Appendix D

**Environmental Assessment** 

Prepared for

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Prepared by Ramboll Hong Kong Limited

SECTION 16 PLANNING APPLICATION FOR SUBMISSION OF LAYOUT PLAN FOR PERMITTED 'FLAT' AND 'SOCIAL WELFARE FACILITY' USES AT TSUEN WAN INLAND LOT 5 AND LOT NO. 429 IN D.D. 399, TING KAU, TSUEN WAN

ENVIRONMENTAL ASSESSMENT



Section 16 Planning Application for Submission of Layout Plan for Permitted 'Flat' and 'Social Welfare Facility' Uses at Tsuen Wan Inland Lot 5 and Lot No. 429 in D.D. 399, Ting Kau, Tsuen Wan

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### 1. INTRODUCTION

#### 1.1 Background and Objectives

- 1.1.1 The Subject Site falls in "Residential (Group B) 2" ("R(B)2") Zone at TWIL 5 and Lot No. 429 in D.D. 399, Ting Kau, Tsuen Wan according to the approved Tsuen Wan West Outline Zoning Plan ("OZP") No. S/TWW/21 gazetted under section 9(1)(a) of Town Planning Ordinance.
- 1.1.2 Ramboll Hong Kong Limited is commissioned by the Project Proponent to conduct the Environmental Assessment ("EA") to support the planning application. This EA report is prepared based upon the proposed master layout plan. Corresponding noise mitigation measures will be proposed, if it is required. The potential air quality impact assessment will be addressed by a separate assessment report.
- 1.2 Subject Site and its Environs
- 1.2.1 The Subject Site is located to the east of Tsing Long Highway (Toll Road) and south of Castle Peak Road (Ting Kau) as well as between Lido Beach and Ting Kau Beach. Figure 1.1 shows the location of the Subject Site and its environs.
- 1.3 Proposed Redevelopment
- 1.3.1 The development site area of Proposed Redevelopment is approximately 6,066 m<sup>2</sup> and consists of two residential blocks (Tower 1 and 2), a social welfare facility underneath Tower 1 and a car park at the basement. The Proposed Redevelopment will provide not more than 674 residential units. Appendix 1.1 shows the MLP of the Proposed Redevelopment.
- 1.4 Appraisal on Environmental Impact

#### Noise Impact

1.4.1 The major noise sources in the study area are from road traffic, such as Tsing Long Highway and Castle Peak Road. The predicted noise levels at NSRs facing the roads exceed the noise standard. Mitigation measures including acoustic window and acoustic balcony are proposed in order to reduce the road traffic noise impact and achieve a 100% compliance rate.

#### Air Quality

1.4.2 The quantitative air quality impacts are addressed in a separate assessment report.

#### Waste Management

1.4.3 The potential waste management issues in connection with the construction of the Proposed Redevelopment Site will be discussed in Section 3. Waste management Practices and mitigation measures will be recommended in order to alleviate the impacts, where necessary.

### 2. ROAD TRAFFIC NOISE IMPACT ASSESSMENT

#### 2.1 Introduction

2.1.1 This road traffic noise impact assessment is prepared to address road traffic noise impact on the noise sensitive uses of the Proposed Redevelopment and to recommend mitigation measures where practicable to attenuate the impact.

#### 2.2 Assessment Criteria

- 2.2.1 Noise standards are recommended in Chapter 9 "Environment" of the HKPSG for planning against possible noise impact from road traffic, railway and aircrafts. According to the standards and guidelines, the maximum allowed road traffic noise level, measured in terms of  $L_{10(1-hr.)}$ , at typical facades of the Proposed Conversion with residential use is 70 dB(A) in terms of  $L_{10(1-hr.)}$ .
- 2.2.2 For the Proposed Redevelopment, only dwellings will rely on openable window for ventilation purpose (i.e., residential units). For the Day Care Centre for the Elderly and clubhouse will be provided with air-conditioning system and will not be provided with any openable windows / openings for ventilation.
- 2.2.3 According to the guidelines, the criterion for road traffic noise impact on domestic premises (habitable rooms) is L10(1-hour) 70dB(A). This criterion applies to uses which rely on openable windows for ventilation.

#### 2.3 Assessment Methodology

- 2.3.1 The assessment concerns the prediction of the maximum  $L_{10(1-hr.)}$  traffic noise level at noise sensitive receivers ("NSRs") of the Proposed Conversion due to the projected traffic flow on the adjacent major road networks for Year 2043, which is considered as the worst-case scenario within 15 years after the completion of the Proposed Conversion in Year 2028. The traffic flow was predicted by the traffic consultant, AECOM. The traffic forecast for Year 2043 includes information of the traffic volume and percentage of heavy vehicle of the adjacent major roads. The traffic forecast and Transport Department's no objection in principle is shown in Appendix 2.1.
- 2.3.2 The U.K. Department of Transport's procedure "Calculation of Road Traffic Noise" was applied to predict the  $L_{10(1-hr.)}$  noise level generated from road traffic at selected representative facades (NSRs) of the Proposed Conversion. It is checked that the a.m. peak traffic flow is higher than the p.m. one. Therefore, the a.m. peak traffic data is adopted in this assessment. The predicted noise levels were then compared with the recommended noise standards in HKPSG for assessing the impact.
- 2.4 Road Characteristic
- 2.4.1 The adjacent roads of the Subject Site, namely Tsing Long Highway (Toll Road), Castle Peak Road (Ting Kau and New Ting Kau) and Slip Road connecting Ting Kau Bridge and Tuen Mun Road (West) are considered as the dominant sources of road traffic noise to the NSRs. Other local roads in the study area, like access road to the Subject Site and Ting Yat Road, are also considered as sources of road traffic noise (refer to Appendix 2.1).
- 2.5 Noise Sensitive Receivers
- 2.5.1 The representative facades with openable windows were identified as NSRs in the assessment. Locations of NSRs are shown in Figure 2.1. The assessment points are taken at 1.2 m above the floors of the selected storey and 1m away from the facades of openable windows.

#### 2.6 Road Traffic Impact Assessment Result (Base Case)

2.6.1 The assessment result for dwelling under base case scenario is presented in Appendix 2.2 and summarised below.

Scenario	Max Predicted Noise Level	Total Number of Exceedances	Compliance Rate
AM	76	199	70%

Table 2.1Assessment Result under Base Case Scenario

- 2.6.2 Based on the Traffic forecast data, the traffic peak flow at AM is larger than that PM. Hence, the AM traffic peak flow is considered to be the worst-case scenario. Noise mitigation measures are recommended for the Proposed Redevelopment based on the AM scenario to attenuate the road traffic noise impact.
- 2.7 Proposed Noise Mitigation Measures
- 2.7.1 Noise mitigation measures have been duly studied and applied where practicable.
  - a. Fixed Glazing with/without Maintenance Window
- 2.7.2 For those window façades that are not necessary for ventilation purpose yet exposed to road traffic noise, Fixed Glazing with/without Maintenance Window is proposed. The fixed glazing of not less than 8mm will be equipped with well gasketed maintenance window with a removable handle or key lock system to ensure the maintenance window remains locked except for cleaning and maintenance purpose.
  - b. <u>Acoustic Window (Baffle Type) (AW(BT))-(NPE)</u>
- 2.7.3 Innovative noise mitigation measures are being explored in recent years. Baffle type acoustic windows and acoustic doors have been adopted for numerous residential developments for attenuating road traffic noise. It is understood that Environmental Protection Department (EPD) has issued the Practice Note on Application of Innovative Noise Mitigation Designs in Planning Private Residential Developments against Road Traffic Noise Impact (hereafter referred as "EPD-PN") for mitigating road traffic noise impact.
- 2.7.4 The reference cases in EPD-PN have been made to adopt in first place for the Proposed Redevelopment. However, there are some major parameters cannot be followed (i.e. outer/inner opening is much larger than the EPD-PN, different number of outer openings, full height side wall near the outer opening cannot be provided at the window etc.), reference cases from other developments are therefore adopted.
- 2.7.5 Baffle type acoustic windows are proposed and the noise attenuation performance for AW(BT) –NPE is referenced to the redevelopment project of ex-North Point Estate (hereafter referred as "NPE"), which was previously proposed in the Approved EA report.
- 2.7.6 The AW(BT)) in NPE refers to the type of window that has an inner sliding panel behind the outer opening, both readily openable, for creating an air gap for the supply of fresh air with noise mitigation effect. It comprises two glazing:
  - i. The outer window system with side hung openable window and
  - ii. The inner sliding panel.
- 2.7.7 The "designed setting" to reduce noise entering indoor area is achieved by placing the inner sliding panel behind the openable window, so that noise from outside cannot pass through the opening window and enter indoor area directly. As there is no gap at top and bottom of the sliding panel, direct transmission of sound energy into the habitable room is avoided. Instead, outdoor noise has to pass through the gap between the inner sliding panel and outer façade aside the opening window/door in order to enter indoor

area. The design allows natural ventilation through the aforementioned gap (although extent of natural ventilation may be inferior to the case without the inner sliding panel behind) and prevent most noise from entering indoor environment. According to the latest PNAP APP-130: "Lighting and Ventilation Requirements – Performance-based Approach", the proposed AW(BT) are considered complying with prescribed ventilation requirement if the net opening when the inner sliding panel is moved to another side with least obstruction to the openable window/door at the outer façade.

- 2.7.8 The sound reduction of acoustic window with MPA applied in bedroom of NPE reaches 6.8dB(A) (for bedroom of 6.8m<sup>2</sup>, air gap of 100mm and overlapping length of 275mm). Since the area of the residential units proposed with AW(BT)-NPE ranges from around 4.1m<sup>2</sup> to 8.9m<sup>2</sup>, room size correction would be applied if the dormitory size is smaller than reference case. The AW(BT) for dormitories would be optimized at later detailed design stage.
- The outer opening size & room size also play a significant role in affecting the sound 2.7.9 attenuation performance. The sound attenuation performance provided by AW(BT) increases with room size because of the longer reverberation time and lower reverberation effect in larger room. Due to the room size difference between the Proposed Redevelopment, the reference case, further adjustment is needed and is made by accounting the difference between the room size between the Proposed Redevelopment the reference case. As a conservative approach, the corrected noise level would not be greater than the reference case even the room size of the Proposed Redevelopment is larger than the reference case. Moreover, the outer opening size of the Proposed Redevelopment is larger than the reference case, similar approach to adjustment of room size is also adopted to the outer opening size. Appendix 2.4 shows the sound attenuation adjustment of AW(BT) adopted in the Proposed Redevelopment. In case, the noise reduction of the proposed AW(BT) is higher than the residual exceedance, it is assumed that the reduction is equal to the residual exceedance for conservative assessment approach.
- 2.7.10 For NSR T1TYP31 which the room area is 4.6m<sup>2</sup>, it is noted that there would still have around 0.6 dB(A) exceedance after provision of the AW (BT) NPE. In order to further mitigate these minor exceedances, additional sound absorption material (SAM) at the window frame (top and outer opening side of mullion) of acoustic window is proposed. According to the approved Acoustic Window (Baffle Type) Mock-up Test Report for proposed development at T.P.T.L. 225, Tai Po, the acoustic window having addition of SAM at top of frame behind the sliding panel and at one side of frame can offer an additional 0.9 1.1 dB(A) reduction. For conservatism, it is assumed that the SAM able to provide at least 0.6 dB(A) traffic noise reduction in this assessment. As such, the NSR T1TYP31 would comply with the standard after the provision of the above mitigation measure.
  - c. Acoustic Balcony (Baffle Type) (AB(BT))-(KT)
- 2.7.11 Again, the design parameter of AB(BT) in Proposed Redevelopment may not be able to follow the reference case of EPD-PN, in view of the room area is much larger than that for the EPD-PN which is for 8 m<sup>2</sup> room area only. The room area of the living room is around 13m<sup>2</sup>, thus reference case from other developments is adopted. Below describes the reference AB(BT)-KT adopted at other approved project, such as Proposed Development at Kai Tak Area 1F1, proposed comprehensive development at Kai Tak Area 1F1, NKIL6568 etc. The project owner of the above-mentioned projects is the same. The noise attenuation performance provided by the AB(BT)-KT is obtained via laboratory testing which has been approved by EPD.
- 2.7.12 AB(BT)-KT comprises of an inner sliding glass panel. When the inner sliding glass panel is in closed condition and the outer sliding glass panel in open condition, an 100mm air gap is formed for the supply of fresh air and 375mm overlapping for noise mitigation effect. The design can enable natural ventilation through the gap between the outer

façade and inner sliding panel on one hand and prevent most noise from entering indoor environment on the other hand.

- 2.7.13 AB(BT)-KT is a typical combined balcony, with the A/C platform located at the adjacent side of the sliding door. Solid balustrades are adopted, surrounding the U.P. and balcony area.
- 2.7.14 A road traffic noise sound attenuation of the AB(BT)-KT for the living room with 11.2m<sup>2</sup> can reach 6.7 dB(A) noise reduction. The above noise attenuation performance is obtained via laboratory testing which has been approved by EPD.
- 2.7.15 Furthermore, the actual sound attenuation adopted at individual NSR would not be more than the residual exceedance estimated and the maximum sound attenuation mentioned above as a conservative approach.
- 2.8 Road Traffic Impact Assessment Result (Mitigated Case)
- 2.8.1 The predicted road traffic noise effects on the selected NSRs based on the noise mitigation measures discussed above were assessed and presented in Appendix 2.5. With the implementation of the above recommended mitigation measure, full compliance can be achieved for the residential towers. The compliance rate would be 100%.
- 2.9 Conclusion
- 2.9.1 Road traffic noise impact assessment has been carried out for the Proposed Redevelopment.
- 2.9.2 All practical and effective noise mitigation measures have been explored, which include podia building, building setback and orientation, acoustic window (baffle type), acoustic balcony (baffle type), and fixed glazing with/ without maintenance window.
- 2.9.3 After mitigation, no exceedance is found. No significant road traffic noise impact is anticipated for the Proposed Redevelopment. Figure 2.2 and Appendix 2.6 show the consolidated noise mitigation measures and schedule.

### 3. WASTE MANAGEMENT

#### 3.1 Introduction

3.1.1 This section presents the management and disposal strategy of the wastes generated from the construction work and operational phase. The options for waste minimization, reuse, recycling, collection, transportation and disposal of wastes arising from the construction, demolition work and operational phase have been examined. Where appropriate, procedures for waste reduction and management are considered and environmental control measures for avoiding and minimising the potential impacts are recommended.

#### 3.2 Legislation

- 3.2.1 The following legislations and guidelines are relevant to the handling, treatment and disposal of waste in HKSAR and references were made in assessing the potential impacts and their avoidance or mitigation:
  - Waste Disposal Ordinance (Cap. 354);
  - Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354C);
  - Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 354N); and
  - Practice Note for Authorized Persons and Registered Structural Engineers Construction and Demolition Waste (PNAP ADV-19, also known as PN for AR&RSE No. 243)
- 3.2.2 The following guidelines also relate to waste management and disposal:
  - Waste Disposal Plan for Hong Kong (1989);
  - Hong Kong Planning Standards and Guidelines (HKPSG), Chapter 9 Environment;
  - WBTC No. 2/93, Public Dumps;
  - WBTC No. 2/93B, Public Filling Facilities;
  - WBTC No. 12/2000, Fill Management, Hong Kong SAR Government;
  - WBTC No. 12/2002, Specification Facilitating the Use of Recycled Aggregates, Works Bureau, Hong Kong SAR Government;
  - WBTC No. 32/92, The Use of Tropical Hard Wood on Construction Site;
  - ETWB TC(W) No. 19/2005 Environmental Management on Construction Sites;
  - DEVB TC(W) No. 2/2011, Encouraging the Use of Recycled and other Green Materials in Public Works Projects;
  - DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials, Development Bureau, Hong Kong SAR Government;
  - DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness, Works Bureau, Hong Kong SAR Government;
  - DEVB TC(W) No. 9/2011, Enhanced Control Measures for Management of Public Fill;
  - CEDD TC No. 3/2015, Management of Construction and Demolition Materials;
  - ProPECC PN2/97, Handling of Asbestos Containing Materials in Buildings;
  - Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes, EPD (1992); and
  - Project Administration Handbook for Civil Engineering Works.
- 3.3 Assessment Methodology

- 3.3.1 The assessment of the potential waste management implications during the construction and operation phases of the Project has been conducted in accordance with Annexes 7 and 15 of the EIAO-TM, including the following tasks:
  - Estimation of the types and quantities of the wastes generated;
  - Evaluation of opportunities for waste reduction and re-use;
  - Identification of disposal options for each type of wastes;
  - Assessment of potential environmental impacts arising from the wastes management with respect of potential hazards, air and odour emissions, noise, wastewater discharge, and public transport; and
  - Assessment of the impacts caused by handling, collection, transportation and reuse /disposal of wastes.
- 3.3.2 Prior to considering the disposal options for various types of waste, opportunities for reducing waste generation, on-site or off-site reuse and recycling have been evaluated. Measures which can be taken in the planning and design phases (e.g. by modifying the design approach) and in the construction phase for maximizing waste reduction have been separately considered. Practices to promote segregation of waste materials are additionally considered for advancing the waste management efficiency.
- 3.3.3 After considering the opportunities for reducing waste generation and maximizing reuse, the types and quantities of the waste required to be disposed of have been estimated and the disposal options for each type of waste have been described. The disposal method recommended for each type of waste has been taken into account the result of the assessment. The impacts caused by handling (including stockpiling, labelling, packaging and storage), collection and reuse / disposal of waste have been addressed and appropriate mitigation measures have been proposed.
- 3.4 Identification and Evaluation of Potential Impact during Construction Stage
- 3.4.1 The construction activities to be carried out for the proposed Project would generate a variety of wastes that can be divided into distinct categories based on their composition and ultimate method of disposal. The identified waste types include:
  - Construction and Demolition (C&D) materials (including those from site clearance);
  - General refuse generated by the workforce; and
  - Chemical and oily wastes due to maintenance of equipment.

C&D Materials

- 3.4.2C&D materials comprise mainly of unwanted materials, including surplus materials arising from excavations that are generated from the works (e.g. site clearance, demolition works of substructure, site formation works, excavation work for basement). Inert soft C&D materials comprise of soil, sand, clay, slurry, etc., while hard C&D materials comprise of crushed concrete, asphalt, rock, etc. The amount of non-inert C&D materials generated during site clearance would be minor (as there is little vegetation at the Subject Site). C&D materials may comprise different types of materials, including:
  - Inert C&D materials (also known as public fill, including soil, rock debris, rubble earth, concrete, etc.) do not decompose and are suitable to reuse as filling materials for land reclamation and site formation. Inert C&D materials could be reused on-site as filling materials. For those inert C&D materials that cannot be reused should be delivered to Public Fill Reception Facilities.
  - Non-inert C&D materials (also known as C&D waste, including bamboo, timber, paper, metal, glass, plastic, packaging wastes, etc.). Non-inert C&D materials should be reused or recycled as far as possible. For those non-inert C&D materials

that cannot be reused or recycled, they should be disposed of at designated landfill sites as last resort.

- 3.4.3 The general waste management strategy is to avoid waste generation in the first place. Should it be unavoidable, reduction and segregation at-source should be exercised as far as practicable and recycling and reuse should be adopted at the same time to salvage all the recyclable and reusable materials as much as possible.
- 3.4.4 Inert C&D materials should be re-used on-site (e.g for backfilling) if it is practical and/or delivered to public filling area or other CEDD designated public fill reception facilities. Non-inert C&D materials (i.e. C&D waste) should be re-used or recycled. For those that cannot be reused or recycled, they should be disposed of at designated landfill sites as last resort.
- 3.4.5 According to ETWB TC(W) 19/2005 on "Environmental Management on Construction Sites", waste management plan (WMP) becomes part of Environmental Management Plan (EMP) to be submitted to Architect/ Engineer for approval before construction works. The Project team will require the Contractor(s) to submit WMPs for approval. The WMPs will include appropriate mitigation measures to avoid, reduce, reuse and recycle C&D materials. It will ensure that the day-to-day operations on site comply with the approved WMPs. It will control the disposal of inert C&D materials and non-inert C&D materials to public fill reception facilities and landfills, respectively, through a trip-ticket system. It will require the Contractor(s) to separate public fill from C&D materials for disposal at appropriate facilities. It will record the disposal, reuse and recycling of C&D materials for monitoring purposes.
- 3.4.6 The Contractor(s) should be responsible for ensuring that all on-site wastes will be collected by approved waste collectors and appropriate measures should be undertaken to minimise adverse impacts to the surrounding environment, such as dust generation. The Contractor(s) must also ensure that all necessary waste disposal permits have been obtained before actions.
- 3.4.7 Prior to deliver of non-inert C&D materials, it is recommended that wood, steel, glass and other metals will be collected separately for re-use and/or recycling and inert C&D materials utilized as fill materials to minimize the quantity of waste to be delivered to the Public Fill Reception Facilities and landfill. The details are shown in Table 5.1.
- 3.4.8 All the soil generated from the underground work should be refill on site to form the site to the required level. Other C&D materials should be used on-site as far as practicable.
- 3.4.9 If the total quantity of C&D materials generated from the Project is estimated to be over 50,000 m<sup>3</sup>, a Construction and Demolition Material Management Plan (C&DMMP) is required to be prepared at the feasibility study or preliminary design stage in accordance with Chapter 4 Clause 4.1.3 of Project Administration Handbook for Civil Engineering Works. The purpose of the C&DMMP is to actively seek to minimise generation of C&D materials and to reuse inert materials generated, including rock, as far as possible. The C&DMMP shall be signed off by a D1 officer. The C&DMMP has been prepared in accordance with the guidelines stipulated in Appendix 4.9 of Project Administration Handbook for Civil Engineering Works for separate submission.

#### Chemical Waste

- 3.4.10 Construction plant and equipment will require regular maintenance and servicing, which would generate waste such as solvents, lubrication oil and fuel, etc. Chemical wastes arising during the construction phase may pose serious environmental, health and safety hazards if not stored and disposed of in an appropriate manner.
- 3.4.11 It is difficult to quantify the amount of chemical wastes as it will solely depend on the contractor's on-site maintenance practice and the quantities of plant and vehicles utilized at the construction site. Nevertheless, it is anticipated that the quantity of

chemical waste such as lubrication oil and solvent produced from equipment maintenance would be small and less than hundred litres per month.

- 3.4.12 The contractor is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.
- 3.4.13 Storage, handling, transportation and disposal of chemical waste should be arranged in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Waste published by the EPD. Chemical wastes such as wasted solvents, lubrication oil and fuel, etc. will need special handling and storage arrangements and should be collected by licensed collectors for subsequent disposal and appropriate treatment at licensed waste disposal facilities, for example the Chemical Waste Treatment Facility Centre (CWTC) in Tsing Yi. Mitigation and control requirements for chemical waste are provided in the "Recommended Pollution Control Clauses for Construction Contracts" available in EPD website mentioned the handling, storage and disposal of chemical wastes. With good management and site particles, adverse environmental impacts should not result.

#### General Refuse

- 3.4.14 The volume of general site wastes to be generated will depend on the Contractor's operating procedure and practices. In addition, during the construction phase, the workforce would generate general refuse, comprising food scraps, paper, empty containers etc. Rapid and effective collection of site wastes will be required to prevent waste materials being blown around by wind, flushed or leached into the environment, and odour nuisance. The amount of general refuse which is likely to arise will be largely dependent on the size of the workforce employed by the Contractor(s).
- 3.4.15 As no information regarding the number of workers on-site is available at this early project state, it has been assumed that about 80 workers in average will work on the Subject Site during site formation at any one time. Based on a generation rate of 0.65kg per worker per day, the daily arising of general refuse during site formation would be approximately 52kg/day.
- 3.4.16 Preliminary quantity estimation of construction waste involved and disposal method is summarised in the Table 5.1 below.

Waste Material Type		Estimated Quantity Generated	Disposal Method
Inert C&D materials (Soil, rock debris, rubble	Demolition of Existing Building	~ 132654.2 m <sup>3</sup>	To be reused or recycled on site or in other projects;
earth, concrete etc.)	Excavation of Basements	~ 9011.3 m <sup>3</sup>	and delivered to Public Fill Reception Facilities for
	Construction of New Buildings/Structures	~ 270.3 m <sup>3</sup>	other beneficial reuse
Non-inert C&D materials (Bamboo, timber, paper, metal,	Demolition of Existing Building and Excavation of Basements	~6,938.7 m <sup>3</sup>	Disposed to NENT landfill.

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Waste Material Type		Estimated Quantity Generated	Disposal Method
glass, plastic, packaging wastes etc.)	Construction of New Buildings/Structures	~108.1 m³	
Chemical Waste	-	Less than hundred litres /month (preliminary estimate)	To be collected by licensed chemical waste collector and delivered to CWTC
General Refuse	-	52kg/day (preliminary estimate, assuming there are 80 workers at any one time with generation rate of 0.65kg per worker per day)	Recyclables to recyclers; Non-recyclables to landfill

- 3.5 Mitigation Measures During Construction Phase
- 3.5.1 The mitigation measures for construction phase are recommended based on the waste management hierarchy principles. Recommendations of good site practices, waste reduction measures as well as the waste transportation, storage and collection are described in following sub-sections.

#### Good Site Practices

- 3.5.2 Appropriate waste handling, transportation and disposal methods for all waste arisings generated during the construction phase should be implemented to ensure that construction waste do not enter the nearby water sensitive receivers.
- 3.5.3 It is expected that significant impacts from waste management would not arise, provided that good site practices are strictly followed. Recommendations for good site practices during construction include:
  - Nomination of approved personnel, such as a site manager, to be responsible for good site practices, and making arrangements for collection of all wastes generated at the site and effective disposal to appropriate facilities;
  - Training of site personnel in proper waste management and chemical waste handling procedures;
  - Provision of sufficient waste disposal points and regular collection for disposal;
  - Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;
  - Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.
- 3.5.4 In order to monitor the disposal of C&D material at landfills and public fill reception facilities, as appropriate, and to control fly tipping, a trip-ticket system should be included as one of the contractual requirements to be implemented by the Contractor. Reference shall be made to DEVB TCW No. 6/2010 for details.

#### Waste Reduction Measures

- 3.5.5 Good management and control can prevent the generation of significant amounts of waste. Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:
  - Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;

- Separate labelled bins shall be provided to segregate aluminium cans from other general refuse generated by the work force, and to encourage collection of by individual collectors;
- Any unused chemicals or those with remaining functional capacity shall be recycled;
- Maximising the use of reusable steel formwork to reduce the amount of c&d material;
- Prior to disposal of non-inert c&d material, it is recommended that wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill;
- Proper storage and site practices to minimise the potential for damage or contamination of construction materials;
- Store construction materials carefully with good planning to minimise amount of waste generated and avoid unnecessary generation of waste; and
- Minimize over ordering of concrete, mortars and cement grout by careful check before ordering.
- 3.5.6 In addition to the above good site practices and waste reduction measures, specific mitigation measures are recommended for the identified waste to minimise environmental impacts during handling, transportation and disposal of these wastes.

#### General Refuse

3.5.7 Recycle bins will be provided onsite to collect recyclable wastes such as paper, metal (e.g. cans), plastic and glass. Recyclable wastes will be segregated from non-recyclable waste to be stored in enclosed bins or compaction units. A reputable waste collector should be employed by the contractor to remove general refuse from the site on a daily basis. Recyclable waste will be collected in appropriate frequency to ensure no over stacking of recyclable wastes. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material.

#### Construction and Demolition Material

- 3.5.8 The C&D material generated from site formation should be sorted on-site into inert C&D material (that is, public fill) and non-inert C&D material. In order to minimise the impact resulting from collection and transportation of C&D materials for off-site disposal, the excavated material comprising fill material should be reused on-site as backfilling material as far as practicable. Non-inert C&D material, such as wood, plastic, steel and other metals should be reused or recycled and, as a last resort, disposed of to landfill.
- 3.5.9 Suitable areas should be designated within the site for temporary stockpiling of C&D material and to facilitate the sorting process. Within stockpile areas, the following measures should be taken to control potential environmental impacts or nuisance:
  - Covering material during heavy rainfall;
  - Locating stockpiles to minimise potential air quality, water quality and visual impacts; and
  - Minimising land intake of stockpile areas as far as possible.

#### Chemical Wastes

3.5.10 For those processes which would generate chemical waste, it may be possible to find alternatives to eliminate the use of chemicals, to reduce the generation quantities or to select a chemical type of less impact on environment, health and safety as far as possible.

3.5.11 If chemical wastes are produced at the construction site, the Contractor should register with EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosives, flammable, oxidising, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport, and disposal of the chemical wastes generated at the Chemical Waste Treatment Centre at Tsing Yi, or other licenced facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.

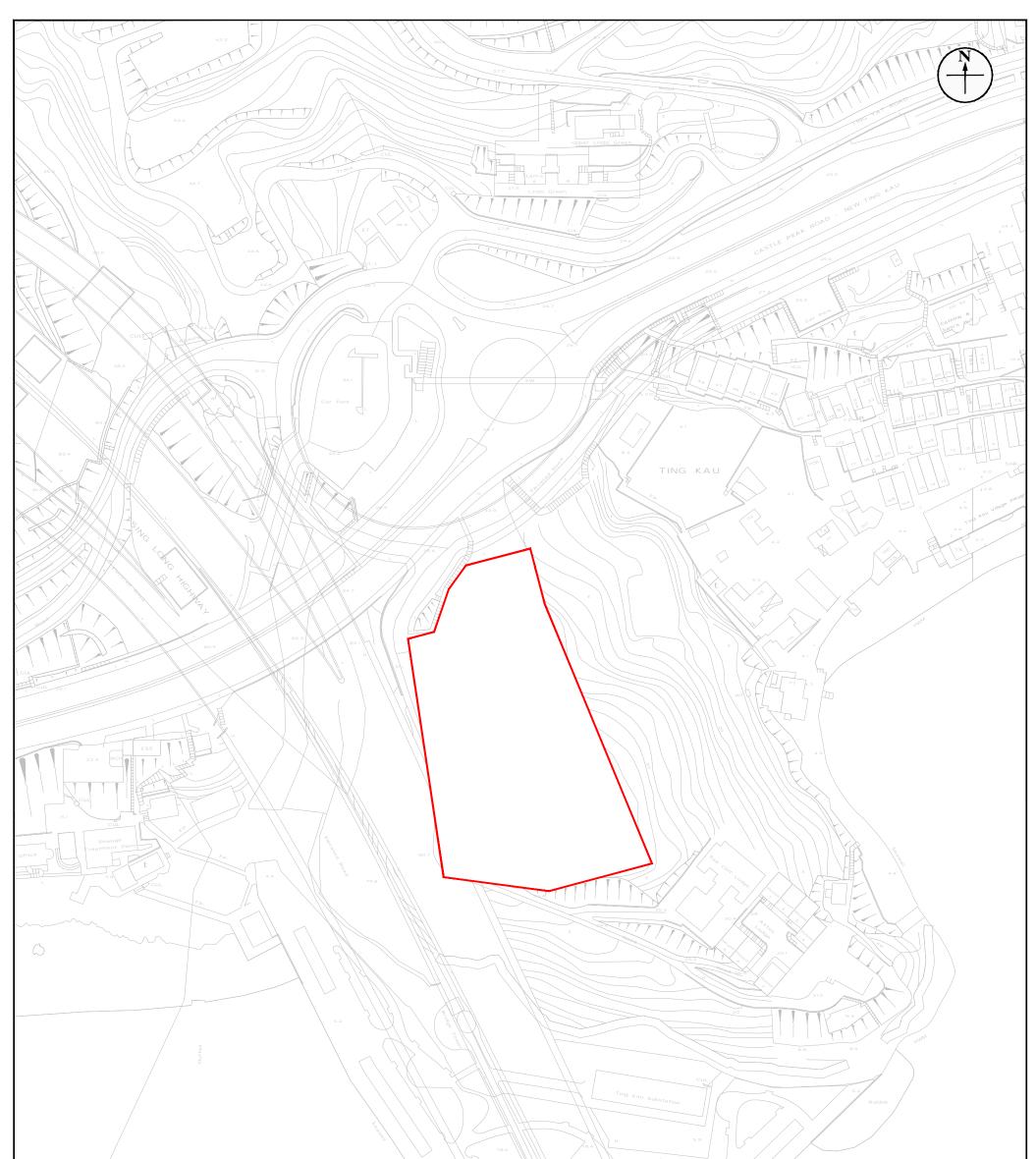
### 4. OVERALL CONCULSION

- 4.1.1 An environmental assessment has been conducted for the Proposed Redevelopment.
- 4.1.2 An assessment has been carried out for the Proposed Redevelopment. After considering the relevant constraints on the Proposed Redevelopment, all possible noise mitigation measures have been comprehensively studied and all practicable noise mitigation measures have been adopted. Full compliance of road traffic noise standard (i.e. L10(1-hr) 70 dB(A)) can be achieved.
- 4.1.3 With the implementation of the waste management measures, no significant impact is anticipated due to the waste generated during construction stages.

Section 16 Planning Application for Submission of Layout Plan for Permitted 'Flat' and 'Social Welfare Facility' Uses at Tsuen Wan Inland Lot 5 and Lot No. 429 in D.D. 399, Ting Kau, Tsuen Wan

Figures





Legend	5.2 LT	
Subject Site		
Figure: 1.1		
Title: Location of Subject Site and It	s Environs	Drawn by: KK
		Checked by: TC
	Ibmission of Layout Plan For Permitted 'Flat' and 'Social	Rev.: 2.1
Welfare Facility' use at Tsuen Wan Inla	and Lot 5 and Lot No. 429 In D.D. 399, Ting Kau, Tsuen Wan	Date: Apr 2024

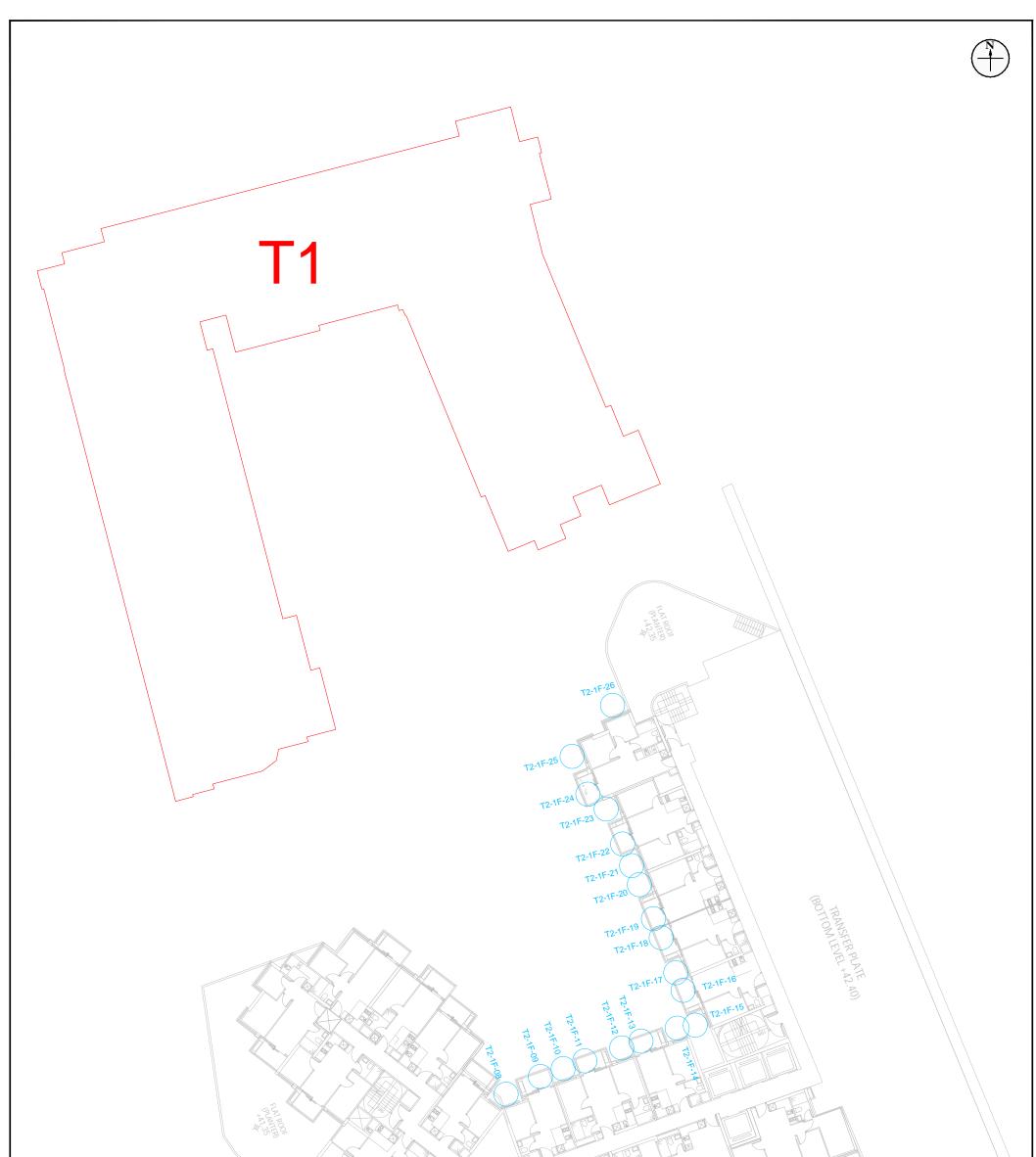
Q:\Projects\SHKTKBHSEI00\05 Assessments\02 Noise\02 Traffic\20240424\TNIA\_240424.dxf



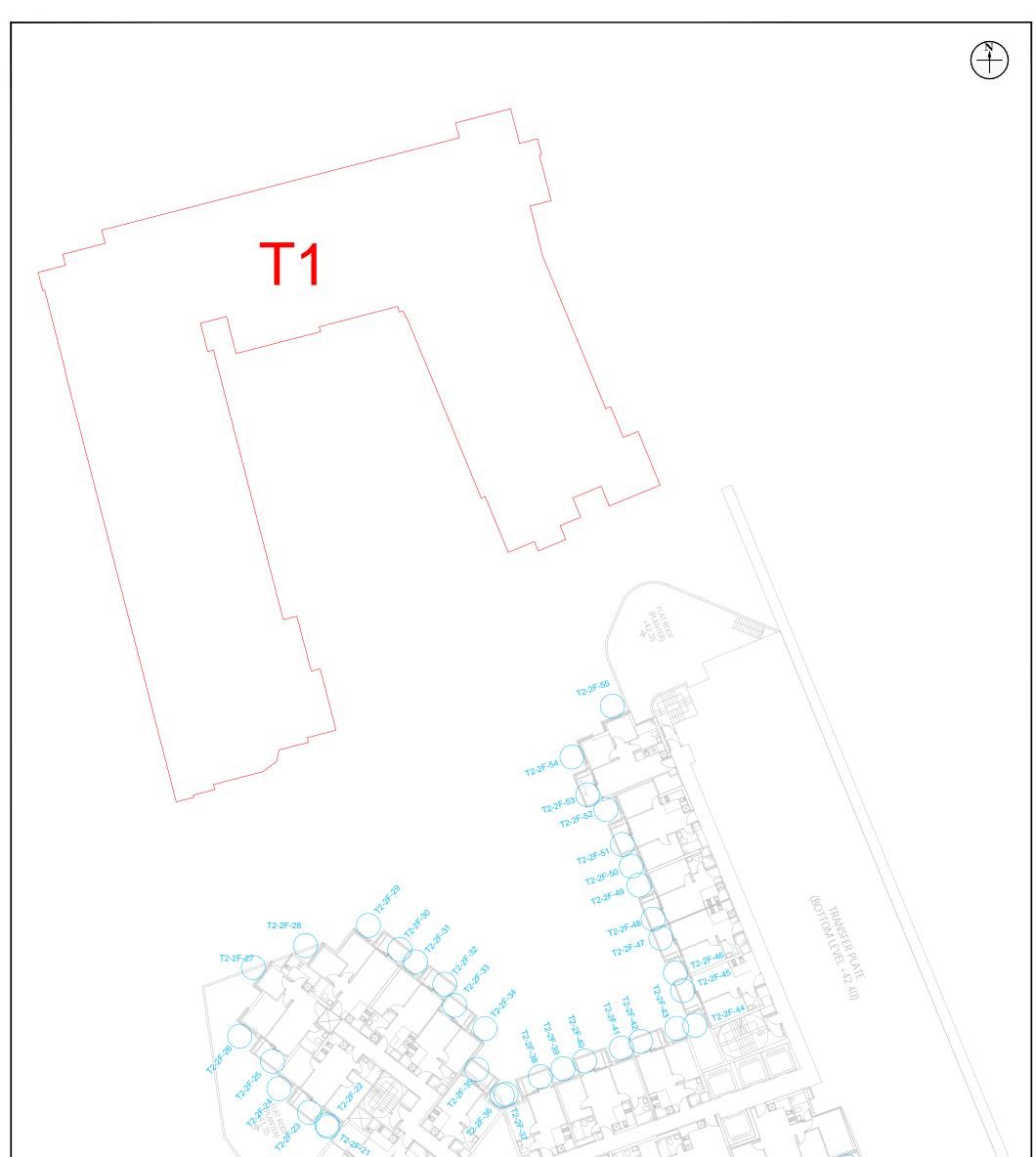
Provide Contraction of the second sec	Legend: Noise Sensitive Receiver
Figure: 2.1a	RAMBOLL
Title:         Location of Representative Noise Sensitive Receivers (T1-GF)	Drawn by: KK
	Checked by: TC
<b>Project:</b> Section 16 Planning Application For Proposed Redevelopment Royal View Hotel a	at Rev.: 2.1
Ting Kau, Tsuen Wan	Date: Jul 2024



		Legend: Noise Sensitive Receiver
Figure: 2	.1b	RAMBOLL
Title: L	Location of Representative Noise Sensitive Receivers (T1-1F)	Drawn by: KK
		Checked by: TC
Project: S	ection 16 Planning Application For Proposed Redevelopment Royal View Hotel at	Rev.: 2.1
T	ing Kau, Tsuen Wan	Date: Jul 2024



	Traiteon Traiteon Traiteon Traiteon Traiteon		Legend:	
			Nois Rece	e Sensitive eiver
Figure:	2.1c	F	амво	LL
Title:	Location of Representative Noise Sensitive Receivers (T2-1F)	Drav	wn by:	KK
		Che	cked by:	TC
<b>Project:</b>	Section 16 Planning Application For Proposed Redevelopment Royal View Hotel at	Rev	.: 2	.1
	Ting Kau, Tsuen Wan	Date	e: Jul 2	2024



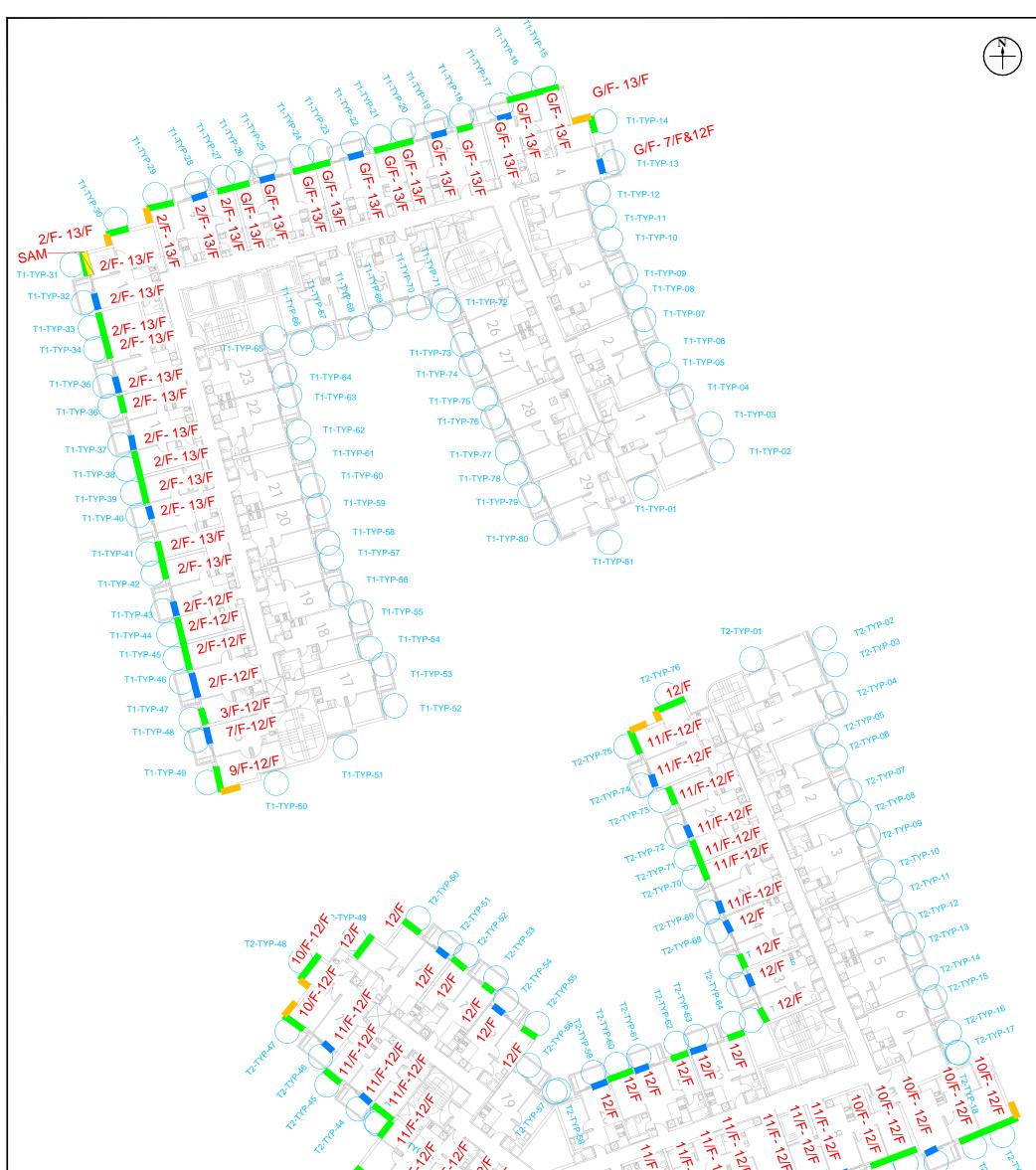
	Legend: Noise Sensitive Receiver
Figure: 2.1d	RAMBOLL
Title: Location of Representative Noise Sensitive Receivers (T2-2F)	Drawn by: KK
	Checked by: TC
<b>Project:</b> Section 16 Planning Application For Proposed Redevelopment Royal View Hotel at	Rev.: 2.1
Ting Kau, Tsuen Wan	Date: Jul 2024



	Legend: Noise Sensitive Receiver
Figure: 2.1e	RAMBOLL
Title:         Location of Representative Noise Sensitive Receivers (T1& T2-TYP)	Drawn by: KK
	Checked by: TC
<b>Project:</b> Section 16 Planning Application For Proposed Redevelopment Royal View Hotel at	Rev.: 2.1
Ting Kau, Tsuen Wan	Date: Jul 2024



12-12F-30     12-12F-30       12-12F-30	Legend: Noise Sensitive Receiver
Figure: 2.1f	RAMBOLL
<b>Title:</b> Location of Representative Noise Sensitive Receivers (T1-13F& T2-12F)	Drawn by: KK
	Checked by: TC
<b>Project:</b> Section 16 Planning Application For Proposed Redevelopment Royal View Hotel at	Rev.: 2.1
Ting Kau, Tsuen Wan	Date: Jul 2024



Terres te	_	nd: Acoustic Window (Baffle Type)- NPE Acoustic Balcony (Baffle Type)- KT Fixed glazing with/ without Maintenance Window
Figure: 2.2	1	RAMBOLL
<b>Title:</b> Location of Proposed Noise Mitigation Measures (T1& T2)		Drawn by: KK Checked by: TC
<b>Project:</b> Section 16 Planning Application For Proposed Redevelopment Royal View I Ting Kau, Tsuen Wan	Hotel at	Rev.:         2.1           Date:         Jul 2024

Appendix 1.1 Floor Plans, MLP and Section of Proposed Redevelopment





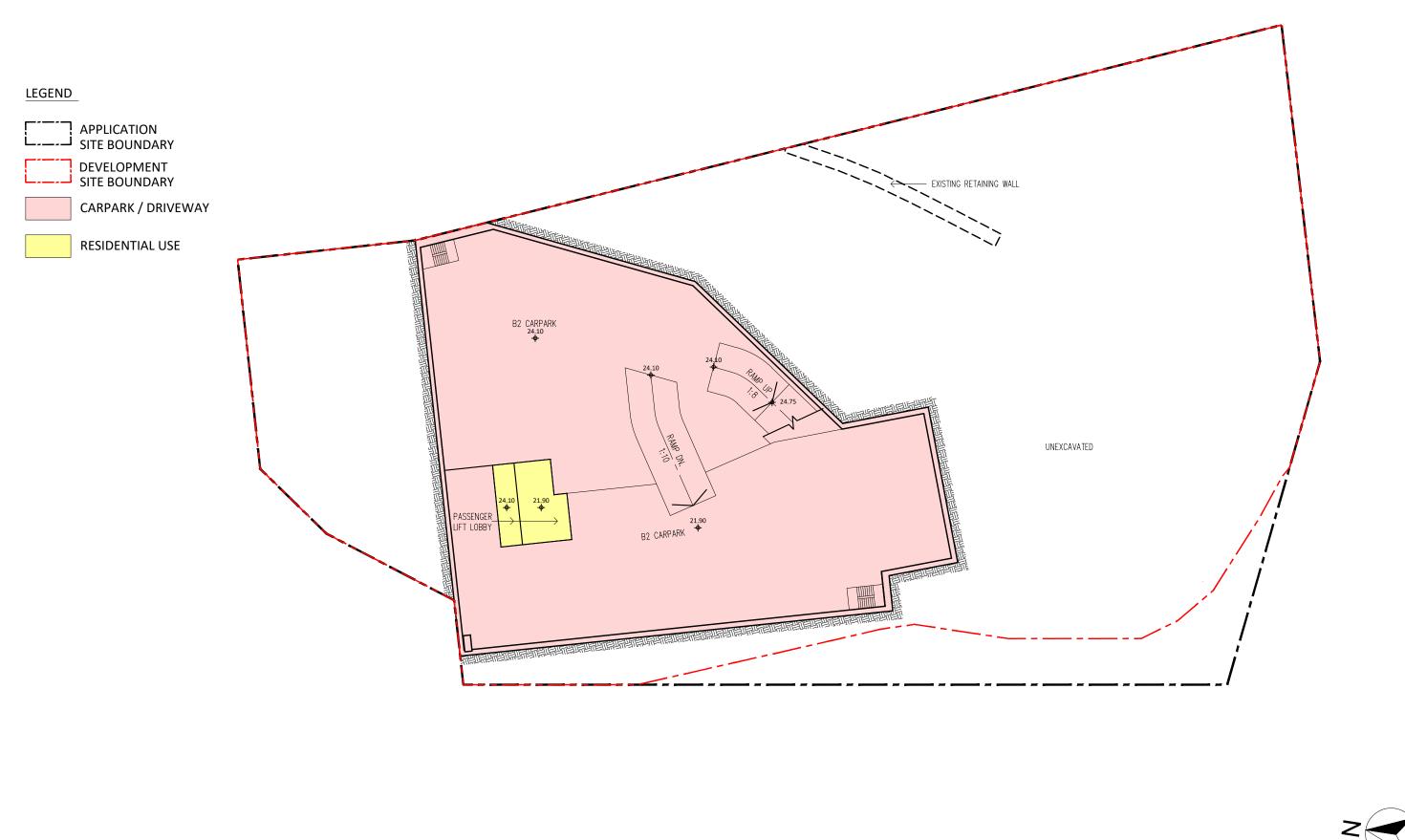
DE = DAY CARE CENTRE FOR THE ELDERLY LMR = LIFT MACHINE ROOM

## INDICATIVE MASTER LAYOUT PLAN

PROPOSED REDEVELOPMENT AT ROYAL VIEW HOTEL AT TING KAU, N.T.



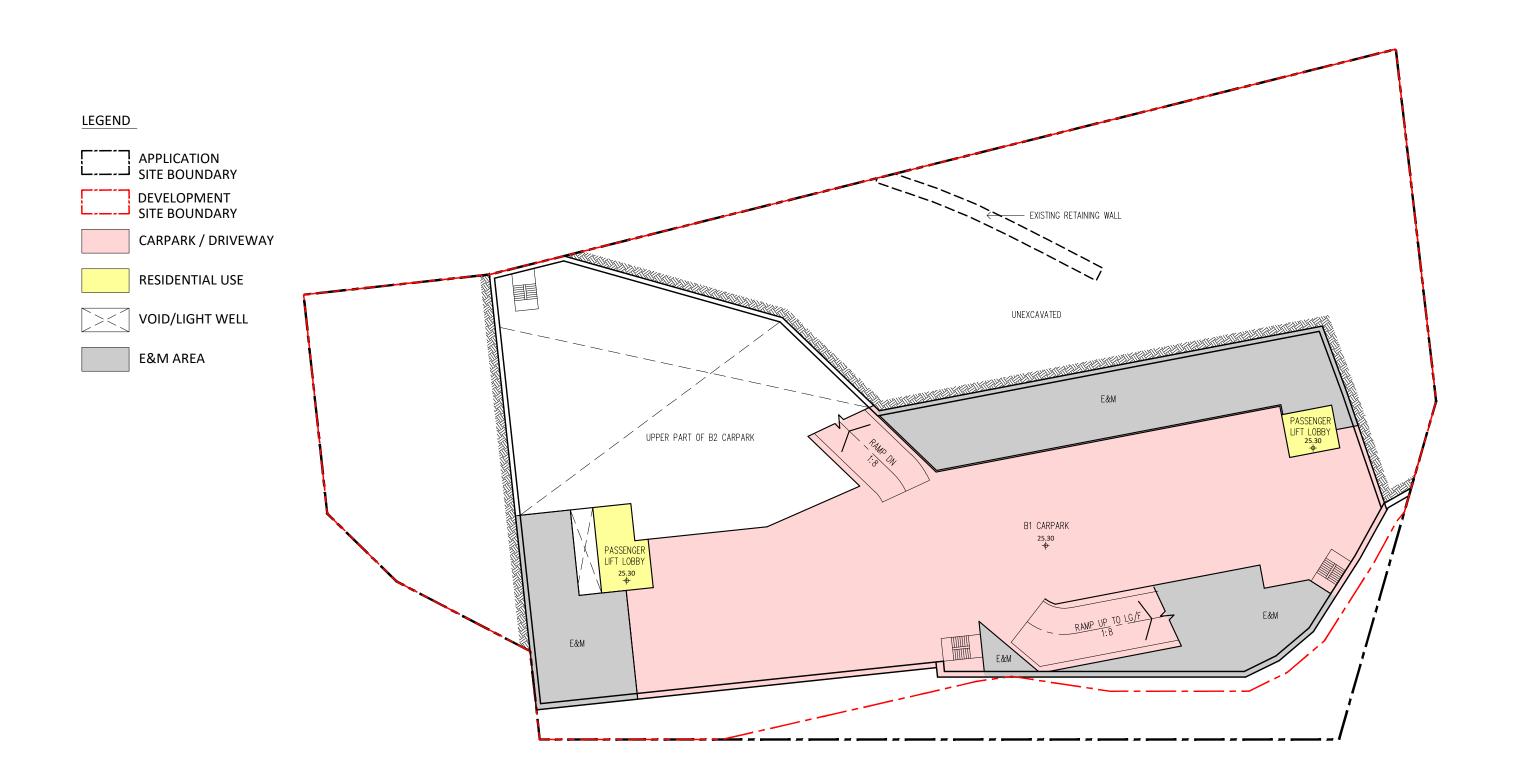




## INDICATIVE BASEMENT 2 FLOOR PLAN

PROPOSED REDEVELOPMENT AT ROYAL VIEW HOTEL AT TING KAU, N.T.



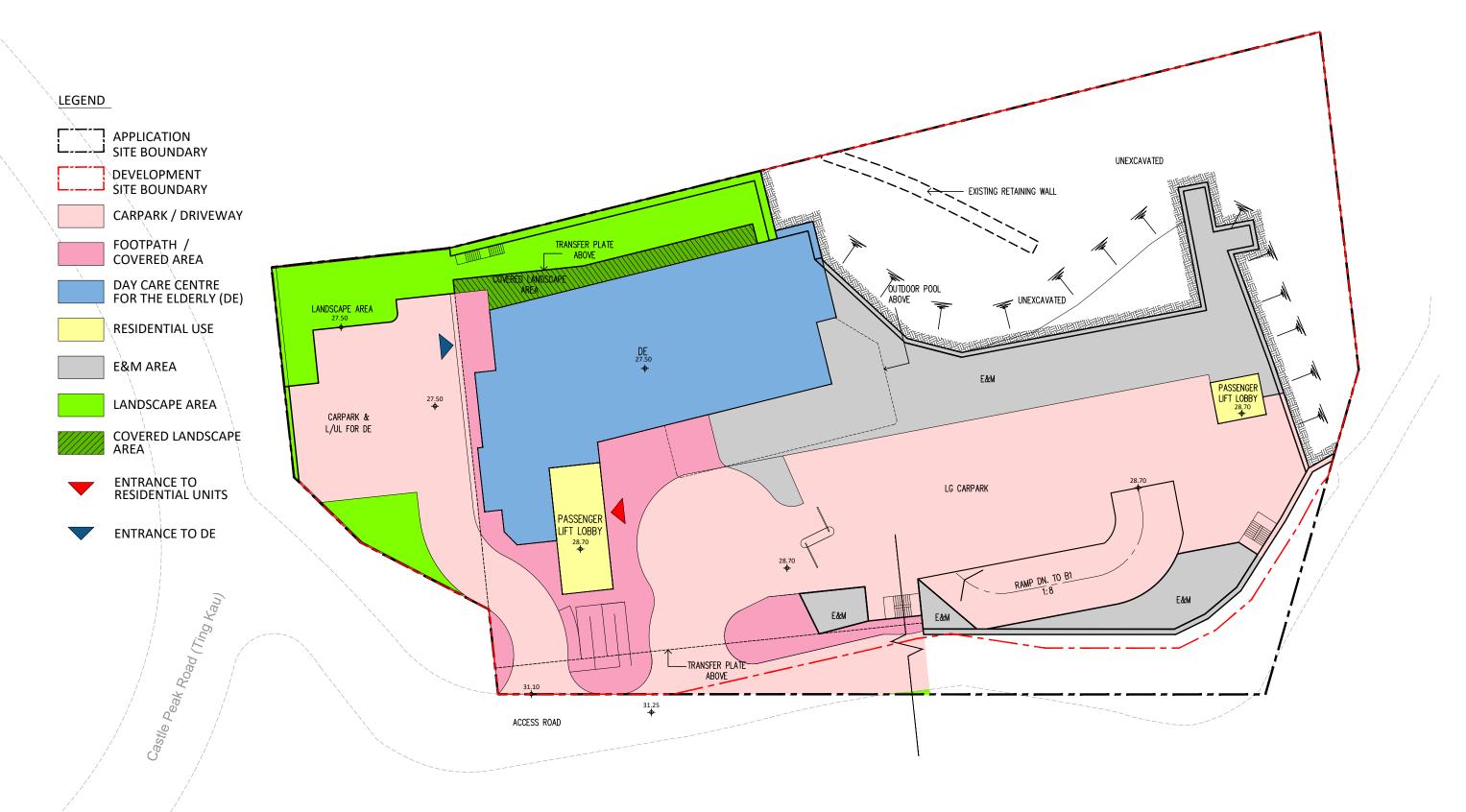


## INDICATIVE BASEMENT 1 FLOOR PLAN

PROPOSED REDEVELOPMENT AT ROYAL VIEW HOTEL AT TING KAU, N.T.







# INDICATIVE LOWER GROUND FLOOR PLAN

PROPOSED REDEVELOPMENT AT ROYAL VIEW HOTEL AT TING KAU, N.T.





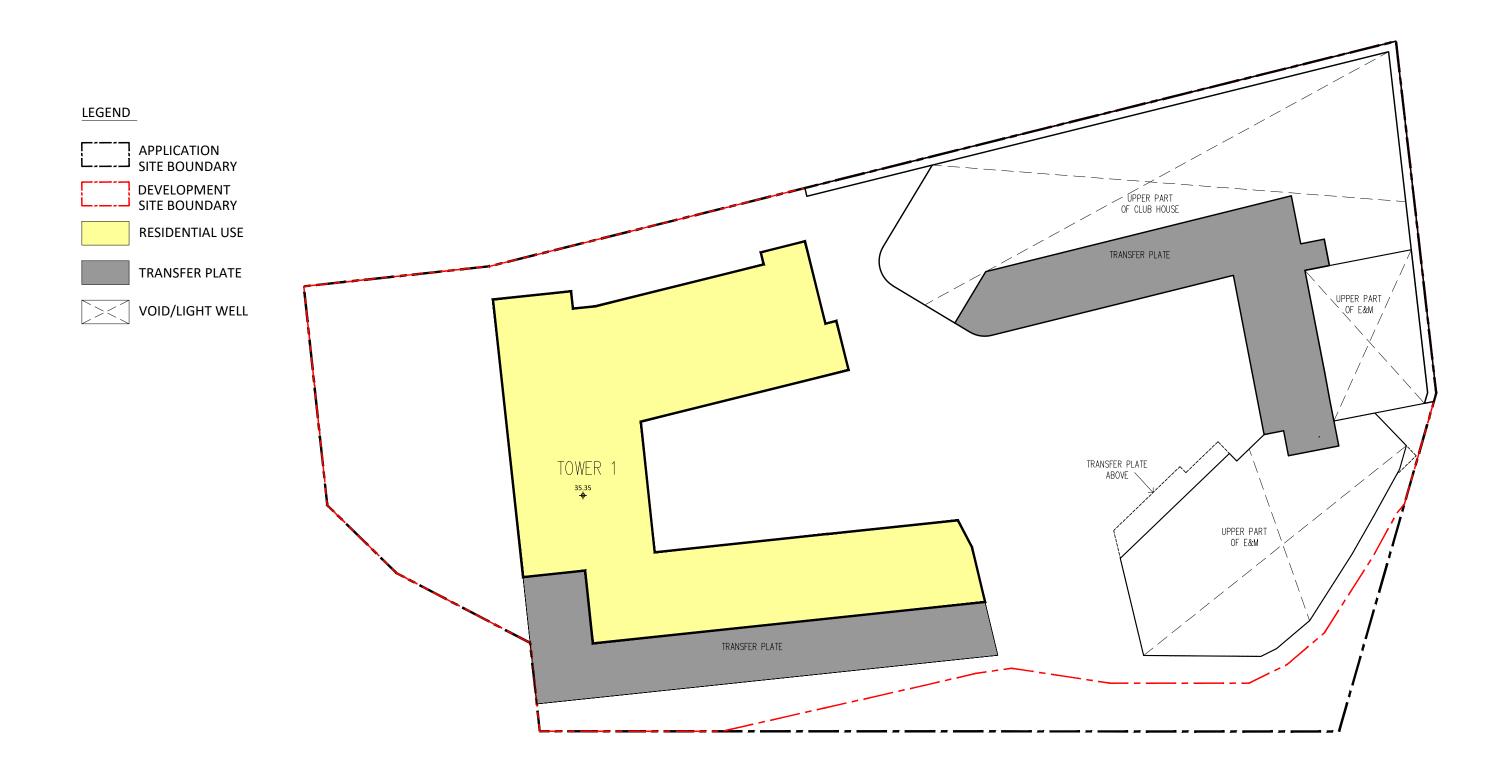


## INDICATIVE GROUND FLOOR PLAN

PROPOSED REDEVELOPMENT AT ROYAL VIEW HOTEL AT TING KAU, N.T.





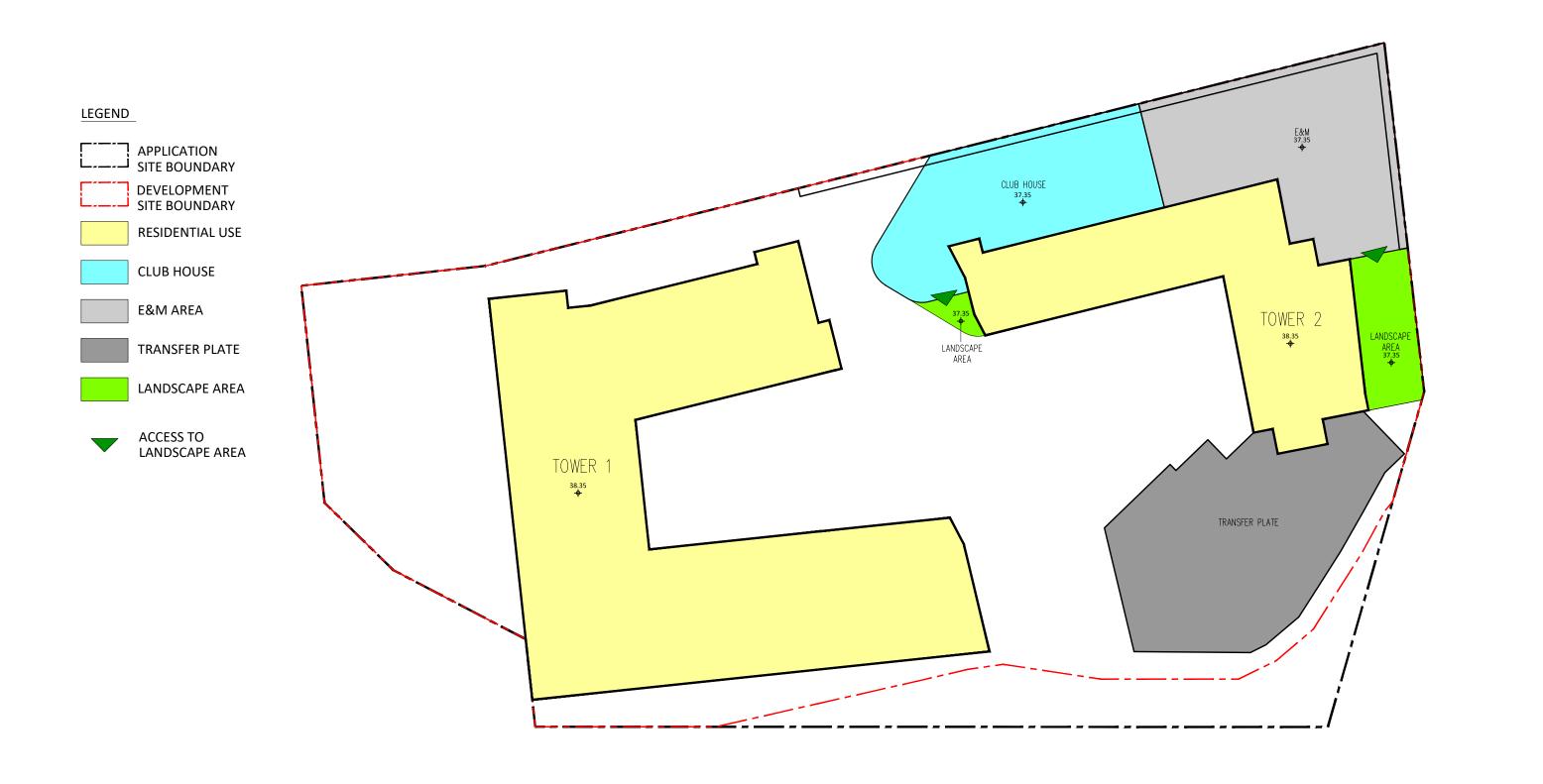


# INDICATIVE T1 1st. & T2 UPPER PART OF CLUB HOUSE FLOOR PLAN

PROPOSED REDEVELOPMENT AT ROYAL VIEW HOTEL AT TING KAU, N.T.





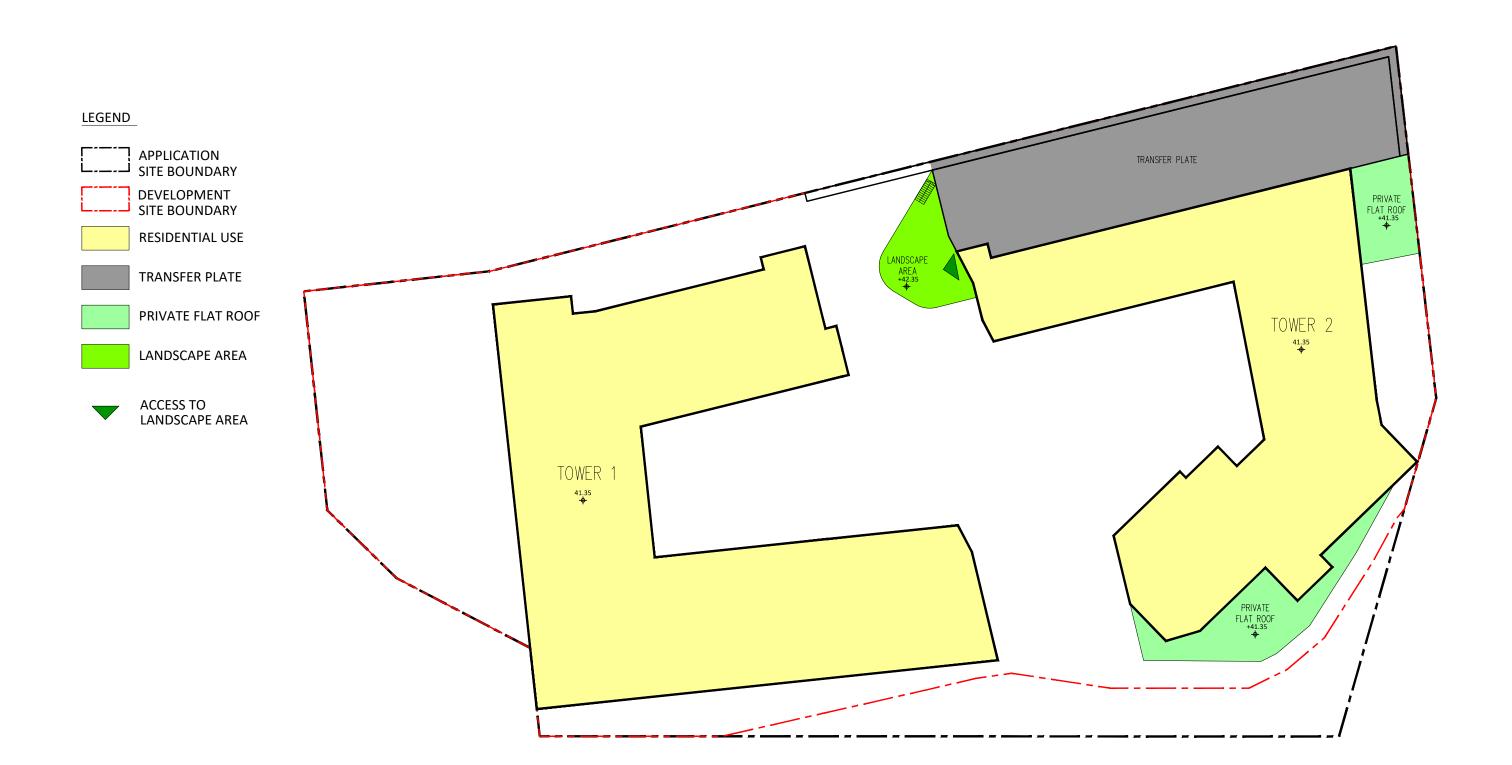


## INDICATIVE T1 2nd. & T2 1st. FLOOR PLAN

PROPOSED REDEVELOPMENT AT ROYAL VIEW HOTEL AT TING KAU, N.T.





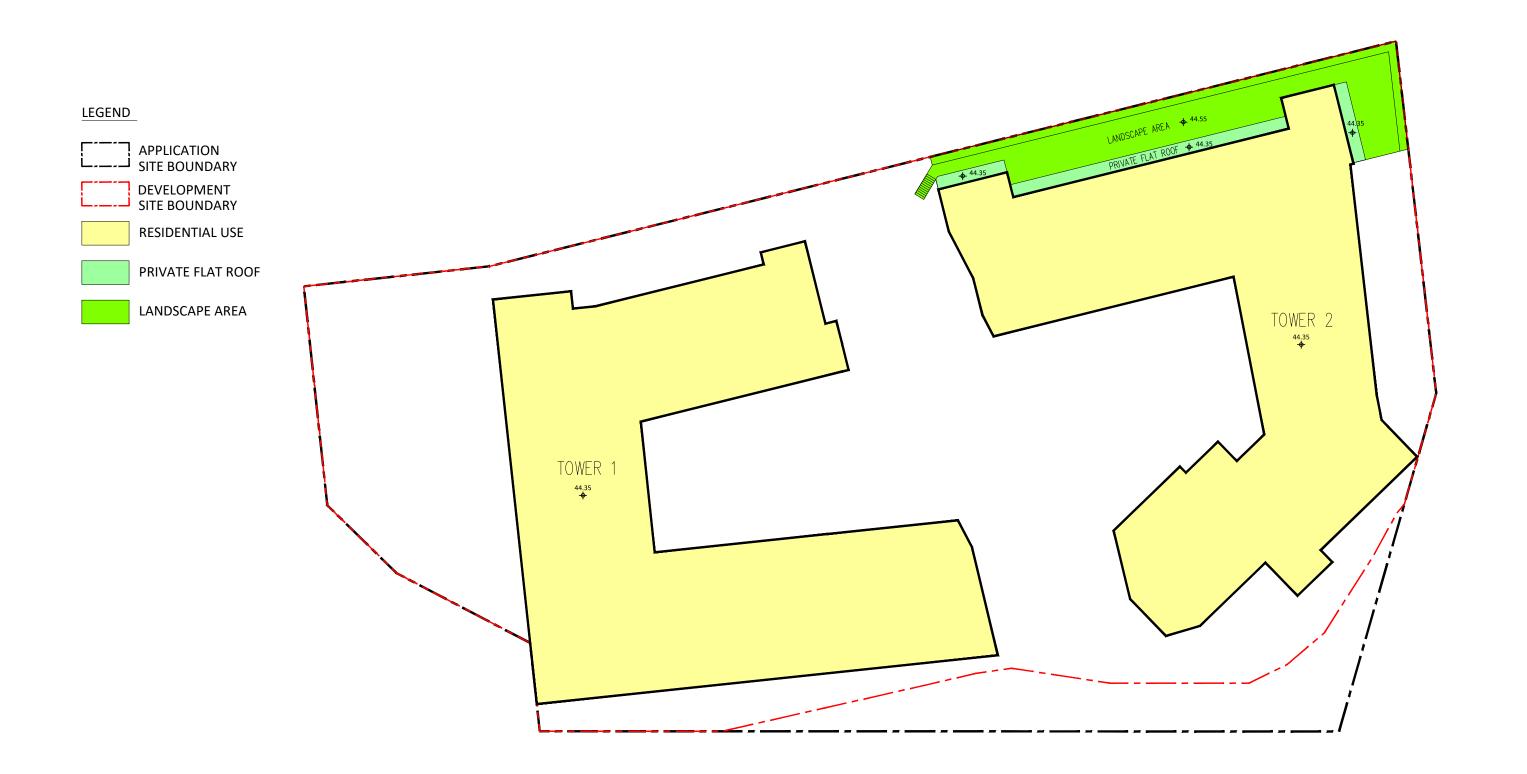


## INDICATIVE T1 3rd. & T2 2nd. FLOOR PLAN

PROPOSED REDEVELOPMENT AT ROYAL VIEW HOTEL AT TING KAU, N.T.





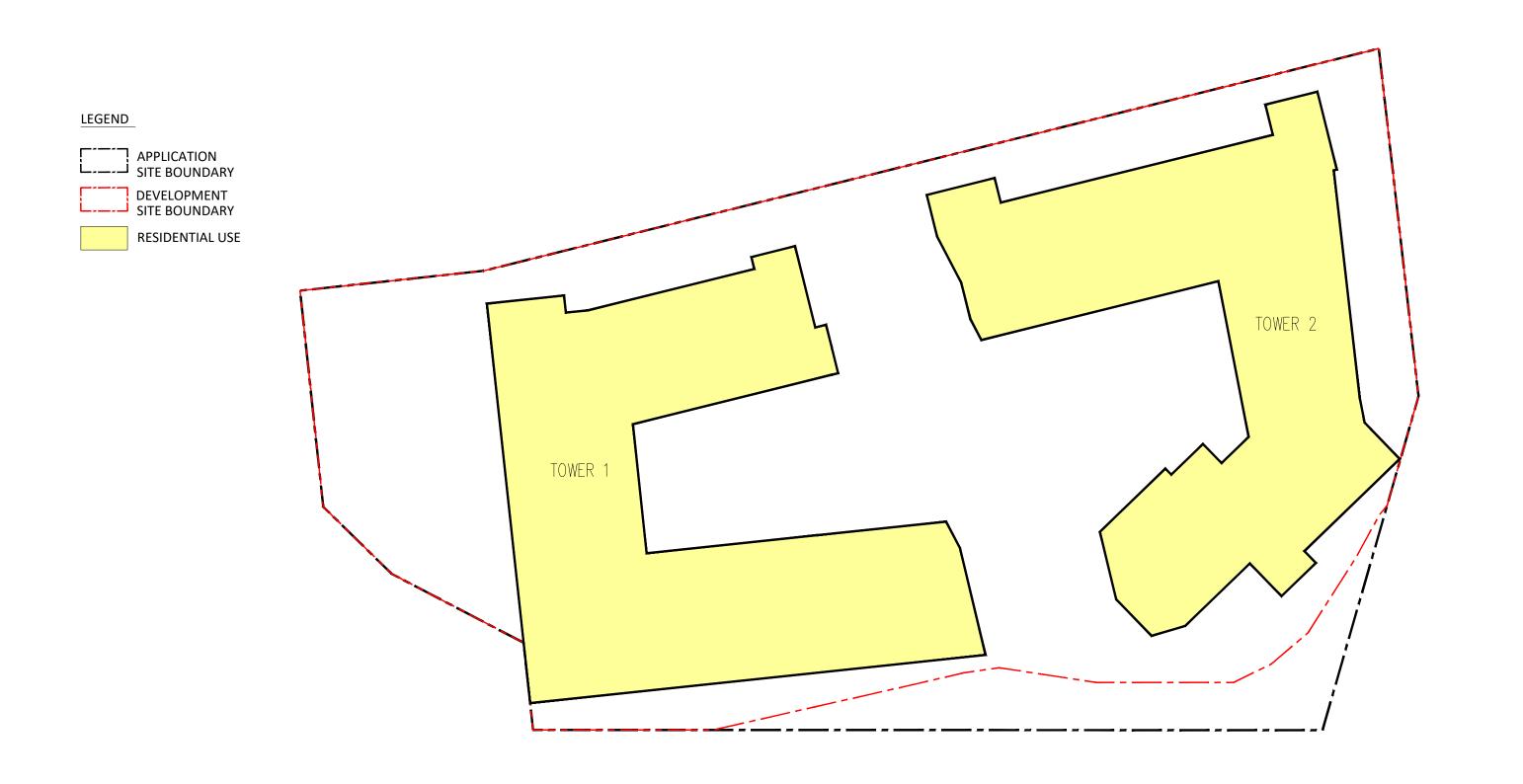


# INDICATIVE T1 4th. & T2 3rd. FLOOR PLAN

PROPOSED REDEVELOPMENT AT ROYAL VIEW HOTEL AT TING KAU, N.T.





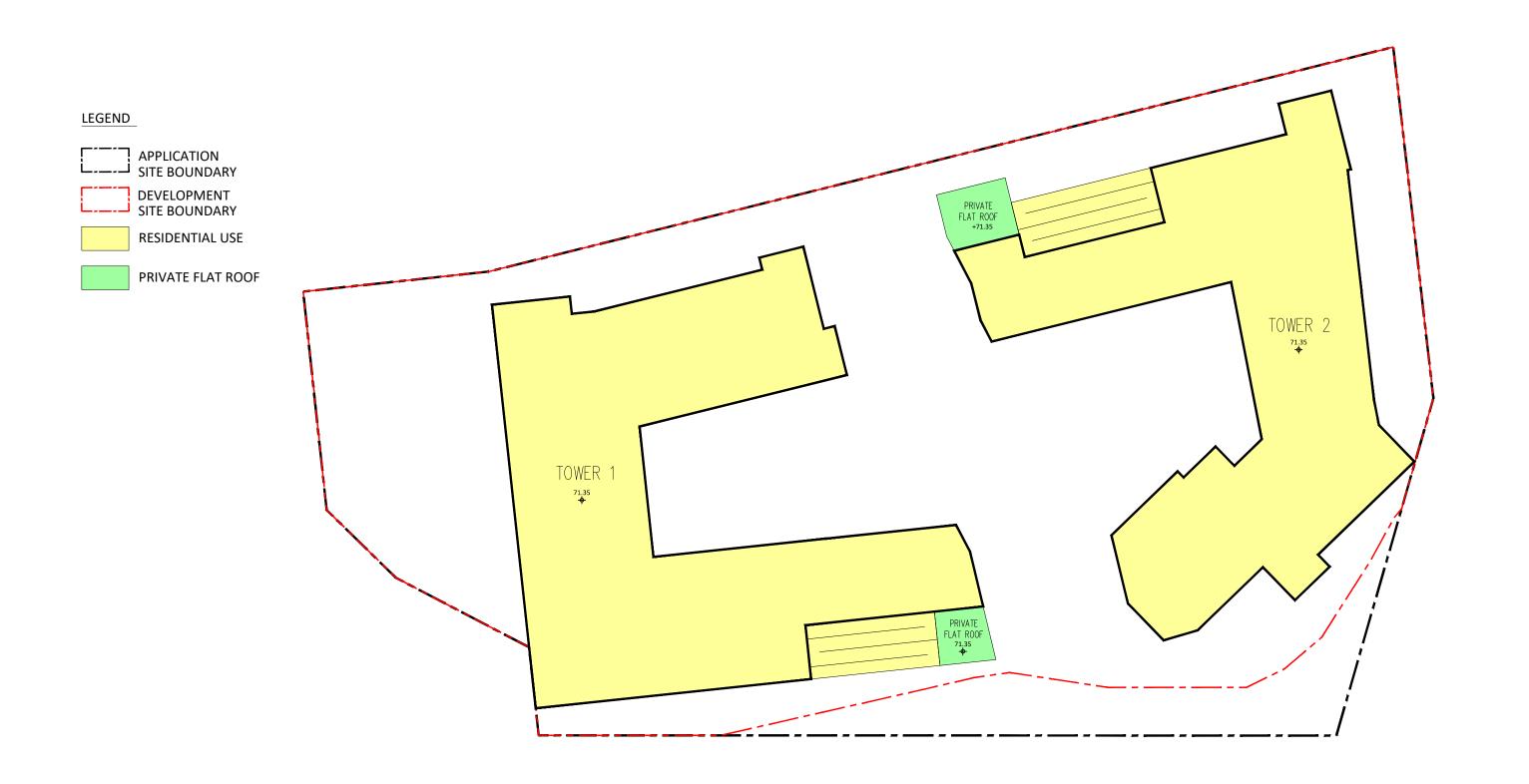


# INDICATIVE TYPICAL FLOOR PLAN

PROPOSED REDEVELOPMENT AT ROYAL VIEW HOTEL AT TING KAU, N.T.







# INDICATIVE T1 13th. & T2 12th. FLOOR PLAN

PROPOSED REDEVELOPMENT AT ROYAL VIEW HOTEL AT TING KAU, N.T.



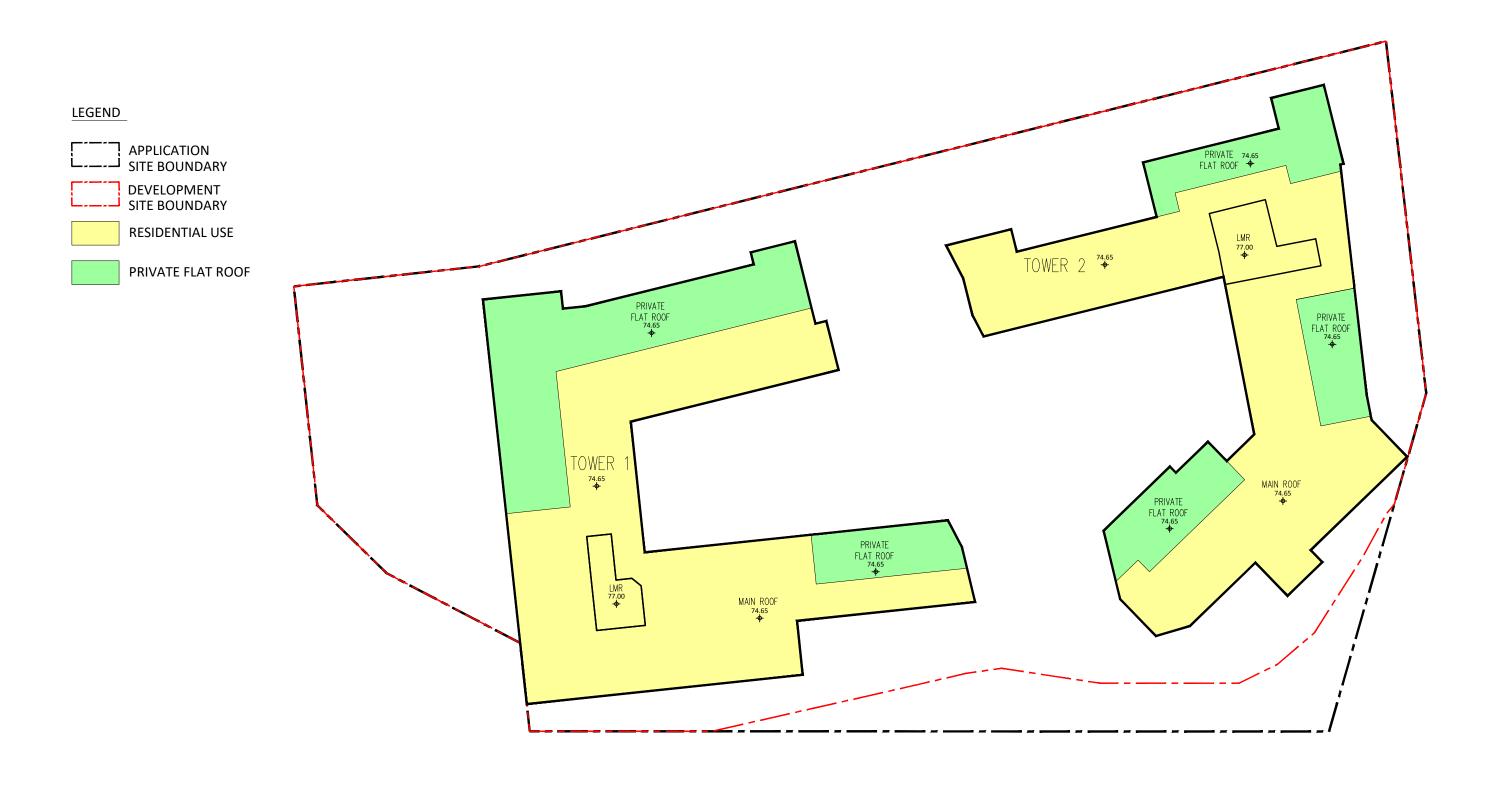


# PROPOSED REDEVELOPMENT AT ROYAL VIEW HOTEL AT TING KAU, N.T.

# INDICATIVE ROOF FLOOR PLAN

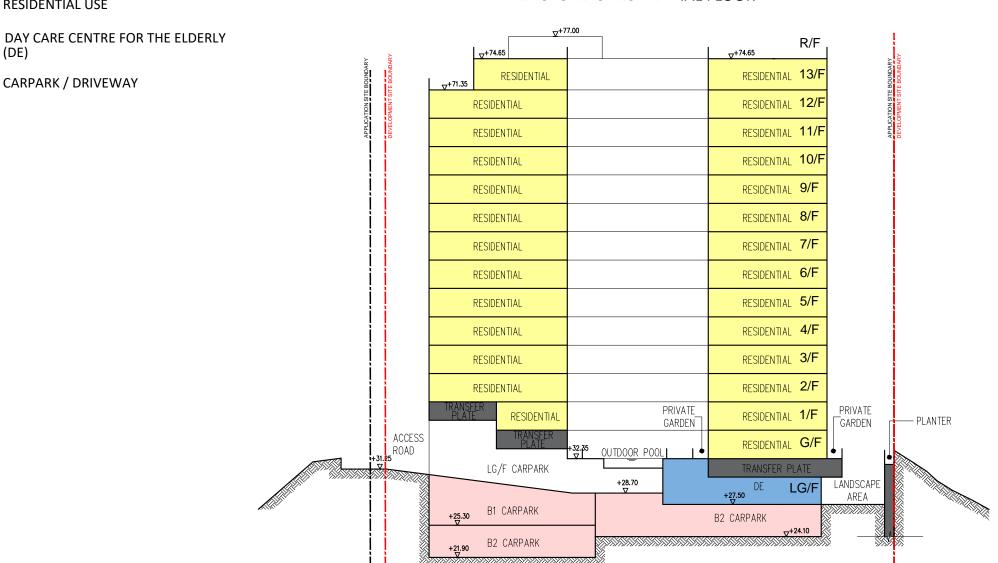
LMR = LIFT MACHINE ROOM

ABBREVIATION:









# TOWER 1 **14 STOREYS RESIDENTIAL FLOOR**

# **INDICATIVE SITE SECTION X-X**

PROPOSED REDEVELOPMENT AT ROYAL VIEW HOTEL AT TING KAU, N.T.

### LEGEND

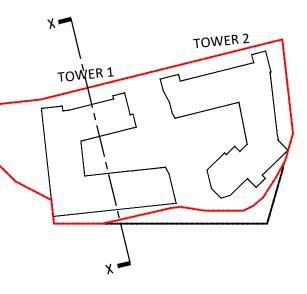
APPLICATION SITE BOUNDARY DEVELOPMENT

SITE BOUNDARY

**RESIDENTIAL USE** 

CARPARK / DRIVEWAY

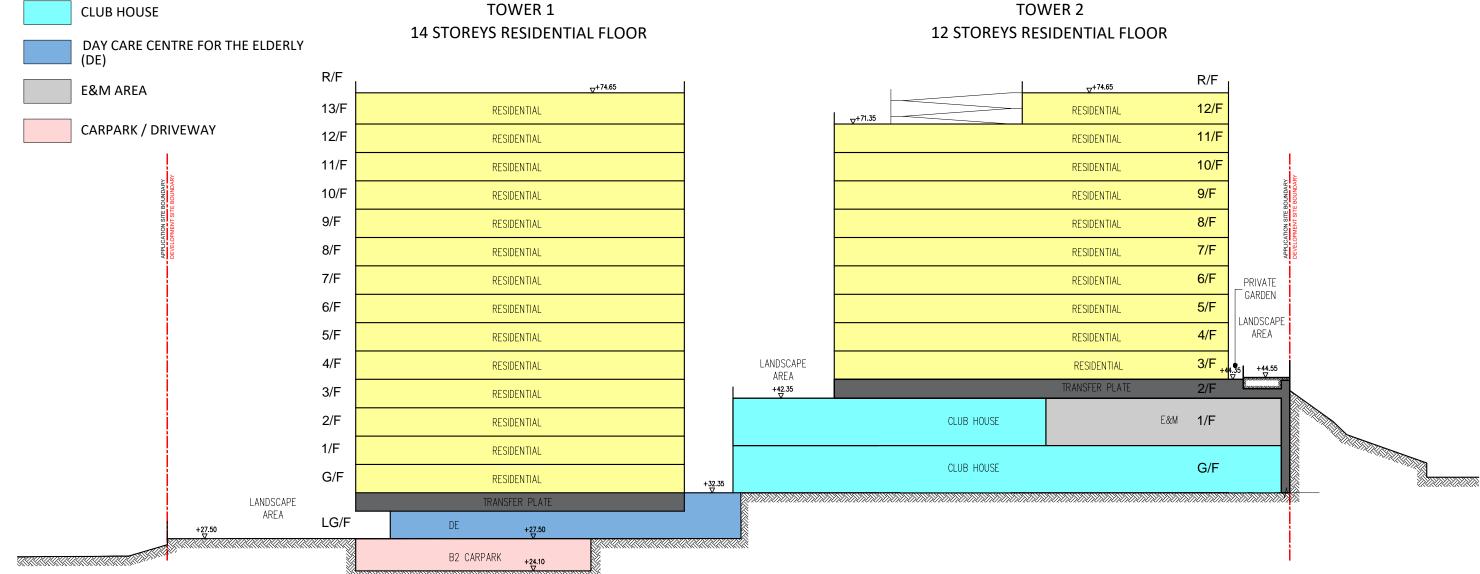
(DE)





# PROPOSED REDEVELOPMENT AT ROYAL VIEW HOTEL AT TING KAU, N.T.

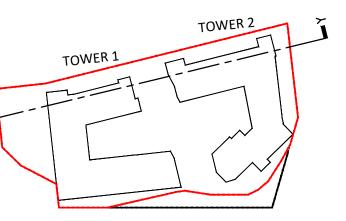
# **INDICATIVE SITE SECTION Y-Y**



LEGEND

APPLICATION SITE BOUNDARY DEVELOPMENT SITE BOUNDARY

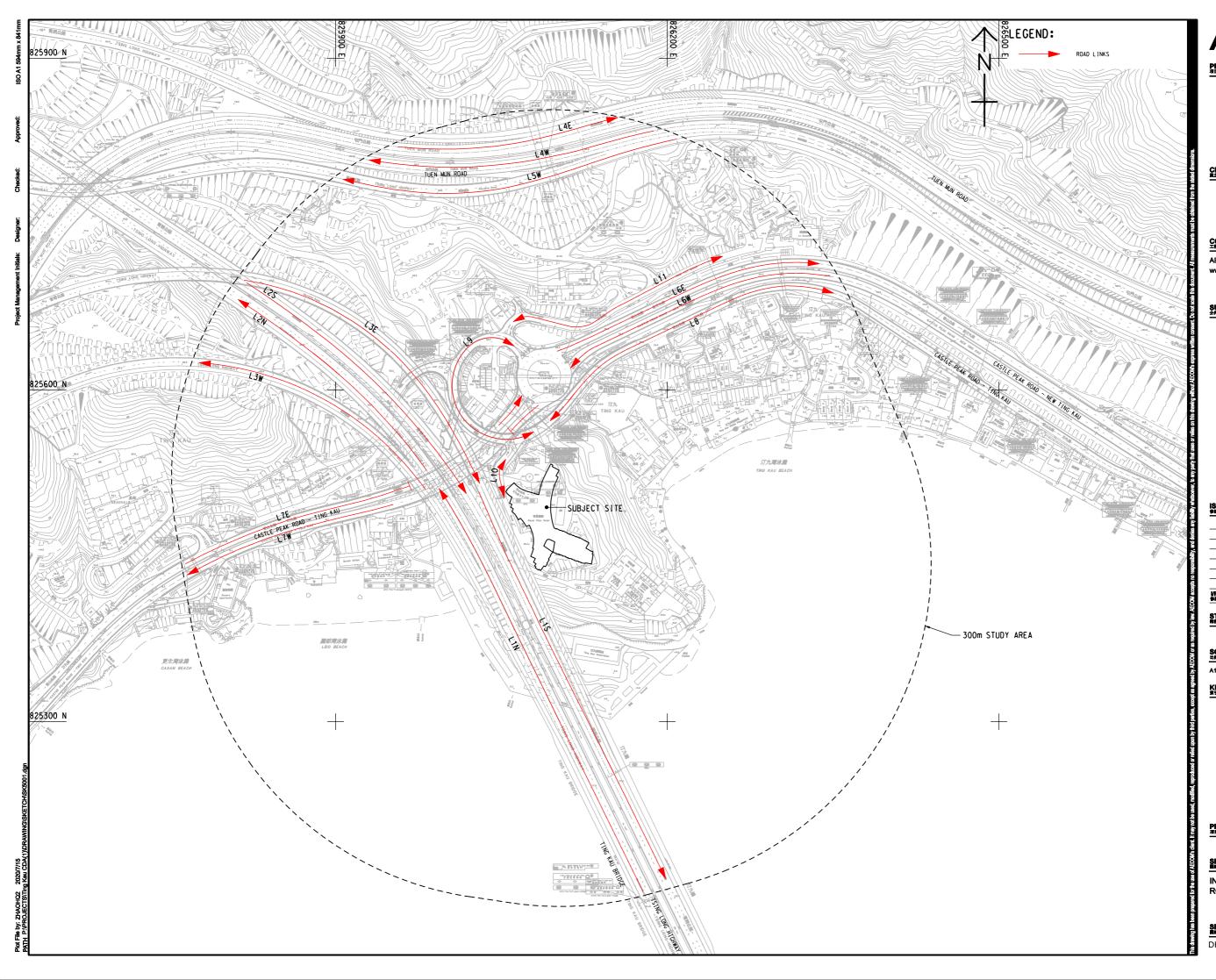
**RESIDENTIAL USE** 





Appendix 2.1 Traffic Forecast of Year 2043







PROJECT म्रा

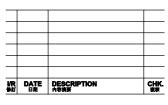
# CLIENT

#### CONSULTANT 工程期间公司

AECOM Asia Company Ltd. www.aecom.com

#### SUB-CONSULTANTS 分列工程編頁公司\_\_\_\_

#### ISSUE/REVISION



### STATUS

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN ★헤르

PROJECT NO.

CONTRACT NO.

### SHEET TITLE

INDEX PLAN FOR ROAD LINKS

### SHEET NUMBER

DRAWING NO. 1

### TING KAU CDA(1) - TRAFFIC FORECAST FOR NOISE IMPACT ASSESSMENT

			Ye	ear 2043 De	esign Scena	rio
Index	Road Link	Direction	Traffic	Flows	н	/%
			AM	PM	AM	PM
L1N	Tsing Long Highway	NB	3050	4915	39%	34%
L1S	Tsing Long Highway	SB	6085	3765	37%	26%
L2N	Tsing Long Highway	NB	890	2020	37%	34%
L2S	Tsing Long Highway	SB	2570	1235	36%	28%
L3E	Slip Road from Tuen Mun Road (West) to Ting Kau Bridge	EB	3515	2530	37%	25%
L3W	Slip Road from Ting Kau Bridge to Tuen Mun Road (West)	WB	2160	2895	39%	33%
L4E	Tuen Mun Road	EB	5445	3330	29%	35%
L4W	Tuen Mun Road	WB	2485	3315	37%	30%
L5W	Slip Road from Tuen Mun Road (East) to Tai Lam Tunnel	WB	1190	1795	39%	40%
L6E	Castle Peak Road - New Ting Kau	EB	647	375	35%	30%
L6W	Castle Peak Road - New Ting Kau	WB	498	530	35%	20%
L7E	Castle Peak Road - New Ting Kau	EB	569	353	39%	31%
L7W	Castle Peak Road - New Ting Kau	WB	559	528	36%	21%
L8	Castle Peak Road - Ting Kau	Two-way	119	125	26%	27%
L9	Castle Peak Road - Ting Kau (Flyover)	Two-way	251	226	20%	18%
L10	Access Road to Subject Site	Two-way	143	104	9%	10%
L11	Ting Yat Road	Two-way	15	26	23%	22%

Appendix 2.2 Road Traffic Noise Impact Assessment Result (Base Case)



										T	1_GF										
Floor	mPD	T1GF01	T1GF02	T1GF03	T1GF04	T1GF05	T1GF06	T1GF07	T1GF08	T1GF09	T1GF10	T1GF11	T1GF12	T1GF13	T1GF14	T1GF15	T1GF16	T1GF17	T1GF18	T1GF19	T1GF20
	32.35	52	68	69	68	68	68	68	68	68	68	67	63	71	72	75	75	75	75	75	75
		0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	Max	52	68	69	68	68	68	68	68	68	68	67	63	71	72	75	75	75	75	75	75
Exc	eedance		. (	C			0			0				1			1			1	
											1_GF										
Floor	mPD	T1GF21	T1GF22	T1GF23	T1GF24	T1GF25	T1GF26	T1GF27	T1GF28	T1GF29	T1GF30	T1GF31	T1GF32	T1GF33	T1GF34	T1GF35	T1GF36				l
	32.35	75	75	75	75	76	76	52	53	53	53	53	54	54	55	56	56				1
		1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0				1
	Max	75	75	75	75	76	76	52	53	53	53	53	54	54	55	56	56				1
Exc	eedance		1			1		(	C	(	)		0			0					
										T	1_1F										
Floor	mPD	T11F01	T11F02	T11F03	T11F04	T11F05	T11F06	T11F07	T11F08	T11F09	T11F10	T11F11	T11F12	T11F13	T11F14	T11F15	T11F16	T11F17	T11F18	T11F19	T11F20
	35.35	53	68	69	68	68	68	68	68	68	68	67	63	71	72	75	75	75	75	75	75
		0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
_	Max	53	68	69	68	68	68	68	68	68	68	67	63	71	72	75	75	75	75	75	75
Exc	eedance		(	)			0			0				1			1			1	
											1_1F		•								
Floor	mPD	T11F21	T11F22	T11F23	T11F24	T11F25	T11F26	T11F27	T11F28	T11F29	T11F30	T11F31	T11F32	T11F33	T11F34	T11F35	T11F36	T11F37	T11F38	T11F39	
	35.35	75	75	75	75	76	76	58	55	52	51	52	52	52	52	51	52	52	51	52	
		1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
-	Max	75	75	75	75	76	76	58	55	52	51	52	52	52	52	51	52	52	51	52	
Exc	eedance		1			1			0		(	0	(	C	(	)	(	)	(	)	1
	80	744545	744541	744542	746642	<b>T</b> 44543	T44545	<b>T</b> 44541	744545		1_1F	744555	744551	744550	744550	T4455 -	744555				
Floor	mPD	T11F40	T11F41	T11F42	T11F43	T11F44	T11F45	T11F46	T11F47	T11F48	T11F49	T11F50	T11F51	T11F52	T11F53		T11F55				
	35.35	52	52	52	52	52	53	53	53	54	54	54	55	55	56	56	57				
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	Max	52	52	52	52	52	53	53	53	54	54	54	55	55	56	56	57				
EXC	eedance		0			0		(	C		)		0			0					1

#### Base Case

Dase										T1	_TYP										
Floor	mPD	T1TYP01	T1TYP02	T1TYP03	T1TYP04	T1TYP05	T1TYP06	T1TYP07	T1TYP08	T1TYP09	T1TYP10	T1TYP11	T1TYP12	T1TYP13	T1TYP14	T1TYP15	T1TYP16	T1TYP17	T1TYP18	T1TYP19	T1TYP20
2	38.35	53	68	69	68	68	68	68	68	68	68	67	63	71	72	75	75	75	75	75	75
3	41.35	54	68	69	68	68	68	68	68	68	68	67	63	71	72	75	75	75	75	75	75
4	44.35	54	68	68	68	68	68	68	68	68	68	67	63	71	72	74	75	74	75	75	75
5	47.35	55	68	68	68	68	68	68	68	68	68	67	63	71	72	74	75	74	75	75	75
6	50.35	56	68	68	68	68	68	68	68	68	68	67	63	71	72	74	74	74	74	75	75
7	53.35	57	68	68	68	68	68	68	68	68	68	67	63	71	72	74	74	74	74	74	75
8	56.35	59	68	68	68	68	68	68	68	68	68	67	63	70	72	74	74	74	74	74	74
9	59.35	60	68	68	68	68	68	68	68	68	68	67	63	70	72	74	74	74	74	74	74
10	62.35	62	68	68	68	68	68	68	68	68	68	67	63	70	72	74	74	74	74	74	74
11	65.35	65	68	68	68	68	68	68	68	68	68	67	64	70	72	74	74	74	74	74	74
12	68.35	67	69	69	68	68	68	68	68	68	68	68	64	71	72	74	74	74	74	74	74
		0	0	0	0	0	0	0	0	0	0	0	0	7	11	11	11	11	11	11	11
	Max	67	69	69	68	68	68	68	68	68	68	68	64	71	72	75	75	75	75	75	75
Excee	dance		(	)			0			0			1	1			11			11	
										τ1	TVD										
Floor	mPD	T1TYP21	T1TYP22	T1TYP23	T1TYP24	T1TYP25	T1TYP26	T1TVD27	T1TYP28	T1TYP29	_TYP T1TYP30	T1TYP31	T1TYP32	T1TYP33	T1TYP34	T1TYP35	T1TYP36	T1TYP37	T1TYP38		
Floor 2	38.35	75	75	75	75	75	76	76	76	76	75	76	75	74	74	73	73	73	72		
2	41.35	75	75	75	75	75	76	76	76	76	75	76	75	74	74	73	73	73	72		
4	41.35	75	75	75	75	75	75	75	76	76	76	76	75	74	74	73	73	73	72		
5	44.35	75	75	75	75	75	75	75	75	76	76	76	74	74	74	73	73	72	72		
6	50.35	75	75	75	75	75	75	75	75	75	76	76	74	74	73	73	73	72	72		
7	53.35	75	75	75	75	75	75	75	75	75	75	75	74	73	73	73	73	72	72		
8	56.35	75	75	75	75	75	75	75	75	75	75	75	74	73	73	73	73	72	72		
9	59.35	74	73	75	75	75	75	75	75	75	75	75	74	73	73	73	72	72	72		
10	62.35	74	74	74	75	75	75	75	75	75	75	75	74	73	73	73	73	72	72		
11	65.35	74	74	74	74	75	75	75	75	75	75	75	74	73	73	73	73	72	72		
12	68.35	74	74	74	75	75	75	75	75	75	75	75	74	74	73	73	73	73	73		
		11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11		
	Max	75	75	75	75	75	76	76	76	76	76	76	75	74	74	73	73	73	73		
Excee	dance		11			11			11			11			11			11			

#### Base Case

	Case									T1	_TYP										
Floor	mPD	T1TYP39	T1TYP40	T1TYP41	T1TYP42	T1TYP43	T1TYP44	T1TYP45	T1TYP46	T1TYP47	T1TYP48	T1TYP49	T1TYP50	T1TYP51	T1TYP52	T1TYP53	T1TYP54	T1TYP55	T1TYP56	T1TYP57	
2	38.35	72	72	72	71	71	71	71	71	70	70	70	59	58	55	52	52	52	52	52	
3	41.35	72	72	72	71	71	71	71	71	71	70	70	60	59	56	52	52	52	52	52	
4	44.35	72	72	72	71	71	71	71	71	71	70	70	60	59	56	53	53	53	53	53	
5	47.35	72	72	72	71	71	71	71	71	71	70	70	60	60	57	53	53	53	53	53	
6	50.35	72	72	72	71	71	71	71	71	71	70	70	61	61	57	54	54	54	54	54	
7	53.35	72	72	72	71	71	71	71	71	71	71	70	62	61	58	55	55	55	55	55	
8	56.35	72	72	72	71	71	71	71	71	71	71	70	63	62	59	56	56	56	56	56	
9	59.35	72	72	72	72	71	71	71	71	71	71	71	64	63	61	57	57	57	57	57	
10	62.35	72	72	72	72	72	71	71	71	71	71	71	65	65	62	58	58	58	58	58	
11	65.35	72	72	72	72	72	72	72	72	71	71	71	66	66	64	60	60	60	60	60	
12	68.35	73	73	72	72	72	72	72	72	72	72	72	68	68	66	63	62	63	62	62	
		11	11	11	11	11	11	11	11	10	6	4	0	0	0	0	0	0	0	0	
	Max	73	73	72	72	72	72	72	72	72	72	72	68	68	66	63	62	63	62	62	
Excee	dance		11		L	11			11			6			0		(	C	(	)	
											_TYP										
Floor	mPD		T1TYP59		-	-			T1TYP65	T1TYP66	-	T1TYP68			T1TYP71	T1TYP72			T1TYP75		
2	38.35	52	52	52	52	52	52	52	52	52	52	53	53	53	53	53	54	54	54		
3	41.35	52	52	52	52	52	52	52	52	53	53	53	53	54	54	54	55	55	55		
4	44.35	53	53	53	53	53	53	53	53	53	53	54	54	54	55	55	55	56	56		
5	47.35	53	53	53	53	53	53	53	53	54	54	54	54	55	56	56	56	57	57		
6	50.35	54	54	54	54	54	54	54	54	54	55	55	55	56	57	57	57	58	58		
	53.35	55	55	55	55	54	54	55	55	55	55	56	56	57	58	58	59	59	59		
8	56.35	56	55	55	55	55	55	55	55	56	57	57	58	59	59	59	60	60	61		
9	59.35	57	57	56	57	56	56	56	57	57	58	59	59	60	61	61	62	62	62		
10	62.35	58	58	58	58	58	58	58	58	59	60	61	61	62	63	63	64	64	64		
11 12	65.35 68.35	60 62	61 64	62 65	63 66	64 67	65 68	65 68	65 68	66 69	66 69	67 69									
12	00.30	-	-	-	-	-	-	-	-												
	Max	0 62	0	0	0 62	0	0	0 62	0 62	0	0	0	0	0	0	0	0 69	0 69	0 69		
	IVIdX	02	62	62	02	62	62	02	02	64	65	66	67	68	68	68	07	07	07		
Evene	dance	(	C	(	)	(	0		)		0			0		(	)	(	)		

Duse									T1	_TYP					
Floor	mPD	T1TYP76	T1TYP77	T1TYP78	T1TYP79	T1TYP80	T1TYP81			_					
2	38.35	55	55	56	56	57	57								
3	41.35	55	56	56	57	57	58								
4	44.35	56	57	57	58	58	59								1
5	47.35	57	58	58	59	59	60								1
6	50.35	58	59	59	60	60	60								1
7	53.35	60	60	60	61	61	61								1
8	56.35	61	61	62	62	62	63								
9	59.35	63	63	63	63	64	64								
10	62.35	64	65	65	65	66	66								
11	65.35	67	67	67	67	68	68								
12	68.35	70	70	70	70	70	70								
		0	0	0	0	0	0								
	Max	70	70	70	70	70	70								
Exceed	dance		0			0									

#### Base Case

										Τ́	_13F										
Floor	mPD	T113F01	T113F02	T113F03	T113F04	T113F05	T113F06	T113F07	T113F08	T113F09	T113F10	T113F11	T113F12	T113F13	T113F14	T113F15	T113F16	T113F17	T113F18	T113F19	T113F20
	71.65	69	70	69	69	69	69	69	69	69	69	69	66	71	72	74	74	74	74	74	75
		0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	Max	69	70	69	69	69	69	69	69	69	69	69	66	71	72	74	74	74	74	74	75
Excee	dance		(	)			0			0							1			1	
										T	_13F										
Floor	mPD	T113F21	T113F22	T113F23	T113F24	T113F25	T113F26	T113F27	T113F28		_131 T113F30	T113F31	T113F32	T113F33	T113F34	T113F35	T113F36	T113F37	T113F38		
	71.65	75	75	75	75	75	75	75	75	75	75	75	74	74	74	74	74	73	73		
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	Max	75	75	75	75	75	75	75	75	75	75	75	74	74	74	74	74	73	73		
Excee	dance		1			1			1			1			1			1			
											4.05										
Floor		<b>T</b> ( ) <b>C C C</b>		<b>T</b> 4 4 5 5 4 4							_13F								<b>T</b> 4 6 <b>F F</b> 4		
1001	mPD	T113F39	T113F40	T113F41	T113F42	T113F43	T113F44	T113F45	T113F46	T113F47	T113F48		T113F50			T113F53					
11001	mPD 71.65	73	T113F40 73	T113F41 73	T113F42 71	70	68	67	67	T113F47 66	T113F48 67	67	67	67	67	67	67	67	67		
	71.65	73 1	73 1	73	71	70 0	68 0	67 0	67 0	T113F47 66 0	T113F48 67 0	67 0	67 0	67 0	67 0	67 0	67 0	67 0	67 0		
	71.65 Max	73				70	68	67 0 67	67 0 67	T113F47 66 0 66	T113F48 67 0 67	67 0 67	67 0 67	67 0 67	67 0 67	67 0 67	67 0 67	67 0 67	67 0 67		
	71.65	73 1	73 1	73	71	70 0	68 0	67 0 67	67 0	T113F47 66 0 66	T113F48 67 0	67 0 67	67 0	67 0	67 0 67	67 0	67 0 67	67 0 67	67 0		
	71.65 Max	73 1	73 1	73	71	70 0	68 0	67 0 67	67 0 67	T113F47 66 0 66	T113F48 67 0 67 0	67 0 67	67 0 67	67 0 67	67 0 67	67 0 67	67 0 67	67 0 67	67 0 67		
	71.65 Max	73 1 73	73 1	73 1 73	71	70 0 70 1	68 0	67 0 67	67 0 67	T113F47 66 0 66	T113F48 67 0 67	67 0 67 (	67 0 67	67 0 67	67 0 67	67 0 67	67 0 67	67 0 67	67 0 67		
Excee	71.65 Max dance	73 1 73	73 1 73 1	73 1 73	71 1 71	70 0 70 1	68 0 68	67 0 67 (	67 0 67 0	T113F47 66 0 66 T	T113F48 67 0 67 0 - 13F	67 0 67 (	67 0 67	67 0 67	67 0 67	67 0 67	67 0 67	67 0 67	67 0 67		
Excee	71.65 Max dance mPD	73 1 73 T113F57	73 1 73 1 T113F58	73 1 73 73 T113F59	71 1 71 T113F60	70 0 70 1 T113F61	68 0 68 T113F62	67 0 67 ( T113F63	67 0 67 0 T113F64	T113F47 66 0 66 T <sup>7</sup> T113F65	T113F48 67 0 67 ) 13F T113F66	67 0 67 ( T113F67	67 0 67 ) T113F68	67 0 67 () T113F69	67 0 67 ) T113F70	67 0 67 ( T113F71	67 0 67 ) T113F72	67 0 67	67 0 67		
Excee	71.65 Max dance mPD	73 1 73 T113F57 69	73 1 73 1 T113F58 70	73 1 73 73 T113F59	71 1 71 T113F60	70 0 70 1 T113F61	68 0 68 T113F62	67 0 67 ( T113F63	67 0 67 0 T113F64	T113F47 66 0 66 T <sup>7</sup> T113F65	T113F48 67 0 67 ) 13F T113F66	67 0 67 ( T113F67	67 0 67 ) T113F68	67 0 67 () T113F69	67 0 67 ) T113F70	67 0 67 ( T113F71	67 0 67 ) T113F72	67 0 67	67 0 67		

No. of Units:	377
No. of Units with Exceedance:	165
Compliance Level:	56%
Max. Noise Level:	76

Noted:

Noise level exceed stardand of 70 dB(A)

										T2_1F										
Floor mPD	T21F01	T21F02	T21F03	T21F04	T21F05	T21F06	T21F07	T21F08	T21F09	T21F10	T21F11	T21F12	T21F13	T21F14	T21F15	T21F16	T21F17	T21F18	T21F19	T21F20
38.35	61	61	61	61	60	60	60	52	53	54	56	58	58	59	59	61	61	62	63	63
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	61	61	61	61	60	60	60	52	53	54	56	58	58	59	59	61	61	62	63	63
Exceedance		(	0			0		(	D		0			0		0		0		0
										T2_1F										
Floor mPD	T21F21	T21F22	T21F23	T21F24	T21F25	T21F26														
38.35	62	62	61	60	59	58														
	0	0	0	0	0	0														
Max	62	62	61	60	59	58														
Exceedance		0			0															
	T2_2F																			
	-												-		-			-	-	
Floor mPD	T22F01	T22F02	T22F03	T22F04	T22F05	T22F06	T22F07	T22F08	T22F09	T22F10	T22F11	T22F12	T22F13	T22F14	T22F15	T22F16	T22F17			
41.35	63	63	62	62	62	62	61	61	61	60	60	59	65	65	65	64	64			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Max	63	63	62	62	62	62	61	61	61	60	60	59	65	65	65	64	64			
Exceedance			)				0			0			0			0				
										T0 05										
										T2_2F										
Floor mPD	T22F18	T22F19	T22F20	T22F21	T22F22	T22F23	T22F24	T22F25	T22F26	T22F27	T22F28	T22F29	T22F30	T22F31	T22F32	T22F33	T22F34	T22F35	T22F36	
41.35	60	65	65	64	64	64	66	66	68	68	67	66	61	59	57	54	53	52	52	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Max	60	65	65	64	64	64	66	66	68	68	67	66	61	59	57	54	53	52	52	
Exceedance		(	J			0			0			0			0		0		0	
1										TO OF										ı
Floor mPD	T22F37	T22F38	T22F39	T22F40	T22F41	T22F42	T22F43	T22F44	T22F45	T2_2F T22F46	T22F47	T22F48	T22F49	T22F50	T22F51	T22F52	T22F53	T22F54	T22F55	
	-																			<u> </u>
41.35	52 0	53	55	56	58	59	59	60	61	61	63	63	63	63	62	61	61 0	60	60 0	─────
Max	0 52	0 53	55	0 56	0 58	0 59	0 59	0 60	0 61	0 61	0 63	0 63	0 63	0 63	0 62	0 61	0 61	0 60	60	────
Exceedance	52		23		20		0 29		0	01			0	03	0	01	01	0	00	
LACEGUAILLE		U		U			U	l	J		J	l l	U		0			0		

	ase										T2_TYP										
oor	mPD	T2TYP01	T2TYP02	T2TYP03	T2TYP04	T2TYP05	T2TYP06	T2TYP07	T2TYP08	T2TYP09	T2TYP10	T2TYP11	T2TYP12	T2TYP13	T2TYP14	T2TYP15	T2TYP16	T2TYP17			
3	44.35	66	67	67	66	62	64	64	64	64	64	64	64	63	63	63	63	63			
4	47.35	66	67	67	66	62	64	65	65	65	65	65	64	64	64	64	64	64			
5	50.35	66	67	67	66	62	64	65	65	65	65	65	65	65	64	64	64	64			
6	53.35	66	67	67	66	62	64	65	65	65	65	65	65	65	65	65	64	64			
7	56.35	67	67	67	66	62	64	65	65	65	65	65	65	65	65	65	64	64			
8	59.35	67	67	67	66	62	64	65	65	65	65	65	65	65	65	65	65	64			
9	62.35 65.35	68 69	67 67	67 67	66 66	63 63	64 65	65 65	65 65	65 65	65 65	65 65	65 65	65 65	65 65	65 65	65 65	65 65			
10	68.35	69	68	67	66	64	65	65	65	65	65	65	65	65	65	65	65	65		-	
	00.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
1	Лах	69	68	67	66	64	65	65	65	65	65	65	65	65	65	65	65	65			
	edance	0,		0	00	04	0	05	05	0	05	05			0	05	0	05			
				0			0			0			5		0		0				
											T2_TYP										
loor	mPD	T2TYP18	T2TYP19	T2TYP20	T2TYP21	T2TYP22	T2TYP23	T2TYP24	T2TYP25	T2TYP26	T2TYP27	T2TYP28	T2TYP29	T2TYP30	T2TYP31	T2TYP32	T2TYP33	T2TYP34	T2TYP35		
3	44.35	63	64	64	64	63	63	63	63	63	62	62	62	62	61	61	60	66	66		
4	47.35	64	65	64	64	64	64	64	64	63	63	63	63	62	62	61	61	66	66		
5	50.35	64	66	65	65	65	65	65	64	64	64	64	63	63	62	62	61	67	67		
6	53.35	64	66	66	66	66	66	65	65	65	65	65	64	64	63	63	62	67	67		
7	56.35	64	67	67	67	67	67	66	66	66	66	65	65	65	64	64	63	68	67		
8	59.35	64	68	68	68	68	68	67	67	67	67	67	66	66	65	65	64	68	68		
9	62.35	65	70	69	69	69	69	69	69	68	68	68	68	67	67	66	66	69	69		
10	65.35	65 65	71	71 72	71 72	71	71 72	70	70 72	70 72	70 72	69 72	69 71	69 71	68	68	67 69	71 72	70		
11	68.35		2	2	2		2	12	12	12	1	12	1	/1	70	70	0	2	1		
	Лах	0 65	72	72	72	2 72	72	72	72	72	72	72	71	71	0 70	0 70	69	72	72		
	edance	00		2 12	12	12		2	12	12	12	12	/1	/1	1	70	09	2	12		
LACC	cuance			2				2				1						2			
											T2_TYP										
loor	mPD	T2TYP36	T2TYP37	T2TYP38	T2TYP39	T2TYP40	T2TYP41	T2TYP42	T2TYP43	T2TYP44	T2TYP45	T2TYP46	T2TYP47	T2TYP48	T2TYP49	T2TYP50	T2TYP51	T2TYP52	T2TYP53	T2TYP54	T2TYP55
3	44.35	66	65	65	61	67	68	67	67	67	68	67	69	69	67	66	61	60	58		54
4	47.35	66	66																	55	
5				65	61	67	68	67	67	67	68	68	69	69	68	67	62	61	59	56	54
	50.35	67	66	66	62	67	68	67	67	68	68	68	69 69	69 69	68 68	67 67	62 62	61 61	59 59	56 57	54 55
6	53.35	67 67	66 67	66 66	62 63	67 68	68 68	67 67	67 67	68 68	68 68	68 68	69 69 69	69 69 69	68 68 68	67 67 67	62 62 62	61 61 61	59 59 60	56 57 58	54 55 56
6 7	53.35 56.35	67 67 67	66 67 67	66 66 67	62 63 64	67 68 68	68 68 69	67 67 68	67 67 68	68 68 68	68 68 69	68 68 68	69 69 69 69	69 69 69 69	68 68 68 68	67 67 67 67	62 62 62 63	61 61 61 62	59 59 60 60	56 57 58 58	54 55 56 57
6 7 8	53.35 56.35 59.35	67 67 67 68	66 67 67 68	66 66 67 67	62 63 64 64	67 68 68 68	68 68 69 69	67 67 68 68	67 67 68 68	68 68 68 68	68 68 69 69	68 68 68 69	69 69 69 69 70	69 69 69 69 69	68 68 68 68 68 68	67 67 67 67 67	62 62 63 63	61 61 62 62	59 59 60 60 61	56 57 58 58 58 59	54 55 56 57 58
6 7 8 9	53.35 56.35 59.35 62.35	67 67 67 68 69	66 67 67 68 68	66 66 67 67 68	62 63 64 64 66	67 68 68 68 69	68 68 69 69 69	67 67 68 68 68 69	67 67 68 68 68 69	68 68 68 68 69	68 68 69 69 69	68 68 68 69 69	69 69 69 70 70 70	69 69 69 69 69 70	68 68 68 68 68 68 68 69	67 67 67 67 67 67 68	62 62 63 63 64	61 61 62 62 63	59 59 60 60 61 62	56 57 58 58 59 60	54 55 56 57 58 60
6 7 8 9 10	53.35 56.35 59.35 62.35 65.35	67 67 68 69 70	66 67 67 68 68 70	66 66 67 67 68 68 69	62 63 64 64 66 67	67 68 68 68 69 70	68 68 69 69 69 70	67 67 68 68 69 69	67 67 68 68 69 69	68 68 68 68 69 70	68 68 69 69 69 70	68 68 69 69 70	69 69 69 70 70 70 71	69 69 69 69 69 70 70	68 68 68 68 68 69 69	67 67 67 67 67 68 69	62 62 63 63 64 65	61 61 62 62 63 64	59 59 60 60 61 62 63	56 57 58 58 59 60 62	54 55 56 57 58 60 62
6 7 8 9	53.35 56.35 59.35 62.35	67 67 68 69 70 72	66 67 67 68 68 70 71	66 66 67 67 68 69 71	62 63 64 64 66 67 69	67 68 68 68 69 70 71	68 68 69 69 69 70 71	67 67 68 68 69 69 71	67 67 68 68 69 69 71	68 68 68 69 70 71	68 69 69 69 70 71	68 68 69 69 70 71	69 69 69 70 70 71 71 71	69 69 69 69 69 70 70 70 71	68 68 68 68 69 69 70	67 67 67 67 67 68 68 69 70	62 62 63 63 64 65 66	61 61 62 62 63 64 66	59 59 60 60 61 62 63 65	56 57 58 58 59 60 62 64	54 55 56 57 58 60 62 64
6 7 8 9 10 11	53.35 56.35 59.35 62.35 65.35 68.35	67 67 68 69 70 72 1	66 67 67 68 68 70 71 1	66 66 67 67 68 69 71 1	62 63 64 64 66 67 69 0	67 68 68 68 69 70 71 1	68 69 69 69 70 71 1	67 67 68 68 69 69 71 1	67 67 68 68 69 69 71 1	68 68 68 69 70 71 1	68 69 69 69 70 71 1	68 68 69 69 70 71 1	69 69 69 70 70 71 71 71 2	69 69 69 69 70 70 70 71 1	68 68 68 68 69 69 69 70 0	67 67 67 67 67 68 69 70 0	62 62 63 63 64 65 66 0	61 61 62 62 63 64 66 0	59 59 60 61 62 63 65 0	56           57           58           58           59           60           62           64           0	54 55 56 57 58 60 62 64 0
6 7 8 9 10 11	53.35 56.35 59.35 62.35 65.35	67 67 68 69 70 72	66 67 67 68 68 70 71	66 66 67 67 68 69 71	62 63 64 64 66 67 69	67 68 68 68 69 70 71	68 69 69 69 70 71 1 71	67 67 68 68 69 69 71	67 67 68 68 69 69 71	68 68 68 69 70 71	68 69 69 69 70 71	68 68 69 69 70 71	69 69 69 70 70 71 71 71	69 69 69 69 69 70 70 70 71	68 68 68 68 69 69 70	67 67 67 67 67 68 68 69 70	62 62 63 63 64 65 66	61 61 62 62 63 64 66 0 66	59 59 60 60 61 62 63 65	56 57 58 59 60 62 64 0 64	54 55 56 57 58 60 62 64
6 7 8 9 10 11	53.35 56.35 59.35 62.35 65.35 68.35 Max	67 67 68 69 70 72 1	66 67 68 68 70 71 1 71	66 66 67 67 68 69 71 1	62 63 64 64 66 67 69 0	67 68 68 69 70 71 1 71	68 69 69 69 70 71 1 71	67 67 68 68 69 69 71 1	67 67 68 68 69 69 71 1	68 68 68 69 70 71 1 71	68 69 69 69 70 71 1	68 68 69 69 70 71 1	69 69 69 70 70 71 71 2 71	69 69 69 69 70 70 70 71 1	68 68 68 68 69 69 69 70 0	67 67 67 67 67 68 69 70 0 70	62 62 63 63 64 65 66 0	61 61 62 62 63 64 66 0 66	59 59 60 61 62 63 65 0 65	56 57 58 59 60 62 64 0 64	54 55 56 57 58 60 62 64 64 0 64
6 7 8 9 10 11 11 Excee	53.35 56.35 59.35 62.35 65.35 68.35 Max edance	67 67 68 69 70 72 1 72	66 67 68 68 70 71 1 71 1 71	66 66 67 67 68 69 71 1 71	62 63 64 66 66 67 69 0 69	67 68 68 69 70 71 1 71	68 68 69 69 70 71 1 71 71	67 67 68 68 69 69 71 1 71	67 67 68 68 69 69 71 1 71	68 68 68 69 70 71 1 71 1 71	68 69 69 70 71 1 71 71 71	68 68 69 69 70 71 1 71 71	69 69 69 70 70 71 71 2 71 2	69 69 69 69 70 70 71 1 71	68 68 68 68 69 69 70 0 70 70	67 67 67 67 67 68 68 69 70 0 70 0 70 0	62 62 63 63 64 65 66 0 66	61 61 62 62 63 64 66 0 66	59 59 60 61 62 63 65 0 65 0	56 57 58 58 59 60 62 64 64 0 64	54 55 56 57 58 60 62 64 0 64 0
6 7 8 9 10 11 11 Excee	53.35 56.35 59.35 62.35 65.35 68.35 Max edance	67 67 68 69 70 72 1	66 67 68 68 70 71 1 71 1 71 1 71 1 71 71	66 66 67 68 69 71 1 71 71 71	62 63 64 66 67 69 0 69 72TYP59	67 68 68 69 70 71 1 71 71 71 71 71	68 69 69 70 71 1 71 71 71	67 67 68 69 69 71 1 71 71 71	67 67 68 68 69 69 71 1	68 68 68 69 70 71 1 71 1 71 1 71 1 71	68 69 69 70 71 1 71 71 71 71 71 71 71	68 68 69 69 70 71 1 71	69 69 69 70 70 71 71 2 71	69 69 69 69 70 70 71 1 71 71 71	68 68 68 68 69 69 69 70 0	67 67 67 67 67 68 69 70 0 70	62 62 63 63 64 65 66 0 66 72TYP71	61 61 62 62 63 64 66 0 66 T2TYP72	59 59 60 61 62 63 65 0 65 0 72TYP73	56 57 58 59 60 62 64 0 64	54 55 56 57 58 60 62 64 64 0 64
6 7 8 9 10 11 11 Excee 3	53.35 56.35 59.35 62.35 65.35 68.35 Max edance mPD 44.35	67 67 68 69 70 72 1 72 72 1 72 53	66 67 68 68 70 71 1 71 1 71 1 71 53	66 66 67 67 68 69 71 1 71 71 71 71 71 53	62 63 64 64 66 67 69 0 69 72TYP59 54	67 68 68 69 70 71 1 71 71 71 71 71 71 71 55	68 69 69 70 71 1 71 71 71 71 71 71 71 71 71	67 67 68 68 69 71 1 71 71 71 71 71 71	67 67 68 69 69 71 1 71 71 71 71 71 59	68 68 68 69 70 71 1 71 1 71 1 71 21YP64 60	68 69 69 70 71 1 71 71 71 71 71 71 71 71 71 71 60	68 68 69 69 70 71 1 71 71 71 71 71 71 71 71 71	69 69 69 70 70 71 71 2 71 2 71 2 71 2 2 71 2 2	69 69 69 69 70 70 71 1 71 71 71 71 71 71 63	68 68 68 69 69 70 0 70 70 70 70 70 70	67 67 67 67 67 68 69 70 0 70 0 70 0 70 0 70 0 70 0 70 0 83	62 62 63 63 64 65 66 0 66 72TYP71 63	61 61 62 62 63 64 66 0 66 72TYP72 63	59 59 60 61 62 63 65 0 65 0 72TYP73 62	56 57 58 59 60 62 64 0 64 0 64 72TYP74 61	54 55 56 57 58 60 62 64 0 64 0 72TYP75 61
6 7 8 9 10 11 11 Excee 5 10 0 7 8 9 10 11 11 5 7 6 7 8 9 10 11 11 5 7 6 7 8 9 10 11 11 5 7 6 7 8 7 8 9 10 11 11 11 11 11 11 11 11 11 11 11 11	53.35           56.35           59.35           62.35           65.35           68.35           Max           edance           MPD           44.35           47.35	67 67 68 69 70 72 1 72 72 1 72 53 53	66 67 68 68 70 71 1 71 1 1 71 1 71 53 53	66 66 67 68 69 71 1 71 71 71 71 71 71 71 53 53	62 63 64 64 66 67 69 0 69 0 69 72TYP59 54 54	67 68 68 69 70 71 1 71 71 71 71 71 71 71 71 55 56	68 69 69 70 71 1 71 71 71 71 71 71 71 71 71 71 71 7	67 67 68 68 69 69 71 1 71 71 71 71 71 71 71 71 758 58 59	67 67 68 69 69 71 1 71 71 71 71 71 71 71 59 59	68 68 68 69 70 71 1 71 1 1 1 1 1 1 22TYP64 60 60	68 69 69 70 71 1 71 71 71 71 71 71 71 71 71 71 71 7	68 68 69 69 70 71 1 71 71 71 71 71 71 71 71 61 62	69 69 69 70 70 71 71 2 71 2 71 2 71 2 71 62 62 62	69 69 69 69 70 70 71 1 71 71 71 71 71 71 63 63 63	68 68 68 69 69 70 0 70 70 70 70 70 70 63 63	67 67 67 67 67 68 69 70 0 70 0 70 0 70 0 70 0 70 63 64	62 62 63 63 64 65 66 0 66 72TYP71 63 63	61 61 62 62 63 64 66 0 66 72TYP72 63 63	59 59 60 60 61 62 63 65 0 0 72TYP73 62 62	56 57 58 59 60 62 64 0 64 64 72TYP74 61 62	54 55 56 57 58 60 62 64 0 0 72TYP75 61 61
6 7 8 9 10 11 11 Excee 3 4 5	53.35 56.35 59.35 62.35 68.35 68.35 Max edance edance 44.35 47.35 50.35	67 67 68 69 70 72 1 72 72 72 72 72 53 53 53	66 67 67 68 68 70 71 1 71 1 71 1 71 53 53 53 54	66 66 67 67 68 69 71 1 71 71 71 71 71 71 71 71 53 53 53	62 63 64 64 66 67 69 0 69 0 59 54 54 55	67 68 68 69 70 71 1 71 71 71 71 71 71 71 71 55 55 56 57	68 69 69 70 71 1 71 71 71 71 71 71 71 71 57 57 58	67 67 68 68 69 69 71 1 71 71 71 71 71 71 71 72TYP62 58 59 59	67 67 68 69 69 71 1 71 71 71 71 71 71 71 71 71 71 71 7	68 68 68 69 70 71 1 71 1 71 1 71 0 71 60 60 60 61	68 69 69 70 71 1 71 71 71 71 71 71 71 71 71 71 71 60 60 60 61	68 68 69 69 70 71 1 71 71 71 71 71 71 71 71 6 71 71 6 6 62 62	69 69 69 70 71 71 71 2 71 2 71 2 71 2 71 2 71 2	69 69 69 70 70 71 1 71 71 71 71 71 71 71 71	68 68 68 69 69 70 0 70 70 70 70 70 70 70 63 63 63	67 67 67 67 68 69 70 0 70 0 70 0 70 0 70 0 70 63 64 64	62 62 63 63 64 65 66 66 66 72TYP71 63 63 64	61 61 62 63 64 66 0 66 66 T2TYP72 63 63 63	59 59 60 61 62 63 65 0 50 72TYP73 62 62 63	56 57 58 59 60 62 64 0 64 0 64 0 12TYP74 61 62 63	54 55 56 57 58 60 62 64 0 721YP75 61 61 62
6 7 8 9 10 11 11 Excee 3 4 5	53.35 56.35 59.35 62.35 65.35 68.35 Max edance MPD 44.35 50.35 53.35	67 67 68 69 70 72 1 72 72 72 72 72 72 72 72 72 72 72 72 72	66 67 68 68 70 71 1 1 71 1 1 71 1 1 71 53 53 53 54 55	66 66 67 67 68 69 71 1 71 71 71 71 71 71 71 53 53 53 54 54	62 63 64 66 67 69 0 69 72TYP59 54 54 55 56	67 68 68 69 70 71 1 71 71 71 71 71 71 71 71 71 75 55 56 57	68 69 69 70 71 1 71 71 71 71 71 71 71 71 71 57 57 58 59	67 67 68 69 69 71 1 71 71 71 71 71 71 71 71 75 9 59 60	67 67 68 69 69 71 1 71 71 71 71 71 71 71 71 71 71 71 7	68 68 68 69 70 71 1 1 71 1 71 1 71 1 71 1 71 1 71	68 69 69 70 71 1 71 71 71 71 71 71 71 71 71 71 71 7	68 68 69 70 71 1 71 71 71 71 71 71 71 71 71 71 71 7	69 69 69 70 70 71 71 2 71 2 71 2 71 2 71 2 71 62 62 62 62 63	69 69 69 69 69 70 70 71 1 1 71 71 71 71 71 71 71 63 63 64 64	68 68 68 69 69 70 0 70 70 70 70 70 70 70 70 70 70 70 7	67 67 67 67 67 68 69 70 0 70 0 70 0 70 0 70 0 70 63 64 64 65	62 62 63 63 64 65 66 0 66 72TYP71 63 63 64 64	61 61 62 62 63 64 66 0 66 12TYP72 63 63 63 63 64	59 59 60 61 62 63 65 0 50 72TYP73 62 62 63 64	56 57 58 59 60 62 64 0 64 0 64 12TYP74 61 62 63 63	54 55 56 57 58 60 62 64 0 64 0 72TYP75 61 61 61 62 63
6 7 8 9 10 11 11 Excee 5 6 7	53.35           56.35           59.35           62.35           65.35           68.35   Max edance           mPD           44.35           47.35           53.35           56.35	67 67 68 69 70 72 1 72 72 72 72 72 53 53 53 53 53 54 55	66 67 67 68 68 68 68 70 71 1 1 71 1 71 71 71 71 71 71 71 71 71	66 66 67 67 68 69 71 1 71 71 71 71 71 71 71 71 53 53 53 53 53 53 54 54 56	62 63 64 64 66 67 69 0 69 0 69 54 54 54 55 55 56 57	67 68 68 69 70 71 1 71 71 71 71 71 71 71 71 71 71 55 55 56 57 57 57 58	68 68 69 69 70 71 1 1 71 71 71 71 71 71 71 71 75 57 57 57 58 59 59	67 67 68 68 69 69 71 1 1 71 71 71 71 71 71 71 71 71 71 71	67 67 68 69 69 71 1 71 71 71 71 71 71 71 59 59 60 61 61	68 68 68 69 70 71 1 71 1 71 1 71 1 71 1 71 1 71 60 60 60 61 61 62	68 69 69 70 71 1 71 71 71 71 71 72_TYP65 60 60 60 61 61 62	68 68 69 70 71 1 71 71 71 71 71 71 71 71 71 62 61 62 62 63 63	69 69 69 70 70 71 71 2 71 2 71 2 71 2 71 2 62 62 62 62 63 64	69 69 69 69 70 70 71 1 71 71 71 71 71 71 71 63 63 63 63 64 64 65	68 68 68 69 69 70 0 70 70 70 70 70 70 70 70 63 63 63 63 64 64 65	67 67 67 67 68 69 70 0 70 0 70 0 70 0 70 0 70 0 70 63 64 64 65 65	62 62 63 64 65 66 0 66 72TYP71 63 63 63 64 65	61 61 62 63 64 66 0 66 66 72TYP72 63 63 63 63 64 65	59 59 60 61 62 63 65 0 65 0 12TYP73 62 62 63 64 64	56 57 58 58 60 62 64 0 64 64 12TYP74 61 62 63 63 63 64	54 55 56 60 62 64 0 12TYP75 61 61 62 63 64
6 7 8 9 10 11 11 Excee 5 6 7 8	53.35           56.35           59.36           62.35           68.35           Max           edance           Max           44.35           47.35           50.35           53.35           53.35	67 67 68 69 70 72 1 72 72 72 72 72 72 72 72 72 72 72 72 72	66 67 67 68 68 70 71 1 1 71 1 1 71 1 71 1 71 71 71 53 53 53 53 53 55 55 55	66 66 67 67 68 69 71 1 1 71 71 71 71 71 71 71 71 71 71 71	62 63 64 64 67 69 0 69 69 54 54 55 55 55 55 57 59	67 68 68 69 70 71 1 1 71 71 71 71 71 71 71 55 55 55 55 57 57 57 58 60	68 68 69 69 70 71 1 1 71 71 71 71 71 71 71 71 71 71 75 7 57 57 57 58 59 59 61	67 67 68 68 69 69 71 1 71 71 71 71 71 71 71 71 71 71 71 7	67 67 68 69 69 71 1 71 71 71 71 71 71 71 71 69 59 59 60 61 61 62	68 68 68 69 70 71 1 71 1 71 1 71 1 71 1 71 60 60 61 61 61 62 63	68 69 69 70 71 1 71 71 71 71 71 71 71 71 71 71 71 7	68 68 69 69 70 71 1 71 71 71 71 71 71 71 71 71 71 71 7	69 69 69 70 70 71 71 2 71 2 71 2 71 2 71 2 62 62 62 62 62 63 64 65	69 69 69 69 70 70 71 1 71 71 71 71 71 71 71 63 63 63 63 64 64 65 65	68 68 68 69 69 70 0 70 70 70 70 70 70 63 63 63 64 64 65 66	67 67 67 67 67 68 69 70 0 70 0 70 0 70 0 70 0 70 64 63 64 65 65 66	62 62 63 63 64 65 66 0 66 72TYP71 63 63 64 64 65 66	61 61 62 63 64 66 0 66 66 72TYP72 63 63 63 63 63 64 65 66	59 59 60 61 62 63 65 0 55 0 72TYP73 62 62 62 63 64 64 65	56 57 58 59 60 62 64 0 64 64 64 61 62 63 63 63 64 65	54 55 56 57 58 60 62 64 0 72TYP75 61 61 61 61 62 63 64 65
6 7 8 9 10 11 11 Excee 5 6 7 8 9	53.35 56.35 59.35 62.35 68.35 68.35 Max edance edance 44.35 50.35 53.35 56.35 56.35 59.35 59.35 62.35	67 67 68 69 70 72 1 72 72 72 72 72 72 72 72 72 72 72 72 72	66 67 67 68 68 70 71 1 1 71 1 71 1 71 71 71 7 53 53 53 54 55 55 55 55 55 55 55	66 66 67 67 68 69 71 1 71 71 71 71 71 71 71 71 71 71 71 7	62 63 64 64 67 69 0 69 72TYP59 54 54 55 55 55 55 56 57 59 60	67 68 68 69 70 71 1 71 71 71 71 71 71 71 71 71 55 56 57 57 57 57 58 60 61	68 69 69 70 71 1 71 71 57 57 57 58 59 59 61 62	67 67 68 68 69 69 69 71 1 71 71 71 71 71 71 71 71 71 71 71 60 60 61 62 63	67 67 68 69 69 71 1 71 71 71 71 71 71 71 71 71 71 71 60 60 61 61 62 64	68 68 68 69 70 71 1 1 71 1 71 1 71 1 71 1 7 71 1 7 7 7 60 60 60 61 61 62 63 64	68 69 69 70 71 1 71 71 71 71 71 71 71 71 71 71 71 7	68 68 69 69 70 71 1 71 71 71 71 71 71 71 71 71 71 71 7	69 69 69 70 70 71 71 2 71 2 71 2 71 2 71 2 5 62 62 62 63 64 65 66	69 69 69 69 69 70 70 71 1 1 1 71 71 71 71 71 71 63 63 63 64 64 64 65 65 65	68 68 68 69 69 70 0 70 70 70 70 70 70 70 70 70 70 63 63 64 63 64 65 65 66 67	67 67 67 67 67 68 69 70 0 70 0 70 0 70 0 70 0 70 0 70 63 64 64 65 65 65 66 67	62 62 63 63 64 65 66 66 72TYP71 63 64 64 65 66 66 67	61 61 62 62 63 64 66 0 66 66 5 63 63 64 65 66 67	59 59 60 61 62 63 65 0 50 72TYP73 62 62 63 64 64 64 65 67	56 57 58 59 60 62 64 0 64 64 12TYP74 61 62 63 63 63 63 65 67	54 55 56 57 58 60 62 64 0 64 0 72TYP75 61 61 61 62 63 64 65 67
6 7 8 9 10 11 11 Excee 5 6 7 8	53.35           56.35           59.36           62.35           68.35           Max           edance           Max           44.35           47.35           50.35           53.35           53.35	67 67 68 69 70 72 1 72 72 72 72 72 72 72 72 72 72 72 72 72	66 67 67 68 68 70 71 1 1 71 1 1 71 1 71 1 71 71 71 53 53 53 53 53 55 55 55	66 66 67 67 68 69 71 1 1 71 71 71 71 71 71 71 71 71 71 71	62 63 64 64 67 69 0 69 69 54 54 55 55 55 55 57 59	67 68 68 69 70 71 1 1 71 71 71 71 71 71 71 55 55 55 55 57 57 57 58 60	68 68 69 69 70 71 1 1 71 71 71 71 71 71 71 71 71 71 75 7 57 57 57 58 59 59 61	67 67 68 68 69 69 71 1 71 71 71 71 71 71 71 71 71 71 71 7	67 67 68 69 69 71 1 71 71 71 71 71 71 71 71 69 59 59 60 61 61 62	68 68 68 69 70 71 1 71 1 71 1 71 1 71 1 71 60 60 61 61 61 62 63	68 69 69 70 71 1 71 71 71 71 71 71 71 71 71 71 71 7	68 68 69 69 70 71 1 71 71 71 71 71 71 71 71 71 71 71 7	69 69 69 70 70 71 71 2 71 2 71 2 71 2 71 2 62 62 62 62 62 63 64 65	69 69 69 69 70 70 71 1 71 71 71 71 71 71 71 63 63 63 63 64 64 65 65	68 68 68 69 69 70 0 70 70 70 70 70 70 63 63 63 64 64 65 66	67 67 67 67 67 68 69 70 0 70 0 70 0 70 0 70 0 70 64 63 64 65 65 66	62 62 63 63 64 65 66 0 66 72TYP71 63 63 64 64 65 66	61 61 62 63 64 66 0 66 66 72TYP72 63 63 63 63 63 64 65 66	59 59 60 61 62 63 65 0 55 0 72TYP73 62 62 62 63 64 64 65	56 57 58 59 60 62 64 0 64 64 64 61 62 63 63 63 64 65	54 55 56 57 58 60 62 64 0 72TYP75 61 61 61 61 62 63 64 65

71

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Max

Exceedance

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											T2_12F										
Floor	mPD	T212F01	T212F02	T212F03	T212F04	T212F05	T212F06	T212F07	T212F08	T212F09	T212F10	T212F11	T212F12	T212F13	T212F14	T212F15	T212F16	T212F17	T212F18	T212F19	
	71.35	67	67	67	67	67	67	67	67	73	73	74	73	74	74	74	74	74	74	74	
		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	
Ν	Max	67	67	67	67	67	67	67	67	73	73	74	73	74	74	74	74	74	74	74	í .
Exce	edance		0	-	0		0			1					1						l

											T2_12F										
Floor	mPD	T212F20	T212F21	T212F22	T212F23	T212F24	T212F25	T212F26	T212F27	T212F28	T212F29	T212F30	T212F31	T212F32	T212F33	T212F34	T212F35	T212F36	T212F37	T212F38	
	71.35	74	73	73	72	75	74	74	74	73	72	73	73	73	73	73	73	73	73	73	
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
M	1ax	74	73	73	72	75	74	74	74	73	72	73	73	73	73	73	73	73	73	73	
Excee	edance		1			1			1							1			1		

											T2_12F										
Floor	mPD	T212F39	T212F40	T212F41	T212F42	T212F43	T212F44	T212F45	T212F46	T212F47	T212F48	T212F49	T212F50	T212F51	T212F52	T212F53	T212F54	T212F55	T212F56	T212F57	T212F58
	71.35	72	71	69	69	69	68	68	67	67	67	70	71	71	71	71	71	71	72	73	73
		1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
N	Лах	72	71	69	69	69	68	68	67	67	67	70	71	71	71	71	71	71	72	73	73
Exce	edance		1		(	0		0	(	)		1			1		1	-	1	-	1

										T2_12F					
Floor	mPD	T212F59	T212F60	T212F61	T212F62	T212F63	T212F64	T212F65	T212F66						
	71.35	73	73	74	73	73	73	73	72						
		1	1	1	1	1	1	1	1						
N	Лах	73	73	74	73	73	73	73	72						
Excee	edance		1		1			1							

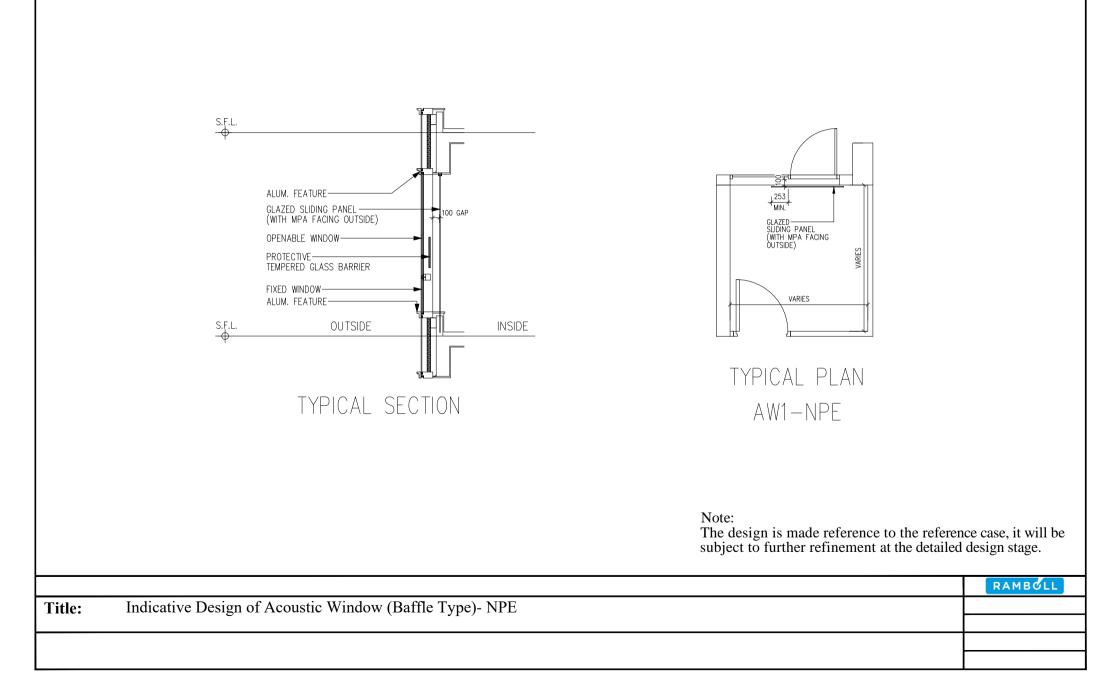
No. of Units:	297
No. of Units with Exceedance:	34
Compliance Level:	89%
Max. Noise Level:	75

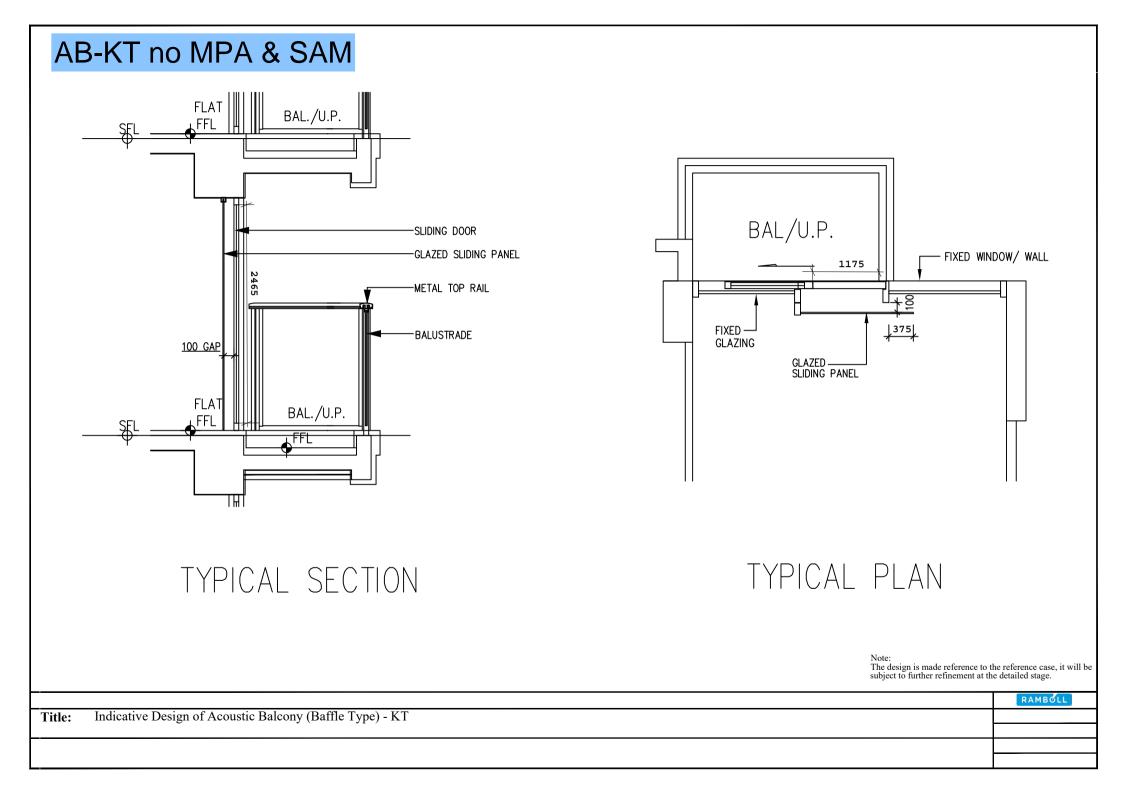
Noted:

Noise level exceed stardand of 70 dB(A)

Appendix 2.3I ndicative Design of AW(BT) & AD(BT) Adopted in theProposed Redevelopment







Appendix 2.4Sound Attenuation Adjustment of AW(BT) & AB(BT)Adopted in the Proposed Redevelopment



#### Adjustment of Sound Attenuation for Traffic Noise Impact Assessment

Reference Case

					Overlapping	Room area (RAref),	Ref. sound attenuation,
Case ID	Acoustic Window/ Door System	SAM at 100mm gap	MPA	Air Gap, mm	length (Mullion Included), mm	m <sup>2</sup>	dB(A)
BAL	AB(BT)-KT	No	No	100	100	11.2	6.7
					Overlapping	Room area (RAref),	Ref. sound attenuation,
Case ID	Acoustic Window/ Door System	SAM at 100mm gap	MPA	Air Gap, mm	length (Mullion Included), mm	m <sup>2</sup>	dB(A)
W	AW(BT)-NPE	No	Yes	100	253	6.8	6.8

			Proposed Development					Reference Case			Pro	oposed Devel	lopment
NSRs with Acoustic Window / Balcony (Baffle Type)	Tower	Room	Referred Case ID	Air Gap,	Overlapping length (Mullion Included), mm	Room area (RA), m <sup>2</sup>	Air Gap, mm	Overlapping length (Mullion Included),	Room area (RAref), m <sup>2</sup>	Ref. sound attenuation, dB(A)	Adjustment: 10xlog(RA/RA ref)	SAM	Adjusted sound
· // /				mm	<i>1</i> .	· · · ·		mm		( )	,	SAIVI	attenuation, dB(A
T1GF13	N1	LIV/DIN	BAL	100	100	16.7	100	100	11.2	6.7	0.0		6.7
T1GF14	N1	BR1	W	100	253	6.4	100	253	6.8	6.8	-0.3		6.5
T1GF15	N1	MBR	W	100	253	7.2	100	253	6.8	6.8	0.0		6.8
T1GF16	N1	BR1	W	100	253	4.2	100	253	6.8	6.8	-2.1		4.7
T1GF17	N1	LIV/DIN	BAL	100	100	12.2	100	100	11.2	6.7	0.0		6.7
T1GF18	N1	BR1	W	100	253	5.9	100	253	6.8	6.8	-0.6		6.2
T1GF19	N1	LIV/DIN	BAL	100	100	12.2	100	100	11.2	6.7	0.0		6.7
T1GF20	N1	MBR	W	100	253	7.6	100	253	6.8	6.8	0.0		6.8
T1GF21	N1	BR1	W	100	253	5.9	100	253	6.8	6.8	-0.6		6.2
T1GF22	N1	LIV/DIN	BAL	100	100	12.2	100	100	11.2	6.7	0.0		6.7
T1GF23	N1	MBR	W	100	253	7.6	100	253	6.8	6.8	0.0		6.8
T1GF24	N1	BR1	W	100	253	5.9	100	253	6.8	6.8	-0.6		6.2
T1GF25	N1	LIV/DIN	BAL	100	100	12.2	100	100	11.2	6.7	0.0		6.7
T1GF26	N1	MBR	W	100	253	7.6	100	253	6.8	6.8	0.0		6.8
T11F13	N1	LIV/DIN	BAL	100	100	16.7	100	100	11.2	6.7	0.0		6.7
T11F14	N1	BR1	W	100	253	6.4	100	253	6.8	6.8	-0.3		6.5
T11F15	N1	MBR	W	100	253	7.2	100	253	6.8	6.8	0.0		6.8
T11F16	N1	BR1	W	100	253	4.2	100	253	6.8	6.8	-2.1		4.7
T11F17	N1	LIV/DIN	BAL	100	100	12.2	100	100	11.2	6.7	0.0		6.7
T11F18	N1	BR1	W	100	253	5.9	100	253	6.8	6.8	-0.6		6.2
T11F19	N1	LIV/DIN	BAL	100	100	12.2	100	100	11.2	6.7	0.0		6.7
T11F20	N1	MBR	W	100	253	7.6	100	253	6.8	6.8	0.0		6.8
T11F21	N1	BR1	W	100	253	5.9	100	253	6.8	6.8	-0.6		6.2
T11F22	N1	LIV/DIN	BAL	100	100	12.2	100	100	11.2	6.7	0.0		6.7
T11F23	N1	MBR	W	100	253	7.6	100	253	6.8	6.8	0.0		6.8
T11F24	N1	BR1	W	100	253	5.9	100	253	6.8	6.8	-0.6		6.2
T11F25	N1	LIV/DIN	BAL	100	100	12.2	100	100	11.2	6.7	0.0		6.7
T11F26	N1	MBR	W	100	253	7.6	100	253	6.8	6.8	0.0		6.8
T1TYP13	N1	LIV/DIN	BAL	100	100	16.7	100	100	11.2	6.7	0.0		6.7
T1TYP14	N1	BR1	W	100	253	6.4	100	253	6.8	6.8	-0.3		6.5

		14/	100	252	7.0	100	252	( )	( )		( 0
T1TYP15 T1TYP16	N1 MBR N1 BR1	W W	100 100	253 253	7.2	100 100	253 253	6.8 6.8	6.8 6.8	0.0 -2.1	6.8
T1TYP17	N1 LIV/DIN	BAL	100	100	12.2	100	100	11.2	6.7	0.0	6.7
T1TYP18	N1 BR1	W	100	253	5.9	100	253	6.8	6.8	-0.6	6.2
T1TYP19	N1 LIV/DIN	BAL	100	100	12.2	100	100	11.2	6.7	0.0	6.7
T1TYP20	N1 MBR	W	100	253	7.6	100	253	6.8	6.8	0.0	6.8
T1TYP21	N1 BR1	W	100	253	5.9	100	253	6.8	6.8	-0.6	6.2
T1TYP22	N1 LIV/DIN	BAL	100	100	12.2	100	100	11.2	6.7	0.0	6.7
T1TYP23	N1 MBR	W	100	253	7.6	100	253	6.8	6.8	0.0	6.8
T1TYP24	N1 BR1	W	100	253	5.9	100	253	6.8	6.8	-0.6	6.2
T1TYP25	N1 LIV/DIN	BAL	100	100	12.2	100	100	11.2	6.7	0.0	6.7
T1TYP26	N1 MBR	W	100	253	7.6	100	253	6.8	6.8	0.0	6.8
T1TYP27	N1 BR1	W	100	253	5.9	100	253	6.8	6.8	-0.6	6.2
T1TYP28	N1 LIV/DIN	BAL	100	100	12.2	100	100	11.2	6.7	0.0	6.7
T1TYP29	N1 MBR	W	100	253	7.6	100	253	6.8	6.8	0.0	6.8
		W	100	253	8.1	100	253			0.0	
T1TYP30	N1 MBR							6.8	6.8		6.8
T1TYP31	N1 BR1	W	100	253	4.6	100	253	6.8	6.8		D.6 5.7
T1TYP32	N1 LIV/DIN	BAL	100	100	12.1	100	100	11.2	6.7	0.0	6.7
T1TYP33	N1 MBR	W	100	253	7.2	100	253	6.8	6.8	0.0	6.8
T1TYP34	N1 BR1	W	100	253	4.2	100	253	6.8	6.8	-2.1	4.7
T1TYP35	N1 LIV/DIN	BAL	100	100	13.5	100	100	11.2	6.7	0.0	6.7
T1TYP36	N1 MBR	W	100	253	6.9	100	253	6.8	6.8	0.0	6.8
T1TYP37	N1 LIV/DIN	BAL	100	100	12.0	100	100	11.2	6.7	0.0	6.7
T1TYP38	N1 BR1	W	100	253	6.7	100	253	6.8	6.8	-0.1	6.7
T1TYP39	N1 MBR	W	100	253	6.9	100	253	6.8	6.8	0.0	6.8
T1TYP40	N1 LIV/DIN	BAL	100	100	12.0	100	100	11.2	6.7	0.0	6.7
T1TYP41	N1 BR1	W	100	253	6.7	100	253	6.8	6.8	-0.1	6.7
T1TYP42	N1 MBR	W	100	253	6.9	100	253	6.8	6.8	0.0	6.8
T1TYP43	N1 LIV/DIN	BAL	100	100	12.0	100	100	11.2	6.7	0.0	6.7
T1TYP44	N1 BR1	W	100	253	6.7	100	253	6.8	6.8	-0.1	6.7
T1TYP45	N1 MBR	W	100	253	6.9	100	253	6.8	6.8	0.0	6.8
T1TYP46	N1 LIV/DIN	BAL	100	100	12.0	100	100	11.2	6.7	0.0	6.7
	-		100	253			253				
T1TYP47	N1 BR1	W			6.7	100		6.8	6.8	-0.1	6.7
T1TYP48	N1 LIV/DIN	BAL	100	100	12.0	100	100	11.2	6.7	0.0	6.7
T1TYP49	N1 MBR	W	100	253	7.4	100	253	6.8	6.8	0.0	6.8
T113F13	N1 LIV/DIN	BAL	100	100	16.7	100	100	11.2	6.7	0.0	6.7
T113F14	N1 BR1	W	100	253	6.4	100	253	6.8	6.8	-0.3	6.5
T113F15	N1 MBR	W	100	253	7.2	100	253	6.8	6.8	0.0	6.8
T113F16	N1 BR1	W	100	253	4.2	100	253	6.8	6.8	-2.1	4.7
T113F17	N1 LIV/DIN	BAL	100	100	12.2	100	100	11.2	6.7	0.0	6.7
T113F18	N1 BR1	W	100	253	5.9	100	253	6.8	6.8	-0.6	6.2
T113F19	N1 LIV/DIN	BAL	100	100	12.2	100	100	11.2	6.7	0.0	6.7
T113F20	N1 MBR	W	100	253	7.6	100	253	6.8	6.8	0.0	6.8
T113F21	N1 BR1	W	100	253	5.9	100	253	6.8	6.8	-0.6	6.2
T113F22	N1 LIV/DIN	BAL	100	100	12.2	100	100	11.2	6.7	0.0	6.7
T113F23	N1 MBR	W	100	253	7.6	100	253	6.8	6.8	0.0	6.8
T113F24	N1 BR1	W	100	253	5.9	100	253	6.8	6.8	-0.6	6.2
T113F24		BAL	100	100	12.2	100	100			-0.8	
	N1 LIV/DIN							11.2	6.7		6.7
T113F26	N1 MBR	W	100	253	7.6	100	253	6.8	6.8	0.0	6.8
T113F27	N1 BR1	W	100	253	5.9	100	253	6.8	6.8	-0.6	6.2
T113F28	N1 LIV/DIN	BAL	100	100	12.2	100	100	11.2	6.7	0.0	6.7
T113F29	N1 MBR	W	100	253	7.6	100	253	6.8	6.8	0.0	6.8
T113F30	N1 MBR	W	100	253	8.1	100	253	6.8	6.8	0.0	6.8
							0.50	( )		4.7	E 1
T113F31	N1 BR1	W	100	253	4.6	100	253	6.8	6.8	-1.7	5.1
	N1         BR1           N1         LIV/DIN	W BAL	100 100	253 100	4.6 12.1	100 100	253 100	6.8 11.2	6.8	-1.7	6.7

T113F34	N1	BR1	W	100	253	4.2	100	253	6.8	6.8	-2.1	4.7
T113F35	N1	LIV/DIN	BAI	100	100	13.5	100	100	11.2	6.7	0.0	6.7
	IN I											÷
T113F36	NI	MBR	W	100	253	6.9	100	253	6.8	6.8	0.0	 6.8
T113F37	N1	LIV/DIN	BAL	100	100	12.0	100	100	11.2	6.7	0.0	6.7
T113F38	N1	BR1	W	100	253	6.7	100	253	6.8	6.8	-0.1	6.7
T113F39	N1	MBR	W	100	253	6.9	100	253	6.8	6.8	0.0	6.8
T113F40	N1	LIV/DIN	BAL	100	100	12.0	100	100	11.2	6.7	0.0	6.7
T113F41	N1	BR1	W	100	253	6.7	100	253	6.8	6.8	-0.1	6.7
T113F42	N1	MBR	W	100	253	5.0	100	253	6.8	6.8	-1.3	5.5
T113F59	N1	LIV/DIN	BAL	100	100	12.2	100	100	11.2	6.7	0.0	6.7
T113F60	N1	MBR	W	100	253	6.9	100	253	6.8	6.8	0.0	6.8
T113F61	N1	LIV/DIN	BAL	100	100	12.0	100	100	11.2	6.7	0.0	6.7
T113F62	N1	BR1	W	100	253	6.7	100	253	6.8	6.8	-0.1	6.7
T113F63	N1	MBR	W	100	253	6.6	100	253	6.8	6.8	-0.1	6.7
T113F60	N1	MBR	W	100	253	6.9	100	253	6.8	6.8	0.0	6.8
T113F64	N1	LIV/DIN	BAL	100	100	11.7	100	100	11.2	6.7	0.0	6.7
T113F65	N1	LIV/DIN	BAL	100	100	11.7	100	100	11.2	6.7	0.0	6.7
T113F66	N1	MBR	W	100	253	6.6	100	253	6.8	6.8	-0.1	6.7
T113F67	N1	LIV/DIN	BAL	100	100	11.7	100	100	11.2	6.7	0.0	6.7
T113F68	N1	BR1	W	100	253	4.6	100	253	6.8	6.8	-1.7	5.1
T113F69	N1	MBR	W	100	253	7.0	100	253	6.8	6.8	0.0	6.8
T113F70	N1	LIV/DIN	BAL	100	100	15.7	100	100	11.2	6.7	0.0	6.7
T113F71	N1	MBR	W	100	253	6.4	100	253	6.8	6.8	-0.3	6.5
T113F72	N1	BR1	W	100	253	4.1	100	253	6.8	6.8	-2.2	4.6

#### Adjustment of Sound Attenuation for Traffic Noise Impact Assessment

Reference Case

Reference case												
						Overlapping	Room area					
Case ID	A	coustic Window/ Door System	SAM at 100mm gap	MPA	Air Gap, mm	length (Mullion Included), mm	(RAref), m <sup>2</sup>	Ref. sound attenuation, dB(A)				
BAL		AB(BT)-KT	No	No	100	275	11.2	6.7	J			
			1		1		Room area		1			
Case ID		coustic Window/ Door System	CAM at 100mm gap	MPA	Air Con mm	Overlapping length (Mullion Included), mm	(RAref), m <sup>2</sup>	Def cound attenuation dB(A)				
Case ID W	A	AW(BT) -NPE	SAM at 100mm gap No	Yes	Air Gap, mm 100	253	(RAFEF), m 6.8	Ref. sound attenuation, dB(A) 6.8				
vv		AW(BT) -INPE	INO	162	100	253	0.8	0.8	]			
	1	2	5 6	7	8	9	10	11	12	13	3 14	4 15
			oposed Development	1	0	,	10	Reference Case	12		Proposed De	
									Room			Adjusted
					Overlapping				area	Ref. sound	Adjustment:	sound
NSRs with Acoustic Window /				Air Gap.	length (Mullion			Overlapping	(RAref),	attenuation,	10xlog(RA/RAr	
Balcony (Baffle Type)	Tower	Room	Referred Case ID	mm	Included), mm	Room area (RA), m <sup>2</sup>	Air Gap, mm	length (Mullion Included), mm	m <sup>2</sup>	dB(A)	ef)	dB(A)
T2TYP19	N2	MBR	W	100	253	9.0	100	253	6.8	6.8	0.0	6.8
T2TYP20	N2	BR1	W	100	253	4.9	100	253	6.8	6.8	-1.4	5.4
T2TYP21	N2	LIV/DIN	BAL	100	275	18.0	100	275	11.2	6.7	0.0	6.7
T2TYP22	N2	MBR	W	100	253	8.6	100	253	6.8	6.8	0.0	6.8
T2TYP23	N2	BR1	W	100	253	5.4	100	253	6.8	6.8	-1.0	5.8
T2TYP24	N2	LIV/DIN	BAL	100	275	16.0	100	275	11.2	6.7	0.0	6.7
T2TYP25	N2	BR1	W	100	253	7.5	100	253	6.8	6.8	0.0	6.8
T2TYP26	N2	LIV/DIN	BAL	100	275	17.9	100	275	11.2	6.7	0.0	6.7
T2TYP27	N2	BR1	W	100	253	4.8	100	253	6.8	6.8	-1.5	5.3
T2TYP28	N2	BR1	W	100	253	4.8	100	253	6.8	6.8	-1.5	5.3
T2TYP29	N2	MBR	W	100	253	9.0	100	253	6.8	6.8	0.0	6.8
T2TYP30	N2	BR1	W	100	253	6.0	100	253	6.8	6.8	-0.5	6.3
T2TYP34	N2	MBR	W	100	253	6.6	100	253	6.8	6.8	-0.1	6.7
T2TYP35	N2	LIV/DIN	BAL	100	275	14.5	100	275	11.2	6.7	0.0	6.7
T2TYP36	N2	BR1	W	100	253	6.2	100	253	6.8	6.8	-0.4	6.4
T2TYP37	N2	LIV/DIN	BAL	100	275	12.2	100	275	11.2	6.7	0.0	6.7
T2TYP38	N2	MBR	W	100	253	6.8	100	253	6.8	6.8	0.0	6.8
T2TYP40	N2	LIV/DIN	BAL	100	275	14.5	100	275	11.2	6.7	0.0	6.7
T2TYP41	N2	MBR	W	100	253	6.6	100	253	6.8	6.8	-0.1	6.7
T2TYP42	N2	BR1	W	100	253	4.4	100	253	6.8	6.8	-1.9	4.9
T2TYP43	N2	MBR	W	100	253	7.6	100	253	6.8	6.8	0.0	6.8
T2TYP44	N2	LIV/DIN	BAL	100	275	12.0	100	275	11.2	6.7	0.0	6.7
T2TYP45	N2	BR1	W	100	253	5.8	100	253	6.8	6.8	-0.7	6.1
T2TYP46	N2	LIV/DIN	BAL	100	275	13.9	100	275	11.2	6.7	0.0	6.7
T2TYP47	N2	MBR	W	100	253	7.8	100	253	6.8	6.8	0.0	6.8
T2TYP48	N2	BR1	W	100	253	4.2	100	253	6.8	6.8	-2.1	4.7
T2TYP69	N2	LIV/DIN	BAL	100	275	12.0	100	275	11.2	6.7	0.0	6.7
T2TYP70	N2	MBR	W	100	253	7.6	100	253	6.8	6.8	0.0	6.8
T2TYP71	N2	MBR	W	100	253	7.6	100	253	6.8	6.8	0.0	6.8

T2TYP72	N2	LIV/DIN	BAL	100	275	14.5	100	275	11.2	6.7	0.0	6.7
T2TYP72	N2	BR1	W	100	253	6.2	100	275	6.8	6.8	-0.4	6.4
T2TYP74		LIV/DIN	BAL	100	275	15.1	100	275	11.2	6.7	-0.4	6.7
T2TYP74 T2TYP75	N2		W	100	275	6.5	100	275			-0.2	
T212F09	N2	MBR	W	100	253	9.0	100	253	6.8 6.8	6.8 6.8	-0.2	6.6 6.8
	N2											
T212F10	N2	BR1	W	100	253	4.9	100	253	6.8	6.8	-1.4	5.4
T212F11	N2	LIV/DIN	BAL	100	275	18.0	100	275	11.2	6.7	0.0	6.7
T212F12	N2	MBR	W	100	253	8.6	100	253	6.8	6.8	0.0	6.8
T212F13	N2	BR1	W	100	253	5.4	100	253	6.8	6.8	-1.0	5.8
T212F14	N2	LIV/DIN	BAL	100	275	16.0	100	275	11.2	6.7	0.0	6.7
T212F15	N2	BR1	W	100	253	7.5	100	253	6.8	6.8	0.0	6.8
T212F16	N2	LIV/DIN	BAL	100	275	17.9	100	275	11.2	6.7	0.0	6.7
T212F17	N2	BR1	W	100	253	4.8	100	253	6.8	6.8	-1.5	5.3
T212F18	N2	BR1	W	100	253	4.8	100	253	6.8	6.8	-1.5	5.3
T212F19	N2	MBR	W	100	253	9.0	100	253	6.8	6.8	0.0	6.8
T212F20	N2	BR1	W	100	253	6.0	100	253	6.8	6.8	-0.5	6.3
T212F21	N2	LIV/DIN	BAL	100	275	12.0	100	275	11.2	6.7	0.0	6.7
T212F22	N2	MBR	W	100	253	6.9	100	253	6.8	6.8	0.0	6.8
T212F23	N2	BR1	W	100	253	4.7	100	253	6.8	6.8	-1.6	5.2
T212F24	N2	MBR	W	100	253	6.6	100	253	6.8	6.8	-0.1	6.7
T212F25	N2	LIV/DIN	BAL	100	275	14.5	100	275	11.2	6.7	0.0	6.7
T212F26	N2	BR1	W	100	253	6.2	100	253	6.8	6.8	-0.4	6.4
T212F27	N2	LIV/DIN	BAL	100	275	12.2	100	275	11.2	6.7	0.0	6.7
T212F28	N2	MBR	W	100	253	6.8	100	253	6.8	6.8	0.0	6.8
T212F29	N2	MBR	W	100	253	6.8	100	253	6.8	6.8	0.0	6.8
T212F30	N2	LIV/DIN	BAL	100	275	14.5	100	275	11.2	6.7	0.0	6.7
T212F31	N2	MBR	W	100	253	6.6	100	253	6.8	6.8	-0.1	6.7
T212F32	N2	BR1	W	100	253	4.4	100	253	6.8	6.8	-1.9	4.9
T212F33	N2	MBR	W	100	253	7.6	100	253	6.8	6.8	0.0	6.8
T212F34	N2	LIV/DIN	BAL	100	275	12.0	100	275	11.2	6.7	0.0	6.7
T212F35	N2	BR1	W	100	253	5.8	100	253	6.8	6.8	-0.7	6.1
T212F36	N2	LIV/DIN	BAL	100	275	13.9	100	275	11.2	6.7	0.0	6.7
T212F37	N2	MBR	W	100	253	7.8	100	253	6.8	6.8	0.0	6.8
T212F38	N2	BR1	W	100	253	4.2	100	253	6.8	6.8	-2.1	4.7
T212F39	N2	BR1	W	100	253	4.9	100	253	6.8	6.8	-1.4	5.4
T212F40	N2	MBR	W	100	253	6.5	100	253	6.8	6.8	-0.2	6.6
T212F50	N2	LIV/DIN	BAL	100	275	15.1	100	275	11.2	6.7	0.0	6.7
T212F51	N2	MBR	W	100	253	6.7	100	253	6.8	6.8	-0.1	6.7
T212F52	N2	LIV/DIN	BAL	100	275	12.2	100	275	11.2	6.7	0.0	6.7
T212F53	N2	BR1	W	100	253	6.7	100	253	6.8	6.8	-0.1	6.7
T212F54	N2	LIV/DIN	BAL	100	275	11.7	100	275	11.2	6.7	0.0	6.7
T212F55	N2	MBR	W	100	253	6.6	100	253	6.8	6.8	-0.1	6.7
T212F56	N2	LIV/DIN	BAL	100	275	11.7	100	275	11.2	6.7	0.0	6.7
T212F57	N2	MBR	W	100	253	6.6	100	253	6.8	6.8	-0.1	6.7
T212F58	N2	LIV/DIN	BAL	100	275	11.7	100	275	11.2	6.7	0.0	6.7
T212F59	N2	LIV/DIN	BAL	100	275	11.7	100	275	11.2	6.7	0.0	6.7
T212F60	N2	MBR	W	100	253	6.6	100	253	6.8	6.8	-0.1	6.7
T212F61	N2	MBR	W	100	253	6.6	100	253	6.8	6.8	-0.1	6.7
T212F62	N2	LIV/DIN	BAL	100	275	13.9	100	275	11.2	6.7	0.0	6.7
T212F63	N2	BR1	W	100	253	6.6	100	253	6.8	6.8	-0.1	6.7
T212F64	N2	LIV/DIN	BAL	100	275	15.1	100	275	11.2	6.7	0.0	6.7
T212F65	N2	MBR	W	100	253	6.6	100	253	6.8	6.8	-0.1	6.7
T212F66	N2	BR1	W	100	253	5.0	100	253	6.8	6.8	-1.3	5.5

Appendix 2.5 Road Traffic Noise Impact Assessment Result (Mitigated Case)



											T1_GF										
Floor	mPD	T1GF01	T1GF02	T1GF03	T1GF04	T1GF05	T1GF06	T1GF07	T1GF08	T1GF09	T1GF10	T1GF11	T1GF12	T1GF13	T1GF14	T1GF15	T1GF16	T1GF17	T1GF18	T1GF19	T1GF20
	32.35	52	68	69	68	68	68	68	68	68	68	67	63	70	70	70	70	70	70	70	70
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ma	ах	52	68	69	68	68	68	68	68	68	68	67	63	70	70	70	70	70	70	70	70
Exceed	dance			Ċ			0			0				0			0			0	
											T1_GF										
Floor	mPD	T1GF21	T1GF22	T1GF23	T1GF24	T1GF25	T1GF26	T1GF27	T1GF28	T1GF29	T1GF30	T1GF31	T1GF32	T1GF33	T1GF34	T1GF35	T1GF36				
	32.35	70	70	70	70	70	70	52	53	53	53	53	54	54	55	56	56				
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Ma	ах	70	70	70	70	70	70	52	53	53	53	53	54	54	55	56	56				
Exceed	dance		0			0		(	)	(	)		0		0	(	)				
Floor		T11F01	T11F02	T11F03	T11F04	T11F05	T11F06	T11F07	T11F08	T11F09	T11F10	T11F11	T11F12	T11F13	T11F14	T11F15	T11F16	T11F17	T11F18	T11F19	T11F20
	35.35	53	68	69	68	68	68	68	68	68	68	67	63	70	70	70	70	70	70	70	70
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ma		53	68	69	68	68	68	68	68	68	68	67	63	70	70	70	70	70	70	70	70
Exceed	dance			0			0			0				0			0			0	
											T1_1F										
Floor		T11F21	T11F22	T11F23	T11F24	T11F25	T11F26	T11F27	T11F28	T11F29	T11F30	T11F31	T11F32	T11F33	T11F34	T11F35	T11F36	T11F37	T11F38	T11F39	
	35.35	70	70	70	70	70	70	58	55	52	51	52	52	52	52	51	52	52	51	52	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ma		70	70	70	70	70	70	58	55	52	51	52	52	52	52	51	52	52	51	52	
Exceed	dance		0			0			0			0		0	(	C		0		0	
-																					1
	-										T1_1F		•		•						
Floor			T11F41	T11F42	T11F43	T11F44	T11F45	T11F46	T11F47	T11F48	T11F49	T11F50	T11F51	T11F52	T11F53	T11F54	T11F55				
	35.35	52	52	52	52	52	53	53	53	54	54	54	55	55	56	56	57				
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Ma	-	52	52	52	52	52	53	53	53	54	54	54	55	55	56	56	57				
Exceed	dance		0			0		(	C	(	)		0			0					

### Mitigated Case

											T1_TYP										
Floor	mPD	T1TYP01	T1TYP02	T1TYP03	T1TYP04	T1TYP05	T1TYP06	T1TYP07	T1TYP08	T1TYP09	T1TYP10	T1TYP11	T1TYP12	T1TYP13	T1TYP14	T1TYP15	T1TYP16	T1TYP17	T1TYP18	T1TYP19	T1TYP20
2	38.35	53	68	69	68	68	68	68	68	68	68	67	63	70	70	70	70	70	70	70	70
3	41.35	54	68	69	68	68	68	68	68	68	68	67	63	70	70	70	70	70	70	70	70
4	44.35	54	68	68	68	68	68	68	68	68	68	67	63	70	70	70	70	70	70	70	70
5	47.35	55	68	68	68	68	68	68	68	68	68	67	63	70	70	70	70	70	70	70	70
6	50.35	56	68	68	68	68	68	68	68	68	68	67	63	70	70	70	70	70	70	70	70
7	53.35	57	68	68	68	68	68	68	68	68	68	67	63	70	70	70	70	70	70	70	70
8	56.35	59	68	68	68	68	68	68	68	68	68	67	63	70	70	70	70	70	70	70	70
9	59.35	60	68	68	68	68	68	68	68	68	68	67	63	70	70	70	70	70	70	70	70
10	62.35	62	68	68	68	68	68	68	68	68	68	67	63	70	70	70	70	70	70	70	70
11	65.35	65	68	68	68	68	68	68	68	68	68	67	64	70	70	70	70	70	70	70	70
12	68.35	67	69	69	68	68	68	68	68	68	68	68	64	70	70	70	70	70	70	70	70
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	lax	67	69	69	68	68	68	68	68	68	68	68	64	70	70	70	70	70	70	70	70
Exceed	edance 0 0								0			(	)			0			0		
		T1T/001	T1T/000	T4T\/D00		T1T/D05		T1T//D07	T1T//D00	T1T//D00	T1_TYP	T1T/001	T1T/000	T1T/000	T1T//D0/	T4T\/D05	T1T//D2/		T1T//D00		
Floor		T1TYP21				T1TYP25	T1TYP26			T1TYP29	T1TYP30		T1TYP32		T1TYP34	T1TYP35			T1TYP38		
2	38.35	-	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70		
3	41.35 44.35	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70		
4	44.35	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70		
	47.35	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70		
6	53.35	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70		
8	56.35	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70		
9	59.35	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70		
10	62.35	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70		
11	65.35	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70		
12	68.35	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70		
<u> </u>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
N	lax	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70		
Exceed		,,,	0	,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, o 0	, ,	,0	0	, 0	,,,	0	,,,	,,,	0	,,,	, 0	0	,,,		
			5			0			5			3			3			5			

### Mitigated Case

											T1_TYP										
Floor	mPD	T1TYP39	T1TYP40	T1TYP41	T1TYP42	T1TYP43	T1TYP44	T1TYP45	T1TYP46	T1TYP47	T1TYP48	T1TYP49	T1TYP50	T1TYP51	T1TYP52	T1TYP53	T1TYP54	T1TYP55	T1TYP56	T1TYP57	
2	38.35	70	70	70	70	70	70	70	70	70	70	70	59	58	55	52	52	52	52	52	
3	41.35	70	70	70	70	70	70	70	70	70	70	70	60	59	56	52	52	52	52	52	
4	44.35	70	70	70	70	70	70	70	70	70	70	70	60	59	56	53	53	53	53	53	
5	47.35	70	70	70	70	70	70	70	70	70	70	70	60	60	57	53	53	53	53	53	
6	50.35	70	70	70	70	70	70	70	70	70	70	70	61	61	57	54	54	54	54	54	
7	53.35	70	70	70	70	70	70	70	70	70	70	70	62	61	58	55	55	55	55	55	
8	56.35	70	70	70	70	70	70	70	70	70	70	70	63	62	59	56	56	56	56	56	
	59.35	70	70	70	70	70	70	70	70	70	70	70	64	63	61	57	57	57	57	57	
	62.35	70	70	70	70	70	70	70	70	70	70	70	65	65	62	58	58	58	58	58	
	65.35	70	70	70	70	70	70	70	70	70	70	70	66	66	64	60	60	60	60	60	
12	68.35	70	70	70	70	70	70	70	70	70	70	70	68	68	66	63	62	63	62	62	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
M	-	70	70	70	70	70	70	70	70	70	70	70	68	68	66	63	62	63	62	62	
Exceed	ance		0			0			0			0			0		(	)	(	0	
Floor	mDD										T1_TYP						T1TVD72				
		T1TYP58				T1TYP62		T1TYP64	T1TYP65	T1TYP66	T1TYP67	T1TYP68		T1TYP70		T1TYP72	-	T1TYP74	T1TYP75		
	38.35	52	52	52	52	52	52	52	52	52	52	53	53	53	53	53	54	54	54		
3	41.35 44.35	52	52	52 53	52	52	52	52	52 53	53	53	53	53	54	54 55	54	55	55	55		
4	44.35	53 53	53 53	53	53 53	53 53	53 53	53 53	53	53 54	53 54	54 54	54 54	54 55	56	55 56	55 56	56 57	56 57		
6	50.35	54	54	54	54	53 54	53 54	54	53	54 54	54 55	55	55	56	50	50	50	58	58		
7	53.35	55	55	55	55	54 54	54 54	55	55	55	55	56	56	50	58	58	57	59	59		
8	56.35	56	55	55	55	55	55	55	55	56	57	57	58	59	58	58	60	60	61		
9	59.35	57	57	56	57	56	56	56	57	57	58	59	59	60	61	61	62	62	62		
10	62.35	58	58	58	58	58	58	58	58	59	60	61	61	62	63	63	64	64	64		
	65.35	60	60	60	60	60	60	60	60	61	62	63	64	65	65	65	66	66	67		
	68.35	62	62	62	62	62	62	62	62	64	65	66	67	68	68	68	69	69	69		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
М	ах	62	62	62	62	62	62	62	62	64	65	66	67	68	68	68	69	69	69		
Exceed		-	)		)		)	-	)		0			0			0		)		

Ŭ									T1_TYP					
Floor	mPD	T1TYP76	T1TYP77	T1TYP78	T1TYP79	T1TYP80	T1TYP81							
2	38.35	55	55	56	56	57	57							
3	41.35	55	56	56	57	57	58							
4	44.35	56	57	57	58	58	59							
5	47.35	57	58	58	59	59	60							
6	50.35	58	59	59	60	60	60							
7	53.35	60	60	60	61	61	61							
8	56.35	61	61	62	62	62	63							
9	59.35	63	63	63	63	64	64							
10	62.35	64	65	65	65	66	66							
11	65.35	67	67	67	67	68	68							
12	68.35	70	70	70	70	70	70							
		0	0	0	0	0	0							
	1ax	70	70	70	70	70	70							
Exceed	dance		0			0								

#### Mitigated Case

											T1_13F										
Floor	mPD	T113F01	T113F02	T113F03	T113F04	T113F05	T113F06	T113F07	T113F08	T113F09	T113F10	T113F11	T113F12	T113F13	T113F14	T113F15	T113F16	T113F17	T113F18	T113F19	T113F20
	71.65	69	70	69	69	69	69	69	69	69	69	69	66	70	70	70	70	70	70	70	70
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	lax	69	70	69	69	69	69	69	69	69	69	69	66	70	70	70	70	70	70	70	70
Exceed	lance		(	)			0			0			(	0			0			0	
											T1 10F										
Floor	mDD	T113F21	T112F22	T112F22	T112F24	T112F2E	T112F24	T112F27	T112F20	T112F20	T1_13F	T112F21	T112F22	T112F22	T112F24	T112F2F	T112F24	T112F27	T112F20		
Floor	mPD 71.65		T113F22	T113F23	T113F24	T113F25	T113F26	T113F27	T113F28	T113F29	T113F30	T113F31	T113F32	T113F33	T113F34	T113F35	T113F36	T113F37	T113F38		
	71.00	70 0	70	70	70	70	70	70	70 0	70	70	70	70	70	70	70	70	70	70		
M	ax	70	0 70	0 70	0 70	0 70	0 70	0 70	70	0 70	70	0 70									
Exceed	-	70	0	70	70	70 0	70	70	0	70	70	0	70	70	0	70	70	0	70		
EXCOU	unee		0			0			0			0			0			0			
											T1_13F										
Floor	mPD	T113F39	T113F40	T113F41	T113F42	T113F43	T113F44	T113F45	T113F46	T113F47	T113F48	T113F49	T113F50	T113F51	T113F52	T113F53	T113F54	T113F55	T113F56		
	71.65	70	70	70	70	70	68	67	67	66	67	67	67	67	67	67	67	67	67		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Μ	lax	70	70	70	70	70	68	67	67	66	67	67	67	67	67	67	67	67	67		
Exceed	lance		0			0		(	)	(	)	(	)		0	(	)		0		
											T1_13F										
Floor		T113F57	T113F58	T113F59	T113F60	T113F61	T113F62	T113F63	T113F64	T113F65	T113F66	T113F67	T113F68	T113F69	T113F70	T113F71	T113F72				
	71.65	69	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70				
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
-	lax	69	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70				
Exceed	lance		0			0		(	C	(	)		0			0					

No. of Units:	378
No. of Units with Exceedance:	0
Compliance Level:	100%
Max. Noise Level:	70

Noted:

Noise level exceed stardand of 70 dB(A) Acoustic Balcony (Baffle Type)-KT Acoustic Window (Baffle Type)-NPE

										T2	_1F										
Floor	mPD	T21F01	T21F02	T21F03	T21F04	T21F05	T21F06	T21F07	T21F08	T21F09	T21F10	T21F11	T21F12	T21F13	T21F14	T21F15	T21F16	T21F17	T21F18	T21F19	T21F20
	38.35	61	61	61	61	60	60	60	52	53	54	56	58	58	59	59	61	61	62	63	63
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Max	61	61	61	61	60	60	60	52	53	54	56	58	58	59	59	61	61	62	63	63
Exce	eedance		(	C			0		(	)		0		(	C	(	)	(	)	(	)
										T2	_1F										
Floor	mPD	T21F21	T21F22	T21F23	T21F24	T21F25	T21F26														
	38.35	62	62	61	60	59	58														
		0	0	0	0	0	0														
	Max	62	62	61	60	59	58														
Exce	eedance		0			0															
_																					
										T2	_2F										
Floor	mPD	T22F01	T22F02	T22F03	T22F04	T22F05	T22F06	T22F07	T22F08	T22F09	T22F10	T22F11	T22F12	T22F13	T22F14	T22F15	T22F16	T22F17			
	41.35	63	63	62	62	62	62	61	61	61	60	60	59	65	65	65	64	64			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Max	63	63	62	62	62	62	61	61	61	60	60	59	65	65	65	64	64			
Exce	eedance		(	)			0				0			0			0				
										T2	_2F										
Floor	mPD	T22F18	T22F19	T22F20	T22F21	T22F22	T22F23	T22F24	T22F25	T22F26	T22F27	T22F28	T22F29	T22F30	T22F31	T22F32	T22F33	T22F34	T22F35	T22F36	
	41.35	60	65	65	64	64	64	66	66	68	68	67	66	61	59	57	54	53	52	52	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Max	60	65	65	64	64	64	66	66	68	68	67	66	61	59	57	54	53	52	52	
Exce	eedance		(	)			0			0			0		(	)	(	0	(	0	
										T2	_2F										
Floor	mPD	T22F37	T22F38	T22F39	T22F40	T22F41	T22F42	T22F43	T22F44	T22F45	T22F46	T22F47	T22F48	T22F49	T22F50	T22F51	T22F52	T22F53	T22F54	T22F55	
	41.35	52	53	55	56	58	59	59	60	61	61	63	63	63	63	62	61	61	60	60	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Max	52	53	55	56	58	59	59	60	61	61	63	63	63	63	62	61	61	60	60	
Exce	eedance	(	)		0		0		(	C	(	)	(	0		0			0		

iviitiya	ted case									Т2	TYP										
Floor	mPD	T2TYP01	T2TYP02	T2TYP03	T2TYP04	T2TYP05	T2TYP06	T2TYP07				T2TYP11	T2TYP12	T2TYP13	T2TYP14	T2TYP15	T2TYP16	T2TYP17			<sup> </sup>
3	44.35	66	67	67	66	62	64	64	64	64	64	64	64	63	63	63	63	63			<u> </u>
4	44.35	66	67	67	66	62	64	65	65	65	65	65	64	64	64	64	64	64			
5	50.35	66	67	67	66	62	64	65	65	65	65	65	65	65	64	64	64	64			
6	53.35	66	67	67	66	62	64	65	65	65	65	65	65	65	65	65	64	64			
7	56.35	67	67	67	66	62	64	65	65	65	65	65	65	65	65	65	64	64			
8	59.35	67	67	67	66	62	64	65	65	65	65	65	65	65	65	65	65	64			
9	62.35	68	67	67	66	63	64	65	65	65	65	65	65	65	65	65	65	65			
10	65.35	69	67	67	66	63	65	65	65	65	65	65	65	65	65	65	65	65			
11	68.35	69	68	67	66	64	65	65	65	65	65	65	65	65	65	65	65	65			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Ν	Max	69	68	67	66	64	65	65	65	65	65	65	65	65	65	65	65	65			[
Exce	edance		(	C			0			0		(	)	(	)		0				
											TYP										
Floor	mPD	T2TYP18	T2TYP19	T2TYP20	T2TYP21	T2TYP22	T2TYP23		T2TYP25	T2TYP26	T2TYP27	T2TYP28		T2TYP30	T2TYP31	T2TYP32	T2TYP33	T2TYP34	T2TYP35		
3	44.35	63	64	64	64	63	63	63	63	63	62	62	62	62	61	61	60	66	66		
4	47.35	64	65	64	64	64	64	64	64	63	63	63	63	62	62	61	61	66	66		L
5	50.35	64	66	65	65	65	65	65	64	64	64	64	63	63	62	62	61	67	67		I
6	53.35	64	66	66	66	66	66	65	65	65	65	65	64	64	63	63	62	67	67		l
7	56.35	64	67	67	67	67	67	66	66	66	66	65	65	65	64	64	63	68	67		I
8	59.35	64	68	68	68	68	68	67	67	67	67	67	66	66	65	65	64	68	68		<b> </b>
9	62.35	65	70	69 70	69 70	69	69 70	69	69	68	68	68	68	67	67	66	66	69 70	69 70		
10 11	65.35 68.35	65 65	70 70	70	70	70 70	70	70	70	70 70	70	69 70	69 70	69 70	68 70	68 70	67 69	70	70		<u> </u>
11	08.30	65 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
-	√lax	65	70	69	69	69	69	70	70	70	70	69	69	69	70	70	69	69	70		
	edance	05		)	07	09	07		70	70		07	07	09	0	70	09	07	70		L
EXCC	cuance			5			0					5			0			0			
										Т2	ТҮР										
Floor	mPD	T2TYP36	T2TYP37	T2TYP38	T2TYP39	T2TYP40	T2TYP41	T2TYP42	T2TYP43	_	-	T2TYP46	T2TYP47	T2TYP48	T2TYP49	T2TYP50	T2TYP51	T2TYP52	T2TYP53	T2TYP54	T2TYP55
3	44.35	66	65	65	61	67	68	67	67	67	68	67	69	69	67	66	61	60	58	55	54
4	47.35	66	66	65	61	67	68	67	67	67	68	68	69	69	68	67	62	61	59	56	54
5	50.35	67	66	66	62	67	68	67	67	68	68	68	69	69	68	67	62	61	59	57	55
6	53.35	67	67	66	63	68	68	67	67	68	68	68	69	69	68	67	62	61	60	58	56
7	56.35	67	67	67	64	68	69	68	68	68	69	68	69	69	68	67	63	62	60	58	57
8	59.35	68	68	67	64	68	69	68	68	68	69	69	70	69	68	67	63	62	61	59	58
9	62.35	69	68	68	66	69	69	69	69	69	69	69	70	70	69	68	64	63	62	60	60
10	65.35	70	70	69	67	70	70	69	69	70	70	70	70	70	69	69	65	64	63	62	62
11	68.35	70	70	70	69	70	70	70	70	70	70	70	70	70	70	70	66	66	65	64	64
	_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Max	70	70	69	69	70	70	69	69	70	70	70	70	70	70	70	66	66	65	64	64
Exce	edance		0				0			0			0			0		(	)	(	0

											T2_TYP											
Floor	mPD	T2TYP56	T2TYP57	T2TYP58	T2TYP59	T2TYP60	T2TYP61	T2TYP62	T2TYP63	T2TYP64	T2TYP65	T2TYP66	T2TYP67	T2TYP68	T2TYP69	T2TYP70	T2TYP71	T2TYP72	T2TYP73	T2TYP74	T2TYP75	T2TYP76
3	44.35	53	53	53	54	55	57	58	59	60	60	61	62	63	63	63	63	63	62	61	61	64
4	47.35	53	53	53	54	56	57	59	59	60	60	62	62	63	63	64	63	63	62	62	61	64
5	50.35	54	54	54	55	57	58	59	60	61	61	62	62	64	64	64	64	63	63	63	62	65
6	53.35	54	55	54	56	57	59	60	61	61	61	63	63	64	64	65	64	64	64	63	63	65
7	56.35	55	55	56	57	58	59	61	61	62	62	63	64	65	65	65	65	65	64	64	64	66
8	59.35	56	57	57	59	60	61	62	62	63	63	64	65	65	66	66	66	66	65	65	65	66
9	62.35	58	58	58	60	61	62	63	64	64	65	65	66	67	67	67	67	67	67	67	67	67
10	65.35	60	60	60	62	63	64	65	65	66	66	67	67	68	68	69	69	69	69	68	68	69
11	68.35	62	63	63	65	66	67	68	68	69	69	70	70	70	70	70	70	70	70	70	70	70
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Max	62	63	63	65	66	67	68	68	69	69	70	70	70	68	69	69	69	69	68	68	70
EXC	eedance		0		0		0		(	0	(	)		0	(	)		0			0	
										тэ	100											
Fleen		T010F01	T010F00	T010F00	T010F04	T010F0F	T010F0/	T010E07	T010F00	T212F09	12F				T040544		T04054/	T040547				
Floor	mPD	T212F01	T212F02	T212F03	T212F04 67	T212F05	T212F06	T212F07	T212F08				T010F10	T010F10					T010F10	T010F10		
	71.35	67	67	67			17	(7		-	T212F10	T212F11	T212F12	T212F13	T212F14	T212F15	T212F16	T212F17	T212F18	T212F19		
			0	-	÷.	67	67	67	67	70	70	70	70	70	70	70	70	70	70	70		
	Max	0	0	0	0	0	0	0	67 0	<b>70</b> 0	<b>70</b> 0	70 0	<b>70</b> 0	70 0	70 0	<b>70</b> 0	70 0	70 0	70 0	<b>70</b> 0		
Ever	Max	67	67	0 67	0 67	-	0 67	-	67	70 0 70	70 0 70	70	70	70 0 70	70 0 70	70	70	70 0 70	70 0 70	70		
Exce	Max eedance	67	-	0	0 67	0	0	0	67 0	<b>70</b> 0	70 0 70	70 0	<b>70</b> 0	70 0	70 0 70	<b>70</b> 0	70 0	70 0 70	70 0	<b>70</b> 0		
Exce		67	67	0 67	0 67	0	0 67	0	67 0	70 0 70	70 0 70	70 0	<b>70</b> 0	70 0 70	70 0 70	<b>70</b> 0	70 0	70 0 70	70 0 70	<b>70</b> 0		
	eedance	67	67 0	0 67 (	0 67	0 67	0 67 0	0 67	67 0 67	70 0 70 ( T2_	70 0 70 )	70 0 70	70 0 70	70 0 70	70 0 70 0	70 0 70	70 0 70	70 0 70	70 0 70 0	70 0 70		
Exce	mPD	67 T212F20	67 0 T212F21	0 67 ( T212F22	0 67 ) T212F23	0 67 T212F24	0 67 0 T212F25	0 67 T212F26	67 0 67 T212F27	70 0 70 ( T2_ T212F28	70 0 70 12F T212F29	70 0 70 T212F30	70 0 70 T212F31	70 0 70 T212F32	70 0 70 0 70 70 70	70 0 70 T212F34	70 0 70 T212F35	70 0 70 T212F36	70 0 70 0 T212F37	70 0 70 T212F38		
	eedance	67 T212F20 70	67 0 T212F21 70	0 67 ( T212F22 70	0 67 ) T212F23 70	0 67 T212F24 70	0 67 0 T212F25 70	0 67 T212F26 70	67 0 67 T212F27 70	70 0 70 ( T2_ T212F28 70	70 0 70 0 12F T212F29 70	70 0 70 70 T212F30 70	70 0 70 T212F31 70	70 0 70 T212F32 70	70 0 70 0 70 0 70 70	70 0 70 T212F34 70	70 0 70 T212F35 70	70 0 70 T212F36 70	70 0 70 0 T212F37 70	70 0 70 T212F38 70		
Floor	mPD 71.35	67 T212F20 70 0	67 0 T212F21 70 0	0 67 (7 T212F22 70 0	0 67 ) T212F23 70 0	0 67 T212F24 70 0	0 67 0 T212F25 70 0	0 67 T212F26 70 0	67 0 67 T212F27 70 0	70 0 70 ( T2_ T212F28 70 0	70 0 70 70 70 7212F29 70 0	70 0 70 70 70 70 0	70 0 70 70 70 7212F31 70 0	70 0 70 70 T212F32 70 0	70 0 70 0 70 0 70 0	70 0 70 70 T212F34 70 0	70 0 70 70 70 7212F35 70 0	70 0 70 70 70 7212F36 70 0	70           0           70           0	70 0 70 70 7212F38 70 0		
Floor	mPD	67 T212F20 70	67 0 T212F21 70	0 67 ( T212F22 70	0 67 ) T212F23 70	0 67 T212F24 70	0 67 0 T212F25 70	0 67 T212F26 70	67 0 67 T212F27 70	70 0 70 ( T2_ T212F28 70	70 0 70 0 12F T212F29 70	70 0 70 70 T212F30 70 0 70	70 0 70 T212F31 70	70 0 70 T212F32 70	70 0 70 0 70 0 70 70	70 0 70 T212F34 70	70 0 70 T212F35 70	70 0 70 T212F36 70	70 0 70 0 T212F37 70	70 0 70 T212F38 70		

Iviitiya	aleu case																				
										T2_	_12F										
Floor	mPD	T212F39	T212F40	T212F41	T212F42	T212F43	T212F44	T212F45	T212F46	T212F47	T212F48	T212F49	T212F50	T212F51	T212F52	T212F53	T212F54	T212F55	T212F56	T212F57	T212F58
	71.35	70	70	69	69	69	68	68	67	67	67	70	70	70	70	70	70	70	70	70	70
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Max	70	70	69	69	69	68	68	67	67	67	70	70	70	70	70	70	70	70	70	70
Exce	eedance		0		(	)	0		(	0		0		(	)	(	)		C		0

										T2_	_12F					
Floor	mPD	T212F59	T212F60	T212F61	T212F62	T212F63	T212F64	T212F65	T212F66							
	71.35	70	70	70	70	70	70	70	70							
		0	0	0	0	0	0	0	0							
	Max	70	70	70	70	70	70	70	70							
Exce	edance	(	)		0			0								

No. of Units:	297
No. of Units with Exceedance:	0
Compliance Level:	100%
Max. Noise Level:	70

Noted:

Noise level exceed stardand of 70 dB(A) Acoustic Balcony (Baffle Type)-KT Acoustic Window (Baffle Type)-NPE

Appendix 2.6 Proposed Overall Noise Mitigation Measures Schedule



## Schedule of Noise Mitigation Measures

NSR	Room	Floor	Noise Mitigation Measures
T2TYP19	MBR	10-11F	Acoustic Window (Baffle Type)-NPE
T2TYP20	BR1	10-11F	Acoustic Window (Baffle Type)-NPE
T2TYP21	LIV/DIN	10-11F	Acoustic Balcony (Baffle Type)-KT
T2TYP22	MBR	10-11F	Acoustic Window (Baffle Type)-NPE
T2TYP23	BR1	10-11F	Acoustic Window (Baffle Type)-NPE
T2TYP24	LIV/DIN	11F	Acoustic Balcony (Baffle Type)-KT
T2TYP25	BR1	11F	Acoustic Window (Baffle Type)-NPE
T2TYP26	LIV/DIN	11F	Acoustic Balcony (Baffle Type)-KT
T2TYP27	BR1	11F	Acoustic Window (Baffle Type)-NPE
T2TYP28	BR1	11F	Acoustic Window (Baffle Type)-NPE
T2TYP29	MBR	11F	Acoustic Window (Baffle Type)-NPE
T2TYP30	BR1	11F	Acoustic Window (Baffle Type)-NPE
T2TYP34	MBR	10-11F	Acoustic Window (Baffle Type)-NPE
T2TYP35	LIV/DIN	11F	Acoustic Balcony (Baffle Type)-KT
T2TYP36	BR1	11F	Acoustic Window (Baffle Type)-NPE
T2TYP37	LIV/DIN	11F	Acoustic Balcony (Baffle Type)-KT
T2TYP38	MBR	11F	Acoustic Window (Baffle Type)-NPE
T2TYP40	LIV/DIN	11F	Acoustic Balcony (Baffle Type)-KT
T2TYP41	MBR	11F	Acoustic Window (Baffle Type)-NPE
T2TYP42	BR1	11F	Acoustic Window (Baffle Type)-NPE
T2TYP43	MBR	11F	Acoustic Window (Baffle Type)-NPE
T2TYP44	LIV/DIN	11F	Acoustic Balcony (Baffle Type)-KT
T2TYP45	BR1	11F	Acoustic Window (Baffle Type)-NPE
T2TYP46	LIV/DIN	11F	Acoustic Balcony (Baffle Type)-KT
T2TYP47	MBR	10-11F	Acoustic Window (Baffle Type)-NPE
T2TYP48	BR1	11F	Acoustic Window (Baffle Type)-NPE
T2TYP69	LIV/DIN	11F	Acoustic Balcony (Baffle Type)-KT
T2TYP70	MBR	11F	Acoustic Window (Baffle Type)-NPE
T2TYP71	MBR	11F	Acoustic Window (Baffle Type)-NPE
T2TYP72	LIV/DIN	11F	Acoustic Balcony (Baffle Type)-KT
T2TYP73	BR1	11F	Acoustic Window (Baffle Type)-NPE
T2TYP74	LIV/DIN	11F	Acoustic Balcony (Baffle Type)-KT
T2TYP75	MBR	11F	Acoustic Window (Baffle Type)-NPE
T212F09	MBR	12F	Acoustic Window (Baffle Type)-NPE

T212F10	BR1	12F	Acoustic Window (Baffle Type)-NPE
T212F11	LIV/DIN	12F	Acoustic Balcony (Baffle Type)-KT
T212F12	MBR	12F	Acoustic Window (Baffle Type)-NPE
T212F13	BR1	12F	Acoustic Window (Baffle Type)-NPE
T212F14	LIV/DIN	12F	Acoustic Balcony (Baffle Type)-KT
T212F15	BR1	12F	Acoustic Window (Baffle Type)-NPE
T212F16	LIV/DIN	12F	Acoustic Balcony (Baffle Type)-KT
T212F10	BR1	12F	Acoustic Window (Baffle Type)-NPE
T212F18	BR1	12F	Acoustic Window (Baffle Type)-NPE
T212F19	MBR	12F	Acoustic Window (Baffle Type)-NPE
T212F20	BR1	12F	Acoustic Window (Baffle Type)-NPE
T212F21	LIV/DIN	12F	Acoustic Balcony (Baffle Type)-KT
T212F22	MBR	12F	Acoustic Window (Baffle Type)-NPE
T212F23	BR1	12F	Acoustic Window (Baffle Type)-NPE
T212F24	MBR	12F	Acoustic Window (Baffle Type)-NPE
T212F25	LIV/DIN	12F	Acoustic Balcony (Baffle Type)-KT
T212F26	BR1	12F	Acoustic Window (Baffle Type)-NPE
T212F27	LIV/DIN	12F	Acoustic Balcony (Baffle Type)-KT
T212F28	MBR	12F	Acoustic Window (Baffle Type)-NPE
T212F29	MBR	12F	Acoustic Window (Baffle Type)-NPE
T212F30	LIV/DIN	12F	Acoustic Balcony (Baffle Type)-KT
T212F31	MBR	12F	Acoustic Window (Baffle Type)-NPE
T212F32	BR1	12F	Acoustic Window (Baffle Type)-NPE
T212F33	MBR	12F	Acoustic Window (Baffle Type)-NPE
T212F34	LIV/DIN	12F	Acoustic Balcony (Baffle Type)-KT
T212F35	BR1	12F	Acoustic Window (Baffle Type)-NPE
T212F36	LIV/DIN	12F	Acoustic Balcony (Baffle Type)-KT
T212F37	MBR	12F	Acoustic Window (Baffle Type)-NPE
T212F38	BR1	12F	Acoustic Window (Baffle Type)-NPE
T212F39	BR1	12F	Acoustic Window (Baffle Type)-NPE
T212F40	MBR	12F	Acoustic Window (Baffle Type)-NPE
T212F50	LIV/DIN	12F	Acoustic Balcony (Baffle Type)-KT
T212F50	MBR	12F	Acoustic Window (Baffle Type)-NPE
T212F51	LIV/DIN		
		12F	Acoustic Balcony (Baffle Type)-KT
T212F53	BR1	12F	Acoustic Window (Baffle Type)-NPE
T212F54	LIV/DIN	12F	Acoustic Balcony (Baffle Type)-KT
T212F55	MBR	12F	Acoustic Window (Baffle Type)-NPE
T212F56	LIV/DIN	12F	Acoustic Balcony (Baffle Type)-KT
T212F57	MBR	12F	Acoustic Window (Baffle Type)-NPE
T212F58	LIV/DIN	12F	Acoustic Balcony (Baffle Type)-KT
T212F59	LIV/DIN	12F	Acoustic Balcony (Baffle Type)-KT
T212F60	MBR	12F	Acoustic Window (Baffle Type)-NPE
T212F61	MBR	12F	Acoustic Window (Baffle Type)-NPE
T212F62	LIV/DIN	12F	Acoustic Balcony (Baffle Type)-KT
T212F63	BR1	12F	Acoustic Window (Baffle Type)-NPE
T212F64	LIV/DIN	12F	Acoustic Balcony (Baffle Type)-KT
T212F65			
121200	MBR	12F	Acoustic Window (Baffle Type)-NPE

T212F66 BR1 12F Acoustic Window (Baffle Type)-NPE
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