

Appendix XI – A Sample Spreadsheet for BIM File Name Validation

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1. Introduction

- 1.1. BIM file name validation process can be embedded in BIM CDCP, GBDR or spreadsheet.
- 1.2. This Appendix provides an example of BIM file name validation process using the spreadsheet approach. This process is not required if the BIM CDCP has validation capabilities.
- 1.3. This Appendix is composed of the following:
 - 1.3.1. A spreadsheet file containing worksheets for code management and BIM model name generation; and
 - 1.3.2. The step-by-step instructions in the section below on how to utilise the spreadsheet to facilitate the data validation process.

2. BIM File Name Validation Process Using Spreadsheet

- 2.1. In this example, a data spreadsheet has been created based on the project of Kwu Tung North (KTN) and Fanling North (FLN) New Development Areas (NDA), Phase 1.
- 2.2. To ensure that the data going through conversion engine into GBDR to be shared with other parties have consistent naming (information container ID), a validation list is formed based on two types of codes:
 - 2.2.1. **Common Codes** in accordance with Appendix X – Common Codes for Naming; and
 - 2.2.2. **Project-specific Codes** which would be different for different projects. An example of project-specific codes is provided in Appendix IX – Sample Project Specific Codes for Naming.

2.3. To add codes to the list:

2.3.1. Go to the "Project Specific Code" worksheet (orange coloured tab). The "Common Code" worksheet should not be modified without consensus between all WDs.

Figure App XI-1 - The "Project Specified Code" Worksheet

Field 1 : Project		Field 2 : Originator		Field 3.1 : Volume	
Abbreviation	Description	Abbreviation	Description	Abbreviation	Description
CE1314	Agreement No. CE 13/2014 (CE) Development of Kwo Tung North (KTN) and Fanling North (FLN) New Development Areas (NDA), Phase 1 - Design and Construction			C1	Kwo Tung North New Development Area, Phase 1: Site Formation and Infrastructure Works
ND1901	Kwo Tung North New Development Area, Phase 1: Site Formation and Infrastructure Works			C2	Kwo Tung North New Development Area, Phase 1: Roads and Drains between Kwo Tung North New Development Area and Shek Wu Hui
ND1902	Kwo Tung North New Development Area, Phase 1: Roads and Drains between Kwo Tung North New Development Area and Shek Wu Hui			C3	Kwo Tung North and Fanling North New Development Areas, Phase 1: Development of Long Valley Nature Park
ND1903	Kwo Tung North and Fanling North New Development Areas, Phase 1: Development of Long Valley Nature Park			C4	Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section (Shek Wu San Tsuen North to Lung Yeuk Tau)
ND1904	Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section (Shek Wu San Tsuen North to Lung Yeuk Tau)			C5	Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section (Shung Him Tong to Kau Lung Hang)
ND1905	Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section (Shung Him Tong to Kau Lung Hang)			C6	Fanling North New Development Area, Phase 1: Reprovisioning of North District Temporary Wholesale Market for Agricultural Products
ND1906	Fanling North New Development Area, Phase 1: Reprovisioning of North District Temporary Wholesale Market for Agricultural Products			C7	Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works
ND1907	Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works				

2.3.2. Find the corresponding field and add the information to the bottom of the list. The field length and format as specified in the Guidelines should be followed.

2.3.3. The value of the field will be automatically updated in the corresponding field worksheet (green coloured tabs).

[illegible]

Figure App XI-3 - The “Model Naming” Worksheets

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	
2	Model File Naming																					Legends		Project-specific Codes		
3	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	
4	Project	Discipline	Volume	System	Location	Sub-location / Level	Discipline	Sub-discipline	Type	Characteristics	Sequential Number	Model File Name					Length of File Name	Auto Description								
5	Required (1-3)	Required (1-3)	Required (1-3)	Optional (1-3)	Required (1-4)	Optional (1-2)	Required (1-2)	Optional (1-2)	Required (1-2)	Optional (1)	Optional (1)															
6	CE1314	ACM	CA	HWS - Highway	XX - Underspass	RD - Road	RD - Road	PV - Pavement	M3 - 3D Model	N - New Works	CE1314-ACM-CA-HWS-UP-M3-N	31	Road (Road) Road (Pavement) 3D Model File of CA (New Works/Proposed Works)					28	Undersurface Structural 3D Model File of CA (New Works/Proposed Works)							
7	CE1314	ACM	CA	HWS - Highway	XX - Underspass	RD - Road	RD - Road	PV - Pavement	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-PV-M3-N	31	Road (Road) Road (Pavement) 3D Model File of CA (New Works/Proposed Works)					30	Roundabout Road (Pavement) 3D Model File of CA (New Works/Proposed Works)							
8	CE1314	ACM	CA	RD - Roundabout	RD - Roundabout	RD - Road	RD - Road	PV - Pavement	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-PV-M3-N	31	Roundabout Road (Pavement) 3D Model File of CA (New Works/Proposed Works)					30	Roundabout Road (Pavement) 3D Model File of CA (New Works/Proposed Works)							
9	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	PV - Pavement	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-PV-M3-N	31	Road (Road) Road (Pavement) 3D Model File of CA (New Works/Proposed Works)					30	Road (Road) Road (Pavement) 3D Model File of CA (New Works/Proposed Works)							
10	CE1314	ACM	CA	HWS - Highway	BG - Bridge	RD - Road	RD - Road	LA - Landscape	M3 - 3D Model	N - New Works	CE1314-ACM-CA-HWS-BG-LA-M3-N	31	Bridge Road (Landscape) 3D Model File of CA (New Works/Proposed Works)					28	Bridge Road (Landscape) 3D Model File of CA (New Works/Proposed Works)							
11	CE1314	ACM	CA	GE -	XX - Non-specific	SL - Slope	SL - Slope	CT - Surface	M3 - 3D Model	N - New Works	CE1314-ACM-CA-GE-XS-M3-N	31	Slope (Surface) 3D Model File of CA (New Works/Proposed Works)					30	Slope (Surface) 3D Model File of CA (New Works/Proposed Works)							
12	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	CT - Cycle Track	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-CT-M3-N	31	Road (Cycle Track) 3D Model File of CA (New Works/Proposed Works)					30	Road (Cycle Track) 3D Model File of CA (New Works/Proposed Works)							
13	CE1314	ACM	CA	HWS - Highway	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-HWS-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
14	CE1314	ACM	CA	RD - Road	BG - Bridge	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-BG-UG-M3-N	31	Bridge Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Bridge Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
15	CE1314	ACM	CA	RD - Road	MSH - M/S Sls	RD - Road	RD - Road	PV - Pavement	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-MSH-PV-M3-N	31	Road (M/S Road Drains) 3D Model File of CA (New Works/Proposed Works)					30	Road (M/S Road Drains) 3D Model File of CA (New Works/Proposed Works)							
16	CE1314	ACM	CA	GE -	XX - Non-specific	SL - Slope	SL - Slope	RD - Retaining	M3 - 3D Model	N - New Works	CE1314-ACM-CA-GE-XS-SL-M3-N	31	Slope (Retaining Wall) 3D Model File of CA (New Works/Proposed Works)					30	Slope (Retaining Wall) 3D Model File of CA (New Works/Proposed Works)							
17	CE1314	ACM	CA	PS - Electrical	XX - Non-specific	RD - Road	RD - Road	OR - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-PS-OR-M3-N	31	Road (Electrical) 3D Model File of CA (New Works/Proposed Works)					27	Electrical Power System 3D Model File of CA (New Works/Proposed Works)							
18	CE1314	ACM	CA	HWS - Highway	BG - Bridge	RD - Road	RD - Road	OR - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-HWS-BG-OR-M3-N	31	Bridge Road (Road Drains) 3D Model File of CA (New Works/Proposed Works)					27	Bridge Road (Road Drains) 3D Model File of CA (New Works/Proposed Works)							
19	CE1314	ACM	CA	SD - Stormwater	XX - Non-specific	SD - Stormwater	SD - Stormwater	SD - Stormwater	M3 - 3D Model	N - New Works	CE1314-ACM-CA-SD-XS-M3-N	31	Stormwater Drainage 3D Model File of CA (New Works/Proposed Works)					27	Stormwater Drainage 3D Model File of CA (New Works/Proposed Works)							
20	CE1314	ACM	CA	WS - Water	XX - Non-specific	WS - Water	WS - Water	WS - Water	M3 - 3D Model	N - New Works	CE1314-ACM-CA-WS-XS-M3-N	31	Fresh Water System 3D Model File of CA (New Works/Proposed Works)					27	Fresh Water System 3D Model File of CA (New Works/Proposed Works)							
21	CE1314	ACM	CA	FO - Sewerage	XX - Non-specific	FO - Sewerage	FO - Sewerage	FO - Sewerage	M3 - 3D Model	N - New Works	CE1314-ACM-CA-FO-XS-M3-N	31	Sewerage 3D Model File of CA (New Works/Proposed Works)					27	Sewerage 3D Model File of CA (New Works/Proposed Works)							
22	CE1314	ACM	CA	WS - Water	XX - Non-specific	SW - Salt Water	SW - Salt Water	SW - Salt Water	M3 - 3D Model	N - New Works	CE1314-ACM-CA-WS-XS-M3-N	31	Salt Water System 3D Model File of CA (New Works/Proposed Works)					27	Salt Water System 3D Model File of CA (New Works/Proposed Works)							
23	CE1314	ACM	CA	WS - Water	XX - Non-specific	IR - Irrigation	IR - Irrigation	IR - Irrigation	M3 - 3D Model	N - New Works	CE1314-ACM-CA-WS-XS-M3-N	31	Irrigation 3D Model File of CA (New Works/Proposed Works)					27	Irrigation 3D Model File of CA (New Works/Proposed Works)							
24	CE1314	ACM	CA	GS - Gas Supply	XX - Non-specific	GS - Gas Supply	GS - Gas Supply	GS - Gas Supply	M3 - 3D Model	N - New Works	CE1314-ACM-CA-WS-XS-M3-N	31	Gas Supply 3D Model File of CA (New Works/Proposed Works)					27	Gas Supply 3D Model File of CA (New Works/Proposed Works)							
25	CE1314	ACM	CA	TC	XX - Non-specific	TC	TC	PV - Pavement	M3 - 3D Model	N - New Works	CE1314-ACM-CA-TC-XS-M3-N	31	Telecommunication 3D Model File of CA (New Works/Proposed Works)					27	Telecommunication 3D Model File of CA (New Works/Proposed Works)							
26	CE1314	ACM	CA	HWS - Highway	FBF - Footbridge	RD - Road	RD - Road	PV - Pavement	M3 - 3D Model	N - New Works	CE1314-ACM-CA-HWS-FBF-RD-PV-M3-N	31	Footbridge Road (Pavement) 3D Model File of CA (New Works/Proposed Works)					30	Footbridge Road (Pavement) 3D Model File of CA (New Works/Proposed Works)							
27	CE1314	ACM	CA	BD - Building	PG - Playground	BS - Building	BS - Building	UG - Lighting	M3 - 3D Model	N - New Works	CE1314-ACM-CA-BD-PG-BS-UG-M3-N	31	Playground Building Services (Lighting) 3D Model File of CA (New Works/Proposed Works)					30	Playground Building Services (Lighting) 3D Model File of CA (New Works/Proposed Works)							
28	CE1314	ACM	CA	HWS - Highway	UP - Underspass	BS - Building	BS - Building	LA - Heating	M3 - 3D Model	N - New Works	CE1314-ACM-CA-HWS-UP-BS-M3-N	31	Underspass Building Services (Heating, ventilation, and air conditioning) 3D Model File of CA (New Works/Proposed Works)					30	Underspass Building Services (Heating, ventilation, and air conditioning) 3D Model File of CA (New Works/Proposed Works)							
29	CE1314	ACM	CA	HWS - Highway	UP - Underspass	EL - Electrical	EL - Electrical	PS - Fire Services	M3 - 3D Model	N - New Works	CE1314-ACM-CA-HWS-UP-EL-M3-N	31	Underspass Fire Services 3D Model File of CA (New Works/Proposed Works)					30	Underspass Fire Services 3D Model File of CA (New Works/Proposed Works)							
30	CE1314	ACM	CA	HWS - Highway	UP - Underspass	RD - Road	RD - Road	BG - Bridge	M3 - 3D Model	N - New Works	CE1314-ACM-CA-HWS-UP-RD-M3-N	31	Underspass Road (Road) Lighting 3D Model File of CA (New Works/Proposed Works)					30	Underspass Road (Road) Lighting 3D Model File of CA (New Works/Proposed Works)							
31	CE1314	ACM	CA	HWS - Highway	BS - Bridge	RD - Road	RD - Road	BG - Bridge	M3 - 3D Model	N - New Works	CE1314-ACM-CA-HWS-BS-RD-M3-N	31	Bridge Structural (Bridge) 3D Model File of CA (New Works/Proposed Works)					30	Bridge Structural (Bridge) 3D Model File of CA (New Works/Proposed Works)							
32	CE1314	ACM	CA	HWS - Highway	FBF - Footbridge	ST - Structural	ST - Structural	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-HWS-FBF-ST-M3-N	31	Footbridge Road (Road) 3D Model File of CA (New Works/Proposed Works)					30	Footbridge Road (Road) 3D Model File of CA (New Works/Proposed Works)							
33	CE1314	ACM	CA	HWS - Highway	BS - Bridge	ST - Structural	ST - Structural	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-HWS-FBF-ST-M3-N	31	Footbridge Road (Road) 3D Model File of CA (New Works/Proposed Works)					30	Footbridge Road (Road) 3D Model File of CA (New Works/Proposed Works)							
34	CE1314	ACM	CA	HWS - Highway	FBF - Footbridge	ST - Structural	ST - Structural	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-HWS-FBF-ST-M3-N	31	Footbridge Road (Road) 3D Model File of CA (New Works/Proposed Works)					30	Footbridge Road (Road) 3D Model File of CA (New Works/Proposed Works)							
35	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
36	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
37	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
38	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
39	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
40	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
41	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
42	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
43	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
44	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
45	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
46	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
47	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
48	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
49	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
50	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
51	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
52	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
53	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
54	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
55	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
56	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
57	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
58	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
59	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
60	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
61	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
62	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
63	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
64	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
65	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
66	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
67	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model File of CA (New Works/Proposed Works)							
68	CE1314	ACM	CA	RD - Road	XX - Non-specific	RD - Road	RD - Road	UG - Road	M3 - 3D Model	N - New Works	CE1314-ACM-CA-RD-RD-UG-M3-N	31	Road (Highway) 3D Model File of CA (New Works/Proposed Works)					30	Road (Highway) 3D Model							

2.4.2. Use the drop-down list of each field (from Column A to Column K) to select the correct code. Required fields must not be omitted. The cells with project-specific code selected

would be automatically highlighted with orange colour while that with common code selected would be automatically highlighted with blue colour.

Figure App XI-4 – Example of Drop-Down List for Selecting Codes

A	B	C	D	E	F	G	H	I	J	K
Model File Naming										
1	2	3.1	3.2	4.1	4.2	5.1	5.2	6.1	6.2	7
Project	Originator	Volume	System	Location	Sub-location / Level	Discipline	Sub-discipline	Type	Characteristic	Sequential Number
Required (1-8)	Required (3)	Required (1-3)	Optional (1-3)	Required (1-4)	Optional (1-2)	Required (1-2)	Optional (1-2)	Required (1-2)	Optional (1)	Optional (3)
CE1314	ACM	C4	HWS - Highway	UP - Underpass		RD - Road	PV - Pavement	M3 - 3D Model	N - New Works/	
CE1314	ACM	C4	HWS - Highway	UP - Underpass		RD - Road		M3 - 3D Model	N - New Works/	
CE1314	ACM	C4	RD - Road	XX - Non-specific		RW - Raw Water System	V - Pavement	M3 - 3D Model	N - New Works/	
CE1314	ACM	C4	RD - Road	RO -		SD - Stormwater Drainage	V - Pavement	M3 - 3D Model	N - New Works/	
CE1314	ACM	C4	RD - Road	XX - Non-specific		SF - Site Formation	V - Pavement	M3 - 3D Model	N - New Works/	
CE1314	ACM	C4	HWS - Highway	BG - Bridge		SL - Slope		M3 - 3D Model	N - New Works/	
CE1314	ACM	C4	GE -	XX - Non-specific		ST - Structural		M3 - 3D Model	N - New Works/	
CE1314	ACM	C4	GE -	XX - Non-specific		SW - Salt Water System		M3 - 3D Model	N - New Works/	
CE1314	ACM	C4	RD - Road	XX - Non-specific		TC - Telecommunication		M3 - 3D Model	N - New Works/	
CE1314	ACM	C4	RD - Road	XX - Non-specific		SL - Slope	SD - Surface	M3 - 3D Model	N - New Works/	
CE1314	ACM	C4	RD - Road	XX - Non-specific		RD - Road	CT - Cycle Track	M3 - 3D Model	N - New Works/	
CE1314	ACM	C4	RD - Road	XX - Non-specific		RD - Road	LG - Road	M3 - 3D Model	N - New Works/	
CE1314	ACM	C4	HWS - Highway	BG - Bridge		RD - Road	LG - Road	M3 - 3D Model	N - New Works/	
CE1314	ACM	C4	RD - Road	MSR - Ma Sik		RD - Road	PV - Pavement	M3 - 3D Model	N - New Works/	
CE1314	ACM	C4	GE -	XX - Non-specific		SL - Slope	RW - Retaining	M3 - 3D Model	N - New Works/	

2.4.3. After selecting the codes for all required fields, the model file name, length of file name and description (from Column W to Column Y) would be generated automatically.

Figure App XI-5 - Example of Auto-Generated Information for Model Files

W	X	Y
Model File Naming		
Legends:		Project-specific Codes
		Common Codes
Model File Name	Length of File Name	Auto Description
CE1314-ACM-C4_HWS-UP-RD_PV-M3_N	31	Underpass Road (Pavement) 3D Model File of C4 (New Works/ Proposed Works)
CE1314-ACM-C4_HWS-UP-ST-M3_N	28	Underpass Structural 3D Model File of C4 (New Works/ Proposed Works)
CE1314-ACM-C4_RD-XX-RD_PV-M3_N	30	Road (Pavement) 3D Model File of C4 (New Works/ Proposed Works)
CE1314-ACM-C4_RD-RO-RD_PV-M3_N	30	Roundabout Road (Pavement) 3D Model File of C4 (New Works/ Proposed Works)
CE1314-ACM-C4_RD-XX-RD_PV-M3_N	30	Road (Pavement) 3D Model File of C4 (New Works/ Proposed Works)
CE1314-ACM-C4_HWS-BG-LA-M3_N	28	Bridge Landscape 3D Model File of C4 (New Works/ Proposed Works)
CE1314-ACM-C4_GE-XX-SL-M3_N	27	Slope 3D Model File of C4 (New Works/ Proposed Works)
CE1314-ACM-C4_GE-XX-SL_SD-M3_N	30	Slope (Surface Drainage) 3D Model File of C4 (New Works/ Proposed Works)
CE1314-ACM-C4_RD-XX-RD_CT-M3_N	30	Road (Cycle Track) 3D Model File of C4 (New Works/ Proposed Works)
CE1314-ACM-C4_RD-XX-RD_LG-M3_N	30	Road (Road Lighting) 3D Model File of C4 (New Works/ Proposed Works)
CE1314-ACM-C4_HWS-BG-RD_LG-M3_N	31	Bridge Road (Road Lighting) 3D Model File of C4 (New Works/ Proposed Works)
CE1314-ACM-C4_RD-MSR-RD_PV-M3_N	31	Ma Sik Road Road (Pavement) 3D Model File of C4 (New Works/ Proposed Works)
CE1314-ACM-C4_GE-XX-SL_RW-M3_N	30	Slope (Retaining Wall) 3D Model File of C4 (New Works/ Proposed Works)

2.5. The limitations of the sample spreadsheet for BIM file name validation should be noted. To keep this spreadsheet's file size manageable, the numbers of rows for the "Model Naming" worksheet and the worksheets for each field are capped at 10,000.

- 2.6. On the “Model Naming” worksheet, the cells from Column L to Column V are input with formulas for background control of Data. Since users don't need to input or view these cells, they are hidden for better user experience.

Figure App XI-6 - Hidden Columns on the “Model Naming” Worksheet

	L	M	N	O	P	Q	R	S	T	U	V	W
1	Model File Naming											
2	1	2	3.1	3.2	4.1	4.2	5.1	5.2	6.1	6.2	7	Legends:
3												
4	Project-Specific	Common	Project-Specific	Common	Common / Project-Specific	Common	Common	Common	Common	Common	Project-Specific	Model File Name
5												
6	Project-specific	Common	Project-specific	Common	Common		Common	Common	Common	Common		CE1314-ACM-C4_HWS-UP-RD_PV-M3_N
7	Project-specific	Common	Project-specific	Common	Common		Common	Common	Common	Common		CE1314-ACM-C4_HWS-UP-ST-M3_N
8	Project-specific	Common	Project-specific	Common	Common		Common	Common	Common	Common		CE1314-ACM-C4_RD-XX-RD_PV-M3_N
9	Project-specific	Common	Project-specific	Common	Project-specific		Common	Common	Common	Common		CE1314-ACM-C4_RD-XX-RD_PV-M3_N
10	Project-specific	Common	Project-specific	Common	Common		Common	Common	Common	Common		CE1314-ACM-C4_HWS-BG-LA-M3_N
11	Project-specific	Common	Project-specific	Common	Common		Common	Common	Common	Common		CE1314-ACM-C4_HWS-BG-LA-M3_N
12	Project-specific	Common	Project-specific	Common	Common		Common	Common	Common	Common		CE1314-ACM-C4_GE-XX-SL-M3_N
13	Project-specific	Common	Project-specific	Common	Common		Common	Common	Common	Common		CE1314-ACM-C4_GE-XX-SL-M3_N
14	Project-specific	Common	Project-specific	Common	Common		Common	Common	Common	Common		CE1314-ACM-C4_RD-XX-RD_CT-M3_N
15	Project-specific	Common	Project-specific	Common	Common		Common	Common	Common	Common		CE1314-ACM-C4_RD-XX-RD_LG-M3_N
16	Project-specific	Common	Project-specific	Common	Common		Common	Common	Common	Common		CE1314-ACM-C4_HWS-BG-RD_LG-M3_N
17	Project-specific	Common	Project-specific	Common	Project-specific		Common	Common	Common	Common		CE1314-ACM-C4_HWS-BG-RD_PV-M3_N
18	Project-specific	Common	Project-specific	Common	Common		Common	Common	Common	Common		CE1314-ACM-C4_GE-XX-SL_RW-M3_N
19	Project-specific	Common	Project-specific	Common	Common		Common	Common	Common	Common		CE1314-ACM-C4_PS-XX-PS-M3_N
20	Project-specific	Common	Project-specific	Common	Common		Common	Common	Common	Common		CE1314-ACM-C4_HWS-BG-RD_DR-M3_N
21	Project-specific	Common	Project-specific	Common	Common		Common	Common	Common	Common		CE1314-ACM-C4_SD-XX-SD-M3_N
22	Project-specific	Common	Project-specific	Common	Common		Common	Common	Common	Common		CE1314-ACM-C4_WS-XX-FW-M3_N
23	Project-specific	Common	Project-specific	Common	Common		Common	Common	Common	Common		CE1314-ACM-C4_FO-XX-FO-M3_N
24	Project-specific	Common	Project-specific	Common	Common		Common	Common	Common	Common		CE1314-ACM-C4_WS-XX-SW-M3_N
25	Project-specific	Common	Project-specific	Common	Common		Common	Common	Common	Common		CE1314-ACM-C4_WS-XX-SW-M3_N

- 2.7. On the “Field 4.1” and “Field 5.2” worksheets, the cells with grey font colour are input with formulas for generating the drop-down lists. They should not be modified, cleared or deleted.

Figure App XI-7 – Example of Cells with Grey Font Colour

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2		Field 4.1 : Location ID														
3	Drop-down Menu	Abbreviation	Description	Volume												
4	RDW1 - Road W1	RDW1	Road W1	C1												
5	SRHO - Special Residential Home Ownership Scheme Area	SRHO	Special Residential Home Ownership Scheme Area	C1												
6	A6 - Road A6	A6	Road A6	C2												
7	A100 - Road A100	A100	Road A100	C2												
8	CYT - Cycle Track	CYT	Cycle Track	C2												
9	VRE - Village Resite Area	VRE	Village Resite Area	C2												
10	BW - Boardwalk	BW	Boardwalk	C3												
11	STO1 - Structure	STO1	Structure	C3												
12	SSO1 - Storage Shed	SSO1	Storage Shed	C3												
13	WAS - Wa Shan	WAS	Wa Shan	C3												
14	CYT - Cycle Track	CYT	Cycle Track	C4												
15	FBF4 - Footbridge F4	FBF4	Footbridge F4	C4												
16	FBF6 - Footbridge F6	FBF6	Footbridge F6	C4												
17	MSR - Ma Sik Road	MSR	Ma Sik Road	C4												
18	RO - Roundabout	RO	Roundabout	C4												
19	MWRV - Ma Wat River	MWRV	Ma Wat River	C6												
20	HOLF - Home of Loving Faithfulness	HOLF	Home of Loving Faithfulness	C7												
21	AB - Administration Building	AB	Administration Building	A11												
22	AC - Ancillary Block	AC	Ancillary Block	A11												
23	AET - Aerobic Tank	AET	Aerobic Tank	A11												
24	ANT - Anaerobic Tank	ANT	Anaerobic Tank	A11												
25	ASPS - Activated Sludge Pumping Station	ASPS	Activated Sludge Pumping Station	A11												
26	AXT - Anoxic Tank	AXT	Anoxic Tank	A11												
27	BB - Barrack/ Bungalow	BB	Barrack/ Bungalow	A11												
28	BD - Building	BD	Building	A11												
29	BG - Bridge	BG	Bridge	A11												
30	BOC - Box Culvert	BOC	Box Culvert	A11												
31	BR - Bioreactor	BR	Bioreactor	A11												
32	CAP - Car Park	CAP	Car Park	A11												
33	CEPT - Chemical Enhanced Primary Treatment Works	CEPT	Chemical Enhanced Primary Treatment Works	A11												
34	CHL - Channel	CHL	Channel	A11												
35	CL - Clarifier	CL	Clarifier	A11												
36	CLS - Collection Site	CLS	Collection Site	A11												
37	CMH - Chemical House	CMH	Chemical House	A11												
38	CS - Chlorination Station	CS	Chlorination Station	A11												
39	CSF - Coarse Screen Facility	CSF	Coarse Screen Facility	A11												
40	CWS - Chemical Waste Store	CWS	Chemical Waste Store	A11												
41	DF - DAF	DF	DAF	A11												
42	DG - Dangerous Goods Store	DG	Dangerous Goods Store	A11												