ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4) L71162 – SUPPLY PIPES

Document Number: **CRL1-XRL-Z3-ADDSD-CR001-50084**

Document Revision: **11.0**

Document History:

Revision:	Date:	Prepared by:	Checked by:	Authorised by:	Reason for Issue:
1.0	09-Nov-2012	[redacted]	[redacted]	[redacted]	First Issue
2.0	11-Oct-2013	[redacted]	[redacted]	[redacted]	Standardisation of Attribute Names and New Branding
3.0	03-Jun-2014	[redacted]	[redacted]	[redacted]	Asset Tag Identification Section Updated
4.0	19-Sep-2014	[redacted]	[redacted]	[redacted]	Approvals Added Consultations Removed
5.0	10-Feb-2015	Kemi Olawale	[redacted]	[redacted]	Attribute Added
6.0	27-Aug-2015	[redacted]	[redacted]	[redacted]	Labelling Section Updated
7.0	15-Dec-2015	[redacted]	[redacted]	[redacted]	Asset Identification Rules Updated
8.0	18-Feb-2016	[redacted]	[redacted]	[redacted]	Attributes updated Minor grammatical changes
9.0	01-Apr-2016	[redacted]	[redacted]	[redacted]	Attributes removed
10.0	22-Mar-2017	[redacted]	[redacted]	[redacted]	Attributes added
11.0	19-Apr-2017	[redacted]	[redacted]	[redacted]	Defined Value Added

This document contains proprietary information. No part of this document may be reproduced without prior written consent from the chief executive of Crossrail Ltd.

Learning Legacy Document

Document uncontrolled once printed. All controlled documents are saved on the CRL Document System

© Crossrail Limited RESTRICTED

Contents

1 Introduction **3**
1.1 Asset Details **3**
1.2 Description **3**
1.3 Related Functions **3**
2 Asset Tag Identification Rules **3**
2.1 Example Images **6**
3 Attributes **7**
3.1 Generic Attributes **7**
3.2 Class Specific Attributes **7**
4 Performance Data **9**
5 Labelling **9**
6 Other Information **9**
7 Reference Material **9**
8 Crossrail Technical Approvals **10**

Learning Legacy Document

Document uncontrolled once printed. All controlled documents are saved on the CRL Document System
© Crossrail Limited RESTRICTED

1 Introduction

1.1 Asset Details

Class Code: L71162

Class Name: Supply pipes

Class Lineage: Construction Products>Services>Supply-storage-distribution of liquids and gases>Water and general supply-storage-distribution>Pipes and pipework for water supply-distribution>Supply pipes

1.2 Description

This class of asset covers any single length of pipe designed to distribute or supply a medium.

1.3 Related Functions

All information on the configuration of asset classes (L-Class) to functions is contained within the latest revision of the Asset Data Dictionary Master Configuration document (eB ref: CRL1-XRL-Z3-ADDSD-CR001-50186)

2 Asset Tag Identification Rules

Assets will be identified as required by the Asset Identification Standard (CRL1-XRL-O6-STD-CR001-00031) in the following format:

<LCS Code>-<Function Code>-<Incremental number to ensure uniqueness>

e.g. CR076-BAF-12345

Information and guidance on the standard naming convention for all asset classes is contained within the latest revision of the Asset Naming Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

Learning Legacy Document

Document uncontrolled once printed. All controlled documents are saved on the CRL Document System

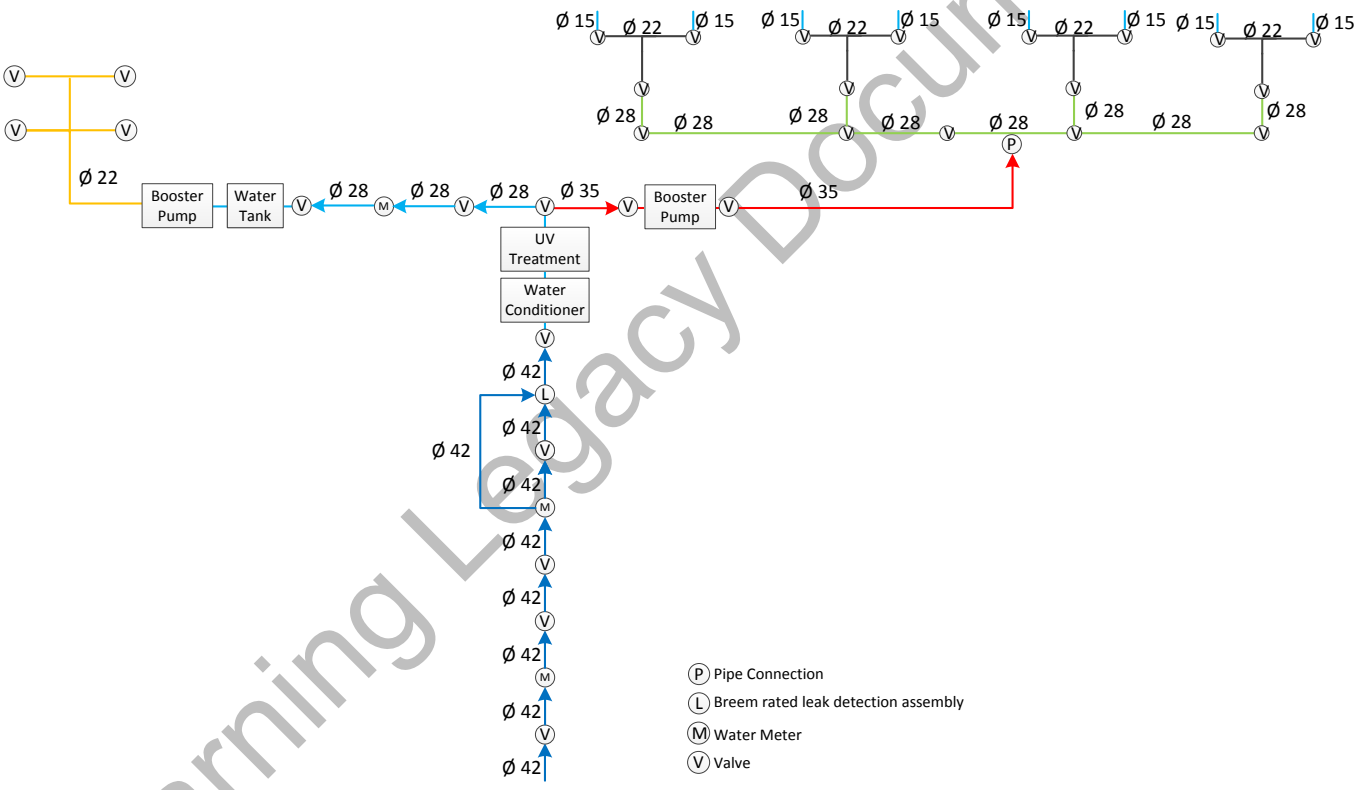
© Crossrail Limited RESTRICTED

A new tag for a water service pipe is only required under the following circumstance:

- Change in diameter
- Change in material
- Pipework intrudes another asset (e.g. valve, manhole, etc.)

Note: A new tag is NOT required when a pipe of a similar diameter splits (e.g. to feed various bib taps).

Using the above guidance the following diagram has been developed for the water distribution pipe work in the WTH, using the Dean Street / Western Ticket Hall Water Service Schematic (C422-LAO-P-DDE-N105_Z-31100) provided by the contractor.



From the above 35 pipe assets have been identified.

Learning Legacy Document

Document uncontrolled once printed. All controlled documents are saved on the CRL Document System

© Crossrail Limited RESTRICTED

Note:
Pipework between a valve and a water meter must not be individually tagged if the pipe work forms part of the product, as illustrated in Figure 1.

Figure 1 Water Meter Example Image

The contractor is also advised that labelling needs to be carefully considered and that the number of labels needed is likely to be significantly higher than the number of asset tags.

Learning Legacy Document

Document uncontrolled once printed. All controlled documents are saved on the CRL Document System
© Crossrail Limited RESTRICTED

2.1 Example Images

Document uncontrolled once printed. All controlled documents are saved on the CRL Document System
© Crossrail Limited RESTRICTED

3 Attributes

3.1 Generic Attributes

All Classes of assets will have a set of Generic Attributes for which data is collected without exception. Full details relating to these assets can be found at:

AD4 – Generic Attributes CRL1-XRL-Z3-ADDSD-CR001-50069

3.2 Class Specific Attributes

Below is a table of the further specific attributes which are associated with this asset class.

Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
External Diameter (Millimetres)	Millimetres	NU	0		The external diameter of the pipe
Insulated		PD		Yes No	Is the asset insulated?
Internal Diameter (Millimetres)	Millimetres	NU	0		The internal diameter of the pipe
Length (Metres)	Metres	NU	2		The continuous length of the pipe
Maximum Working Pressure (kPa)	kPa	NU	2		The maximum Pressure
Pipe Finish		CH			Surface finish of pipe

Learning Legacy Document

Document uncontrolled once printed. All controlled documents are saved on the CRL Document System

© Crossrail Limited RESTRICTED

Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
Pipe Material		PD		Metallic Plastic	Description of pipe material
System Fluid		PD		Chilled Water Condensate Water Domestic Water	What is the fluid within the system
Discharge Location		CH			The location description of where the effluent/waste discharges to e.g. Road name, River name, Brook name, etc.
Discharges To		PD		Atmosphere Manhole Sewer Sump Tank Watercourse	The equipment the effluent/waste discharges into
Emergency Hose		PD		Yes No	Is an emergency hose connection fitted to the pipework? This usually only applies to discharge pipework.

pd = Predefined List (Listed Values Only)
nu = Numeric (dp and number format can be stipulated)
ch = Free text (Max 255 Characters)
da = Date (dd-mm-yyyy)
me = Memo (Free text 1GB Li

Learning Legacy Document

Document uncontrolled once printed. All controlled documents are saved on the CRL Document System

© Crossrail Limited RESTRICTED

4 Performance Data

This section is to be used to specify the performance data to be gathered from this Class of asset when in operation. To be populated once the performance measures have been agreed with the Infrastructure Managers.

5 Labelling

Information and guidance on the standard labelling convention for all asset classes is contained within the latest revision of the Asset Naming and Labelling Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

6 Other Information

Not Applicable

7 Reference Material

- British Standard 1710.
- Asset Data Dictionary Master Configuration - CRL1-XRL-Z3-ADDSD-CR001-50186
- Asset Identification Standard - CRL1-XRL-O6-STD-CR001-00031
- AD4 – Generic Attributes - CRL1-XRL-Z3-ADDSD-CR001-50069
- Asset Naming Convention Document - CRL1-XR1-Z3-ADDSD-CR001-50413

Learning Legacy Document

Document uncontrolled once printed. All controlled documents are saved on the CRL Document System

© Crossrail Limited RESTRICTED

8 Crossrail Technical Approvals

Name	Role	Date
[redacted]	Lead Mechanical & Electrical Plant (MEP) Engineer	19-Sep-2014

Learning Legacy Document

Document uncontrolled once printed. All controlled documents are saved on the CRL Document System
© Crossrail Limited RESTRICTED