70	N
B2-5-1	3	29.2	B2-5 Social Welfare Facilities	47.3	0	58.2	65.9	49.4	62.3	0	68	68.1	70	N
B2-5-1	4	32.5	B2-5 Social Welfare Facilities	48.4	0	58.5	65.8	49.8	63	0	68.2	68.2	70	N
B2-5-1	5	35.8	B2-5 Social Welfare Facilities	49.3	0	58.9	65.7	50.1	63.7	0	68.4	68.5	70	N
B2-5-1	6	39.1	B2-5 Social Welfare Facilities	50.3	0	59.1	65.5	50.2	64.5	0	68.6	68.7	70	N
B2-5-1	7	42.4	B2-5 Social Welfare Facilities	51.1	0	59.3	65.3	50.4	65.3	0	68.9	69	70	N
B2-5-2	1	22.6	B2-5 Social Welfare Facilities	42.7	0	54	65.7	49.8	57.8	0	66.6	66.7	70	N
B2-5-2	2	25.9	B2-5 Social Welfare Facilities	43.2	0	54.4	65.6	49.9	58.2	0	66.7	66.7	70	N
B2-5-2	3	29.2	B2-5 Social Welfare Facilities	43.8	0	54.8	65.4	50	58.7	0	66.6	66.6	70	N
B2-5-2	4	32.5	B2-5 Social Welfare Facilities	44.3	0	55.2	65.3	50.1	59.3	0	66.7	66.7	70	N
B2-5-2	5	35.8	B2-5 Social Welfare Facilities	44.9	0	55.5	65.1	50.2	59.8	0	66.7	66.7	70	N
B2-5-2	6	39.1	B2-5 Social Welfare Facilities	45.5	0	55.8	64.9	50.4	60.4	0	66.7	66.7	70	N
B2-5-2	7	42.4	B2-5 Social Welfare Facilities	46	0	56.1	64.7	50.4	61	0	66.7	66.8	70	N
B2-5-3	1	22.6	B2-5 Social Welfare Facilities	41.6	0	53	65.5	51.2	56.6	0	66.4	66.4	70	N
B2-5-3	2	25.9	B2-5 Social Welfare Facilities	42.1	0	53.4	65.4	51.2	57	0	66.4	66.4	70	N
B2-5-3	3	29.2	B2-5 Social Welfare Facilities	42.5	0	53.9	65.3	51.4	57.5	0	66.3	66.4	70	N
B2-5-3	4	32.5	B2-5 Social Welfare Facilities	43.1	0	54.2	65.1	51.4	58	0	66.3	66.3	70	N
B2-5-3	5	35.8	B2-5 Social Welfare Facilities	43.6	0	54.5	64.9	51.6	58.4	0	66.3	66.3	70	N
B2-5-3	6	39.1	B2-5 Social Welfare Facilities	44.1	0	54.9	64.8	51.7	58.9	0	66.3	66.3	70	N
B2-5-3	7	42.4	B2-5 Social Welfare Facilities	44.6	0	55.2	64.6	51.8	59.4	0	66.3	66.3	70	N
B2-5-4	1	22.6	B2-5 Social Welfare Facilities	39.8	0	49.5	65.4	54.3	54.4	0	66.2	66.2	70	N
B2-5-4	2	25.9	B2-5 Social Welfare Facilities	40.2	0	50	65.4	54.5	54.7	0	66.2	66.2	70	N
B2-5-4	3	29.2	B2-5 Social Welfare Facilities	40.6	0	50.6	65.3	54.6	55.1	0	66.2	66.2	70	N
B2-5-4	4	32.5	B2-5 Social Welfare Facilities	41	0	51.4	65.2	54.9	55.4	0	66.1	66.1	70	N
B2-5-4	5	35.8	B2-5 Social Welfare Facilities	41.6	0	52.3	65	54.9	55.8	0	66.1	66.1	70	N
B2-5-4	6	39.1	B2-5 Social Welfare Facilities	42.1	0	52.8	64.9	55	56.1	0	66	66	70	N
B2-5-4	7	42.4	B2-5 Social Welfare Facilities	42.5	0	53	64.7	54.9	56.5	0	65.9	65.9	70	N
B2-5-5	1	22.6	B2-5 Social Welfare Facilities	38.7	0	50	66	57.6	53	0	66.8	66.8	70	N
B2-5-5	2	25.9	B2-5 Social Welfare Facilities	39	0	51.2	66	57.9	53.3	0	67	67	70	N
B2-5-5	3	29.2	B2-5 Social Welfare Facilities	39.5	0	52.1	65.9	58.2	53.6	0	67	67	70	N
B2-5-5	4	32.5	B2-5 Social Welfare Facilities	39.9	0	53	65.8	58.3	53.9	0	66.9	66.9	70	N
B2-5-5	5	35.8	B2-5 Social Welfare Facilities	40.3	0	53.9	65.6	58.3	54.3	0	66.9	66.9	70	N
B2-5-5	6	39.1	B2-5 Social Welfare Facilities	40.8	0	54.4	65.4	58.2	54.6	0	66.7	66.7	70	N
B2-5-5	7	42.4	B2-5 Social Welfare Facilities	41.2	0	54.6	65.3	58	54.9	0	66.6	66.6	70	N
B2-5-6	1	22.6	B2-5 Social Welfare Facilities	36.7	0	53.9	66.3	60.7	52.2	0	67.7	67.7	70	N

Title: Detailed Calculation of Road Traffic Noise With Direct Mitigation Measures in place
Scenario: Proposed Social Welfare Facilities in KTN NDA (Mitigated Case on Proposed Roads)

				WITH PROJECT									
Assessment Point			Location	Existing Road in 2046, dB(A)	Other Roads in 2046, dB(A)[1]	New Roads[2]					Overall Noise Level in 2046, L_{10} dB(A) [C]	Noise Criteria, dB(A)	Exceedance [4] C > Criteria (Y/N)
						PD	DD	LD	EX	TR	New Roads in 2046 dB(A)[3] [B]			
ID	Floor	Floor Level (mPD)				dB (A)							
B2-5-6	2	25.9	B2-5 Social Welfare Facilities	37.1	0	54.2	66.3	61.5	52.4	0	67.9	67.9	70	N
B2-5-6	3	29.2	B2-5 Social Welfare Facilities	37.4	0	54.5	66.2	61.5	52.7	0	67.8	67.8	70	N
B2-5-6	4	32.5	B2-5 Social Welfare Facilities	37.8	0	55.1	66	61.3	53	0	67.7	67.7	70	N
B2-5-6	5	35.8	B2-5 Social Welfare Facilities	38.2	0	55.7	65.8	61.1	53.3	0	67.5	67.5	70	N
B2-5-6	6	39.1	B2-5 Social Welfare Facilities	38.7	0	56	65.5	60.7	53.6	0	67.3	67.3	70	N
B2-5-6	7	42.4	B2-5 Social Welfare Facilities	38.9	0	56.2	65.2	60.4	53.9	0	67.1	67.1	70	N
B2-5-7	1	22.6	B2-5 Social Welfare Facilities	0	0	0	0	58.8	0	0	58.8	58.8	70	N
B2-5-7	2	25.9	B2-5 Social Welfare Facilities	0	0	0	0	61.7	0	0	61.7	61.7	70	N
B2-5-7	3	29.2	B2-5 Social Welfare Facilities	0	0	0	0	63	0	0	63	63	70	N
B2-5-7	4	32.5	B2-5 Social Welfare Facilities	0	0	0	0	63.5	0	0	63.5	63.5	70	N
B2-5-7	5	35.8	B2-5 Social Welfare Facilities	0	0	0	0	63.5	0	0	63.5	63.5	70	N
B2-5-7	6	39.1	B2-5 Social Welfare Facilities	0	0	0	0	63.5	0	0	63.5	63.5	70	N
B2-5-7	7	42.4	B2-5 Social Welfare Facilities	0	0	0	0	63.2	0	0	63.2	63.2	70	N
B2-5-8	1	22.6	B2-5 Social Welfare Facilities	0	0	0	0	52.5	0	0	52.5	52.5	70	N
B2-5-8	2	25.9	B2-5 Social Welfare Facilities	0	0	0	0	55.1	0	0	55.1	55.1	70	N
B2-5-8	3	29.2	B2-5 Social Welfare Facilities	0	0	0	0	57.3	0	0	57.3	57.3	70	N
B2-5-8	4	32.5	B2-5 Social Welfare Facilities	0	0	0	0	58.4	0	0	58.4	58.4	70	N
B2-5-8	5	35.8	B2-5 Social Welfare Facilities	0	0	0	0	59	0	0	59	59	70	N
B2-5-8	6	39.1	B2-5 Social Welfare Facilities	0	0	0	0	59.4	0	0	59.4	59.4	70	N
B2-5-8	7	42.4	B2-5 Social Welfare Facilities	0	0	0	0	59.5	0	0	59.5	59.5	70	N
B2-5-9	1	22.6	B2-5 Sick Bay	0	0	0	0	48.6	0	0	48.6	48.6	55	N
B2-5-9	2	25.9	B2-5 Sick Bay	0	0	0	0	50.7	0	0	50.7	50.7	55	N
B2-5-9	3	29.2	B2-5 Sick Bay	0	0	0	0	52.7	0	0	52.7	52.7	55	N
B2-5-9	4	32.5	B2-5 Sick Bay	0	0	0	0	54.3	0	0	54.3	54.3	55	N
B2-5-9	5	35.8	B2-5 Sick Bay	0	0	0	0	55.2	0	0	55.2	55.2	55	N
B2-5-9	6	39.1	B2-5 Sick Bay	0	0	0	0	56	0	0	56	56	55	Y
B2-5-9	7	42.4	B2-5 Sick Bay	0	0	0	0	56.4	0	0	56.4	56.4	55	Y
B2-5-10	1	22.6	B2-5 Sick Bay	0	0	0	0	48	0	0	48	48	55	N
B2-5-10	2	25.9	B2-5 Sick Bay	0	0	0	0	49.8	0	0	49.8	49.8	55	N
B2-5-11	1	22.6	B2-5 Sick Bay	0	0	0	0	48.7	0	0	48.7	48.7	55	N
B2-5-11	2	25.9	B2-5 Sick Bay	0	0	0	0	50.7	0	0	50.7	50.7	55	N
B2-5-11	3	29.2	B2-5 Sick Bay	0	0	0	0	52.7	0	0	52.7	52.7	55	N
B2-5-11	4	32.5	B2-5 Sick Bay	0	0	0	0	54.2	0	0	54.2	54.2	55	N
B2-5-11	5	35.8	B2-5 Sick Bay	0	0	0	0	55.2	0	0	55.2	55.2	55	N
B2-5-11	6	39.1	B2-5 Sick Bay	0	0	0	0	55.7	0	0	55.7	55.7	55	Y
B2-5-11	7	42.4	B2-5 Sick Bay	0	0	0	0	56.1	0	0	56.1	56.1	55	Y
B2-5-12	1	22.6	B2-5 Social Welfare Facilities	0	0	6.2	3.8	52.5	0	0	52.5	52.5	70	N
B2-5-12	2	25.9	B2-5 Social Welfare Facilities	0	0	6.2	3.8	55.2	0	0	55.2	55.2	70	N
B2-5-12	3	29.2	B2-5 Social Welfare Facilities	0	0	6.2	3.8	57.3	0	0	57.3	57.3	70	N
B2-5-12	4	32.5	B2-5 Social Welfare Facilities	0	0	6	3.8	58.4	0	0	58.4	58.4	70	N
B2-5-12	5	35.8	B2-5 Social Welfare Facilities	0	0	6	3.8	58.9	0	0	58.9	58.9	70	N
B2-5-12	6	39.1	B2-5 Social Welfare Facilities	0	0	6.2	3.8	59.3	0	0	59.3	59.3	70	N
B2-5-12	7	42.4	B2-5 Social Welfare Facilities	0	0	5.9	3.8	59.3	0	0	59.3	59.3	70	N
B2-5-13	1	22.6	B2-5 Social Welfare Facilities	0	0	37.8	51.1	57	0	0	58	58	70	N
B2-5-13	2	25.9	B2-5 Social Welfare Facilities	0	0	39.6	52.9	60.8	0	0	61.4	61.4	70	N
B2-5-13	3	29.2	B2-5 Social Welfare Facilities	0	0	41.8	53.3	62	0	0	62.6	62.6	70	N
B2-5-13	4	32.5	B2-5 Social Welfare Facilities	0	0	43.9	53.2	62.5	0	0	63	63	70	N
B2-5-13	5	35.8	B2-5 Social Welfare Facilities	0	0	46.3	53	62.4	0	0	63	63	70	N
B2-5-13	6	39.1	B2-5 Social Welfare Facilities	0	0	47.6	52.8	62.2	0	0	62.8	62.8	70	N
B2-5-13	7	42.4	B2-5 Social Welfare Facilities	0	0	48.3	52.6	62	0	0	62.7	62.7	70	N
B2-5-14	1	22.6	B2-5 Social Welfare Facilities	16.1	0	8.2	43.4	64.5	38	0	64.5	64.5	70	N
B2-5-14	2	25.9	B2-5 Social Welfare Facilities	16.1	0	8.3	43.5	64.8	38	0	64.9	64.9	70	N

Title: Detailed Calculation of Road Traffic Noise With Direct Mitigation Measures in place
Scenario: Proposed Social Welfare Facilities in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITH PROJECT									Noise Criteria, dB(A)	Exceedance [4] C > Criteria (Y/N)
				Existing Road in 2046, dB(A)	Other Roads in 2046, dB(A)[1]	New Roads[2]						Overall Noise Level in 2046, L_{10} dB(A) [C]		
ID	Floor	Floor Level (mPD)				PD	DD	LD	EX	TR	New Roads in 2046 dB(A)[3] [B]			
						dB (A)								
B2-5-14	3	29.2	B2-5 Social Welfare Facilities	16.1	0	8.3	43.6	64.8	38	0	64.8	64.8	70	N
B2-5-14	4	32.5	B2-5 Social Welfare Facilities	16.1	0	8.3	43.7	64.7	38.1	0	64.7	64.7	70	N
B2-5-14	5	35.8	B2-5 Social Welfare Facilities	16.1	0	8.3	43.9	64.5	38	0	64.5	64.5	70	N
B2-5-14	6	39.1	B2-5 Social Welfare Facilities	16.1	0	8.1	44	64.2	38	0	64.3	64.3	70	N
B2-5-14	7	42.4	B2-5 Social Welfare Facilities	16.1	0	8.3	44.2	64	38.1	0	64.1	64.1	70	N
B2-5-15	1	22.6	B2-5 Social Welfare Facilities	17.7	0	8.3	43.9	62.9	38.1	0	62.9	62.9	70	N
B2-5-15	2	25.9	B2-5 Social Welfare Facilities	17.7	0	8.3	44	63.2	38.2	0	63.3	63.3	70	N
B2-5-15	3	29.2	B2-5 Social Welfare Facilities	17.7	0	8.3	44.1	63.2	38.4	0	63.3	63.3	70	N
B2-5-15	4	32.5	B2-5 Social Welfare Facilities	17.7	0	8.3	44.2	63.2	38.7	0	63.3	63.3	70	N
B2-5-15	5	35.8	B2-5 Social Welfare Facilities	17.7	0	8.3	44.3	63.1	39.2	0	63.2	63.2	70	N
B2-5-15	6	39.1	B2-5 Social Welfare Facilities	17.7	0	8.3	44.5	63	40	0	63.1	63.1	70	N
B2-5-15	7	42.4	B2-5 Social Welfare Facilities	17.7	0	8.3	44.7	62.8	40.9	0	62.9	62.9	70	N
B2-5-16	1	22.6	B2-5 Social Welfare Facilities	17.7	0	8.2	44.8	61.9	38	0	62	62	70	N
B2-5-16	2	25.9	B2-5 Social Welfare Facilities	17.7	0	8.3	44.9	62.3	38.2	0	62.4	62.4	70	N
B2-5-16	3	29.2	B2-5 Social Welfare Facilities	17.7	0	8.3	45	62.3	38.5	0	62.4	62.4	70	N
B2-5-16	4	32.5	B2-5 Social Welfare Facilities	17.7	0	8.4	45.2	62.3	39	0	62.4	62.4	70	N
B2-5-16	5	35.8	B2-5 Social Welfare Facilities	17.7	0	8.3	45.3	62.2	39.9	0	62.4	62.4	70	N
B2-5-16	6	39.1	B2-5 Social Welfare Facilities	17.7	0	8.3	45.4	62.2	41.5	0	62.3	62.3	70	N
B2-5-16	7	42.4	B2-5 Social Welfare Facilities	17.7	0	8.3	45.9	62.1	42.9	0	62.2	62.2	70	N
B2-5-17	1	22.6	B2-5 Social Welfare Facilities	36.6	0	0	46.8	55.8	38.2	0	56.4	56.5	70	N
B2-5-17	2	25.9	B2-5 Social Welfare Facilities	37.2	0	0	46.9	56.2	38.2	0	56.7	56.8	70	N
B2-5-17	3	29.2	B2-5 Social Welfare Facilities	37.7	0	0	47.1	56.4	38.3	0	57	57	70	N
B2-5-17	4	32.5	B2-5 Social Welfare Facilities	38.3	0	0	47.2	56.6	38.3	0	57.1	57.1	70	N
B2-5-17	5	35.8	B2-5 Social Welfare Facilities	39	0	0	47.3	56.6	38.3	0	57.1	57.2	70	N
B2-5-17	6	39.1	B2-5 Social Welfare Facilities	40	0	0	47.6	56.6	38.4	0	57.2	57.2	70	N
B2-5-17	7	42.4	B2-5 Social Welfare Facilities	41.2	0	0	47.9	56.8	38.4	0	57.4	57.5	70	N
B2-5-18	1	22.6	B2-5 Social Welfare Facilities	39.1	0	0	48.4	52.7	38.2	0	54.2	54.3	70	N
B2-5-18	2	25.9	B2-5 Social Welfare Facilities	40	0	0	48.4	53.1	38.3	0	54.4	54.6	70	N
B2-5-18	3	29.2	B2-5 Social Welfare Facilities	41.1	0	0	48.5	53.3	38.4	0	54.7	54.8	70	N
B2-5-18	4	32.5	B2-5 Social Welfare Facilities	42.1	0	0	48.7	53.5	38.4	0	54.9	55.1	70	N
B2-5-18	5	35.8	B2-5 Social Welfare Facilities	43.3	0	0	48.9	53.7	38.3	0	55	55.3	70	N
B2-5-18	6	39.1	B2-5 Social Welfare Facilities	44.6	0	0	49.2	53.7	38.3	0	55.1	55.5	70	N
B2-5-18	7	42.4	B2-5 Social Welfare Facilities	46.4	0	0	49.7	53.9	38.3	0	55.4	55.9	70	N
B2-5-19	1	22.6	B2-5 Social Welfare Facilities	39.1	0	0	45.6	50.4	38	0	51.8	52	70	N
B2-5-19	2	25.9	B2-5 Social Welfare Facilities	39.9	0	0	46.1	50.6	38.5	0	52.1	52.4	70	N
B2-5-19	3	29.2	B2-5 Social Welfare Facilities	41	0	0	46.5	50.8	38.8	0	52.4	52.7	70	N
B2-5-19	4	32.5	B2-5 Social Welfare Facilities	42.2	0	0	47.1	51	39.4	0	52.7	53.1	70	N
B2-5-19	5	35.8	B2-5 Social Welfare Facilities	43.5	0	0	47.7	51.2	40.4	0	53	53.5	70	N
B2-5-19	6	39.1	B2-5 Social Welfare Facilities	45	0	0	48.5	51.3	42.4	0	53.5	54.1	70	N
B2-5-19	7	42.4	B2-5 Social Welfare Facilities	47.7	0	0	49.7	51.5	46.4	0	54.4	55.3	70	N
B2-5-20	1	22.6	B2-5 Social Welfare Facilities	42.6	0	53.7	57.8	39.3	57.1	0	61.3	61.4	70	N
B2-5-20	2	25.9	B2-5 Social Welfare Facilities	43.9	0	54.3	57.8	41.5	58.1	0	61.9	61.9	70	N
B2-5-20	3	29.2	B2-5 Social Welfare Facilities	45.3	0	54.8	57.8	43	59	0	62.3	62.4	70	N
B2-5-20	4	32.5	B2-5 Social Welfare Facilities	46.7	0	55.2	57.8	44.5	59.8	0	62.8	62.9	70	N
B2-5-20	5	35.8	B2-5 Social Welfare Facilities	48	0	55.5	57.8	45.2	60.9	0	63.5	63.6	70	N
B2-5-20	6	39.1	B2-5 Social Welfare Facilities	49.2	0	55.7	57.8	45.7	62.2	0	64.3	64.4	70	N
B2-5-20	7	42.4	B2-5 Social Welfare Facilities	50	0	55.9	57.9	46	63.4	0	65.1	65.2	70	N
B2-5-21	1	22.6	B2-5 Social Welfare Facilities	37.8	0	0	37.3	0	46.6	0	47.1	47.6	70	N
B2-5-21	2	25.9	B2-5 Social Welfare Facilities	39	0	0	38.1	0	47.7	0	48.1	48.6	70	N
B2-5-21	3	29.2	B2-5 Social Welfare Facilities	40.1	0	0	39	0	48.8	0	49.3	49.8	70	N
B2-5-21	4	32.5	B2-5 Social Welfare Facilities	41.1	0	0	39.9	0	49.9	0	50.3	50.8	70	N
B2-5-21	5	35.8	B2-5 Social Welfare Facilities	41.8	0	0	40.8	0	51	0	51.4	51.9	70	N

Title: Detailed Calculation of Road Traffic Noise With Direct Mitigation Measures in place
Scenario: Proposed Social Welfare Facilities in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITH PROJECT										
				Existing Road in 2046, dB(A)	Other Roads in 2046, dB(A)[1]	New Roads[2]					Overall Noise Level in 2046, L_{10} dB(A) [C]	Noise Criteria, dB(A)	Exceedance [4] C > Criteria (Y/N)
						PD	DD	LD	EX	TR	New Roads in 2046 dB(A)[3] [B]			
ID	Floor	Floor Level (mPD)				dB (A)								
B2-5-21	6	39.1	B2-5 Social Welfare Facilities	42.4	0	0	41.8	0	52.1	0	52.5	52.9	70	N
B2-5-21	7	42.4	B2-5 Social Welfare Facilities	42.9	0	0	42.8	0	53.3	0	53.6	54	70	N
B2-5-22	1	22.6	B2-5 Social Welfare Facilities	36.5	0	0	35.3	0	41.3	0	42.3	43.3	70	N
B2-5-22	2	25.9	B2-5 Social Welfare Facilities	37.4	0	0	36	0	42.4	0	43.3	44.3	70	N
B2-5-22	3	29.2	B2-5 Social Welfare Facilities	38.4	0	0	36.8	0	43.4	0	44.3	45.3	70	N
B2-5-22	4	32.5	B2-5 Social Welfare Facilities	39.2	0	0	37.5	0	44.5	0	45.3	46.2	70	N
B2-5-22	5	35.8	B2-5 Social Welfare Facilities	39.8	0	0	38.1	0	45.5	0	46.3	47.1	70	N
B2-5-22	6	39.1	B2-5 Social Welfare Facilities	40.1	0	0	38.9	0	46.5	0	47.2	48	70	N
B2-5-22	7	42.4	B2-5 Social Welfare Facilities	40.6	0	0	39.6	0	47.5	0	48.1	48.8	70	N
B2-5-23	1	22.6	B2-5 Social Welfare Facilities	37.2	0	0	35.3	0	4.2	0	35.3	39.3	70	N
B2-5-23	2	25.9	B2-5 Social Welfare Facilities	38.5	0	0	35.9	0	5.1	0	35.9	40.4	70	N
B2-5-23	3	29.2	B2-5 Social Welfare Facilities	39.7	0	0	36.7	0	6.3	0	36.7	41.5	70	N
B2-5-23	4	32.5	B2-5 Social Welfare Facilities	40.5	0	0	37.4	0	7.3	0	37.4	42.2	70	N
B2-5-23	5	35.8	B2-5 Social Welfare Facilities	41.1	0	0	38.1	0	8.4	0	38.1	42.9	70	N
B2-5-23	6	39.1	B2-5 Social Welfare Facilities	41.6	0	0	38.9	0	9.6	0	38.9	43.5	70	N
B2-5-23	7	42.4	B2-5 Social Welfare Facilities	42.3	0	0	39.5	0	11	0	39.6	44.2	70	N
B2-5-24	1	22.6	B2-5 Social Welfare Facilities	43.3	0	0	40.5	0	8.5	0	40.5	45.1	70	N
B2-5-24	2	25.9	B2-5 Social Welfare Facilities	44.6	0	0	41.4	0	9.8	0	41.4	46.3	70	N
B2-5-24	3	29.2	B2-5 Social Welfare Facilities	45.6	0	0	42.2	0	11.2	0	42.2	47.2	70	N
B2-5-24	4	32.5	B2-5 Social Welfare Facilities	46.7	0	0	43.1	0	13.1	0	43.1	48.3	70	N
B2-5-24	5	35.8	B2-5 Social Welfare Facilities	47.4	0	0	44	0	14.8	0	44	49	70	N
B2-5-24	6	39.1	B2-5 Social Welfare Facilities	47.8	0	0	44.9	0	17.1	0	44.9	49.6	70	N
B2-5-24	7	42.4	B2-5 Social Welfare Facilities	48.1	0	0	45.6	0	19.3	0	45.6	50.1	70	N
B2-5-25	1	22.6	B2-5 Social Welfare Facilities	38.6	0	0	51.5	0	34.5	0	51.6	51.8	70	N
B2-5-25	2	25.9	B2-5 Social Welfare Facilities	40.7	0	0	51.7	0	35.7	0	51.8	52.1	70	N
B2-5-25	3	29.2	B2-5 Social Welfare Facilities	43	0	0	51.8	0	37.1	0	52	52.5	70	N
B2-5-25	4	32.5	B2-5 Social Welfare Facilities	45.8	0	0	51.9	0	38.9	0	52.2	53.1	70	N
B2-5-25	5	35.8	B2-5 Social Welfare Facilities	47.8	0	0	52.1	0	40.9	0	52.4	53.7	70	N
B2-5-25	6	39.1	B2-5 Social Welfare Facilities	48.5	0	0	52.4	0	43.5	0	52.9	54.2	70	N
B2-5-25	7	42.4	B2-5 Social Welfare Facilities	49	0	0	52.6	0	46.3	0	53.5	54.9	70	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 PC/TKL NDA and modification of connecting roads to NDA.

[4] During the design of the social welfare facilities and kindergartens, noise sensitive uses should be located to avoid exceedance as far as practicable.

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Proposed Kindergartens in KTN NDA (Mitigated Case on Proposed Roads)

				WITH PROJECT									
Assessment Point			Location	Existing Road in 2046, dB(A)	Other Roads in 2046, dB(A)[1]	New Roads[2]					New Roads in 2046, dB(A)[3] [B]	Overall Noise Level in 2046, dB(A) [C]	Noise Criteria, L_{10} (1-hr) dB(A)	Exceedance [4] C > Criteria (Y/N)
ID	Floor	Floor Level (mPD)				PD	DD	LD	EX	TR				
						dB (A)								
A1-2-k1	1	26.2	A1-2 Kindergarten	31.3	0	44.8	56.4	0	39.5	0	56.8	56.8	65	N
A1-2-k2	1	26.2	A1-2 Kindergarten	31.2	0	59.2	53.5	0	39	0	60.3	60.3	65	N
A1-2-k3	1	26.2	A1-2 Kindergarten	31.1	0	59.8	51	0	39.1	0	60.4	60.4	65	N
A1-2-k4	1	26.2	A1-2 Kindergarten	0	0	60.4	25.2	17.4	0	0	60.4	60.4	65	N
A1-2-k5	1	26.2	A1-2 Kindergarten	0	0	59.7	27.9	17.5	0	0	59.7	59.7	65	N
A1-2-k6	1	26.2	A1-2 Kindergarten	0	0	59	27.6	17.6	0	0	59.1	59.1	65	N
A1-2-k7	1	26.2	A1-2 Kindergarten	0	0	58.5	18.5	19	0	0	58.5	58.5	65	N
A1-6-k1	1	24.2	A1-6 Kindergarten	0	0	0	31.2	24.6	0	0	32	32	65	N
A1-6-k2	1	24.2	A1-6 Kindergarten	6.4	0	15.1	50.7	35.4	30.6	0	50.8	50.8	65	N
A1-6-k3	1	24.2	A1-6 Kindergarten	15.7	0	18.6	35.8	30.6	39.4	0	41.4	41.4	65	N
A1-6-k4	1	24.2	A1-6 Kindergarten	15.8	0	12.4	33.8	31.9	25.6	0	36.4	36.4	65	N
A1-6-k5	1	24.2	A1-6 Kindergarten	18.2	0	0	33.4	44.1	21.6	0	44.5	44.5	65	N
A1-6-k6	1	24.2	A1-6 Kindergarten	18	0	14.6	33.2	46.6	30.8	0	46.9	46.9	65	N
A1-6-k7	1	24.2	A1-6 Kindergarten	10.1	0	14.5	33.8	32.6	31.6	0	37.6	37.6	65	N
A1-6-k8	1	24.2	A1-6 Kindergarten	16.1	0	14.8	32.9	50.4	37.6	0	50.7	50.7	65	N
A1-6-k9	1	24.2	A1-6 Kindergarten	14.2	0	11.7	20.8	52.7	0	0	52.7	52.7	65	N
A1-6-k10	1	24.2	A1-6 Kindergarten	0	0	0	48.9	0	0	0	48.9	48.9	65	N
A1-6-k11	1	24.2	A1-6 Kindergarten	0	0	0	33.5	0	0	0	33.5	33.5	65	N
A1-6-k12	1	24.2	A1-6 Kindergarten	0	0	0	41.3	34.6	0	0	42.1	42.1	65	N
A1-6-k13	1	24.2	A1-6 Kindergarten	0	0	0	30.5	22.9	0	0	31.2	31.2	65	N
A1-6-k14	1	24.2	A1-6 Kindergarten	7.1	0	15.8	61.3	20.8	48	0	61.5	61.5	65	N
A1-6-k15	1	24.2	A1-6 Kindergarten	12.1	0	34.6	67.5	67.6	51.4	0	70.6	70.6	65	Y
A1-6-k16	1	24.2	A1-6 Kindergarten	15.7	0	16.4	28.4	58.7	37.6	0	58.7	58.7	65	N
A1-6-k17	1	24.2	A1-6 Kindergarten	0	0	0	36.8	29.9	0	0	37.6	37.6	65	N
A1-6-k18	1	24.2	A1-6 Kindergarten	3	0	6.8	36	58.5	42.9	0	58.7	58.7	65	N
A1-6-k19	1	24.2	A1-6 Kindergarten	16.5	0	34.3	60.9	67.8	43.5	0	68.6	68.6	65	Y
A1-6-k20	1	24.2	A1-6 Kindergarten	21.8	0	22.2	52	60.5	45.1	0	61.2	61.2	65	N
A1-6-k21	1	24.2	A1-6 Kindergarten	0	0	0	20.2	6.7	0	0	20.4	20.4	65	N
A1-8-k1	1	18.7	A1-8 Kindergarten	7.8	0	20.9	59.6	51.9	31.5	0	60.2	60.2	65	N
A1-8-k1	2	23.7	A1-8 Kindergarten	8	0	21	59.5	51.9	31.8	0	60.2	60.2	65	N
A1-8-k2	1	18.7	A1-8 Kindergarten	11.7	0	21.8	66.1	46.2	52.1	0	66.3	66.3	65	Y
A1-8-k2	2	23.7	A1-8 Kindergarten	12.1	0	22.9	66	46.2	52.5	0	66.2	66.2	65	Y
A1-8-k3	1	18.7	A1-8 Kindergarten	7.3	0	24.2	72.3	57.4	47.5	0	72.5	72.5	65	Y
A1-8-k3	2	23.7	A1-8 Kindergarten	7.4	0	25.4	72	57.1	48.3	0	72.2	72.2	65	Y
A1-8-k4	1	18.7	A1-8 Kindergarten	0	0	0	41.7	41.6	0	0	44.6	44.6	65	N
A1-8-k4	2	23.7	A1-8 Kindergarten	0	0	0	41.7	41.6	0	0	44.7	44.7	65	N
A1-8-k5	1	18.7	A1-8 Kindergarten	6.2	0	18.6	44.3	38.4	39.5	0	46.3	46.3	65	N
A1-8-k5	2	23.7	A1-8 Kindergarten	6.2	0	18.9	44.3	38.5	40	0	46.5	46.5	65	N
A1-8-k6	1	18.7	A1-8 Kindergarten	14.5	0	13.9	57.9	43.4	11.8	0	58	58	65	N
A1-8-k6	2	23.7	A1-8 Kindergarten	14.6	0	13.8	57	43.4	11.8	0	57.2	57.2	65	N
A1-8-k7	1	18.7	A1-8 Kindergarten	0	0	0	31.2	38.9	0	0	39.6	39.6	65	N
A1-8-k7	2	23.7	A1-8 Kindergarten	0	0	0	31.6	38.9	0	0	39.7	39.7	65	N
A2-2a-k1	1	32.8	A2-2a Kindergarten	0	0	63.7	67	50.5	0	0	68.7	68.7	65	Y
A2-2a-k1	2	38.6	A2-2a Kindergarten	0	0	63.7	66.9	50.6	0	0	68.7	68.7	65	Y
A2-2a-k2	1	32.8	A2-2a Kindergarten	0	0	58.4	65.4	30.5	0	0	66.2	66.2	65	Y
A2-2a-k2	2	38.6	A2-2a Kindergarten	0	0	58.4	65.5	36.8	0	0	66.2	66.2	65	Y
A2-2a-k3	1	32.8	A2-2a Kindergarten	0	0	17.4	23.7	0	0	0	24.6	24.6	65	N
A2-2a-k3	2	38.6	A2-2a Kindergarten	0	0	17.4	23.7	0	0	0	24.6	24.6	65	N
A2-2a-k4	1	32.8	A2-2a Kindergarten	0	0	0	35.5	18.8	0	0	35.6	35.6	65	N
A2-2a-k4	2	38.6	A2-2a Kindergarten	0	0	0	37.1	18.7	0	0	37.1	37.1	65	N
A2-2a-k5	1	32.8	A2-2a Kindergarten	13.5	0	59.5	14.4	0	4.5	0	59.5	59.5	65	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Proposed Kindergartens in KTN NDA (Mitigated Case on Proposed Roads)

				WITH PROJECT										
Assessment Point			Location	Existing Road in 2046, dB(A)	Other Roads in 2046, dB(A)[1]	New Roads[2]					New Roads in 2046, dB(A)[3] [B]	Overall Noise Level in 2046, dB(A) [C]	Noise Criteria, L_{10} (1-hr) dB(A)	Exceedance [4] C > Criteria (Y/N)
ID	Floor	Floor Level (mPD)				PD	DD	LD	EX	TR				
						dB (A)								
A2-2a-k5	2	38.6	A2-2a Kindergarten	13.5	0	59.8	14.4	0	4.5	0	59.8	59.8	65	N
A2-2a-k6	1	32.8	A2-2a Kindergarten	0	0	59	58.4	0	4.3	0	61.7	61.7	65	N
A2-2a-k6	2	38.6	A2-2a Kindergarten	0	0	60	58.4	0	4.3	0	62.3	62.3	65	N
A2-2a-k7	1	30.3	A2-2a Kindergarten	0	3.1	69.7	68.2	46.6	0	0	72.1	72.1	65	Y
A2-2a-k7	2	36.3	A2-2a Kindergarten	0	3.1	69.6	68.1	46.7	0	0	71.9	71.9	65	Y
A2-2a-k8	1	30.3	A2-2a Kindergarten	0	0	62.4	55.7	21.3	0	0	63.3	63.3	65	N
A2-2a-k8	2	36.3	A2-2a Kindergarten	0	0	63	55.7	22.8	0	0	63.7	63.7	65	N
A2-2a-k9	1	30.3	A2-2a Kindergarten	0	0	77.7	51.7	0	21.3	0	77.8	77.8	65	Y
A2-2a-k9	2	36.3	A2-2a Kindergarten	0	0	77.3	51.6	0	21.9	0	77.3	77.3	65	Y
A2-2a-k10	1	30.3	A2-2a Kindergarten	0	0	78.2	58.5	0	20.7	0	78.2	78.2	65	Y
A2-2a-k10	2	36.3	A2-2a Kindergarten	0	0	77.6	58.4	0	21.3	0	77.6	77.6	65	Y
A2-2a-k11	1	26.3	A2-2a Kindergarten	31.2	0	70.6	50.6	7.7	21.4	0	70.6	70.6	65	Y
A2-2a-k12	1	26.3	A2-2a Kindergarten	0	0	35.7	31.7	8.3	0	0	37.1	37.1	65	N
A2-2a-k13	1	26.3	A2-2a Kindergarten	0	0	55.6	30.2	19.5	0	0	55.6	55.6	65	N
A2-2a-k14	1	26.3	A2-2a Kindergarten	0	0	32.6	33.7	20.1	0	0	36.3	36.3	65	N
A2-2a-k15	1	26.3	A2-2a Kindergarten	0	0	0	28.1	21.2	0	0	28.9	28.9	65	N
A2-2a-k16	1	26.3	A2-2a Kindergarten	0	0	28.3	0	0	0	0	28.3	28.3	65	N
A2-2a-k17	1	26.3	A2-2a Kindergarten	0	0	46.4	33	26.7	0	0	46.6	46.6	65	N
A2-2a-k18	1	26.3	A2-2a Kindergarten	0	0	28.9	47.7	21.8	0	0	47.8	47.8	65	N
A2-2a-k19	1	26.3	A2-2a Kindergarten	0	0	29.2	50.4	21.6	0	0	50.4	50.4	65	N
A2-2a-k20	1	26.3	A2-2a Kindergarten	0	0	25.6	51.3	21.5	0	0	51.4	51.4	65	N
A2-2a-k21	1	26.3	A2-2a Kindergarten	0	0	30.2	49.1	23.4	0	0	49.2	49.2	65	N
A2-2a-k22	1	26.3	A2-2a Kindergarten	0	0	44.2	39.4	31.5	0	0	45.7	45.7	65	N
A2-2a-k23	1	26.3	A2-2a Kindergarten	0	0	23.8	40.8	38.4	0	0	42.9	42.9	65	N
A2-2a-k24	1	26.3	A2-2a Kindergarten	0	0	0	28.9	44.4	0	0	44.6	44.6	65	N
A2-2a-k25	1	26.3	A2-2a Kindergarten	0	0	0	36.5	35.7	0	0	39.1	39.1	65	N
A2-2a-k26	1	26.3	A2-2a Kindergarten	0	0	23.7	47.4	49.4	0	0	51.5	51.5	65	N
A2-2a-k27	1	26.3	A2-2a Kindergarten	20.8	0	61.5	39.6	47.5	0	0	61.7	61.7	65	N
A2-2a-k28	1	26.3	A2-2a Kindergarten	23.4	0	65.8	48	34.6	0	0	65.8	65.8	65	Y
A2-2a-k29	1	26.3	A2-2a Kindergarten	25	0	72.5	47.4	34.1	0	0	72.5	72.5	65	Y
A2-2a-k30	1	26.3	A2-2a Kindergarten	26.5	0	71.7	35.2	0	36.7	0	71.7	71.7	65	Y
A2-2a-k31	1	26.3	A2-2a Kindergarten	0	0	60.6	72.7	55.6	3.4	0	73.1	73.1	65	Y
A2-2a-k32	1	26.3	A2-2a Kindergarten	0	0	0	70.3	56.9	0	0	70.5	70.5	65	Y
A2-2a-k33	1	26.3	A2-2a Kindergarten	0	0	55.6	74.9	63.5	0	0	75.2	75.2	65	Y
A2-2a-k34	1	26.3	A2-2a Kindergarten	0	0	0	66.2	60.7	0	0	67.3	67.3	65	Y
A2-2a-k35	1	26.3	A2-2a Kindergarten	12.5	0	30.9	12.3	0	0	0	31	31	65	N
A2-2a-k36	1	26.3	A2-2a Kindergarten	0	0	59.3	62.3	0	0	0	64.1	64.1	65	N
A2-2a-k37	1	26.3	A2-2a Kindergarten	0	0	60.2	63.8	0	3.6	0	65.3	65.3	65	N
A2-2a-k38	1	26.3	A2-2a Kindergarten	0	0	57.4	54.3	37.4	0	0	59.1	59.1	65	N
A2-2a-k39	1	26.3	A2-2a Kindergarten	0	0	0	57	53.3	0	0	58.5	58.5	65	N
A2-2a-k40	1	26.3	A2-2a Kindergarten	12.6	0	43.1	13.6	0	0	0	43.2	43.2	65	N
A2-2a-k41	1	26.3	A2-2a Kindergarten	12.7	0	54.1	60.6	0	0	0	61.5	61.5	65	N
A2-2b-k1	1	22.3	A2-2b Kindergarten	0	0	35.5	51.2	41.7	0	0	51.8	51.8	65	N
A2-2b-k1	2	28.3	A2-2b Kindergarten	0	0	39.8	72.1	62.4	0	0	72.5	72.5	65	Y
A2-2b-k1	3	34.3	A2-2b Kindergarten	0	0	47.4	71.7	62.3	0	0	72.2	72.2	65	Y
A2-2b-k2	1	22.3	A2-2b Kindergarten	0	0	0	73.2	59.9	0	0	73.4	73.4	65	Y
A2-2b-k2	2	28.3	A2-2b Kindergarten	0	0	0	72.9	59.9	0	0	73.2	73.2	65	Y
A2-2b-k2	3	34.3	A2-2b Kindergarten	0	0	0	72.4	59.9	0	0	72.6	72.6	65	Y
A2-2b-k3	1	22.3	A2-2b Kindergarten	0	0	0	74.2	55.4	0	0	74.3	74.3	65	Y
A2-2b-k3	2	28.3	A2-2b Kindergarten	0	0	0	73.7	55.4	0	0	73.8	73.8	65	Y
A2-2b-k3	3	34.3	A2-2b Kindergarten	0	0	0	73.1	55.4	0	0	73.2	73.2	65	Y

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Proposed Kindergartens in KTN NDA (Mitigated Case on Proposed Roads)

				WITH PROJECT										
Assessment Point			Location	Existing Road in 2046, dB(A)	Other Roads in 2046, dB(A)[1]	New Roads[2]					New Roads in 2046, dB(A)[3] [B]	Overall Noise Level in 2046, dB(A) [C]	Noise Criteria, L_{10} (1-hr) dB(A)	Exceedance [4] C > Criteria (Y/N)
ID	Floor	Floor Level (mPD)				PD	DD	LD	EX	TR				
						dB (A)								
A2-2b-k4	1	22.3	A2-2b Kindergarten	0	0	0	67.1	21.3	0	0	67.1	67.1	65	Y
A2-2b-k4	2	28.3	A2-2b Kindergarten	0	0	0	67	21.3	0	0	67	67	65	Y
A2-2b-k4	3	34.3	A2-2b Kindergarten	0	0	0	66.8	21.4	0	0	66.8	66.8	65	Y
A2-2b-k5	1	22.3	A2-2b Kindergarten	0	0	13.3	34.2	0	0	0	34.2	34.2	65	N
A2-2b-k5	2	28.3	A2-2b Kindergarten	0	0	13.3	34.9	0	0	0	34.9	34.9	65	N
A2-2b-k5	3	34.3	A2-2b Kindergarten	0	0	13.3	35.5	0	0	0	35.5	35.5	65	N
A2-2b-k6	1	22.3	A2-2b Kindergarten	15.3	0	31.3	10.5	0	0	0	31.3	31.4	65	N
A2-2b-k6	2	28.3	A2-2b Kindergarten	16.4	0	34.2	10.6	0	0	0	34.3	34.3	65	N
A2-2b-k6	3	34.3	A2-2b Kindergarten	17.5	0	38.7	10.6	0	0	0	38.7	38.7	65	N
A2-2b-k7	1	22.3	A2-2b Kindergarten	0	0	15.5	10.8	0	0	0	16.7	16.7	65	N
A2-2b-k7	2	28.3	A2-2b Kindergarten	0	0	15.5	10.9	0	0	0	16.8	16.8	65	N
A2-2b-k7	3	34.3	A2-2b Kindergarten	0	0	15.4	10.9	0	0	0	16.7	16.7	65	N
A2-2b-k8	1	22.3	A2-2b Kindergarten	12	0	33.6	42.2	30.5	0	0	43	43	65	N
A2-2b-k8	2	28.3	A2-2b Kindergarten	12	0	36.2	50	38.6	0	0	50.5	50.5	65	N
A2-2b-k8	3	34.3	A2-2b Kindergarten	12.1	0	41.2	52.9	42.2	0	0	53.5	53.5	65	N
A2-2b-k9	1	22.3	A2-2b Kindergarten	12	0	30.8	50.7	44.8	0	0	51.7	51.7	65	N
A2-2b-k9	2	28.3	A2-2b Kindergarten	12	0	30.8	58.7	55.5	0	0	60.4	60.4	65	N
A2-2b-k9	3	34.3	A2-2b Kindergarten	12	0	30.8	64.1	58.2	0	0	65.1	65.1	65	N
A2-2b-k10	1	17.8	A2-2b Kindergarten	0	4.5	0	76.7	51.6	0	0	76.8	76.8	65	Y
A2-2b-k10	2	23.3	A2-2b Kindergarten	0	4.5	0	76.3	51.6	0	0	76.3	76.3	65	Y
A2-2b-k11	1	17.8	A2-2b Kindergarten	0	1.2	0	42.7	10.9	0	0	42.7	42.7	65	N
A2-2b-k11	2	23.3	A2-2b Kindergarten	0	1.5	0	47.7	10.9	0	0	47.7	47.7	65	N
A2-2b-k12	1	17.8	A2-2b Kindergarten	0	0	23.1	11.7	0	0	0	23.4	23.4	65	N
A2-2b-k12	2	23.3	A2-2b Kindergarten	0	0	23.1	11.5	0	0	0	23.4	23.4	65	N
A2-2b-k13	1	17.8	A2-2b Kindergarten	0	0	23.6	62.8	51.5	0	0	63.1	63.1	65	N
A2-2b-k13	2	23.3	A2-2b Kindergarten	0	0	23.8	62.8	51.6	0	0	63.1	63.1	65	N
A2-2b-k14	1	17.8	A2-2b Kindergarten	0	1.4	0	56.8	47.3	0	0	57.3	57.3	65	N
A2-2b-k14	2	23.3	A2-2b Kindergarten	0	1.6	0	56.8	47.3	0	0	57.3	57.3	65	N
A2-2b-k15	1	17.8	A2-2b Kindergarten	0	0	0	38.9	17.4	0	0	38.9	38.9	65	N
A2-2b-k15	2	23.3	A2-2b Kindergarten	0	0	0	42.4	17.5	0	0	42.5	42.5	65	N
A2-2b-k16	1	17.8	A2-2b Kindergarten	0	0	24.2	12.8	0	0	0	24.5	24.5	65	N
A2-2b-k16	2	23.3	A2-2b Kindergarten	0	0	24.3	13.6	0	0	0	24.6	24.6	65	N
A2-2b-k17	1	17.8	A2-2b Kindergarten	0	0	24.1	59.2	42.3	0	0	59.3	59.3	65	N
A2-2b-k17	2	23.3	A2-2b Kindergarten	0	0	24.1	59.2	42.3	0	0	59.3	59.3	65	N
A2-2b-k18	1	22.3	A2-2b Kindergarten	0	0	0	55.3	6.5	0	0	55.3	55.3	65	N
A2-2b-k18	2	27.8	A2-2b Kindergarten	0	0	0	55.3	6.5	0	0	55.3	55.3	65	N
A2-2b-k19	1	22.3	A2-2b Kindergarten	0	0	0	58.2	20	0	0	58.2	58.2	65	N
A2-2b-k19	2	27.8	A2-2b Kindergarten	0	0	0	58.2	20.1	0	0	58.2	58.2	65	N
A2-2b-k20	1	22.3	A2-2b Kindergarten	0	0	0	0	0	0	0	0	0	65	N
A2-2b-k20	2	27.8	A2-2b Kindergarten	0	0	0	0	0	0	0	0	0	65	N
A2-2b-k21	1	27.8	A2-2b Kindergarten	0	0	0	28.6	18.1	0	0	29	29	65	N
A2-2b-k22	1	27.8	A2-2b Kindergarten	0	0	0	28.3	20.2	0	0	28.9	28.9	65	N
A2-2b-k23	1	27.8	A2-2b Kindergarten	0	0	0	30.4	4.8	0	0	30.4	30.4	65	N
A2-5-k1	1	15.2	A2-5 Kindergarten	0	0	0	73.6	47.7	0	0	73.6	73.6	65	Y
A2-5-k1	2	21.2	A2-5 Kindergarten	0	0	0	73.3	47.7	0	0	73.3	73.3	65	Y
A2-5-k2	1	15.2	A2-5 Kindergarten	0	0	0	60.3	43.1	0	0	60.4	60.4	65	N
A2-5-k2	2	21.2	A2-5 Kindergarten	0	0	0	60.2	43.1	0	0	60.3	60.3	65	N
A2-5-k3	1	15.2	A2-5 Kindergarten	0	0	0	51.6	37.5	0	0	51.8	51.8	65	N
A2-5-k3	2	21.2	A2-5 Kindergarten	0	0	0	51.6	37.5	0	0	51.8	51.8	65	N
A2-5-k4	1	15.2	A2-5 Kindergarten	0	0	0	27.4	41.8	0	0	42	42	65	N
A2-5-k4	2	21.2	A2-5 Kindergarten	0	0	0	27.6	42.3	0	0	42.4	42.4	65	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Proposed Kindergartens in KTN NDA (Mitigated Case on Proposed Roads)

				WITH PROJECT										
Assessment Point			Location	Existing Road in 2046, dB(A)	Other Roads in 2046, dB(A)[1]	New Roads[2]					New Roads in 2046, dB(A)[3] [B]	Overall Noise Level in 2046, dB(A) [C]	Noise Criteria, L_{10} (1-hr) dB(A)	Exceedance [4] C > Criteria (Y/N)
ID	Floor	Floor Level (mPD)				PD	DD	LD	EX	TR				
						dB (A)								
A2-5-k5	1	15.2	A2-5 Kindergarten	0	0	0	58.7	14	0	0	58.7	58.7	65	N
A2-5-k5	2	21.2	A2-5 Kindergarten	0	0	0	58.7	14.4	0	0	58.7	58.7	65	N
A2-5-k6	1	15.2	A2-5 Kindergarten	0	0	18.3	65.1	21.9	0	0	65.2	65.2	65	N
A2-5-k6	2	21.2	A2-5 Kindergarten	0	0	18.4	65.1	22.2	0	0	65.2	65.2	65	N
A2-7-k1	1	11.2	A2-7 Kindergarten	0	0	0	73.1	62.4	0	0	73.5	73.5	65	Y
A2-7-k1	2	16.2	A2-7 Kindergarten	0	0	0	72.9	62.3	0	0	73.3	73.3	65	Y
A2-7-k1	3	21.2	A2-7 Kindergarten	0	0	0	72.3	62.2	0	0	72.7	72.7	65	Y
A2-7-k1	4	26.2	A2-7 Kindergarten	0	0	0	71.6	62.1	0	0	72.1	72.1	65	Y
A2-7-k1	5	31.2	A2-7 Kindergarten	0	0	0	71	61.9	0	0	71.5	71.5	65	Y
A2-7-k2	1	11.2	A2-7 Kindergarten	5.8	0	43.7	64.9	63.4	0	0	67.3	67.3	65	Y
A2-7-k2	2	16.2	A2-7 Kindergarten	8	0	43.7	64.9	63.1	0	0	67.1	67.1	65	Y
A2-7-k2	3	21.2	A2-7 Kindergarten	10.4	0	43.8	64.9	62.6	0	0	66.9	66.9	65	Y
A2-7-k2	4	26.2	A2-7 Kindergarten	13.2	0	43.8	64.9	62	0	0	66.7	66.7	65	Y
A2-7-k2	5	31.2	A2-7 Kindergarten	15.1	0	43.9	64.8	61.5	0	0	66.5	66.5	65	Y
A2-7-k3	1	11.2	A2-7 Kindergarten	0	0	17.6	16.3	41.3	0	0	41.3	41.3	65	N
A2-7-k3	2	16.2	A2-7 Kindergarten	0	0	17.6	16.3	41.3	0	0	41.3	41.3	65	N
A2-7-k3	3	21.2	A2-7 Kindergarten	0	0	17.6	15.8	41.2	0	0	41.3	41.3	65	N
A2-7-k3	4	26.2	A2-7 Kindergarten	0	0	17.6	15.7	41.1	0	0	41.2	41.2	65	N
A2-7-k3	5	31.2	A2-7 Kindergarten	0	0	17.6	16	41	0	0	41	41	65	N
A2-7-k4	1	11.2	A2-7 Kindergarten	0	0	0	63.4	50.9	0	0	63.6	63.6	65	N
A2-7-k4	2	16.2	A2-7 Kindergarten	0	0	0	63.4	50.9	0	0	63.6	63.6	65	N
A2-7-k4	3	21.2	A2-7 Kindergarten	0	0	0	63.3	50.9	0	0	63.6	63.6	65	N
A2-7-k4	4	26.2	A2-7 Kindergarten	0	0	0	63.2	50.8	0	0	63.5	63.5	65	N
A2-7-k4	5	31.2	A2-7 Kindergarten	0	0	0	63.1	50.8	0	0	63.3	63.3	65	N
A2-7-k5	1	17.2	A2-7 Kindergarten	11.1	0	47.6	50.3	54.8	0	0	56.7	56.7	65	N
A2-7-k5	2	22.2	A2-7 Kindergarten	11.1	0	47.6	50.4	54.6	0	0	56.6	56.6	65	N
A2-7-k6	1	17.2	A2-7 Kindergarten	0	0	39.8	20.5	37.2	0	0	41.8	41.8	65	N
A2-7-k6	2	22.2	A2-7 Kindergarten	0	0	50.4	20.7	48.9	0	0	52.7	52.7	65	N
A2-7-k7	1	14.7	A2-7 Kindergarten	0	0	0	32.8	25.9	0	0	33.6	33.6	65	N
A2-7-k7	2	19.7	A2-7 Kindergarten	0	0	0	33.7	27.7	0	0	34.7	34.7	65	N
A2-7-k8	1	17.2	A2-7 Kindergarten	8	0	0	51.1	54.7	0	0	56.3	56.3	65	N
A2-7-k8	2	22.2	A2-7 Kindergarten	8.2	0	0	51.1	54.5	0	0	56.1	56.1	65	N
A2-7-k9	1	17.2	A2-7 Kindergarten	6.7	0	16.8	32.6	26	0	0	33.6	33.6	65	N
A2-7-k9	2	22.2	A2-7 Kindergarten	7.2	0	16.8	34.6	27.6	0	0	35.5	35.5	65	N
A2-7-k10	1	17.2	A2-7 Kindergarten	0	0	0	27	33.7	0	0	34.5	34.5	65	N
A2-7-k10	2	22.2	A2-7 Kindergarten	0	0	0	27.1	43.8	0	0	43.9	43.9	65	N
A2-7-k11	1	17.2	A2-7 Kindergarten	0	0	0	52.7	32.4	0	0	52.8	52.8	65	N
A2-7-k11	2	22.2	A2-7 Kindergarten	0	0	0	52.7	32.7	0	0	52.8	52.8	65	N
A2-7-k12	1	17.2	A2-7 Kindergarten	0	0	0	36	44.8	0	0	45.4	45.4	65	N
A2-7-k12	2	22.2	A2-7 Kindergarten	0	0	0	37.5	44.9	0	0	45.6	45.6	65	N
A2-7-k13	1	17.7	A2-7 Kindergarten	0	0	0	53.2	48.7	0	0	54.5	54.5	65	N
A2-7-k13	2	22.7	A2-7 Kindergarten	0	0	0	53.2	48.7	0	0	54.5	54.5	65	N
A2-7-k14	1	17.7	A2-7 Kindergarten	0	0	0	26.9	32.2	0	0	33.3	33.3	65	N
A2-7-k14	2	22.7	A2-7 Kindergarten	0	0	0	27	39.1	0	0	39.4	39.4	65	N
A2-7-k15	1	17.7	A2-7 Kindergarten	0	0	0	51.6	40.8	0	0	52	52	65	N
A2-7-k15	2	22.7	A2-7 Kindergarten	0	0	0	51.6	40.8	0	0	52	52	65	N
A2-7-k16	1	17.7	A2-7 Kindergarten	0	0	0	36.3	38.5	0	0	40.5	40.5	65	N
A2-7-k16	2	22.7	A2-7 Kindergarten	0	0	0	36.5	38.5	0	0	40.6	40.6	65	N
A2-7-k17	1	17.7	A2-7 Kindergarten	0	0	0	63.3	56.5	0	0	64.1	64.1	65	N
A2-7-k17	2	22.7	A2-7 Kindergarten	0	0	0	63.2	56.5	0	0	64	64	65	N
A2-7-k18	1	17.7	A2-7 Kindergarten	0	0	12.9	15.9	24.6	0	0	25.4	25.4	65	N

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Proposed Kindergartens in KTN NDA (Mitigated Case on Proposed Roads)

				WITH PROJECT										
Assessment Point			Location	Existing Road in 2046, dB(A)	Other Roads in 2046, dB(A)[1]	New Roads[2]					New Roads in 2046, dB(A)[3] [B]	Overall Noise Level in 2046, dB(A) [C]	Noise Criteria, L_{10} (1-hr) dB(A)	Exceedance [4] C > Criteria (Y/N)
ID	Floor	Floor Level (mPD)				PD	DD	LD	EX	TR				
						dB (A)								
A2-7-k18	2	22.7	A2-7 Kindergarten	0	0	12.9	15.8	24.7	0	0	25.5	25.5	65	N
A2-7-k19	1	17.7	A2-7 Kindergarten	0	0	0	60.2	27.6	0	0	60.2	60.2	65	N
A2-7-k19	2	22.7	A2-7 Kindergarten	0	0	0	60.1	27.8	0	0	60.1	60.1	65	N
A2-7-k20	1	17.7	A2-7 Kindergarten	0	0	0	71.6	56.3	0	0	71.7	71.7	65	Y
A2-7-k20	2	22.7	A2-7 Kindergarten	0	0	0	71.3	56.3	0	0	71.4	71.4	65	Y
A3-3a-k1	1	27.7	A3-3a Kindergarten	0	45.9	46.4	61.8	0	0	0	62	62.1	65	N
A3-3a-k1	2	32.7	A3-3a Kindergarten	0	46	46.5	61.8	0	0	0	62	62.1	65	N
A3-3a-k2	1	27.7	A3-3a Kindergarten	7.6	45	41.8	58.3	59.4	0	0	62	62	65	N
A3-3a-k2	2	32.7	A3-3a Kindergarten	7.6	45.4	41.8	58.3	59.3	0	0	61.9	62	65	N
A3-3a-k3	1	27.7	A3-3a Kindergarten	7.5	0	20.6	45.8	59.5	0	0	59.7	59.7	65	N
A3-3a-k3	2	32.7	A3-3a Kindergarten	7.5	0	20.6	45.9	59.5	0	0	59.7	59.7	65	N
A3-3a-k4	1	27.7	A3-3a Kindergarten	0	0	19	55	24.5	0	0	55	55	65	N
A3-3a-k4	2	32.7	A3-3a Kindergarten	0	0	19	55	24.4	0	0	55	55	65	N
A3-3a-k5	1	27.7	A3-3a Kindergarten	0	45.1	50	60.1	0	0	0	60.5	60.7	65	N
A3-3a-k5	2	32.7	A3-3a Kindergarten	0	45.2	50.1	60.1	0	0	0	60.5	60.7	65	N
A3-3a-k6	1	27.7	A3-3a Kindergarten	5.3	16.8	14.7	55.9	29.5	0	0	55.9	55.9	65	N
A3-3a-k6	2	32.7	A3-3a Kindergarten	5.3	19.6	15.2	55.9	31.9	0	0	55.9	55.9	65	N
A3-3a-k7	1	27.7	A3-3a Kindergarten	0	0	13.2	32.4	45.3	0	0	45.5	45.5	65	N
A3-3a-k7	2	32.7	A3-3a Kindergarten	0	0	13.4	33.7	45.4	0	0	45.7	45.7	65	N
A3-3a-k8	1	27.7	A3-3a Kindergarten	0	0	25.4	48.8	30.7	0	0	48.9	48.9	65	N
A3-3a-k8	2	32.7	A3-3a Kindergarten	0	0	28.2	48.9	31.2	0	0	49	49	65	N
A3-3a-k9	1	27.7	A3-3a Kindergarten	0	14.1	23.7	31	27	0	0	33	33.1	65	N
A3-3a-k9	2	32.7	A3-3a Kindergarten	0	16.8	25.9	32	27.6	0	0	34.1	34.2	65	N
A3-3a-k10	1	27.7	A3-3a Kindergarten	0	10.7	16	49.3	57.9	0	0	58.5	58.5	65	N
A3-3a-k10	2	32.7	A3-3a Kindergarten	0	10.9	16	49.3	57.8	0	0	58.4	58.4	65	N
A3-3a-k11	1	27.7	A3-3a Kindergarten	0	0	9.9	33	55.9	0	0	55.9	55.9	65	N
A3-3a-k11	2	32.7	A3-3a Kindergarten	0	0	9.9	33.2	55.9	0	0	55.9	55.9	65	N
A3-3a-k12	1	27.7	A3-3a Kindergarten	0	0	25.3	49.8	59.7	0	0	60.1	60.1	65	N
A3-3a-k12	2	32.7	A3-3a Kindergarten	0	0	26.2	49.9	59.5	0	0	60	60	65	N
A3-3a-k13	1	27.7	A3-3a Kindergarten	0	5.2	0	26.5	56.3	0	0	56.3	56.3	65	N
A3-3a-k13	2	32.7	A3-3a Kindergarten	0	6.2	0	26.5	56.2	0	0	56.2	56.2	65	N
A3-3a-k14	1	27.7	A3-3a Kindergarten	0	0	0	57.7	52.5	0	0	58.8	58.8	65	N
A3-3a-k14	2	32.7	A3-3a Kindergarten	0	0	0	57.6	52.5	0	0	58.8	58.8	65	N
A3-3a-k15	1	27.7	A3-3a Kindergarten	0	0	16.7	40.9	48.2	0	0	49	49	65	N
A3-3a-k15	2	32.7	A3-3a Kindergarten	0	0	16.8	41.1	48.2	0	0	49	49	65	N
A3-3a-k16	1	27.7	A3-3a Kindergarten	0	5.5	14.3	54.6	30.9	0	0	54.6	54.6	65	N
A3-3a-k16	2	32.7	A3-3a Kindergarten	0	5.5	14.3	54.6	31.8	0	0	54.6	54.6	65	N
A3-3a-k17	1	27.7	A3-3a Kindergarten	0	0	0	24.8	49.4	0	0	49.4	49.4	65	N
A3-3a-k17	2	32.7	A3-3a Kindergarten	0	0	0	24.8	49.4	0	0	49.5	49.5	65	N
A3-3a-k18	1	27.7	A3-3a Kindergarten	0	0	0	65.3	47	0	0	65.4	65.4	65	N
A3-3a-k18	2	32.7	A3-3a Kindergarten	0	0	0	65.1	46.9	0	0	65.2	65.2	65	N
A3-3a-k19	1	27.7	A3-3a Kindergarten	0	0	19.8	74.5	41.2	0	0	74.5	74.5	65	Y
A3-3a-k19	2	32.7	A3-3a Kindergarten	0	0	19.8	73.8	41.2	0	0	73.8	73.8	65	Y
A3-3a-k20	1	27.7	A3-3a Kindergarten	0	0	18.5	63.4	27.5	0	0	63.4	63.4	65	N
A3-3a-k20	2	32.7	A3-3a Kindergarten	0	0	18.9	63.2	28.2	0	0	63.2	63.2	65	N
A3-3a-k21	1	27.7	A3-3a Kindergarten	0	8.5	0	24.6	53.2	0	0	53.2	53.2	65	N
A3-3a-k21	2	32.7	A3-3a Kindergarten	0	8.5	0	25.5	53.2	0	0	53.2	53.2	65	N
A3-3a-k22	1	27.7	A3-3a Kindergarten	0	4.1	0	63.3	25.2	0	0	63.3	63.3	65	N
A3-3a-k22	2	32.7	A3-3a Kindergarten	0	4.2	0	63.2	25.3	0	0	63.2	63.2	65	N
A3-3a-k23	1	27.7	A3-3a Kindergarten	0	0	21.1	74.9	43.5	0	0	74.9	74.9	65	Y
A3-3a-k23	2	32.7	A3-3a Kindergarten	0	0	21.1	74.2	43.5	0	0	74.2	74.2	65	Y

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Proposed Kindergartens in KTN NDA (Mitigated Case on Proposed Roads)

				WITH PROJECT									
Assessment Point			Location	Existing Road in 2046, dB(A)	Other Roads in 2046, dB(A)[1]	New Roads[2]					Overall Noise Level in 2046, dB(A) [C]	Noise Criteria, L_{10} (1-hr) dB(A)	Exceedance [4] C > Criteria (Y/N)
ID	Floor	Floor Level (mPD)				PD	DD	LD	EX	TR	New Roads in 2046, dB(A)[3] [B]			
						dB (A)							
A3-3a-k24	1	27.7	A3-3a Kindergarten	0	0	22.7	63.7	54.3	0	0	64.1	64.1	65	N
A3-3a-k24	2	32.7	A3-3a Kindergarten	0	0	22.9	63.6	54.3	0	0	64	64	65	N
A3-3a-k25	1	27.7	A3-3a Kindergarten	0	2.5	0	53.1	65.2	0	0	65.4	65.4	65	N
A3-3a-k25	2	32.7	A3-3a Kindergarten	0	2.5	0	53.1	65.1	0	0	65.3	65.3	65	N
A3-3a-k26	1	27.7	A3-3a Kindergarten	0	5.8	0	64	27.3	0	0	64	64	65	N
A3-3a-k26	2	32.7	A3-3a Kindergarten	0	5.9	0	63.9	28.5	0	0	63.9	63.9	65	N
A3-3a-k27	1	27.7	A3-3a Kindergarten	7	0	52.2	74.9	48.9	0	0	75	75	65	Y
A3-3a-k27	2	32.7	A3-3a Kindergarten	7	0	52.3	74.2	48.9	0	0	74.3	74.3	65	Y
A3-3a-k28	1	27.7	A3-3a Kindergarten	0	0	48.2	67.1	63.7	0	0	68.8	68.8	65	Y
A3-3a-k28	2	32.7	A3-3a Kindergarten	0	0	48.6	67	63.6	0	0	68.7	68.7	65	Y
A3-3a-k29	1	21.2	A3-3a Kindergarten	0	0	29.6	56.9	65.4	0	0	66	66	65	Y
A3-3a-k29	2	26.2	A3-3a Kindergarten	0	0	30.5	56.9	65.3	0	0	65.9	65.9	65	Y
A3-3a-k29	3	31.2	A3-3a Kindergarten	0	0	31.4	56.9	65.2	0	0	65.8	65.8	65	Y
A3-3a-k29	4	36.2	A3-3a Kindergarten	0	0	32.4	56.8	65	0	0	65.6	65.6	65	Y
A3-3a-k29	5	41.2	A3-3a Kindergarten	0	0	33.5	56.9	64.6	0	0	65.3	65.3	65	N
A3-3a-k30	1	21.2	A3-3a Kindergarten	0	6.4	28.2	47.8	69.9	0	0	69.9	69.9	65	Y
A3-3a-k30	2	26.2	A3-3a Kindergarten	0	6.7	29.2	47.8	69.5	0	0	69.5	69.5	65	Y
A3-3a-k30	3	31.2	A3-3a Kindergarten	0	6.7	30.3	47.9	68.9	0	0	69	69	65	Y
A3-3a-k30	4	36.2	A3-3a Kindergarten	0	6.7	31.3	48	68.3	0	0	68.4	68.4	65	Y
A3-3a-k30	5	41.2	A3-3a Kindergarten	0	6.7	32.4	48.2	67.8	0	0	67.8	67.8	65	Y
A3-3a-k31	1	21.2	A3-3a Kindergarten	0	0	26.7	53.9	70.6	0	0	70.7	70.7	65	Y
A3-3a-k31	2	26.2	A3-3a Kindergarten	0	0	28	53.9	70	0	0	70.1	70.1	65	Y
A3-3a-k31	3	31.2	A3-3a Kindergarten	0	0	29.4	53.9	69.2	0	0	69.3	69.3	65	Y
A3-3a-k31	4	36.2	A3-3a Kindergarten	0	0	30.8	54	68.4	0	0	68.5	68.5	65	Y
A3-3a-k31	5	41.2	A3-3a Kindergarten	0	0	32.1	54	67.7	0	0	67.9	67.9	65	Y
A3-3a-k32	1	21.2	A3-3a Kindergarten	0	41.1	26.2	58.8	57.3	0	0	61.2	61.2	65	N
A3-3a-k32	2	26.2	A3-3a Kindergarten	0	41.2	27.6	58.8	57.3	0	0	61.1	61.2	65	N
A3-3a-k32	3	31.2	A3-3a Kindergarten	0	41.3	29.3	58.9	57.1	0	0	61.1	61.1	65	N
A3-3a-k32	4	36.2	A3-3a Kindergarten	0	41.3	31.1	58.9	57	0	0	61.1	61.1	65	N
A3-3a-k32	5	41.2	A3-3a Kindergarten	0	41.4	33.2	59	56.9	0	0	61.1	61.1	65	N
A3-3b-k1	1	18.7	A3-3b Kindergarten	0	0	23.4	55.5	69.2	0	0	69.4	69.4	65	Y
A3-3b-k1	2	23.7	A3-3b Kindergarten	0	0	23.4	55.5	69.1	0	0	69.2	69.2	65	Y
A3-3b-k1	3	28.7	A3-3b Kindergarten	0	0	23.4	55.5	68.8	0	0	69	69	65	Y
A3-3b-k1	4	33.7	A3-3b Kindergarten	0	0	23.4	55.5	68.6	0	0	68.8	68.8	65	Y
A3-3b-k1	5	38.7	A3-3b Kindergarten	0	0	23.3	55.5	68.2	0	0	68.4	68.4	65	Y
A3-3b-k2	1	18.7	A3-3b Kindergarten	0	0	18	45.1	56.4	0	0	56.7	56.7	65	N
A3-3b-k2	2	23.7	A3-3b Kindergarten	0	0	18	45.2	56.4	0	0	56.7	56.7	65	N
A3-3b-k2	3	28.7	A3-3b Kindergarten	0	0	18	45.2	56.3	0	0	56.6	56.6	65	N
A3-3b-k2	4	33.7	A3-3b Kindergarten	0	0	18	45.3	56.2	0	0	56.5	56.5	65	N
A3-3b-k2	5	38.7	A3-3b Kindergarten	0	0	18	45.5	56.1	0	0	56.4	56.4	65	N
A3-3b-k3	1	18.7	A3-3b Kindergarten	0	0	8.6	55.7	54.4	0	0	58.1	58.1	65	N
A3-3b-k3	2	23.7	A3-3b Kindergarten	0	0	8.6	55.7	54.3	0	0	58.1	58.1	65	N
A3-3b-k3	3	28.7	A3-3b Kindergarten	0	0	8.6	55.7	54.2	0	0	58	58	65	N
A3-3b-k3	4	33.7	A3-3b Kindergarten	0	0	8.6	55.7	54.1	0	0	58	58	65	N
A3-3b-k3	5	38.7	A3-3b Kindergarten	0	0	8.6	55.7	53.8	0	0	57.9	57.9	65	N
A3-3b-k4	1	18.7	A3-3b Kindergarten	0	0	21.9	54.4	68.1	0	0	68.3	68.3	65	Y
A3-3b-k4	2	23.7	A3-3b Kindergarten	0	0	21.9	54.4	68	0	0	68.2	68.2	65	Y
A3-3b-k4	3	28.7	A3-3b Kindergarten	0	0	21.9	54.4	67.8	0	0	68	68	65	Y
A3-3b-k4	4	33.7	A3-3b Kindergarten	0	0	21.9	54.4	67.6	0	0	67.8	67.8	65	Y
A3-3b-k4	5	38.7	A3-3b Kindergarten	0	0	21.9	54.4	67.2	0	0	67.5	67.5	65	Y
A3-3b-k5	1	25.2	A3-3b Kindergarten	0	0	23.5	56.3	65	0	0	65.6	65.6	65	Y

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Proposed Kindergartens in KTN NDA (Mitigated Case on Proposed Roads)

				WITH PROJECT										
Assessment Point			Location	Existing Road in 2046, dB(A)	Other Roads in 2046, dB(A)[1]	New Roads[2]					New Roads in 2046, dB(A)[3] [B]	Overall Noise Level in 2046, dB(A) [C]	Noise Criteria, L_{10} (1-hr) dB(A)	Exceedance [4] C > Criteria (Y/N)
ID	Floor	Floor Level (mPD)				PD	DD	LD	EX	TR				
						dB (A)								
A3-3b-k5	2	30.2	A3-3b Kindergarten	0	0	23.5	56.3	64.9	0	0	65.5	65.5	65	Y
A3-3b-k6	1	25.2	A3-3b Kindergarten	0	0	16.3	47.8	52.3	0	0	53.6	53.6	65	N
A3-3b-k6	2	30.2	A3-3b Kindergarten	0	0	16.5	47.8	52.3	0	0	53.6	53.6	65	N
A3-3b-k7	1	25.2	A3-3b Kindergarten	0	0	12.7	57.6	47.6	0	0	58	58	65	N
A3-3b-k7	2	30.2	A3-3b Kindergarten	0	0	12.7	57.6	47.6	0	0	58	58	65	N
A3-3b-k8	1	25.2	A3-3b Kindergarten	0	0	19.6	29.7	61.1	0	0	61.1	61.1	65	N
A3-3b-k8	2	30.2	A3-3b Kindergarten	0	0	19.6	30.6	61.1	0	0	61.1	61.1	65	N
A3-3b-k9	1	25.2	A3-3b Kindergarten	0	0	26	67.6	65.3	0	0	69.6	69.6	65	Y
A3-3b-k9	2	30.2	A3-3b Kindergarten	0	0	26.2	67.5	65.1	0	0	69.5	69.5	65	Y
A3-3b-k10	1	25.2	A3-3b Kindergarten	0	0	11.4	72.4	43.6	0	0	72.4	72.4	65	Y
A3-3b-k10	2	30.2	A3-3b Kindergarten	0	0	11.4	71.9	43.5	0	0	72	72	65	Y
A3-3b-k11	1	25.2	A3-3b Kindergarten	0	0	17	61.3	51.3	0	0	61.7	61.7	65	N
A3-3b-k11	2	30.2	A3-3b Kindergarten	0	0	17.1	61.2	51.3	0	0	61.6	61.6	65	N
A3-3b-k12	1	25.2	A3-3b Kindergarten	0	0	21.1	47.2	65.4	0	0	65.5	65.5	65	Y
A3-3b-k12	2	30.2	A3-3b Kindergarten	0	0	21.1	47.2	65.3	0	0	65.4	65.4	65	N
A3-3b-k13	1	25.2	A3-3b Kindergarten	0	0	0	61.3	55.4	0	0	62.3	62.3	65	N
A3-3b-k13	2	30.2	A3-3b Kindergarten	0	0	0	61.2	55.3	0	0	62.2	62.2	65	N
A3-3b-k14	1	25.2	A3-3b Kindergarten	0	0	18	73.6	39.9	0	0	73.6	73.6	65	Y
A3-3b-k14	2	30.2	A3-3b Kindergarten	0	0	18	73	39.9	0	0	73	73	65	Y
A3-3b-k15	1	25.2	A3-3b Kindergarten	0	0	17.6	65.1	38.3	0	0	65.1	65.1	65	N
A3-3b-k15	2	30.2	A3-3b Kindergarten	0	0	17.9	65	38.3	0	0	65	65	65	N
A3-3b-k16	1	25.2	A3-3b Kindergarten	0	0	0	33	55.8	0	0	55.8	55.8	65	N
A3-3b-k16	2	30.2	A3-3b Kindergarten	0	0	0	32.9	55.8	0	0	55.8	55.8	65	N
B2-7-k1	1	17.7	B2-7 Kindergarten	0	0	19	56.4	67.9	0	0	68.2	68.2	65	Y
B2-7-k2	1	17.7	B2-7 Kindergarten	31.7	0	10.3	59.2	58.2	54.1	0	62.4	62.4	65	N
B2-7-k3	1	17.7	B2-7 Kindergarten	34.7	0	23.4	55.2	2.4	52.6	0	57.1	57.1	65	N
B2-7-k4	1	17.7	B2-7 Kindergarten	23.1	0	26.7	52.2	61.7	40.5	0	62.2	62.2	65	N
B2-10-k1	1	17.7	B2-10 Kindergarten	0	0	0	61.7	69.2	0	0	69.9	69.9	65	Y
B2-10-k1	2	22.7	B2-10 Kindergarten	0	0	0	61.4	69.1	0	0	69.7	69.7	65	Y
B2-10-k1	3	27.7	B2-10 Kindergarten	0	0	0	61.1	68.8	0	0	69.4	69.4	65	Y
B2-10-k1	4	32.7	B2-10 Kindergarten	0	0	0	60.7	68.4	0	0	69.1	69.1	65	Y
B2-10-k1	5	37.7	B2-10 Kindergarten	0	0	0	60.3	67.9	0	0	68.6	68.6	65	Y
B2-10-k2	1	17.7	B2-10 Kindergarten	6	0	15.9	69.1	59.8	53.9	0	69.7	69.7	65	Y
B2-10-k2	2	22.7	B2-10 Kindergarten	6	0	15.9	69.1	59.8	54.5	0	69.7	69.7	65	Y
B2-10-k2	3	27.7	B2-10 Kindergarten	6.1	0	16.5	68.9	59.7	55.1	0	69.6	69.6	65	Y
B2-10-k2	4	32.7	B2-10 Kindergarten	7.4	0	18.6	68.7	59.6	55.6	0	69.4	69.4	65	Y
B2-10-k2	5	37.7	B2-10 Kindergarten	10	0	21.2	68.5	59.5	56.3	0	69.3	69.3	65	Y
B2-10-k3	1	17.7	B2-10 Kindergarten	42.4	0	29	69.2	54.9	58.2	0	69.7	69.7	65	Y
B2-10-k3	2	22.7	B2-10 Kindergarten	43.9	0	29.9	69.1	54.9	59	0	69.7	69.7	65	Y
B2-10-k3	3	27.7	B2-10 Kindergarten	45.7	0	31	69	54.9	59.9	0	69.6	69.6	65	Y
B2-10-k3	4	32.7	B2-10 Kindergarten	47.6	0	31.8	68.8	54.8	60.7	0	69.6	69.6	65	Y
B2-10-k3	5	37.7	B2-10 Kindergarten	49.5	0	32.8	68.5	54.8	61.3	0	69.4	69.5	65	Y
B2-10-k4	1	17.7	B2-10 Kindergarten	47.9	0	17.9	67.4	0	61.3	0	68.4	68.4	65	Y
B2-10-k4	2	22.7	B2-10 Kindergarten	50.3	0	18	67.4	0	62.4	0	68.6	68.6	65	Y
B2-10-k4	3	27.7	B2-10 Kindergarten	52.6	0	17.9	67.3	0	63.4	0	68.8	68.9	65	Y
B2-10-k4	4	32.7	B2-10 Kindergarten	54.7	0	18.5	67.2	0	64.4	0	69	69.2	65	Y
B2-10-k4	5	37.7	B2-10 Kindergarten	56.1	0	19.5	67.1	0	65.4	0	69.4	69.6	65	Y
B2-10-k5	1	17.7	B2-10 Kindergarten	47.7	0	17.6	63.9	0	58	0	64.9	65	65	N
B2-10-k5	2	22.7	B2-10 Kindergarten	49.8	0	17.7	63.9	0	58.7	0	65	65.1	65	N
B2-10-k5	3	27.7	B2-10 Kindergarten	51.8	0	17.6	63.8	0	59.4	0	65.2	65.4	65	N
B2-10-k5	4	32.7	B2-10 Kindergarten	53.6	0	17.7	63.8	0	60.2	0	65.4	65.7	65	Y

Title: Detailed Calculation of Road Traffic Noise with Direct Mitigation Measures in place
Scenario: Proposed Kindergartens in KTN NDA (Mitigated Case on Proposed Roads)

Assessment Point			Location	WITH PROJECT									
				Existing Road in 2046, dB(A)	Other Roads in 2046, dB(A)[1]	New Roads[2]					Overall Noise Level in 2046, dB(A) [C]	Noise Criteria, L_{10} (1-hr) dB(A)	Exceedance [4] C > Criteria (Y/N)
						PD	DD	LD	EX	TR	New Roads in 2046, dB(A)[3] [B]			
ID	Floor	Floor Level (mPD)				dB (A)							
B2-10-k5	5	37.7	B2-10 Kindergarten	54.7	0	17.7	63.8	0	61.1	0	65.7	66	65	Y
B2-10-k6	1	17.7	B2-10 Kindergarten	14.8	0	19.3	59	55.8	50.1	0	61	61	65	N
B2-10-k6	2	22.7	B2-10 Kindergarten	14.8	0	19.3	59	55.8	50.7	0	61.1	61.1	65	N
B2-10-k6	3	27.7	B2-10 Kindergarten	14.8	0	19.3	58.9	55.7	51.3	0	61.1	61.1	65	N
B2-10-k6	4	32.7	B2-10 Kindergarten	14.8	0	19.4	58.9	55.7	51.9	0	61.1	61.1	65	N
B2-10-k6	5	37.7	B2-10 Kindergarten	14.8	0	19.4	58.9	55.6	52.5	0	61.2	61.2	65	N
B2-10-k7	1	17.7	B2-10 Kindergarten	15.6	0	20.3	56.3	60.8	47.6	0	62.2	62.2	65	N
B2-10-k7	2	22.7	B2-10 Kindergarten	15.6	0	20.4	56.3	60.7	48	0	62.3	62.3	65	N
B2-10-k7	3	27.7	B2-10 Kindergarten	15.6	0	20.4	56.3	60.7	48.4	0	62.2	62.2	65	N
B2-10-k7	4	32.7	B2-10 Kindergarten	15.6	0	20.5	56.3	60.5	48.8	0	62.1	62.1	65	N
B2-10-k7	5	37.7	B2-10 Kindergarten	15.6	0	20.5	56.3	60.3	49.3	0	62	62	65	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 PC/TKL NDA and modification of connecting roads to NDA.

[4] During the design of the social welfare facilities and kindergartens, noise sensitive uses should be located to avoid exceedance as far as practicable.

Appendix 2.4
Summary of Road Traffic Noise Mitigation Proposal for DP3

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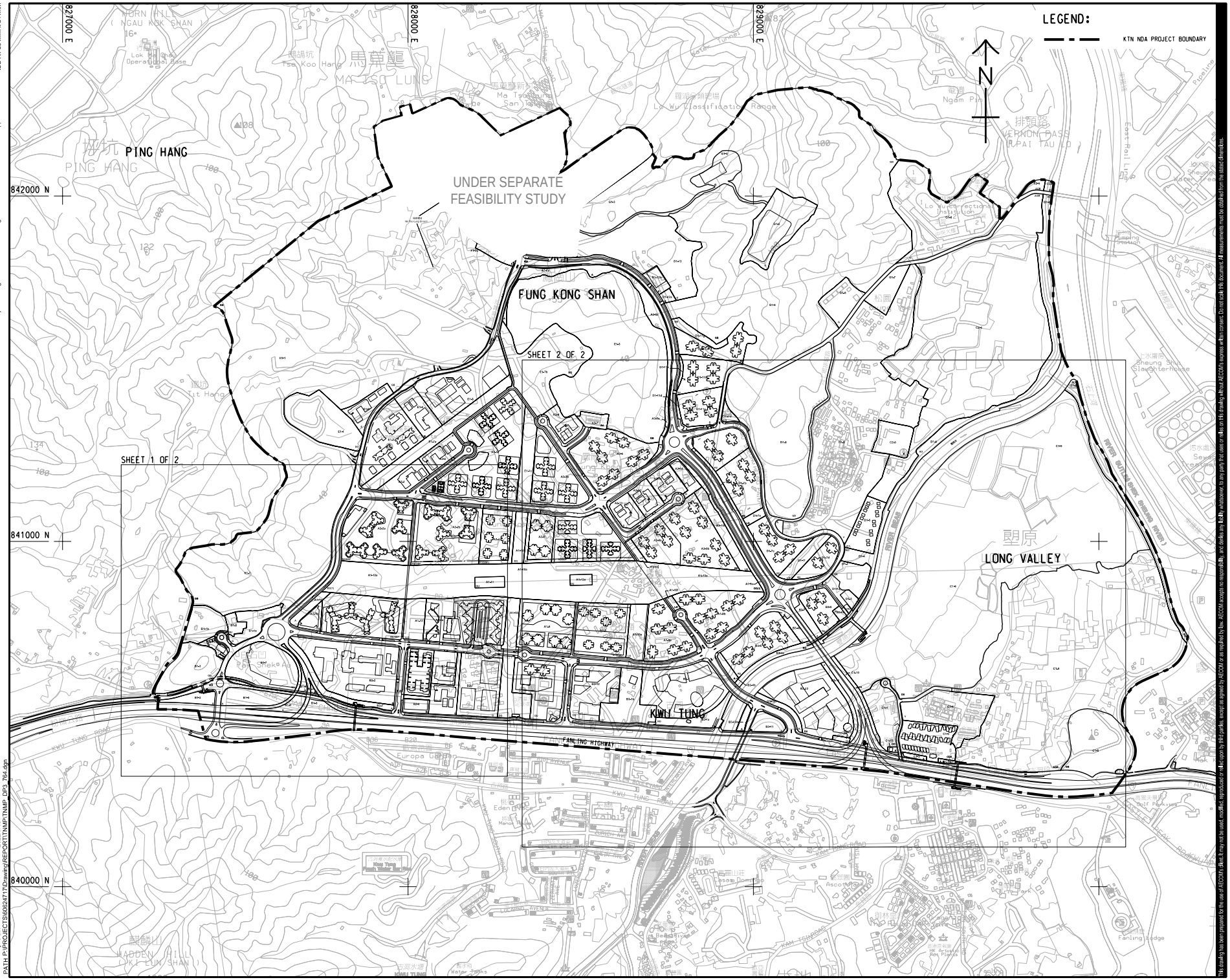
Appendix 2.4
Summary of Road Traffic Noise Mitigation Proposal for DP3

Project Area	Road where Mitigation Measures in Place	Mitigation Measure ID	Hong Kong Grid Coordinates (1)	Type and Approximate Extent of Mitigation Measures				Implementation Programme - Mitigation Measures in Place before Population Intake at Site(s)
				Type (2)	Length, m	Height, m	Area, m^2	
Construction and operation of KTN NDA Road P1, P2 and Associated New Kwu Tung Interchange and Pak Shek Au Interchange Improvement	P2	KTN-NB10	(828796, 841248) – (828871, 841166)	CNB7+3	112	9.1	-	To be in place before the commissioning year of the planned school at Site A2-13
	P2	KTN-NB11	(828808, 841275) – (828891, 841177)	NB	128	7	-	D1-7a, D1-7b
	P2	KTN-NB12	(828967, 840990) – (828996, 840939)	CNB7+3	58	9.1		A2-9b
	P2	KTN-NB13	(828990, 841002) – (829033, 840928)	CNB7+3	86	9.1	-	D1-7c
	P2	KTN-NB16	(829121, 840768) – (829153, 840723)	CNB7+3	55	9.1	-	B3-5a
	P2	KTN-NB17	(829119, 840804) – (829221, 840666)	CNB7+3	172	9.1	-	B3-8
	P2	KTN-NB35	(828960, 840364) – (829205, 840349)	CNB5+3	246	7.1	-	To be in place before population intake of the planned developments at Kwu Tung South
	P2	KTN-NB46	(829404, 840333) – (829530, 840303)	NB	130	5	-	To be in place before commissioning of Project for protecting existing NSRs at KTN-1, KTN-2 and KTN-4
	P2	KTN-NB47	(829530, 840303) – (829808, 840259)	CNB5+3	282	7.1	-	To be in place before commissioning of Project for protecting existing NSRs at KTN-1, KTN-2 and KTN-4
	P2	KTN-LN06	(828830, 841230) – (829028, 840909)	LNRS	378	-	6884	A1-9b, A2-9b, A2-13, D1-7a to D1-7d
	P1	KTN-LN07	(827791, 841026) – (827788, 840939)	LNRS	87	-	1511	A2-2a
	P1	KTN-LN08	(827756, 840882) – (827681, 840814)	LNRS	102	-	1821	A1-2
	P2	KTN-LN13	(829096, 840822) – (829183, 840700)	LNRS	150	-	1759	B3-5a, B3-8
	P2	KTN-LN14	(829605, 840296) – (829629, 840292)	LNRS	24	-	222	To be in place before commissioning of Project for protecting existing NSRs at KTN-1, KTN-2 and KTN-4

Notes:
(1) The Project Proponent will engage Detailed Design Consultants to supplement the exact locations and approximate chainage of the noise mitigation measures. The TNMP will be further revised to supplement this design information and submitted for EPD's approval no later than one month before the commencement of the construction of noise mitigation measures under the remaining phase.
(2) CNB5+3 – 5m vertical noise barrier with 3m cantilevered arm at 45º
CNB7+3 – 7m vertical noise barrier with 3m cantilevered arm at 45º
LNRS – Low noise road surfacing
NB – Noise Barrier
*All the proposed noise barriers are absorptive in terms of acoustic characteristics.



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PROJECT

DEVELOPMENT OF KWU TUNG NORTH NEW DEVELOPMENT AREA, REMAINING PHASE - DESIGN & CONSTRUCTION

CLIENT

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PROJECT NO. 60624717

CONTRACT NO. CE 19/2019 (CE)

SHEET TITLE

UPDATED TRAFFIC NOISE MITIGATION MEASURES PLAN (FOR DP3) - KEY PLAN

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60624717/TNMP/DP3/APPENDIX 2.4.1

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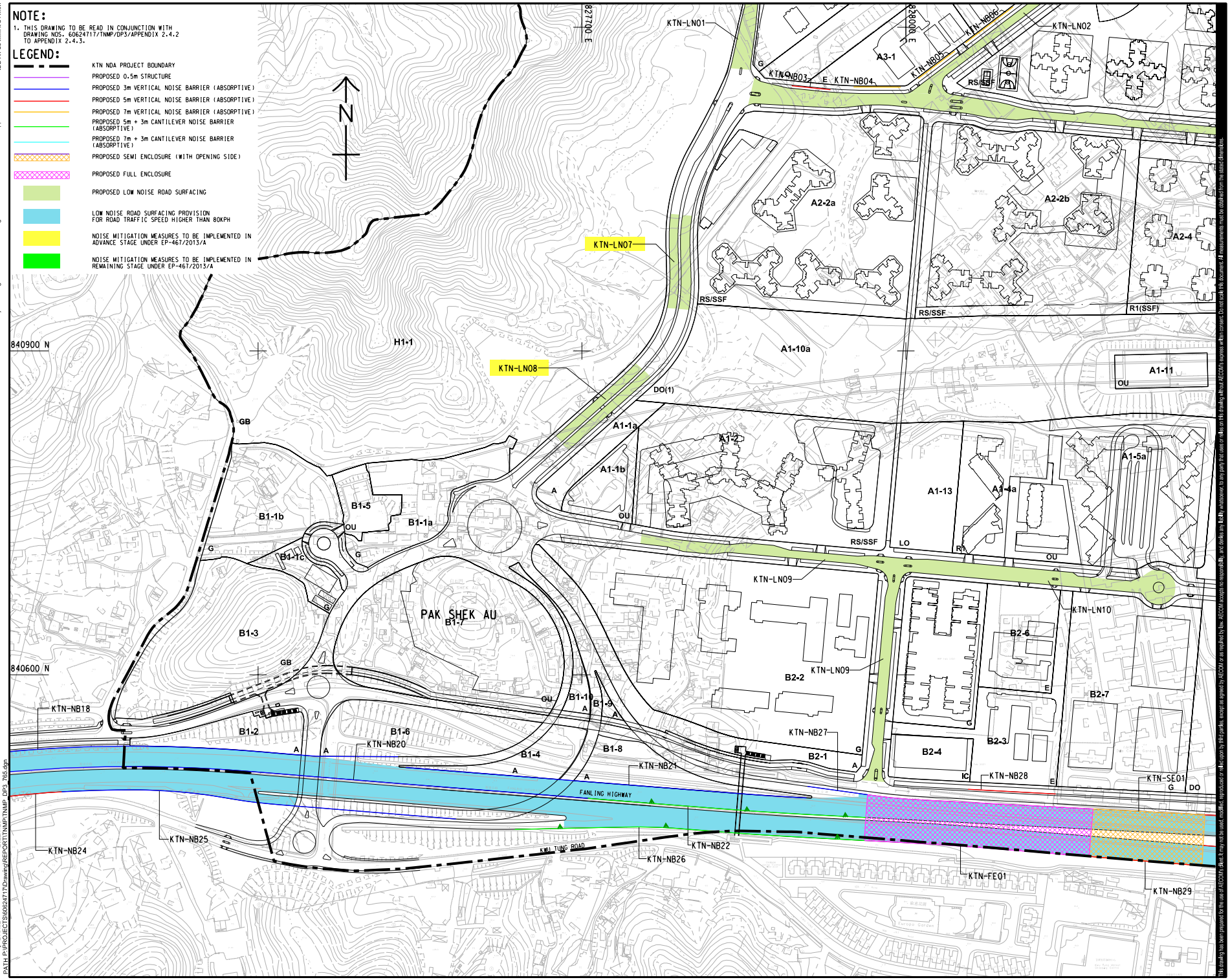

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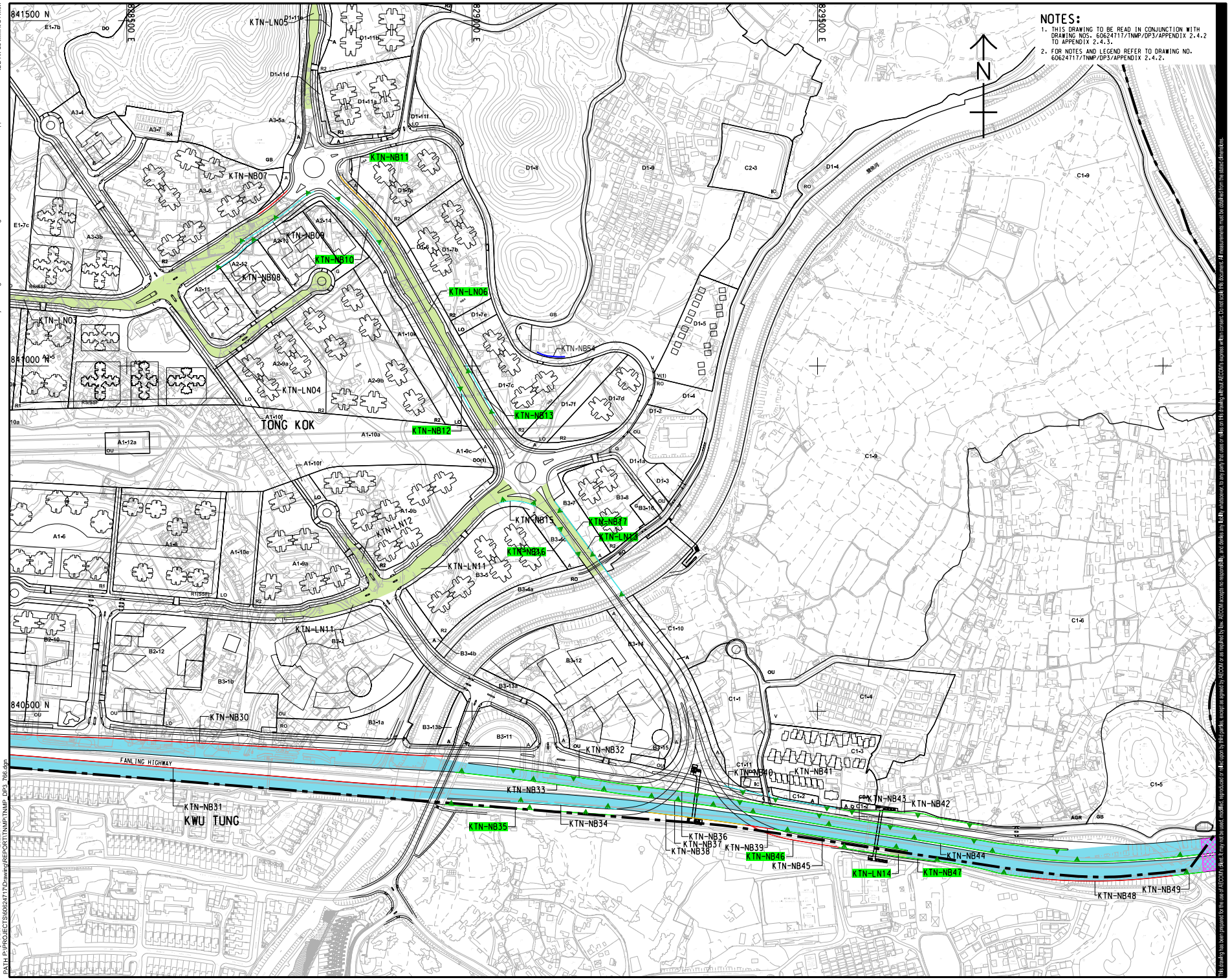

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SHEET 2 OF 2

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