Appendix 3

Environmental Noise Impact Assessment

Report No: 22580-N2

PROPOSED EXHIBITION OR CONVENTION HALL WITHIN THE PERMITTED IN-SITU CONVERSION OF EXISTING HOTEL INTO RESIDENTIAL DEVELOPMENT CUM SHOP AND SERVICES / EATING PLACE IN "RESIDENTIAL (GROUP A) 12", NO. 29 ON CHUN STREET, MA ON SHAN (SHA TIN TOWN LOT NO. 461)

ENVIRONMENTAL NOISE IMPACT ASSESSMENT REPORT

Prepared by:

Westwood Hong & Associates Ltd
2404, Tung Wai Commercial Building
109-111, Gloucester Road
Wanchai, Hong Kong
Tel: 2838 2738
Fax: 2591 6189
E-mail: wha@wha.com.hk

Dr Westwood Hong	EurIng, PhD, ACGI, CEng, RPE, FIOA, FIMechE, FCIBSE, FHKIE, FHKIEIA, FHKIOA, FMOIA, FHKIQEP
Ir K K Iu	FHKIOA, MIOA, MCIBSE, MHKIE, MASA, APEC Engineer FMOIA, MIEAust, MHKIQEP, C Eng, RPE, CPEng
Ms Kit Wong	BEng, MHKIEIA
Mr Samuel Lee	BSc

JUNE 2025

WHA

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AIMS

To assess noise impacts on the proposed development at Sha Tin Town Lot No. 461, Ma On Shan, Shatin.

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 noise compliance rate would be 89%, with predicted maximum road traffic noise level of 73dB(A), 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 (i.e. 100%) will comply with the 70dB(A) noise criterion.

Site surveys have been conducted to investigate the fixed noise sources in the vicinity of the proposed Development. Adverse noise impact on the proposed Development due to fixed noise sources is not anticipated.

1. INTRODUCTION

1.1 Westwood Hong & Associates Ltd (WHA) was commissioned to conduct an environmental noise impact assessment for the proposed Development at Sha Tin Town Lot No. 461, Ma On Shan (the "proposed Development"). Figure 1 shows the location of the proposed Development.

1.2 This environmental noise impact assessment report supports the Section 16 Planning Application for the proposed Development.

1.3 This report has been prepared based on the architectural drawings provided by the Client (Appendix 1).

1.4 The development will provide 772 nos. of residential flats.

1.5 This report presents assessments of the following:

- 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 project site is located at No. 29 On Chun Street, Ma On Shan and fronts onto Tolo Harbour. It is bounded by On Chun Street to its southeast, a sitting-out area to its northeast, Ma On Shan promenade to its northwest and a temporary open-air carpark to its southwest (Figure 1).

Building Layout

2.2 The project site is currently occupied by the 18-storey Ma On Shan Horizon Suites Hotel. The architectural drawings are provided in Appendix 1.

2.3 The commercial area at L1/F, M/F and L2/F will 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 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.

Noise Criteria for Fixed Noise Sources

3.2 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.

3.3 The project site is located in a neighbourhood with a few high-rise residential developments and schools. Therefore, the proposed Development is identified as "area other than those above" and not being affected by any Influencing Factor (IF) (e.g. industrial area or major road). With reference to the IND – TM, an Area Sensitivity Rating (ASR) of "B" was assumed for the proposed Development.

Table 3.1 ANLs for Day, Evening and Night Time Periods

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

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.

3.4 The assessment criteria for fixed noise sources for the proposed Development should refer to the ANLs in Table 3.1.

3.5 As mentioned in Section 3.2, 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 on 20 June 2025, the prevailing background noise levels are summarised in Table 3.2 below. The measurement locations are provided in Figure 2.

Table 3.2 Noise Measurement Results

Location	**Noise Sensitive Receiver**	**Measurement Results,** dB(A), L90 (1 hour)
Loc 1	Po Leung Kuk Riverain Primary School	Daytime: 60 – 61 Night-time: 51 – 52 (Façade)

3.6 The prevailing background noise levels of the identified noise sensitive receivers were higher than ANL – 5dB(A). Therefore, the ANL – 5dB(A) are used as the criteria for noise from planned fixed sources (i.e. 60dB(A) for daytime, and 50dB(A) for night-time).

4. SITE INSPECTION

Site Survey

4.1 Site surveys were conducted on 20 June 2025, 4 December and 10 September 2024. Photographs taken on site are given in Appendix 2.

Observations on site

4.2 Road traffic noise from the On Chun Street was identified as the dominant noise source affecting the proposed Development.

Fixed Noise Sources in the Vicinity

4.3 Site surveys have been conducted within 300m assessment area of the project site. The photos taken on site are provided in Appendix 2. In the vicinity of the project site, there are mainly residential developments (e.g. Marbella, The Waterside, Fok On Garden, The Tolo Place and Kam Fung Court) and schools.

4.4 The identified potential fixed noise sources are summarised in Table 4.1 and illustrated in Figure 3.

Table 4.1 Identified Potential Fixed Noise Sources

Source ID	Industrial Site	Observation on site
A	Po Leung Kuk Riverain Primary School Substation	No industrial noise was observed
B	Hong Kong Taoist Association Shun Yeung Primary School Substation	No industrial noise was observed
C	Ma On Shan Sports Centre	No industrial noise was observed
D	Ma On Shan Swimming Pool	No industrial noise was observed
E	Exhaust Louvers at Podium Level of Mabella Mall	No industrial noise was observed
F	Short-Term Tenancy (STT) Carpark	No industrial noise was observed

4.5 Site surveys revealed that there were no significant noise was emitted from the these potential fixed noise sources. Hence, adverse noise impacts from these potential fixed noise sources to the proposed Development are not anticipated.

5. ROAD TRAFFIC NOISE IMPACT ASSESSMENT

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

Traffic Forecast

5.2 The occupation year of the proposed Development is 2028, the maximum traffic in 15 years after occupation of the proposed Development (i.e. 2043) has been adopted for the purpose of the road traffic noise assessment.

5.3 The traffic forecast for Year 2043 was provided by the Traffic Consultant (LLA Consultancy Limited), which given in Appendix 3. 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 for the main roads adopted in the noise prediction models are shown in Figure 4.

Noise Assessment Points for Road Traffic Noise Assessment

5.4 Representative assessment points are assigned to the ventilation openings to rooms of noise sensitive use (e.g. living and dining rooms, bedrooms / master bedrooms), which have line of sight to the roads. The location of assessment points are illustrated in Figure A4 of Appendix 4. The commercial area 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 have been predicted based on the predicted traffic flows in Year 2043 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. In this assessment, all roads are assumed to be of impervious surface.

Predicted Road Traffic Noise Levels (Base Scenario)

5.8 The predicted road traffic noise levels are presented in Appendix 4 for the representative Noise Sensitive Receivers (NSRs) of the proposed Development. The predicted maximum road traffic noise level of the residential flats will be 73dB(A), exceeding the stipulated 70dB(A) noise criterion. Therefore, noise mitigation measures are required.

Predicted Road Traffic Noise Levels (With Noise Mitigation Measures)

5.9 In order to achieve noise compliance, all residential units with noise exceedance (i.e. 82 residential units) will be provided with Acoustic Window (baffle type) (Figure 5). The Acoustic Window (baffle type) will be designed by making reference to ProPECC PN5/23. For conservatism, only 3dB(A) noise reduction is assumed in the assessment. With the provision of these noise mitigation measures, all residential flats of the proposed Development can comply with the stipulated 70dB(A) noise limit. Details of the predicted noise levels are given in Appendix 5.

6. NOISE MITIGATION MEASURES

6.1 The Schedule of Noise Mitigation Measures to summarise all the mitigation measures in the proposed Development is provided in Appendix 7.

Acoustic Window (Baffle Type)

6.2 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.

6.3 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" (Appendix 6).

6.4 The locations of acoustic window are illustrated in Figure 5. The project architect confirmed that the design of acoustic window (baffle type) could meet the natural ventilation requirement under Buildings Department.

7. NOISE IMPACT ASSESSMENT OF FIXED NOISE SOURCES

Identified fixed noise source affecting the Proposed Development

7.1 Site surveys revealed that there were no identified fixed noise sources will have significant noise impact affecting the project site. Therefore, adverse noise impact due to fixed noise sources is not anticipated.

Fixed Noise Sources in the Proposed Development

7.2 The noise emissions from any planned fixed noise sources associated with the proposed Development would be designed to meet the relevant criteria stipulated in the HKPSG (i.e. ANL – 5dB(A) as mentioned in Section 3).

7.3 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.

7.4 The location of the fixed noise sources in the proposed Development and the required noise mitigation measures will be reviewed in the detailed design stage.

8. CONSTRUCTION NOISE IMPACT

8.1 The major construction activities of the project site are Alterations and Additional works (A&A works), only small amounts of Powered Mechanical Equipment (PME) will be used. Given that the details of the construction programme and plant inventory are not available at this stage, a qualitative assessment was then conducted.

8.2 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

8.3 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; and
- Alternative use of plant items within one worksite, wherever practicable.

8.4 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.

9. CONCLUSION

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

9.2 An assessment has been conducted to predict the road traffic noise impacts on the proposed Development. The prediction of road traffic noise was carried out based on the traffic forecast for Year 2043. For the Base Scenario (without any noise mitigation measures), the predicted maximum road traffic noise level of the residential flats will be 73dB(A), which exceeds the 70dB(A) noise criterion. Therefore, noise mitigation measures are required.

9.3 With the provision of noise mitigation measure of acoustic window (baffle type), the assessment results indicate that the predicted road traffic noise levels at all the residential flats (i.e. 100%) will comply with the 70dB(A) noise criterion.

9.4 Site surveys have been conducted to investigate the fixed noise sources in the vicinity of the proposed Development, no significant fixed noise source was identified. The proposed Development would not be affected by the fixed noise sources.

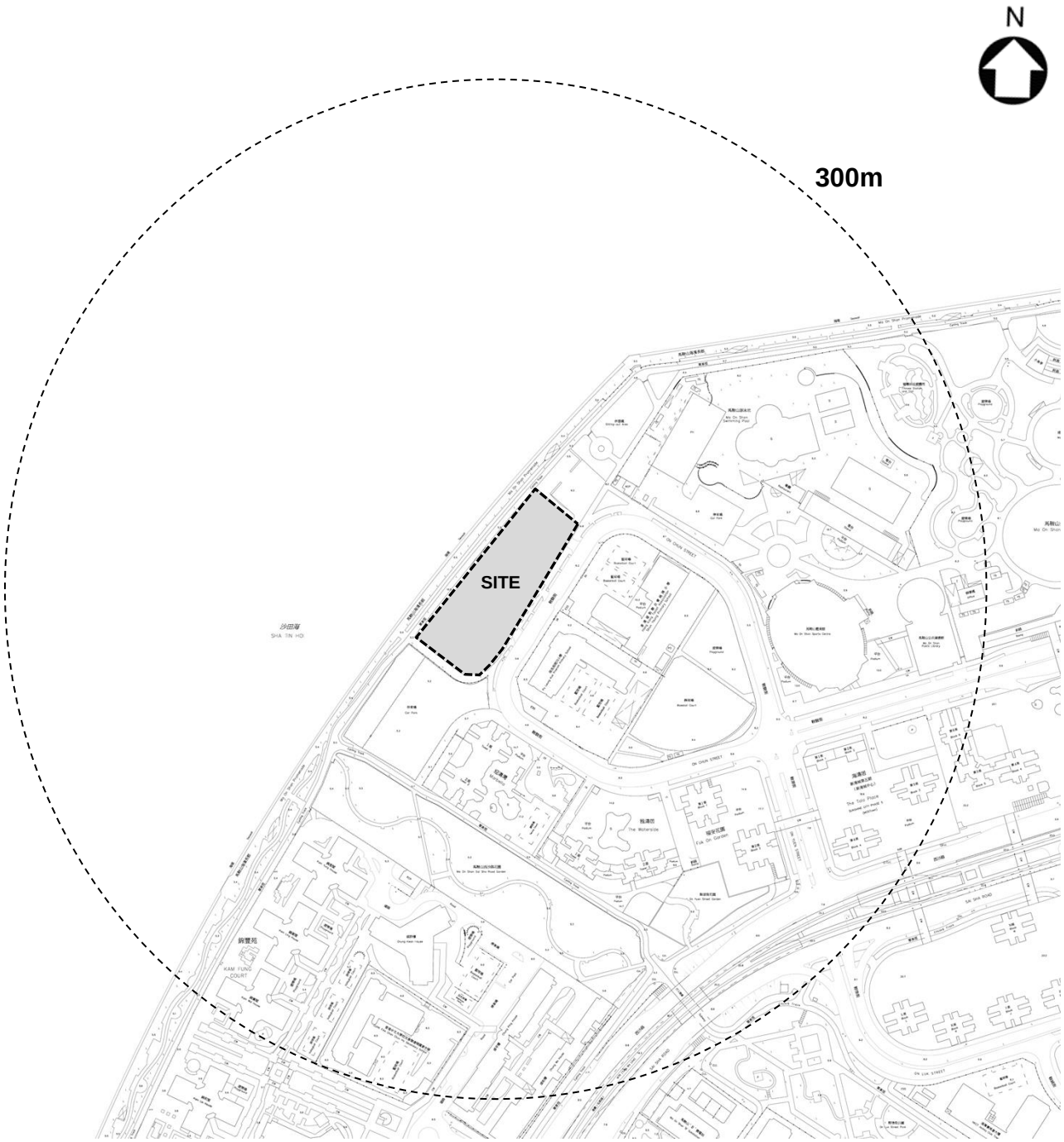
10. REFERENCES

[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.

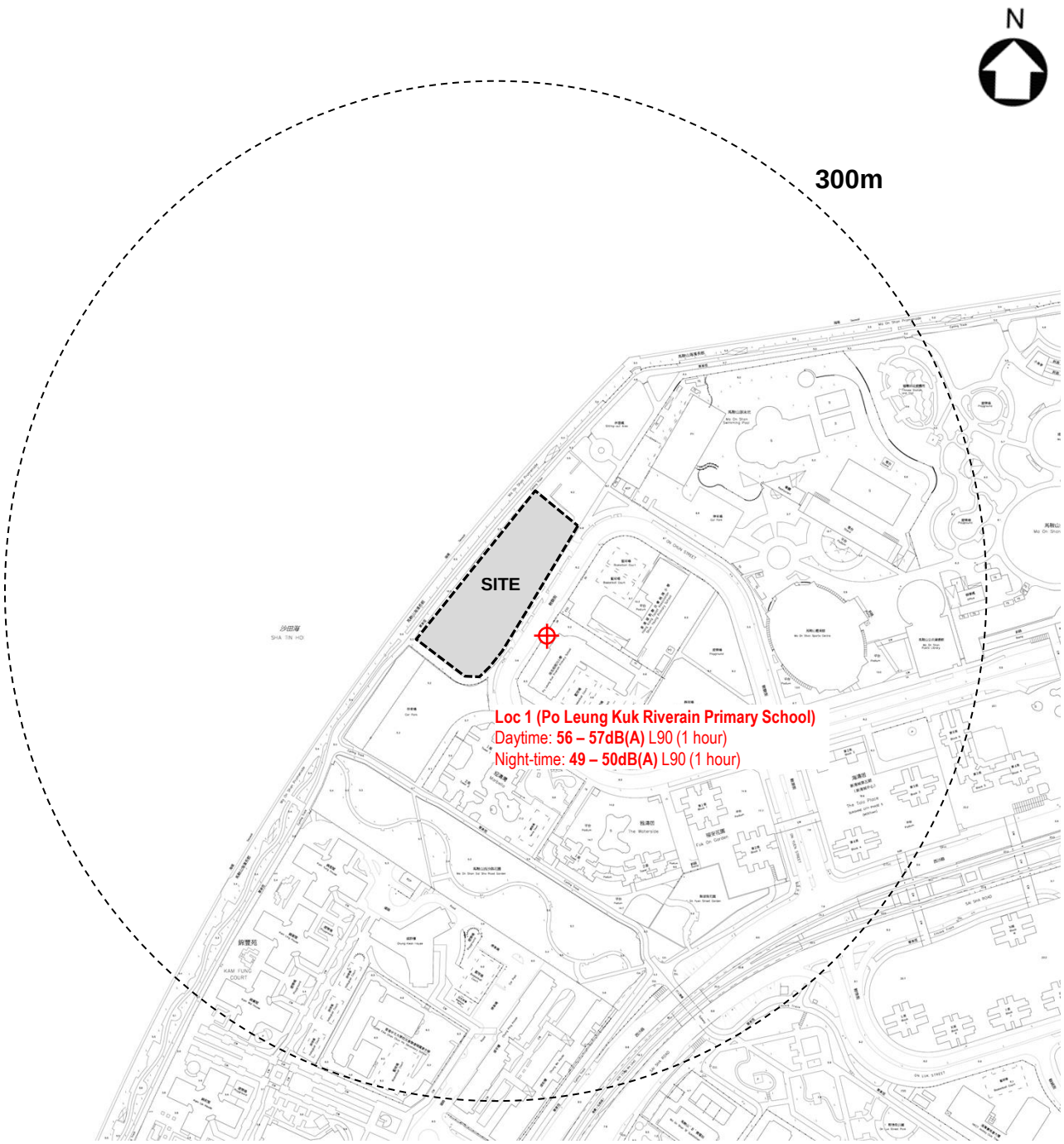
[4] "Calculation of Road Traffic Noise" of the Department of Transport, Welsh Office, UK.



Legend

Proposed Development

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22580	**Site Location**	**1**
Proposed Development at Sha Tin Town Lot No. 461, Ma On Shan, Shatin		



Legend

Proposed Development

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22580	**Background Measurement Location**	**2**
Proposed Development at Sha Tin Town Lot No. 461, Ma On Shan, Shatin		

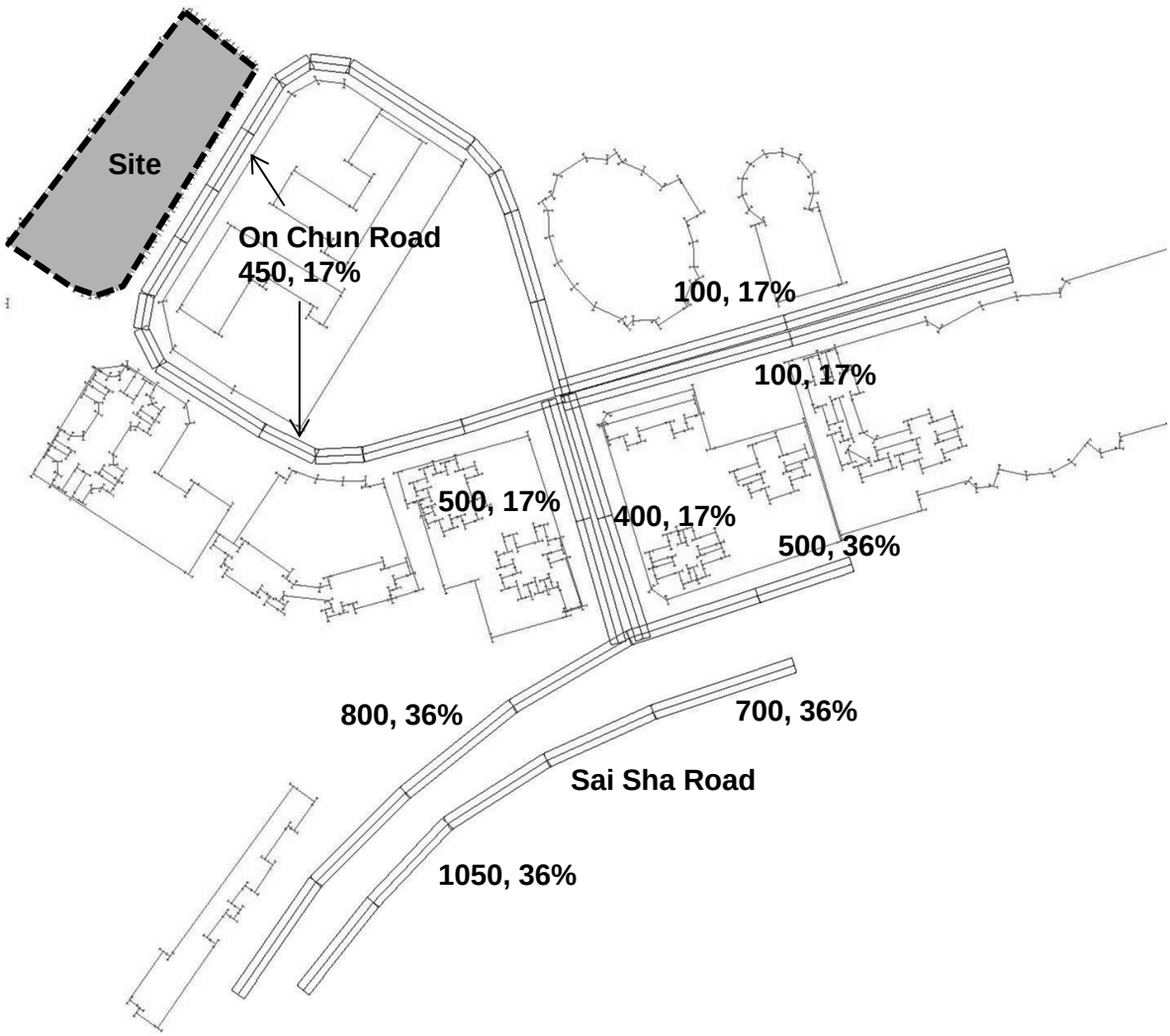
Source ID	Name	Fixed Noise Sources
A	Po Leung Kuk Riverain Primary School Substation	No industrial noise observed
B	Hong Kong Taoist Association Shun Yeung Primary School Substation	No industrial noise observed
C	Ma On Shan Sports Centre	No industrial noise observed
D	Ma On Shan Swimming Pool	No industrial noise observed
E	Exhaust Louvers at Mabella Mall Podium Level	No industrial noise observed
F	Short-Term Tenancy (STT) Carpark	No industrial noise observed

Legend

Proposed Development

Identified Fixed Noise Sources

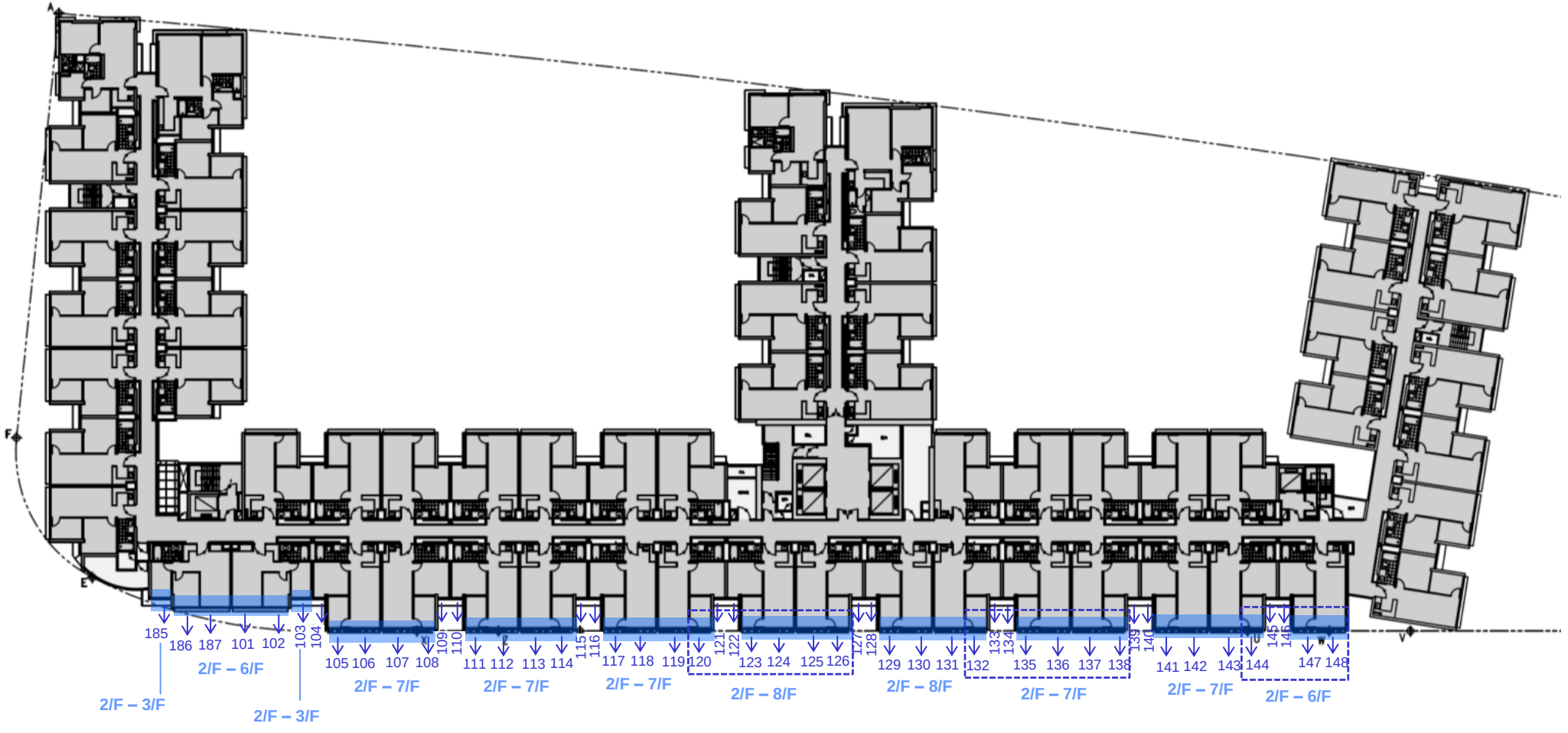
Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22580	**Identified Fixed Noise Sources**	**3**
Proposed Development at Sha Tin Town Lot No. 461, Ma On Shan, Shatin		



Legend

800, 36% - 800 vehicles per hour, 36% heavy goods vehicles

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22580 **Proposed Development at Sha Tin Town Lot No. 461, Ma On Shan, Shatin**	**Computer Plot of Road Scheme** (with yr. 2043 traffic forecast, AM Peak)	**4**



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Acoustic Window (Baffle type)

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22580 **Proposed Development at Sha Tin Town Lot No. 461, Ma On Shan, Shatin**	**Noise Mitigation Measures**	**5**

APPENDIX 1

ARCHITECTURLA DRAWINGS

CARPARK SCHEDULE:

RESIDENTIAL C/P	:148 Nos.
RESIDENTIAL VISITOR	: 5 Nos.
COMMERCIAL C/P	: 21 Nos
EXHIBITION/CONVENTION HALL C/P	: 7 Nos.
TOTAL	:181 Nos
Motorcycle	: 12 Nos
Bicycle	:120 Nos

No.29 On Chun Street, Ma On Shan (STTL 461)

S16 Planning Application

PROPOSED SCHEME

BASEMENT FLOOR

Scale : 1:500

Application Site Boundary

Residential

Commercial

Exhibition / Convention Hall

Covered Carpark & Driveway

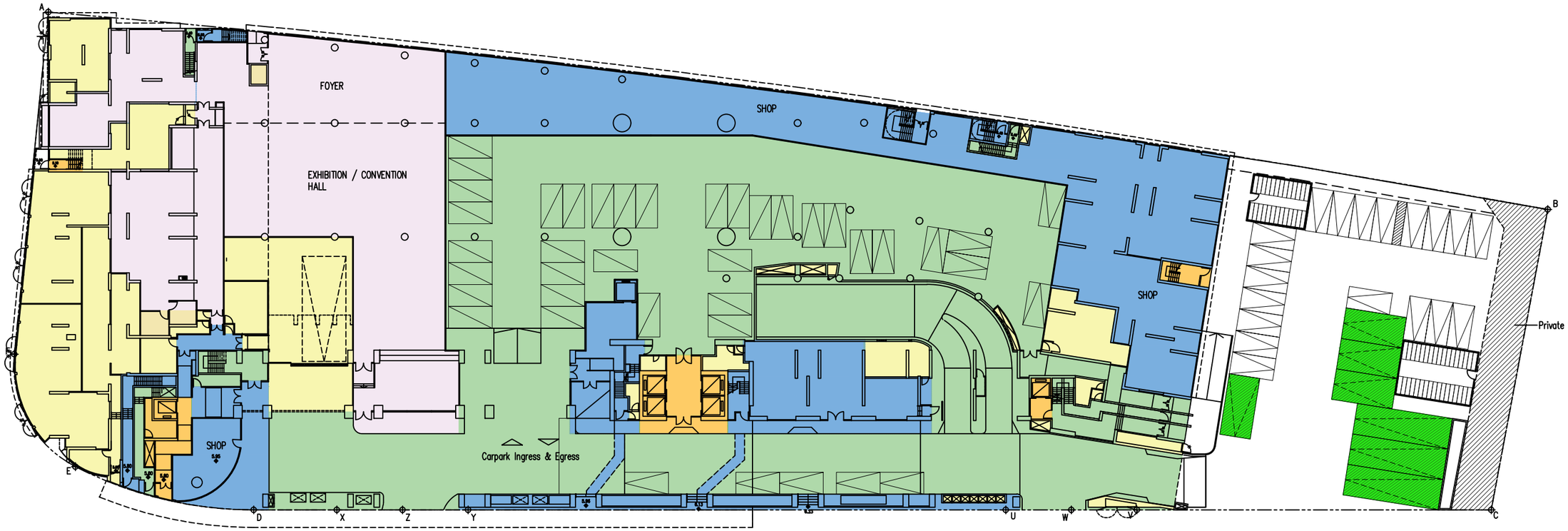
E&M

Double Decked Mechanical Car Parking

Car Parking Space

Double Decked Bicycle Parking

Loading / Unloading Bay



No.29 On Chun Street, Ma On Shan (STTL 461)
S16 Planning Application

PROPOSED SCHEME

L1 FLOOR
Scale : 1:500

Application Site Boundary

Residential

Commercial

E&M

No.29 On Chun Street, Ma On Shan (STTL 461)

S16 Planning Application

PROPOSED SCHEME

MEZZ FLOOR

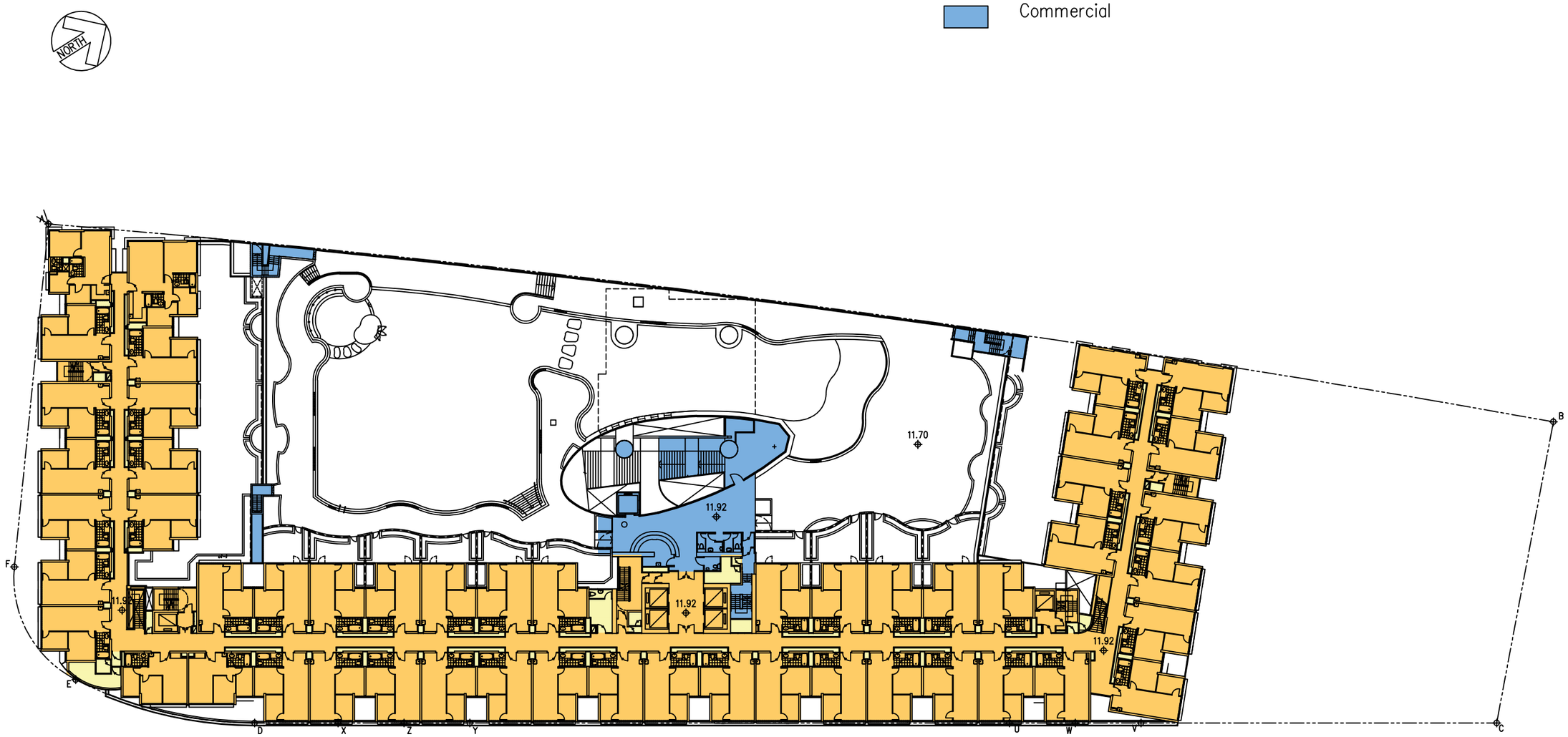
Scale : 1:500

Application Site Boundary

Residential

Commercial

E&M



No.29 On Chun Street, Ma On Shan (STTL 461)

S16 Planning Application

PROPOSED SCHEME

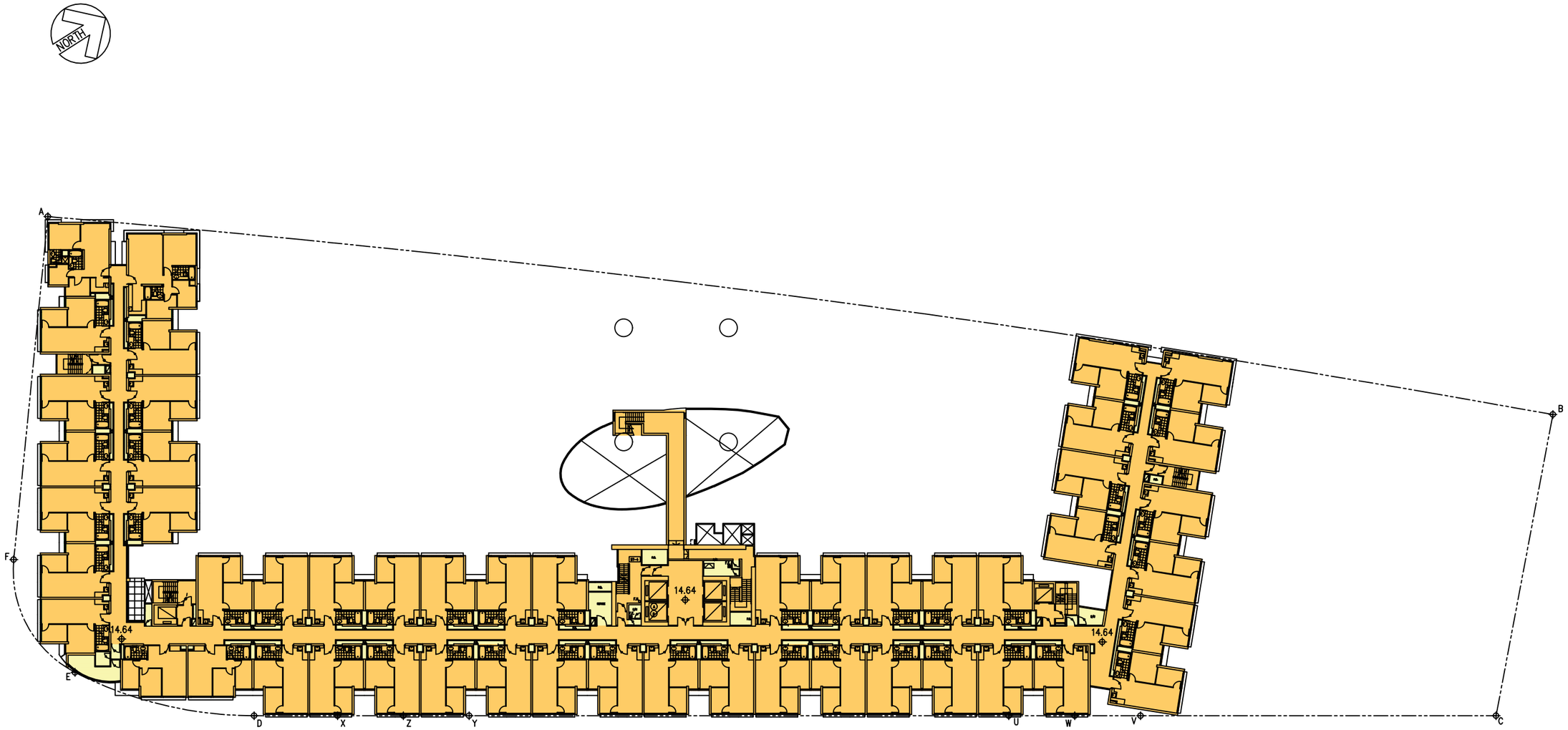
L2 FLOOR

Scale : 1:500

Application Site Boundary

Residential

E&M



No.29 On Chun Street, Ma On Shan (STTL 461)

S16 Planning Application

PROPOSED SCHEME

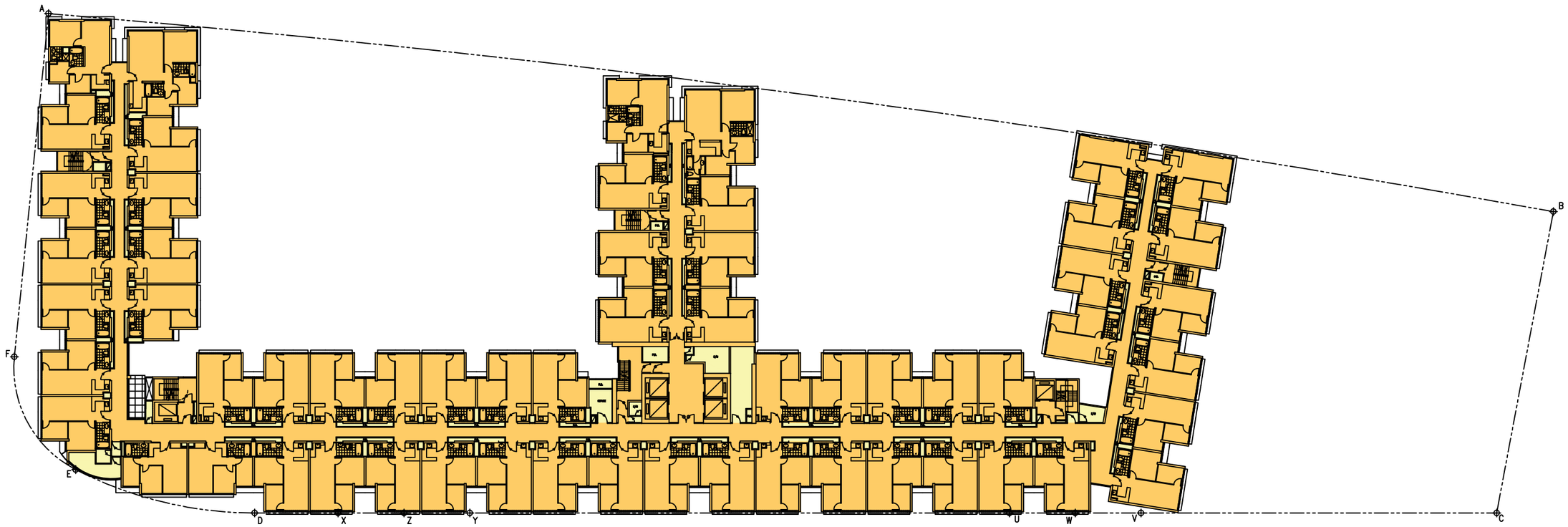
L3 FLOOR

Scale : 1:500

Application Site Boundary

Residential

E&M



No.29 On Chun Street, Ma On Shan (STTL 461)

S16 Planning Application

PROPOSED SCHEME

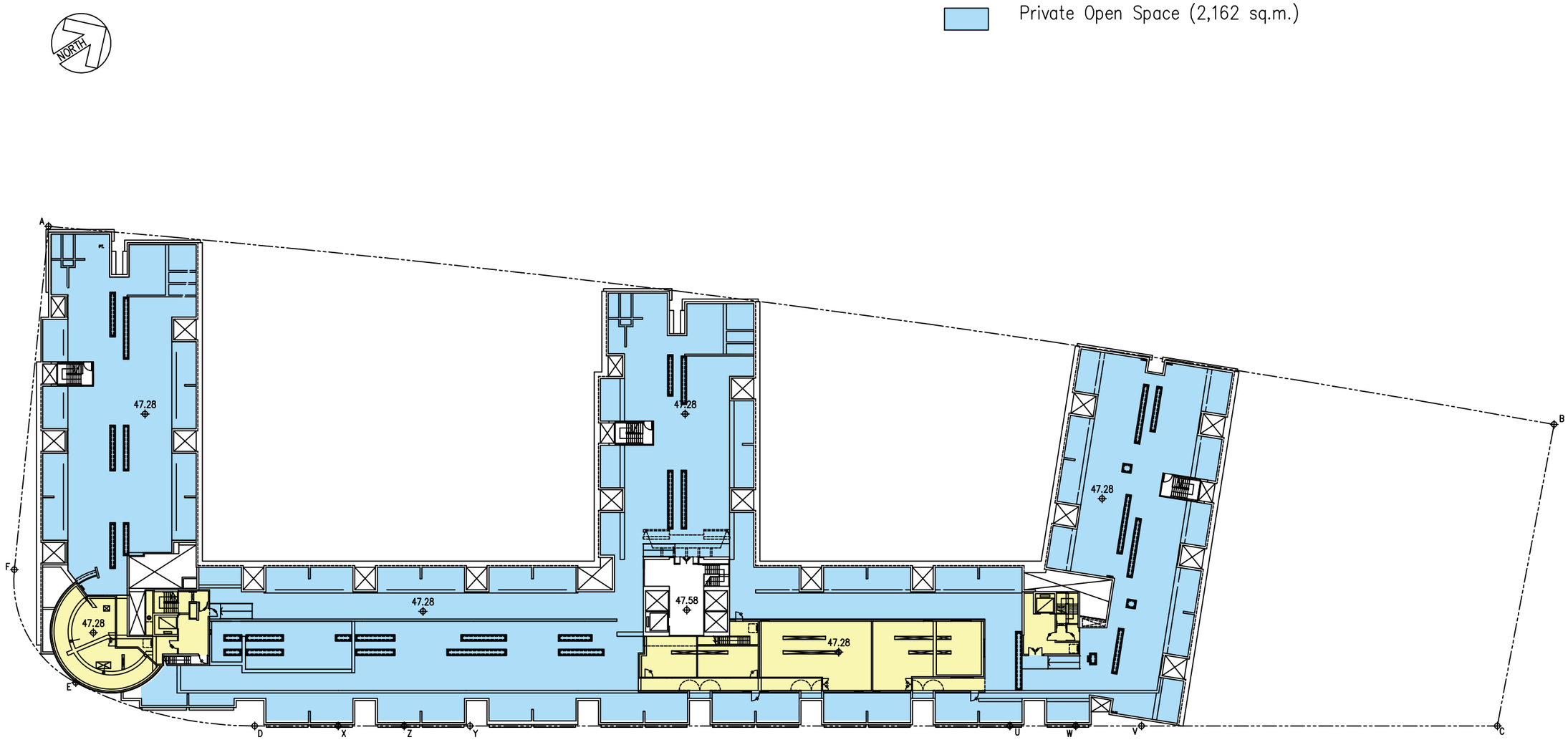
TYPICAL FLOOR (L5~L17)

Scale : 1:500

Application Site Boundary

E&M

Private Open Space (2,162 sq.m.)



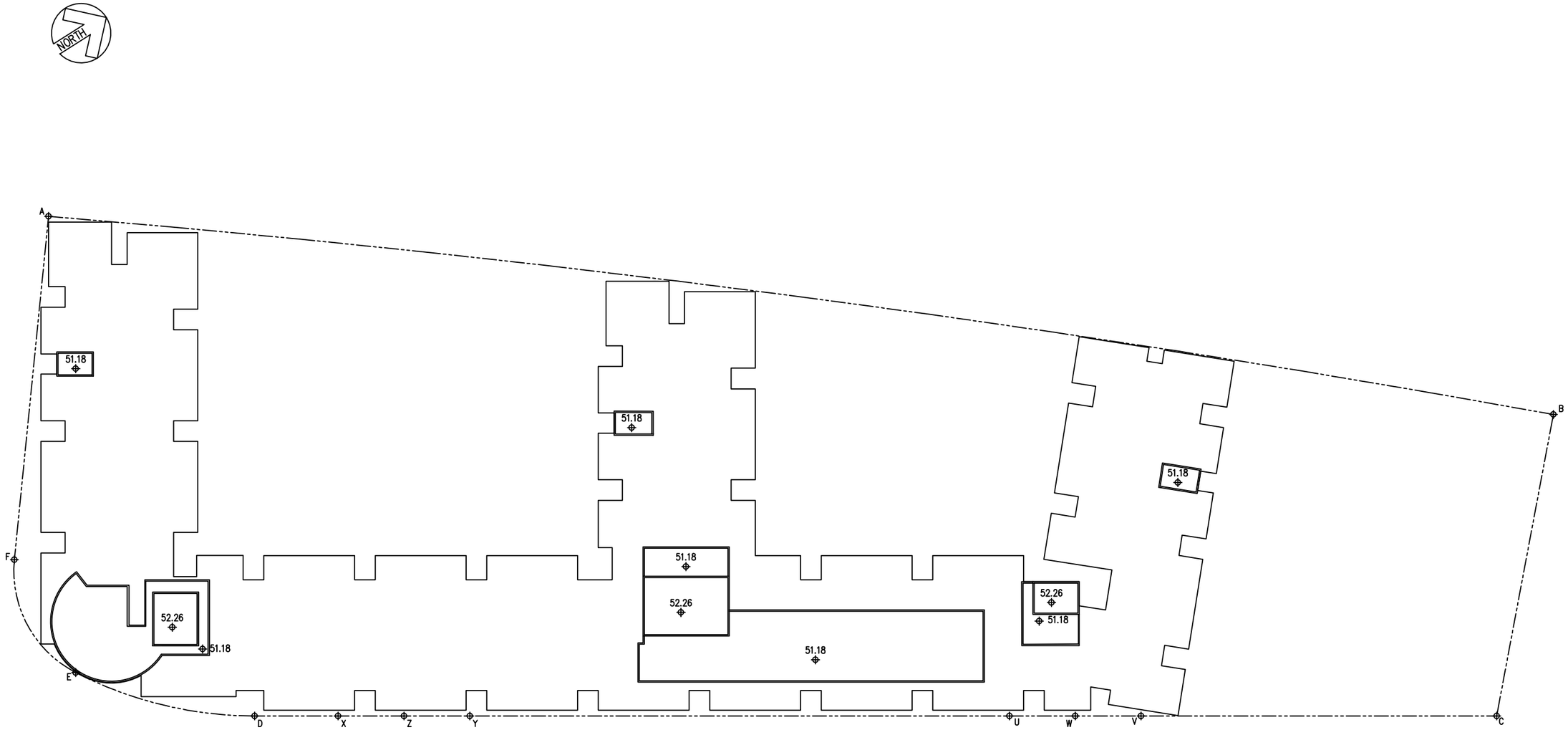
No.29 On Chun Street, Ma On Shan (STTL 461)

S16 Planning Application

PROPOSED SCHEME

ROOF FLOOR

Scale : 1:500



No.29 On Chun Street, Ma On Shan (STTL 461)

S16 Planning Application

PROPOSED SCHEME

TOP ROOF FLOOR

Scale : 1:500

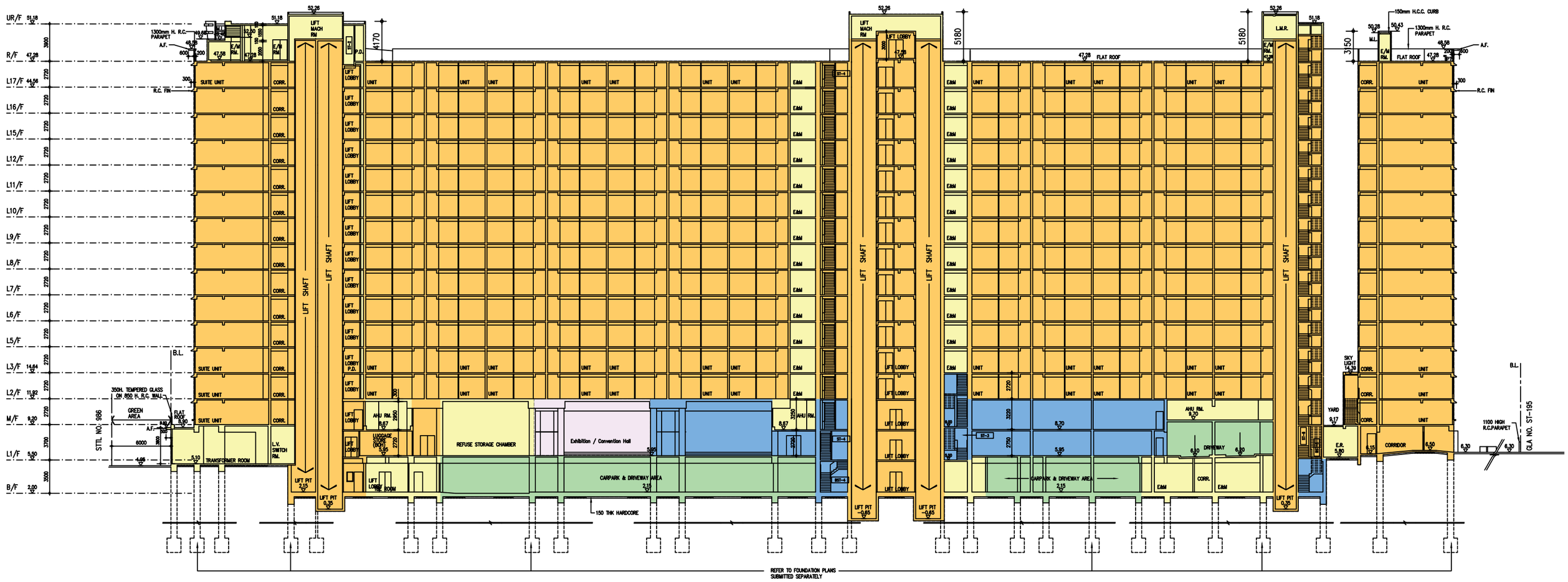
Residential GFA

Commercial GFA

Carpark & Driveway Area

Exhibition / Convention Hall

E&M Area



No.29 On Chun Street, Ma On Shan (STTL 461)

S16 Planning Application

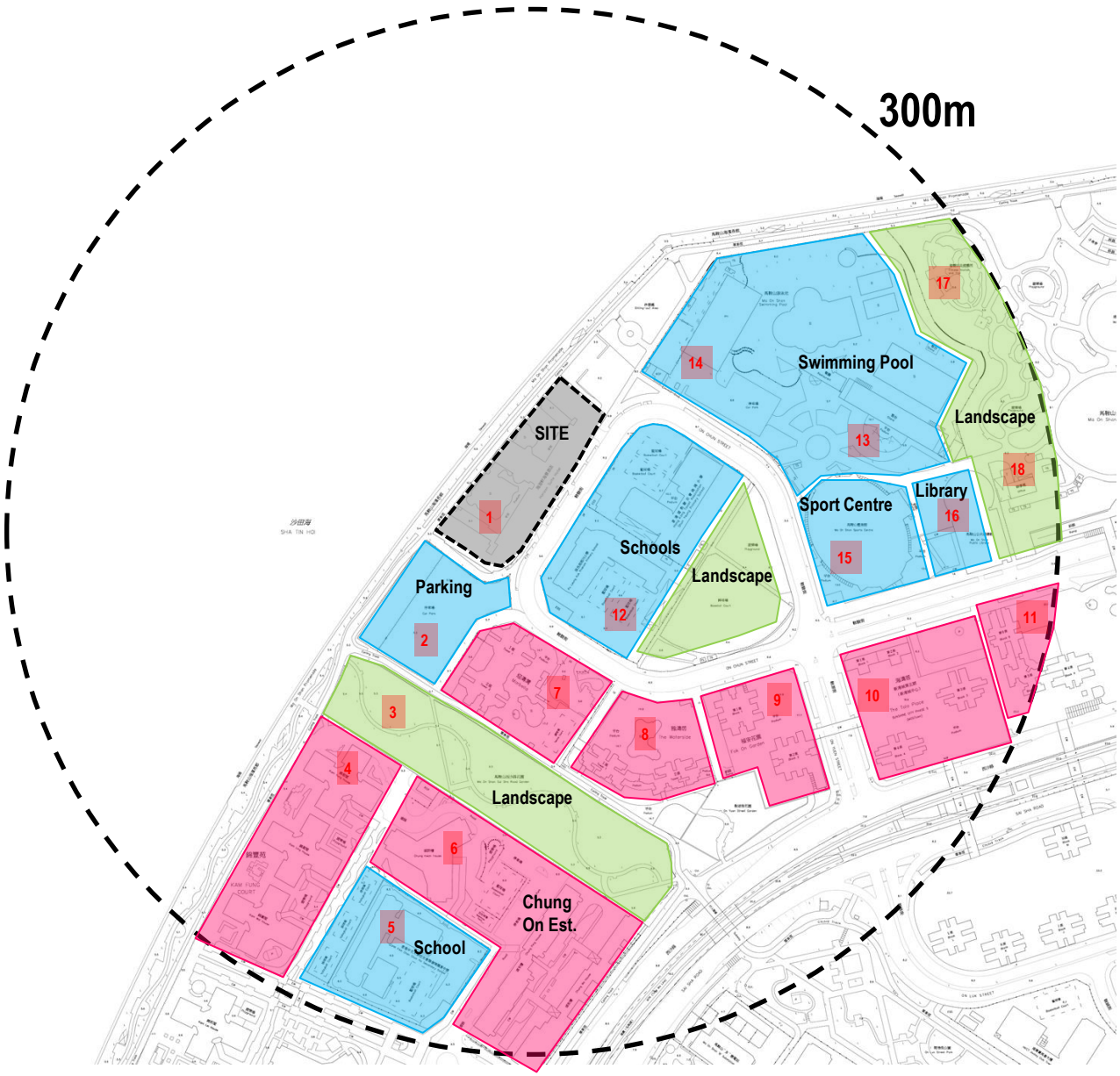
PROPOSED SCHEME

SECTION

Scale : 1:500

APPENDIX 2

PHOTOGRAPHS TAKEN ON SITE



Legend

- The Proposed Development
- Landscape
- Residential Developments
- Other Uses without noise emission (e.g. Schools, Library, Swimming Pool, Sport Centre)
- 5 Plate no. 5

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22580 **Proposed Development at Sha Tin Town Lot No. 461, Ma On Shan, Shatin**	**Land Uses in 300m Study Area**	**A2-1a**

Plate 1: The Project Site

Plate 2: Carpark

Plate 3: Landscape Area

Plate 4: Kam Fung Court

Plate 5: Chan Chun Ha Sec. School

Plate 6: Chung On Estate

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22580 **Proposed Development at Sha Tin Town Lot No. 461, Ma On Shan, Shatin**	**Photos Taken On Site (Plates 1 to 6)**	**A2-1b**

Plate 7: Marbella

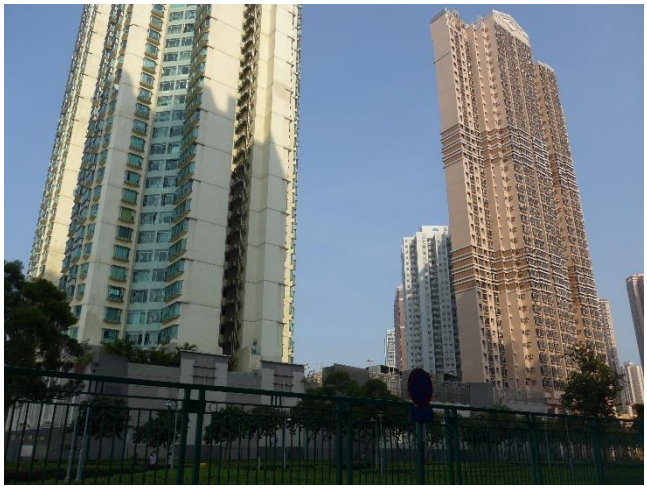


Plate 8: The Waterside

Plate 9: Fuk On Garden

Plate 10: The Tolo Place

Plate 11: Bayshore Towers

Plate 12: PLK Riverain Primary School

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22580 **Proposed Development at Sha Tin Town Lot No. 461, Ma On Shan, Shatin**	**Photos Taken On Site (Plates 7 to 12)**	**A2-1c**

Plate 13: MOS Swimming Pool

Plate 14: MOS Swimming Pool

Plate 15: MOS Sport Centre

Plate 16: MOS Library

Plate 17: MOS Park

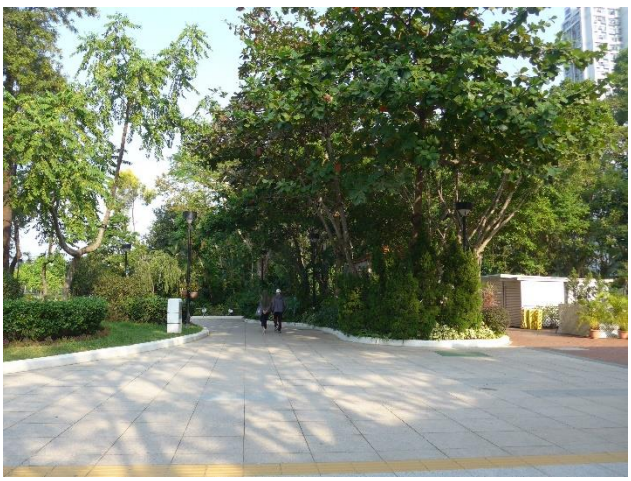


Plate 18: MOS Park

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22580 **Proposed Development at Sha Tin Town Lot No. 461, Ma On Shan, Shatin**	**Photos Taken On Site (Plates 13 to 18)**	**A2-1d**

APPENDIX 3

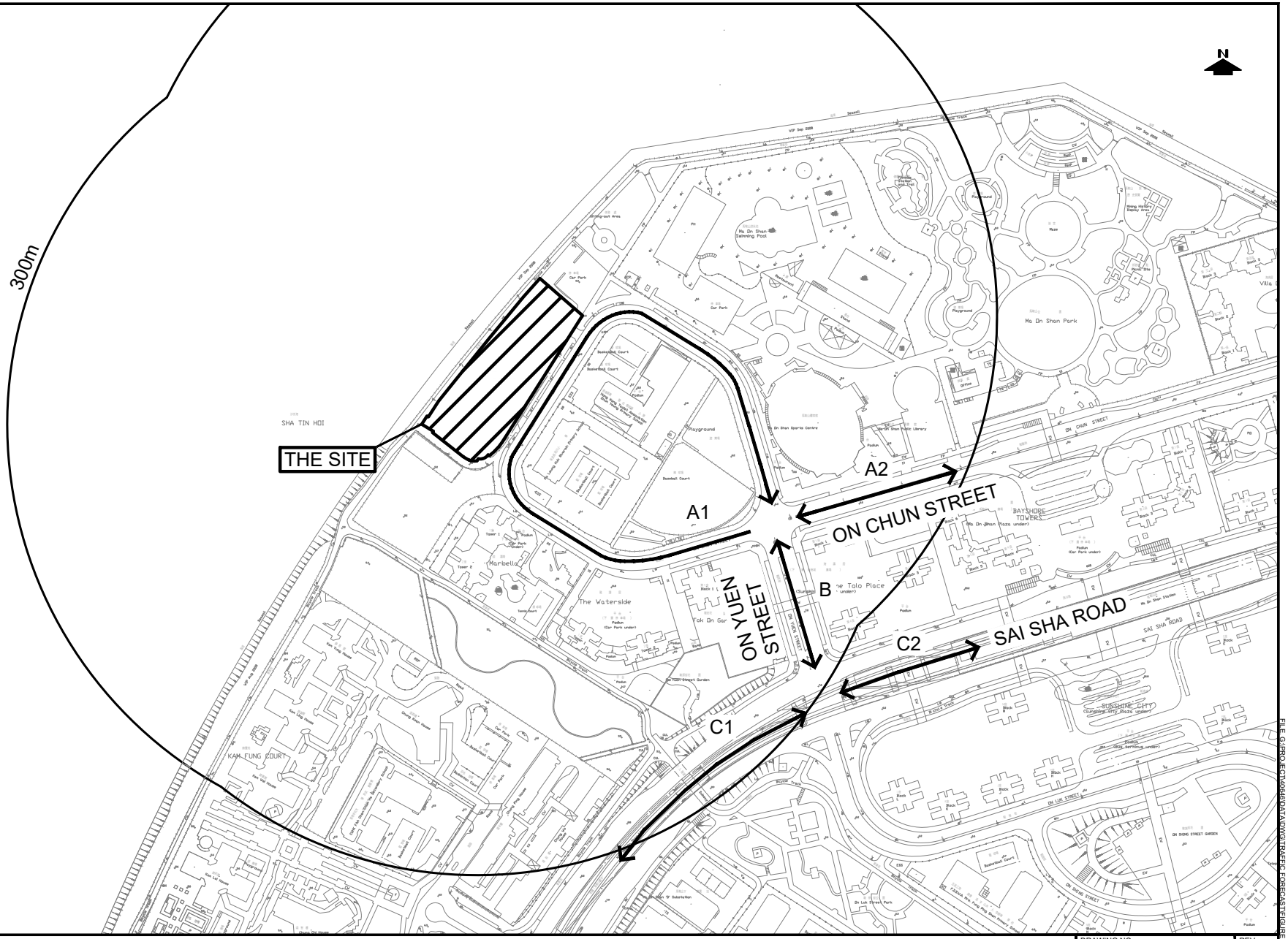
TRAFFIC FORECAST FOR YEAR 2043
(provided by LLA CONSULTANCY LTD)

Proposed Residential Development at Sha Tin Town Lot. 461, Ma On Shan, New Territories

2043 Traffic Forecast for Noise Impact Assessment

Ref.[1]	Road	Bound	AM Peak	
			Traffic Flows (veh/hr) [2]	% of Heavy Vehicle [3]
A1	On Chun Street	WB	450	17%
A2	On Chun Street	EB	100	17%
		WB	100	17%
B	On Yuen Street	NB	500	17%
		SB	400	17%
C1	Sai Sha Road	EB	800	36%
		WB	1050	36%
C2	Sai Sha Road	EB	500	36%
		WB	700	36%

Note: (1) Refer to **Figure 1**
(2) All Traffic flows are rounded up to the nearest 50.
(3) PCU factor based on existing vehicle mix is adopted to convert BDTM traffic flows from pcu/hr to veh/hr.



LEGEND:

- THE SITE
- ROAD SECTION

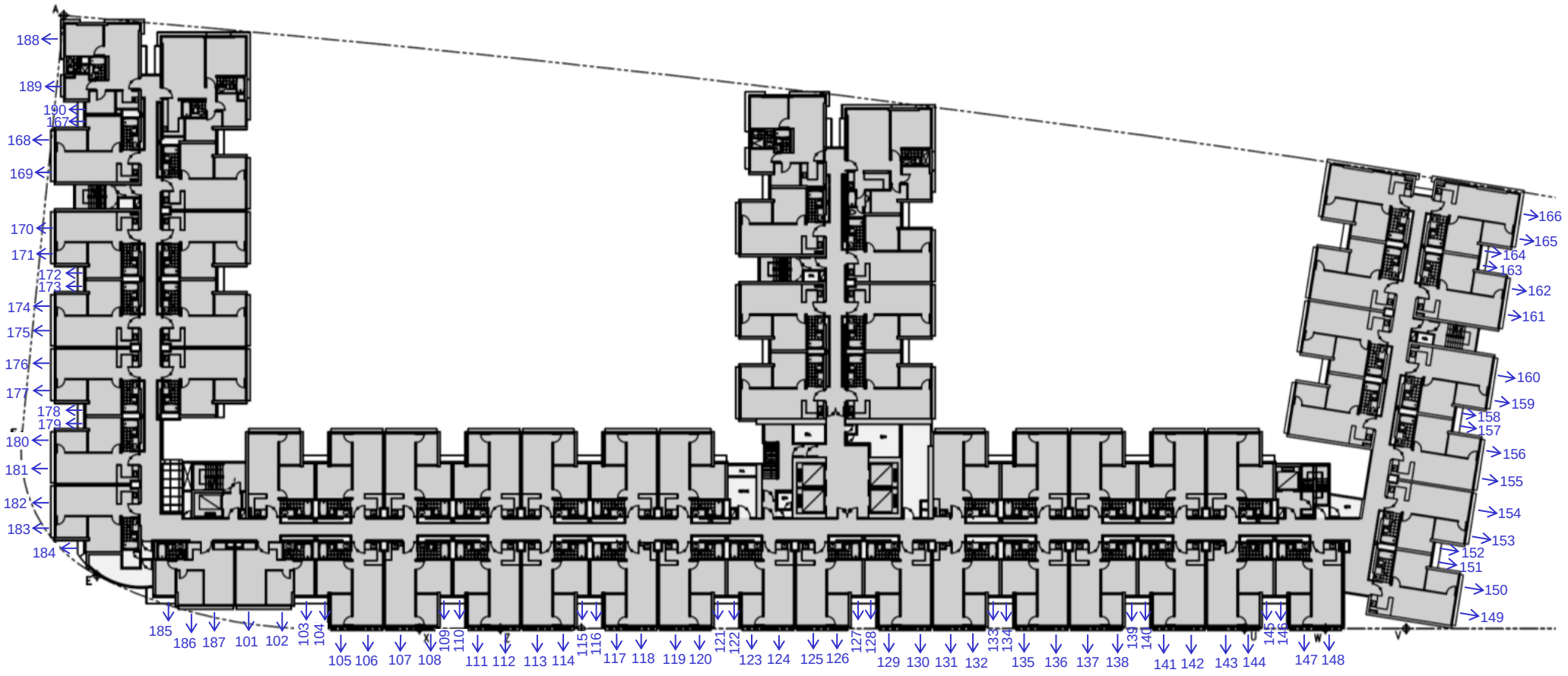
PROJECT NO. 40646	PROJECT TITLE: PROPOSED RESIDENTIAL DEVELOPMENT AT SHA TIN TOWN LOT. 461, MA ON SHAN, NEW TERRITORIES	DRAWING NO. **FIGURE 1**	REV. ·
DESIGNED SLN / DATE NOV 2019	DRAWING TITLE: **ROAD SECTIONS**	LLA 顧問有限公司 Consultancy Limited	
DRAWN CLL / SCALE 1:4000			
CHECKED SLN			

FILE: G:\PROJECT\40646\DATA\DWG\TRAFFIC FORECAST\FIGURE 1.DWG PLOT SCALE : 1 = 1

FILE: G:\PROJECT\40646\DATA\DWG\TRAFFIC FORECAST\FIGURE 1.DWG PLOT SCALE : 1 = 1

APPENDIX 4

PREDICTED ROAD TRAFFIC NOISE LEVELS FOR ALL FLOORS
(BASE SCENARIO)



Remark:-

- **NSRs 101 – 148, 185 – 187 applicable to 2/F – 17/F only**

Westwood Hong & Associates Ltd

PROJECT: 22580

Proposed Development at Sha Tin Town Lot No. 461, Ma On Shan, Shatin

TITLE:

Location of Assessment Points

FIGURE

A4

Job No. : 22580
Job Title : MOS Hotel
Scenario: **Predicted Noise Levels, 2043 Taffic Forecast (Unmitigated)**

	Receiver																					
Level	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122
M/F																						
2/F	72.0	72.1	71.0	69.5	72.7	72.6	72.6	72.6	67.7	67.8	72.6	72.6	72.7	72.8	68.5	68.5	72.7	72.7	72.7	72.7	68.2	68.3
3/F	71.6	71.6	70.6	69.1	72.1	72.1	72.1	72.1	67.3	67.4	72.1	72.1	72.2	72.3	68.1	68.1	72.2	72.2	72.2	72.2	67.9	67.9
5/F	71.3	71.2	70.3	68.8	71.7	71.6	71.7	71.6	66.9	67.1	71.7	71.7	71.7	71.8	67.7	67.7	71.8	71.7	71.7	71.8	67.5	67.5
6/F	70.8	70.8	69.9	68.4	71.2	71.1	71.2	71.2	66.5	66.7	71.2	71.2	71.2	71.3	67.3	67.3	71.3	71.2	71.3	71.3	67.1	67.1
7/F	70.4	70.4	69.6	68.1	70.8	70.7	70.8	70.7	66.1	66.3	70.8	70.7	70.8	70.9	66.8	66.9	70.8	70.8	70.8	70.8	66.7	66.7
8/F	70.1	70.1	69.2	67.7	70.3	70.3	70.3	70.3	65.7	66.0	70.3	70.3	70.3	70.4	66.4	66.5	70.4	70.4	70.4	70.5	66.3	66.4
9/F	69.7	69.7	68.8	67.4	70.0	69.9	70.0	69.9	65.3	65.6	69.9	69.9	70.0	70.1	66.1	66.1	70.1	70.0	70.1	70.1	66.0	66.0
10/F	69.4	69.3	68.5	67.0	69.6	69.6	69.6	69.6	64.9	65.3	69.6	69.6	69.6	69.7	65.7	65.8	69.7	69.7	69.7	69.7	65.7	65.7
11/F	69.0	69.0	68.2	66.8	69.3	69.2	69.3	69.2	64.7	65.0	69.3	69.2	69.3	69.4	65.5	65.5	69.4	69.3	69.4	69.4	65.3	65.4
12/F	68.8	68.8	68.0	66.6	69.1	69.0	69.0	69.0	64.4	64.9	69.0	69.0	69.0	69.1	65.2	65.3	69.1	69.1	69.1	69.1	65.0	65.1
15/F	68.6	68.6	67.8	66.4	68.9	68.8	68.8	68.8	64.2	64.7	68.8	68.8	68.8	68.9	65.0	65.1	68.9	68.8	68.8	68.8	64.8	64.9
16/F	68.4	68.4	67.7	66.4	68.7	68.7	68.7	68.6	64.1	64.6	68.6	68.6	68.6	68.7	64.9	65.0	68.7	68.6	68.6	68.6	64.6	64.7
17/F	68.2	68.2	67.5	66.2	68.6	68.5	68.5	68.5	64.0	64.5	68.5	68.5	68.5	68.6	64.8	64.9	68.6	68.5	68.5	68.5	64.5	64.7

Job No. : 22580
Job Title : MOS Hotel
Scenario: **Predicted Noise Levels, 2043 Taffic Forecast (Unmitigated)**

Level	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144
M/F																						
2/F	72.7	72.7	72.6	72.7	67.7	68.0	72.7	72.6	72.6	72.6	67.6	67.5	72.5	72.6	72.5	72.4	67.5	67.5	72.3	72.2	72.2	72.1
3/F	72.3	72.3	72.3	72.3	67.4	67.6	72.3	72.2	72.2	72.1	67.2	67.2	72.1	72.1	72.0	72.0	67.2	67.2	71.8	71.8	71.8	71.7
5/F	71.8	71.8	71.8	71.8	67.1	67.2	71.8	71.8	71.8	71.7	66.8	66.8	71.6	71.6	71.5	71.5	66.8	66.8	71.4	71.4	71.3	71.3
6/F	71.3	71.4	71.3	71.3	66.7	66.9	71.3	71.3	71.3	71.3	66.5	66.5	71.1	71.1	71.0	71.0	66.5	66.4	70.9	70.9	70.9	70.9
7/F	70.9	70.9	70.9	70.9	66.3	66.5	70.9	70.9	70.8	70.8	66.2	66.1	70.8	70.8	70.7	70.7	66.1	66.0	70.6	70.6	70.5	70.4
8/F	70.5	70.5	70.5	70.5	65.9	66.1	70.5	70.5	70.5	70.4	65.8	65.8	70.3	70.3	70.2	70.2	65.8	65.6	70.1	70.2	70.1	70.1
9/F	70.1	70.1	70.1	70.1	65.6	65.7	70.2	70.1	70.0	70.0	65.4	65.4	70.0	70.0	69.9	69.9	65.5	65.3	69.8	69.8	69.8	69.7
10/F	69.8	69.8	69.8	69.8	65.3	65.5	69.8	69.8	69.7	69.7	65.1	65.0	69.6	69.6	69.5	69.5	65.1	64.9	69.4	69.4	69.4	69.3
11/F	69.4	69.5	69.5	69.5	64.9	65.1	69.5	69.4	69.4	69.4	64.8	64.8	69.4	69.4	69.3	69.3	64.8	64.6	69.2	69.2	69.1	69.1
12/F	69.2	69.2	69.1	69.2	64.7	64.9	69.2	69.2	69.1	69.1	64.5	64.5	69.0	69.0	68.9	68.9	64.6	64.4	68.8	68.8	68.8	68.7
15/F	68.9	68.9	68.9	68.9	64.4	64.6	68.9	68.9	68.8	68.8	64.2	64.3	68.8	68.8	68.7	68.7	64.3	64.2	68.6	68.6	68.5	68.5
16/F	68.7	68.7	68.7	68.7	64.2	64.5	68.7	68.6	68.6	68.6	64.0	64.1	68.6	68.6	68.5	68.5	64.1	64.0	68.4	68.4	68.3	68.3
17/F	68.6	68.6	68.5	68.5	64.1	64.4	68.5	68.5	68.5	68.4	63.9	64.1	68.4	68.4	68.3	68.3	64.0	63.9	68.2	68.2	68.1	68.1

Job No. : 22580
Job Title : MOS Hotel
Scenario: **Predicted Noise Levels, 2043 Taffic Forecast (Unmitigated)**

Level	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166
M/F					69.2	67.1	36.2	36.0	65.0	64.3	64.0	63.8	33.4	33.5	63.1	62.9	62.2	61.8	32.0	31.9	61.4	61.1
2/F	68.0	67.9	72.1	72.1	69.0	67.0	36.0	35.8	65.1	64.4	64.0	63.8	33.3	33.4	63.0	62.8	62.2	61.8	31.8	31.9	61.4	61.1
3/F	67.7	67.6	71.7	71.7	68.7	66.8	35.8	35.5	65.1	64.4	64.0	63.8	33.2	33.2	63.0	62.7	62.2	61.8	31.7	31.7	61.3	61.0
5/F	67.4	67.2	71.3	71.2	68.4	66.6	35.5	35.3	64.9	64.2	63.9	63.7	33.1	33.1	62.8	62.6	62.1	61.7	31.5	31.6	61.2	60.9
6/F	67.1	66.8	70.8	70.8	68.0	66.3	35.3	35.0	64.7	64.1	63.7	63.4	32.9	32.9	62.6	62.4	61.9	61.5	31.3	31.4	61.1	60.8
7/F	66.8	66.4	70.4	70.3	67.6	66.0	35.0	34.8	64.5	63.9	63.5	63.2	32.7	32.7	62.4	62.2	61.7	61.3	31.2	31.2	60.9	60.6
8/F	66.5	66.0	70.0	70.0	67.3	65.6	34.7	34.5	64.2	63.6	63.2	63.0	32.5	32.6	62.2	62.0	61.5	61.1	31.0	31.1	60.7	60.4
9/F	66.2	65.7	69.7	69.6	66.9	65.3	34.4	34.3	63.9	63.4	63.0	62.8	32.4	32.4	62.0	61.8	61.3	60.9	30.8	30.9	60.5	60.3
10/F	65.8	65.4	69.3	69.3	66.5	65.0	34.2	34.0	63.6	63.1	62.8	62.5	32.2	32.2	61.8	61.6	61.1	60.8	30.7	30.8	60.3	60.1
11/F	65.6	65.1	69.0	69.0	66.2	64.7	33.9	33.8	63.4	62.9	62.6	62.3	32.0	32.0	61.6	61.4	60.9	60.6	30.5	30.6	60.1	59.9
12/F	65.3	64.8	68.7	68.6	66.0	64.4	33.7	33.6	63.2	62.6	62.3	62.1	31.8	31.9	61.4	61.2	60.7	60.4	30.4	30.5	59.9	59.7
15/F	65.1	64.6	68.4	68.4	65.7	64.2	33.6	33.5	62.9	62.4	62.1	61.9	31.9	32.0	61.2	61.0	60.5	60.2	30.5	30.6	59.8	59.5
16/F	64.9	64.4	68.2	68.1	65.5	64.0	34.4	34.5	62.7	62.2	61.9	61.7	32.9	33.3	61.0	60.8	60.4	60.0	31.8	32.2	59.6	59.4
17/F	64.8	64.3	68.0	67.9	65.4	63.8	37.2	37.2	62.5	62.0	61.7	61.5	35.7	36.1	60.8	60.6	60.1	59.9	34.6	35.0	59.5	59.2

Level	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190
M/F	0.0	58.9	59.1	59.0	58.9	20.1	18.4	58.9	59.4	59.9	60.5	35.3	35.6	62.1	63.3	64.6	67.0	67.0				57.7	57.6	9.3
2/F	0.0	59.0	59.3	59.8	60.2	20.1	18.4	60.9	61.3	61.8	62.2	35.1	35.5	63.2	64.0	64.9	66.8	67.1	**71.1**	**71.7**	**71.9**	57.8	58.2	9.3
3/F	0.0	59.0	59.3	59.9	60.3	20.1	18.4	60.9	61.3	61.8	62.1	35.0	35.3	63.0	63.7	64.7	66.6	66.8	**70.8**	**71.3**	**71.5**	57.7	58.1	9.3
5/F	0.0	59.0	59.2	59.8	60.1	20.1	18.4	60.7	61.1	61.5	61.9	34.8	35.1	62.7	63.4	64.5	66.4	66.6	70.4	**71.0**	**71.1**	57.5	57.9	9.3
6/F	0.0	58.8	59.1	59.6	59.9	20.1	18.4	60.5	60.9	61.3	61.6	34.7	34.9	62.5	63.2	64.2	66.1	66.3	70.0	**70.5**	**70.7**	57.2	57.6	9.3
7/F	0.0	58.6	58.9	59.4	59.7	20.1	18.4	60.3	60.6	61.1	61.4	34.5	34.8	62.2	62.9	63.9	65.8	66.0	69.7	70.1	70.3	57.0	57.4	9.3
8/F	0.0	58.4	58.7	59.2	59.5	20.1	18.4	60.0	60.4	60.8	61.1	34.3	34.6	62.0	62.7	63.7	65.6	65.7	69.3	69.8	70.0	56.7	57.1	9.2
9/F	0.0	58.2	58.5	59.0	59.3	20.1	18.4	59.8	60.2	60.6	60.9	34.2	34.5	61.7	62.5	63.4	65.3	65.5	68.9	69.4	69.6	56.4	56.9	9.2
10/F	0.0	58.0	58.3	58.8	59.1	20.1	18.4	59.6	60.0	60.4	60.6	34.0	34.3	61.5	62.2	63.2	65.1	65.2	68.6	69.1	69.2	56.2	56.6	9.2
11/F	0.0	57.9	58.2	58.6	58.9	19.7	17.9	59.4	59.8	60.2	60.5	33.8	34.2	61.3	62.0	63.0	64.9	65.0	68.4	68.7	68.9	56.0	56.4	8.2
12/F	0.0	57.7	58.0	58.4	58.7	20.1	18.4	59.2	59.6	60.0	60.3	33.9	34.2	61.1	61.8	62.8	64.7	64.8	68.1	68.5	68.7	55.7	56.2	9.2
15/F	0.0	57.6	57.8	58.3	58.5	20.1	18.4	59.0	59.5	59.8	60.1	34.2	34.4	60.9	61.6	62.6	64.6	64.7	67.9	68.3	68.5	55.5	56.0	9.2
16/F	0.0	57.4	57.7	58.1	58.3	20.1	18.4	58.8	59.3	59.7	59.9	35.1	35.3	60.7	61.4	62.4	64.5	64.6	67.8	68.1	68.3	55.3	55.9	9.2
17/F	0.0	57.3	57.5	57.9	58.2	20.1	18.4	58.7	59.2	59.5	59.8	37.4	37.4	60.5	61.3	62.3	64.3	64.5	67.6	67.9	68.1	55.1	55.7	9.2

APPENDIX 5

PREDICTED ROAD TRAFFIC NOISE LEVELS FOR ALL FLOORS
(WITH NOISE MITIGATION MEASURES)

Job No. : 22580
Job Title : MOS Hotel
Scenario: Predicted Noise Levels, 2043 Taffic Forecast (With Acoustic Window (Baffle Type))

	Receiver																					
Level	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122
M/F																						
2/F	**69.0**	**69.1**	**68.0**	69.5	**69.7**	**69.6**	**69.6**	**69.6**	67.7	67.8	**69.6**	**69.6**	**69.7**	**69.8**	68.5	68.5	**69.7**	**69.7**	**69.7**	**69.7**	68.2	68.3
3/F	**68.6**	**68.6**	**67.6**	69.1	**69.1**	**69.1**	**69.1**	**69.1**	67.3	67.4	**69.1**	**69.1**	**69.2**	**69.3**	68.1	68.1	**69.2**	**69.2**	**69.2**	**69.2**	67.9	67.9
5/F	**68.3**	**68.2**	70.3	68.8	**68.7**	**68.6**	**68.7**	**68.6**	66.9	67.1	**68.7**	**68.7**	**68.7**	**68.8**	67.7	67.7	**68.8**	**68.7**	**68.7**	**68.8**	67.5	67.5
6/F	**67.8**	**67.8**	69.9	68.4	**68.2**	**68.1**	**68.2**	**68.2**	66.5	66.7	**68.2**	**68.2**	**68.2**	**68.3**	67.3	67.3	**68.3**	**68.2**	**68.3**	**68.3**	67.1	67.1
7/F	70.4	70.4	69.6	68.1	**67.8**	**67.7**	**67.8**	**67.7**	66.1	66.3	**67.8**	**67.7**	**67.8**	**67.9**	66.8	66.9	**67.8**	**67.8**	**67.8**	**67.8**	66.7	66.7
8/F	70.1	70.1	69.2	67.7	70.3	70.3	70.3	70.3	65.7	66.0	70.3	70.3	70.3	70.4	66.4	66.5	70.4	70.4	70.4	**67.5**	66.3	66.4
9/F	69.7	69.7	68.8	67.4	70.0	69.9	70.0	69.9	65.3	65.6	69.9	69.9	70.0	70.1	66.1	66.1	70.1	70.0	70.1	70.1	66.0	66.0
10/F	69.4	69.3	68.5	67.0	69.6	69.6	69.6	69.6	64.9	65.3	69.6	69.6	69.6	69.7	65.7	65.8	69.7	69.7	69.7	69.7	65.7	65.7
11/F	69.0	69.0	68.2	66.8	69.3	69.2	69.3	69.2	64.7	65.0	69.3	69.2	69.3	69.4	65.5	65.5	69.4	69.3	69.4	69.4	65.3	65.4
12/F	68.8	68.8	68.0	66.6	69.1	69.0	69.0	69.0	64.4	64.9	69.0	69.0	69.0	69.1	65.2	65.3	69.1	69.1	69.1	69.1	65.0	65.1
15/F	68.6	68.6	67.8	66.4	68.9	68.8	68.8	68.8	64.2	64.7	68.8	68.8	68.8	68.9	65.0	65.1	68.9	68.8	68.8	68.8	64.8	64.9
16/F	68.4	68.4	67.7	66.4	68.7	68.7	68.7	68.6	64.1	64.6	68.6	68.6	68.6	68.7	64.9	65.0	68.7	68.6	68.6	68.6	64.6	64.7
17/F	68.2	68.2	67.5	66.2	68.6	68.5	68.5	68.5	64.0	64.5	68.5	68.5	68.5	68.6	64.8	64.9	68.6	68.5	68.5	68.5	64.5	64.7

Remark:- Acoustic Window (Baffle Type), 3dB(A) noise reduction assumed

Job No. : 22580
Job Title : MOS Hotel
Scenario: Predicted Noise Levels, 2043 Taffic Forecast (With Acoustic Window (Baffle Type))

Level	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144
M/F																						
2/F	69.7	69.7	69.6	69.7	67.7	68.0	69.7	69.6	69.6	69.6	67.6	67.5	69.5	69.6	69.5	69.4	67.5	67.5	69.3	69.2	69.2	69.1
3/F	69.3	69.3	69.3	69.3	67.4	67.6	69.3	69.2	69.2	69.1	67.2	67.2	69.1	69.1	69.0	69.0	67.2	67.2	68.8	68.8	68.8	68.7
5/F	68.8	68.8	68.8	68.8	67.1	67.2	68.8	68.8	68.8	68.7	66.8	66.8	68.6	68.6	68.5	68.5	66.8	66.8	68.4	68.4	68.3	68.3
6/F	68.3	68.4	68.3	68.3	66.7	66.9	68.3	68.3	68.3	68.3	66.5	66.5	68.1	68.1	68.0	68.0	66.5	66.4	67.9	67.9	67.9	67.9
7/F	67.9	67.9	67.9	67.9	66.3	66.5	67.9	67.9	67.8	67.8	66.2	66.1	67.8	67.8	67.7	67.7	66.1	66.0	67.6	67.6	67.5	70.4
8/F	67.5	67.5	67.5	67.5	65.9	66.1	67.5	67.5	67.5	70.4	65.8	65.8	70.3	70.3	70.2	70.2	65.8	65.6	70.1	70.2	70.1	70.1
9/F	70.1	70.1	70.1	70.1	65.6	65.7	70.2	70.1	70.0	70.0	65.4	65.4	70.0	70.0	69.9	69.9	65.5	65.3	69.8	69.8	69.8	69.7
10/F	69.8	69.8	69.8	69.8	65.3	65.5	69.8	69.8	69.7	69.7	65.1	65.0	69.6	69.6	69.5	69.5	65.1	64.9	69.4	69.4	69.4	69.3
11/F	69.4	69.5	69.5	69.5	64.9	65.1	69.5	69.4	69.4	69.4	64.8	64.8	69.4	69.4	69.3	69.3	64.8	64.6	69.2	69.2	69.1	69.1
12/F	69.2	69.2	69.1	69.2	64.7	64.9	69.2	69.2	69.1	69.1	64.5	64.5	69.0	69.0	68.9	68.9	64.6	64.4	68.8	68.8	68.8	68.7
15/F	68.9	68.9	68.9	68.9	64.4	64.6	68.9	68.9	68.8	68.8	64.2	64.3	68.8	68.8	68.7	68.7	64.3	64.2	68.6	68.6	68.5	68.5
16/F	68.7	68.7	68.7	68.7	64.2	64.5	68.7	68.6	68.6	68.6	64.0	64.1	68.6	68.6	68.5	68.5	64.1	64.0	68.4	68.4	68.3	68.3
17/F	68.6	68.6	68.5	68.5	64.1	64.4	68.5	68.5	68.5	68.4	63.9	64.1	68.4	68.4	68.3	68.3	64.0	63.9	68.2	68.2	68.1	68.1

Remark:- Acoustic Window (Baffle Type), 3dB(A) noise reduction assumed

Job No. : 22580
Job Title : MOS Hotel
Scenario: Predicted Noise Levels, 2043 Taffic Forecast (With Acoustic Window (Baffle Type))

Level	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166
M/F					69.2	67.1	36.2	36.0	65.0	64.3	64.0	63.8	33.4	33.5	63.1	62.9	62.2	61.8	32.0	31.9	61.4	61.1
2/F	68.0	67.9	**69.1**	**69.1**	69.0	67.0	36.0	35.8	65.1	64.4	64.0	63.8	33.3	33.4	63.0	62.8	62.2	61.8	31.8	31.9	61.4	61.1
3/F	67.7	67.6	**68.7**	**68.7**	68.7	66.8	35.8	35.5	65.1	64.4	64.0	63.8	33.2	33.2	63.0	62.7	62.2	61.8	31.7	31.7	61.3	61.0
5/F	67.4	67.2	**68.3**	**68.2**	68.4	66.6	35.5	35.3	64.9	64.2	63.9	63.7	33.1	33.1	62.8	62.6	62.1	61.7	31.5	31.6	61.2	60.9
6/F	67.1	66.8	**67.8**	**67.8**	68.0	66.3	35.3	35.0	64.7	64.1	63.7	63.4	32.9	32.9	62.6	62.4	61.9	61.5	31.3	31.4	61.1	60.8
7/F	66.8	66.4	70.4	70.3	67.6	66.0	35.0	34.8	64.5	63.9	63.5	63.2	32.7	32.7	62.4	62.2	61.7	61.3	31.2	31.2	60.9	60.6
8/F	66.5	66.0	70.0	70.0	67.3	65.6	34.7	34.5	64.2	63.6	63.2	63.0	32.5	32.6	62.2	62.0	61.5	61.1	31.0	31.1	60.7	60.4
9/F	66.2	65.7	69.7	69.6	66.9	65.3	34.4	34.3	63.9	63.4	63.0	62.8	32.4	32.4	62.0	61.8	61.3	60.9	30.8	30.9	60.5	60.3
10/F	65.8	65.4	69.3	69.3	66.5	65.0	34.2	34.0	63.6	63.1	62.8	62.5	32.2	32.2	61.8	61.6	61.1	60.8	30.7	30.8	60.3	60.1
11/F	65.6	65.1	69.0	69.0	66.2	64.7	33.9	33.8	63.4	62.9	62.6	62.3	32.0	32.0	61.6	61.4	60.9	60.6	30.5	30.6	60.1	59.9
12/F	65.3	64.8	68.7	68.6	66.0	64.4	33.7	33.6	63.2	62.6	62.3	62.1	31.8	31.9	61.4	61.2	60.7	60.4	30.4	30.5	59.9	59.7
15/F	65.1	64.6	68.4	68.4	65.7	64.2	33.6	33.5	62.9	62.4	62.1	61.9	31.9	32.0	61.2	61.0	60.5	60.2	30.5	30.6	59.8	59.5
16/F	64.9	64.4	68.2	68.1	65.5	64.0	34.4	34.5	62.7	62.2	61.9	61.7	32.9	33.3	61.0	60.8	60.4	60.0	31.8	32.2	59.6	59.4
17/F	64.8	64.3	68.0	67.9	65.4	63.8	37.2	37.2	62.5	62.0	61.7	61.5	35.7	36.1	60.8	60.6	60.1	59.9	34.6	35.0	59.5	59.2

Remark:- Acoustic Window (Baffle Type), 3dB(A) noise reduction assumed

Job No. : 22580
Job Title : MOS Hotel
Scenario: Predicted Noise Levels, 2043 Taffic Forecast (With Acoustic Window (Baffle Type))

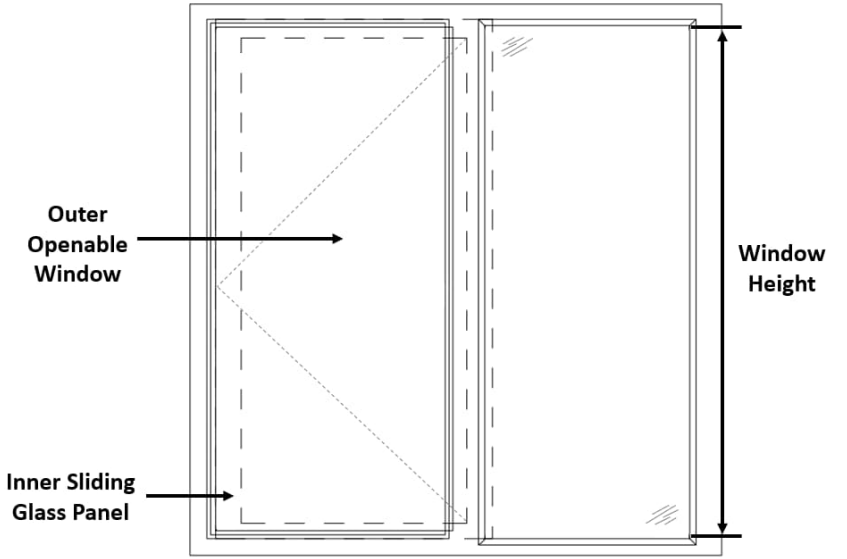
Level	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190
M/F	0.0	58.9	59.1	59.0	58.9	20.1	18.4	58.9	59.4	59.9	60.5	35.3	35.6	62.1	63.3	64.6	67.0	67.0						
2/F	0.0	59.0	59.3	59.8	60.2	20.1	18.4	60.9	61.3	61.8	62.2	35.1	35.5	63.2	64.0	64.9	66.8	67.1	**68.1**	**68.7**	**68.9**	57.8	58.2	9.3
3/F	0.0	59.0	59.3	59.9	60.3	20.1	18.4	60.9	61.3	61.8	62.1	35.0	35.3	63.0	63.7	64.7	66.6	66.8	**67.8**	**68.3**	**68.5**	57.7	58.1	9.3
5/F	0.0	59.0	59.2	59.8	60.1	20.1	18.4	60.7	61.1	61.5	61.9	34.8	35.1	62.7	63.4	64.5	66.4	66.6	70.4	**68.0**	**68.1**	57.5	57.9	9.3
6/F	0.0	58.8	59.1	59.6	59.9	20.1	18.4	60.5	60.9	61.3	61.6	34.7	34.9	62.5	63.2	64.2	66.1	66.3	70.0	**67.5**	**67.7**	57.2	57.6	9.3
7/F	0.0	58.6	58.9	59.4	59.7	20.1	18.4	60.3	60.6	61.1	61.4	34.5	34.8	62.2	62.9	63.9	65.8	66.0	69.7	70.1	70.3	57.0	57.4	9.3
8/F	0.0	58.4	58.7	59.2	59.5	20.1	18.4	60.0	60.4	60.8	61.1	34.3	34.6	62.0	62.7	63.7	65.6	65.7	69.3	69.8	70.0	56.7	57.1	9.2
9/F	0.0	58.2	58.5	59.0	59.3	20.1	18.4	59.8	60.2	60.6	60.9	34.2	34.5	61.7	62.5	63.4	65.3	65.5	68.9	69.4	69.6	56.4	56.9	9.2
10/F	0.0	58.0	58.3	58.8	59.1	20.1	18.4	59.6	60.0	60.4	60.6	34.0	34.3	61.5	62.2	63.2	65.1	65.2	68.6	69.1	69.2	56.2	56.6	9.2
11/F	0.0	57.9	58.2	58.6	58.9	19.7	17.9	59.4	59.8	60.2	60.5	33.8	34.2	61.3	62.0	63.0	64.9	65.0	68.4	68.7	68.9	56.0	56.4	8.2
12/F	0.0	57.7	58.0	58.4	58.7	20.1	18.4	59.2	59.6	60.0	60.3	33.9	34.2	61.1	61.8	62.8	64.7	64.8	68.1	68.5	68.7	55.7	56.2	9.2
15/F	0.0	57.6	57.8	58.3	58.5	20.1	18.4	59.0	59.5	59.8	60.1	34.2	34.4	60.9	61.6	62.6	64.6	64.7	67.9	68.3	68.5	55.5	56.0	9.2
16/F	0.0	57.4	57.7	58.1	58.3	20.1	18.4	58.8	59.3	59.7	59.9	35.1	35.3	60.7	61.4	62.4	64.5	64.6	67.8	68.1	68.3	55.3	55.9	9.2
17/F	0.0	57.3	57.5	57.9	58.2	20.1	18.4	58.7	59.2	59.5	59.8	37.4	37.4	60.5	61.3	62.3	64.3	64.5	67.6	67.9	68.1	55.1	55.7	9.2

Remark:- Acoustic Window (Baffle Type), 3dB(A) noise reduction assumed

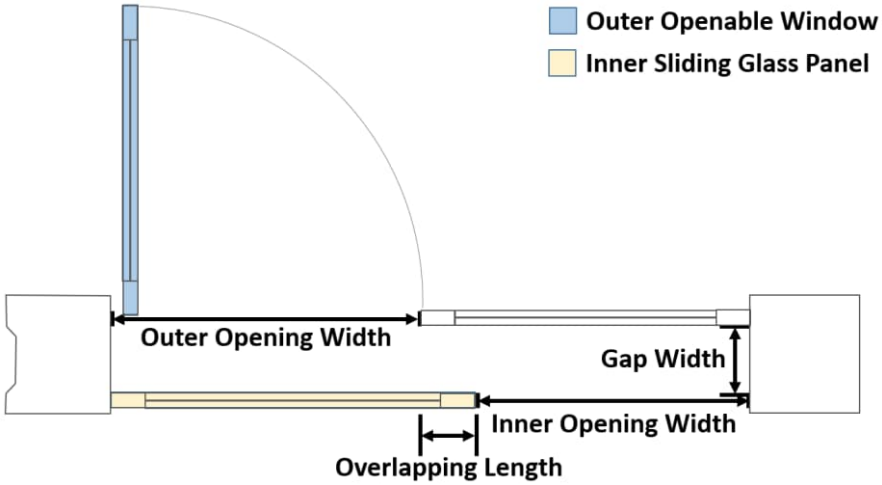
APPENDIX 6

DESIGN OF ACOUSTIC WINDOW (BAFFLE TYPE)
(EXTRACTED FROM PN5/23)

(I) Possible design of "Acoustic Window (Baffle Type)" for 8m² and 18m² habitable rooms (i.e. dining room, living room or bedroom)



INTERNAL VIEW (NOT TO SCALE)



PLAN (NOT TO SCALE)

Possible Designs of "Acoustic Window (Baffle Type)" for 8m² and 18m² rooms					
Room Size (m^2)	**Room Dimensions (mm^3)**	**Inner Window Opening (mm^2)**	**Outer Window Opening (mm^2)**	**Overlapping Length (mm)**	**Gap Width (mm)**
8	**3200 (W) x 2500 (D) x 3400 (H)**	**580 (W) x 870 (H)**	**600 (W) x 870 (H)**	**≥ 100**	**100 to 175**
18	**5300 (W) x 3390 (D) x 3400 (H)**	**750 (W) x 1500 (H)**	**750 (W) x 1500 (H)**	**≥ 100**	**100 to 175**

Notes:

a. These are feasible designs of AW(BT) for 8m² and 18m² rooms.

b. For optimum performance of noise reduction, the air gap should have a pane-to-pane overlapping length of ≥ 100mm and a gap width between 100mm and 175mm, with the inner sliding glass panel in a closed position. The window pane shall be ≥ 6mm in thickness.

APPENDIX 7

SCHEDULE OF NOISE MITIGATION MEASURES

Proposed Development at Sha Tin Town Lot No. 461, Ma On Shan, Shatin

Schedule of Noise Mitigation Measures

1. Acoustic Window (baffle type)

Assessment Point	Location	Floor
185	BR	2/F – 3/F
186	MBR	2/F – 6/F
187	LIV	2/F – 6/F
101	LIV	2/F – 6/F
102	MBR	2/F – 6/F
103	BR	2/F – 3/F
105	BR	2/F – 7/F
106	LIV	2/F – 7/F
107	LIV	2/F – 7/F
108	BR	2/F – 7/F
111	BR	2/F – 7/F
112	LIV	2/F – 7/F
113	LIV	2/F – 7/F
114	BR	2/F – 7/F
117	BR	2/F – 7/F
118	LIV	2/F – 7/F
119	LIV	2/F – 7/F
120	BR	2/F – 8/F
123	BR	2/F – 8/F
124	LIV	2/F – 8/F
125	LIV	2/F – 8/F
126	BR	2/F – 8/F
129	BR	2/F – 8/F
130	LIV	2/F – 8/F
131	LIV	2/F – 8/F
132	BR	2/F – 7/F
135	BR	2/F – 7/F
136	LIV	2/F – 7/F
137	LIV	2/F – 7/F
138	BR	2/F – 7/F
141	BR	2/F – 7/F
142	LIV	2/F – 7/F
143	LIV	2/F – 7/F
144	BR	2/F – 6/F
147	BR	2/F – 6/F
148	LIV	2/F – 6/F

Note: 4/F, 13/F and 14/F are omitted

The Applicant shall undertake the implementation of the recommended noise mitigation measures above.