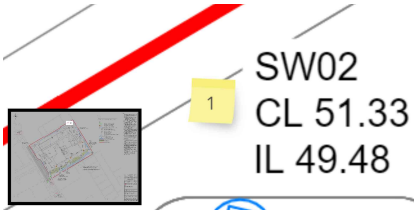
QC-EW-03B-7 · SW02-SW03

QC-EW-03 Drainage Pipework Gullies or Underground Services

External Drainage

SW02

Project Administrators · Aaron Howarth (B+K) · 4 January 2024 16:57



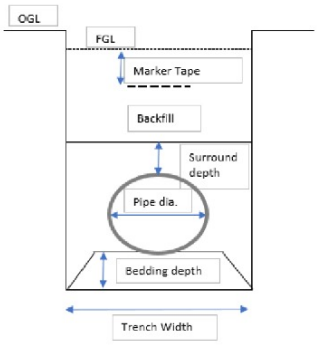
QC-EW-03 Drainage Pipework Gullies or Underground Services

Form:	QC EW 03	QUALITY CONTROL INSPECTION RECORD	BOWMER + KIRKLAND
Issue:	C	Drainage, Pipework, Gullies or Underground Services	

Project:	Ancoats Mobility Hub	Inspected By (name)	
Project No.:	63070	B+K	Aaron Howarth (B+K)
Sub-contractor:	QED Construction Ltd	SC	Brad Robinson

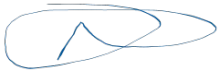
Drawings Ref:	Current Revision	Revision SC Using on Site
45306-KRD-XX-EX-DR-C-5201	C03	C03

Area	External Drainage	Location	SW02	Ref.	

Item	Description	Comments / Specification	Inspected by: SC	Inspected by: B+K	Issues
PRE-START CHECKS					
1	**Run Details:** • Trench width / depth determined for specific pipe run • Bed, surround and backfill details confirmed	**Pipe/duct dia. and type and number/layout/spacing:** 300mm Concrete **Trench width:** 700mm **Bedding material:** Pipe bedding **Bedding depth:** 200 **Surround material:** Pipe bedding **Surround depth:** 200mm **Backfill material:** as dug material **Marker tape type and depth below FGL:** N/A  *Provide alternate diagram in photo 1 slot if above diagram unsuitable*	✓	✓	
2	Dimensional and level control established	Correct to design	✓	✓	
INSTALLATION					
3	**Excavation -** Trench excavated to required depth on correct line and to correct width	Correct to design	✓	✓	
4	**Formation:** • Formation excavated immediately before laying pipe • Hard spots, mud, rock projections or boulders removed and replaced with bedding material • Local soft spots hardened by tamping in bedding material	Pipes are being laid within our Engineered ground *Photographs required.*	✓	✓	
5	**Bedding -** Correct bedding material placed to correct depth below pipe	Pipe bedding 200mm depth *Required photographs/docs/attachments in italic*	✓	✓	

6	**Pipe/duct laying and jointing:** • Correct pipes/ducts laid to correct line and level and regular gradient • Laid on even bed for full length of barrel • Sockets (if any) facing up gradient • Joints made between clean and square surfaces, chamfered and / or lubricated if required • Jointing / couplers / adaptors installed in line with manufacturers requirements • Bends installed in line with drawings and manufacturers' requirements; support / thrust blocks suitable • Any connections / branches installed at correct location and position recorded using GPS, and suitable temporary marking and protection provided • Drawcord installed to service ducts where applicable, and secured at each end of run • Building Control and Client Reps given opportunity to witness works as they progress	*Ends temporarily sealed during excavation of next section to prevent debris entering pipes* *Photographs required, in particular of bends, junctions, adaptors between different pipes* 300 mm concrete pipe No Sockets No branches No connections Drawcord not required All Drainage works have been inspected by Kamal Beckles MCC BC	✓	✓	
7	**Pipelines passing through structures e.g. manholes, inspection chambers, walls, footings:** • Rocker pipes (usually 600mm long) installed where pipes are cast through structures, • Rocker pipes installed within max specified distance from structure • Rocker pipes have flexible joints both ends	***Rocker pipes to (state structure):*** MH SW02 and SW03 ***Confirm specified length of rocker pipes:*** 600mm ***Confirm specified distance of rocker pipe from structure:*** 200mm *Required photographs/docs/attachments*	✓	✓	
8	**Surround -** Surround to pipes in line with project specification and drawings and sketch in Item 1	200mm pipe bedding *Required photographs/docs/attachments*	✓	✓	
9	**Installation of Root barriers –** confirm installed in line with manufacturer's requirements as shown on drawings and detailed in specification	Contamination barrier installed *Required photographs/docs/attachments*	✓	✓	
10	**Access Points, Gullies and Rodding Points:** • Confirm set out correctly relative to construction features and to correct level • Confirm correct material and correct surround • Connections tightly jointed • Location and level recorded using GPS • Suitable temporary protection installed until final cover placed	**Confirm what items installed:** **Confirm Surround details:** *Photographs required*	N/A	N/A	
11	**Backfill:** • Suitable backfill used dependent on location of trench (e.g. under structure, road / paving or soft landscaping) • Backfill placed in layers of suitable thickness and compacted sufficiently (No heavy compaction within specified height above pipe) • Correct warning marker tape laid at correct depth below final FGL	**Backfill material:** As dug spoil **Thickness of layers (if applicable):** 150 **Compaction equipment and note any restrictions:** ramex **Type of marker tape:** N/A *Allow time for concrete surround to cure prior to backfilling* N/A *Photographs required*	✓	✓	
12	**On-going Air Tests:** Confirm on-going air tests carried out for every few pipes laid, and confirm tests passed	Every two pipes tested	✓	✓	
13	**Installation complete:** • Confirm pipework, connections, access points etc. all checked for line and level • Confirm As Built locations recorded and confirmed as correct against Design • Confirm pipework, connections, access points etc. all suitably clean and protected against damage and ingress of dirt whilst building works completed • Confirm air tested completed successfully for the complete pipe run • Building Control given opportunity to witness final air test per run	**Air test to be witnessed by B+K; state person witnessing test:** *Photograph of air test at start and finish*	✓	✓	

Additional Documents attached				

Inspection Sign Off **All Items 1 to 13 complete**	**Date:** December 8, 2023	**Signature (SC)**	

Non-conformance issued (MPF 5.30) Raise in RDrive and link here.	Raised	Closed

Final quality check & sign-off not to be completed until NCRs have been closed

Accepted by B+K:	**B+K Manager Name**	**Signature**	**Date**
	Aaron Howarth (B+K)		January 8, 2024






TOPCON
8"
9"
10"
150 mm
200
225
250



