

**Plan for Review of Use of
New Low Noise Road Surfacing Material(s)
for Tung Chung New Town Extension (West)
(EP No. EP-519/2016)**

July 2026

Environmental Permit No. EP- 519/2016

Tung Chung New Town Extension (West)

Environmental Team Leader Certification

Reference Document /Plan

Document to be Certified:	Plan for Review of Use of New Low Noise Road Surfacing Material(s)
Date of Document:	July 2026
Date received by ETL:	21 July 2026

Reference EP Condition

Environmental Permit Condition: 2.23

The Permit Holder shall, no later than three months before the commencement of construction of roadworks, submit a Plan with the following information for review of the use of new low noise road surfacing materials to Director for approval:

- (i) The environmental benefits, including but not limited to reduction of traffic noise impacts, of adopting the new low noise road surfacing material(s) as an alternative noise mitigation measure to the material(s) currently in use;
- (ii) The extent and locations of providing the new road surfacing material(s) for the roadworks covered by this Permit with justifications; and
- (iii) Reduction in traffic noise impacts at specific sensitive receivers and minimisation of the extent of noise barriers for the roadworks covered by this Permit as a resulting of applying the new road surfacing material(s).

ETL Certification

I hereby certify that the above reference document complies with the above referenced condition of EP-519/2016.



Daniel Sum
Environmental Team Leader

Date: 21 July 2026

Your Ref.

By Post

Our Ref. 198377-1229

Date 21 July 2026

South Development and Sustainable Lantau Office
Civil Engineering and Development Department
13/F, North Point Government Offices
333 Java Road, North Point
Hong Kong

For the attention of Mr. Ryan CHAK / Ms. Carol LAM

Dear Sir / Madam,

Agreement No. CE 59/2017 (EP)
Independent Environmental Checker for Tung Chung New Town Extension – Investigation Plan for Review of Use of New Low Noise Road Surfacing Material(s)

We refer to the Plan for Review of Use of New Low Noise Road Surfacing Material(s) for Tung Chung New Town Extension (West) (TCW) dated July 2026 and certified by the Environmental Team Leader of TCW on 21 July 2026. Please note we have no adverse comments on the captioned submission. The captioned submission is hereby verified in accordance with the requirement stipulated in Condition 2.23 of EP-519/2016.

Should you have any query, please feel free to contact the undersigned at 2608 7314 (chuawo@binnies.com) or our Edward Lau at 3894 9695 (lauky@binnies.com).

Yours faithfully,
for and on behalf of
BINNIES HONG KONG LIMITED



MANUEL CHUA
INDEPENDENT ENVIRONMENTAL CHECKER

cc: ET Leader / TCW – Mott (Attn: Mr. Daniel SUM) [by Email: daniel.sum@mottmac.com]
PM / TCW – Arup (Attn: Mr. Jackson WONG) [by Email: jackson.wong@tcw.c561011.hk]



Binnies Hong Kong Limited
43/F, AIA Kowloon Tower, 100 How Ming Street, Kwun Tong, Hong Kong
賓尼斯工程顧問有限公司
香港九龍觀塘巧明街 100 號友邦九龍大樓 43 樓



+852 2601 1000



+852 2601 3988



binnieshk@binnies.com



1. Project Description

The development of Tung Chung New Town Extension (TCNTE), comprising Tung Chung East (TCE) and Tung Chung West (TCW), is a mega-scale and complex project aiming to provide land to meet the future housing economic and social development needs of Hong Kong. Due to the fact that the proposed works are geographically separated, the implementation of mega-scale Project is divided into two packages, namely TCE and TCW respectively. In accordance with the tight delivery programme, the Project will be implemented in phases under separate contracts for the developments of TCE and TCW. This Plan only covers the details of the use of new low noise road surfacing material(s) for Tung Chung West (TCW). For the review in Tung Chung East (TCE) area, if applicable, it will be covered by separate submission(s).

2. Scope of Works for Tung Chung New Town Extension

The Tung Chung New Town Extension project (the Project) comprises the following elements:

- (i) reclamation of the seabed by a non-dredged method at TCE to form a total of about 130 hectares of land;
- (ii) construction of about 4.9 kilometers of seawalls, with an eco-shoreline, three drainage box culvert outfalls, three circulation drains and a seawater intake at TCE;
- (iii) provision of infrastructure for Tung Chung Area 58, including construction of a single two-lane road with a footpath and the associated utility works;
- (iv) site formation works at TCW;
- (v) construction of the River Park including a visitor centre at TCW;
- (vi) construction of proposed open space;
- (vii) construction of sustainable urban drainage systems at TCW;
- (viii) construction of roads, footpaths, cycle tracks and the associated junction / road improvement works;
- (ix) engineering infrastructure works covering drainage, sewerage, waterworks (including a fresh water service reservoir, a salt water service reservoir and a salt water pumping station), common utility tunnels and landscaping works; and
- (x) implementation of environmental mitigation measures and environmental monitoring and audit programme for the works.

3. Implementation Programme

The Contract No. NL/2020/05 – Tung Chung New Town Extension – Site Formation and Infrastructure Works at Ma Wan Chung (i.e. Contract 5) at TCW has been awarded in May 2021 and is scheduled for completion in 2027. The main contractor for Contract No. NL/2020/05 is Build King – Richwell Civil Joint Venture (BKRCJV).

The Contract No. NL/2020/06 – Tung Chung New Town Extension – Site Formation and Infrastructure Works at Tung Chung Valley, Phase 1 (i.e. Contract 6) at TCW has been awarded in May 2021 and is scheduled for completion in 2027. The main contractor for Contract No. NL/2020/06 is China Railway Group Limited (CREC).

The Contract No. NL/2023/10 – Tung Chung New Town Extension – Infrastructure Works at Tung Chung Valley, Yu Tung Road and Ma Wan Cheung (i.e. Contract 10) at TCW has been awarded in October 2025 and is scheduled for completion in 2029. The main contractor for Contract No. NL/2023/10 is CREC Joint Venture (CRECJV).

The Contract No. NL/2023/11 – Tung Chung New Town Extension – Infrastructure Works at Tung Chung Valley, Phase 2 (i.e. Contract 11) at TCW has been awarded in March 2026 and is scheduled for completion in 2030. The main contractor for Contract No. NL/2023/11 is CCC-CCECC-CR11G Joint Venture (3CJV).

The Entrustment Agreement No. ENT/TUE/001 – Construction of Infrastructure Works in the Tung Chung New Town Extension Area (i.e. Entrusted Works) has been awarded in June 2025 and is scheduled for completion in 2028. The main contractor for Entrusted Works is Bouygues Dragages (1201) Joint Venture (BDJV).

4. Submission under EP

In view that only Contract 6 has construction of roadworks with the application of low noise road surfacing materials in TCW, this submission is prepared based on the latest information of Contract 6 according to the relevant requirements contained in the EM&A Manual, EIA Report and EP. Please find the enclosed Plan for Review of Use of New Low Noise Road Surfacing Material(s) below for TCW.



Civil Engineering and Development Department
The Government of the Hong Kong Special Administrative Region

PLAN FOR REVIEW OF USE OF NEW LOW NOISE ROAD SURFACING MATERIAL(S)

O	29/6/26		
Rev	Date	Prepared By Simon Mak Environmental Officer	Approved By Jeffrey Woo Project Manager

PLAN FOR REVIEW OF USE OF NEW LOW NOISE ROAD SURFACING MATERIAL(S) REV. 0

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Approved EIA (Extracted from the EIA Report (AEIAR-
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Figure 2 of Environment Permit No.: EP-519/2016

PLAN FOR REVIEW OF USE OF NEW LOW NOISE ROAD SURFACING MATERIAL(S) REV. 0

1 INTRODUCTION

The Plan is prepared by China Railway Engineering Group Limited (known as CREC) in accordance with the Condition 2.23 of the Environmental Permit No. EP-519/2016 dated 09/08/2016.

This Plan only covers the details of the use of new low noise road surfacing material(s) (LNRS materials) for Tung Chung West (TCW). For the review in Tung Chung East (TCE) area, if applicable, it will be covered by separate submission(s).

This submission has been updated to reflect the update of LNRS extent of HMSMA6, a new generation of LNRS material promulgated in the latest Guidance Notes on Low Noise Road Surfacing on Local Roads (RD/GN/011E, April 2025). HMSMA6, developed as an enhancement of PMSMA6 (Agreement No. Hy(S)Q/024/2016) with highly modified bitumen, has been confirmed through site trials on 18 local road sections since November 2023 and laboratory tests with The Hong Kong Polytechnic University to provide superior performance, particularly in durability.

1.1 PROJECT BACKGROUND

1.1.1 An Environmental Impact Assessment (EIA) for Tung Chung New Town Extension (TCNTE) was prepared during the P&E (Planning and Engineering) Study and submitted under the Environmental Impact Assessment Ordinance (EIAO) in December 2015, and was subsequently approved in April 2016 (AEIAR-196/2016). An Environmental Permit (EP) was also issued by Director of Environmental Protection (DEP) in August 2016 (EP-519/2016). Civil Engineering and Development Department (CEDD) has then appointed Arup to undertake the Tung Chung New Town Extension (West) – Design and Construction under the Agreement No. CE 70/2015 (CE) (hereafter named as the Project).

1.1.2 According to the approved EIA Report (AEIAR-196/2016) (Section 4.5.4), the mitigation measures for road traffic noise for Tung Chung West (TCW) is given in Appendix A. Those mitigation measures include the following.

- Some residential buildings at Area 60 with façade with no openable window;
- Some residential buildings at Area 60 with architectural fins of about 1.5m long;
- Residential building at Area 42 with façade with no openable window;
- Low Noise Road Surfacing (LNRS) materials along Chung Mun Road of approx. 210m long, Road L29 (i.e. Road L24 as stated in the EIA Report) of approx. 160m long and Road L30 of approx. 160m long;
- 4m high school boundary wall of approx. 50m long for the school at Mun Tung Estate; and
- 5m high vertical barrier of approx. 120m long with 3m cantilevered arm at 45° at the junction between Chung Mun Road and Road L29.

PLAN FOR REVIEW OF USE OF NEW LOW NOISE ROAD SURFACING MATERIAL(S) REV. O

The finalised mitigation measures at the noise sensitive receivers shall be subject to further review by relevant authorities and future developers under prevailing planning mechanism.

1.1.3 The approved EIA Report had recommended road traffic noise mitigation measures along Chung Mun Road, Road L29 and Road L30. During the detailed design of the Project, a review on the traffic noise mitigation measures recommended in the approved EIA Report has been conducted. After the discussion on the LNRS materials maintenance arrangement during the road traffic noise assessment and meetings among CEDD, EPD, HyD & Planning Department (PlanD) on 25 March 2020, a conclusion was made that full extent of LNRS materials along Chung Mun Road (Please refer to Figure 1.1). A separate noise assessment conducted with the exclusion of 30m LNRS materials at the run-in/out to Area 42 at Road L30 and the same extent of LNRS materials along Chung Mun Road and Road L29 stated in the approved EIA demonstrated that road traffic noise levels at noise sensitive receivers would comply with relevant noise criteria. As the run in/out to Area 42 at Road L30 does not fall within the "not suitable" category of Table 2 of the HyD Guidance Notes on Low Noise Road Surfacing on Local Roads ((RD/GN/011E, April 2025), it was discussed and agreed with HyD in February 2026 that full application of LNRS materials can be adopted for the run in/out to Area 42 at Road L30.

1.1.4 According to the approved EIA Report, Chung Mun Road as a district distributor road is a designated project under Item A.1 of Schedule 2 (Part I) under the EIAO. According to the EP's condition 2.33, the road traffic noise mitigation measures on Chung Mun Road are given in Figure 2 of that EP as given in **Appendix B**.

1.1.5 It should be noted that the approved EIA Report had recommended road traffic noise mitigation measures along Road L29 and Road L30 as well. However, since Road L29 and Road L30 are not district distributors and hence they are not DP, the mitigation measures for Road L29 and Road L30 are not included in the EP. Nevertheless, those mitigation measures would still need to be implemented.

1.2 ENHANCEMENT OF DEVELOPMENT INTENSITY OF PUBLIC HOUSING SITES

1.2.1 An increase of the Gross Floor Area (GFA), flat number and population of public housing sites (Areas 23, 42 & 46) was proposed by Housing Department (HD) according to the requirements on the Legislative Council Brief "Enhancement of the Development Intensity of Public Housing Sites". According to the planning parameter provided in July 2019, the total population for TCW housing sites (Areas 23, 42 & 46) of Scenario 2 (B2) and Scenario 3 (L) are 27,828 and 31,454 respectively.

1.2.2 Following the Executive Council's approval, the Government would enhance the development intensity of public housing sites such that their maximum domestic plot ratio will be allowed to increase beyond the current 20% cap by up to 10% points (i.e. maximum 30% in total) where their technical feasibility permits and with the approval of the Town Planning Board as appropriate.

**PLAN FOR REVIEW OF USE OF NEW LOW NOISE ROAD SURFACING
MATERIAL(S) REV. O**

- 1.2.3** In accordance with the prevailing policy on enhancing the development intensity of public housing sites, CEDD has explored the feasibility to suitably increase the development intensity of the TCNTE to meet the increasing pressure to address the public housing shortage. Having considered the existing development characters and intensities in TCNTE, a scenario to increase the development intensity of public housing sites is proposed (“Scenario 2 (B2)”), in which the development intensity of public housing sites (Areas 23, 42 & 46) is to be increased based on full utilisation of site area, the permitted plot ratio (P/R), site area, domestic and non-domestic GFA permitted on the approved OZP, reduced average flat size, population-per-flat, flat number, population proposed by Housing Department (HD).
- 1.2.4** Subject to the technical feasibility of development parameters under “Scenario 2 (B2)”, further increase in domestic plot ratio for public housing development in Areas 23, 42 & 46, GFA, flat number and population of public housing sites proposed by HD in accordance with the 2018 ExCo Policy on "Enhancement of the Development Intensity of Public Housing Sites", i.e. the maximum domestic PR of the public housing sites will be allowed to increase beyond the current 20% cap by up to 10% points (maximum 30% in total or percentage allowed to increase), might be explored. This further increase in domestic PR is defined as “Scenario 3 (L)”.
- 1.2.5** Arup conducted additional services in 2019 to investigate the feasibility to enhance the development intensity of public housing sites in TCW.

The feasibility study adopted a scenario to increase the development intensity (i.e. maximum domestic plot ratio 30% in total or percentage allowed to increase) for public housing sites in Area 23, 42 and 46.

For the road traffic noise impact assessment under this scenario, the recommended additional mitigation measure included the installation of acoustic windows for public housing sites and the implementation of EIA revised mitigation measures, i.e. installation of 210m LNRS at Chung Mun Road, 160m at Road L29 and 130m at Road L30, omission of 30m LNRS at Road L30. The proposed extent of LNRS in Contract No. NL/2020/06 is fully compliant with the at-source mitigation measures recommended in the road traffic noise impact assessment in the feasibility study, and the implementation of acoustic windows for public housing sites will be carried out by the Housing Department.

As the run in/out to Area 42 at Road L30 does not fall within the "not suitable" category of Table 2 of the HyD Guidance Notes on Low Noise Road Surfacing on Local Roads ((RD/GN/011E, April 2025), it was discussed and agreed with HyD in February 2026 that full application of LNRS materials can be adopted for the run in/out to Area 42 at Road L30, i.e. installation of 210m LNRS at Chung Mun Road, 160m at Road L29 and 163m at Road L30.

**PLAN FOR REVIEW OF USE OF NEW LOW NOISE ROAD SURFACING
MATERIAL(S) REV. 0****1.3 PURPOSE OF THIS PLAN**

1.3.1 The purpose of this Plan is to review the use of new low noise road surfacing material(s) as a noise mitigation measure in TCW in accordance with Condition 2.23 of the Environmental Permit No. EP-519/2016 taking into consideration of the development in the area as mentioned in the EIA Report.

1.3.2 According to Condition 2.23 of EP, this Plan should include at least the following information:

- the environmental benefits, including but not limited to reduction of traffic noise impacts, of adopting the new low noise road surfacing material(s) as an alternative noise mitigation measure to the material(s) currently in use;
- the extent and locations of providing the new road surfacing material(s) for the roadworks covered by this Permit with justifications; and
- reduction in traffic noise impacts at specific sensitive receivers and minimization of the extent of noise barriers for the roadworks covered by this Permit as a resulting of applying the new road surfacing material(s).

**PLAN FOR REVIEW OF USE OF NEW LOW NOISE ROAD SURFACING
MATERIAL(S) REV. 0****2 APPLICATION OF NEW LNRS MATERIALS****2.1 GENERAL**

- 2.1.1** According to the “Interim Report on the Use of 6mm Nominal Maximum Aggregate Size Polymer Modified Stone Mastic Asphalt (PMSMA6) on Local Roads in Hong Kong” issued by Highways Department (HyD) in June 2021, both overseas and local experiences revealed that Polymer Modified Friction Course (PMFC), attributed to its porous nature, is susceptible to wear and tear making it not sufficiently durable as LNRS materials for many situations to sustain the local road conditions. Therefore, PMFC is not taken as a structural layer and its application on local roads will require laying on top of wearing course (“WC”) instead of base course (“BC”).
- 2.1.2** The latest Guidance Notes on Low Noise Road Surfacing on Local Roads (RD/GN/011E, April 2025) issued by the Highways Department supersede the previous version RD/GN/011D. In this updated guidance, the binder of the polymer modified stone mastic asphalt with 6mm nominal maximum aggregate size (PMSMA6) has been upgraded with highly modified bitumen. With this enhancement, the highly modified stone mastic asphalt with 6mm nominal maximum aggregate size (HMSMA6) is designated as the new generation of Low Noise Road Surfacing (LNRS) material for local roads in Hong Kong.
- 2.1.3** A new generation of LNRS material, namely the Highly Modified Stone Mastic Asphalt with 6mm nominal maximum aggregate size (HMSMA6), has been promulgated in the latest Guidance Notes on Low Noise Road Surfacing on Local Roads (RD/GN/011E, April 2025). HMSMA6 is an enhancement of the previously tested PMSMA6 (Agreement No. Hy(S)Q/024/2016), in which the binder has been upgraded to highly modified bitumen. Site trials on 18 local road sections commencing in November 2023, together with laboratory tests conducted in collaboration with The Hong Kong Polytechnic University, confirmed that HMSMA6 provides superior overall performance compared with PMSMA6, particularly in terms of durability.

2.2 OUTCOMES

- 2.2.1** The environmental benefits, including but not limited to reduction of traffic noise impacts, of adopting the new low noise road surfacing material(s) as an alternative noise mitigation measure to the material(s) currently in use:

For environmental benefits, HMSMA6 is a thin, non-porous bituminous surfacing (typically about 30mm thick) made of relatively fine and gap-graded aggregates. Its optimized surface texture can reduce road-type noise. The site trial results revealed that HMSMA6 achieves an average noise reduction of approximately 2.5 dB(A), and its noise reduction ability would only be materially reduced when substantial surface defects such as raveling or potholes develop. HMSMA6 is also more durable than PMSMA6.

**PLAN FOR REVIEW OF USE OF NEW LOW NOISE ROAD SURFACING
MATERIAL(S) REV. 0****2.2.2** The extent and locations of providing the new road surfacing material(s) for the roadworks covered by this Permit with justifications:

It is recommended the use of the HMSMA6 as LNRS materials for this project. According to the approved EIA Report (Section 4.5.4) (relevant figures extracted in Appendix A) and Environmental Permit (EP) (EP No. EP-519/2016) (Figure 2) (extracted in Appendix B) for TCNTE and the agreement in the inter-departmental meeting as stated in Section 1.1.3 the extent and locations of LNRS materials for the roadworks are shown in **Figure 1.1**, which are confirmed by CEDD. The adoption of LNRS materials are approx. 210m long along Chung Mun Road, approx. 160m long along Road L29 and approx. 163m long along Road L30. The proposed extent of LNRS is fully compliant with the at-source mitigation measures recommended in the road traffic noise impact assessment in the feasibility study as mentioned in Section 1.2.5.

2.2.3 Reduction in traffic noise impacts at specific sensitive receivers and minimization of the extent of noise barriers for the roadworks covered by this Permit as a resulting of applying the new road surfacing material(s):

There is no minimization of the extent of the noise barriers (refer to NB1 as shown in Appendix B) for the roadworks as resulting of applying the new road surfacing materials.

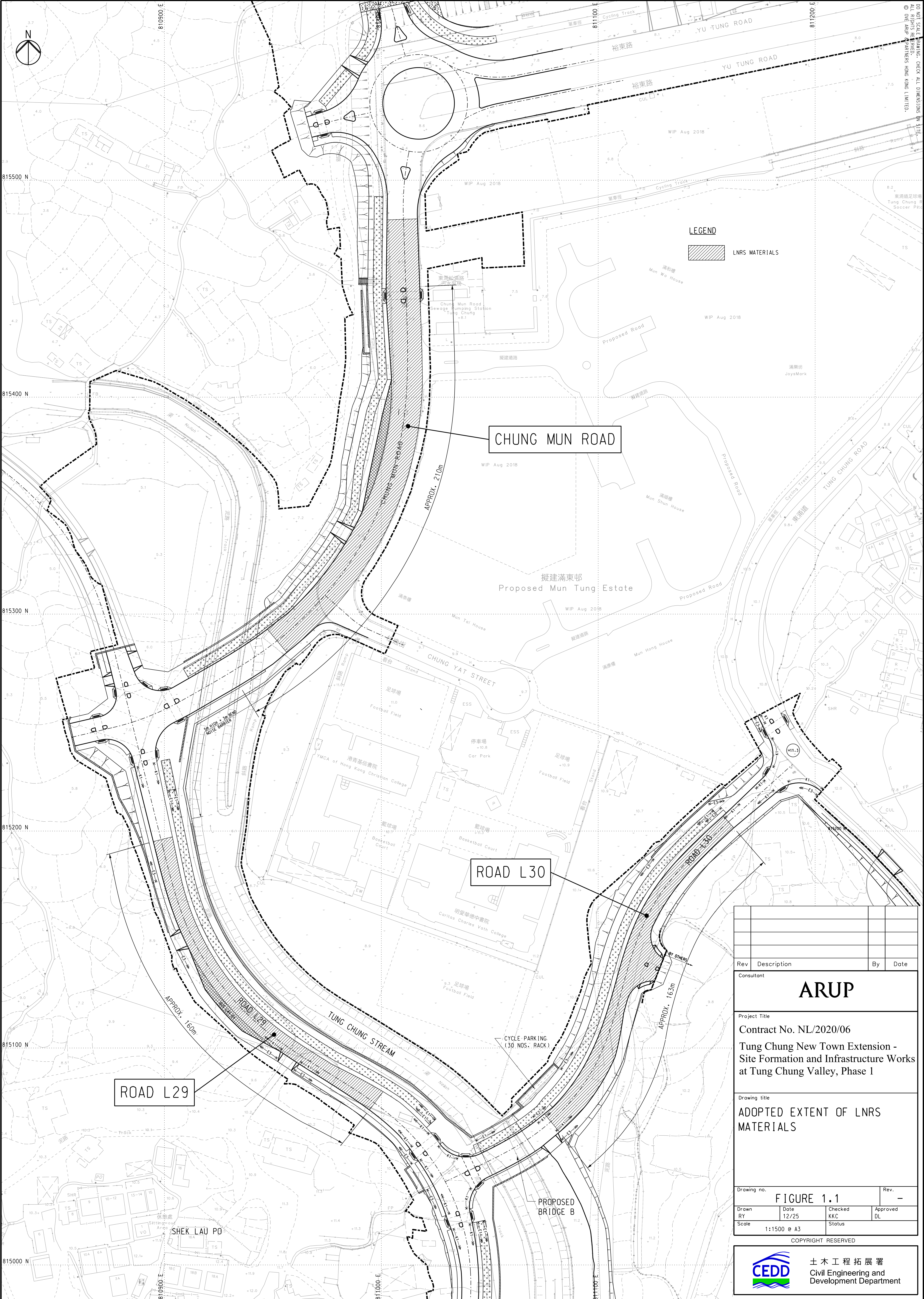
2.2.4 The lengths of road sections with Low Noise Road Surfacing (LNRS) materials along Chung Mun Road is approx. 210m long; Road L29 is approx. 160m long and Road L30 is approx. 163m long. The specific sensitive receivers where the traffic noise impacts will be reduced due to the provision of LNRS materials includes:

- Mun Tung Estate
- Hong Chi Shiu Pong Morninghope School
- YMCA of Hong Kong Christian College
- Caritas Wu Cheng-Chung College
- Public Housing Development in Area 42

(END)

**PLAN FOR REVIEW OF USE OF NEW LOW NOISE ROAD SURFACING
MATERIAL(S) REV. 0**

Figure 1.1 – Adopted Extent of LNRS Materials



Rev	Description	By	Date
Consultant			
ARUP			
Project Title			
Contract No. NL/2020/06			
Tung Chung New Town Extension - Site Formation and Infrastructure Works at Tung Chung Valley, Phase 1			
Drawing title			
ADOPTED EXTENT OF LNRS MATERIALS			
Drawing no.		Rev.	
FIGURE 1.1		-	
Drawn	Date	Checked	Approved
RY	12/25	KKC	DL
Scale		Status	
1:1500 @ A3			

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Civil Engineering and
Development Department

**PLAN FOR REVIEW OF USE OF NEW LOW NOISE ROAD SURFACING
MATERIAL(S) REV. 0**

**Appendix A – Figures on Mitigation Measures for Road Traffic Noise in
Approved EIA
(Extracted from the EIA Report (AEIAR-196/2016) – Figure 4.14d and 4.14d-3)**

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LEGEND

- POSSIBLE DEVELOPMENT AREA
- WORKS AREA FOR ROAD P1
(TUNG CHUNG - TAI HO SECTION)
- WORKS AREA FOR SERVICE
RESERVOIR

PROPOSED EXPANSION OF
HONG KONG INTERNATIONAL AIRPORT
(BY OTHERS)

HK BOUNDARY CROSSING
FACILITIES OF HZMB
(BY OTHERS)

TMCLK LINK
(BY OTHERS)

HONG KONG
INTERNATIONAL AIRPORT

HK LINK ROAD OF HZMB
(BY OTHERS)

Figure 4.14d-2

Figure 4.14d-1

PROPOSED LANTAU LOGISTICS PARK
(BY OTHERS)
(REF. REVISED CONCEPT PLAN
FOR LANTAU)

TUNG CHUNG
EAST STATION
(BY OTHERS)

TUNG CHUNG
WEST STATION
(BY OTHERS)

Figure 4.14d-3

D	FOURTH ISSUE	GL	09/15
C	THIRD ISSUE	GL	08/15
B	SECOND ISSUE	GL	07/15
A	FIRST ISSUE	GL	04/15
Rev	Description	By	Date

Consultant

ARUP

Project title

Tung Chung
New Town Extension

Drawing title

Mitigation Measures for
Road Traffic Noise at 2045
(Sheet 1 of 4)

Drawing no. Figure 4.14d Rev. D

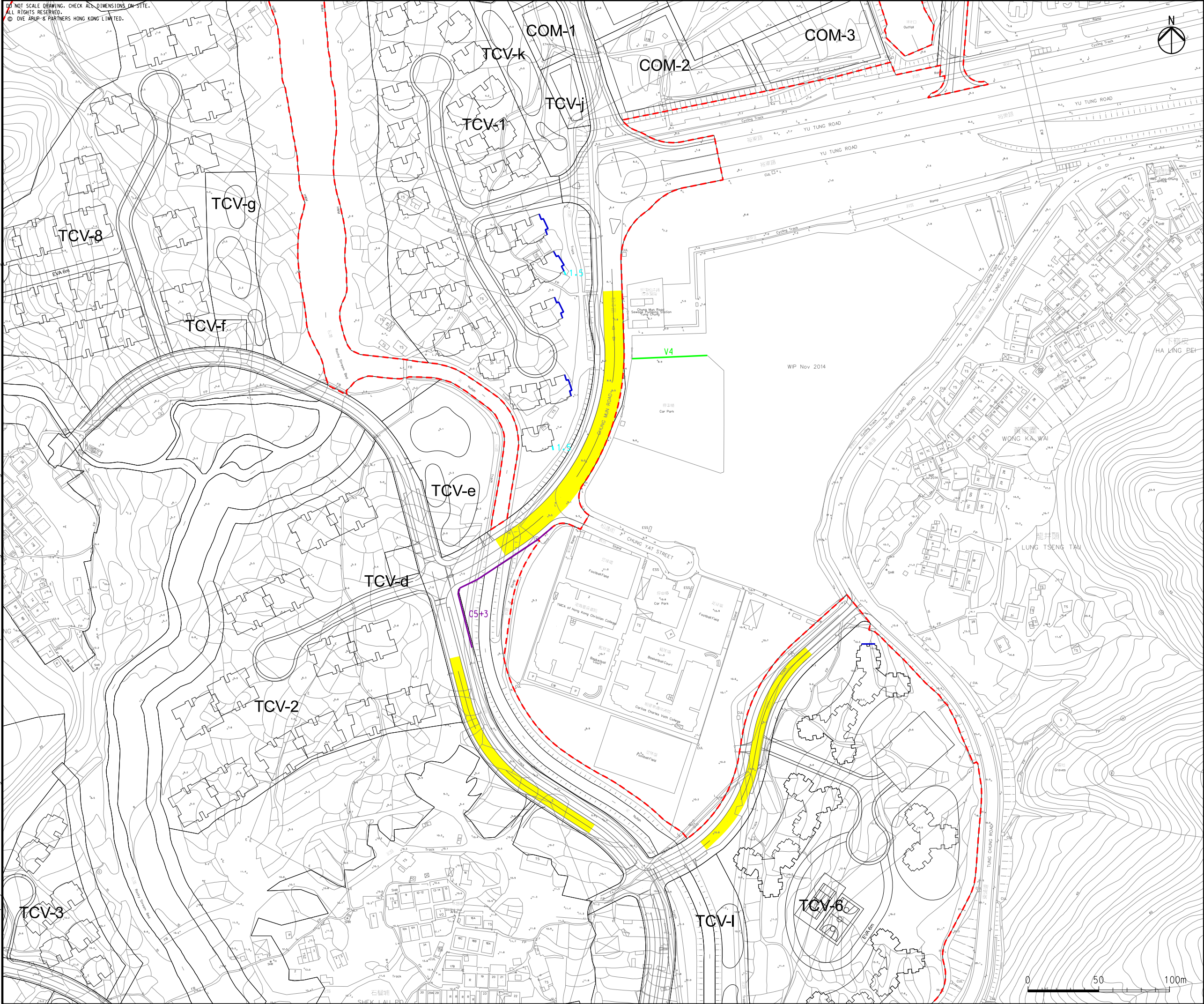
Drawn GL	Date 09/15	Checked LK	Approved FC
Scale 1:30000 @A3	Status PRELIMINARY		

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Civil Engineering and
Development Department

Printed by : 11/8/2015
Filename : G:\env\project\219844-70\13 Drawing Deliverables\24 EnvironmentalImpact Assessment\Figure 4.14d-3 - Mitigation Measures for Road Traffic Noise at 2045.dgn



- LEGEND
- POSSIBLE DEVELOPMENT AREA
 - FACADE WITH NO OPENABLE WINDOWS
 - SCHOOL BOUNDARY WALL (dM HIGH)
 - CANTILEVER NOISE BARRIER (gM HIGH + hM CANTILEVER)
 - ARCHITECTURAL FIN (1.5M LONG)
 - LOW NOISE SURFACING

D	FOURTH ISSUE	GL	09/15
C	THIRD ISSUE	GL	08/15
B	SECOND ISSUE	GL	07/15
A	FIRST ISSUE	GL	04/15
Rev	Description	By	Date

Consultant

ARUP

Project title

**Tung Chung
New Town Extension**

Drawing title

**Mitigation Measures for
Road Traffic Noise at 2045
(Sheet 4 of 4)**

Drawing no. **Figure 4.14d-3** Rev. **D**

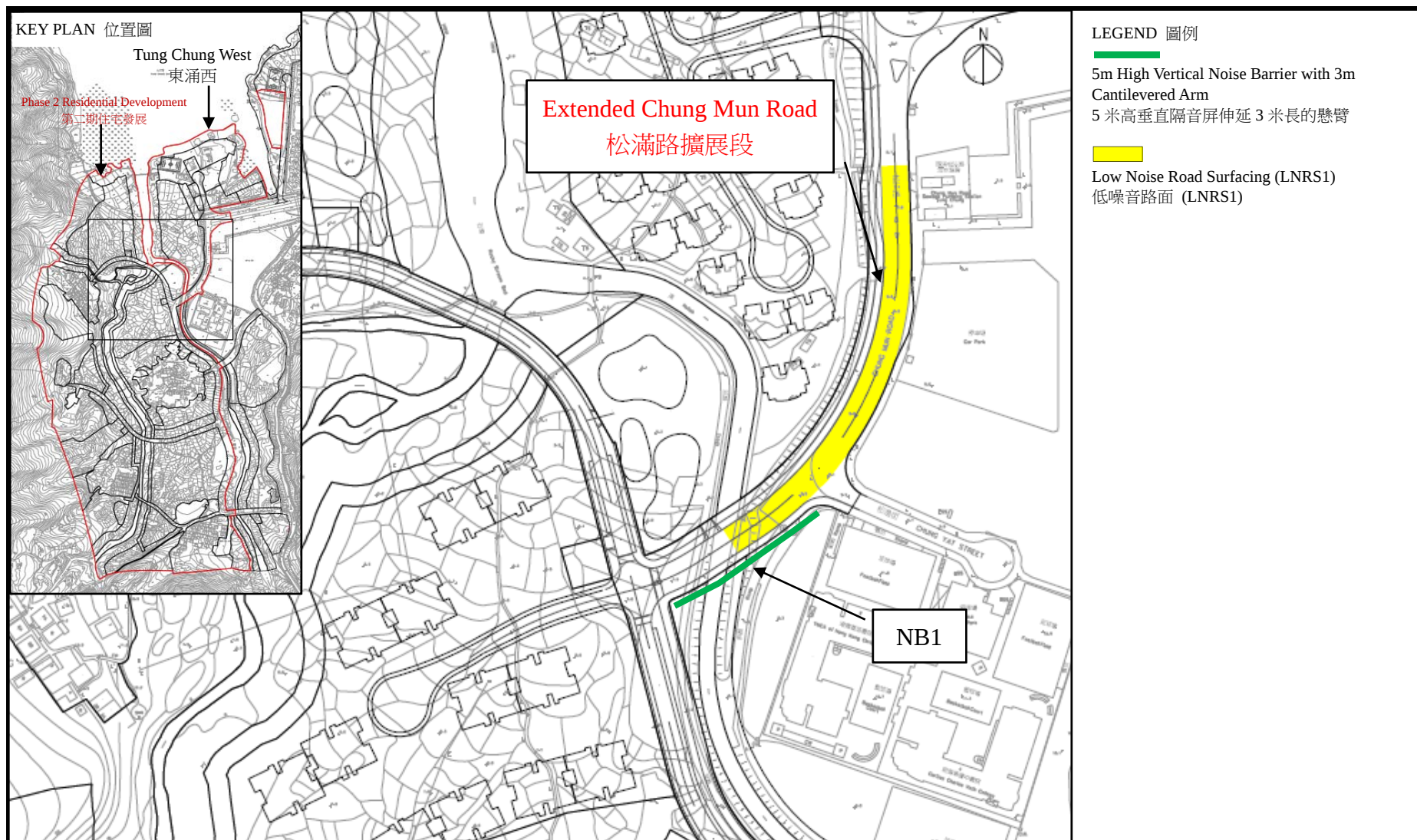
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MATERIAL(S) REV. 0**

Appendix B – Figure 2 of Environment Permit No.: EP-519/2016



Project Title:
工程項目名稱：

Tung Chung New Town Extension
東涌新市鎮擴展

Figure 2:
圖 2：

Locations of Noise Barrier and Low Noise Surfacing for Extended Chung Mun Road
松滿路擴展段隔音屏及低噪音路面位置

[This figure was prepared based on Figure 4.14a-2 of the approved EIA Report No. AEIAR-196/2016]
[本圖是根據環境影響評估報告編號 AEIAR-196/2016，圖 4.14a-2 編制]

Environmental Permit No.: EP-519/2016
環境許可證編號：EP-519/2016

