



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 |
| 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/ FLNNDA |
| MBBR | Moving Bed Biofilm Reactor | DSD |
| MIST | Minor Secondary Treatment Works | DSD |
| MK | Market | KTH/ FLNNDA |
| ML | Mainlaying | WSD |
| NUL | Nullah | DSD |
| OF | Office | WSD |
| PG | Playground | KTH/ FLNNDA |
| 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/ FLNNDA |
| RD | Road | KTH/ FLNNDA |
| RH | Recorder House | WSD |
| RM | Rising Main | DSD |
| ROF | Reverse Osmosis Facility | DSD |
| RP | Water Reclamation Plant | WSD |
| RS | Reservoir | WSD |
| RWPH | Raw Water Pump House | WSD |

| Location ID | Definition | Currently Used By (For internal reference only) |
|--------------------|---|--|
| 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/ FLNNDA |
| SBO | Submarine Outfall | DSD |
| SCT | Sludge Consolidation Tank | DSD |
| SDH | Sludge Dewatering House | DSD |
| SDR | Sludge Digester | DSD |
| SDT | Sedimentation Tank | WSD |
| 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/ FLNNDA |
| 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/ FLNNDA |
| TMR | Transformer Room | DSD |
| TNS | Tunnel Shaft | WSD |
| TP | Tunnel Portal | WSD |
| TT | Tunnel Shaft Tower | WSD |
| TTW | Tertiary Treatment Works | DSD |
| TUN | Tunnel | WSD |

| Location ID | Definition | Currently Used By (For internal reference only) |
|--------------------|---------------------------------------|--|
| 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/ FLNND |
| 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 |
| FR | Filter | WSD |
| GP | Grey Water Treatment Plant | WSD |
| K1 | Block 1 | EMSD |
| K2 | Block 2 | EMSD |
| LB | Laboratory | WSD |
| LC | Logistic Centre | WSD |
| MB | Management Office Building | KTH/ FLNND |
| MK | Market | KTH/ FLNND |
| ML | Mainlaying | WSD |
| N | North Wing | EMSD |
| OF | Office | WSD |
| PG | Playground | KTH/ FLNND |
| 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/ FLNND |
| T1 | Tower 1 | EMSD |
| T2 | Tower 2 | EMSD |
| TA | Tunnel Alignment | WSD |
| TL | Toilet | KTH/ FLNND |

| Location ID | Definition | Currently Used By (For internal reference only) |
|--------------------|---------------------------------------|--|
| TP | Tunnel Portal | WSD |
| 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 |
| | | 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 |
| SF | Site Formation | GI | Ground Investigation | ArchSD |
| SL | Slope | BO | Rock Bolt | CEDD GEO |

| Discipline | | Sub-discipline Known Codes | Definition | Currently Used By (For internal reference only) |
|------------|---|-------------------------------|---|---|
| Code | Definition | | | |
| | | 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 |
| | | 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 |
| SW | Salt Water System | SU | Superstructure | WSD |
| | | PP | Pipe Support | WSD |
| | | TB | Thrust Block | WSD |
| TC | Telecommu- nication | WM | Water Mains | WSD |
| | | N/A | N/A | N/A |
| TS | Traffic Control Specialised System | N/A | N/A | N/A |
| | | TV | Tunnel Ventilation System | CEDD |
| | | FS | Tunnel Fire Services System | CEDD |

| Discipline | | Sub-discipline Known Codes | Definition | Currently Used By (For internal reference only) |
|-------------------|--|---------------------------------------|--|--|
| Code | Definition | | | |
| | | 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 |