

Appendix 4.8 Construction Noise Calculation during Restricted Hours (Unmitigated Scenario)

NSR: VM - Villa Maria		Representative Floor: 4/F		Floor mPD: 16.8 m		2023												2024												2025												2026												2027												2028																																								
Groups of PME	Construction Activity	Work ^[1] Zone No.	SWL	Dist ^[2] (m)	SPL ^[4]	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec																	
						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60																																									
(A) Work Zone at Northern Side of Shing Mun River																																																																																																										
(A3) Work Zone A3																																																																																																										
6a 13	(A3.3) Construction of Bridge Structure for T4(EB)	NW_A3	100	96	55																																																																																																					
	(A3.3.3) Bridge Deck	NW_A3	112	96	67																															55	55	55																																																																				
(A3.3.4) Noise Barriers																																																																																																										
(A4) Work Zone A4																																																																																																										
6a 14	(A4.3) Construction of Bridge Structure for T4(EB)	NW_A4	100	157	51																																																																																																					
	(A4.3.3) Bridge Deck	NW_A4	112	157	63																															51	51	51																																																																				
(A4.3.4) Noise Barriers / Enclosures																																																																																																										
Overall Noise Level, Leq (5 min), dB(A)																																				51	51	51	55	55	55																															67	67	69	63	63																														

Remarks:
 [1] The Works Area with length to width ratio exceeding 5 : 1 is divided into Subareas.
 [2] Works area which are completely out of 300m assessment area from the NSR is not considered in the assessment.
 [3] Includes a +3 dB(A) Façade Correction.
 [4] For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

Appendix 4.8 Construction Noise Calculation during Restricted Hours (Unmitigated Scenario)

NSR: TFSR4 - 18 To Fung Shan Road
 Representative Floor: 1/F

		Floor mPD: 19.9 m		2023												2024												2025												2026												2027												2028																																										
Groups of PME	Construction Activity	Work ^[1] Zone No.	SWL	Dist ^[2] (m)	SPL ^[4]	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec																	
						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60																																									
(A) Work Zone at Northern Side of Shing Mun River																																																																																																										
(A3) Work Zone A3																																																																																																										
6a	(A3.3) Construction of Bridge Structure for T4(EB)	NW_A3	100	160	51																																																																																																					
13	(A3.3.3) Bridge Deck	NW_A3	112	160	63																												51	51	51																																																																							
(A4) Work Zone A4																																																																																																										
6a	(A4.3) Construction of Bridge Structure for T4(EB)	NW_A4	100	180	50																																																																																																					
14	(A4.3.3) Bridge Deck	NW_A4	112	180	62																												50	50	50																																																																							
(A4.3.4) Noise Barriers / Enclosures																																																																																																										
Overall Noise Level, Leq (5 min), dB(A)																																	50	50	50	51	51	51																												63	63	65	62	62																																				

Remarks:
 [1] The Works Area with length to width ratio exceeding 5 : 1 is divided into Subareas.
 [2] Works area which are completely out of 300m assessment area from the NSR is not considered in the assessment.
 [3] Includes a +3 dB(A) Façade Correction.
 [4] For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

Appendix 4.8 Construction Noise Calculation during Restricted Hours (Unmitigated Scenario)

NSR: SC1 - Block 1, Scenery Court
 Representative Floor: 1/F

			Floor mPD: 21.1 m		2023												2024												2025												2026												2027												2028																																																
Groups of PME	Construction Activity	Work ^[1] Zone No.	SWL	Dist ^[2] (m)	SPL ^[4]	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60																																																
(A) Work Zone at Northern Side of Shing Mun River																																																																																																																	
	(A3) Work Zone A3																																																																																																																
6a	(A3.3) Construction of Bridge Structure for T4(EB)	NW_A3	100	315	45																																																																																																												
13	(A3.3.3) Bridge Deck	NW_A3	112	315	57																												45	45	45																																																																														
	(A3.3.4) Noise Barriers																																																																																																																
	(A4) Work Zone A4																																																																																																																
6a	(A4.3) Construction of Bridge Structure for T4(EB)	NW_A4	100	214	48																												48	48	48																																																																														
14	(A4.3.3) Bridge Deck	NW_A4	112	214	60																																																																																																												
	(A4.3.4) Noise Barriers / Enclosures																																																																																																																
		Overall Noise Level, Leq (5 min), dB(A)																															48	48	48	45	45	45																																		57	57	62	60	60																																					

Remarks:

- [1] The Works Area with length to width ratio exceeding 5 : 1 is divided into Subareas.
- [2] Works area which are completely out of 300m assessment area from the NSR is not considered in the assessment.
- [3] Includes a +3 dB(A) Façade Correction.
- [4] For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

Appendix 4.8 Construction Noise Calculation during Restricted Hours (Unmitigated Scenario)

NAP ID	Assessment Floor	Floor mPD	Maximum Predicted Restricted Hour Construction Noise Level, dB(A)
OTT1	1/F	16.8	67
	2/F	19.6	67
	3/F	22.4	67
VM	1/F	8.4	69
	2/F	11.2	69
	4/F	16.8	69
TFSR2	1/F	33.7	65
	3/F	39.3	65
	4/F	42.1	65
TFSR4	1/F	19.9	65
	2/F	22.7	65
	3/F	25.5	65
SC1	1/F	21.1	62
	12/F	51.9	62
	23/F	82.7	62

ISO A1 594mm x 841mm
 Approved:
 Checked:
 Designer:
 Project Management Initials:
 2021/7/5
 PATH PROJECTS\60579757\DRAWING\REPORT\RA04_701.dgn

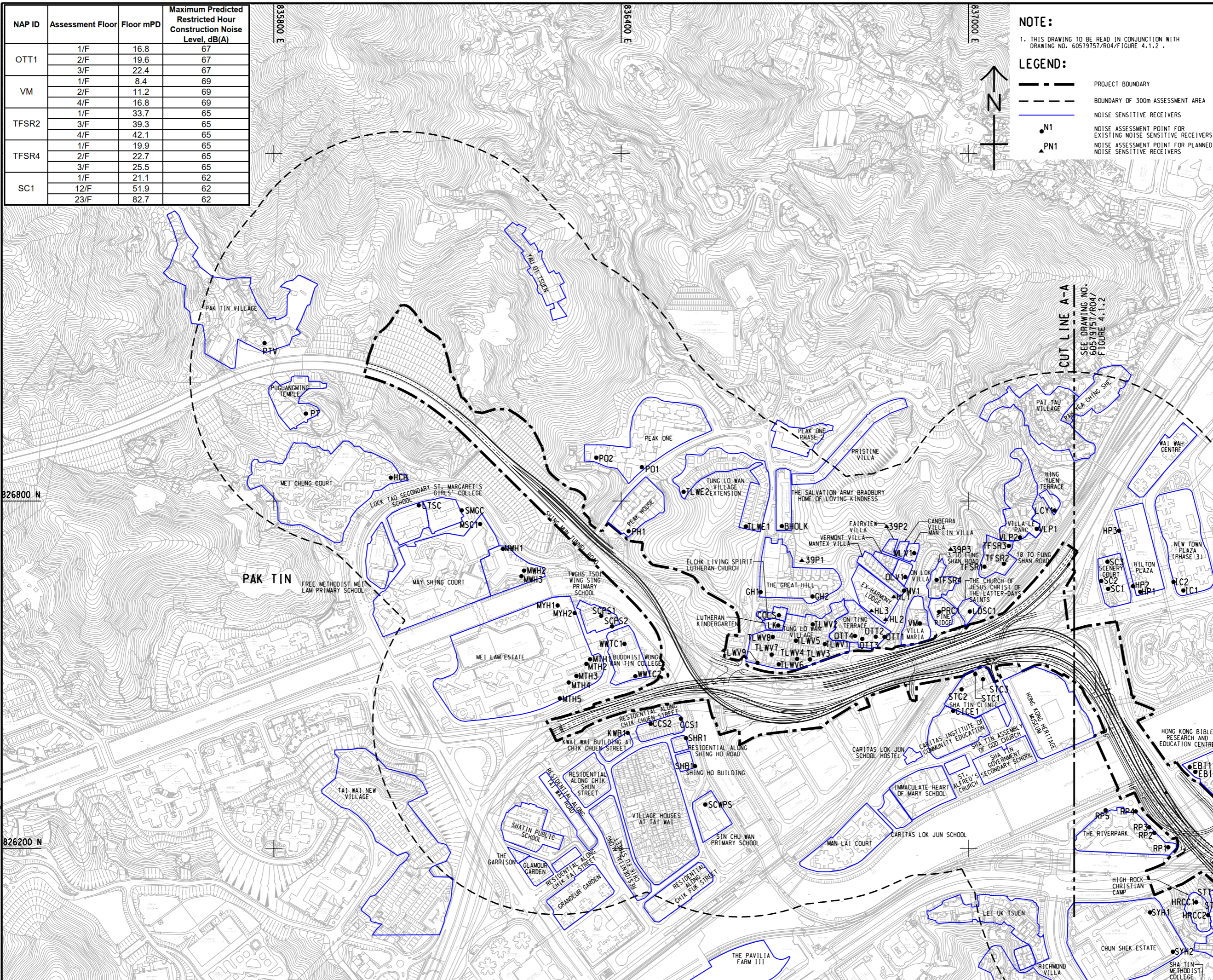
NAP ID	Assessment Floor	Floor mPD	Maximum Predicted Restricted Hour Construction Noise Level, dB(A)
OTT1	1/F	16.8	67
	2/F	19.6	67
	3/F	22.4	67
VM	1/F	8.4	69
	2/F	11.2	69
	4/F	16.8	69
TFSR2	1/F	33.7	65
	3/F	39.3	65
TFSR4	4/F	42.1	65
	1/F	19.9	65
	2/F	22.7	65
SC1	3/F	25.5	65
	1/F	21.1	62
	23/F	82.7	62

NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NO. 60579757/R04/FIGURE 4.1.2 .

LEGEND:

- PROJECT BOUNDARY
- BOUNDARY OF 300m ASSESSMENT AREA
- NOISE SENSITIVE RECEIVERS
- N1 NOISE ASSESSMENT POINT FOR EXISTING NOISE SENSITIVE RECEIVERS
- PN1 NOISE ASSESSMENT POINT FOR PLANNED NOISE SENSITIVE RECEIVERS



PROJECT
 項目
REVISED TRUNK ROAD T4 IN SHA TIN

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

CONSULTANT
 顧問公司
 AECOM Asia Company Ltd.
 www.aecom.com

SUB-CONSULTANTS
 分判工程師/顧問公司

ISSUE/REVISION
 修訂

IR	DATE	DESCRIPTION	CHK.

STATUS
 階段

SCALE
 比例
 A3 1 : 6000

DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN
 索引圖

PROJECT NO.
 項目編號
 60579757

AGREEMENT NO.
 協議編號
 CE8/2018 (HY)

SHEET TITLE
 圖紙名稱
 LOCATION OF NOISE SENSITIVE RECEIVERS

SHEET NUMBER
 圖紙編號
 60579757/R04/FIGURE 4.1.1

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