Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities Various Lots in D.D. 11 and Adjoining Government Land, Fung Yuen, Tai Po, New Territories S.12A Application for Amendment of Plan

Appendix 4

Noise Impact Assessment

Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D. 11 and Adjoining Government Land, Fung Yuen, Tai Po, New Territories

Noise Impact Assessment

Prepared for: Fantastic State Limited

Prepared by: Westwood Hong & Associates Limited

Report No.: **22608-N1 Rev A**

Date: 26 September 2025

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Proposed Residential Development(s)
with Retail, Public Vehicle Park and Social Welfare Facilities at
Various Lots in D.D.11 and
Adjoining Government Land, Fung Yuen, Tai Po, New Territories
Environmental Noise Impact Assessment

AIMS

To assess noise impacts on the proposed residential development(s) with retail, public vehicle park and social welfare facilities (the "proposed Development") at Fung Yuen Road, Tai Po, N.T.

To recommend noise mitigation measures for the proposed Development, if necessary; and to assess the suitability of the proposed building layout and the recommended noise mitigation measures according to relevant requirements in the Hong Kong Planning Standards & Guidelines (HKPSG).

SUMMARY

Noise assessments have been conducted to predict the noise impacts at the proposed Development.

For road traffic noise, the predicted maximum road traffic noise level of the residential flats in Area (A) and the social welfare facilities in Area (B) will be 73dB(A) and 80dB(A) respectively, exceeding the stipulated 70dB(A) noise criterion. Therefore, noise mitigation measures are required.

With the provision of Acoustic Window (baffle type), the assessment results indicate that the predicted road traffic noise levels at all the residential flats in Area (A) and the social welfare facilities in Area (B) (i.e. 100%) will comply with the 70dB(A) noise criterion.

For the fixed noise sources impact, the assessment results indicate that all the residential flats in Area (A) and the social welfare facilities in Area (B) will be within the stipulated noise limits.

1. INTRODUCTION

- 1.1 Westwood Hong & Associates Ltd (WHA) was commissioned to conduct an environmental noise impact assessment for the proposed residential development(s) with retail, public vehicle park and social welfare facilities (the "proposed Development") at various lots in DD11 and adjoining government land, Fung Yuen, Tai Po. Figure 1 shows the location of the proposed Development.
- 1.2 This environmental noise impact assessment report supports the Rezoning Application for the proposed Development.
- 1.3 This S.12A application is to seek the Town Planning Board's approval for the proposed amendments to the Draft Tai Po Outline Zoning Plan No. S/TP/31 ("the OZP") for the proposed Development at various lots in D.D. 11 and adjoining Government Land in Fung Yuen, Tai Po, New Territories ("the Development Site"). The Development Site consists of two areas: Area (A) and Area (B).
- 1.4 The proposed Development will include residential development(s) with supporting retail and public vehicle park facilities in Area (A); and a social welfare complex comprising a Residential Care Home for the Elderly ("RCHE") and a Day Care Unit ("DCU") for the Elderly in Area (B).
- 1.5 The Applicant submitted an s.12A Planning Application (No. Y/TP/38) to TPB in 2022 to rezone the current western portion of the "CDA(1)" zone to "R(B)13" zone to enable a proposed residential development with retail facilities and public vehicle park, and a relaxation of the maximum building height restriction of the "G/IC" zone from 2 storeys to 8 storeys to the south of the "CDA(1)" zone for a proposed 8-storey Social Welfare Complex. While tremendous effort has been put to address and resolve the comments from Planning Department and relevant Government departments during circulation of the application, it is noted that majority of the Government departments have no further adverse comment on the technical assessments attached to Application No. Y/TP/38 since almost 3 years efforts being put by the Applicant & consultancy team.
- 1.6 Taking into account comments received from relevant Government departments and in order to achieve a wholistic planning scheme for the entire "CDA(1)" zone, the Applicant has put forward to include the CDA(1) Future Phase proposed in Application No. Y/TP/38 into the Development Site of this Application. The proposed Development Proposal in this Application is largely the same as that under Application No. Y/TP/38. The Development Site of this Application is solely formed

by the previous development sites, i.e. Area (A), Area(B) and the "CDA(1)" Future Phase. The total GFA, PR, building height, no. of units and estimated population of the Development Proposal is almost exactly the same as that under Application No. Y/TP/38.

- 1.7 This report has been prepared based on the architectural drawings provided by the Client (Appendix 1).
- 1.8 This report comprises the following assessments:-
 - Road traffic noise affecting the proposed Development
 - Fixed noise sources affecting the proposed Development
 - Fixed noise sources from the proposed Development

2. SITE LOCATION & BUILDING LAYOUT

Site Location

2.1 The Development Site comprising Area (A) and Area (B) is adjoining Fung Yuen Road to the east. Ting Kok Road is located to the south (Figure 1). The residential development Mont Vert is located to the north.

Development Layout

2.2 The proposed Development comprises retail and public vehicle park and 7 residential blocks with 24 – 30 storeys in height on Area (A) and a Residential Care Home for the Elderly (RCHE) cum Day Care Unit (DCU) with 8 storeys in height on Area (B). The architectural drawings are provided in Appendix 1. The development parameters are summarised in Table 2.1 below.

Table 2.1 Development Parameters of the Proposed Development

Table 2.1 Development Farameters of the Frobosed Development				
	Parameters			
Zoning	"Comprehensive Development Area" and "Government, Institution or Community" on Draft Tai Po Outline Zoning Plan No. S/TP/31			
Site Area	Area (A): 31,854 m ² Area (B): 3,347 m ²			
Number of Residential Units	1,988			
Number of Residential Storeys	24 – 30 storeys			
Height of Residential Towers	85 – 102mPD			
Use	 Residential blocks Retail and public vehicle park facilities Social welfare complex 			
Completion Year	2030			

2.3 The clubhouse would be equipped with central air-conditioning and would not rely on opened windows for ventilation. No adverse noise impact is anticipated.

3. NOISE CRITERIA

Road Traffic Noise Criterion

- 3.1 For the residential units, according to the HKPSG^[1], road traffic noise criterion for domestic premises is 70dB(A) L10(1 hour) at the external facades for the hour having the peak traffic flow. This noise criterion applies to the domestic premises which rely on opened windows for ventilation.
- 3.2 For the RCHE, the road traffic noise criterion for the diagnostic rooms and wards of the RCHE are 55 dB(A) and the normal domestic use is 70 dB(A) at the external facades for the hour having the peak traffic flow.
- 3.3 For the DCU, according to the HKPSG, the educational institutions including kindergartens, child care centre and all others where unaided voice communication is required, the road traffic noise criterion is 65dB(A) at the external facades for the hour having the peak traffic flow. The noise criterion applied to the uses which rely on opened windows for ventilation.

Noise Criteria for Fixed Noise Sources

- 3.4 For fixed noise sources, the criterion is determined based on the statutory Acceptable Noise Levels (ANL) stipulated in "Technical Memorandum for the Assessment of Noise from Places other than Domestic Premises, Public Places or Construction Sites"^[2] (IND TM). The HKPSG also states that in order to plan for a better environment, all planned fixed noise sources should be so located and designed that when assessed in accordance with the TM, the level of the intruding noise at the façade of the nearest sensitive use should be at least 5dB(A) below the appropriate ANL shown in Table 2 of the IND TM or, in the case of the background being 5dB(A) lower than the ANL, should not be higher than the background.
- 3.5 The Development Site is located in an isolated high-rise development area, and part of the Development Site is affected by an Influencing Factor (IF) (i.e. Tai Po Industrial Estate). According to the IND TM, any NSR shall be assigned an ASR of "C" if it is within 100m of a zone designated as "Industrial" or "Industrial Estate" on a statutory Outline Zoning Plan, or an ASR of "B" if it is between 100m and 250m from such a zone. Since the northern part of the Development Site is located more than 250m away from the Tai Po Industrial Estate, for conservative, an Area Sensitivity Rating of "A" would be applied to all the NSRs of the proposed Development for the fixed noise assessment. The ANLs are shown in Table 3.1.

Table 3.1 ANLs for Day, Evening and Night Time Periods

	ANLs dB(A), Leq (30 mins)		
Time Period	ASR "A"	ASR "B"	ASR "C"
Day (0700 to 1900 hours) and evening (1900 to 2300 hours)	60	65	70
Night (2300 to 0700 hours)	50	55	60

Note: In any event, the ASR and the ANLs adopted in this report are only indicative and they are used for assessment only. It should be noted that noise from fixed noise sources is controlled under section 13 of the Noise Control Ordinance. Therefore, the ASRs and ANLs determined in this report shall not prejudice the Noise Control Authority's discretion to determine noise impact due to fixed noise sources on the basis of prevailing legislation and practices being in force, and taking account of contemporary conditions/ situations of adjoining land uses. The assessment of noise impacts due to fixed noise sources in this report shall not bind the Noise Control Authority in the context of law enforcement against any of the noise from fixed noise sources being assessed.

3.6 As mentioned in Section 3.4, the noise criteria for the noise from planned fixed sources are ANL – 5dB(A) or the prevailing background noise levels, whichever is lower. Site measurements were made at the nearby noise sensitive receiver, the prevailing background noise levels are summarised in Table 3.2 below. The measurement location is provided in Figure 2.

Table 3.2 Noise Measurement Results

Location	Noise Sensitive Receiver	Measurement Result, dB(A), L90 (1 hour), Façade
Loc 1	Kam Fung Terrace	Daytime: 57 – 58 Night-time: 46 – 48

3.7 The prevailing background noise levels of the identified noise sensitive receiver were higher than ANL – 5dB(A). Therefore, the ANL – 5dB(A) are used as the criteria for noise from planned fixed sources (i.e. 55dB(A) for daytime, and 45dB(A) for night-time).

4. SITE SURVEYS

Dates and Time

- 4.1 Site surveys were conducted on the following dates and time:-
 - 7 April 2025 (10:00am 6:00pm)
 - 23 June 2022 (10:00am 6:00pm)
 - 8 October 2021 (2:00pm 6:00pm)
 - 10 March 2020 (6:00am 2:00pm)
 - 15 October 2019 (3:00pm 6:00pm; 10:00pm 00:30am)
 - 11 July 2018 (8:00pm 11:00pm)
 - 6 July 2018 (2:30pm 6:00pm)

Instrumentation

4.2 The instruments used by WHA for the surveys comply with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1), as listed in Table 4.1 below.

Table 4.1 Instruments Used for the Noise Surveys

Manufacturer	Туре
Ono Sokki	Precision Integrating Sound Level Meter
Ono Sokki	Foam Windshield
Bruel and Kjaer	Noise Calibrator Type 4231

- 4.3 The sound level meter was calibrated before use and further checks on completion of the survey, and confirmed that the calibration levels from before and after the noise measurement agree to within 1.0dB.
- 4.4 The site measurements including measurement equipment, calibration procedure, measurement methodology and weather conditions were conducted in accordance with the IND TM.

Fixed Noise Sources in the Vicinity

4.5 The study area for the fixed noise sources impact assessment is 300m. The identified potential fixed noise sources are summarised in Table 4.2 below and given in Figure 3. Detailed discussion on the noise impact from these fixed noise sources is given in Section 7. The photos of the identified potential fixed noise sources are provided in Appendix 5.

Table 4.2 Identified Potential Fixed Noise Sources

Source ID	Site	Identified Potential Fixed Noise Sources Identified Industrial Activities [1]		Operating Hours [2]	
A	Tin Sam Sewage Pumping Station	No industrial noise was observed during site surveys.	On ground level	24 hours	
В	Cheuk Shing Vehicle Repair Workshop	The workshop was housed within a permanent steel cover. The workshop had one staff member only. In 2022 site survey, the major activity of the workshop was to provide car repairing service. Site surveys revealed that the major noise was the air compressor noise, lasting about 10 seconds per 2 minutes, and also some insignificant operation noise from taking up / putting down the hand tools. All the operations were taken place within the steel cover. Site inspections for the workshop were conducted for 1 hour, no noisy activities were observed. The operation noise was only audible at the entrance of the workshop. Noise from the workshop was inaudible at Fung Yuen Road. The noise measurements were conducted at 5m distances from the noise sources, detailed noise measurement results are provided in Appendix 6. In 2025 site survey, it was used as parking only, no industrial noise was observed during site survey.	On ground level, under the steel cover	9:00am – 6:00pm	
С	Recycling Yard	It is a recycling yard of steel material. A crane was observed inside the yard for loading and unloading. A lorry was also observed but for parking only without operation. The noise measurements were conducted at 5m distances from the noise sources, detailed noise measurement results are provided in Appendix 6. The industrial activities were the same in 2025 site survey.	On ground level	9:00am – 6:00pm	
D	Car Repair Workshop at Ting Kok Road Car Road Car Road Car Road Car Repair Workshop at Ting Kok Road Car Road		On ground level, under the steel cover	9:00am – 6:00pm	

E	Site Office	A temporary structure for site office. No industrial noise was observed during site surveys.	On ground level	9:00am – 6:00pm
F	KMB Bus Depot	Site surveys revealed that the depot was used for parking, petrol filling and fixing the advertisement on the bus. Site observations were made for the depot for 3 hours. The general operations of the depot include the buses returning to the bus depot and parking. Then, the bus driver took a rest. The bus would manoeuvre slowly to petrol filling before leaving the depot. The major noisy activities were buses manoeuvring at ingress / egress and inside the bus depot. As advised by the manager of the bus depot, the depot would not have any maintenance work and the operation hours would be about 6:00am to midnight. The findings were remained valid, as observed on the 2025 site survey.	On ground level	6:00am – 12:00am
G	MTRC Tai Po Bus Station	On ground level	9:00am – 6:00pm	
Н	Lee Kum Kee	On ground level	9:00am – 6:00pm	
J	Hopewell Slipform	The factory of slipform. In 2022 site survey, no industrial noise was observed during site surveys, only a crane was observed. In 2025, no plant was observed, no industrial noise was observed also.	On ground level	9:00am – 6:00pm
К	Techno Enterprise Limited	No industrial noise was observed during site surveys. 2 cooling towers at 1/F platform were observed.	On ground level	9:00am – 6:00pm
L	Jackel Porter Co. Ltd.	ter Co. No industrial noise was observed during site		9:00am – 6:00pm
M	Luen Tai Hong	6 cooling towers were identified at the rooftop based on desktop study. No industrial noise was observed during site survey.		9:00am – 6:00pm
N	OPC Manufactur ing Ltd. In 2022, 2 cooling towers were observed at the rooftop and 1 cooling tower was located at the ground level. In 2025, the factory was closed. All the cooling towers were removed.		On ground level	9:00am – 6:00pm
P	Vantage Technolog y Ltd.	No industrial noise was observed during site		9:00am – 6:00pm

Q	Chiaphua Industries	3 cooling towers were identified at the rooftop based on desktop study. No industrial noise was observed during site survey.	On ground level	9:00am – 6:00pm
R	Hitachi Chemical Electronic Materials (Hong Kong) Ltd.	3 cooling towers were observed at the rooftop.	On ground level	9:00am – 6:00pm

Noted:

- [1] The operation of the identified fixed noise sources were observed during site surveys and confirmed with the staffs.
- [2] The operating hours of the identified fixed noise sources were advised from the staffs of each site, and confirmed by night-time site survey.
- 4.6 Other than the identified fixed noise sources in Table 4.2, site surveys have confirmed that there are no other major fixed noise sources in the vicinity of the Development Site. All the fixed noise sources within the assessment area are identified and considered in the assessment.

5. ROAD TRAFFIC NOISE IMPACT ASSESSMENT

5.1 The noise prediction was conducted by employing the WS Atkins RoadNoise 2000^[3] computer software.

Traffic Forecast

- 5.2 The anticipated occupation year of the proposed Development is 2030, the maximum traffic in 15 years after occupation of the proposed Development (i.e. 2045) has been adopted for the purpose of the road traffic noise assessment.
- 5.3 The traffic forecast for Year 2045 was provided by the Traffic Consultant (CTA Consultants Limited). The definition of heavy vehicles in the U.K. Department of Transport's "Calculation of Road Traffic Noise" (CRTN)^[4] has been adopted. The traffic flow data adopted in the noise prediction model is provided in Appendix 2. Review of the data indicates that the AM peak is in general higher than the PM peak. Therefore, the set of AM peak traffic data is employed for the assessment, representing the worst-case scenario. The computer plot of the noise prediction model is shown in Figure 4.

Noise Assessment Points for Road Traffic Noise Assessment

- All ventilation openings to rooms of noise sensitive use (i.e. living and dining rooms, bedrooms / master bedrooms) are assigned with noise assessment points. The location of assessment points are illustrated in Figures A3-1 to A3-3 of Appendix 3. The clubhouse will be equipped with central air-conditioning and would not rely on opened windows for ventilation. No adverse noise impact is anticipated.
- 5.5 The assessment points are taken at the height of 1.2m above each residential floor and 1m away from the façade of openable windows of the noise sensitive rooms.

Methodology of Road Traffic Noise Impact Assessment

- 5.6 The road traffic noise levels at the proposed Development were predicted, based on the predicted traffic flows in Year 2045 and in accordance with the procedures given in the CRTN. The predicted road traffic noise levels at the building facades include a 2.5dB(A) facade reflection and correction factors for gradient, distance, view angle, barriers and road surface material.
- 5.7 The study area of the road traffic noise assessment would be 300m from the site boundary. The roads within the study area are included in the assessment.

As advised by the Highways Department, the road surface types of the roads in the prediction model are "bitumen" and "concrete" (Appendix 2).

Predicted Road Traffic Noise Levels (Base Scenario)

5.9 The predicted road traffic noise levels are presented in Appendix 2 for all Noise Sensitive Receivers (NSRs) of the proposed Development. The noise compliance rate of the base scenario will be 91% (i.e. 188 residential units have noise exceedance) with maximum 73dB(A). Therefore, noise mitigation measures are required.

Predicted Road Traffic Noise Levels (With Noise Mitigation Measures)

- 5.10 In order to achieve noise compliance, all noise sensitive rooms with noise exceedance will be provided with Acoustic Window (Baffle Type). The location of the Acoustic Window (Baffle Type) is provided in Figures 5a 5c. The Acoustic Window (Baffle Type) will be designed by making reference to ProPECC PN5/23 "Application of Innovative Noise Mitigation Designs in Planning Private Residential Developments against Road Traffic Noise Impact". With the provision of these noise mitigation measures, all residential units of the proposed Development (i.e. 100%) can comply with the stipulated 70dB(A) noise limit. Details of the predicted noise levels are given in Appendix 4.
- 5.11 Noise mitigation measures for the proposed Development are given in Section 6.

6. NOISE MITIGATION MEASURES

- 6.1 Practicable noise mitigation measures have been considered and some of those measures have been incorporated in the proposed Development, as mentioned in the following sections.
- 6.2 Noise mitigating designs have been investigated and considered in the design stage, including building setback and building block orientation.
- 6.3 The Schedule of Noise Mitigation Measures to summarise all the noise mitigation measures in the proposed Development is provided in Appendix 9.

Acoustic Window (Baffle Type)

- 6.4 Acoustic Window (Baffle Type) will be adopted for the proposed Development as noise mitigation measure. The Acoustic Window (Baffle Type) comprises of two layers of window. An additional window layer is introduced to the conventional side-hung window in a staggering position. The outer window is a conventional push-pull type window whilst the inner one is a sliding window. By properly positioning the openings of inner window with the outer window, it can reduce noise entering indoors while allowing air flow into the room via the air gap between two layers of windows.
- 6.5 The Acoustic Window (Baffle Type) in the proposed Development will be designed by making reference to ProPECC PN5/23 "Application of Innovative Noise Mitigation Designs in Planning Private Residential Developments against Road Traffic Noise Impact". Additional Sound Absorptive Materials are required to be applied at top and outer opening side of mullion of the Acoustic Window (Baffle Type) for certain locations.
- 6.6 The locations of Acoustic Window (Baffle Type) with or without Sound Absorptive Materials are illustrated in Figures 5a 5c. The detailed design of the Acoustic Window (Baffle Type) and the justification of noise performance are shown in Appendix 8. The Project Architect confirmed that the design of Acoustic Window (Baffle Type) could meet the natural ventilation requirement under Building (Planning) Regulations.

7. NOISE IMPACT ASSESSMENT FOR FIXED NOISE SOURCES

7.1 The identified fixed noise sources in the vicinity were summarised in Table 4.2.

Noise Assessment Points for Fixed Noise Sources Assessment

- 7.2 With consideration of the fixed noise sources locations, representative assessment points with most affected (with shortest distance) are assigned for the noise assessment. The location of the assessment points are illustrated in Appendix 6.
- 7.3 The assessment points are taken at the height of 1.2m above each residential floor and 1m away from the façade of openable windows in the noise sensitive rooms.

SWLs Adopted in the Fixed Noise Sources Calculation

- 7.4 On-site noise measurements were made to investigate the existing fixed noise sources. Sound Pressure Levels (SPLs) obtained during survey were then converted to SWLs with reference to basic acoustic principle. The SPLs at NSRs were calculated based on the distance attenuation, tonality correction, impulsiveness correction, intermittency correction, barrier correction and façade correction. No tonality correction, impulsiveness correction, intermittency correction is applied to the fixed noise sources based on site observation and measurements.
- 7.5 Site surveys were conducted from years 2018 to 2025. According to the recent site survey findings, some fixed noise sources were not in operation during site survey. For conservative purpose, the SWLs of the fixed noise sources adopted in the previous approved NIA report is adopted in this assessment. Some fixed noise sources were removed and no longer exists as observed in recent site survey, which would not be considered in this assessment.
- 7.6 The identified cooling towers are located at the rooftop and forklift is located within the private lot, which are not accessible at the time of the surveys. Therefore, the SWL of forklift is referenced to BS5228. The SWLs of cooling towers are referenced to the product catalogue with similar diameter. For conservatism, the corrections for deterioration and tonality are considered. The referenced catalogues are provided in Appendix 5.
- 7.7 The locations of fixed noise sources are shown in Figure 3. The SWLs of the fixed noise sources adopted in the assessment are summarised in Table 7.1. Detailed calculations for SWLs are provided in Appendix 5.

Table 7.1 SWLs of Identified Fixed Noise Sources

Table 7	Table 7.1 SWLs of Identified Fixed Noise Sources							
Source ID	Name	Fixed Noise Sources	Nos.	SWL of each plant, dB(A)	Operation hours	Reference		
В	Cheuk Shing Vehicle Repair Workshop	Air compressor noise	1	94	Day and evening time periods	Site measurements		
C	Recycling yard	Loading and unloading by crane	1	95	Day and evening time periods	Site measurements		
D	Car Repair Workshop at Ting Kok Road	Electric screwdriver noise	1	96	Day and evening time periods	Site measurements		
F	KMB Bus Depot	Buses manoeuvring at ingress / egress and inside the Bus Depot	1	90	Day, evening and night-time periods	Site measurements		
H-1	Lee Kum Kee	Cooling towers at rooftop	4	93	Day and evening time periods	Product catalogue		
H-2	Lee Kuili Kee	Forklift	1	104	Day and evening time periods	BS5228		
J	Hopewell Slipform	Crane	1	105	Day and evening time periods	TM		
K	Techno Enterprise Limited	Cooling towers	2	93	Day and evening time periods	Product catalogue		
M	Luen Tai Hong	Cooling towers	6	93	Day and evening time periods	Product catalogue		
Q	Chiaphua Industries	Cooling towers	3	93	Day and evening time periods	Product catalogue		
R	Hitachi Chemical Electronic Materials (Hong Kong) Ltd.	Cooling towers	3	93	Day and evening time periods	Product catalogue		

Methodology of Noise Impact Assessment from Fixed Noise Sources

7.8 For the fixed noise sources of cooling towers, the exact locations will be considered in the calculation. For other noise sources, the noise emission points are placed at the location where the noise sources were being observed during site surveys.

- 7.9 Although it is unlikely that all the identified fixed noise sources will be in operation simultaneously, to be conservative, it has been assumed that all the identified fixed noise sources are in operation at the same time, which also represents a worst-case scenario. Fixed noise sources are assumed to operate continuously instead of occasionally as observed on-site and all fixed noise sources are regarded as point source.
- 7.10 Site inspections confirmed that the identified fixed noise sources have no operation during night-time period except for the KMB Bus Depot. Therefore, only KMB bus depot would be considered in the assessment during night-time period.
- 7.11 For conservatism, no barrier correction would be considered in the assessment.
- 7.12 For the assessment of noise from fixed noise sources, the noise level at NSR was predicted using the standard acoustic principles:

Predicted Noise Level = Sound Power Level of fixed noise source - Distance Attenuation + Façade Correction

Where Distance Attenuation = $20 \log D + 8$ [where D is the distance in meters] Façade Correction = 3dB(A)

Predicted Noise Levels from Fixed Noise Sources (Base Scenario)

7.13 The predicted façade noise levels from fixed noise sources at the representative NSRs are in the range of 55 – 56 dB(A) Leq(30min) during day and evening time periods, and 32 – 33dB(A) Leq(30min) during night-time period. These predicted noise levels are within the stipulated noise limits as mentioned in Section 3. The summary of the predicted noise levels are summarsied in Table 7.2 and given in Appendix 6.

Table 7.2 Summary of Noise Results for Fixed Noise Sources

NSR	Predicted Façade Noise Levels		Comply or not
11014	Day and Evening, dB(A)	Night-time, dB(A)	Comply of not
NSR 116	56	32	Comply
NSR 216	56	33	Comply
NSR 223	56	33	Comply
NSR 318	55	33	Comply

Fixed Noise Sources in the Proposed Development

- 7.14 Refer to the Section 3.7, the prevailing background noise levels of the identified noise sensitive receiver were higher than ANL 5dB(A). Therefore, the ANL 5dB(A) are used as the criteria for noise from planned fixed sources (i.e. 55dB(A) for daytime, and 45dB(A) for night-time).
- 7.15 For the design of plant noise control treatment, the noise emanating from plantrooms and from the fresh air intake and discharge air grilles shall be controlled to 45dB(A) Leq(30min), measured at 1m from the nearest NSRs. Provisions shall be made to control the plant noise by suitable silencers, acoustic louvres, vibration isolators and enclosures in order to meet the noise requirement in the HKPSG.

8. NOISE IMPACTS TO THE RCHE AND DCU

- 8.1 A 8-storey of RCHE and DCU will be located in Area (B) of the proposed Development, which will subject to the road traffic noise and fixed noise sources.
- 8.2 As the typical layout of the RCHE and DCU are not available at this stage, representative noise assessment points are assigned to all façade of the building to have preliminary noise results.

Road Traffic Noise Impact for RCHE and DCU

- 8.3 The predicted road traffic noise levels for the RCHE and DCU will be in the range of 66 80dB(A), which exceeded the noise criteria (i.e. 70dB(A)). The road traffic noise results are presented in Appendix 8.
- 8.4 The DCU would be equipped with central air-conditioning and would not rely on opened windows for ventilation. No adverse noise impact is anticipated.
- 8.5 The southern façade facing Ting Kok Road will have significant noise exceedance, fixed glazing and no noise sensitive rooms of RCHE will be adopted at the southern façade. According to the ProPECC PN5/23, the Acoustic Window (Baffle Type) together with the sound absorptive material will have 7.5dB(A) noise reduction. With the provision of this acoustic window and fixed glazing, all the NSRs of the RCHE and DCU will comply with the noise limit (Appendix 7). The requirements such as the room size, dimensions of the acoustic window (baffle type), etc., in the PN5/23 will be fully complied with in order to apply the relative noise reduction stated in the PN.
- 8.6 As the typical layout of the RCHE and DCU is not available at this stage, the noise mitigation measures and the noise performance would be reviewed during the detailed building design stage in order to achieve noise limits in HKPSG. The wards and diagnostic room will be designed to have air-conditioning without openable window for ventilation, or designed to locate at the north or west façade.

Fixed Noise Impact for RCHE and DCU

8.7 The predicted façade noise levels from fixed noise sources at the representative NSR on RCHE and DCU is 58 dB(A) Leq(30min) during day and evening time periods, and 35dB(A) Leq(30min) during night-time period. These predicted noise levels are within the stipulated noise limits as mentioned in Section 3.

Fixed Noise Sources from RCHE and DCU

- 8.8 Refer to the Section 3.7, the prevailing background noise levels of the identified noise sensitive receiver were higher than ANL 5dB(A). Therefore, the ANL 5dB(A) are used as the criteria for noise from planned fixed sources (i.e. 55dB(A) for daytime, and 45dB(A) for night-time).
- 8.9 The planning fixed noise sources included the air conditioning system of the RCHE and DCU, such as chiller and cooling tower. The acoustic performance of the fixed noise sources would be reviewed during detailed design stage. If found necessary, acoustic treatments such as provision of acoustic silencers and acoustic enclosures shall be proposed in order to comply with the relevant noise requirements in the HKPSG.

9. CONSTRUCTION NOISE IMPACT

- 9.1 The major construction activities of the Development site include soil excavation, site formation, backfilling, piling and superstructure, etc. Construction noise will be generated by the use of Powered Mechanical Equipment (PME) such as excavator and dump truck, etc. during the construction work. Given that the details of the construction programme and plant inventory are not available at this stage, a qualitative assessment was then conducted.
- 9.2 With the implementation of standard practices recommended in the ProPECC PN 1/24 "Minimizing Noise from Construction Activities", adverse construction noise impact is normally not anticipated. The recommended mitigation measures are summarized below.

Standard Practice for Construction Phase

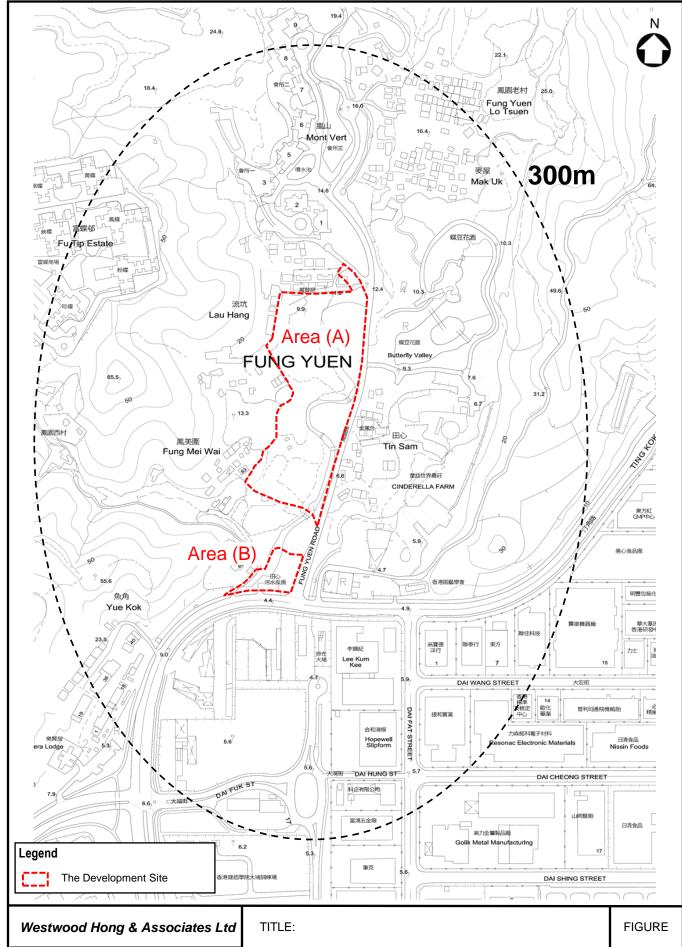
- 9.3 The recommended practices below would be considered in all worksites as good practices to limit noise emissions at the source include:-
 - Good site practices to limit noise emissions at the source;
 - Use of quality powered mechanical equipment (QPME);
 - Use of site hoarding as noise barrier to screen noise at ground level of NSRs;
 - Use of temporary noise barriers, noise enclosure and acoustic mat to screen noise from relatively static PMEs;
 - Scheduling of construction works outside school examination periods in critical area; and
 - Alternative use of plant items within one worksite, wherever practicable.
- 9.4 The above recommended practices would need to be implemented in worksites as good practices where appropriate. Reference shall also be made to EPD's recommended pollution control clauses for construction contracts.

10. CONCLUSION

- 10.1 Noise assessments have been conducted to predict the noise impacts at the proposed Development.
- 10.2 For road traffic noise, the predicted maximum road traffic noise level of the residential flats in Area (A) and the social welfare facilities in Area (B) will be 73dB(A) and 80dB(A) respectively, exceeding the stipulated 70dB(A) noise criterion. Therefore, noise mitigation measures are required.
- 10.3 With the provision of Acoustic Window (baffle type), the assessment results indicate that the predicted road traffic noise levels at all the residential flats in Area (A) and the social welfare facilities in Area (B) (i.e. 100%) will comply with the 70dB(A) noise criterion.
- 10.4 For the fixed noise sources impact, the assessment results indicate that all the residential flats in Area (A) and the social welfare facilities in Area (B) will be within the stipulated noise limits.
- 10.5 A noise impact assessment will be conducted in the detailed design stage to address the potential noise impact for the proposed Development and recommend noise mitigation measures in order to meet the requirements under the HKPSG.

11. REFERENCES

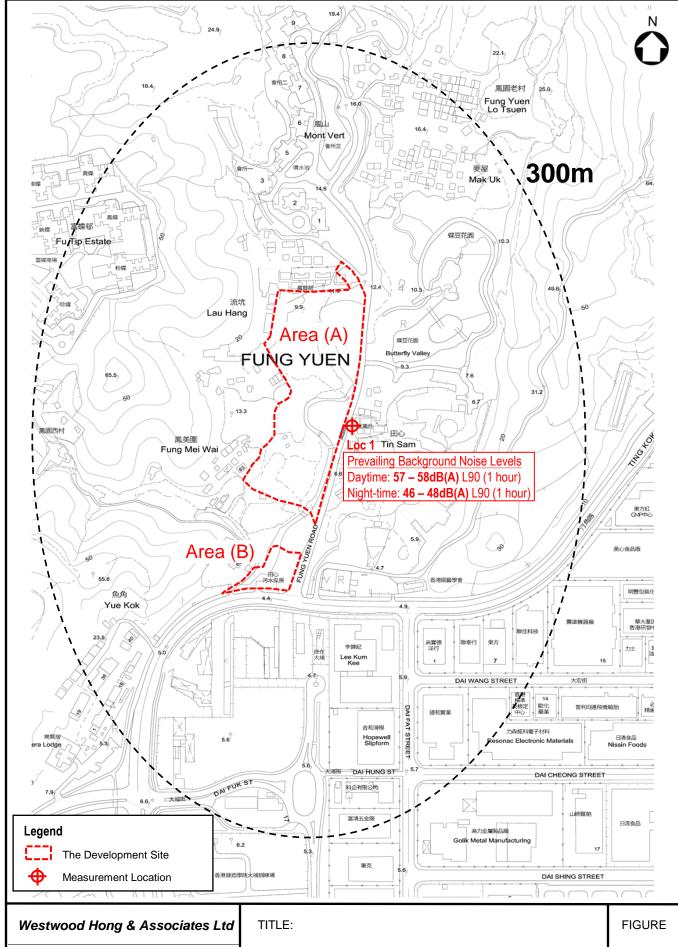
- [1] "Hong Kong Planning Standards & Guidelines" of March 2014 of Hong Kong Government.
- [2] "Technical Memorandum for the Assessment of Noise from Places Other Than Domestic Premises, Public Places or Construction Sites" (IND TM) issued under the Noise Control Ordinance.
- [3] "RoadNoise 2000" Computer Software of WS Atkins Noise and Vibration, England.
- [4] "Calculation of Road Traffic Noise" of the Department of Transport, Welsh Office, UK.



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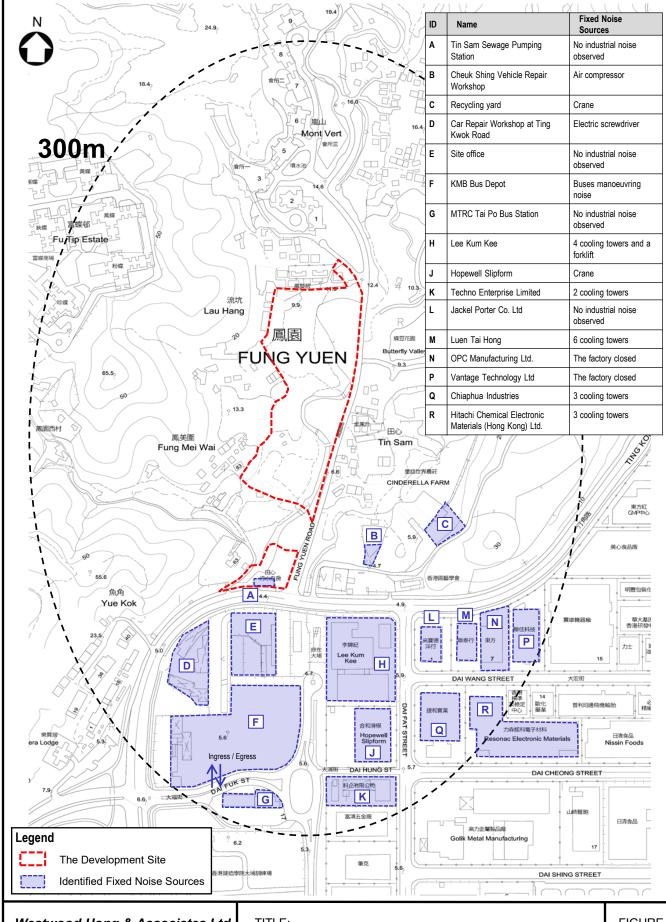
Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po **Site Location**



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Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po **Measurement Locations**



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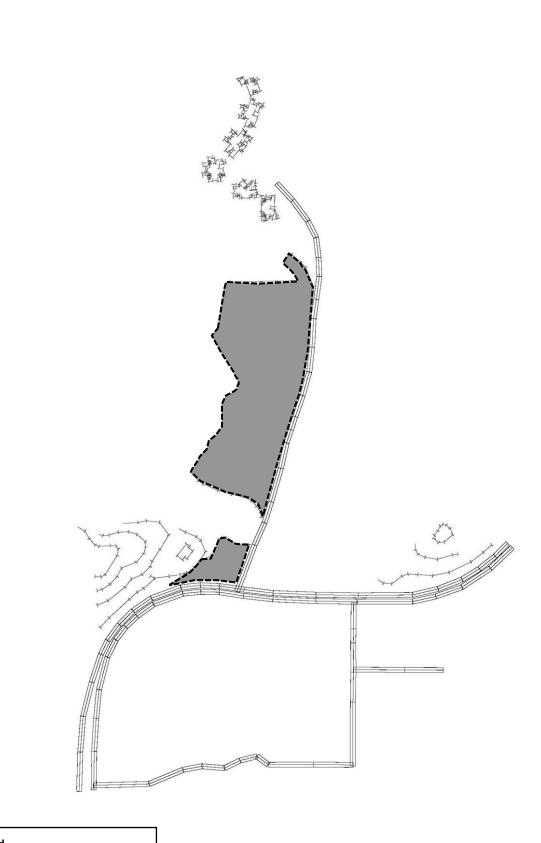
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Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po TITLE:

Location of Fixed Noise Sources

FIGURE



Legend



The Development Site

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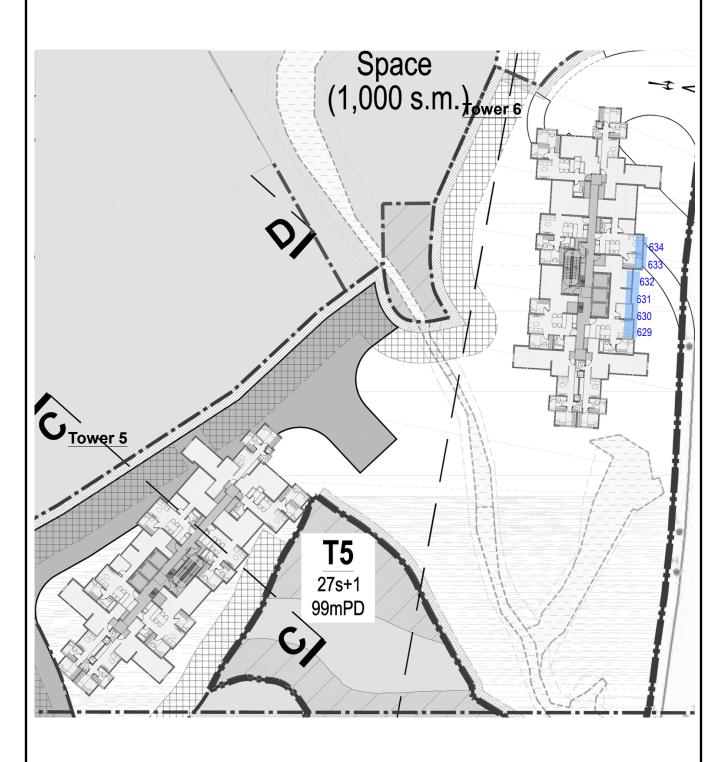
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Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po TITLE:

Computer Plot of Road Scheme

FIGURE







,

Legend

Acoustic Window (Baffle Type)

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Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po

TITLE:

Location of Noise Mitigation Measures (Tower 5 and Tower 6)

FIGURE

5a







Aco

Acoustic Window (Baffle Type)

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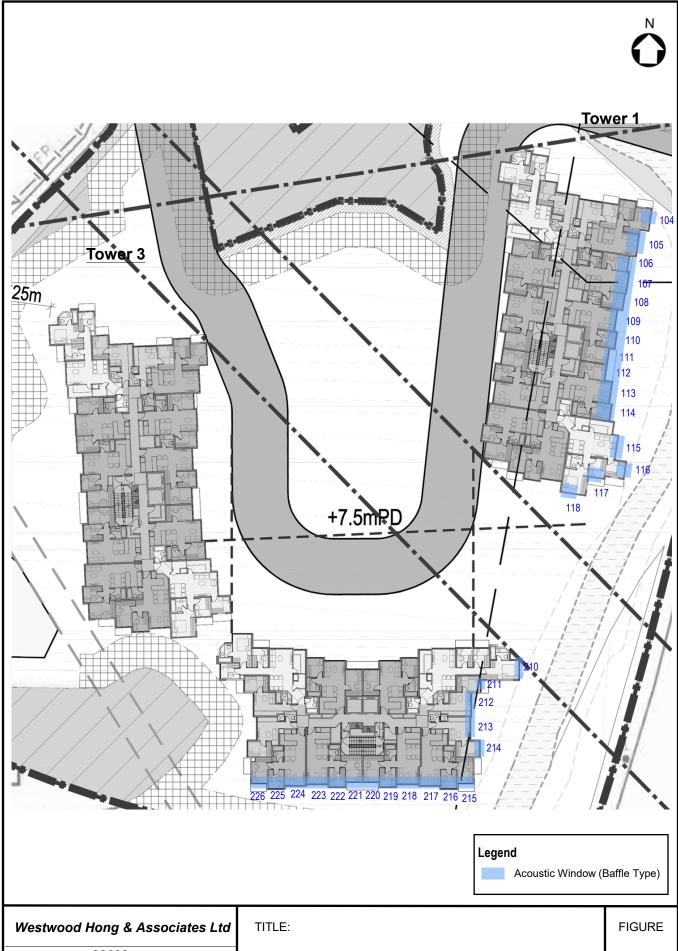
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Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po TITLE:

Location of Noise Mitigation Measures (Tower 4 and Tower 7)

FIGURE

5b



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Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po **Location of Noise Mitigation Measures** (Tower 1 – Tower 3)

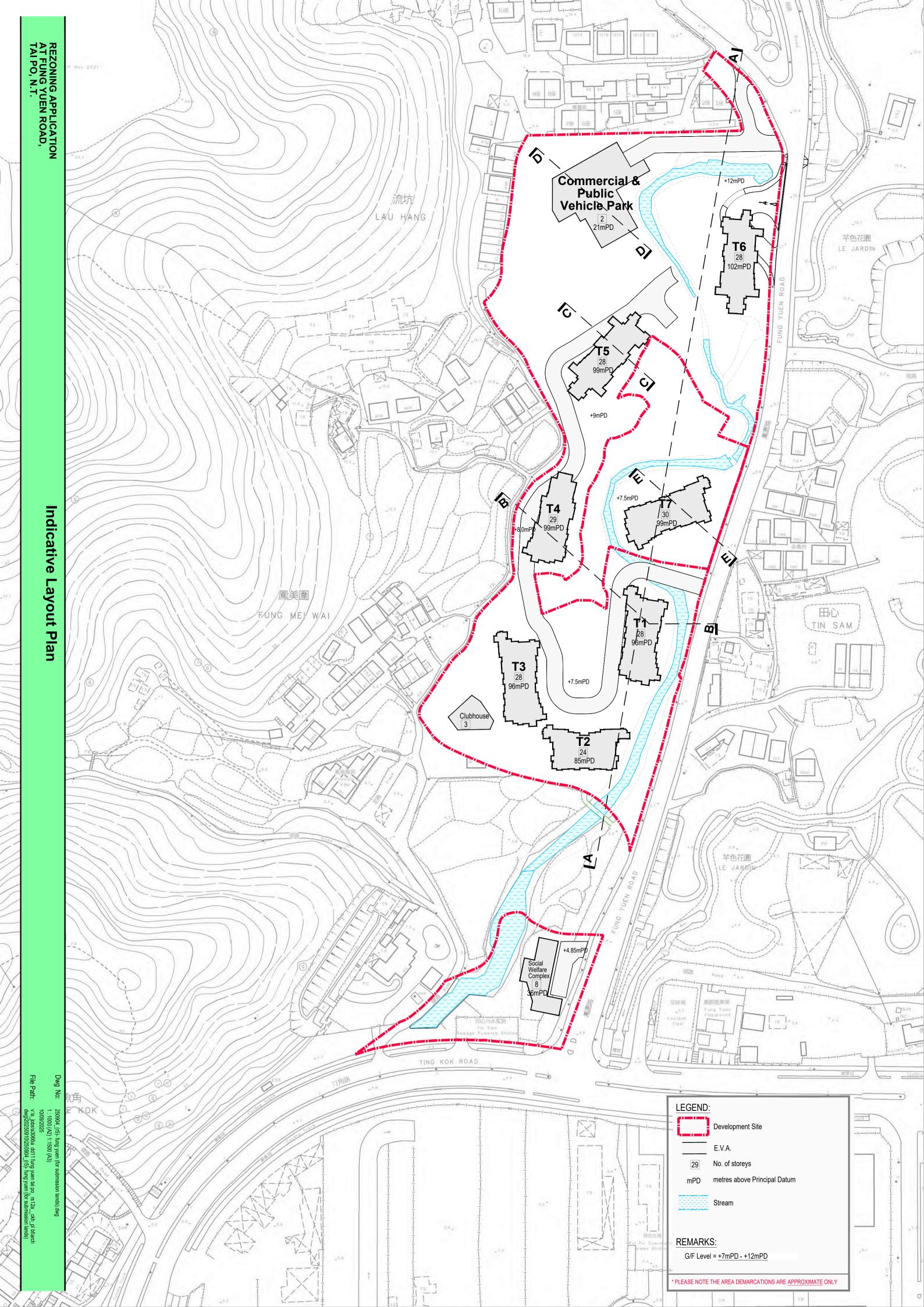
5c

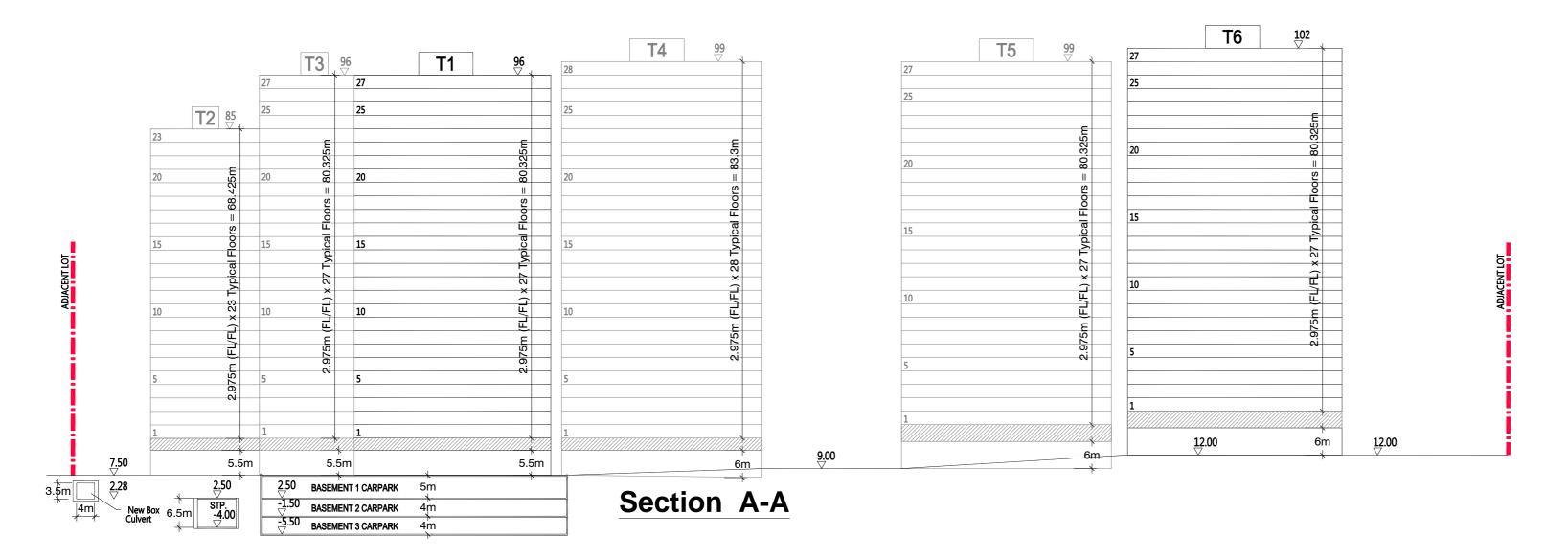
Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po, New Territories Environmental Noise Impact Assessment

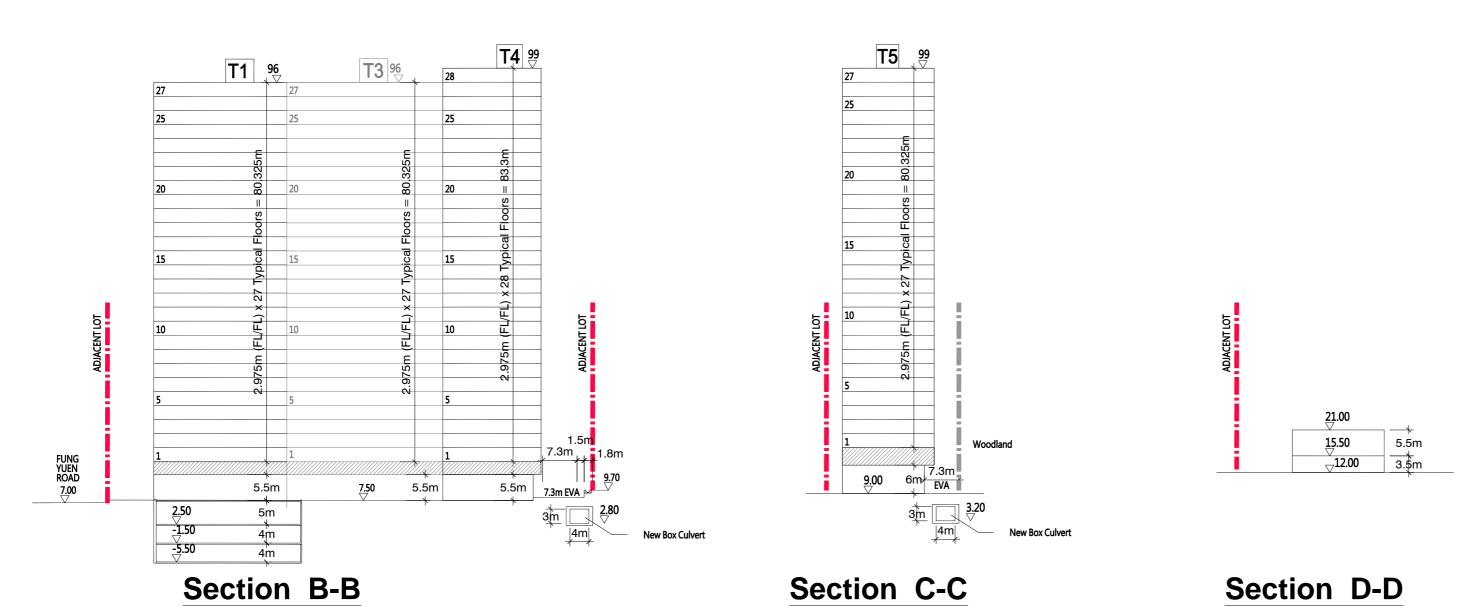
APPENDIX 1

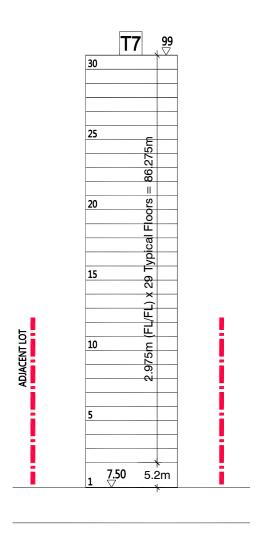
ARCHITECTURAL DRAWINGS

Report: 22608-N1 Rev A







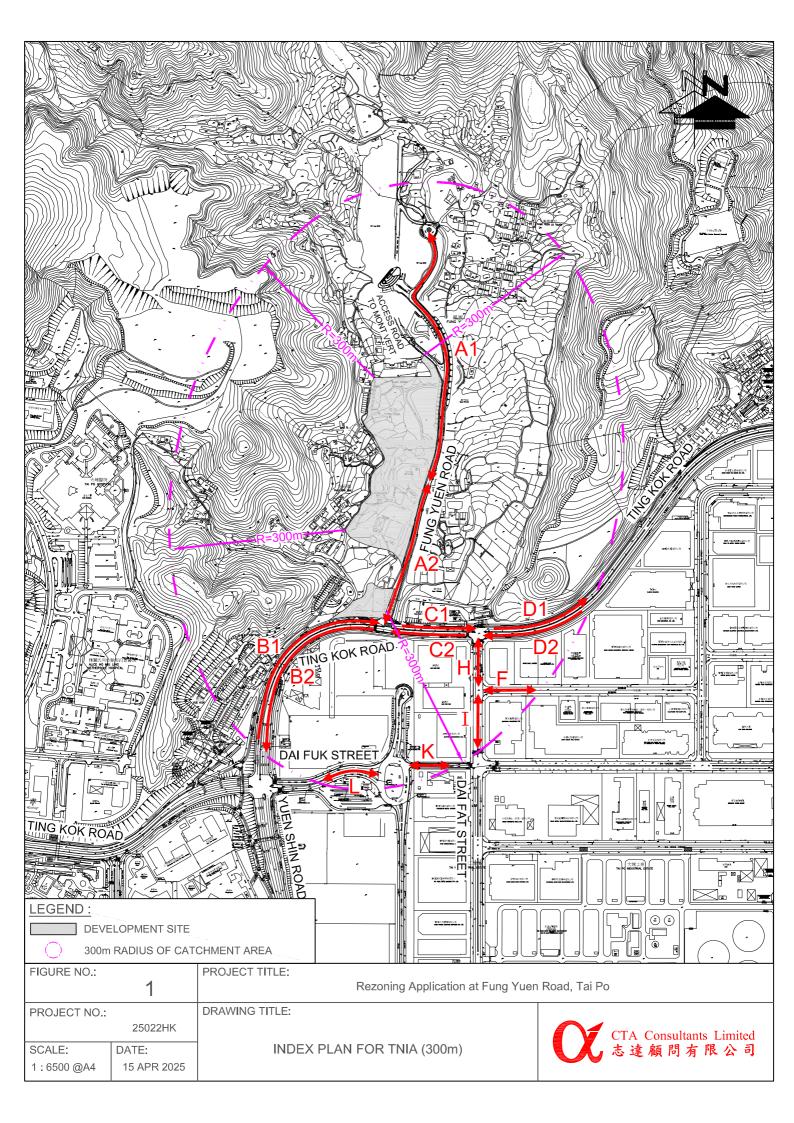


Section D-D

Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po, New Territories Environmental Noise Impact Assessment

APPENDIX 2

YEAR 2045 TRAFFIC FORECAST (provided by CTA CONSULTANTS LTD.) AND CONFIRMATION FROM HYD



25022HK

Rezoning Application at Fung Yuen Road, Tai Po



TRAFFIC FORECAST FOR TRAFFIC NOISE IMPACT ASSESSMENT

					Year 2	2045	
Link No.	Road Name	Speed	1-way / 2-way	AM Pea	ık	PM Pe	ak
LIIK NO.	Roau Ivallie	Speed	1-way / 2-way	Traffic Flow (veh/hr)	HV%	Traffic Flow (veh/hr)	HV%
A1	Fung Yuen Road	50	2-way	280	30%	290	26%
A2	Fung Yuen Road	50	2-way	580	23%	550	19%
B1	Ting Kok Road	70	1-way	1500	28%	1510	20%
B2	Ting Kok Road	70	1-way	1780	23%	1370	22%
C1	Ting Kok Road	70	1-way	1420	29%	1370	20%
C2	Ting Kok Road	70	1-way	1610	24%	1260	21%
D1	Ting Kok Road	70	1-way	1120	26%	1220	17%
D2	Ting Kok Road	70	1-way	1370	22%	1020	18%
F	Dai Wang Street	50	2-way	330	45%	170	30%
Н	Dai Fai Street	50	2-way	440	45%	310	53%
I	Dai Fat Street	50	2-way	310	60%	250	54%
K	Dai Hung Street	50	1-way	210	43%	240	23%
L	Dai Fuk Street	50	2-way	490	43%	480	29%

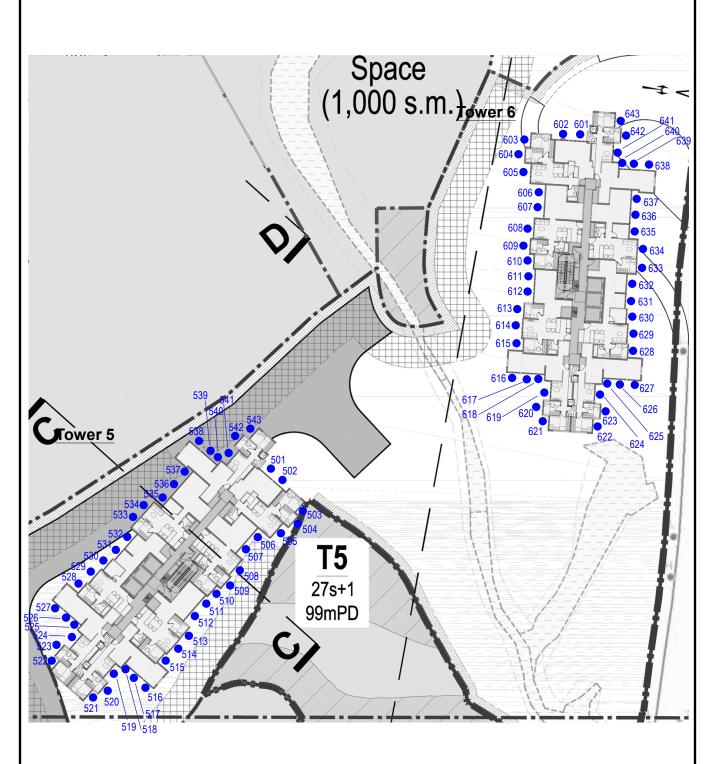
Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po, New Territories Environmental Noise Impact Assessment

APPENDIX 3

PREDICTED FAÇADE NOISE LEVELS FOR ROAD TRAFFIC NOISE (BASE SCENARIO)

Report: 22608-N1 Rev A





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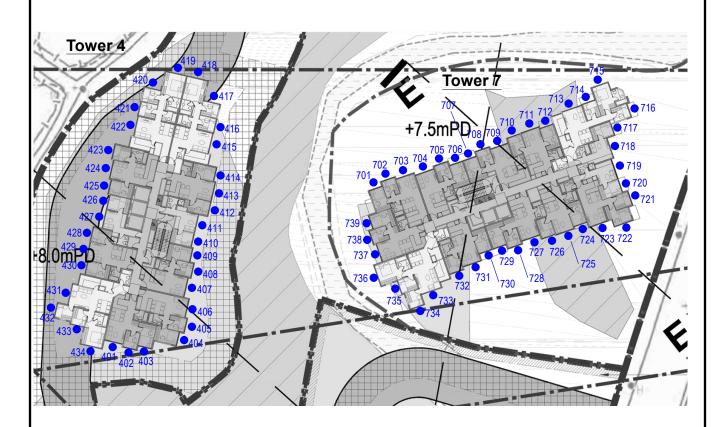
Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po TITLE:

Location of Assessment Point

FIGURE

A3-1





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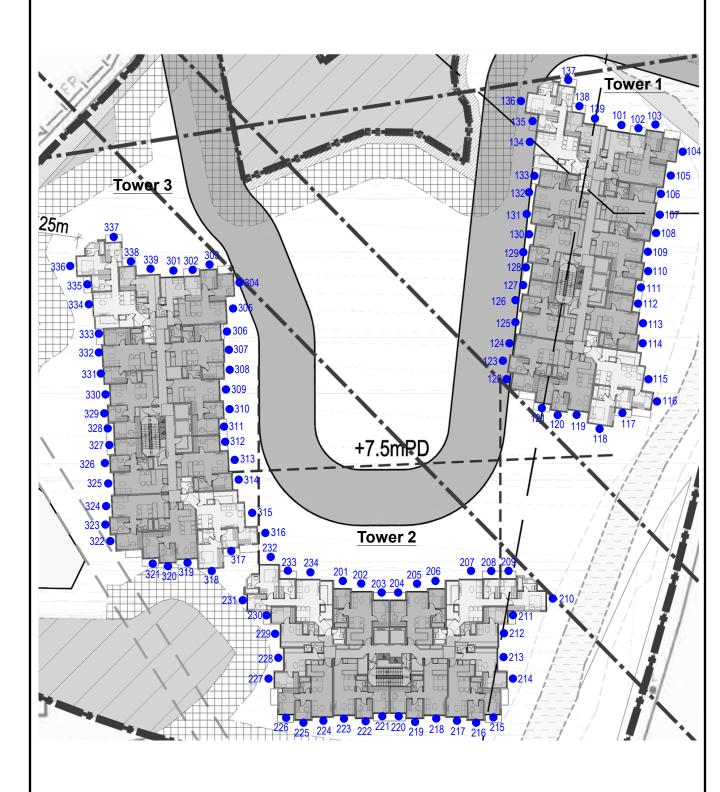
Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po TITLE:

Location of Assessment Point

FIGURE

A3-2





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Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po TITLE:

Location of Assessment Point

FIGURE

A3-3

Job No. : 22608 Job Title : Fung Yuen Scenario : 2045 Traffic Forecast, AM Peak, Unmitigated

	mPD Level of	Receiver																																						\neg
	Noise																				Tower 1																			
Floor	Assessment	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139
1	16.9	65.0	65.7	67.9	72.4	72.2	72.1	72.2	72.3	72.0	72.2	72.0	72.0	72.2	72.4	72.6	72.9	72.0	71.8	69.9	69.8	69.0	65.3	61.9	35.7	35.0	35.5	35.0	34.9	34.9	34.8	35.1	45.0	48.9	45.1	44.7	43.5	64.6	64.5	64.4
2	19.9	64.9	65.5	67.6	72.1	72.0	71.9	71.9	72.0	71.8	71.9	71.8	71.7	71.9	72.1	72.2	72.6	71.8	71.6	69.8	69.7	69.0	65.2	61.8	35.7	35.0	35.5	35.0	34.9	34.9	34.8	35.1	45.8	49.7	47.5	47.1	45.6	64.5	64.4	64.3
3	22.9	64.7	65.3	67.4	71.8	71.7	71.6	71.7	71.7	71.5	71.7	71.5	71.5	71.6	71.8	71.9	72.3	71.6	71.5	69.7	69.6	68.9	65.2	61.7	35.7	35.0	35.5	35.0	34.9	34.9	34.8	35.1	46.4	50.4	49.4	49.0	46.8	64.4	64.2	64.2
4	25.8	64.5	65.0	67.1	71.5	71.4	71.4	71.4	71.5	71.3	71.4	71.2	71.2	71.3	71.4	71.5	72.0	71.3	71.2	69.6	69.5	68.8	65.1	61.7	35.7	35.0	35.5	35.0	34.9	34.9	34.8	35.1	46.7	50.8	50.5	50.0	47.5	64.2	64.1	64.0
5	28.8	64.2	64.8	66.8	71.2	71.1	71.1	71.1	71.2	71.0	71.1	70.9	70.9	71.0	71.1	71.2	71.7	71.1	71.0	69.4	69.3	68.7	65.0	61.6	35.7	35.0	35.5	35.0	34.9	34.9	34.8	35.1	46.9	51.2	51.1	50.6	48.0	64.1	63.9	63.8
6	31.8	64.0	64.5	66.5	71.0	70.9	70.8	70.9	70.9	70.7	70.8	70.7	70.6	70.8	70.9	70.9	71.4	70.9	70.8	69.3	69.2	68.6	65.0	61.5	35.7	35.0	35.5	34.9	34.9	34.9	34.8	35.1	47.0	51.3	51.8	51.3	48.2	63.9	63.7	63.6
7	34.8	63.8	64.3	66.2	70.7	70.6	70.6	70.6	70.7	70.5	70.6	70.5	70.4	70.5	70.6	70.6	71.2	70.7	70.7	69.2	69.1	68.5	64.9	61.5	35.7	35.0	35.5	34.9	34.9	34.9	34.8	35.0	47.1	51.5	52.2	51.7	48.7	63.7	63.5	63.4
8	37.7	63.5	64.0	66.0	70.5	70.4	70.4	70.4	70.4	70.3	70.4	70.2	70.1	70.3	70.4	70.4	70.9	70.5	70.5	69.1	69.0	68.3	64.8	61.4	35.7	35.0	35.5	34.9	34.9	34.9	34.8	35.0	47.1	51.5	52.5	51.9	48.9	63.5	63.3	63.2
9	40.7	63.3	63.7	65.7	70.3	70.2	70.2	70.2	70.2	70.1	70.2	70.0	69.9	70.0	70.2	70.1	70.8	70.4	70.3	69.0	68.9	68.2	64.8	61.3	35.6	35.0	35.4	34.9	34.9	34.8	34.8	35.0	47.1	51.5	52.8	52.2	49.3	63.4	63.1	63.0
10	43.7	63.1	63.5	65.4	70.1	70.0	69.9	70.0	70.0	69.9	70.0	69.8	69.7	69.8	69.9	69.9	70.6	70.2	70.3	68.9	68.7	68.2	64.7	61.3	35.6	35.0	35.4	34.9	34.9	34.8	34.8	35.0	47.1	51.6	52.9	52.4	49.6	63.2	62.9	62.7
11	46.7	62.8	63.3	65.2	69.9	69.8	69.7	69.8	69.8	69.7	69.8	69.6	69.5	69.6	69.7	69.7	70.4	70.1	70.1	68.8	68.7	68.1	64.6	61.2	35.6	34.9	35.4	34.9	34.9	34.8	34.8	35.0	47.1	51.5	52.9	52.4	49.9	63.0	62.7	62.5
12	49.6	62.6	63.0	64.9	69.7	69.6	69.6	69.7	69.7	69.5	69.6	69.4	69.3	69.5	69.6	69.5	70.3	69.9	70.0	68.7	68.6	68.0	64.6	61.1	35.6	34.9	35.4	34.9	34.8	34.8	34.8	35.0	47.0	51.5	53.0	52.5	50.0	62.8	62.5	62.3
13	52.6	62.4	62.8	64.7	69.5	69.4	69.4	69.5	69.5	69.3	69.5	69.3	69.2	69.3	69.4	69.4	70.1	69.9	69.9	68.6	68.5	68.0	64.5	61.1	35.5	34.9	35.4	34.9	34.8	34.8	34.7	35.0	47.0	51.5	53.0	52.5	50.1	62.6	62.3	62.1
14	55.6	62.2	62.6	64.5	69.4	69.3	69.3	69.4	69.4	69.2	69.3	69.1	69.0	69.2	69.3	69.2	70.0	69.7	69.8	68.5	68.4	67.9	64.4	61.0	35.5	34.9	35.4	34.8	34.8	34.7	34.7	34.9	46.9	51.4	53.0	52.5	50.1	62.4	62.2	61.9
15	58.6	62.0	62.4	64.2	69.3	69.2	69.1	69.2	69.2	69.1	69.2	69.0	68.9	69.0	69.1	69.1	69.9	69.6	69.7	68.5	68.3	67.8	64.4	60.9	35.5	34.9	35.3	34.8	34.8	34.7	34.7	34.9	46.9	51.4	53.0	52.4	50.2	62.3	62.0	61.7
16	61.5	61.8	62.2	64.0	69.1	69.0	69.0	69.1	69.1	68.9	69.0	68.9	68.8	68.9	69.0	69.0	69.8	69.5	69.6	68.4	68.3	67.8	64.3	60.9	35.5	34.8	35.3	34.8	34.8	34.7	34.6	34.9	46.8	51.3	52.9	52.5	50.2	62.1	61.8	61.6
17	64.5	61.6	62.0	63.8	69.0	68.9	68.9	69.0	69.0	68.8	68.9	68.7	68.7	68.8	68.9	68.8	69.7	69.5	69.5	68.4	68.2	67.7	64.2	60.8	35.4	34.7	35.2	34.7	34.7	34.7	34.7	34.9	46.8	51.3	52.9	52.4	50.2	61.9	61.6	61.4
18	67.5	61.4	61.8	63.6	68.9	68.8	68.8	68.8	68.9	68.7	68.8	68.6	68.5	68.7	68.7	68.7	69.6	69.4	69.4	68.3	68.2	67.6	64.2	60.8	35.7	35.0	35.6	35.1	35.0	35.0	35.0	35.2	46.7	51.2	52.9	52.4	50.2	61.8	61.4	61.2
19	70.5	61.2	61.6	63.4	68.8	68.7	68.7	68.7	68.7	68.6	68.7	68.5	68.4	68.6	68.6	68.6	69.5	69.3	69.3	68.3	68.1	67.6	64.1	60.7	36.4	35.7	36.2	35.7	35.7	35.8	35.6	35.9	46.7	51.1	52.8	52.4	50.2	61.6	61.3	61.0
20	73.4	61.1	61.4	63.3	68.7	68.6	68.6	68.6	68.6	68.5	68.6	68.4	68.3	68.5	68.5	68.5	69.4	69.2	69.3	68.2	68.0	67.5	64.1	60.7	37.5	36.8	37.3	36.8	36.8	36.9	36.6	36.9	46.7	51.1	52.8	52.3	50.2	61.5	61.1	60.9
21	76.4	60.9	61.2	63.1	68.6	68.5	68.5	68.5	68.5	68.4	68.5	68.3	68.2	68.3	68.4	68.4	69.4	69.1	69.2	68.1	68.0	67.5	64.0	60.6	38.8	38.1	38.6	38.1	38.0	38.2	37.8	38.1	46.9	51.1	52.8	52.3	50.2	61.3	61.0	60.7
22	79.4	60.7	61.1	62.9	68.5	68.4	68.4	68.4	68.5	68.3	68.4	68.2	68.1	68.3	68.4	68.3	69.3	69.1	69.1	68.1	67.9	67.4	64.0	60.6	40.3	39.6	40.1	39.5	39.5	39.5	39.3	39.4	46.9	51.1	52.8	52.3	50.2	61.2	60.8	60.6
23	82.4	60.6	60.9	62.8	68.4	68.3	68.3	68.3	68.4	68.2	68.3	68.1	68.0	68.2	68.2	68.2	69.2	69.0	69.1	68.0	67.9	67.4	63.9	60.6	42.0	41.3	41.7	41.2	41.1	41.1	40.8	40.9	47.2	51.2	52.8	52.3	50.3	61.0	60.7	60.4
24	85.3	60.4	60.8	62.6	68.3	68.3	68.2	68.2	68.3	68.1	68.2	68.0	67.9	68.1	68.2	68.1	69.1	68.9	69.0	68.0	67.8	67.3	63.9	60.5	43.9	43.2	43.5	43.0	42.9	42.9	42.6	42.6	47.6	51.3	52.8	52.4	50.4	60.9	60.5	60.3
25	88.3	60.3	60.6	62.5	68.2	68.2	68.1	68.2	68.2	68.0	68.1	67.9	67.8	68.0	68.1	68.0	69.1	68.9	68.9	68.0	67.8	67.3	63.9	60.6	46.1	45.4	45.6	45.1	44.9	44.8	44.5	44.5	48.2	51.5	52.9	52.5	50.5	60.7	60.4	60.1
26	91.3	60.1	60.5	62.3	68.2	68.0	68.0	68.1	68.1	67.9	68.0	67.8	67.7	67.9	68.0	67.9	69.1	68.8	68.9	68.0	67.8	67.3	64.0	60.7	48.7	48.0	48.0	47.5	47.2	47.1	46.7	46.7	49.1	51.9	53.1	52.7	50.8	60.6	60.2	60.0
27	94.3	60.0	60.3	62.2	68.1	68.0	68.0	68.0	68.0	67.9	68.0	67.8	67.7	67.8	67.9	67.8	69.1	68.9	69.0	68.1	67.9	67.4	64.2	61.2	52.3	51.5	51.3	50.6	50.3	50.1	49.5	49.5	50.7	52.7	53.6	53.1	51.3	60.5	60.1	59.8
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Floor	Assessment	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234
1	17.8	60.5	60.6	60.2	59.9	61.2	62.0	64.4	65.4	66.4	73.0	71.2	71.0	71.2	72.8	73.0	72.8	72.2	72.0	71.9	71.7	71.6	71.6	71.4	71.2	71.2	71.0	67.3	63.9	64.6	65.1	66.4	59.4	59.6	60.1
2	20.8	60.5	60.6	60.1	59.8	61.1	61.9	64.2	65.2	66.2	72.8	71.1	70.8	71.0	72.6	72.9	72.7	72.2	72.0	71.9	71.7	71.6	71.6	71.5	71.4	71.3	71.2	67.6	64.6	65.2	65.6	66.8	59.4	59.6	60.1
3	23.8	60.4	60.5		59.7	61.0	61.8	64.1	65.1	66.0	72.6	71.0	70.7	70.9	72.4	72.9	72.6	72.2	72.0	71.9	71.7	71.6	71.7	71.5	71.4	71.4	71.3	67.9	65.1	65.6	65.9	67.2	59.3	59.5	60.0
4	26.7	60.3	60.4	59.9	59.6	60.8	61.6	63.9	64.9	65.8	72.4	70.8	70.5	70.7	72.3	72.7	72.5	72.1	71.9	71.9	71.7	71.7	71.7	71.6	71.5	71.4	71.3	68.1	65.5	65.9	66.3	67.4	59.2	59.4	59.9
5	29.7	60.2	60.3		59.5	60.7	61.5	63.7	64.7	65.6	72.1	70.7	70.4	70.5	72.1	72.6	72.5	72.0	71.9	71.9	71.7	71.6	71.7	71.5	71.5	71.5	71.3	68.2	65.7	66.2	66.5	67.6	59.2	59.4	59.8
6	32.7	60.1	60.1	59.6	59.4	60.5	61.3	63.5	64.5	65.3	71.9	70.5	70.3	70.4	71.9	72.5	72.3	72.0	71.8	71.8	71.6	71.6	71.6	71.5	71.5	71.4	71.3	68.2	65.8	66.3	66.6	67.7	59.1	59.3	59.7
7	35.7	59.9	60.0	59.5	59.2	60.4	61.2	63.3	64.2	65.1	71.8	70.4	70.1	70.2	71.7	72.4	72.3	71.9	71.8	71.8	71.6	71.5	71.6	71.5	71.4	71.4	71.3	68.2	65.9	66.3	66.6	67.7	59.0	59.2	59.6
8	38.6	59.8	59.9		59.1	60.2	61.0	63.1	64.0	64.9	71.6	70.3	70.0	70.0	71.6	72.3	72.2	71.8	71.7	71.7	71.6	71.5	71.5	71.5	71.4	71.4	71.3	68.2	65.8	66.4	66.7	67.8	58.9	59.2	59.5
9	41.6	59.7	59.8		58.9	60.1	60.8	63.0	63.8	64.6	71.4	70.2	69.9	69.9	71.5	72.2	72.1	71.7	71.6	71.6	71.5	71.5	71.5	71.4	71.4	71.4	71.3	68.2	65.8	66.4	66.7	67.7	58.8	59.1	59.4
10	44.6	59.6	59.6	59.1	58.8	59.9	60.6	62.8	63.6	64.4	71.3	70.1	69.8	69.8	71.3	72.1	72.0	71.7	71.6	71.6	71.4	71.4	71.5	71.4	71.3	71.3	71.2	68.2	65.8	66.3	66.6	67.7	58.7	59.0	59.3
11	47.6	59.4	59.5	58.9	58.6	59.7	60.5	62.6	63.4	64.2	71.2	70.0	69.7	69.7	71.2	72.0	71.9	71.6	71.5	71.5	71.4	71.4	71.4	71.3	71.3	71.3	71.2	68.1	65.8	66.3	66.6	67.7	58.6	58.8	59.2
12	50.5	59.4	59.3		58.5	59.6	60.3	62.4	63.2	64.0	71.0	69.9	69.6	69.6	71.1	71.9	71.8	71.6	71.5	71.5	71.3	71.3	71.3	71.3	71.2	71.2	71.1	68.1	65.7	66.3	66.6	67.7	58.5	58.7	59.1
13	53.5	59.2	59.2		58.3	59.4	60.1	62.2	63.0	63.7	70.9	69.8	69.5	69.4	71.0	71.8	71.7	71.5	71.4	71.4	71.3	71.3	71.3	71.2	71.2	71.2	71.1	68.1	65.7	66.2	66.6	67.6	58.4	58.6	58.9
14	56.5	59.1	59.1	58.5	58.1	59.3	59.9	62.0	62.8	63.5	70.8	69.7	69.4	69.3	70.9	71.8	71.7	71.4	71.3	71.3	71.2	71.2	71.3	71.2	71.2	71.2	71.1	68.0	65.6	66.2	66.5	67.6	58.3	58.5	58.8
15	59.5	59.0	58.9	58.3	58.0	59.1	59.8	61.8	62.6	63.3	70.7	69.6	69.3	69.2	70.8	71.7	71.6	71.3	71.3	71.3	71.2	71.1	71.2	71.1	71.1	71.1	71.0	68.0	65.6	66.2	66.5	67.6	58.2	58.4	58.7
16	62.4	58.8	58.8	58.2	57.8	58.9	59.6	61.7	62.4	63.2	70.6	69.5	69.2	69.1	70.7	71.6	71.5	71.3	71.2	71.2	71.1	71.1	71.1	71.1	71.1	71.1	71.0	67.9	65.6	66.1	66.4	67.5	58.1	58.3	58.6
17	65.4	58.7	58.6	58.0	57.7	58.8	59.5	61.5	62.2	63.0	70.5	69.5	69.1	69.0	70.6	71.5	71.5	71.2	71.2	71.2	71.1	71.0	71.1	71.0	71.0	71.0	70.9	67.9	65.5	66.1	66.4	67.5	58.0	58.1	58.4
18	68.4	58.6	58.6		57.6	58.6	59.3	61.3	62.0	62.8	70.4	69.4	69.0	69.0	70.5	71.5	71.4	71.2	71.1	71.1	71.0	71.0	71.0	71.0	71.0	71.0	70.9	67.8	65.5	66.0	66.4	67.4	57.9	58.0	58.3
19	71.4	58.4	58.4	57.8	57.4	58.5	59.2	61.2	61.9	62.6	70.3	69.3	69.0	68.9	70.4	71.4	71.3	71.1	71.0	71.1	71.0	70.9	71.0	70.9	70.9	70.9	70.8	67.8	65.4	66.0	66.3	67.4	57.8	57.9	58.2
20	74.3	58.3	58.3	57.6	57.3	58.3	59.0	61.0	61.7	62.5	70.2	69.2	68.9	68.8	70.3	71.3	71.3	71.0	71.0	71.0	70.9	70.9	70.9	70.9	70.9	70.8	70.8	67.7	65.4	65.9	66.3	67.3	57.7	57.8	58.1
21	77.3	58.2	58.2	57.5	57.1	58.2	58.9	60.9	61.5	62.3	70.1	69.2	68.8	68.7	70.3	71.3	71.2	71.0	70.9	70.9	70.8	70.8	70.9	70.8	70.8	70.8	70.7	67.7	65.3	65.9	66.2	67.3		57.7	58.0
22	80.3	58.1	58.0	57.4	57.0	58.1	58.7	60.7	61.4	62.1	70.1	69.1	68.7	68.6	70.2	71.2	71.1	70.9	70.9	70.9	70.8	70.8	70.8	70.8	70.7	70.7	70.7	67.6	65.3	65.9	66.2	67.3	57.4	57.6	57.9
23	83.3	57.9	57.9	57.2	56.9	57.9	58.6	60.6	61.2	62.0	70.0	69.0	68.7	68.5	70.1	71.1	71.1	70.9	70.8	70.8	70.7	70.7	70.8	70.7	70.7	70.7	70.6	67.6	65.2	65.8	66.2	67.2	57.3	57.4	57.8
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Floor	Assessment	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339
1	16.9	51.4	51.1	51.4	59.7	59.1	58.9	58.9	59.1	59.0	59.1	58.9	59.0	59.2	59.3	59.5	62.4	66.2	66.9	67.3	67.8	68.0	68.1	66.4	64.3	64.1	64.0	63.7	63.6	63.5	63.4	63.3	63.1	63.0	62.8	62.6	62.4	52.6	52.5	51.9
2	19.9	51.4	51.1	51.4	59.7	59.1	58.8	58.9	59.0	58.9	59.0	58.9	59.0	59.2	59.3	59.4	63.2	66.7	67.3	67.6	68.1	68.2	68.3	66.8	64.9	64.7	64.6	64.3	64.2	64.2	64.0	63.9	63.7	63.6	63.4	63.2	63.1	52.6	52.5	51.9
3	22.9	51.4	51.0		59.7	59.1	58.8	58.8	59.0	58.9	59.0	58.9	58.9	59.1	59.2	59.4	63.7	67.0	67.5	67.9	68.3	68.4	68.5	67.1	65.3	65.1	65.0	64.7	64.6	64.6	64.5	64.3	64.2	64.1	63.9	63.7	63.5	52.6	52.5	51.9
4	25.8	51.4	51.0	51.3	59.7	59.1	58.9	58.9	59.0	58.9	58.9	58.8	58.9	59.1	59.2	59.3	64.1	67.2	67.7	68.1	68.5	68.6		67.3	65.6	65.4	65.3	65.1	65.0	64.9	64.8	64.7	64.5	64.4	64.2	64.1	63.9	52.5	52.5	51.8
5	28.8	51.3	51.0		59.7	59.1	58.8	58.9	59.0	58.8	58.9	58.8	58.8	59.0	59.1	59.3	64.4	67.4	67.9	68.2	68.6	68.8	68.8	67.5	65.9	65.7	65.6	65.3	65.2	65.2	65.1	65.0	64.8	64.7	64.5	64.4	64.2	52.5	52.4	51.8
6	31.8	51.3	50.9	51.2	59.7	59.1	58.9	58.9	58.9	58.8	58.8	58.7	58.8	59.0	59.0	59.2	64.6	67.5	68.0	68.4	68.8	68.9	68.9	67.6	66.1	65.9	65.8	65.6	65.5	65.4	65.3	65.2	65.1	64.9	64.7	64.6	64.4	52.5	52.4	51.7
7	34.8	51.2	50.8	51.2	59.7	59.2	58.9	58.9	59.0	58.8	58.8	58.7	58.7	58.9	59.0	59.1	64.7	67.6	68.1	68.4	68.8	69.0	69.0	67.7	66.3	66.1	66.0	65.8	65.7	65.7	65.5	65.4	65.3	65.2	64.9	64.8	64.7	52.4	52.4	51.7
8	37.7	51.2	50.8	51.2	59.7	59.2	58.9	58.9	58.9	58.7	58.7	58.6	58.7	58.8	58.9	59.0	64.8	67.6	68.1	68.5	68.9	69.0	69.1	67.8	66.4	66.3	66.2	65.9	65.8	65.8	65.7	65.6	65.5	65.4	65.1	65.0	64.9	52.4	52.3	51.7
9	40.7	51.1	50.7	51.1	59.8	59.2	59.0	58.9	58.9	58.6	58.6	58.5	58.6	58.7	58.8	58.9	64.8	67.6	68.1	68.5	68.9	69.0	69.1	67.9	66.5	66.4	66.2	66.0	65.9	65.9	65.8	65.7	65.6	65.5	65.3	65.2	65.1	52.4	52.2	51.6
10	43.7	51.0	50.6	51.0	59.8	59.3	59.0	59.0	59.0	58.7	58.6	58.4	58.5	58.7	58.7	58.9	64.8	67.6	68.1	68.4	68.8	69.0	69.1	67.9	66.5	66.4	66.3	66.1	66.0	66.0	65.9	65.8	65.7	65.6	65.4	65.3	65.2	52.3	52.2	51.6
11	46.7	51.0	50.6	51.0	59.9	59.4	59.1	59.0	59.0	58.6	58.5	58.3	58.4	58.6	58.6	58.8	64.7	67.6	68.1	68.4	68.8	69.0	69.1	67.9	66.5	66.4	66.3	66.1	66.0	66.0	65.9	65.8	65.7	65.6	65.5	65.3	65.3	52.2	52.1	51.5
12	49.6	51.0	50.5	50.9	59.9	59.4	59.1	59.1	59.0	58.6	58.5	58.3	58.4	58.5	58.5	58.7	64.7	67.5	68.0	68.4	68.8	68.9	69.0	67.8	66.5	66.4	66.3	66.1	66.0	66.0	65.9	65.8	65.7	65.7	65.5	65.4	65.3	52.2	52.1	51.5
13	52.6	50.9	50.5	50.9	60.0	59.5	59.2	59.1	58.9	58.5	58.4	58.2	58.3	58.4	58.4	58.6	64.6	67.5	68.0	68.4	68.8	68.9	69.0	67.8	66.5	66.3	66.3	66.1	66.0	66.0	65.9	65.8	65.7	65.7	65.5	65.4	65.3	52.2	52.0	51.4
14	55.6	50.8	50.4	50.8	60.1	59.6	59.3	59.1	58.9	58.4	58.3	58.1	58.2	58.3	58.3	58.5	64.6	67.5	68.0	68.3	68.7	68.9	69.0	67.8	66.4	66.3	66.2	66.1	66.0	66.0	65.9	65.8	65.7	65.7	65.5	65.4	65.3	52.1	52.0	51.3
15	58.6	50.8	50.3		60.1	59.7	59.3	59.1	58.9	58.4	58.2	58.0	58.1	58.2	58.2	58.3	64.5	67.4	67.9	68.3	68.7	68.8		67.8	66.4	66.3	66.2	66.0	66.0	66.0	65.9	65.8	65.7	65.6	65.5	65.4	65.3	52.0	51.9	51.2
16	61.5	50.7	50.3	50.6	60.2	59.7	59.3	59.2	58.9	58.4	58.2	57.9	58.0	58.1	58.1	58.2	64.4	67.4	67.9	68.3	68.7	68.8	68.9	67.7	66.4	66.3	66.2	66.0	65.9	65.9	65.9	65.8	65.7	65.6	65.5	65.4	65.3	52.0	51.9	51.2
17	64.5	50.6	50.2	50.6	60.2	59.7	59.4	59.2	59.0	58.4	58.1	57.8	57.9	58.0	58.0	58.1	64.4	67.3	67.9	68.2	68.6	68.8	68.9	67.7	66.3	66.2	66.1	66.0	65.9	65.9	65.8	65.8	65.6	65.6	65.5	65.4	65.3	51.9	51.8	51.1
18	67.5	50.5	50.1	50.5	60.3	59.8	59.4	59.1	59.0	58.3	58.0	57.7	57.8	57.9	57.9	58.0	64.3	67.3	67.8	68.2	68.6	68.7		67.6	66.3	66.2	66.1	65.9	65.8	65.9	65.8	65.7	65.6	65.5	65.4	65.3	65.3	51.8	51.7	51.1
19	70.5	50.4	50.0	50.4	60.2	59.8	59.4	59.1	58.9	58.3	57.9	57.7	57.7	57.8	57.8	57.9	64.2	67.2	67.8	68.1	68.5	68.7		67.6	66.2	66.1	66.1	65.9	65.8	65.8	65.7	65.6	65.6	65.5	65.4	65.3	65.2	51.7	51.7	51.0
20	73.4	50.4		50.4	60.3	59.8	59.4	59.1	58.9	58.3	57.9	57.6	57.6	57.8	57.8	57.9	64.2	67.2	67.8	68.1	68.5	68.6	68.8	67.6	66.2	66.1	66.0	65.8	65.8	65.8	65.7	65.6	65.5	65.5	65.3	65.3	65.2	51.7	51.6	50.9
21	76.4	50.3	49.9	50.3	60.2	59.8	59.4	59.2	58.9	58.2	57.8	57.5	57.5	57.7	57.7	57.8	64.1	67.1	67.7	68.1	68.5	68.6	68.7	67.5	66.2	66.0	66.0	65.8	65.7	65.7	65.6	65.6	65.5	65.5	65.3	65.2	65.2	51.6	51.6	50.9
22	79.4	50.3	49.8	50.2	60.3	59.8	59.4	59.2	58.8	58.2	57.8	57.4	57.5	57.6	57.6	57.7	64.1	67.1	67.7	68.0	68.4	68.6	68.7	67.5	66.1	66.0	65.9	65.8	65.7	65.7	65.6	65.6	65.5	65.4	65.3	65.2	65.1	51.6	51.5	50.8
23	82.4	50.2	49.7	50.1	60.3	59.8	59.4	59.2	58.8	58.2	57.8	57.4	57.4	57.6	57.6	57.7	64.1	67.1	67.6	68.0	68.4	68.5	68.6	67.4	66.1	65.9	65.9	65.7	65.7	65.7	65.6	65.5	65.4	65.4	65.2	65.2	65.1	51.5	51.4	50.7
24	85.3	50.1	49.7	50.1	60.3	59.8	59.4	59.2	58.8	58.2	57.8	57.4	57.4	57.6	57.6	57.7	64.2	67.1	67.6	68.0	68.3	68.5	68.6	67.4	66.0	65.9	65.9	65.7	65.6	65.6	65.5	65.5	65.4	65.3	65.2	65.1	65.1	51.4	51.3	50.6
25	88.3	50.0	49.6	50.0	60.3	59.9	59.5	59.2	58.9	58.2	57.8	57.5	57.6	57.7	57.7	57.9	64.8	67.1	67.6	68.0	68.3	68.5	68.6	67.4	66.0	65.9	65.8	65.6	65.5	65.6	65.5	65.4	65.3	65.3	65.2	65.1	65.0	51.4	51.3	50.5
26	91.3	49.9	49.5	49.9	60.3	59.9	59.5	59.2	58.9	58.3	58.0	57.7	57.8	58.0	58.1	58.4	66.1	67.3	67.8	68.0	68.4	68.5	68.5	67.3	65.9	65.8	65.8	65.6	65.5	65.5	65.5	65.4	65.3	65.2	65.1	65.0	65.0	51.3	51.2	50.5
27	94.3	49.8	49.4	49.8	60.4	60.0	59.6	59.4	59.1	58.7	58.5	58.2	58.4	58.8	59.2	59.7	66.8	67.7	68.2	68.3	68.6	68.6	68.5	67.3	65.9	65.8	65.7	65.5	65.5	65.5	65.4	65.3	65.3	65.2	65.1	65.0	64.9	51.2	51.1	50.5
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Floor	Assessment	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434
1	16.9	59.4	60.5	60.5	61.2	61.1	61.1	61.0	60.9	60.9	60.6	60.4	60.3	60.0	59.8	59.5	59.2	58.4	58.0	57.7	24.9	20.6	17.3	56.0	56.2	56.0	51.4	49.0	55.6	51.6	28.2	57.0	57.1	53.5	59.8
2	19.9	59.4	60.5	60.5	61.2	61.1	61.1	61.0	60.9	60.8	60.6	60.4	60.2	60.0	59.8	59.5	59.2	58.3	58.0	57.7	24.8	20.6	17.3	56.9	57.0	56.9	53.0	51.0	56.6	53.2	29.0	57.9	58.0	55.0	59.8
3	22.9	59.3	60.5	60.5	61.2	61.1	61.1	60.9	60.8	60.8	60.6	60.3	60.2	60.0	59.8	59.4	59.2	58.3	58.0	57.7	24.8	20.6	17.3	57.5	57.7	57.6	54.1	52.2	57.3	54.3	29.9	58.6	58.7	55.9	59.8
4	25.8	59.3	60.5	60.4	61.1	61.1	61.0	60.9	60.8	60.8	60.6	60.3	60.2	60.0	59.7	59.4	59.2	58.3	58.0	57.6	24.8	20.6	17.3	57.9	58.1	58.0	54.8	53.0	57.8	55.0	30.9	59.0	59.1	56.6	59.8
5	28.8	59.3	60.5	60.4	61.1	61.0	61.0	60.9	60.8	60.7	60.5	60.3	60.1	59.9	59.7	59.4	59.1	58.2	57.9	57.6	24.8	20.6	17.3	58.2	58.4	58.3	55.2	53.5	58.1	55.4	31.9	59.4	59.5	56.9	59.8
6	31.8	59.2	60.4	60.3	61.0	61.0	60.9	60.9	60.7	60.7	60.5	60.2	60.1	59.9	59.6	59.3	59.1	58.2	57.9	57.6	24.8	20.6	17.3	58.6	58.8	58.6	55.5	53.9	58.4	55.7	33.1	59.6	59.7	57.1	59.8
7	34.8	59.2	60.4	60.3	61.0	60.9	60.9	60.8	60.7	60.6	60.5	60.2	60.0	59.8	59.6	59.3	59.1	58.2	57.9	57.5	24.8	20.6	17.3	58.9	59.1	58.9	55.9	54.3	58.6	56.0	34.1	59.9	60.0	57.5	59.7
8	37.7	59.2	60.4	60.3	60.9	60.9	60.9	60.8	60.6	60.6	60.4	60.1	60.0	59.8	59.5	59.3	59.0	58.1	57.8	57.5	24.7	20.5	17.3	59.3	59.4	59.2	56.2	54.6	58.9	56.4	35.6	60.1	60.3	57.8	59.7
9	40.7	59.2	60.4	60.3	60.9	60.9	60.8	60.7	60.6	60.5	60.3	60.1	60.0	59.7	59.5	59.2	59.0	58.1	57.8	57.5	24.7	20.5	17.3	59.5	59.6	59.4	56.5	55.0	59.1	56.6	37.1	60.3	60.5	58.0	59.7
10	43.7	59.1	60.3	60.2	60.9	60.8	60.8	60.7	60.5	60.5	60.3	60.0	59.9	59.6	59.4	59.2	58.9	58.0	57.7	57.4	24.7	20.5	17.3	59.8	59.8	59.6	56.7	55.1	59.2	56.8	39.3	60.4	60.6	58.2	59.7
11	46.7	59.1	60.3	60.2	60.8	60.7	60.7	60.6	60.5	60.4	60.2	60.0	59.8	59.6	59.4	59.1	58.9	58.0	57.7	57.4	24.6	20.5	17.3	59.9	59.9	59.6	56.8	55.3	59.3	56.9	40.9	60.5	60.8	58.4	59.6
12	49.6	59.1	60.2	60.1	60.8	60.7	60.6	60.6	60.4	60.3	60.2	59.9	59.8	59.5	59.3	59.0	58.8	57.9	57.6	57.3	24.6	20.5	17.3	60.0	60.0	59.7	57.0	55.5	59.4	57.1	42.6	60.6	60.9	58.6	59.6
13	52.6	59.1	60.2	60.1	60.7	60.6	60.6	60.5	60.4	60.3	60.1	59.8	59.7	59.5	59.2	59.0	58.7	57.9	57.6	57.3	24.6	20.5	17.3	60.1	60.2	59.8	57.1	55.6	59.5	57.2	43.8	60.7	61.0	58.7	59.6
14	55.6	59.0	60.1	60.0	60.6	60.6	60.5	60.4	60.3	60.2	60.0	59.7	59.6	59.4	59.2	58.9	58.7	57.8	57.5		24.5	20.5	17.3	60.2	60.2	59.9	57.2	55.7	59.6	57.3	44.6	60.8	61.1	58.7	59.5
15	58.6	59.0	60.1	60.0	60.6	60.5	60.4	60.4	60.2	60.2	60.0	59.7	59.5	59.3	59.1	58.8	58.6	57.7	57.4	57.2	24.5	20.5	17.3	60.3	60.3	59.9	57.3	55.8	59.6	57.4	45.2	60.8	61.1	58.7	59.5
16	61.5	59.0	60.1	60.0	60.5	60.4	60.4	60.3	60.1	60.1	59.9	59.6	59.4	59.2	59.0	58.7	58.6	57.6	57.3	57.1	24.5	20.4	17.2	60.3	60.3	60.0	57.4	55.9	59.6	57.4	45.6	60.8	61.1	58.7	59.5
17	64.5	58.9	60.0	59.9	60.5	60.4	60.3	60.2	60.1	60.0	59.8	59.6	59.4	59.2	58.9	58.7	58.6	57.6	57.3	57.0	24.4	20.4	17.2	60.4	60.3	60.0	57.4	55.9	59.6	57.5	45.9	60.8	61.1	58.7	59.4
18	67.5	58.9	59.9	59.8	60.4	60.3	60.3	60.1	60.0	59.9	59.8	59.5	59.3	59.1	58.9	58.6	58.5	57.5	57.2	57.0	24.4	20.4	17.2	60.4	60.3	60.0	57.4	55.9	59.6	57.4	46.2	60.8	61.1	58.6	59.3
19	70.5	58.9	59.9	59.8	60.3	60.2	60.2	60.1	60.0	59.9	59.7	59.4	59.3	59.0	58.8	58.5	58.4	57.4	57.1	56.9	24.3	20.3	17.2	60.4	60.3	60.0	57.4	55.9	59.6	57.4	46.3	60.8	61.1	58.6	59.3
20	73.4	58.8	59.9	59.7	60.3	60.2	60.1	60.0	59.9	59.8	59.6	59.3	59.2	58.9	58.7	58.5	58.3	57.3	57.0	56.8	24.3	20.3	17.2	60.4	60.3	60.0	57.4	55.9	59.6	57.4	46.4	60.8	61.1	58.5	59.3
21	76.4	58.8	59.8	59.7	60.2	60.1	60.1	60.0	59.8	59.7	59.5	59.2	59.1	58.9	58.6	58.4	58.3	57.3	57.0	56.7	24.1	20.3	17.2	60.4	60.3	60.0	57.4	55.8	59.5	57.4	46.4	60.8	61.1	58.5	59.2
22	79.4	58.7	59.8	59.6	60.1	60.0	60.0	59.9	59.7	59.7	59.5	59.2	59.0	58.8	58.6	58.3	58.2	57.2	56.9	56.7	24.3	20.6	17.9	60.4	60.3	59.9	57.3	55.8	59.5	57.3	46.4	60.7	61.1	58.4	59.2
23	82.4	58.7	59.7	59.6	60.1	60.0	59.9	59.8	59.7	59.6	59.4	59.1	58.9	58.7	58.5	58.2	58.2	57.2	56.8	56.6	24.5	21.1	18.6	60.3	60.3	59.9	57.3	55.7	59.5	57.3	46.4	60.7	61.0	58.4	59.2
24	85.3	58.7	59.7	59.6	60.0	59.9	59.9	59.8	59.6	59.6	59.4	59.1	58.9	58.6	58.4	58.2	58.1	57.1	56.7	56.5	24.8	21.8	19.4	60.3	60.2	59.9	57.3	55.7	59.4	57.3	46.3	60.7	61.0	58.3	59.1
25	88.3	58.7	59.6	59.5	60.0	59.8	59.8	59.7	59.5	59.5	59.3	59.0	58.8	58.6	58.4	58.1	58.1	57.0	56.6	56.4	25.1	22.6	20.4	60.3	60.2	59.8	57.2	55.7	59.4	57.2	46.2	60.6	61.0	58.3	59.1
26	91.3	58.7	59.6	59.5	59.9	59.8	59.8	59.7	59.5	59.4	59.2	58.9	58.8	58.5	58.3	58.0	58.0	56.9	56.6	56.4	25.6	23.4	21.4	60.2	60.2	59.8	57.2	55.6	59.4	57.2	46.2	60.6	60.9	58.2	59.1
27	94.3	58.7	59.6	59.5	59.9	59.8	59.7	59.6	59.4	59.4	59.2	58.9	58.7	58.4	58.2	58.0	58.0	56.9	56.5	56.3	26.3	24.5	22.5	60.2	60.1	59.7	57.1	55.6	59.3	57.1	46.1	60.6	60.9	58.2	59.1
28	97.2	58.7	59.6	59.5	59.9	59.8	59.7	59.5	59.4	59.3	59.1	58.8	58.6	58.4	58.2	57.9	57.9	56.8	56.4	56.2	27.2	25.6	23.7	60.2	60.1	59.7	57.1	55.6	59.3	57.1	46.1	60.5	60.8	58.2	59.2
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Floor	Assessmen	nt 501	502	2 503	504	4 5	05	506	507	508	509	51	10 51	1	512	513	514	515	516	517	518	519	52	0 5	21	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543
1	19.9	60.8	61.3	3 62.8	62.9	9 62	2.1	61.1	61.5	61.6	61.5	61.	.3 61	.1 (61.0	60.9	60.8	60.6	57.7	51.7	49.5	54.4	57.	7 58	8.7	54.6	54.6	23.1	0.0	52.7	54.2	52.9	52.9	52.6	49.8	48.0	53.0	52.9	46.2	0.0	25.0	56.0	55.9	55.8	53.8	56.1	56.1
2	22.9	60.8	61.2	2 62.8	62.8	B 62	2.1	61.1	61.5	61.5	61.5	61.	.2 61	.1 (60.9	60.9	60.7	60.6	57.7	51.7	49.5	54.6	57.	7 58	8.9	55.2	55.1	23.1	0.0	53.3	54.7	52.9	52.9	52.6	49.8	48.0	53.0	52.9	46.2	0.0	25.0	56.0	55.9	55.8	53.8	56.1	56.1
3	25.9	60.8	61.2	2 62.8	62.8	B 62	2.0	61.0	61.5	61.5	61.5	61.	.2 61	.1 (60.9	60.9	60.7	60.6	57.7	51.6	49.5	54.9	57.	8 59	9.0	55.6	55.5	23.1	0.0	53.7	55.1	52.9	52.9	52.6	49.8	48.0	53.0	52.9	46.2	0.0	25.0	56.0	55.9	55.8	53.8	56.0	56.1
4	28.8	60.7	61.2	2 62.7	62.7	7 62	2.0	61.0	61.4	61.5	61.4	61.	.2 61	.0	60.9	60.8	60.7	60.5	57.6	51.€	49.6	55.0	57.	8 59	9.0	55.9	55.8	23.1	0.0	54.1	55.4	52.9	52.9	52.6	49.8	47.9	53.0	52.9	46.2	0.0	24.9	56.0	55.8	55.8	53.8	56.0	56.1
5	31.8	60.7	61.1	1 62.7	62.7	7 61	1.9	61.0	61.4	61.4	61.4	61.	.1 61	.0	8.06	60.8	60.6	60.5	57.6	51.6	49.5	55.1	57.	8 59	9.1	56.2	56.1	23.1	0.0	54.4	55.7	52.9	52.9	52.6	49.8	47.9	53.0	52.9	46.1	0.0	24.9	55.9	55.8	55.7	53.8	56.0	56.0
6	34.8	60.7	61.1	1 62.6	62.6	6 61	1.8	60.9	61.3	61.4	61.3	61.	.1 60	.9	8.06	60.7	60.6	60.5	57.5	51.5	49.5	55.2	57.	9 59	9.2	56.5	56.4	23.1	0.0	54.7	56.1	52.8	52.8	52.6	49.8	47.9	53.0	52.9	46.1	0.0	24.9	55.9	55.8	55.7	53.7	56.0	56.0
7	37.8	60.6	61.0	0 62.5	62.5	5 61	1.8	60.8	61.3	61.3	61.3	61.	.0 60	.9	60.7	60.7	60.5	60.4	57.5	51.5	49.5	55.4	57.	9 59	9.3	56.9	56.8	23.0	0.0	55.1	56.5	52.8	52.8	52.6	49.8	47.9	53.0	52.8	46.1	0.0	24.9	55.9	55.7	55.7	53.7	55.9	56.0
8	40.7	60.5	60.9	9 62.4	62.5	5 61	1.7	60.8	61.2	61.2	61.2	60.	.9 60	.8 (60.7	60.6	60.5	60.3	57.4	51.4	49.7	55.6	58.	0 59	9.4	57.2	57.1	23.0	0.0	55.3	56.8	52.8	52.8	52.6	49.8	47.9	53.0	52.8	46.1	0.0	24.8	55.8	55.7	55.6	53.7	55.9	56.0
9	43.7	60.4	60.8	8 62.4	62.4	4 61	1.6	60.7	61.1	61.2	61.1	60.	.9 60	.7	60.6	60.5	60.4	60.3	57.4	51.4	49.8	55.8	58.	1 59	9.5	57.5	57.4	23.0	0.0	55.5	57.0	52.8	52.8	52.6	49.7	47.9	52.9	52.8	46.1	0.0	24.8	55.8	55.7	55.6	53.7	55.8	55.9
10	46.7	60.4	60.8	8 62.3	62.3	3 61	1.5	60.6	61.0	61.1	61.0	60.	.8 60	.7	60.5	60.5	60.3	60.2	57.3	51.3	50.0	56.0	58.	1 59	9.7	57.8	57.8	23.0	0.0	55.7	57.3	52.7	52.8	52.5	49.7	47.9	52.9	52.7	46.1	0.0	24.8	55.8	55.6	55.6	53.6	55.8	55.9
11	49.7	60.3	60.7	7 62.2	62.2	2 61	1.4	60.5	60.9	61.0	61.0	60.	.7 60	.6	60.5	60.4	60.2	60.1	57.2	51.2	50.0	56.1	58.	1 59	9.7	58.1	58.0	22.9	0.0	55.8	57.5	52.7	52.8	52.5	49.7	47.9	52.9	52.7	46.1	0.0	24.8	55.7	55.6	55.5	53.6	55.7	55.8
12	52.6	60.2	60.7	7 62.1	62.	1 61	1.3	60.4	60.9	60.9	60.9	60.	.6 60	.5	60.4	60.3	60.2	60.1	57.2	51.2	50.1	56.1	58.	1 59	9.7	58.3	58.2	22.9	0.0	56.0	57.7	52.7	52.7	52.5	49.7	47.8	52.9	52.7	46.0	0.0	24.7	55.7	55.5	55.5	53.5	55.7	55.8
13	55.6	60.1	60.6	6 62.0	62.0	0 61	1.3	60.3	60.8	60.8	60.8	60.	.6 60	.4	60.3	60.2	60.1	60.0	57.1	51.1	50.1	56.1	58.	1 59	9.7	58.4	58.3	22.9	0.0	56.1	57.8	52.7	52.7	52.5	49.7	47.8	52.8	52.7	46.0	0.0	24.7	55.6	55.5	55.5	53.5	55.7	55.7
14	58.6	60.0	60.5	5 61.9	61.9	9 61	1.2	60.2	60.7	60.8	60.7	60.	.5 60	.3	60.2	60.2	60.0	59.9	57.0	51.0	50.1	56.1	58.	1 59	9.7	58.5	58.4	22.9	0.0	56.2	58.0	52.7	52.6	52.4	49.7	47.8	52.8	52.6	46.0	0.0	24.7	55.6	55.4	55.4	53.5	55.6	55.7
15	61.6	60.0	60.4	4 61.8	61.8	B 61	1.1	60.1	60.6	60.7	60.6	60.	.4 60	.3	60.2	60.1	59.9	59.8	57.0	51.0	50.1	56.2	58.	1 59	9.7	58.6	58.6	22.8	0.0	56.3	58.1	52.6	52.6	52.4	49.6	47.8	52.7	52.6	46.0	0.0	24.6	55.5	55.4	55.3	53.5	55.5	55.6
16	64.5	59.9	60.3	3 61.7	61.7	7 61	1.0	60.0	60.5	60.6	60.5	60.	.3 60	.2	60.1	60.0	59.9	59.8	56.9	50.9	50.1	56.2	58.	0 59	9.8	58.7	58.7	22.8	0.0	56.4	58.2	52.6	52.6	52.4	49.6	47.8	52.7	52.6	46.0	0.0	24.6	55.5	55.4	55.3	53.4	55.5	55.6
17	67.5	59.8	60.2	2 61.6	61.6	6 60	0.9	59.9	60.4	60.5	60.4	60.	.2 60	.1 (60.0	59.9	59.8	59.7	56.8	50.8	50.1	56.2	58.	0 59	9.7	58.8	58.8	22.8	0.0	56.5	58.3	52.6	52.6	52.3	49.6	47.8	52.7	52.6	45.9	0.0	24.5	55.4	55.3	55.2	53.4	55.5	55.5
18	70.5	59.7	60.1	1 61.5	61.5	5 60	0.8	59.8	60.3	60.4	60.3	60.	.1 60	.0	59.9	59.8	59.7	59.6	56.7	50.7	50.2	56.2	58.	0 59	9.7	58.9	58.8	22.8	0.0	56.6	58.4	52.5	52.6	52.3	49.6	47.7	52.7	52.5	45.9	0.0	24.5	55.4	55.2	55.2	53.4	55.4	55.4
19	73.5	59.6	60.0	0 61.4	61.4	4 60).7	59.7	60.2	60.3	60.2	60.	.0 59	.9	59.8	59.7	59.6	59.5	56.6	50.7	50.2	56.2	57.	9 59	9.7	58.9	58.9	22.7	0.0	56.6	58.5	52.5	52.5	52.3	49.6	47.7	52.6	52.5	45.9	0.0	24.5	55.3	55.2	55.1	53.3	55.4	55.4
20	76.4	59.5	59.9	9 61.3	61.3	3 60	0.5	59.6	60.1	60.2	60.1	60.	.0 59	.8	59.7	59.7	59.5	59.4	56.6	50.6	50.3	56.2	57.	9 59	9.7	59.0	58.9	22.7	0.0	56.7	58.5	52.5	52.5	52.2	49.5	47.7	52.6	52.4	45.9	0.0	24.4	55.3	55.2	55.1	53.3	55.3	55.3
21	79.4	59.4	59.8	8 61.2	61.2	2 60).4	59.5	60.0	60.1	60.0	59.	.9 59	.7	59.6	59.6	59.4	59.3	56.5	50.5	50.3	56.2	57.	9 59	9.6	59.0	59.0	22.6	0.0	56.8	58.6	52.4	52.4	52.2	49.5	47.7	52.5	52.4	45.8	0.0	24.4	55.2	55.1	55.0	53.2	55.2	55.3
22	82.4	59.3	59.7	7 61.1	61.1	1 60	0.3	59.5	59.9	60.0	59.9	59.	.8 59	.6	59.5	59.5	59.3	59.3	56.4	50.4	50.3	56.2	57.	8 59	9.6	59.0	59.0	22.6	0.0	56.8	58.7	52.4	52.4	52.1	49.5	47.7	52.5	52.4	45.8	0.0	24.3	55.2	55.0	55.0	53.2	55.2	55.2
23	85.4	59.3	59.6	6 61.0	61.0	0 60	0.2	59.4	59.8	59.9	59.8	59.	.7 59	.5	59.5	59.4	59.2	59.2	56.3	50.3	50.3	56.1	57.	7 59	9.6	59.1	59.0	22.6	0.0	56.8	58.7	52.4	52.4	52.1	49.5	47.6	52.5	52.3	45.8	0.0	24.0	55.1	55.0	54.9	53.1	55.1	55.1
24	88.3	59.2	59.6	6 60.9	60.9	9 60	0.1	59.3	59.7	59.8	59.8	59.	.6 59	.5	59.4	59.3	59.2	59.1	56.2	50.3	50.3	56.1	57.	7 59	9.5	59.1	59.0	23.4	0.0	56.9	58.7	52.4	52.3	52.1	49.4	47.6	52.5	52.3	45.8	0.0	24.5	55.0	54.9	54.9	53.1	55.1	55.1
25	91.3	59.1	59.5	5 60.8	60.8	B 60	0.0	59.2	59.6	59.7	59.7	59.	.5 59	.4	59.3	59.2	59.1	59.0	56.2	50.2	50.4	56.1	57.	6 59	9.5	59.1	59.0	25.7	0.0	56.9	58.8	52.3	52.3	52.0	49.4	47.6	52.4	52.3	45.7	0.0	26.7	55.0	54.8	54.8	53.1	55.0	55.0
26	94.3	59.0	59.4	4 60.7	60.7	7 59	9.9	59.1	59.5	59.6	59.6	59.	.4 59	.3	59.2	59.1	59.0	58.9	56.1	50.2	50.3	56.0	57.	6 59	9.4	59.1	59.0	29.0	0.0	56.9	58.8	52.3	52.3	52.0	49.4	47.6	52.4	52.2	45.7	0.0	30.2	54.9	54.8	54.7	53.0	54.9	54.9
27	97.3	58.9	59.3	3 60.6	60.6	6 59	9.8	59.0	59.4	59.5	59.5	59.	.3 59	2	59.1	59.1	58.9	58.8	56.0	50.2	50.4	56.0	57.	5 59	9.4	59.1	59.0	33.8	0.0	56.9	58.8	52.2	52.2	52.0	49.3	47.5	52.3	52.2	45.8	0.0	36.9	54.9	54.7	54.7	53.0	54.8	54.9
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	Noise																									Tower 6																					
Floor	Assessme	ent 6	601	602	603	604	605	606	607	7 6	08	609	610	611	612	613	614	615	610	6	17	618	619	620	621	622	623	62	24 6	25 62	16 62	7 628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643
1	22.9	6	0.5	32.7	9.9 5	8.7	49.1	28.6	28.€	3 44	1.9	48.0	45.9	46.2	45.1	49.4	49.2	49.1	61.	59	.1 :	31.2	31.7	60.9	62.4	69.5	69.6	68.	.2 67	7.7 69	.0 70.	3 69.5	70.6	70.6	70.6	70.5	71.2	71.2	70.0	69.7	69.0	70.0	68.3	67.6	68.0	69.3	69.1
2	25.9	6	0.4	32.5	9.8	8.7	49.1	28.6	28.5	5 44	1.9	48.0	45.9	46.2	45.1	49.3	49.2	49.0	60.9	58	.9 :	31.2	31.7	60.7	62.3	69.2	69.2	67.	.8 67	'.3 68	.6 69.	8 69.0	70.0	70.0	70.1	70.0	70.7	70.6	69.5	69.2	68.5	69.5	67.8	67.2	67.6	68.8	68.7
3	28.9	6	0.2	32.3	9.7	8.6	49.1	28.6	28.5	5 44	1.9	48.0	45.9	46.2	45.1	49.3	49.2	49.0	60.8	58	.8 :	31.1	31.6	60.6	62.1	68.8	68.8	67.	.5 66	68 8	.1 69.	3 68.4	69.5	69.5	69.6	69.4	70.1	70.1	69.0	68.7	68.0	68.9	67.4	66.8	67.2	68.5	68.4
4	31.8	6	0.1	32.2	9.6	8.5	49.1	28.6	28.5	5 44	1.9	48.0	45.9	46.2	45.1	49.3	49.2	49.0	60.7	58	.7	31.1	31.6	60.5	61.9	68.4	68.4	67.	.1 66	6.4	.7 68.	8 67.9	68.9	69.0	69.0	68.9	69.6	69.5	68.5	68.2	67.5	68.4	67.0	66.4	66.8	68.0	68.0
5	34.8	6	0.0	32.0	9.5	8.5	49.1	28.6	28.5	5 44	1.9	48.0	45.8	46.2	45.0	49.3	49.2	49.0	60.	58	.6	31.0	31.5	60.3	61.7	68.0	68.0	66.	.7 66	6.0	.3 68.	3 67.5	68.5	68.6	68.6	68.5	69.1	69.1	68.0	67.7	67.0	68.0	66.6	66.0	66.4	67.6	67.6
6	37.8	5	9.8	31.8	9.4	8.4	49.0	28.6	28.5	5 44	1.9	48.0	45.8	46.2	45.0	49.3	49.1	49.0	60.3	58	.4	31.0	31.5	60.1	61.5	67.7	67.6	66.	.3 65	66	.9 67.	9 67.0	68.0	68.1	68.2	68.0	68.6	68.7	67.6	67.3	66.6	67.5	66.2	65.7	66.0	67.3	67.3
7	40.8	5	9.7	61.6	9.3	8.3	49.0	28.5	28.5	5 44	8.1	47.9	45.8	46.2	45.0	49.2	49.1	49.0	60.2	58	.3	31.0	31.4	59.9	61.2	67.3	67.3	66.	.0 65	.3 66	.5 67.	5 66.6	67.6	67.7	67.8	67.6	68.3	68.2	67.2	66.9	66.2	67.1	65.9	65.3	65.7	66.9	67.0
8	43.7	5	9.5	31.4	9.2	8.2	49.0	28.5	28.5	5 44	8.1	47.9	45.8	46.1	45.0	49.2	49.1	48.9	60.0	58	.1 :	30.9	31.3	59.7	61.0	67.0	67.0	65.	.7 65	.0 66	.2 67.	2 66.3	67.3	67.4	67.4	67.3	67.9	67.9	66.8	66.5	65.8	66.8	65.6	65.0	65.3	66.6	66.6
9	46.7		9.3		9.1 5	8.1	48.9	28.5	28.5	5 44	8.1	47.9	45.7	46.1	44.9	49.2	49.1	48.9	59.9	58		30.9	31.3	59.5	60.8	66.7		65.					66.9	67.0	67.1	66.9	67.5	67.5	66.5	66.2	65.5	66.5	65.2	64.8	65.1	66.3	66.3
10	49.7	5	9.2	31.1	8.9	8.0	48.9	28.5	28.4	44	1.7	47.9	45.7	46.1	44.9	49.1	49.1	48.9	59.6	57	.8	30.9	31.2	59.3	60.6	66.4	66.4	65.	.1 64	1.4 65	.6 66.	5 65.6	66.6	66.7	66.7	66.6	67.2	67.2	66.1	65.8	65.1	66.2	65.0	64.5	64.8	66.1	66.1
11	52.7	5	9.0	30.9	8.8	7.8	48.9	28.5	28.4	44	1.7	47.8	45.7	46.0	44.9	49.1	49.0	48.9	59.	5 57	.6	30.8	31.2	59.2	60.4	66.1	66.1	64.	.8 64	1.1 65	.3 66.	2 65.3	66.3	66.4	66.5	66.3	66.9	66.9	65.8	65.5	64.8	65.9	64.7	64.2	64.5	65.8	65.8
12	55.6	5	8.9	30.7	8.7	7.8	48.8	28.5	28.4	44	1.7	47.8	45.7	46.0	44.9	49.1	49.0	48.8	59.3	57	.4	30.7	31.1	59.0	60.2	65.9	65.8	64.	.6 63	8.8 65	.0 65.	9 65.0	66.0	66.1	66.2	66.0	66.7	66.6	65.5	65.2	64.5	65.6	64.4	63.9	64.3	65.5	65.5
13	58.6	5	8.7	30.5	8.6	7.6	48.8	28.5	28.4	44	1.6	47.8	45.6	46.0	44.8	49.0	49.0	48.8	59.2	2 57	.3	30.7	31.1	58.9	60.0	65.7	65.5	64.	.3 63	3.6 64	.8 65.	6 64.7	65.7	65.8	65.9	65.8	66.4	66.3	65.3	65.0	64.3	65.4	64.1	63.7	64.0	65.3	65.3
14	61.6			30.4	8.5 5	7.5	48.7	28.4		44	1.6		45.6	45.9	44.8	49.0	48.9		59.0	57			31.0	58.7	59.9	65.5							65.5	65.6	65.7	65.5	66.1	66.0	65.0	64.7	64.0	65.1	64.0	63.5	63.7	65.1	65.0
15	64.6		8.4	60.2	8.3 5	7.4	48.7	28.4			1.5	47.7	45.5	45.9	44.7	48.9	48.9	48.7	58.9	57	.0	30.6	31.0	58.5	59.7	65.2		63.	.9 63	3.1 64			65.3	65.3	65.4	65.3	65.9	65.8	64.8	64.5	63.8	64.9	63.8	63.2	63.5	64.8	64.8
16	67.5		8.3	60.0	8.2 5	7.3	48.7	28.4	28.3	3 44	1.5	47.6	45.5	45.8	44.7	48.9	48.9	48.6	58.	56	.9	30.6	30.9	58.3	59.5	65.0	64.8	63.	.6 62	2.9 64	.1 65.	0 64.0	65.0	65.1	65.2	65.0	65.7	65.6	64.5	64.2	63.6	64.7	63.5	63.0	63.3	64.6	64.7
17	70.5	5	8.2	59.9	8.1 5	7.2	48.6	28.4	28.3	3 44	1.5	47.6	45.4	45.8	44.7	48.9	48.8	48.6	58.	56	.7	30.5	30.8	58.2	59.3	64.8	64.7	63.	.4 62	2.6 63	.9 64.	8 63.8	64.8	64.9	65.0	64.8	65.4	65.3	64.3	64.0	63.3	64.4	63.3	62.8	63.1	64.4	64.5
18	73.5		8.0	59.7	8.0	7.1	48.6	28.2	28.1				45.4	45.8	44.6	48.8	48.8		58.4	56		30.4	30.5	58.0	59.2	64.6		63.	.2 62				64.6	64.7	64.8	64.6	65.2	65.1	64.1	63.8	63.1	64.2	63.1	62.6	62.9	64.2	64.3
19	76.5				7.9	7.0	48.5	28.2					45.4	45.7	44.6	48.8	48.7		58.3				30.5	57.8	59.0	64.4							64.4		64.6				63.9	63.6	62.9	64.1	62.9	62.5		64.0	64.1
20	79.4		7.8		7.7	6.9		28.2					45.3	45.7	44.5	48.7	48.7	48.4	58.	56		30.4	30.6	57.7	58.9	64.2		62.					64.2	64.3	64.4	64.2	64.8	64.7	63.7	63.4	62.7	63.9	62.8	62.3	62.5	63.8	63.9
21	82.4		7.7	59.3	7.7	6.8	48.4	28.3	28.3	3 44	1.3	47.4	45.3	45.6	44.5	48.7	48.6	48.4	57.9	56	.2	30.4	30.7	57.5	58.7	64.1	64.0	62.	.7 6'	.9 63	.1 64.	0 63.0	64.0	64.1	64.2	64.0	64.7	64.6	63.5	63.2	62.6	63.8	62.6	62.1	62.3	63.7	63.7
22	85.4		7.5	59.2	7.5	6.7	48.3	28.5	28.5	5 44	1.2	47.3	45.2	45.6	44.4	48.6	48.6	48.3	57.8	56	.0	30.5	30.8	57.4	58.6	63.9	63.8	62.	.6 6'	.7 62	.9 63.		63.9	64.0	64.1	63.9	64.5	64.4	63.4	63.1	62.4	63.6	62.5	62.0	62.1	63.6	63.6
23	88.4	5	7.4	59.1	7.4	6.6	48.3	28.9	28.8	3 44	1.2	47.3	45.2	45.5	44.4	48.6	48.5	48.3	57.	55	.9	30.6	30.8	57.3	58.4	63.7	63.6	62.	.4 6	.5 62	.8 63.	7 62.7	63.7	63.8	63.9	63.7	64.3	64.2	63.2	62.9	62.3	63.4	62.3	61.8	62.0	63.4	63.4
24	91.3	,	7.3	38.0	17.0	6.5	48.2	29.1	29.1		.1	47.2	45.1	45.5	44.4	48.5	48.5	48.3	57.5	5 55		30.7	30.9	57.2	58.3	63.6		62.	.3 6	.4 62			63.5	63.6	63.7	63.5	64.1	64.1	63.0	62.7	62.1	63.3	62.1	61.6	61.8	63.2	63.3
25	94.3		7.2	30.0	7.2 5	6.4	48.2	29.7	29.7				45.1	45.4	44.4	48.5	48.4	48.2	57.4	55		31.2	31.5	57.1	58.2	63.4	63.3	62.		.2 02			63.4	63.5	63.6	63.4	64.0	63.9	62.9	62.6	62.0	63.1	62.0	61.5	61.7	63.1	63.2
26	97.3	_	7.1	30.7	7.1 5	6.3	48.1	30.3	30.4				45.1	45.5	44.3	48.4	48.4		57.3	55		32.0	32.3	56.9	58.1	63.3	63.2	62.	.0 0	02			63.2	63.3	63.4	63.2	63.8	63.7	62.7	62.4	61.8	62.9	61.8	61.3	61.5	62.9	63.0
27	100.3	5	7.0	58.6	7.0	6.2	48.0	31.1	31.2	2 44	1.0	47.2	45.0	45.4	44.4	48.4	48.4	48.1	57.3	2 55	.4	32.8	33.9	56.8	57.9	63.1	63.0	61.	.8 60).9 62	.1 63.	1 62.1	63.1	63.2	63.3	63.1	63.7	63.6	62.6	62.3	61.7	62.8	61.7	61.2	61.4	62.8	62.9
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Floor	Assessment	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739
1	8.7	59.0	59.3	59.5	59.7	60.0	60.0	60.1	60.5	60.5	60.9	61.1	61.0	61.6	57.6	65.9	71.2	69.6	69.8	70.4	70.9	72.7	72.6	71.0	70.4	70.1	69.9	69.4	69.3	68.8	68.4	68.1	67.8	66.8	66.2	57.9	59.2	37.4	37.5	36.7
2	11.7	59.0	59.3	59.5	59.6	60.0	60.0	60.0	60.5	60.4	60.8	61.0	61.0	61.5	57.5	65.8	71.1	69.4	69.6	70.2	70.6	72.3	72.2	70.8	70.2	70.0	69.8	69.3	69.2	68.7	68.3	68.1	67.7	66.7	66.1	57.8	59.2	37.7	37.6	36.7
3	14.7	58.9	59.2	59.5	59.6	59.9	59.9	60.0	60.4	60.4	60.8	61.0	60.9	61.4	57.4	65.6	70.7	69.1	69.3	69.8	70.2	71.9	71.8	70.5	69.9	69.8	69.6	69.2	69.0	68.6	68.2	68.0	67.6	66.6	66.1	57.9	59.1	37.9	37.8	36.9
4	17.6	58.9	59.2	59.4	59.5	59.9	59.9	59.9	60.3	60.3	60.7	60.8	60.8	61.3	57.3	65.4	70.5	68.8	69.0	69.5	69.9	71.4	71.3	70.2	69.7	69.6	69.4	69.0	68.9	68.4	68.1	67.9	67.5	66.5	66.0	57.8	59.1	38.3	38.0	37.0
5	20.6	58.8	59.1	59.3	59.4	59.8	59.8	59.8	60.2	60.2	60.6	60.7	60.6	61.1	57.2	65.2	70.1	68.5	68.7	69.1	69.5	70.9	70.9	69.9	69.4	69.3	69.2	68.8	68.7	68.3	68.0	67.7	67.4	66.4	65.9	57.7	59.1	38.7	38.2	37.1
6	23.6	58.8	59.1	59.3	59.4	59.7	59.7	59.7	60.1	60.1	60.5	60.6	60.5	61.0	57.0	65.0	69.8	68.2	68.3	68.8	69.1	70.6	70.5	69.6	69.1	69.1	69.0	68.6	68.6	68.1	67.8	67.6	67.3	66.3	65.7	57.7	59.0	39.1	38.4	37.2
7	26.6	58.7	59.0	59.2	59.3	59.6	59.6	59.6	60.0	60.0	60.3	60.4	60.3	60.8	56.9	64.7	69.5	67.9	68.0	68.4	68.7	70.2	70.2	69.3	68.9	68.8	68.7	68.5	68.4	68.0	67.7	67.5	67.1	66.2	65.6	57.7	59.0	39.5	38.6	37.3
8	29.5	58.6	58.9	59.1	59.2	59.5	59.5	59.5	59.9	59.8	60.2	60.3	60.2	60.6	56.7	64.4	69.2	67.6	67.7	68.1	68.3	69.9	69.9	69.0	68.6	68.6	68.5	68.3	68.2	67.8	67.5	67.3	67.0	66.1	65.5	57.6	58.8	39.7	38.8	37.4
9	32.5	58.6	58.8	59.0	59.1	59.4	59.4	59.4	59.8	59.7	60.0	60.1	60.0	60.4	56.5	64.2	69.0	67.3	67.4	67.8	68.0	69.6	69.6	68.8	68.4	68.4	68.3	68.1	68.0	67.7	67.4	67.2	66.8	65.9	65.3	57.5	58.8	39.9	38.8	37.4
10	35.5	58.5	58.7	59.0	59.0	59.3	59.3	59.3	59.6	59.6	59.9	60.0	59.9	60.2	56.3	64.0	68.6	67.1	67.1	67.5	67.7	69.3	69.3	68.5	68.2	68.2	68.2	67.9	67.9	67.5	67.2	67.0	66.7	65.8	65.2	57.5	58.8	40.0	38.9	37.5
11	38.5	58.4	58.7	58.8	58.9	59.2	59.2	59.2	59.5	59.5	59.7	59.8	59.7	60.0	56.2	63.7	68.4	66.8	66.9	67.2	67.5	69.1	69.1	68.4	68.1	68.1	68.0	67.8	67.7	67.4	67.1	66.9	66.6	65.7	65.1	57.4	58.7	40.0	39.0	37.5
12	41.4	58.3	58.6	58.7	58.8	59.1	59.0	59.1	59.4	59.3	59.6	59.6	59.5	59.8	56.0	63.5	68.2	66.6	66.6	66.9	67.2	68.8	68.9	68.2	67.9	67.9	67.8	67.6	67.6	67.2	67.0	66.8	66.4	65.6	65.0	57.3	58.7	40.1	39.0	37.5
13	44.4	58.2	58.5	58.6	58.7	59.0	58.9	58.9	59.3	59.1	59.4	59.5	59.4	59.7	55.8	63.3	68.0	66.4	66.4	66.7	67.0	68.6	68.7	68.0	67.7	67.8	67.7	67.5	67.5	67.1	66.8	66.7	66.3	65.5	64.8	57.3	58.7	40.2	39.0	37.5
14	47.4	58.1	58.4	58.5	58.6	58.9	58.8	58.8	59.1	59.1	59.3	59.3	59.2	59.5	55.7	63.1	67.8	66.2	66.1	66.5	66.7	68.4	68.6	67.9	67.6	67.6	67.6	67.4	67.4	67.0	66.7	66.5	66.2	65.3	64.8	57.2	58.7	40.2	39.1	37.5
15	50.4	58.0	58.3	58.4	58.5	58.7	58.7	58.7	59.0	58.9	59.1	59.1	59.0	59.3	55.5	62.9	67.6	66.0	66.0	66.3	66.5	68.2	68.4	67.7	67.5	67.5	67.4	67.2	67.2	66.9	66.6	66.4	66.1	65.2	64.6	57.2	58.7	40.3	39.1	37.4
16	53.3	57.9	58.2	58.3	58.4	58.6	58.5	58.5	58.9	58.7	59.0	59.0	58.9	59.1	55.3	62.7	67.5	65.8	65.8	66.1	66.3	68.1	68.3	67.6	67.4	67.3		67.1	67.1	66.8	66.5	66.3	66.0	65.2	64.5	57.1	58.7	40.3	39.1	37.4
17	56.3	57.8	58.1	58.2	58.2	58.5	58.4	58.4	58.7	58.6	58.8	58.9	58.7	58.9	55.2	62.5	67.3	65.7	65.6	65.9	66.2	67.9	68.1	67.5	67.3	67.2	67.2	67.0	67.0	66.7	66.4	66.3	65.9	65.0	64.4	57.1	58.7	40.3	39.1	37.4
18	59.3	57.7	58.0	58.1	58.1	58.4	58.3	58.3	58.6	58.5	58.7	58.7	58.5	58.8	55.0	62.3	67.1	65.5	65.4	65.7	66.0	67.8	68.0	67.4	67.2	67.1	67.1	66.9	66.9	66.6	66.3	66.1	65.8	64.9	64.3	57.0	58.7	40.2	39.0	37.3
19	62.3	57.6	57.9	58.0	58.1	58.2	58.2	58.2	58.5	58.3	58.6	58.6	58.4	58.6	54.9	62.1	67.0	65.4	65.3	65.6	65.9	67.6	67.9	67.3	67.1	67.0	67.0	66.8	66.8	66.5	66.2	66.0	65.8	64.9	64.2	57.0	58.7	40.3	39.1	37.3
20	65.2	57.5	57.8	57.8	57.9	58.2	58.1	58.0	58.3	58.2	58.4	58.4	58.2	58.4	54.7	61.9	66.8	65.2	65.1	65.4	65.7	67.5	67.8	67.2	67.0	66.9	66.9	66.8	66.8	66.4	66.2	65.9	65.7	64.8	64.1	57.0	58.8	40.3	39.1	37.4
21	68.2	57.4	57.6	57.8	57.8	58.1	57.9	57.9	58.2	58.1	58.3	58.3	58.1	58.3	54.6	61.7	66.7	65.1	65.0	65.3	65.6	67.4	67.7	67.1	66.9	66.9	66.8	66.7	66.7	66.3	66.1	65.9	65.5	64.7	64.0	56.9	58.7	40.4	39.2	37.5
22	71.2	57.3	57.5	57.7	57.7	57.9	57.8	57.8	58.1	57.9	58.2	58.1	57.9	58.2	54.5	61.6	66.6	65.0	64.8	65.2	65.4	67.3	67.6	67.0	66.8	66.8	66.8	66.6	66.6	66.3	66.0	65.8	65.5	64.6	64.0	56.9	58.7	40.5	39.4	37.7
23	74.2	57.2	57.4	57.6	57.6	57.8	57.7	57.7	57.9	57.8	58.0	58.0	57.8	58.0	54.3	61.5	66.5	64.9	64.7	65.0	65.3	67.2	67.5	67.0	66.7	66.7	66.7	66.5	66.5	66.2	65.9	65.7	65.4	64.5	63.9	56.9	58.7	40.6	39.6	37.9
24	77.1	57.1	57.4	57.5	57.5	57.7	57.6	57.5	57.8	57.7	57.9	57.9	57.7	57.8	54.2	61.3	66.4	64.8	64.6	64.9	65.2	67.0	67.4	66.9	66.7	66.6	66.6	66.5	66.4	66.1	65.8	65.7	65.3	64.5	63.8	56.8	58.7	40.7	39.8	38.1
25	80.1	57.0	57.2	57.4	57.4	57.6	57.5	57.4	57.7	57.5	57.8	57.7	57.5	57.8	54.0	61.1	66.3	64.7	64.5	64.8	65.1	67.0	67.3	66.8	66.6	66.6	66.5	66.4	66.4	66.0	65.8	65.6	65.3	64.4	63.7	56.8	58.7	41.0	40.2	38.7
26	83.1	56.9	57.1	57.3	57.2	57.5	57.4	57.3	57.6	57.5	57.7	57.6	57.4	57.6	54.0	61.0	66.2	64.6	64.4	64.7	65.0	66.9	67.2	66.7	66.5	66.5	66.5	66.3	66.3	66.0	65.7	65.5	65.2	64.3	63.7	56.9	58.7	41.4	40.8	39.3
27	86.1	56.8	57.1	57.2	57.1	57.4	57.2	57.3	57.5	57.3	57.5	57.5	57.3	57.5	53.8	60.8	66.1	64.5	64.2	64.6	64.8	66.8	67.1	66.6	66.5	66.5	66.4	66.2	66.2	65.9	65.6	65.4	65.1	64.3	63.6	56.8	58.8	41.9	41.5	40.1
28	89.0	56.8	57.0	57.1	57.1	57.3	57.1	57.1	57.4	57.2	57.4	57.4	57.2	57.4	53.7	60.7	66.0	64.4	64.2	64.5	64.7	66.7	67.1	66.6	66.4	66.4	66.3	66.2	66.1	65.8	65.6	65.4	65.1	64.2	63.5	56.9	58.7	42.5	42.2	41.0
29	92.0	56.7	56.9	57.0	57.0	57.2	57.1	57.0	57.3	57.1	57.3	57.3	57.1	57.2	53.7	60.6	65.9	64.3	64.0	64.4	64.6	66.6	67.0	66.5	66.3	66.3	66.3	66.1	66.1	65.8	65.5	65.3	65.0	64.1	63.5	57.1	58.8	43.2	43.1	41.9
30	95.0	56.6	56.8	56.9	56.9	57.1	57.0	56.9	57.2	57.0	57.2	57.2	56.9	57.1	54.1	60.4	65.8	64.2	64.0	64.4	64.7	66.5	66.9	66.5	66.3	66.3	66.2	66.1	66.1	65.7	65.5	65.3	65.0	64.1	63.5	57.6	58.8	44.0	44.2	42.9

CT608-3, Table Page 7 of 7

Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po, New Territories Environmental Noise Impact Assessment

APPENDIX 4

PREDICTED FAÇADE NOISE LEVELS FOR ROAD TRAFFIC NOISE (WITH NOISE MITIGATION MEASURES)

Report: 22608-N1 Rev A

Job No. : 22608 Job Title : Fung Yuen Scenario : 2045 Traffic Forecast, AM Peak, Unmitigated

	mPD Level of	Receive	r																																					$\overline{}$
	Noise																				Tower 1																			
Floor	Assessment	101	102	103			106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139
1	16.9	65.0	65.7	67.9	68.4	68.2	68.1	68.2	68.3	68.0	68.2	68.0	68.0	68.2	68.4	68.6	68.9	68.0	67.8	69.9	69.8	69.0	65.3	61.9	35.7	35.0	35.5	35.0	34.9	34.9	34.8	35.1	45.0	48.9	45.1	44.7	43.5	64.6	64.5	64.4
2	19.9	64.9	65.5	67.6	68.1	68.0	67.9	67.9	68.0	67.8	67.9	67.8	67.7	67.9	68.1	68.2	68.6	67.8	67.6	69.8	69.7	69.0	65.2	61.8	35.7	35.0	35.5	35.0	34.9	34.9	34.8	35.1	45.8	49.7	47.5	47.1	45.6	64.5	64.4	64.3
3	22.9	64.7		67.4	67.8	67.7	67.6	67.7	67.7	67.5	67.7	67.5	67.5	67.6	67.8	67.9	68.3	67.6	67.5	69.7	69.6	68.9	65.2	61.7	35.7	35.0	35.5	35.0	34.9	34.9	34.8	35.1	46.4	50.4	49.4	49.0	46.8	64.4	64.2	64.2
4	25.8	64.5	65.0	67.1	67.5	67.4	67.4	67.4	67.5	67.3	67.4	67.2	67.2	67.3	67.4	67.5	68.0	67.3	67.2	69.6	69.5	68.8		61.7	35.7	35.0	35.5	35.0	34.9	34.9	34.8	35.1	46.7	50.8	50.5	50.0	47.5	64.2	64.1	64.0
5	28.8	64.2	64.8	66.8	67.2	67.1	67.1	67.1	67.2	67.0	67.1	66.9	66.9	67.0	67.1	67.2	67.7	67.1	67.0	69.4	69.3	68.7	65.0	61.6	35.7	35.0	35.5	35.0	34.9	34.9	34.8	35.1	46.9	51.2	51.1	50.6	48.0	64.1	63.9	63.8
6	31.8	64.0	64.5	66.5	67.0	66.9	66.8	66.9	66.9	66.7	66.8	66.7	66.6	66.8	66.9	66.9	67.4	66.9	66.8	69.3	69.2	68.6	65.0	61.5	35.7	35.0	35.5	34.9	34.9	34.9	34.8	35.1	47.0	51.3	51.8	51.3	48.2	63.9	63.7	63.6
7	34.8	63.8	64.3	66.2	66.7	66.6	66.6	66.6	66.7	66.5	66.6	66.5	70.4	66.5	66.6	66.6	67.2	66.7	66.7	69.2	69.1	68.5	64.9	61.5	35.7	35.0	35.5	34.9	34.9	34.9	34.8	35.0	47.1	51.5	52.2	51.7	48.7	63.7	63.5	63.4
8	37.7	63.5	64.0	66.0	66.5	70.4	70.4	70.4	70.4	70.3	70.4	70.2	70.1	70.3	70.4	70.4	66.9	66.5	66.5	69.1	69.0	68.3	64.8	61.4	35.7	35.0	35.5	34.9	34.9	34.9	34.8	35.0	47.1	51.5	52.5	51.9	48.9	63.5	63.3	63.2
9	40.7	63.3	63.7	65.7	70.3	70.2	70.2	70.2	70.2	70.1	70.2	70.0	69.9	70.0	70.2	70.1	66.8	70.4	70.3	69.0	68.9	68.2	64.8	61.3	35.6	35.0	35.4	34.9	34.9	34.8	34.8	35.0	47.1	51.5	52.8	52.2	49.3	63.4	63.1	63.0
10	43.7	63.1	63.5	65.4	70.1	70.0	69.9	70.0	70.0	69.9	70.0	69.8	69.7	69.8	69.9	69.9	66.6	70.2	70.3	68.9	68.7	68.2	64.7	61.3	35.6	35.0	35.4	34.9	34.9	34.8	34.8	35.0	47.1	51.6	52.9	52.4	49.6	63.2	62.9	62.7
11	46.7	62.8	63.3	65.2	69.9	69.8	69.7	69.8	69.8	69.7	69.8	69.6	69.5	69.6	69.7	69.7	70.4	70.1	70.1	68.8	68.7	68.1	64.6	61.2	35.6	34.9	35.4	34.9	34.9	34.8	34.8	35.0	47.1	51.5	52.9	52.4	49.9	63.0	62.7	62.5
12	49.6	62.6	63.0	64.9	69.7	69.6	69.6	69.7	69.7	69.5	69.6	69.4	69.3	69.5	69.6	69.5	70.3	69.9	70.0	68.7	68.6	68.0	64.6	61.1	35.6	34.9	35.4	34.9	34.8	34.8	34.8	35.0	47.0	51.5	53.0	52.5	50.0	62.8	62.5	62.3
13	52.6	62.4	62.8	64.7	69.5	69.4	69.4	69.5	69.5	69.3	69.5	69.3	69.2	69.3	69.4	69.4	70.1	69.9	69.9	68.6	68.5	68.0	64.5	61.1	35.5	34.9	35.4	34.9	34.8	34.8	34.7	35.0	47.0	51.5	53.0	52.5	50.1	62.6	62.3	62.1
14	55.6	62.2	62.6	64.5	69.4	69.3	69.3	69.4	69.4	69.2	69.3	69.1	69.0	69.2	69.3	69.2	70.0	69.7	69.8	68.5	68.4	67.9	64.4	61.0	35.5	34.9	35.4	34.8	34.8	34.7	34.7	34.9	46.9	51.4	53.0	52.5	50.1	62.4	62.2	61.9
15	58.6	62.0	62.4	64.2	69.3	69.2	69.1	69.2	69.2	69.1	69.2	69.0	68.9	69.0	69.1	69.1	69.9	69.6	69.7	68.5	68.3	67.8	64.4	60.9	35.5	34.9	35.3	34.8	34.8	34.7	34.7	34.9	46.9	51.4	53.0	52.4	50.2	62.3	62.0	61.7
16	61.5	61.8		64.0	69.1	69.0	69.0	69.1	69.1	68.9	69.0	68.9	68.8	68.9	69.0	69.0	69.8	69.5	69.6	68.4	68.3	67.8	64.3		35.5	34.8	35.3	34.8	34.8	34.7	34.6	34.9	46.8	51.3	52.9	52.5	50.2	62.1	61.8	61.6
17	64.5	61.6	62.0	63.8	69.0	68.9	68.9	69.0	69.0	68.8	68.9	68.7	68.7	68.8	68.9	68.8	69.7	69.5	69.5	68.4	68.2	67.7	64.2	60.8	35.4	34.7	35.2	34.7	34.7	34.7	34.7	34.9	46.8	51.3	52.9	52.4	50.2	61.9	61.6	61.4
18	67.5	61.4	61.8	63.6	68.9	68.8	68.8	68.8	68.9	68.7	68.8	68.6	68.5	68.7	68.7	68.7	69.6	69.4	69.4	68.3	68.2	67.6	64.2	60.8	35.7	35.0	35.6	35.1	35.0	35.0	35.0	35.2	46.7	51.2	52.9	52.4	50.2	61.8	61.4	61.2
19	70.5	61.2	61.6	63.4		68.7		68.7	68.7	68.6	68.7	68.5	68.4	68.6	68.6	68.6	69.5	69.3	69.3	68.3	68.1	67.6	64.1	60.7	36.4	35.7	36.2	35.7	35.7	35.8	35.6	35.9	46.7	51.1	52.8	52.4	50.2	61.6	61.3	61.0
20	73.4	61.1	61.4	63.3	68.7	68.6	68.6	68.6	68.6	68.5	68.6	68.4	68.3	68.5	68.5	68.5	69.4	69.2	69.3	68.2	68.0	67.5	64.1	60.7	37.5	36.8	37.3	36.8	36.8	36.9	36.6	36.9	46.7	51.1	52.8	52.3	50.2	61.5	61.1	60.9
21	76.4	60.9		63.1		68.5		68.5	68.5	68.4	68.5		68.2	68.3	68.4	68.4	69.4	69.1	69.2	68.1	68.0	67.5	64.0	60.6	38.8	38.1	38.6	38.1	38.0	38.2	37.8	38.1	46.9	51.1	52.8	52.3	50.2	61.3	61.0	60.7
22	79.4	60.7		62.9	68.5	68.4	68.4	68.4	68.5	68.3	68.4	68.2	68.1	68.3	68.4	68.3	69.3	69.1	69.1	68.1	67.9	67.4	64.0	60.6	40.3	39.6	40.1	39.5	39.5	39.5	39.3	39.4	46.9	51.1	52.8	52.3	50.2	61.2	60.8	60.6
23	82.4	60.6	60.9	62.8	68.4	68.3	68.3	68.3	68.4	68.2	68.3	68.1	68.0	68.2	68.2	68.2	69.2	69.0	69.1	68.0	67.9	67.4	63.9	60.6	42.0	41.3	41.7	41.2	41.1	41.1	40.8	40.9	47.2	51.2	52.8	52.3	50.3	61.0	60.7	60.4
24	85.3	60.4	60.8	62.6	68.3	68.3	68.2	68.2	68.3	68.1	68.2	68.0	67.9	68.1	68.2	68.1	69.1	68.9	69.0	68.0	67.8	67.3	63.9	60.5	43.9	43.2	43.5	43.0	42.9	42.9	42.6	42.6	47.6	51.3	52.8	52.4	50.4	60.9	60.5	60.3
25	88.3	60.3	60.6	62.5	68.2	68.2	68.1	68.2	68.2	68.0	68.1	67.9	67.8	68.0	68.1	68.0	69.1	68.9	68.9	68.0	67.8	67.3	63.9	60.6	46.1	45.4	45.6	45.1	44.9	44.8	44.5	44.5	48.2	51.5	52.9	52.5	50.5	60.7	60.4	60.1
26	91.3	60.1	60.5	62.3	68.2	68.0	68.0	68.1	68.1	67.9	68.0	67.8	67.7	67.9	68.0	67.9	69.1	68.8	68.9	68.0	67.8	67.3	64.0		48.7	48.0	48.0	47.5	47.2	47.1	46.7	46.7	49.1	51.9	53.1	52.7	50.8	60.6	60.2	60.0
27	94.3	60.0	60.3	62.2	68.1	68.0	68.0	68.0	68.0	67.9	68.0	67.8	67.7	67.8	67.9	67.8	69.1	68.9	69.0	68.1	67.9	67.4	64.2	61.2	52.3	51.5	51.3	50.6	50.3	50.1	49.5	49.5	50.7	52.7	53.6	53.1	51.3	60.5	60.1	59.8
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Floor	Assessment	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234
1	17.8	60.5	60.6	60.2	59.9	61.2	62.0	64.4	65.4	66.4	69.0	67.2	67.0	67.2	68.8	69.0	68.8	68.2	68.0	67.9	67.7	67.6	67.6	67.4	67.2	67.2	67.0	67.3	63.9	64.6	65.1	66.4	59.4	59.6	60.1
2	20.8	60.5	60.6	60.1	59.8	61.1	61.9	64.2	65.2	66.2	68.8	67.1	66.8	67.0	68.6	68.9	68.7	68.2	68.0	67.9	67.7	67.6	67.6	67.5	67.4	67.3	67.2	67.6	64.6	65.2	65.6	66.8	59.4	59.6	60.1
3	23.8	60.4	60.5	60.0	59.7	61.0	61.8	64.1	65.1	66.0	68.6	67.0	66.7	66.9	68.4	68.9	68.6	68.2	68.0	67.9	67.7	67.6	67.7	67.5	67.4	67.4	67.3	67.9	65.1	65.6	65.9	67.2	59.3	59.5	60.0
4	26.7	60.3	60.4	59.9	59.6	60.8	61.6	63.9	64.9	65.8	68.4	66.8	66.5	66.7	68.3	68.7	68.5	68.1	67.9	67.9	67.7	67.7	67.7	67.6	67.5	67.4	67.3	68.1	65.5	65.9	66.3	67.4	59.2	59.4	59.9
5	29.7	60.2	60.3	59.8	59.5	60.7	61.5	63.7	64.7	65.6	68.1	66.7	70.4	66.5	68.1	68.6	68.5	68.0	67.9	67.9	67.7	67.6	67.7	67.5	67.5	67.5	67.3	68.2	65.7	66.2	66.5	67.6	59.2	59.4	59.8
6	32.7	60.1	60.1	59.6	59.4	60.5	61.3	63.5	64.5	65.3	67.9	66.5	70.3	70.4	67.9	68.5	68.3	68.0	67.8	67.8	67.6	67.6	67.6	67.5	67.5	67.4	67.3	68.2	65.8	66.3	66.6	67.7	59.1	59.3	59.7
7	35.7	59.9	60.0	59.5	59.2	60.4	61.2	63.3	64.2	65.1	67.8	70.4	70.1	70.2	67.7	68.4	68.3	67.9	67.8	67.8	67.6	67.5	67.6	67.5	67.4	67.4	67.3	68.2	65.9	66.3	66.6	67.7	59.0	59.2	59.6
8	38.6	59.8	59.9	59.4	59.1	60.2	61.0	63.1	64.0	64.9	67.6	70.3	70.0	70.0	67.6	68.3	68.2	67.8	67.7	67.7	67.6	67.5	67.5	67.5	67.4	67.4	67.3	68.2	65.8	66.4	66.7	67.8	58.9	59.2	59.5
9	41.6	59.7	59.8	59.2	58.9	60.1	60.8	63.0	63.8	64.6	67.4	70.2	69.9	69.9	67.5	68.2	68.1	67.7	67.6	67.6	67.5	67.5	67.5	67.4	67.4	67.4	67.3	68.2	65.8	66.4	66.7	67.7	58.8	59.1	59.4
10	44.6	59.6	59.6	59.1	58.8	59.9	60.6	62.8	63.6	64.4	67.3	70.1	69.8	69.8	67.3	68.1	68.0	67.7	67.6	67.6	67.4	67.4	67.5	67.4	67.3	67.3	67.2	68.2	65.8	66.3	66.6	67.7	58.7	59.0	59.3
11	47.6	59.4	59.5	58.9	58.6	59.7	60.5	62.6	63.4	64.2	67.2	70.0	69.7	69.7	67.2	68.0	67.9	67.6	67.5	67.5	67.4	67.4	67.4	67.3	67.3	67.3	67.2	68.1	65.8	66.3	66.6	67.7	58.6	58.8	59.2
12	50.5	59.4	59.3	58.8	58.5	59.6	60.3	62.4	63.2	64.0	67.0	69.9	69.6	69.6	67.1	67.9	67.8	67.6	67.5	67.5	67.3	67.3	67.3	67.3	67.2	67.2	67.1	68.1	65.7	66.3	66.6	67.7	58.5	58.7	59.1
13	53.5	59.2	59.2	58.6	58.3	59.4	60.1	62.2	63.0	63.7	66.9	69.8	69.5	69.4	67.0	67.8	67.7	67.5	67.4	67.4	67.3	67.3	67.3	67.2	67.2	67.2	67.1	68.1	65.7	66.2	66.6	67.6	58.4	58.6	58.9
14	56.5	59.1	59.1	58.5	58.1	59.3	59.9	62.0	62.8	63.5	66.8	69.7	69.4	69.3	66.9	67.8	67.7	67.4	67.3	67.3	67.2	67.2	67.3	67.2	67.2	67.2	67.1	68.0	65.6	66.2	66.5	67.6	58.3	58.5	58.8
15	59.5	59.0	58.9	58.3	58.0	59.1	59.8	61.8	62.6	63.3	66.7	69.6	69.3	69.2	66.8	67.7	67.6	67.3	67.3	67.3	67.2	67.1	67.2	67.1	67.1	67.1	67.0	68.0	65.6	66.2	66.5	67.6	58.2	58.4	58.7
16	62.4	58.8	58.8	58.2	57.8	58.9	59.6	61.7	62.4	63.2	66.6	69.5	69.2	69.1	66.7	67.6	67.5	67.3	67.2	67.2	67.1	67.1	67.1	67.1	67.1	67.1	67.0	67.9	65.6	66.1	66.4	67.5	58.1	58.3	58.6
17	65.4	58.7	58.6	58.0	57.7	58.8	59.5	61.5	62.2	63.0	66.5	69.5	69.1	69.0	66.6	67.5	67.5	67.2	67.2	67.2	67.1	67.0	67.1	67.0	67.0	67.0	66.9	67.9	65.5	66.1	66.4	67.5	58.0	58.1	58.4
18	68.4	58.6	58.6	57.9	57.6	58.6	59.3	61.3	62.0	62.8	70.4	69.4	69.0	69.0	66.5	67.5	67.4	67.2	67.1	67.1	67.0	67.0	67.0	67.0	67.0	67.0	66.9	67.8	65.5	66.0	66.4	67.4	57.9	58.0	58.3
19	71.4	58.4	58.4	57.8	57.4	58.5	59.2	61.2	61.9	62.6	70.3	69.3	69.0	68.9	70.4	67.4	67.3	67.1	67.0	67.1	67.0	66.9	67.0	66.9	66.9	66.9	66.8	67.8	65.4	66.0	66.3	67.4	57.8	57.9	58.2
20	74.3	58.3	58.3	57.6	57.3	58.3	59.0	61.0	61.7	62.5	70.2	69.2	68.9	68.8	70.3	67.3	67.3	67.0	67.0	67.0	66.9	66.9	66.9	66.9	66.9	66.8	66.8	67.7	65.4	65.9	66.3	67.3	57.7	57.8	58.1
21	77.3	58.2	58.2	57.5	57.1	58.2	58.9	60.9	61.5	62.3	70.1	69.2	68.8	68.7	70.3	67.3	67.2	67.0	66.9	66.9	66.8	66.8	66.9	66.8	66.8	66.8	66.7	67.7	65.3	65.9	66.2	67.3	57.5	57.7	58.0
22	80.3	58.1	58.0	57.4	57.0	58.1	58.7	60.7	61.4	62.1	70.1	69.1	68.7	68.6	70.2	67.2	67.1	66.9	66.9	66.9	66.8	66.8	66.8	66.8	66.7	66.7	66.7	67.6	65.3	65.9	66.2	67.3	57.4	57.6	57.9
23	83.3	57.9	57.9	57.2	56.9	57.9	58.6	60.6	61.2	62.0	70.0	69.0	68.7	68.5	70.1	67.1	67.1	66.9	66.8	66.8	66.7	66.7	66.8	66.7	66.7	66.7	66.6	67.6	65.2	65.8	66.2	67.2	57.3	57.4	57.8
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Floor	Assessment	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339
1	16.9	51.4	51.1	51.4	59.7	59.1	58.9	58.9	59.1	59.0	59.1	58.9	59.0	59.2	59.3	59.5	62.4	66.2	66.9	67.3	67.8	68.0	68.1	66.4	64.3	64.1	64.0	63.7	63.6	63.5	63.4	63.3	63.1	63.0	62.8	62.6	62.4	52.6	52.5	51.9
2	19.9	51.4	51.1	51.4	59.7	59.1	58.8	58.9	59.0	58.9	59.0	58.9	59.0	59.2	59.3	59.4	63.2	66.7	67.3	67.6	68.1	68.2	68.3	66.8	64.9	64.7	64.6	64.3	64.2	64.2	64.0	63.9	63.7	63.6	63.4	63.2	63.1	52.6	52.5	51.9
3	22.9	51.4	51.0	51.4	59.7	59.1	58.8	58.8	59.0	58.9	59.0	58.9	58.9	59.1		59.4	63.7	67.0	67.5	67.9	68.3	68.4	68.5	67.1	65.3	65.1	65.0	64.7	64.6	64.6	64.5	64.3	64.2	64.1	63.9	63.7	63.5	52.6	52.5	51.9
4	25.8	51.4	51.0	51.3	59.7	59.1	58.9	58.9	59.0	58.9	58.9	58.8	58.9	59.1		59.3	64.1	67.2	67.7	68.1	68.5	68.6	68.7	67.3	65.6	65.4	65.3	65.1	65.0	64.9	64.8	64.7	64.5	64.4	64.2	64.1	63.9	52.5	52.5	51.8
5	28.8	51.3	51.0	51.3	59.7	59.1	58.8	58.9	59.0	58.8	58.9	58.8	58.8	59.0	59.1	59.3	64.4	67.4	67.9	68.2	68.6	68.8	68.8	67.5	65.9	65.7	65.6	65.3	65.2	65.2	65.1	65.0	64.8	64.7	64.5	64.4	64.2	52.5	52.4	51.8
6	31.8	51.3	50.9	51.2	59.7	59.1	58.9	58.9	58.9	58.8	58.8	58.7	58.8	59.0	59.0	59.2	64.6	67.5	68.0	68.4	68.8	68.9	68.9	67.6	66.1	65.9	65.8	65.6	65.5	65.4	65.3	65.2	65.1	64.9	64.7	64.6	64.4	52.5	52.4	51.7
7	34.8	51.2	50.8	51.2	59.7	59.2	58.9	58.9	59.0	58.8	58.8	58.7	58.7	58.9	59.0	59.1	64.7	67.6	68.1	68.4	68.8	69.0	69.0	67.7	66.3	66.1	66.0	65.8	65.7	65.7	65.5	65.4	65.3	65.2	64.9	64.8	64.7	52.4	52.4	51.7
8	37.7	51.2	50.8	51.2	59.7	59.2	58.9	58.9	58.9	58.7	58.7	58.6	58.7	58.8	58.9	59.0	64.8	67.6	68.1	68.5	68.9	69.0	69.1	67.8	66.4	66.3	66.2	65.9	65.8	65.8	65.7	65.6	65.5	65.4	65.1	65.0	64.9	52.4	52.3	51.7
9	40.7	51.1	50.7	51.1	59.8	59.2	59.0	58.9	58.9	58.6	58.6	58.5	58.6	58.7		58.9	64.8	67.6	68.1	68.5	68.9	69.0	69.1	67.9	66.5	66.4	66.2	66.0	65.9	65.9	65.8	65.7	65.6	65.5	65.3	65.2	65.1	52.4	52.2	51.6
10	43.7	51.0	50.6	51.0	59.8	59.3	59.0	59.0	59.0	58.7	58.6	58.4	58.5	58.7		58.9	64.8	67.6	68.1	68.4	68.8	69.0	69.1	67.9	66.5	66.4	66.3	66.1	66.0	66.0	65.9	65.8	65.7	65.6	65.4	65.3	65.2	52.3	52.2	51.6
11	46.7	51.0	50.6	51.0	59.9	59.4	59.1	59.0	59.0	58.6	58.5	58.3	58.4	58.6	58.6	58.8	64.7	67.6	68.1	68.4	68.8	69.0	69.1	67.9	66.5	66.4	66.3	66.1	66.0	66.0	65.9	65.8	65.7	65.6	65.5	65.3	65.3	52.2	52.1	51.5
12	49.6	51.0	50.5	50.9	59.9	59.4	59.1	59.1	59.0	58.6	58.5	58.3	58.4	58.5	58.5	58.7	64.7	67.5	68.0	68.4	68.8	68.9	69.0	67.8	66.5	66.4	66.3	66.1	66.0	66.0	65.9	65.8	65.7	65.7	65.5	65.4	65.3	52.2	52.1	51.5
13	52.6	50.9	50.5	50.9	60.0	59.5	59.2	59.1	58.9	58.5	58.4	58.2	58.3	58.4	58.4	58.6	64.6	67.5	68.0	68.4	68.8	68.9	69.0	67.8	66.5	66.3	66.3	66.1	66.0	66.0	65.9	65.8	65.7	65.7	65.5	65.4	65.3	52.2	52.0	51.4
14	55.6	50.8	50.4	50.8	60.1	59.6	59.3	59.1	58.9	58.4	58.3	58.1	58.2	58.3	58.3	58.5	64.6	67.5	68.0	68.3	68.7	68.9	69.0	67.8	66.4	66.3	66.2	66.1	66.0	66.0	65.9	65.8	65.7	65.7	65.5	65.4	65.3	52.1	52.0	51.3
15	58.6	50.8	50.3	50.7	60.1	59.7	59.3	59.1	58.9	58.4	58.2	58.0	58.1	58.2		58.3	64.5	67.4	67.9	68.3	68.7	68.8	69.0	67.8	66.4	66.3	66.2	66.0	66.0	66.0	65.9	65.8	65.7	65.6	65.5	65.4	65.3	52.0	51.9	51.2
16	61.5	50.7	50.3	50.6	60.2	59.7	59.3	59.2	58.9	58.4	58.2	57.9	58.0	58.1	58.1	58.2	64.4	67.4	67.9	68.3	68.7	68.8	68.9	67.7	66.4	66.3	66.2	66.0	65.9	65.9	65.9	65.8	65.7	65.6	65.5	65.4	65.3	52.0	51.9	51.2
17	64.5	50.6	50.2	50.6	60.2	59.7	59.4	59.2	59.0	58.4	58.1	57.8	57.9	58.0	58.0	58.1	64.4	67.3	67.9	68.2	68.6	68.8	68.9	67.7	66.3	66.2	66.1	66.0	65.9	65.9	65.8	65.8	65.6	65.6	65.5	65.4	65.3	51.9	51.8	51.1
18	67.5	50.5	50.1	50.5	60.3	59.8	59.4	59.1	59.0	58.3	58.0	57.7	57.8	57.9	57.9	58.0	64.3	67.3	67.8	68.2	68.6	68.7	68.8	67.6	66.3	66.2	66.1	65.9	65.8	65.9	65.8	65.7	65.6	65.5	65.4	65.3	65.3	51.8	51.7	51.1
19	70.5	50.4	50.0	50.4	60.2	59.8	59.4	59.1	58.9	58.3	57.9	57.7	57.7	57.8	57.8	57.9	64.2	67.2	67.8	68.1	68.5	68.7	68.8	67.6	66.2	66.1	66.1	65.9	65.8	65.8	65.7	65.6	65.6	65.5	65.4	65.3	65.2	51.7	51.7	51.0
20	73.4	50.4	50.0	50.4	60.3	59.8	59.4	59.1	58.9	58.3	57.9	57.6	57.6	57.8		57.9	64.2	67.2	67.8	68.1	68.5	68.6	68.8	67.6	66.2	66.1	66.0	65.8	65.8	65.8	65.7	65.6	65.5	65.5	65.3	65.3	65.2	51.7	51.6	50.9
21	76.4	50.3	49.9	50.3	60.2	59.8	59.4	59.2	58.9	58.2	57.8	57.5	57.5	57.7		57.8	64.1		67.7	68.1	68.5	68.6	68.7	67.5	66.2	66.0	66.0	65.8	65.7	65.7	65.6	65.6	65.5	65.5	65.3	65.2	65.2	51.6	51.6	50.9
22	79.4	50.3	49.8	50.2	60.3	59.8	59.4	59.2	58.8	58.2	57.8	57.4	57.5	57.6	57.6	57.7	64.1	67.1	67.7	68.0	68.4	68.6	68.7	67.5	66.1	66.0	65.9	65.8	65.7	65.7	65.6	65.6	65.5	65.4	65.3	65.2	65.1	51.6	51.5	50.8
23	82.4	50.2	49.7	50.1	60.3	59.8	59.4	59.2	58.8	58.2	57.8	57.4	57.4	57.6	57.6	57.7	64.1	67.1	67.6	68.0	68.4	68.5	68.6	67.4	66.1	65.9	65.9	65.7	65.7	65.7	65.6	65.5	65.4	65.4	65.2	65.2	65.1	51.5	51.4	50.7
24	85.3	50.1	49.7	50.1	60.3	59.8	59.4	59.2	58.8	58.2	57.8	57.4	57.4	57.6	57.6	57.7	64.2	67.1	67.6	68.0	68.3	68.5	68.6	67.4	66.0	65.9	65.9	65.7	65.6	65.6	65.5	65.5	65.4	65.3	65.2	65.1	65.1	51.4	51.3	50.6
25	88.3	50.0	49.6	50.0	60.3	59.9	59.5	59.2	58.9	58.2	57.8	57.5	57.6	57.7	57.7	57.9	64.8	67.1	67.6	68.0	68.3	68.5	68.6	67.4	66.0	65.9	65.8	65.6	65.5	65.6	65.5	65.4	65.3	65.3	65.2	65.1	65.0	51.4	51.3	50.5
26	91.3	49.9	49.5	49.9	60.3	59.9	59.5	59.2	58.9	58.3	58.0	57.7	57.8	58.0	58.1	58.4	66.1	67.3	67.8	68.0	68.4	68.5	68.5	67.3	65.9	65.8	65.8	65.6	65.5	65.5	65.5	65.4	65.3	65.2	65.1	65.0	65.0	51.3	51.2	50.5
27	94.3	49.8	49.4	49.8	60.4	60.0	59.6	59.4	59.1	58.7	58.5	58.2	58.4	58.8	59.2	59.7	66.8	67.7	68.2	68.3	68.6	68.6	68.5	67.3	65.9	65.8	65.7	65.5	65.5	65.5	65.4	65.3	65.3	65.2	65.1	65.0	64.9	51.2	51.1	50.5
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Floor	Assessment	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434
1	16.9	59.4	60.5	60.5	61.2	61.1	61.1	61.0	60.9	60.9	60.6	60.4	60.3	60.0	59.8	59.5	59.2	58.4	58.0	57.7	24.9	20.6	17.3	56.0	56.2	56.0	51.4	49.0	55.6	51.6	28.2	57.0	57.1	53.5	59.8
2	19.9	59.4	60.5	60.5	61.2	61.1	61.1	61.0	60.9	60.8	60.6	60.4	60.2	60.0	59.8	59.5	59.2	58.3	58.0	57.7	24.8	20.6	17.3	56.9	57.0	56.9	53.0	51.0	56.6	53.2	29.0	57.9	58.0	55.0	59.8
3	22.9	59.3	60.5	60.5	61.2	61.1	61.1	60.9	60.8	60.8	60.6	60.3	60.2	60.0	59.8	59.4	59.2	58.3	58.0	57.7	24.8	20.6	17.3	57.5	57.7	57.6	54.1	52.2	57.3	54.3	29.9	58.6	58.7	55.9	59.8
4	25.8	59.3	60.5	60.4	61.1	61.1	61.0	60.9	60.8	60.8	60.6	60.3	60.2	60.0	59.7	59.4	59.2	58.3	58.0	57.6	24.8	20.6	17.3	57.9	58.1	58.0	54.8	53.0	57.8	55.0	30.9	59.0	59.1	56.6	59.8
5	28.8	59.3	60.5	60.4	61.1	61.0	61.0	60.9	60.8	60.7	60.5	60.3	60.1	59.9	59.7	59.4	59.1	58.2	57.9	57.6	24.8	20.6	17.3	58.2	58.4	58.3	55.2	53.5	58.1	55.4	31.9	59.4	59.5	56.9	59.8
6	31.8	59.2	60.4	60.3	61.0	61.0	60.9	60.9	60.7	60.7	60.5	60.2	60.1	59.9	59.6	59.3	59.1	58.2	57.9	57.6	24.8	20.6	17.3	58.6	58.8	58.6	55.5	53.9	58.4	55.7	33.1	59.6	59.7	57.1	59.8
7	34.8	59.2	60.4	60.3	61.0	60.9	60.9	60.8	60.7	60.6	60.5	60.2	60.0	59.8	59.6	59.3	59.1	58.2	57.9	57.5	24.8	20.6	17.3	58.9	59.1	58.9	55.9	54.3	58.6	56.0	34.1	59.9	60.0	57.5	59.7
8	37.7	59.2	60.4	60.3	60.9	60.9	60.9	60.8	60.6	60.6	60.4	60.1	60.0	59.8	59.5	59.3	59.0	58.1	57.8	57.5	24.7	20.5	17.3	59.3	59.4	59.2	56.2	54.6	58.9	56.4	35.6	60.1	60.3	57.8	59.7
9	40.7	59.2	60.4	60.3	60.9	60.9	60.8	60.7	60.6	60.5	60.3	60.1	60.0	59.7	59.5	59.2	59.0	58.1	57.8	57.5	24.7	20.5	17.3	59.5	59.6	59.4	56.5	55.0	59.1	56.6	37.1	60.3	60.5	58.0	59.7
10	43.7	59.1	60.3	60.2	60.9	60.8	60.8	60.7	60.5	60.5	60.3	60.0	59.9	59.6	59.4	59.2	58.9	58.0	57.7	57.4	24.7	20.5	17.3	59.8	59.8	59.6	56.7	55.1	59.2	56.8	39.3	60.4	60.6	58.2	59.7
11	46.7	59.1	60.3	60.2	60.8	60.7	60.7	60.6	60.5	60.4	60.2	60.0	59.8	59.6	59.4	59.1	58.9	58.0	57.7	57.4	24.6	20.5	17.3	59.9	59.9	59.6	56.8	55.3	59.3	56.9	40.9	60.5	60.8	58.4	59.6
12	49.6	59.1	60.2	60.1	60.8	60.7	60.6	60.6	60.4	60.3	60.2	59.9	59.8	59.5	59.3	59.0	58.8	57.9	57.6	57.3	24.6	20.5	17.3	60.0	60.0	59.7	57.0	55.5	59.4	57.1	42.6	60.6	60.9	58.6	59.6
13	52.6	59.1	60.2	60.1	60.7	60.6	60.6	60.5	60.4	60.3	60.1	59.8	59.7	59.5	59.2	59.0	58.7	57.9	57.6		24.6	20.5	17.3	60.1	60.2	59.8	57.1	55.6	59.5	57.2	43.8	60.7	61.0	58.7	59.6
14	55.6	59.0	60.1	60.0	60.6	60.6	60.5	60.4	60.3	60.2	60.0	59.7	59.6	59.4	59.2	58.9	58.7	57.8	57.5	57.2	24.5	20.5	17.3	60.2	60.2	59.9	57.2	55.7	59.6	57.3	44.6	60.8	61.1	58.7	59.5
15	58.6	59.0	60.1	60.0	60.6	60.5	60.4	60.4	60.2	60.2	60.0	59.7	59.5	59.3	59.1	58.8	58.6	57.7	57.4		24.5	20.5	17.3	60.3	60.3	59.9	57.3	55.8	59.6	57.4	45.2	60.8	61.1	58.7	59.5
16	61.5	59.0	60.1	60.0	60.5	60.4	60.4	60.3	60.1	60.1	59.9	59.6	59.4	59.2	59.0	58.7	58.6	57.6	57.3	57.1	24.5	20.4	17.2	60.3	60.3	60.0	57.4	55.9	59.6	57.4	45.6	60.8	61.1	58.7	59.5
17	64.5	58.9	60.0	59.9	60.5	60.4	60.3	60.2	60.1	60.0	59.8	59.6	59.4	59.2	58.9	58.7	58.6	57.6			24.4	20.4	17.2	60.4	60.3	60.0	57.4	55.9	59.6	57.5	45.9	60.8	61.1	58.7	59.4
18	67.5	58.9	59.9	59.8	60.4	60.3	60.3	60.1	60.0	59.9	59.8	59.5	59.3	59.1	58.9	58.6	58.5	57.5	57.2	57.0	24.4	20.4	17.2	60.4	60.3	60.0	57.4	55.9	59.6	57.4	46.2	60.8	61.1	58.6	59.3
19	70.5	58.9	59.9	59.8	60.3	60.2	60.2	60.1	60.0	59.9	59.7	59.4	59.3	59.0	58.8	58.5	58.4	57.4	57.1	56.9	24.3	20.3	17.2	60.4	60.3	60.0	57.4	55.9	59.6	57.4	46.3	60.8	61.1	58.6	59.3
20	73.4	58.8	59.9	59.7	60.3	60.2	60.1	60.0	59.9	59.8	59.6	59.3	59.2	58.9	58.7	58.5	58.3	57.3	57.0	56.8	24.3	20.3	17.2	60.4	60.3	60.0	57.4	55.9	59.6	57.4	46.4	60.8	61.1	58.5	59.3
21	76.4	58.8	59.8	59.7	60.2	60.1	60.1	60.0	59.8	59.7	59.5	59.2	59.1	58.9	58.6	58.4	58.3	57.3	57.0	56.7	24.1	20.3	17.2	60.4	60.3	60.0	57.4	55.8	59.5	57.4	46.4	60.8	61.1	58.5	59.2
22	79.4	58.7	59.8	59.6	60.1	60.0	60.0	59.9	59.7	59.7	59.5	59.2	59.0	58.8	58.6	58.3	58.2	57.2	56.9	56.7	24.3	20.6	17.9	60.4	60.3	59.9	57.3	55.8	59.5	57.3	46.4	60.7	61.1	58.4	59.2
23	82.4	58.7	59.7	59.6	60.1	60.0	59.9	59.8	59.7	59.6	59.4	59.1	58.9	58.7	58.5	58.2	58.2	57.2	56.8	56.6	24.5	21.1	18.6	60.3	60.3	59.9	57.3	55.7	59.5	57.3	46.4	60.7	61.0	58.4	59.2
24	85.3	58.7	59.7	59.6	60.0	59.9	59.9	59.8	59.6	59.6	59.4	59.1	58.9	58.6	58.4	58.2	58.1	57.1	56.7	56.5	24.8	21.8	19.4	60.3	60.2	59.9	57.3	55.7	59.4	57.3	46.3	60.7	61.0	58.3	59.1
25	88.3	58.7	59.6	59.5	60.0	59.8	59.8	59.7	59.5	59.5	59.3	59.0	58.8	58.6	58.4	58.1	58.1	57.0	56.6	56.4	25.1	22.6	20.4	60.3	60.2	59.8	57.2	55.7	59.4	57.2	46.2	60.6	61.0	58.3	59.1
26	91.3	58.7	59.6	59.5	59.9	59.8	59.8	59.7	59.5	59.4	59.2	58.9	58.8	58.5	58.3	58.0	58.0	56.9	56.6	56.4	25.6	23.4	21.4	60.2	60.2	59.8	57.2	55.6	59.4	57.2	46.2	60.6	60.9	58.2	59.1
27	94.3	58.7	59.6	59.5	59.9	59.8	59.7	59.6	59.4	59.4	59.2	58.9	58.7	58.4	58.2	58.0	58.0	56.9	56.5	56.3	26.3	24.5	22.5	60.2	60.1	59.7	57.1	55.6	59.3	57.1	46.1	60.6	60.9	58.2	59.1
28	97.2	58.7	59.6	59.5	59.9	59.8	59.7	59.5	59.4	59.3	59.1	58.8	58.6	58.4	58.2	57.9	57.9	56.8	56.4	56.2	27.2	25.6	23.7	60.2	60.1	59.7	57.1	55.6	59.3	57.1	46.1	60.5	60.8	58.2	59.2
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Floor	Assessmen	t 501	502	2 503	504	4 50	05	506	507	508	509	51	0 51	1	512	513	514	515	516	517	518	519	52	0 5	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543
1	19.9	60.8	61.3	3 62.8	62.9	9 62	2.1	61.1	61.5	61.6	61.5	61.	.3 61	.1 (61.0	60.9	60.8	60.6	57.7	51.7	49.5	54.4	57.	7 5	8.7	54.6	54.6	23.1	0.0	52.7	54.2	52.9	52.9	52.6	49.8	48.0	53.0	52.9	46.2	0.0	25.0	56.0	55.9	55.8	53.8	56.1	56.1
2	22.9	60.8	61.2	2 62.8	62.8	B 62	2.1	61.1	61.5	61.5	61.5	61.	.2 61	.1 (60.9	60.9	60.7	60.6	57.7	51.7	49.5	54.6	57.	7 5	8.9	55.2	55.1	23.1	0.0	53.3	54.7	52.9	52.9	52.6	49.8	48.0	53.0	52.9	46.2	0.0	25.0	56.0	55.9	55.8	53.8	56.1	56.1
3	25.9	60.8	61.2	2 62.8	62.8	8 62	2.0	61.0	61.5	61.5	61.5	61.	.2 61	.1 (60.9	60.9	60.7	60.6	57.7	51.6	49.5	54.9	57.	8 5	9.0	55.6	55.5	23.1	0.0	53.7	55.1	52.9	52.9	52.6	49.8	48.0	53.0	52.9	46.2	0.0	25.0	56.0	55.9	55.8	53.8	56.0	56.1
4	28.8	60.7	61.2	2 62.7	62.7	7 62	2.0	61.0	61.4	61.5	61.4	61.	.2 61	.0	60.9	60.8	60.7	60.5	57.6	51.€	49.6	55.0	57.	8 5	9.0	55.9	55.8	23.1	0.0	54.1	55.4	52.9	52.9	52.6	49.8	47.9	53.0	52.9	46.2	0.0	24.9	56.0	55.8	55.8	53.8	56.0	56.1
5	31.8	60.7	61.1	1 62.7	62.7	7 61	1.9	61.0	61.4	61.4	61.4	61.	.1 61	.0	8.06	60.8	60.6	60.5	57.6	51.6	49.5	55.1	57.	8 5	9.1	56.2	56.1	23.1	0.0	54.4	55.7	52.9	52.9	52.6	49.8	47.9	53.0	52.9	46.1	0.0	24.9	55.9	55.8	55.7	53.8	56.0	56.0
6	34.8	60.7	61.1	1 62.6	62.6	6 61	1.8	60.9	61.3	61.4	61.3	61.	.1 60	.9	8.06	60.7	60.6	60.5	57.5	51.5	49.5	55.2	57.	9 5	9.2	56.5	56.4	23.1	0.0	54.7	56.1	52.8	52.8	52.6	49.8	47.9	53.0	52.9	46.1	0.0	24.9	55.9	55.8	55.7	53.7	56.0	56.0
7	37.8	60.6	61.0	0 62.5	62.5	5 61	1.8	60.8	61.3	61.3	61.3	61.	.0 60	.9	60.7	60.7	60.5	60.4	57.5	51.5	49.5	55.4	57.	9 5	9.3	56.9	56.8	23.0	0.0	55.1	56.5	52.8	52.8	52.6	49.8	47.9	53.0	52.8	46.1	0.0	24.9	55.9	55.7	55.7	53.7	55.9	56.0
8	40.7	60.5	60.9	9 62.4	62.5	5 61	1.7	60.8	61.2	61.2	61.2	60.	.9 60	.8 (60.7	60.6	60.5	60.3	57.4	51.4	49.7	55.6	58.	0 5	9.4	57.2	57.1	23.0	0.0	55.3	56.8	52.8	52.8	52.6	49.8	47.9	53.0	52.8	46.1	0.0	24.8	55.8	55.7	55.6	53.7	55.9	56.0
9	43.7	60.4	60.8	8 62.4	62.4	4 61	1.6	60.7	61.1	61.2	61.1	60.	.9 60	.7	60.6	60.5	60.4	60.3	57.4	51.4	49.8	55.8	58.	1 5	9.5	57.5	57.4	23.0	0.0	55.5	57.0	52.8	52.8	52.6	49.7	47.9	52.9	52.8	46.1	0.0	24.8	55.8	55.7	55.6	53.7	55.8	55.9
10	46.7	60.4	60.8	8 62.3	62.3	3 61	1.5	60.6	61.0	61.1	61.0	60.	.8 60	.7	60.5	60.5	60.3	60.2	57.3	51.3	50.0	56.0	58.	1 5	9.7	57.8	57.8	23.0	0.0	55.7	57.3	52.7	52.8	52.5	49.7	47.9	52.9	52.7	46.1	0.0	24.8	55.8	55.6	55.6	53.6	55.8	55.9
11	49.7	60.3	60.7	7 62.2	62.2	2 61	1.4	60.5	60.9	61.0	61.0	60.	.7 60	.6	60.5	60.4	60.2	60.1	57.2	51.2	50.0	56.1	58.	1 5	9.7	58.1	58.0	22.9	0.0	55.8	57.5	52.7	52.8	52.5	49.7	47.9	52.9	52.7	46.1	0.0	24.8	55.7	55.6	55.5	53.6	55.7	55.8
12	52.6	60.2	60.7	7 62.1	62.	1 61	1.3	60.4	60.9	60.9	60.9	60.	.6 60	.5	60.4	60.3	60.2	60.1	57.2	51.2	50.1	56.1	58.	1 5	9.7	58.3	58.2	22.9	0.0	56.0	57.7	52.7	52.7	52.5	49.7	47.8	52.9	52.7	46.0	0.0	24.7	55.7	55.5	55.5	53.5	55.7	55.8
13	55.6	60.1	60.6	6 62.0	62.0	0 61	1.3	60.3	60.8	60.8	60.8	60.	.6 60	.4	60.3	60.2	60.1	60.0	57.1	51.1	50.1	56.1	58.	1 5	9.7	58.4	58.3	22.9	0.0	56.1	57.8	52.7	52.7	52.5	49.7	47.8	52.8	52.7	46.0	0.0	24.7	55.6	55.5	55.5	53.5	55.7	55.7
14	58.6	60.0	60.5	5 61.9	61.9	9 61	1.2	60.2	60.7	60.8	60.7	60.	.5 60	.3	60.2	60.2	60.0	59.9	57.0	51.0	50.1	56.1	58.	1 5	9.7	58.5	58.4	22.9	0.0	56.2	58.0	52.7	52.6	52.4	49.7	47.8	52.8	52.6	46.0	0.0	24.7	55.6	55.4	55.4	53.5	55.6	55.7
15	61.6	60.0	60.4	4 61.8	61.8	B 61	1.1	60.1	60.6	60.7	60.6	60.	.4 60	.3	60.2	60.1	59.9	59.8	57.0	51.0	50.1	56.2	58.	1 5	9.7	58.6	58.6	22.8	0.0	56.3	58.1	52.6	52.6	52.4	49.6	47.8	52.7	52.6	46.0	0.0	24.6	55.5	55.4	55.3	53.5	55.5	55.6
16	64.5	59.9	60.3	3 61.7	61.7	7 61	1.0	60.0	60.5	60.6	60.5	60.	.3 60	.2	60.1	60.0	59.9	59.8	56.9	50.9	50.1	56.2	58.	0 5	9.8	58.7	58.7	22.8	0.0	56.4	58.2	52.6	52.6	52.4	49.6	47.8	52.7	52.6	46.0	0.0	24.6	55.5	55.4	55.3	53.4	55.5	55.6
17	67.5	59.8	60.2	2 61.6	61.6	6 60	0.9	59.9	60.4	60.5	60.4	60.	.2 60	.1 (0.0	59.9	59.8	59.7	56.8	50.8	50.1	56.2	58.	0 5	9.7	58.8	58.8	22.8	0.0	56.5	58.3	52.6	52.6	52.3	49.6	47.8	52.7	52.6	45.9	0.0	24.5	55.4	55.3	55.2	53.4	55.5	55.5
18	70.5	59.7	60.1	1 61.5	61.5	5 60	0.8	59.8	60.3	60.4	60.3	60.	.1 60	.0	59.9	59.8	59.7	59.6	56.7	50.7	50.2	56.2	58.	0 5	9.7	58.9	58.8	22.8	0.0	56.6	58.4	52.5	52.6	52.3	49.6	47.7	52.7	52.5	45.9	0.0	24.5	55.4	55.2	55.2	53.4	55.4	55.4
19	73.5	59.6	60.0	0 61.4	61.4	4 60).7	59.7	60.2	60.3	60.2	60.	.0 59	.9	59.8	59.7	59.6	59.5	56.6	50.7	50.2	56.2	57.	9 5	9.7	58.9	58.9	22.7	0.0	56.6	58.5	52.5	52.5	52.3	49.6	47.7	52.6	52.5	45.9	0.0	24.5	55.3	55.2	55.1	53.3	55.4	55.4
20	76.4	59.5	59.9	9 61.3	61.3	3 60	0.5	59.6	60.1	60.2	60.1	60.	.0 59	.8	59.7	59.7	59.5	59.4	56.6	50.6	50.3	56.2	57.	9 5	9.7	59.0	58.9	22.7	0.0	56.7	58.5	52.5	52.5	52.2	49.5	47.7	52.6	52.4	45.9	0.0	24.4	55.3	55.2	55.1	53.3	55.3	55.3
21	79.4	59.4	59.8	8 61.2	61.2	2 60).4	59.5	60.0	60.1	60.0	59.	.9 59	.7	59.6	59.6	59.4	59.3	56.5	50.5	50.3	56.2	57.	9 5	9.6	59.0	59.0	22.6	0.0	56.8	58.6	52.4	52.4	52.2	49.5	47.7	52.5	52.4	45.8	0.0	24.4	55.2	55.1	55.0	53.2	55.2	55.3
22	82.4	59.3	59.7	7 61.1	61.1	1 60	0.3	59.5	59.9	60.0	59.9	59.	.8 59	.6	59.5	59.5	59.3	59.3	56.4	50.4	50.3	56.2	57.	8 5	9.6	59.0	59.0	22.6	0.0	56.8	58.7	52.4	52.4	52.1	49.5	47.7	52.5	52.4	45.8	0.0	24.3	55.2	55.0	55.0	53.2	55.2	55.2
23	85.4	59.3	59.6	6 61.0	61.0	0 60	0.2	59.4	59.8	59.9	59.8	59.	.7 59	.5	59.5	59.4	59.2	59.2	56.3	50.3	50.3	56.1	57.	7 5	9.6	59.1	59.0	22.6	0.0	56.8	58.7	52.4	52.4	52.1	49.5	47.6	52.5	52.3	45.8	0.0	24.0	55.1	55.0	54.9	53.1	55.1	55.1
24	88.3	59.2	59.6	6 60.9	60.9	9 60	0.1	59.3	59.7	59.8	59.8	59.	.6 59	.5	59.4	59.3	59.2	59.1	56.2	50.3	50.3	56.1	57.	7 5	9.5	59.1	59.0	23.4	0.0	56.9	58.7	52.4	52.3	52.1	49.4	47.6	52.5	52.3	45.8	0.0	24.5	55.0	54.9	54.9	53.1	55.1	55.1
25	91.3	59.1	59.5	5 60.8	60.8	B 60	0.0	59.2	59.6	59.7	59.7	59.	.5 59	.4	59.3	59.2	59.1	59.0	56.2	50.2	50.4	56.1	57.	6 5	9.5	59.1	59.0	25.7	0.0	56.9	58.8	52.3	52.3	52.0	49.4	47.6	52.4	52.3	45.7	0.0	26.7	55.0	54.8	54.8	53.1	55.0	55.0
26	94.3	59.0	59.4	4 60.7	60.7	7 59	9.9	59.1	59.5	59.6	59.6	59.	.4 59	.3	59.2	59.1	59.0	58.9	56.1	50.2	50.3	56.0	57.	6 5	9.4	59.1	59.0	29.0	0.0	56.9	58.8	52.3	52.3	52.0	49.4	47.6	52.4	52.2	45.7	0.0	30.2	54.9	54.8	54.7	53.0	54.9	54.9
27	97.3	58.9	59.3	3 60.6	60.6	6 59	9.8	59.0	59.4	59.5	59.5	59.	.3 59	2	59.1	59.1	58.9	58.8	56.0	50.2	50.4	56.0	57.	5 5	9.4	59.1	59.0	33.8	0.0	56.9	58.8	52.2	52.2	52.0	49.3	47.5	52.3	52.2	45.8	0.0	36.9	54.9	54.7	54.7	53.0	54.8	54.9
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	mPD Level of	f																																											
	Noise																							Tower	i																				
Floor	Assessment	601	602	603	604	605	606	607	608	609	610	611	61:	2 6	13	614	615	616	617	618	619	620	621	622	62	624	62	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643
1	22.9	60.5	62.7	59.9	58.7	49.1	28.6	28.6	44.9	48.0	45.9	46.2	45.	1 49	.4 4	9.2	49.1	31.1	59.1	31.2	31.7	60.9	62.4	69.5	69.	68.2	67.7	69.0	70.3	69.5	66.6	66.6	66.6	66.5	67.2	67.2	70.0	69.7	69.0	70.0	68.3	67.6	68.0	69.3	69.1
2	25.9	60.4	62.5	59.8	58.7	49.1	28.6	28.5	44.9	48.0	45.9	46.2	45.	1 49	.3 4	9.2	49.0	30.9	58.9	31.2	31.7	60.7	62.3	69.2	69.	2 67.8	67.3	68.6	69.8	69.0	70.0	70.0	70.1	70.0	66.7	66.6	69.5	69.2	68.5	69.5	67.8	67.2	67.6	68.8	68.7
3	28.9	60.2	62.3	59.7	58.6	49.1	28.6	28.5	44.9	48.0	45.9	46.2	45.	1 49	.3 4	9.2	49.0	80.8	58.8	31.1	31.6	60.6	62.1	68.8	68.	67.5	66.8	68.1	69.3	68.4	69.5	69.5	69.6	69.4	70.1	70.1	69.0	68.7	68.0	68.9	67.4	66.8	67.2	68.5	68.4
4	31.8	60.1	62.2	59.6	58.5	49.1	28.6	28.5	44.9	48.0	45.9	46.2	45.	1 49	.3 4	9.2	49.0	30.7	58.7	31.1	31.6	60.5	61.9	68.4	68.	67.1	66.4	67.7	68.8	67.9	68.9	69.0	69.0	68.9	69.6	69.5	68.5	68.2	67.5	68.4	67.0	66.4	66.8	68.0	68.0
5	34.8	60.0	62.0	59.5	58.5	49.1	28.6	28.5	44.9	48.0	45.8	46.2	45.	0 49	.3 4	9.2	49.0	30.5	58.6	31.0	31.5	60.3	61.7	68.0	68.	66.7	66.0	67.3	68.3	67.5	68.5	68.6	68.6	68.5	69.1	69.1	68.0	67.7	67.0	68.0	66.6	66.0	66.4	67.6	67.6
6	37.8	59.8	61.8	59.4	58.4	49.0	28.6	28.5	44.9	48.0	45.8	46.2	45.	0 49	.3 4	9.1	49.0	30.3	58.4	31.0	31.5	60.1	61.5	67.7	67.	66.3	65.6	66.9	67.9	67.0	68.0	68.1	68.2	68.0	68.6	68.7	67.6	67.3	66.6	67.5	66.2	65.7	66.0	67.3	67.3
7	40.8	59.7	61.6	59.3	58.3	49.0	28.5	28.5	44.8	47.9	45.8	46.2	45.	0 49	.2 4	9.1	49.0	30.2	58.3	31.0	31.4	59.9	61.2	67.3	67.2	66.0	65.3	66.5	67.5	66.6	67.6	67.7	67.8	67.6	68.3	68.2	67.2	66.9	66.2	67.1	65.9	65.3	65.7	66.9	67.0
8	43.7	59.5	61.4	59.2	58.2	49.0	28.5	28.5	44.8	47.9	45.8	46.1	45.	0 49	.2 4	9.1	48.9	30.0	58.1	30.9	31.3	59.7	61.0	67.0	67.	65.7	65.0	66.2	67.2	66.3	67.3	67.4	67.4	67.3	67.9	67.9	66.8	66.5	65.8	66.8	65.6	65.0	65.3	66.6	66.6
9	46.7	59.3	61.2	59.1	58.1	48.9	28.5	28.5	44.8	47.9	45.7	46.1	44.	9 49	.2 4	9.1	48.9	59.9	58.0	30.9	31.3	59.5	60.8	66.7	66.	65.4	64.7	65.8	66.8	65.9	66.9	67.0	67.1	66.9	67.5	67.5	66.5	66.2	65.5	66.5	65.2	64.8	65.1	66.3	66.3
10	49.7	59.2	61.1	58.9	58.0	48.9	28.5	28.4	44.7	47.9	45.7	46.1	44.	9 49	.1 4	9.1	48.9	59.6	57.8	30.9	31.2	59.3	60.6	66.4	66.	65.1	64.4	65.6	66.5	65.6	66.6	66.7	66.7	66.6	67.2	67.2	66.1	65.8	65.1	66.2	65.0	64.5	64.8	66.1	66.1
11	52.7	59.0	60.9	58.8	57.8	48.9	28.5	28.4	44.7	47.8	45.7	46.0	44.	9 49	.1 4	9.0	48.9	59.5	57.6	30.8	31.2	59.2	60.4	66.1	66.	1 64.8	64.1	65.3	66.2	65.3	66.3	66.4	66.5	66.3	66.9	66.9	65.8	65.5	64.8	65.9	64.7	64.2	64.5	65.8	65.8
12	55.6	58.9	60.7	58.7	57.8	48.8	28.5	28.4	44.7	47.8	45.7	46.0	44.	9 49	.1 4	9.0	48.8	59.3	57.4	30.7	31.1	59.0	60.2	65.9	65.	64.6	63.8	65.0	65.9	65.0	66.0	66.1	66.2	66.0	66.7	66.6	65.5	65.2	64.5	65.6	64.4	63.9	64.3	65.5	65.5
13	58.6	58.7	60.5	58.6	57.6	48.8	28.5	28.4	44.6	47.8	45.6	46.0	44.	8 49	.0 4	9.0	48.8	59.2	57.3	30.7	31.1	58.9	60.0	65.7	65.	64.3	63.6	64.8	65.6	64.7	65.7	65.8	65.9	65.8	66.4	66.3	65.3	65.0	64.3	65.4	64.1	63.7	64.0	65.3	65.3
14	61.6	58.6	60.4	58.5	57.5	48.7	28.4	28.4	44.6	47.7	45.6	45.9	44.	8 49	.0 4	8.9	48.7	59.0	57.2	30.7	31.0	58.7	59.9	65.5	65.	64.1	63.3	64.5	65.4	64.5	65.5	65.6	65.7	65.5	66.1	66.0	65.0	64.7	64.0	65.1	64.0	63.5	63.7	65.1	65.0
15	64.6	58.4	60.2	58.3	57.4	48.7	28.4	28.4	44.5	47.7	45.5	45.9	44.	7 48	.9 4	8.9	48.7	58.9	57.0	30.6	31.0	58.5	59.7	65.2	65.	1 63.9	63.	64.3	65.2	64.2	65.3	65.3	65.4	65.3	65.9	65.8	64.8	64.5	63.8	64.9	63.8	63.2	63.5	64.8	64.8
16	67.5	58.3	60.0	58.2	57.3	48.7	28.4	28.3	44.5	47.6	45.5	45.8	44.	7 48	.9 4	8.9	48.6	58.7	56.9	30.6	30.9	58.3	59.5	65.0	643	63.6	62.9	64.1	65.0	64.0	65.0	65.1	65.2	65.0	65.7	65.6	64.5	64.2	63.6	64.7	63.5	63.0	63.3	64.6	64.7
17	70.5	58.2	59.9	58.1	57.2	48.6	28.4	28.3	44.5	47.6	45.4	45.8	44.	7 48	.9 4	8.8	48.6	58.5	56.7	30.5	30.8	58.2	59.3	64.8	64.	7 63.4	62.6	63.9	64.8	63.8	64.8	64.9	65.0	64.8	65.4	65.3	64.3	64.0	63.3	64.4	63.3	62.8	63.1	64.4	64.5
18	73.5	58.0	59.7	58.0	57.1	48.6	28.2	28.1	44.4		45.4	45.8	44.	6 48	.8 4	8.8	48.5	58.4	56.6	30.4	30.5	58.0	59.2	64.6	64.	63.2	62.4	63.7	64.6	63.6	64.6	64.7	64.8	64.6	65.2	65.1	64.1	63.8	63.1	64.2	63.1	62.6	62.9	64.2	64.3
19	76.5	57.9	59.6	57.9	57.0	48.5	28.2	28.1	44.4	47.5	45.4		44.	6 48		8.7			56.4	30.2	30.5	57.8	59.0	64.4	64.	63.1	62.2	63.5	64.4	63.4	64.4	64.5	64.6	64.4	65.0	64.9	63.9	63.6	62.9	64.1	62.9	62.5	62.7	64.0	64.1
20	79.4	57.8	59.4	57.7	56.9	48.4	28.2	28.2	44.3	47.4	45.3	45.7	44.	5 48	.7 4	8.7	48.4	58.1	56.3	30.4	30.6	57.7	58.9	64.2	64.	1 62.9	62.	63.3	64.2	63.2	64.2	64.3	64.4	64.2	64.8	64.7	63.7	63.4	62.7	63.9	62.8	62.3	62.5	63.8	63.9
21	82.4	57.7	59.3	57.7	56.8	48.4	28.3	28.3	44.3	47.4	45.3	45.6	44.	5 48	.7 4	8.6	48.4	57.9	56.2	30.4	30.7	57.5	58.7	64.1	64.	62.7	61.9	63.1	64.0	63.0	64.0	64.1	64.2	64.0	64.7	64.6	63.5	63.2	62.6	63.8	62.6	62.1	62.3	63.7	63.7
22	85.4	57.5	59.2	57.5	56.7	48.3	28.5	28.5	44.2	47.3	45.2	45.6	44.	4 48	.6 4	8.6	48.3	57.8	56.0	30.5	30.8	57.4	58.6	63.9	63.	62.6	61.7	62.9	63.8	62.8	63.9	64.0	64.1	63.9	64.5	64.4	63.4	63.1	62.4	63.6	62.5	62.0	62.1	63.6	63.6
23	88.4	57.4	59.1	57.4	56.6	48.3	28.9	28.8	44.2	47.3	45.2	45.5	44.	4 48	.6 4	8.5	48.3	57.7	55.9	30.6	30.8	57.3	58.4	63.7	63.	62.4	61.5	62.8	63.7	62.7	63.7	63.8	63.9	63.7	64.3	64.2	63.2	62.9	62.3	63.4	62.3	61.8	62.0	63.4	63.4
24	91.3	57.3	59.0	57.3	56.5	48.2	29.1	29.1	44.1	47.2	45.1	45.5	44.	4 48	.5 4	8.5	48.3	57.5	55.8	30.7	30.9	57.2	58.3	63.6	63.	62.3	61.4	62.6	63.5	62.5	63.5	63.6	63.7	63.5	64.1	64.1	63.0	62.7	62.1	63.3	62.1	61.6	61.8	63.2	63.3
25	94.3	57.2	58.8	57.2	56.4	48.2	29.7	29.7	44.1	47.2	45.1	45.4	44.	4 48	.5 4	8.4	48.2	57.4	55.6	31.2	31.5	57.1	58.2	63.4	63.2	62.1	61.2	62.4	63.4	62.4	63.4	63.5	63.6	63.4	64.0	63.9	62.9	62.6	62.0	63.1	62.0	61.5	61.7	63.1	63.2
26	97.3	57.1	58.7	57.1	56.3	48.1	30.3	30.4	44.1	47.2	45.1	45.5	44.	3 48	.4 4	8.4	48.2	57.3	55.5	32.0	32.3	56.9	58.1	63.3	63.	62.0	61.1	62.3	63.2	62.2	63.2	63.3	63.4	63.2	63.8	63.7	62.7	62.4	61.8	62.9	61.8	61.3	61.5	62.9	63.0
27	100.3	57.0	58.6	57.0	56.2	48.0	31.1	31.2	44.0	47.2	45.0	45.4	44.	4 48	.4 4	8.4	48.1	57.2	55.4	32.8	33.9	56.8	57.9	63.1	63.	61.8	60.9	62.1	63.1	62.1	63.1	63.2	63.3	63.1	63.7	63.6	62.6	62.3	61.7	62.8	61.7	61.2	61.4	62.8	62.9
28																																								\Box					
29																																													
30																																													

RCT608-3, With NMMs Page 6 of 7

	mPD Level of																																							\neg
	Noise																				Tower 7																			
Floor	Assessment	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739
1	8.7	59.0	59.3	59.5	59.7	60.0	60.0	60.1	60.5	60.5	60.9	61.1	61.0	61.6	57.6	65.9	67.2	69.6	69.8	70.4	66.9	68.7	68.6	67.0	70.4	70.1	69.9	69.4	69.3	68.8	68.4	68.1	67.8	66.8	66.2	57.9	59.2	37.4	37.5	36.7
2	11.7	59.0	59.3	59.5	59.6	60.0	60.0	60.0	60.5	60.4	60.8	61.0	61.0	61.5	57.5	65.8	67.1	69.4	69.6	70.2	66.6	68.3	68.2	66.8	70.2	70.0	69.8	69.3	69.2	68.7	68.3	68.1	67.7	66.7	66.1	57.8	59.2	37.7	37.6	36.7
3	14.7	58.9	59.2	59.5	59.6	59.9	59.9	60.0	60.4	60.4	60.8	61.0	60.9	61.4	57.4	65.6	66.7	69.1	69.3	69.8	70.2	67.9	67.8	66.5	69.9	69.8	69.6	69.2	69.0	68.6	68.2	68.0	67.6	66.6	66.1	57.9	59.1	37.9	37.8	36.9
4	17.6	58.9	59.2	59.4	59.5	59.9	59.9	59.9	60.3	60.3	60.7	60.8	60.8	61.3	57.3	65.4	66.5	68.8	69.0	69.5	69.9	67.4	67.3	70.2	69.7	69.6	69.4	69.0	68.9	68.4	68.1	67.9	67.5	66.5	66.0	57.8	59.1	38.3	38.0	37.0
5	20.6	58.8	59.1	59.3	59.4	59.8	59.8	59.8	60.2	60.2	60.6	60.7	60.6	61.1	57.2	65.2	70.1	68.5	68.7	69.1	69.5	66.9	66.9	69.9	69.4	69.3	69.2	68.8	68.7	68.3	68.0	67.7	67.4	66.4	65.9	57.7	59.1	38.7	38.2	37.1
6	23.6	58.8	59.1	59.3	59.4	59.7	59.7	59.7	60.1	60.1	60.5	60.6	60.5	61.0	57.0	65.0	69.8	68.2	68.3	68.8	69.1	66.6	66.5	69.6	69.1	69.1	69.0	68.6	68.6	68.1	67.8	67.6	67.3	66.3	65.7	57.7	59.0	39.1	38.4	37.2
7	26.6	58.7	59.0	59.2	59.3	59.6	59.6	59.6	60.0	60.0	60.3	60.4	60.3	60.8	56.9	64.7	69.5	67.9	68.0	68.4	68.7	70.2	70.2	69.3	68.9	68.8	68.7	68.5	68.4	68.0	67.7	67.5	67.1	66.2	65.6	57.7	59.0	39.5	38.6	37.3
8	29.5	58.6	58.9	59.1	59.2	59.5	59.5	59.5	59.9	59.8	60.2	60.3	60.2	60.6	56.7	64.4	69.2	67.6	67.7	68.1	68.3	69.9	69.9	69.0	68.6	68.6	68.5	68.3	68.2	67.8	67.5	67.3	67.0	66.1	65.5	57.6	58.8	39.7	38.8	37.4
9	32.5	58.6	58.8	59.0	59.1	59.4	59.4	59.4	59.8	59.7	60.0	60.1	60.0	60.4	56.5	64.2	69.0	67.3	67.4	67.8	68.0	69.6	69.6	68.8	68.4	68.4	68.3	68.1	68.0	67.7	67.4	67.2	66.8	65.9	65.3	57.5	58.8	39.9	38.8	37.4
10	35.5	58.5	58.7	59.0	59.0	59.3	59.3	59.3	59.6	59.6	59.9	60.0	59.9	60.2	56.3	64.0	68.6	67.1	67.1	67.5	67.7	69.3	69.3	68.5	68.2	68.2	68.2	67.9	67.9	67.5	67.2	67.0	66.7	65.8	65.2	57.5	58.8	40.0	38.9	37.5
11	38.5	58.4	58.7	58.8	58.9	59.2	59.2	59.2	59.5	59.5	59.7	59.8	59.7	60.0	56.2	63.7	68.4	66.8	66.9	67.2	67.5	69.1	69.1	68.4	68.1	68.1	68.0	67.8	67.7	67.4	67.1	66.9	66.6	65.7	65.1	57.4	58.7	40.0	39.0	37.5
12	41.4	58.3	58.6	58.7	58.8	59.1	59.0	59.1	59.4	59.3	59.6	59.6	59.5	59.8	56.0	63.5	68.2	66.6	66.6	66.9	67.2	68.8	68.9	68.2	67.9	67.9	67.8	67.6	67.6	67.2	67.0	66.8	66.4	65.6	65.0	57.3	58.7	40.1	39.0	37.5
13	44.4	58.2	58.5	58.6	58.7	59.0	58.9	58.9	59.3	59.1	59.4	59.5	59.4	59.7	55.8	63.3	68.0	66.4	66.4	66.7	67.0	68.6	68.7	68.0	67.7	67.8	67.7	67.5	67.5	67.1	66.8	66.7	66.3	65.5	64.8	57.3	58.7	40.2	39.0	37.5
14	47.4	58.1	58.4	58.5	58.6	58.9	58.8	58.8	59.1	59.1	59.3	59.3	59.2	59.5	55.7	63.1	67.8	66.2	66.1	66.5	66.7	68.4	68.6	67.9	67.6	67.6	67.6	67.4	67.4	67.0	66.7	66.5	66.2	65.3	64.8	57.2	58.7	40.2	39.1	37.5
15	50.4	58.0	58.3	58.4	58.5	58.7	58.7	58.7	59.0	58.9	59.1	59.1	59.0	59.3	55.5	62.9	67.6	66.0	66.0	66.3	66.5	68.2	68.4	67.7	67.5	67.5	67.4	67.2	67.2	66.9	66.6	66.4	66.1	65.2	64.6	57.2	58.7	40.3	39.1	37.4
16	53.3	57.9	58.2	58.3	58.4	58.6	58.5	58.5	58.9	58.7	59.0	59.0	58.9	59.1	55.3	62.7	67.5	65.8	65.8	66.1	66.3	68.1	68.3	67.6	67.4	67.3	67.3	67.1	67.1	66.8	66.5	66.3	66.0	65.2	64.5	57.1	58.7	40.3	39.1	37.4
17	56.3	57.8	58.1	58.2	58.2	58.5	58.4	58.4	58.7	58.6	58.8	58.9	58.7	58.9	55.2	62.5	67.3	65.7	65.6	65.9	66.2	67.9	68.1	67.5	67.3	67.2	67.2	67.0	67.0	66.7	66.4	66.3	65.9	65.0	64.4	57.1	58.7	40.3	39.1	37.4
18	59.3	57.7	58.0	58.1	58.1	58.4	58.3	58.3	58.6	58.5	58.7	58.7	58.5	58.8	55.0	62.3	67.1	65.5	65.4	65.7	66.0	67.8	68.0	67.4	67.2	67.1	67.1	66.9	66.9	66.6	66.3	66.1	65.8	64.9	64.3	57.0	58.7	40.2	39.0	37.3
19	62.3	57.6	57.9	58.0	58.1	58.2	58.2	58.2	58.5	58.3	58.6	58.6	58.4	58.6	54.9	62.1	67.0	65.4	65.3	65.6	65.9	67.6	67.9	67.3	67.1	67.0	67.0	66.8	66.8	66.5	66.2	66.0	65.8	64.9	64.2	57.0	58.7	40.3	39.1	37.3
20	65.2	57.5	57.8	57.8	57.9	58.2	58.1	58.0	58.3	58.2	58.4	58.4	58.2	58.4	54.7	61.9	66.8	65.2	65.1	65.4	65.7	67.5	67.8	67.2	67.0	66.9	66.9	66.8	66.8	66.4	66.2	65.9	65.7	64.8	64.1	57.0	58.8	40.3	39.1	37.4
21	68.2	57.4	57.6	57.8	57.8	58.1	57.9	57.9	58.2	58.1	58.3	58.3	58.1	58.3	54.6	61.7	66.7	65.1	65.0	65.3	65.6	67.4	67.7	67.1	66.9	66.9	66.8	66.7	66.7	66.3	66.1	65.9	65.5	64.7	64.0	56.9	58.7	40.4	39.2	37.5
22	71.2	57.3	57.5	57.7	57.7	57.9	57.8	57.8	58.1	57.9	58.2	58.1	57.9	58.2	54.5	61.6	66.6	65.0	64.8	65.2	65.4	67.3	67.6	67.0	66.8	66.8	66.8	66.6	66.6	66.3	66.0	65.8	65.5	64.6	64.0	56.9	58.7	40.5	39.4	37.7
23	74.2	57.2	57.4	57.6	57.6	57.8	57.7	57.7	57.9	57.8	58.0	58.0	57.8	58.0	54.3	61.5	66.5	64.9	64.7	65.0	65.3	67.2	67.5	67.0	66.7	66.7	66.7	66.5	66.5	66.2	65.9	65.7	65.4	64.5	63.9	56.9	58.7	40.6	39.6	37.9
24	77.1	57.1	57.4	57.5	57.5	57.7	57.6	57.5	57.8	57.7	57.9	57.9	57.7	57.8	54.2	61.3	66.4	64.8	64.6	64.9	65.2	67.0	67.4	66.9	66.7	66.6	66.6	66.5	66.4	66.1	65.8	65.7	65.3	64.5	63.8	56.8	58.7	40.7	39.8	38.1
25	80.1	57.0	57.2	57.4	57.4	57.6	57.5	57.4	57.7	57.5	57.8	57.7	57.5	57.8	54.0	61.1	66.3	64.7	64.5	64.8	65.1	67.0	67.3	66.8	66.6	66.6	66.5	66.4	66.4	66.0	65.8	65.6	65.3	64.4	63.7	56.8	58.7	41.0	40.2	38.7
26	83.1	56.9	57.1	57.3	57.2	57.5	57.4	57.3	57.6	57.5	57.7	57.6	57.4	57.6	54.0	61.0	66.2	64.6	64.4	64.7	65.0	66.9	67.2	66.7	66.5	66.5	66.5	66.3	66.3	66.0	65.7	65.5	65.2	64.3	63.7	56.9	58.7	41.4	40.8	39.3
27	86.1	56.8	57.1	57.2	57.1	57.4	57.2	57.3	57.5	57.3	57.5	57.5	57.3	57.5	53.8	60.8	66.1	64.5	64.2	64.6	64.8	66.8	67.1	66.6	66.5	66.5	66.4	66.2	66.2	65.9	65.6	65.4	65.1	64.3	63.6	56.8	58.8	41.9	41.5	40.1
28	89.0	56.8	57.0	57.1	57.1	57.3	57.1	57.1	57.4	57.2	57.4	57.4	57.2	57.4	53.7	60.7	66.0	64.4	64.2	64.5	64.7	66.7	67.1	66.6	66.4	66.4	66.3	66.2	66.1	65.8	65.6	65.4	65.1	64.2	63.5	56.9	58.7	42.5	42.2	41.0
29	92.0	56.7	56.9	57.0	57.0	57.2	57.1	57.0	57.3	57.1	57.3	57.3	57.1	57.2	53.7	60.6	65.9	64.3	64.0	64.4	64.6	66.6	67.0	66.5	66.3	66.3	66.3	66.1	66.1	65.8	65.5	65.3	65.0	64.1	63.5	57.1	58.8	43.2	43.1	41.9
30	95.0	56.6	56.8	56.9	56.9	57.1	57.0	56.9	57.2	57.0	57.2	57.2	56.9	57.1	54.1	60.4	65.8	64.2	64.0	64.4	64.7	66.5	66.9	66.5	66.3	66.3	66.2	66.1	66.1	65.7	65.5	65.3	65.0	64.1	63.5	57.6	58.8	44.0	44.2	42.9

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Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po, New Territories Environmental Noise Impact Assessment

APPENDIX 5

JUSTIFICATION OF SWLs

Report: 22608-N1 Rev A

Job Title: Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po, N.T. Job no.: 22608

Table A5-1: Summary of Sound Power Levels of Fixed Noise Sources

Source ID	Industrial Site	Fixed Noise Sources	Quantity	Measured Sound Pressure Levels, dB(A)	Measured Distance from noise source (m)	Correction to single no. of source, dB(A)	Distance Correction, dB(A)	Correction for Tonal, dB(A)	Sound Power Levels, dB(A)	Sound Power Level of each plant adopted in the Fixed Noise Sources Assessment, dB(A)
В	Cheuk Shing Vehicle Repair Workshop	Air Compressor noise	1	72	5	0	22	0	94	94
С	Recycling Yard	Loading and unloading by crane	1	73	5	0	22	0	95	95
D	Car Repairing Workshop at Ting Kok Road	Electric screwdriver noise	1	70	8	0	26	0	96	96
F	KMB Bus Depot	Buses manoeuvring at ingress / egress inside the Bus Depot	1	72	3	0	18	0	90	90
H-1	Lee Kum Kee	Cooling towers	4		(referenc	e to Product Cat	alogue)			93
H-2	Lee Ruill Ree	Forklift	1		(refe	erence to BS522	8)			104
J	Hopewell Slipform	Crane	1		(1	reference to TM)				105
К	Techno Enterprise Limited	Cooling towers	2		(referenc	e to Product Cat	alogue)			93
М	Luen Tai Hong	Cooling towers	6		(referenc	e to Product Cat	alogue)			93
Q	Chiaphua Industries	Cooling towers	3		(referenc	e to Product Cat	alogue)			93
R	Hitachi Chemical Electronic Materials (Hong Kong) Ltd.	Cooling towers	3		(referenc	e to Product Cat	alogue)			93

Source ID: A (Tin Sam Sewage Pumping Station)



No industrial noise observed

Source ID: B (Cheuk Shing Vehicle Repair Workshop)

Photos taken on 16 May 2025





No industrial noise was observed.

Photos taken on 23 June 2022



Air compressor noise was observed, all operations were taken place within the steel cover

Westwood Hong & Associates Ltd

PROJECT: 22608

Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po TITLE:

FIGURE

Identified Fixed Noise Sources

Source ID: C (Recycling Yard)

Photos taken on 16 May 2025





A crane was observed

Crane

Photos taken on 23 June 2022





A lorry and a crane were observed

Crane

Westwood Hong & Associates Ltd

PROJECT:

22608

Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po TITLE:

Identified Fixed Noise Sources

FIGURE

Source ID: D (Car Repair Workshop at Ting Kok Road)

Photos taken on 16 May 2025



No industrial noise was observed.

Photos taken on 23 June 2022



Electric screwdriver was observed. All operations were taken place under the cover



Source ID: E (Site Office)



No industrial noise was observed

Westwood Hong & Associates Ltd

PROJECT:

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Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po TITLE:

Identified Fixed Noise Sources

FIGURE

Source ID: F (KMB Bus Depot)



Petrol Filling Station



Placing the advertisement on the bus



Bus Parking



Bus returning to / leaving from the Depot

Westwood Hong & Associates Ltd

PROJECT:

22608

Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po

TITLE:

Identified Fixed Noise Sources

FIGURE

Source ID: G (MTRC Tai Po Bus Station)





No industrial noise was observed

Gate was closed

Source ID: H (Lee Kum Kee)



4 cooling towers



A forklift was observed

Westwood Hong & Associates Ltd

PROJECT:

22608

Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po TITLE:

Identified Fixed Noise Sources

FIGURE

Source ID: J (Hopewell Slipform)

Photos taken on 16 May 2025



No industrial noise observed

Photos taken on 23 June 2022





A crane was observed

Source ID: K (Techno Enterprise Limited)



2 cooling towers were observed

Westwood Hong & Associates Ltd

PROJECT:

22608

Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po TITLE:

Identified Fixed Noise Sources

FIGURE

Source ID: L (Jackel Porter Co. Ltd)



No industrial noise was observed

Source ID: M (Luen Tai Hong)



6 cooling towers

Westwood Hong & Associates Ltd

PROJECT:

22608

Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po TITLE:

Identified Fixed Noise Sources

FIGURE

Source ID: N (OPC Manufacturing Ltd.)

Photos taken on 16 May 2025



Cooling towers were removed

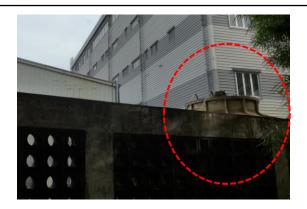


Cooling tower was removed

Photos taken on 23 June 2022



2 cooling towers (rooftop)



Cooling tower (ground level)

Source ID: P (Vantage Technology Ltd.)



No industrial noise was observed

Westwood Hong & Associates Ltd

PROJECT:

22608

Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po TITLE:

Identified Fixed Noise Sources

FIGURE

Source ID: Q (Chiaphua Industries)



3 cooling towers

Source ID: R (Hitachi Chemical Electronic Materials (Hong Kong) Ltd.)



3 Cooling towers at rooftop

Westwood Hong & Associates Ltd

PROJECT:

22608

Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po

TITLE:

Identified Fixed Noise Sources

FIGURE

Product Catalogue

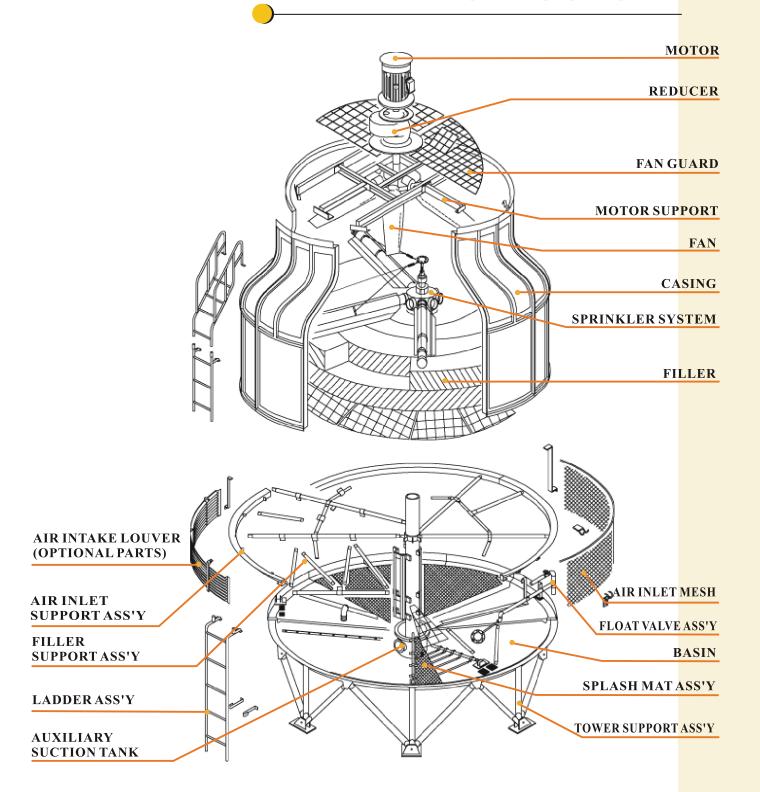




COOLING TOWER



STRUCTURE



PRINCIPLE OF OPERATION

Hot water is distributed over the filler through the low velocity automatic sprinkler system and is mixed with the upward draft of ambient air causing evaporation and thus heat is removed from the water. The cooled water falls into the basin and is pumped to the heat sources for recirculation.

COMPONENT FUNCTION & FEATURE

AXIAL FAN

All fans are induced-draft axial type with adjustable pitch. Material chosen are non-corrosion of plastic, FRP or alu-minium alloy. The high efficiency design ensures low running cost and the lowest possible noise level. Fan blade pitches is factory set and balanced.



MOTOR



The motors, totally enclosed, fan cooled flange type, 380V/3ph/50 Hz, induction weather proof, are specially designed for RYOWO. Motors from 5.5 kw and up are Y- start and below are direct-on-line start.

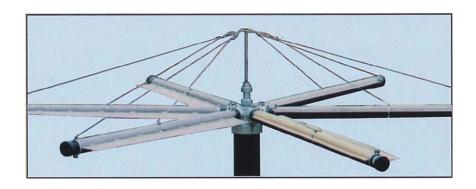
TRANSMISSION SYSTEM

The fans of small models are designed to be driven by low speed motor of 6,8,10 or 12 poles which can minimise the numbers of transmission parts used. For large models, the fans are vee-belt or gear driven with 4 poles motors so the speed of fans can be adjustable to suit various application.



SPRINKLER SYSTEM

Automatic rotary sprinkler system with rotary head and sprinkler pipe distributes the hot water over the entire face area of the filler. Sprinkler pipes are non-clogging, require low-pressure to operate, and assures uniform water flow with minimal operating pump head. The F.R.P. eliminators attached to sprinkler pipes are specifically designed for Low pre Ssure drop and minimises the drift loss of water.



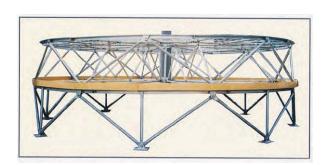
COMPONENT FUNCTION & FEATURE

CASING & BASIN

F.R.P. (fibreglass reinforced polyester) formed casings are durable, non-corrosive, weather-proof, and light weight. Cylindrical form is shaped to fully withstand wind pressure, vibration and such F.R.P. casings obliviate need for painting, reduce maintenance costs and guarantee long dependable service.

Bowl-shape basins are also made from F.R.P. with built in socket or flanged outlets for piping connections. For large models, a F.R.P. aux. suction tank is employed and fitted with piping flanges or sockets.





STEEL STRUCTURE

All supporting steel members are hot-dip galvanized to minimise rusting and corrosion ensuring long service life even in corrosive atmosphere. The stainless hardware members are also available upon request.

FILLER

High performance RYOWO V-30 film filler is the heart of the tower. The specially formed PVC sheets maximize the air/water contact area and minimise air pressure drop to assure efficient heat transfer while keeping fan power requirement low. It is virtually immune to corrosion and decay.



Eliminator

Specially made drift eliminator consisted of 2 types of sheets forms a "v" shape path for the transmission of the cooling tower discharge air stream. The small water droplets in the stream impact the surfaces of the drift eliminator sheets and are separated from the stream such that the drift loss ratio maintain at less than 0.001% of circulating water flow rate.





SPLASH MAT (LOW NOISE MODELS)

Specially designed noise absorbing splash mat is provided for low noise models on the water basin to minimise the unpleasant water dripping noise in the basin.

SPECIFICATION FOR FT SERIES FT-25



SPECIFICATION FOR FT SERIES

ITEM		MODEL		FT-8	FT-10	FT-15	FT-20	FT-25 FT	FT-30 FT-40	-40 FT-50	0 FT-60	FT-80	FT-100	FT-125 F	FT-150 FT	FT-175 FT-200	200 FT-225	5 FT-250	FT-300	FT-350	FT-400	FT-500	FT-600	FT-700 F7	FT-800 FT-1000
		Circulating water flow rate	m³/ hr	6.2	7.8	11.7	15.6	19.5 2	23.4 31	31.2 39.1	1 46.9	62.5	78.1	1 2.76	117.2 1:	136.7 156.2	5.2 175.8	195.3	234.4	273.4	312.5	390.6	468.7	546.8	625.0 781.2
	27 °C WB	Make-up water (Approx.)	m³/ hr	0.1	0.1	0.2	0.2	0.3	0.3 0	0.4 0.6	5 0.7	6:0	1.1	1.4	1.7	2.0 2.2	2 2.5	2.8	3.4	3.9	4.5	5.6	6.7	7.8	8.9 11.2
	28 °C WB	Circulating water flow rate	m³/ hr	9.6	7.4	9.01	14.4	17.8	21.5 2	28.7 36.3	.3 42.5	58.8	9.07	88.2	5.701	125.0 14	142.5 160.0	0 176.2	212.5	250.0	287.5	337.5	431.2	512.4	575.0 718.7
Capacity		Make-up water (Approx.)	m³/ hr	0.1	0.1	0.2	0.2	0.3	0.3	0.4 0.5	9.0	8.0	0.1	1.3	1.5	1.8 2.0	0 2.3	2.5	3.0	3.6	4.1	4.8	6.2	7.3	8.2 10.3
	A	Air flow rate (Approx.)	m³/ min	70	85	140	160	230 2	280 33	330 420	450	200	830	056	1150 1	1200 12	1250 1600	1750	2000	2200	2450	2700	3500	3750	5000 5400
	E	Hot water temperature	ى 0،												37										
	0	Cold water temperature	٥,												32										
;	Diameter (φ)		шш	920	920	1160		1490		1660 1890	_	2100	2900	2900	2900 3.	3310 3310		3960	4360	4760	4760	2600	0099	0099	0092 0092
Overall	Height (H)		mm	1560	1700	1585	1835	1945	1885 20	2035 2110	0 2300	2475	2910	3110	3110 3	3300 3450	50 3920	3920	3990	4195	4255	4590	5310	5510	2660 5860
Dimension	Height (w/o motor) (m)	m) (m)	mm	1390	1530	1395	1645	1760	1720	1785 1860	0861 09	2155	2590	2790	2790 2	2880 3030	3300	3300	3290	3495	3495	3830	4470	4670	4720 4940
	Air inlet mesh											PVC													
	Basin											FRP													
	Casing											FRP													
	Eliminator											FRP													
	Fan					A	ABS Plastic					FRP						Aluminium alloy	m alloy					FRP	
Material	Filler											PVC													
	Motor support											Ste	Steel (Hot-dip galvanized)	(vanized)											
	Sprinkler head					[*]	ABS Plastic										Ah	Aluminium alloy							
	Sprinkler pipe											П	PVC pipe												
	Stand pipe											Ы	PVC pipe												
	Structure												Steel (Steel (Hot-dip galvanized)	nized)										
	TYPE												Axial-flow	-flow											
Don	Diameter		mm	550	640		7	770		930		1200		1500		1800			2400		3000	0	3400		3700
r all	Speed		шdı				6	026					750			009			450		375			314	
	Driven type												Direct	Direct driven					Be	Belt driven				Gear driver	en
	TYPE												Totally	v enclosed far	r cooled outd	oor 3 phase ii	Totally enclosed fan cooled outdoor 3 phase induction motor								
Motor	Power source												380V	380V / 3 / 50Hz											
	Rated output		kw	0.18	81	0.37	7	0. 5			1.5			2.2		3.7		5.5		7.5	11		15		22
	No of pole		Pole				9						8			10					4				
	TYPE												Automa	Automatic sprinkler system	ystem										
Distribution	Inlet dia		mm	4	40	50			80			100	125	16		150			200				250		300
System	Outlet dia			-	15	20				40					9				75			100	75		100
	No of outlet						4					9	4						9				∞		10
	Inlet		mm	4	40	20			80			100	125	5:		150			200				250		300
	Outlet		mm	4	40	50			80			100	12	125		150			200				250		300
i.	Drain		mm					25							50				80					100	
Fiping	Overflow		mm					25							50				80					100	
	Float valve		mm					15					20			25			32				50		80
	Manual make-up		mm					15						20		25			32				50		80
Weight	Dry weight		Kg	99	99	75	85	105		150 180	250	270	200	540	-			1350		1720	2050	2450		4050	4700 4900
ang.	Operating weight		Kg	140	150	200	210		370 39	390 550		860	1600	1640	1680 2	2170 2200	00 2700	2750	3350	3720	3950	6150	9350	9450 1	11900 12100
Noise Level	Sound pressure level	evel	dBA	45.5	47	84	90	52	54	58 59	28	59	19	61.5	62	62 62	2 63	63	<u>z</u>	64.5	61.5	62	65	99	73

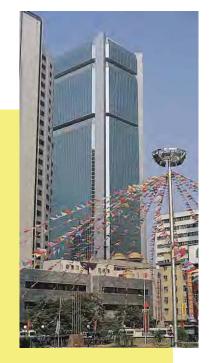
NOTE: Nominal cooling capacity is based on 13 ℓ / min / RT (1 RT=3,900 Kcal / hr) at 37°C inlet water tymperature, 32°C outlet water temperature and 27°C ambient wet bulb temperature.

The SPLs are measured 16m horizontally from the edge of the tower at 1.5m above the foundation level.

Pump head is obtained by adding resistance of piping/condenser and the tower height(H).

The unit dimension in this catalogue is metric. Specifications listed in this catalogue are subject to change without further noticefor technical improvement of our products.

JOB REFERENCES



FT-400 X 2
Bank of China, Shen Zhen

FT/LN-300 X 6
Hong Kong University

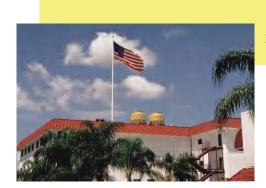


FT/LN-600 X 11 Hotel Lisboa, Macau



FT-1000 X 3 FT-500 X 10 CITIC Plaza, Guangzhou





FT-200 X 2 Miami University, U.S.A

RYOWO (HOLDING) CO.,LTD.

Room 1908, Nathan Road 700 Mong Kok, Kowloon HongKong.

Tel: (852) 23918381 Fax: (852) 27893802 Http://www.ryowo.com e-mail: ryinfo@ryowo.com

DONGGUAN RYOWO COOLING TOWER CO., LTD.

No.263 MeiJing Road West, Dalang, Dongguan, Guangdong, PRC

Tel: (86)-769 89399698 Fax: (86)-769 82973398 (86)-769 89399699 Postal Code: 523795



COOLING TOWER MANUFACTURER SINCE 1978

Job Title: Fung Yuen

Job no.: 22444

FT-25:

SPL	52 dB(A)
Measurement distance (D)	16 m
Correction	32.1
SWL (SPL + 20*logD + 8)	84 dB(A)
Corrections:	
Directivity:	3
Deterioration:	3
Tonality:	3
SWL adopted in the assessment:	93 dB(A)

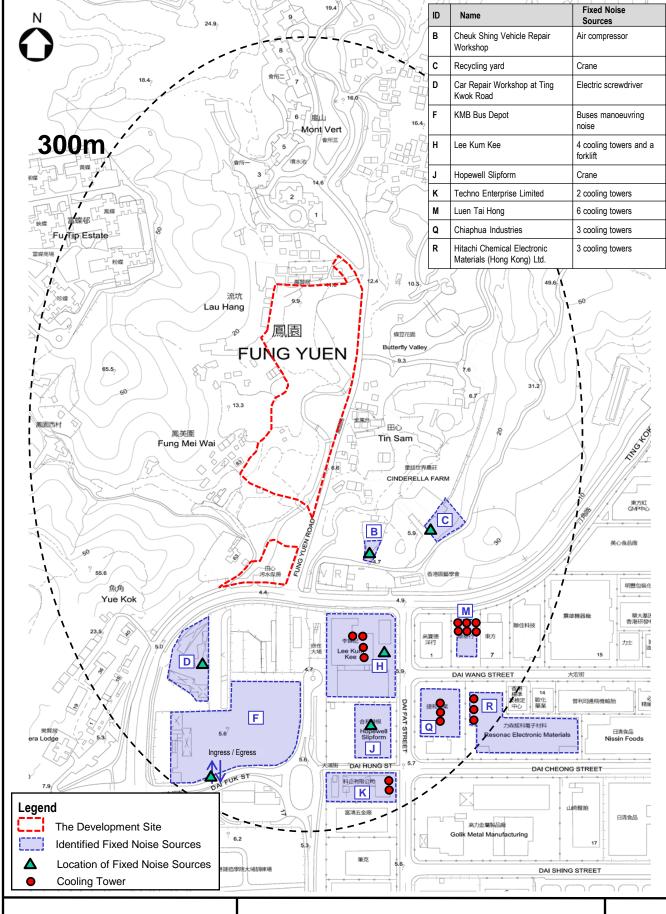
(refer to product catalogue)

Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po, New Territories Environmental Noise Impact Assessment

APPENDIX 6

FIXED NOISE SOURCES ASSESSMENT FOR THE PROPOSED DEVELOPMENT

Report: 22608-N1 Rev A



Westwood Hong & Associates Ltd

PROJECT: 22608

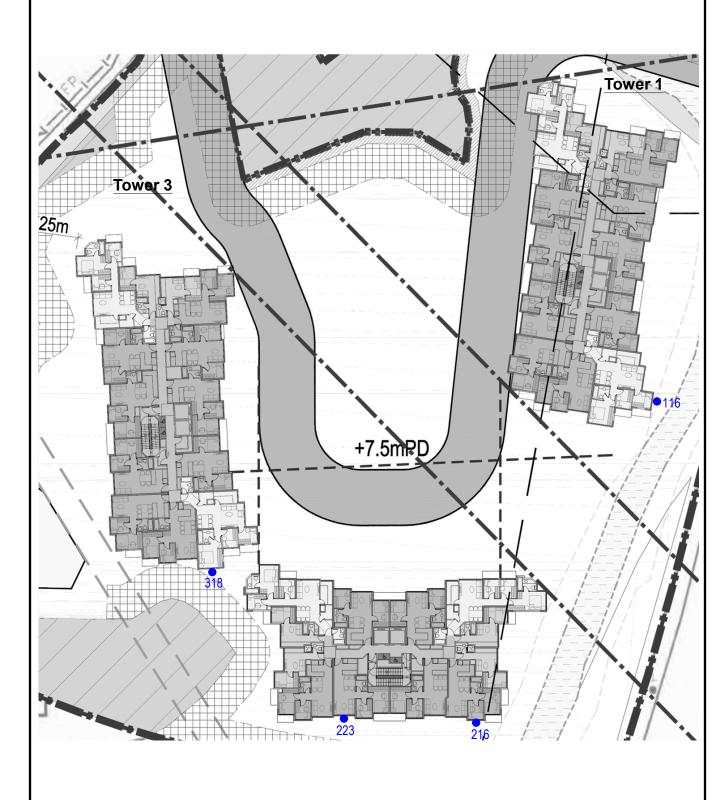
Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po TITLE:

Location of Identified Fixed Noise Sources

FIGURE

A6-1





Westwood Hong & Associates Ltd

PROJECT:

22608

Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po

TITLE:

Location of Assessment Point for Fixed Noise Assessment

FIGURE

A6-2

Predicted Industrial Noise Levels in Daytime Period

 Job Title.:
 Fung Yuen

 Job No.:
 22608

 Date:
 26/9/2025

Floor	NSR 116	NSR 216	NSR 223	NSR 318
1/F	55.5	56.3	55.9	55.2
2/F	55.5	56.3	55.9	55.2
3/F	55.4	56.3	55.9	55.2 55.2
4/F	55.4 55.4	56.3	55.9	55.2 55.2
5/F	55.4 55.4	56.2	55.9	55.2 55.2
6/F	55.4 55.4	56.2 56.2		
7/F			55.9 55.0	55.1
	55.4	56.2	55.9 55.0	55.1
8/F	55.4	56.2	55.9	55.1
9/F	55.4	56.2	55.9 55.0	55.1
10/F	55.4	56.2	55.9 55.0	55.1
11/F	55.4	56.1	55.8	55.1
12/F	55.3	56.1	55.8	55.1
13/F	55.3	56.1	55.8	55.1
14/F	55.3	56.1	55.8	55.0
15/F	55.3	56.1	55.8	55.0
16/F	55.3	56.0	55.7	55.0
17/F	55.2	56.0	55.7	55.0
18/F	55.2	56.0	55.7	55.0
19/F	55.2	56.0	55.7	55.0
20/F	55.2	55.9	55.6	54.9
21/F	55.2	55.9	55.6	54.9
22/F	55.1	55.9	55.6	54.9
23/F	55.1	55.8	55.6	54.9
24/F	55.1	55.8	55.5	54.9
25/F	55.0	55.8	55.5	54.8
26/F	55.0	55.7	55.5	54.8
27/F	55.0	55.7	55.5	54.8
28/F	55.0	55.7	55.4	54.8
Max:	55.5	56.3	55.9	55.2
Noise	00.0	00.0	00.0	00.0
Criterion	60.0	60.0	60.0	60.0
Compliance	YES	YES	YES	YES

Remark: The predicted noise levels were assessed at the height of 1.2m above each residential floor and 1m away from the façade of the opened windows of the noise sensitive receivers as stated in Section 7.3

Predicted Industrial Noise Levels in Night-time Period

 Job Title.:
 Fung Yuen

 Job No.:
 22608

 Date:
 26/9/2025

Floor	NSR 116	NSR 216	NSR 223	NSR 318
1/F	31.8	32.8	32.9	32.6
2/F	31.8	32.8	32.9	32.6
3/F	31.8	32.8	32.9	32.6
4/F	31.8	32.8	32.9	32.6
5/F	31.8	32.8	32.9	32.6
6/F	31.8	32.8	32.9	32.6
7/F	31.8	32.8	32.9	32.6
8/F	31.8	32.8	32.9	32.6
9/F	31.8	32.8	32.9	32.6
10/F	31.8	32.8	32.9	32.6
11/F	31.8	32.8	32.9	32.6
12/F	31.8	32.7	32.8	32.5
13/F	31.8	32.7	32.8	32.5
14/F	31.8	32.7	32.8	32.5
15/F	31.8	32.7	32.8	32.5
16/F	31.8	32.7	32.8	32.5
17/F	31.8	32.7	32.8	32.5
18/F	31.8	32.7	32.8	32.5
19/F	31.7	32.7	32.8	32.5
20/F	31.7	32.7	32.8	32.5
21/F	31.7	32.7	32.8	32.5
22/F	31.7	32.7	32.8	32.5
23/F	31.7	32.6	32.7	32.5
24/F	31.7	32.6	32.7	32.4
25/F	31.7	32.6	32.7	32.4
26/F	31.7	32.6	32.7	32.4
27/F	31.7	32.6	32.7	32.4
28/F	31.7	32.6	32.7	32.4
Max:	31.8	32.8	32.9	32.6
Noise	F0.0	F0.0	F0.0	50.0
Criterion	50.0	50.0	50.0	50.0
Compliance	YES	YES	YES	YES

Remark: The predicted noise levels were assessed at the height of 1.2m above each residential floor and 1m away from the façade of the opened windows of the noise sensitive receivers as stated in Section 7.3

Calculation of Industrial Noise Levels (Daytime Period)

Job Title.: Fung Yuen Job No.: 22608 Date: 26/09/25

NSR	NSR 116	Xr	836593									
	1/F	Yr	835703									
		Hr	16.9									
					rce location	n & dista	ance		Correc			CNL
Source ID	Description	SWL	No.	Xs	Ys	Hs	Lsr	Cno	CLsr	Csri	Cfac	dB(A)
В	Cheuk Shing Vehicle Repair Workshop - Air compressor noise	94	1	836660	835577	5	142.5	0	-51.1	0.0	3	45.9
С	Recycling yard - loading and unloading by crane	95	1	836742	835600	6	180.9	0	-53.1	0.0	3	44.9
D	Car Repairing Workshop at Ting Kok Road - Electric screwdriver noise	96	1	836428	835427	6	321.0	0	-58.1	0.0	3	40.9
F	KMB Bus Depot - manoeuvring at ingress / egress and insider the Bus Depot	90	1	836439	835274	6	455.4	0	-61.2	0.0	3	31.8
H-1	Lee Kum Kee - Cooling Towers	93	4	836639	835466	12	241.0	6	-55.6	0.0	3	46.4
H-2	Lee Kum Kee - Forklift	104	1	836693	835398	6	320.3	0	-58.1	0.0	3	48.9
J	Hopewell Slipform - Crane	105	1	836667	835333	6	377.0	0	-59.5	0.0	3	48.5
K	Techno Enterprise Limited - Cooling tower	93	2	836687	835268	10	444.3	3	-61.0	0.0	3	38.1
М	Luen Tai Hong - Cooling tower	93	6	836795	835487	12	295.1	8	-57.4	0.0	3	46.4
Q	Chiaphua Industrial - Cooling tower	93	3	836758	835369	12	371.9	5	-59.4	0.0	3	41.4
R	Hitachi Chemical Electronic Materials (Hong Kong) Ltd - Cooling Tower	93	3	836803	835382	12	382.7	5	-59.7	0.0	3	41.1
										7	ΓΟΤΑL	55.5

Definition of terms:

SWL - the sound power level of a source, dB(A)

LAeq - the equivalent continuous noise level over a 30 minute period, dB(A)

No. - the number of items of plant operating simultaneously

Xr, Yr, Hr - the coordinates of the NSR, m

Xs, Ys, Hs - the coordinates of the source, m

Lsr - the slant distance between the source and NSR, m

Cno - correction for no. of plant items
CLsr - the correction for slant distance

- the correction for slant distance between the source and the NSR, dB(A)

Cfac - the facade correction, dB(A)

Csri - the sound reduction provided by the building envelope, dB(A)

CNL - the corrected noise level, dB(A)(30 minutes)

Calculation of Industrial Noise Levels (Night-time Period)

Job Title.: Fung Yuen Job No.: 22608 Date: 26/09/25

NSR	NSR 116	Xr:	836593									
	1/F	Yr :	835703									
		Hr:	16.9									
					rce locatio		1	_	Correc			CNL
Code	Description	SWL	No.	Xs	Ys	Hs	Lsr	Cno	CLsr	Csri	Cfac	dB(A)
В	Cheuk Shing Vehicle Repair Workshop - Air compressor noise	94	0	836660	835577	5	142.5	0	-51.1	0.0	3	0.0
С	Recycling yard - loading and unloading by crane	95	0	836742	835600	6	180.9	0	-53.1	0.0	3	0.0
D	Car Repairing Workshop at Ting Kok Road - Electric screwdriver noise	96	0	836428	835427	6	321.0	0	-58.1	0.0	3	0.0
F	KMB Bus Depot - manoeuvring at ingress / egress and insider the Bus Depot	90	1	836439	835274	6	455.4	0	-61.2	0.0	3	31.8
H-1	Lee Kum Kee - Cooling Towers	93	0	836639	835466	12	241.0	0	-55.6	0.0	3	0.0
H-2	Lee Kum Kee - Forklift	104	0	836693	835398	6	320.3	0	-58.1	0.0	3	0.0
J	Hopewell Slipform - Crane	105	0	836667	835333	6	377.0	0	-59.5	0.0	3	0.0
К	Techno Enterprise Limited - Cooling tower	93	0	842274	816999	15	19547.4	0	-93.8	0.0	3	0.0
М	Luen Tai Hong - Cooling tower	93	0	842295	816989	15	19563.0	0	-93.8	0.0	3	0.0
Q	Chiaphua Industrial - Cooling tower	93	0	842302	816997	15	19557.3	0	-93.8	0.0	3	0.0
R	Hitachi Chemical Electronic Materials (Hong Kong) Ltd - Cooling Tower	93	0	842310	817006	15	19551.1	0	-93.8	0.0	3	0.0
										•	TOTAL	31.8

Definition of terms:

SWL - the sound power level of a source, dB(A)

LAeq - the equivalent continuous noise level over a 30 minute period, dB(A)

No. - the number of items of plant operating simultaneously

Xr, Yr, Hr
- the coordinates of the NSR, m
Xs, Ys, Hs
- the coordinates of the source, m

Lsr - the slant distance between the source and NSR, m

Cno - correction for no. of plant items

- the correction for slant distance between the source and the NSR, dB(A)

Cfac - the facade correction, dB(A)

CLsr

Csri - the sound reduction provided by the building envelope, dB(A)

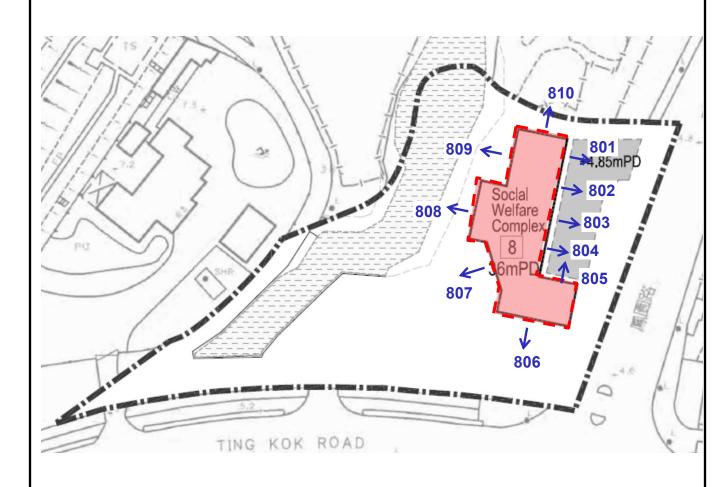
CNL - the corrected noise level, dB(A)(30 minutes)

Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po, New Territories Environmental Noise Impact Assessment

APPENDIX 7

NOISE IMPACTS FOR RCHE AND DCU

Report: 22608-N1 Rev A







RCHE & DCU

→ 801 Assessment Point No. 801

Westwood Hong & Associates Ltd

PROJECT:

22444

Proposed Residential Development with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po

TITLE:

Locations of Noise Assessment Point (Road Traffic Noise Assessment for RCHE & DCU)

FIGURE

A7-1

Predicted Façade Noise Levels for Road Traffic Noise for RCHE & DCU – Base Scenario

	Receiver									
				So	cial Welfa	re Compl	ex			
Floor	801	802	803	804	805	806	807	808	809	810
1	74.9	75.0	74.9	73.5	72.9	80.0	75.8	73.8	66.7	68.6
2	74.8	75.0	74.8	73.4	72.8	79.9	75.7	73.8	66.7	68.6
3	74.7	74.8	74.7	73.2	72.4	79.7	75.6	73.7	66.6	68.4
4	74.5	74.6	74.5	73.0	72.0	79.4	75.4	73.6	66.4	68.2
5	74.3	74.4	74.2	72.7	71.6	79.1	75.2	73.4	66.3	68.0
6	74.1	74.2	74.0	72.4	71.3	78.8	74.9	73.3	66.1	67.8
7	73.9	74.0	73.8	72.1	70.9	78.5	74.7	73.1	65.9	67.6
8	73.7	73.8	73.5	71.9	70.6	78.2	74.5	72.9	65.7	67.4

Remark:

- The representative NSRs for Social Welfare Complex will exceed the stipulated noise limits.

Predicted Façade Noise Levels for Road Traffic Noise for RCHE & DCU - With Noise Mitigation Measure

	Receive	•								
				S	ocial We	Ifare Com	plex			
Floor	801	802	803	804	805	806	807	808	809	810
1	67.4	67.5	67.4	66.0	65.4	72.5	68.3	66.3	66.7	68.6
2	67.3	67.5	67.3	65.9	65.3	72.4	68.2	66.3	66.7	68.6
3	67.2	67.3	67.2	65.7	64.9	72.2	68.1	66.2	66.6	68.4
4	67.0	67.1	67.0	65.5	64.5	71.9	67.9	66.1	66.4	68.2
5	66.8	66.9	66.7	65.2	64.1	71.6	67.7	65.9	66.3	68.0
6	66.6	66.7	66.5	64.9	63.8	71.3	67.4	65.8	66.1	67.8
7	66.4	66.5	66.3	64.6	63.4	71.0	67.2	65.6	65.9	67.6
8	66.2	66.3	66.0	64.4	63.1	70.7	67.0	65.4	65.7	67.4

Remark:

Government Land, Fung Yuen, Tai Po

- According to the ProPECC PN5/23, the Acoustic Window (Baffle Type) together with the sound absorptive material will have 7.5dB(A) noise reduction. With the provision of this acoustic window, all the NSRs of RCHE except NSR 806 will comply with the noise limit. The southern façade facing Ting Kok Road will have significant noise exceedance, fixed glazing and no noise sensitive rooms of RCHE will be adopted at the southern façade.
- The presented predicted noise level after adopting acoustic windows (baffle type) (i.e. mitigated noise level) does not necessarily represent the noise level at 1m away from the external façade, but the equivalent noise level at 1m from the external façade after accounting the reduction in noise levels inside the flat offered by the acoustic windows (baffle type).

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22444 Proposed Residential Development with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining	Predicted Façade Noise Levels for Road Traffic Noise for RCHE & DCU	A7-2

Predicted Industrial Noise Levels in Daytime Period

 Job Title.:
 Fung Yuen

 Job No.:
 22444

 Date:
 05/06/2025

Floor		NSR 804	
1/F		58.3	
2/F		58.3	
3/F		58.3	
4/F		58.3	
5/F		58.3	
6/F		58.3	
7/F		58.2	
8/F		58.2	
	Max:	58.3	
		60.0	

Noise Criterion 60.0 YES

Remark: The predicted noise levels were assessed at the height of 1.2m above each residential floor and 1m away from the façade of the opened windows of the noise sensitive receivers as stated in Section 7.3

Predicted Industrial Noise Levels in Night-time Period

Job Title.: Fung Yuen Job No.: 22444 Date: 05/06/2025

Floor	NSR 804	
1/F	35.3	
2/F	35.3	
3/F	35.3	
4/F	35.3	
5/F	35.3	
6/F	35.3	
7/F	35.3	
8/F	35.3	
Max:	35.3	
Noise Criterion	50.0	

Noise Criterion 50.0
Compliance YES

Remark: The predicted noise levels were assessed at the height of 1.2m above each residential floor and 1m away from the façade of the opened windows of the noise sensitive receivers as stated in Section 7.3

- correction for no. of plant items

Calculation of Industrial Noise Levels (Daytime Period)

Job Title.: Fung Yuen Job No.: 22444 20/08/25 Date:

NSR	NSR 804	Xr :	836543									
	8/F	Yr :	835562									
		Hr:	33.0	_								
0 15		014/1			rce location				Correc		01	CNL
Source ID	Description	SWL	No.	Xs	Ys	Hs	Lsr	Cno	CLsr	Csri	Cfac	dB(A)
			,	202222		_	101.0		40.7			47.0
В	Cheuk Shing Vehicle Repair Workshop - Air compressor noise	94	1	836660	835577	5	121.8	0	-49.7	0.0	3	47.3
С	Recycling yard - loading and unloading by crane	95	1	836742	835600	6	205.0	0	-54.2	0.0	3	43.8
D	Car Repairing Workshop at Ting Kok Road - Electric screwdriver noise	96	1	836428	835427	6	178.8	0	-53.0	0.0	3	46.0
F	KMB Bus Depot - manoeuvring at ingress / egress and insider the Bus Depot	90	1	836439	835274	6	307.2	0	-57.7	0.0	3	35.3
H-1	Lee Kum Kee - Cooling Towers	93	4	836639	835466	12	137.6	6	-50.8	0.0	3	51.2
H-2	Lee Kum Kee - Forklift	104	1	836693	835398	6	224.1	0	-55.0	0.0	3	52.0
J	Hopewell Slipform - Crane	105	1	836667	835333	6	262.2	0	-56.4	0.0	3	51.6
K	Techno Enterprise Limited - Cooling tower	93	2	836687	835268	10	328.1	3	-58.3	0.0	3	40.7
М	Luen Tai Hong - Cooling tower	93	6	836795	835487	12	264.1	8	-56.4	0.0	3	47.3
Q	Chiaphua Industrial - Cooling tower	93	3	836758	835369	12	290.0	5	-57.2	0.0	3	43.5
R	Hitachi Chemical Electronic Materials (Hong Kong) Ltd - Cooling Tower	93	3	836803	835382	12	317.0	5	-58.0	0.0	3	42.8
										-	TOTAL	58.2

Definition of terms:

Lsr

SWL - the sound power level of a source, dB(A)

- the slant distance between the source and NSR, m

- the equivalent continuous noise level over a 30 minute period, dB(A) LAeq CLsr - the correction for slant distance between the source and the NSR, dB(A)

No. - the number of items of plant operating simultaneously Cfac - the facade correction, dB(A)

Xr, Yr, Hr - the coordinates of the NSR, m Csri - the sound reduction provided by the building envelope, dB(A)

- the coordinates of the source, m Xs, Ys, Hs CNL - the corrected noise level, dB(A)(30 minutes)

Calculation of Industrial Noise Levels (Night-time Period)

Job Title.: Fung Yuen Job No.: 22444 Date: 20/08/25

NSR	NSR 804	Xr	836543									
	8/F Yr : 835562											
	Hr : 33.0											
		Source location & distance Corrections				CNL						
Code	Description	SWL	No.	Xs	Ys	Hs	Lsr	Cno	CLsr	Csri	Cfac	dB(A)
В	Cheuk Shing Vehicle Repair Workshop - Air compressor noise	94	0	836660	835577	5	121.8	0	-49.7	0.0	3	0.0
С	Recycling yard - loading and unloading by crane	95	0	836742	835600	6	205.0	0	-54.2	0.0	3	0.0
D	Car Repairing Workshop at Ting Kok Road - Electric screwdriver noise	96	0	836428	835427	6	178.8	0	-53.0	0.0	3	0.0
F	KMB Bus Depot - manoeuvring at ingress / egress and insider the Bus Depot	90	1	836439	835274	6	307.2	0	-57.7	0.0	3	35.3
H-1	Lee Kum Kee - Cooling Towers	93	0	836639	835466	12	137.6	0	-50.8	0.0	3	0.0
H-2	Lee Kum Kee - Forklift	104	0	836693	835398	6	224.1	0	-55.0	0.0	3	0.0
J	Hopewell Slipform - Crane	105	0	836667	835333	6	262.2	0	-56.4	0.0	3	0.0
K	Techno Enterprise Limited - Cooling tower	93	0	842274	816999	15	19428.0	0	-93.8	0.0	3	0.0
М	Luen Tai Hong - Cooling tower	93	0	842295	816989	15	19443.7	0	-93.8	0.0	3	0.0
Q	Chiaphua Industrial - Cooling tower	93	0	842302	816997	15	19438.1	0	-93.8	0.0	3	0.0
R	Hitachi Chemical Electronic Materials (Hong Kong) Ltd - Cooling Tower	93	0	842310	817006	15	19431.9	0	-93.8	0.0	3	0.0
	TOTAL 35.3							35.3				

Definition of terms:

SWL - the sound power level of a source, dB(A)

LAeq - the equivalent continuous noise level over a 30 minute period, dB(A)

No. - the number of items of plant operating simultaneously

Xr, Yr, Hr
- the coordinates of the NSR, m
Xs, Ys, Hs
- the coordinates of the source, m

Lsr - the slant distance between the source and NSR, m

Cno - correction for no. of plant items

CLsr

Cfac

- the correction for slant distance between the source and the NSR, dB(A)

the facade correction, dB(A)

Csri - the sound reduction provided by the building envelope, dB(A)

CNL - the corrected noise level, dB(A)(30 minutes)

Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po, New Territories Environmental Noise Impact Assessment

APPENDIX 8

JUSTIFICATION OF NOSIE PEERFROMANCE

Report: 22608-N1 Rev A

Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D. 11 and Adjoining Government Land, Fung Yuen, Tai Po, New Territories

Justification of Noise Performance for Acoustic Window (Baffle Type), for Living Room

Table A8-1: Comparison of the Various Parameters of Acoustic Window

Key Parameters	Dimensions in Reference Case [1]	LIV
Room Size (m ²)	18	14.0
Outer Opening Area (m²)	1.125	1.125
Gap Width (mm)	100	100
Overlapping Width (mm)	100	100
With Sound Absorptive Material (SAM) in plenum	No	No
Noise Reduction (dB(A))	7	4

Note:

Table A8-2: Correction for Room Size

	LIV
Room Size (ref) (m ²)	18
Room Size (m ²)	14.0
Room Size, dB(A) ^[1]	-1.1

Note:

Table A8-3: Corrected Noise Reduction

	LIV
Reduction Performance (ref) (dB(A)) (Table A8-1)	7.0
Corrected Noise Reduction (dB(A)) [1]	5.9

Note:

Conclusion

With considering the room size correction, the noise reduction of Acoustic Window (baffle type) would be 5.9dB(A). Hence, assumption of 4dB(A) noise reduction in the assessment is a conservative approach.

^[1] Reference to the ProPECC 5/23 "Application of Innovative Noise Mitigation Designs in Planning Private Residential Devleopments against Road Traffic Noise Impact" "

^[1] Correction for room area is calculated by 10 log [Room Size / Room Size (ref)]

^[1] Corrected Noise Reduction = Reduction Performance (ref) in Table A8-1 + Correction for Room Size in Table A8-2

Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D. 11 and Adjoining Government Land, Fung Yuen, Tai Po, New Territories

Justification of Noise Performance for Acoustic Window (Baffle Type), for Bedroom

Table A8-4: Comparison of the Various Parameters of Acoustic Window

Key Parameters	Dimensions in Reference Case [1]	Bedroom
Room Size (m ²)	8	5.0
Outer Opening Area (m²)	0.522	0.522
Gap Width (mm)	100	100
Overlapping Width (mm)	100	100
With Sound Absorptive Material (SAM) in plenum	No	No
Noise Reduction (dB(A))	6	4

Note:

Table A8-5: Correction for Room Size

	Bedroom
Room Size (ref) (m ²)	8
Room Size (m ²)	5.0
Room Size, dB(A) ^[1]	-2.0

Note:

Table A8-6: Corrected Noise Reduction

	Bedroom
Reduction Performance (ref) (dB(A)) (Table A8-4)	7.0
Corrected Noise Reduction (dB(A)) [1]	5.0

Note:

Conclusion

With considering the room size correction, the noise reduction of Acoustic Window (baffle type) would be 5dB(A). Hence, assumption of 4dB(A) noise reduction in the assessment is a conservative approach.

^[1] Reference to the ProPECC 5/23 "Application of Innovative Noise Mitigation Designs in Planning Private Residential Devleopments against Road Traffic Noise Impact" "

^[1] Correction for room area is calculated by 10 log [Room Size / Room Size (ref)]

^[1] Corrected Noise Reduction = Reduction Performance (ref) in Table A8-4 + Correction for Room Size in Table A8-5

Proposed Residential Development(s) with Retail, Public Vehicle Park and Social Welfare Facilities at Various Lots in D.D.11 and Adjoining Government Land, Fung Yuen, Tai Po, New Territories Environmental Noise Impact Assessment

APPENDIX 9

SCHEDULE OF NOISE MITIGATION MEASURES

Report: 22608-N1 Rev A

Proposed Residential Development at Fung Yuen Road, Tai Po, N.T.

Schedule of Noise Mitigation Measures

1. Acoustic Window (Baffle Type) (refer to Figures 5a – 5c and Appendix 4)

Tower	Floor	Location	NSR no. (refer to Figure A3)
	1/F – 8/F	MBR	104
	1/F – 7/F	LIV	105
	1/F – 7/F	MBR	106
	1/F – 7/F	LIV	107
	1/F – 7/F	BR	108
	1/F – 7/F	LIV	109
	1/F – 7/F	BR	110
Tower 1	1/F – 7/F	MBR	111
	1/F – 6/F	MBR	112
	1/F – 7/F	LIV	113
	1/F – 7/F	BR	114
	1/F – 7/F	LIV	115
	1/F – 10/F	BR	116
	1/F - 8/F	BR	117
	1/F - 8/F	MBR	118
	1/F -17/F	MBR	210
	1/F - 6/F	MBR	211
	1/F – 4/F	LIV	212
	1/F - 5/F	LIV	213
	1/F – 18/F	MBR	214
	1/F – 23/F	MBR	215
	1/F – 23/F	BR	216
	1/F – 23/F	LIV	217
Tower 2	1/F – 23/F	LIV	218
	1/F – 23/F	BR	219
	1/F – 23/F	MBR	220
	1/F – 23/F	MBR	221
	1/F – 23/F	BR	222
	1/F – 23/F	LIV	223
	1/F – 23/F	LIV	224
	1/F – 23/F	BR	225
	1/F – 23/F	MBR	226
	1/F	LIV	629
Tower 6	1/F	BR	630
Tower 6	1/F	MBR	631
	1/F	LIV	632

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	1/F – 2/F	BR	633
	1/F – 2/F	LIV	634
	1/F – 4/F	BR	716
	1/F – 2/F	MBR	720
Tower 7	1/F – 6/F	BR	721
	1/F – 6/F	MBR	722
	1/F – 3/F	LIV	723