



發展局
Development Bureau

BIM HARMONISATION GUIDELINES FOR WORKS DEPARTMENTS

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Appendix X – Common Codes for Information Container ID Fields

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Table App X-1 Abbreviation Codes for Field 3.2 – System

Sorted by Codes

Codes	Definition	Currently Used By (For internal reference only)
BD	Building	None
DCS	District Cooling System	None
FO	Sewerage	None
GE	Geotechnical	None
GS	Gas Supply ¹	None
HWS	Highway Structures	None
LA	Landscape ²	None
PM	Ports and Marine	None
PS	Electrical Power Supply ³	None
RD	Road	None
RWS	Railway Structures	HyD
SD	Stormwater Drainage	None
SI	General Site Information (including existing condition)	None
TC	Telecommunication ⁴	None
TS	Traffic Control Specialised System	None
WS	Water Supply	None
ZZ	Multiple systems for combined model	ISO UK Annex

¹ For example, Towngas

² Landscape is a system when it is used to define the all elements within a boundary of a country park, neighbourhood park, etc. It would contain both landscape discipline models and models of structures within these parks. (When “Landscape” is a discipline, it deals specifically with landscape elements such as hardscape, softscape, planting, landscape features, etc.)

³ For example, CLP (China Light and Power), HK Electric

⁴ For example, Smartone, HKT, HKBN, PCCW etc.

Table App X-2 Abbreviation Codes for Field 4.1 – Location

Sorted by Location ID

Location ID	Definition	Currently Used By (For internal reference only)
AB	Administration Building	WSD
AC	Ancillary Block	First Phase Development of KTH and FLN NDA (KTH/ FLNNDA)
AET	Aerobic Tank	DSD
ANT	Anaerobic Tank	DSD
ASPS	Activated Sludge Pumping Station	DSD
AXT	Anoxic Tank	DSD
BB	Barrack/ Bungalow	WSD
BD	Building	WSD
BG	Bridge	WSD
BOC	Box Culvert	DSD
BRC	Bioreactor	DSD
CAP	Car Park	DSD
CEPT	Chemical Enhanced Primary Treatment Works	DSD
CHL	Channel	DSD
CL	Clarifier	WSD
CLS	Collection Site	KTH/ FLNNDA
CMH	Chemical House	WSD
CS	Chlorination Station	WSD
CSF	Coarse Screen Facility	DSD
CWS	Chemical Waste Store	DSD
DF	DAF	WSD
DG	Dangerous Goods Store	WSD
DM	Dam	WSD
DQ	Staff Quarters	WSD
DS	Desalination Plant	WSD
DTR	Detritor	DSD
DUN	Drainage Tunnel	DSD
DWFI	Dry Weather Flow Interceptor	DSD
EC	Customer Enquiry Centre	WSD
EPS	Effluent Pumping Station	DSD
ERS	Egretty Site	KTH/ FLNNDA
ESP	Engineering Survey Products	DSD
FB	Footbridge	KTH/ FLNNDA
FP	Footpath	KTH/ FLNNDA
FR	Filter	WSD

Location ID	Definition	Currently Used By (For internal reference only)
FSF	Fine Screen Facility	DSD
FST	Final Sedimentation Tank	DSD
FWAB	Fresh Water Pumping Station - Annex Building	WSD
FWHB	Fresh Water Pumping Station - HEC Building	WSD
FWPH	Fresh Water Pump House	WSD
FWPH	Fresh Water Pumping Station - Pump Hall	WSD
FWPS	Fresh Water Pumping Station	WSD
FWSR	Fresh Water Service Reservoir	WSD
FWWT	Fresh Water Water Tank	WSD
GP	Grey Water Treatment Plant	WSD
GTF	Grit Trap Facility	DSD
IPS	Inlet Pumping Station	DSD
LB	Laboratory	WSD
LC	Logistic Centre	WSD
MAS	Maintenance Access	DSD
MAST	Major Secondary Treatment Works	DSD
MB	Management Office Building	KTH/ FLNND
MBBR	Moving Bed Biofilm Reactor	DSD
MIST	Minor Secondary Treatment Works	DSD
MK	Market	KTH/ FLNND
ML	Mainlaying	WSD
NE	Noise Barrier / Enclosure	HyD
NUL	Nullah	DSD
OF	Office	WSD
PD	Podium	HyD
PG	Playground	KTH/ FLNND
PPB	Pipe Bridge	DSD
PST	Primary Sedimentation Tank	DSD
PSTW	Preliminary / Screening Treatment Works	DSD
PTW	Primary Treatment Works	DSD
PUH	Pump House	DSD
RCP	Refuse Collection Point	KTH/ FLNND
RD	Road	KTH/ FLNND
RH	Recorder House	WSD
RM	Rising Main	DSD
ROF	Reverse Osmosis Facility	DSD
RP	Water Reclamation Plant	WSD

Location ID	Definition	Currently Used By (For internal reference only)
RS	Reservoir	WSD
RWPH	Raw Water Pump House	WSD
RWPS	Raw Water Pumping Station	WSD
RWSR	Raw Water Service Reservoir	WSD
RWWT	Raw Water Water Tank	WSD
SAA	Storage Area	DSD
SB	Subway	KTH/ FLNND
SBO	Submarine Outfall	DSD
SCT	Sludge Consolidation Tank	DSD
SDH	Sludge Dewatering House	DSD
SDR	Sludge Digester	DSD
SDT	Sedimentation Tank	WSD
SG	Sign Gantry	HyD
SL	Sludge Thickening Tank	WSD
SLPS	Sludge Pumping Station	DSD
SmPS	Stormwater Pumping Station	DSD
SP	Spillway	WSD
SPS	Sewage Pumping Station	DSD
SPV	Solar PV Farm	DSD
SST	Secondary Sedimentation Tank	DSD
STH	Sludge Thickening House	DSD
STT	Storage Tank	DSD
SUN	Sewage Tunnel	DSD
SV	Service Block	KTH/ FLNND
SWAB	Salt Water Pumping Station - Annex Building	WSD
SWHB	Salt Water Pumping Station - HEC Building	WSD
SWPH	Salt Water Pump House	WSD
SWPH	Salt Water Pumping Station - Pump Hall	WSD
SWPS	Salt Water Pumping Station	WSD
SWSR	Salt Water Service Reservoir	WSD
SWSR	Salt Water Service Reservoir	WSD
SWWT	Salt Water Water Tank	WSD
TA	Tunnel Alignment	WSD
TER	Terrain	DSD
TFR	Trickling Filter	DSD
TL	Toilet	KTH/ FLNND
TMR	Transformer Room	DSD
TNS	Tunnel Shaft	WSD
TP	Tunnel Portal	WSD

Location ID	Definition	Currently Used By (For internal reference only)
TS	Tram Shelter	HyD
TT	Tunnel Shaft Tower	WSD
TTW	Tertiary Treatment Works	DSD
TUN	Tunnel	WSD
TW	Treatment Works	WSD
TX	Transformer Room	WSD
UP	Underpass	KTH/ FLNND
UUS	Utilities	DSD
UVF	UV disinfection facility	DSD
VC	Visitor Centre	KTH/ FLNND
WC	Walkway Cover	KTH/ FLNND
WRPH	Recycled Water Pump House	WSD
WRPS	Recycled Water Pumping Station	WSD
WRS	Water Rehabilitation System	DSD
WRSR	Recycled Water Service Reservoir	WSD
WRWT	Recycled Water Water Tank	WSD
WS	Water Selling Kiosk	WSD
WSH	Water Sampling House	DSD
WTW	Water Treatment Works	WSD
XX	Non-specific location	ISO UK Annex
ZZ	Multiple locations for combined model	ISO UK Annex

Table App X-3 Abbreviation Codes for Field 4.2 – Sub-location

Sorted by Location ID

Location ID	Definition	Currently Used By (For internal reference only)
AB	Administration Building	WSD
AC	Ancillary Block	KTH/ FLNNDA
BB	Barrack/ Bungalow	WSD
BD	Building	WSD
BG	Bridge	WSD
CL	Clarifier	WSD
CS	Chlorination Station	WSD
DF	DAF	WSD
DG	Dangerous Goods Store	WSD
DM	Dam	WSD
DQ	Staff Quarters	WSD
DS	Desalination Plant	WSD
E	East Wing	EMSD
EC	Customer Enquiry Centre	WSD
EP	Extend Platform	HyD
FR	Filter	WSD
GP	Grey Water Treatment Plant	WSD
K1	Block 1	EMSD
K2	Block 2	EMSD
LB	Laboratory	WSD
LC	Logistic Centre	WSD
LE	Lift / Escalator Structure	HyD
MB	Management Office Building	KTH/ FLNNDA
MK	Market	KTH/ FLNNDA
ML	Mainlaying	WSD
N	North Wing	EMSD
OF	Office	WSD
PG	Playground	KTH/ FLNNDA
RH	Recorder House	WSD
RM	Rising Main	DSD
RP	Water Reclamation Plant	WSD
RS	Reservoir	WSD
S	South Wing	EMSD
SL	Sludge Thickening Tank	WSD
SP	Spillway	WSD
SV	Service Block	KTH/ FLNNDA
T1	Tower 1	EMSD
T2	Tower 2	EMSD

Location ID	Definition	Currently Used By (For internal reference only)
TA	Tunnel Alignment	WSD
TL	Toilet	KTH/ FLNNDA
TP	Tunnel Portal	WSD
TS	Tunnel Shaft	HyD
TT	Tunnel Shaft Tower	WSD
TW	Treatment Works	WSD
TX	Transformer Room	WSD
VC	Visitor Centre	KTH/ FLNNDA
W	West Wing	EMSD
WS	Water Selling Kiosk	WSD
XX	Non-specific location	ISO UK Annex
ZZ	Multiple locations for combined model	ISO UK Annex

Table App X-4 Abbreviation Codes for Field 4.2 – Sub-location (Levels)

Sorted by Level Height

Codes	Definition	Currently Used By (For internal reference only)
B2	Basement Level 2	ISO UK Annex, ArchSD, DSD
B1	Basement Level 1	ISO UK Annex, ArchSD, DSD
LG	Lower Ground Floor	ArchSD
GF	Ground Floor	ArchSD
UG	Upper Ground Floor	ArchSD
ES	Reference level from engineering survey	DSD
01	Level 01	ISO UK Annex
02	Level 02	ISO UK Annex
...	2-digital level number	ISO UK Annex
99	Level 99	ISO UK Annex
MF	Mezzanine Floor	ArchSD
M1	Mezzanine above level 01	ISO UK Annex
M2	Mezzanine Above Level 02	ISO UK Annex
PL	Podium Level	ArchSD
RF	Roof	ArchSD, DSD
UR	Upper Roof	ArchSD
WB	Whole Building	DSD
AL	All levels (of a specific building zone)	ArchSD

Table App X-5 Abbreviation Codes for Field 5.1 – Discipline

Sorted by Codes

Codes	Definition	Currently Used By (For internal reference only)	Underground Utilities (UU) / Above-grade (AG)
AR	Architectural	ArchSD, CIC, DSD	AG
BS	Building Services	ArchSD, DSD	AG
CD	Chilled Water Distribution	None	UU
CV	Marine Civil Model	CEDD	AG
EL	Electrical	DSD	AG
FN	Fender System	CEDD	AG
FO	Sewerage	None	UU
FS	Fire Services	CIC	AG
FW	Fresh Water System	WSD	UU
GS	Gas Supply ¹	None	UU
IR	Irrigation	None	UU
LA	Landscape ²	CIC	AG
ME	Mechanical	DSD	AG
PS	Electrical Power Supply ³	None	UU
RD	Road	None	AG
RW	Raw Water System	WSD	UU
SD	Stormwater Drainage / Underfloor Drainage	WSD	UU
SF	Site Formation	None	AG
SL	Slope	None	AG
ST	Structural	CIC, DSD	AG
SW	Salt Water System	WSD	UU
TC	Telecommunication ⁴	None	UU
TS	Traffic Control Specialised System	CEDD	AG
WR	Recycled Water System	WSD	UU
XX	General (non-disciplinary)	None	N/A
ZZ	Multiple disciplines for combined model	ArchSD	N/A

¹ For example, Towngas

² Landscape is a discipline when deals specifically with landscape elements such as hardscape, softscape, planting, landscape features, etc. (When Landscape is a system, it is used to define the all elements within a boundary of a country park, neighbourhood park, etc. It would contain both landscape discipline models and models of structures within these parks.)

- ³ For example, CLP (China Light and Power), HK Electric
- ⁴ For example, Smartone, HKT, HKBN, PCCW etc.

Table App X-6 Abbreviation Codes for Field 5.2 – Sub-discipline

Sorted by Revamped Discipline and then Sub-discipline Code

Discipline		Sub-discipline Known Codes	Definition	Currently Used By (For internal reference only)
Code	Definition			
AR	Architectural	CW	Curtain Wall	CIC, ArchSD
		CL	Ceiling	CIC
		EW	External Work	ArchSD
		FE	Furniture and Fixed Equipment	CIC
		FL	Flooring	CIC
		MW	Metal Works	ArchSD
BS	Building Services	AU	Audio Electronics System	EMSD
		AV	Audio Video System	EMSD
		BA	Burglar Alarm	EMSD
		BL	Boiler System	EMSD
		BR	Broadcast Reception	EMSD
		CC	Closed Circuit TV System	EMSD
		DR	Drainage	EMSD
		EG	Emergency Generator	EMSD
		EL	Electrical Distribution	EMSD
		FP	Filtration Plant	EMSD
		HA	Heating, ventilation, and air conditioning	EMSD
		LD	Water Leakage Detection System	EMSD
		LE	Lift & Escalator	EMSD
		LG	Lighting	EMSD
		LV	LV Switchboard	EMSD
		ML	Microwave Link System	EMSD
		PL	Plumbing	EMSD
		PT	Pneumatic Tube Transport	EMSD
		RN	Radar and Navigation System	EMSD
		RS	Radio System	EMSD
		TD	Timing & Display System	EMSD
		UP	Uninterrupted Power Supply	EMSD

Discipline		Sub-discipline Known Codes	Definition	Currently Used By (For internal reference only)
Code	Definition			
CD	Chilled Water Distribution	N/A	N/A	N/A
CV	Marine Civil	N/A	Furniture within marine facilities	CEDD
EL	Electrical	N/A	N/A	DSD
FN	Fender System	N/A	Fender System	CEDD
FO	Sewerage	N/A	N/A	N/A
FS	Fire Services	N/A	N/A	CIC
FW	Fresh Water System	PP	Pipe Support	WSD
		TB	Thrust Block	WSD
		WM	Water Mains	WSD
GS	Gas Supply	N/A	N/A	N/A
IR	Irrigation	N/A	N/A	N/A
LA	Landscape	CT	Compensatory Tree	N/A
		GC	Groundcover	N/A
		RT	Retained Tree	N/A
		SH	Shrubs	N/A
		TR	Transplanted Tree	N/A
		VE	Vegetative Slope	N/A
ME	Mechanical	N/A	N/A	DSD
PS	Electrical Power Supply	N/A	N/A	N/A
RD	Road	CT	Cycle Track	HyD
		DR	Road Drainage	HyD
		HL	High Mast / High Bay Lighting	HyD
		LG	Road Lighting	HyD
		NB	Noise Barrier	N/A
		PV	Pavement	N/A
		RF	Road Furniture	N/A
		TA	Traffic Aids	HyD
RW	Raw Water System	PP	Pipe Support	WSD
		TB	Thrust Block	WSD
		WM	Water Mains	WSD
SD	Stormwater Drainage / Underfloor Drainage	SB	Sub-soil Drain / Underfloor Drainage	WSD
		SD	Surface Drainage	CEDD GEO, WSD

Discipline		Sub-discipline Known Codes	Definition	Currently Used By (For internal reference only)
Code	Definition			
SF	Site Formation	GI	Ground Investigation	ArchSD
SL	Slope	BO	Rock Bolt	CEDD GEO
		BP	Bored Pile Wall	N/A
		BU	Buttress	CEDD GEO
		BW	Baffle Wall	CEDD GEO
		CB	Concrete Berm	CEDD GEO
		DS	Ground Surface	CEDD GEO
		DW	Dowel	CEDD GEO
		FB	Flexible Barrier	CEDD GEO
		GI	Geological	CEDD GEO
		GS	Grillage System	CEDD GEO
		GW	Gabion Wall	CEDD GEO
		MA	Maintenance Access	CEDD GEO
		MW	Masonry Wall	CEDD GEO
		PG	Planting	N/A
		PW	Planter Wall	CEDD GEO
		RB	Rigid Barrier	CEDD GEO
		RW	Retaining Wall	CEDD GEO
		SD	Surface Drainage	CEDD GEO, WSD
		SN	Soil Nail	CEDD GEO
ST	Structural	BG	Bridge	WSD
		DM	Dam	WSD
		FD	Foundation	CEDD GEO
		LE	Structural Frame for Lift Tower and Escalator	N/A
		NB	Noise Barrier	N/A
		NE	Noise Barrier / Enclosure	HyD
		PC	Pile Cap	ArchSD
		PW	Planter Wall (within building structure)	ArchSD
		RC	Reinforced Concrete	CIC, WSD
		RW	Retaining Structure	ArchSD
		SC	Staircase	N/A
		SS	Structural Steel	WSD
		SU	Superstructure	WSD
		TU	Tunnel	HyD
SW	Salt Water System	PP	Pipe Support	WSD
		TB	Thrust Block	WSD
		WM	Water Mains	WSD

Discipline		Sub-discipline Known Codes	Definition	Currently Used By (For internal reference only)
Code	Definition			
TC	Telecommunication	N/A	N/A	N/A
TS	Traffic Control Specialised System	TV	Tunnel Ventilation System	CEDD
		FS	Tunnel Fire Services System	CEDD
		TS	Traffic Control and Surveillance System	CEDD
WR	Recycled Water System	PP	Pipe Support	WSD
		TB	Thrust Block	WSD
		WM	Water Mains	WSD
XX	General (non-disciplinary)	N/A	N/A	N/A
ZZ	Multiple disciplines for combined model	N/A	N/A	N/A

Table App X-7 Abbreviation Codes for Field 6.1 – Type

Sorted by Codes

Codes	Definition	Currently Used By
AF	Animation File (of a model)	ISO UK Annex
BQ	Bill of Quantities	ISO UK Annex
CA	Calculations	ISO UK Annex
CM	Combined Model (Combined Multidiscipline Model)	ISO UK Annex
CO	Correspondence	ISO UK Annex
CP	Cost Plan	ISO UK Annex
CR	Clash Rendition	ISO UK Annex
DB	Database	ISO UK Annex
DD	Drawing – Detail	Modified from CSWP View Field (D)
DE	Drawing – Elevation	Modified from CSWP View Field (E)
DI	Drawing – Isometric	Modified from CSWP View Field (I)
DP	Drawing – Plan	Modified from CSWP View Field (P)
DR	2D Drawing Rendition (General)	ISO UK Annex
DS	Drawing – Section	Modified from CSWP View Field (S)
FN	File note	ISO UK Annex
HS	Health & Safety	ISO UK Annex
IE	Information Exchange File	ISO UK Annex
L	Link File	DSD, HyD
M2	2D Model File	ISO UK Annex
M3	3D Model File	ISO UK Annex
MI	Minutes / Action Notes	ISO UK Annex
MR	Model Rendition File (for Example Thermal Analysis)	ISO UK Annex
MS	Method Statement	ISO UK Annex
PP	Presentation	ISO UK Annex
PR	Programme	ISO UK Annex
RD	Room data sheet	ISO UK Annex
RI	Request for information	ISO UK Annex
RP	Report	ISO UK Annex
SA	Schedule of accommodation	ISO UK Annex
SC	SCCU Submission	ArchSD
SD	Dangerous Goods Submission	ArchSD
SF	FSD Submission	ArchSD
SH	Schedule	ISO UK Annex
SI	Site Instruction Drawing	ArchSD
SK	Sketch	ISO UK Annex
SN	Snagging list	ISO UK Annex

Codes	Definition	Currently Used By
SO	Design Options	ArchSD
SP	Specification	ISO UK Annex
ST	Tender Drawing	ArchSD
SU	Survey	ISO UK Annex
VS	Visualisation of a model	ISO UK Annex

Table App X-8 Abbreviation Codes for Field 6.2 – Characteristic

Sorted by Codes

Codes	Definition	Currently Used By
A	As-built	ArchSD, CSWP
D	Demolition	ArchSD
E	Existing, to remain	ArchSD, CSWP, DSD
M	Maintenance or record	ArchSD, CSWP, DSD
N	New Works/ Proposed Works	ArchSD, CSWP, DSD
T	Temporary Works	ArchSD, CSWP, DSD
W	All Works (combination of above works)	ArchSD, CSWP