N0024068_E1 CO10 8PJ

CAUTION NOTE

A watching brief should be maintained for any undiscovered visual/olfactory signs of contamination.
Should these be identified, an additional assessment will be required by IWNL.

N0024068_E2 CO10 8PJ

NAV APPROVED

LOISE FARRELL 19-09-2023

This design is across multiple drawings for details please refer to all drawings.

Potable Water Notes

All mains and services must be laid using an approved PE or PE Barrier pipe. When using PE Barrier pipe all joints & fittings must be installed in accordance with the manufacturer's instructions to prevent ingress of contamination into the water pipe. Underground metal boxes must be installed using female iron couplings. All mains & services (other than 32mm/25mm services) must be installed by IWNL approved personnel only, and mains installed by non-approved personnel will not comply with water / HSE regulations and will need to be replaced.
All external pipes and internal plumbing must comply with the Water Supply (Water Fittings) Regulations 1999 Schedule 2 and the Water Supply (Water Quality) Regulations 2001.
Confirm with the designer before ordering.

PE & Barrier Pipe Specification

Up to and including 63mm PE80 (MDPE), SDR11
90mm up to 315mm PR100 (HPPE) SDR17.6

Ducting Specification

All ducts must be supplied and installed in accordance with BS4962 as a suitable standard for plastic ducting.

- Ducting can only be used for perpendicular carriageway crossings.
- Only one pipe is allowed per duct.
- For service pipe that duct must be blue and perforated along it's entire length.

Duct Sizes

Water Pipe External Diameter	Duct Inside Diameter
25mm & 32mm	50mm
63mm	150mm
90mm	150mm
110mm & 125mm	200mm
160mm & 180mm	200mm
225mm, 250mm & 315mm	400mm

All pipes, fittings and valves must meet technical specifications:

BS8437 - 1984; BS6572 - 1985; BS5306:Part 2 - 1990;
WIS 4-24-01 - 1998; WIS 4-32-08 - Issue 3: April 2002;
WIS4-32-14 - 1995; WIS 4-32-15 - 1995; WIS 4-32-17 - Issue 2 - 2001;
DIN8074 - 1999; DIN8075 - 1999; DIN16963 Part 1 - 1980;
BS EN 12201 - 2011; BS EN 13244; UNI 10910:2001

Contaminated Ground Conditions

Should the land on which the development is taking place to be contaminated, all underground pipes and fittings installed in connection with water mains and service connection will need to be of a suitable material to resist any chemical contamination and not be adversely affected by the geotechnical conditions. The developer will ensure that the service pipe material and fittings used on site are fit for purpose and suitable for use within contaminated land. In the event that contaminated land is discovered during construction then work should be stopped until a suitable risk assessment is completed and suitable protective coated materials provided to allow continuation of main laying.

Proposed Services

Developer to pre-install all services up to and including 32mm at depth of 750mm deep and not greater than 1350mm from finished surface level. If the main is installed in plastic pipe or ductile iron, or ductile iron, corresponding service pipe must also be of a barrier type.

Proposed Mains

All mains to be laid in pre-excavated trench to 900mmm cover, provided by the developer. Road crossings to be continuous plastic duct or drainage pipe sized to accomodate the mains shown on the drawing. at 900mm cover to the finished level.

	Proposed	Laid
Water Mains		
Services		
Water Mains (Incumbent)		
Ducted Pipe		
Excavated by BUUK Contractors		
Asset Boundary		
Upstream Connection		
Change of Pipe Size/Material		
Gun Metal Manifold & Chamber (With Number of Meters)		
Multi Port Box (With Number of Meters)		
Owner Area		
Exclusion Area		
PE Polyethylene	BP Barrier Pipe	DI Ductile Iron
Abandoned	To Disconnect	

Burst
Pot Booster
Non Return Valve
Wash out Hydrant
Sluice Valve
Air Valve
Fire Hydrant
Pressure Reducing Valve
Non Domestic Meter
Domestic Meter

Plan Notes

This plan shows apparatus owned by the BUUK Group. Any third party apparatus shown on this plan is provided by the BUUK Group for quality purposes only. The information shown on this plan is given without warranty, the accuracy cannot be guaranteed. No liability of any kind whatsoever is accepted by the company. Safe digging practices, in accordance with HSG47, must be used to verify and establish the actual position of mains pipes, services and other apparatus. Ordnance Survey mapping Survey on behalf of HMSO. © Crown copyright and database right 2007. All rights reserved Ordnance Survey Licence number 0100021063.

Developers Responsibility

When apparatus have been laid it becomes the responsibility of the developer to ensure that all the necessary protection work is carried out as soon as possible. Replacement and repair of damaged apparatus, including administrative costs will be fully recharged to the developer. It will be the developer's responsibility to recover the costs from the third parties.

Revision History

For a revision history of this network design please see seperate revision history document.

gtc

Independent Water Networks

Last Edit By:	
Last Approved By:	CRAIG CLAYDON 19092023
Approved	
OS Ref:	577719,245530
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