1902

Laystall street
Extension

Manchester

Drainage strategy

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Rev P01

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Drainage strategy

32-34 Laystall street (Extension), Manchester

For

McCauls

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1. Introduction

1.1. General

This Drainage Strategy has been prepared by DP Squared on behalf of McCauls for the extension development of the 32-34 Laystall street site in Manchester.

The site, located at M1 2JZ is bounded by Laystall Street, Brock street and Pigeon Street. The site at present has an existing unused showroom building with an undeveloped area to the Pigeon street side. The proposed development includes a refurbishment of the existing building into office space with an extension to the undeveloped area to be residential.

This report has been compiled to outline the proposed drainage strategy for the residential extension. The drainage strategy for the whole site is covered in the Clancy report 'Proposed drainage design strategy' 1/20445-DS-001 Rev C (dated 14/12/2020).

1.2. Consultations

See the Clancy report 'Proposed drainage design strategy' 1/20445-DS-001 Rev B (dated 5/10/2020).

1.3. Site Investigations

See the Clancy report 'Proposed drainage design strategy' 1/20445-DS-001 Rev B (dated 5/10/2020).

1.4. Existing drainage

See the Clancy report 'Proposed drainage design strategy' 1/20445-DS-001 Rev B (dated 5/10/2020).

1.5. Proposed development drainage strategy

See the Clancy report 'Proposed drainage design strategy' 1/20445-DS-001 Rev B (dated 5/10/2020).

2. Surface water

See the Clancy report 'Proposed drainage design strategy' 1/20445-DS-001 Rev B (dated 5/10/2020).

Surface water from extension roof to be connected to the new combined sewer manhole. This drainage will be installed by the main contractor on the Great places building being constructed behind the Laystall street building. An extract from the Clancy drawing 'Drainage layout' 1/21458-CCL-LS-00_DR-C-500-P2 (dated 11/11/2022) shows the position of the extension, the new manholes and the surface connection to the new diverted drainage from the existing building in figure 1.

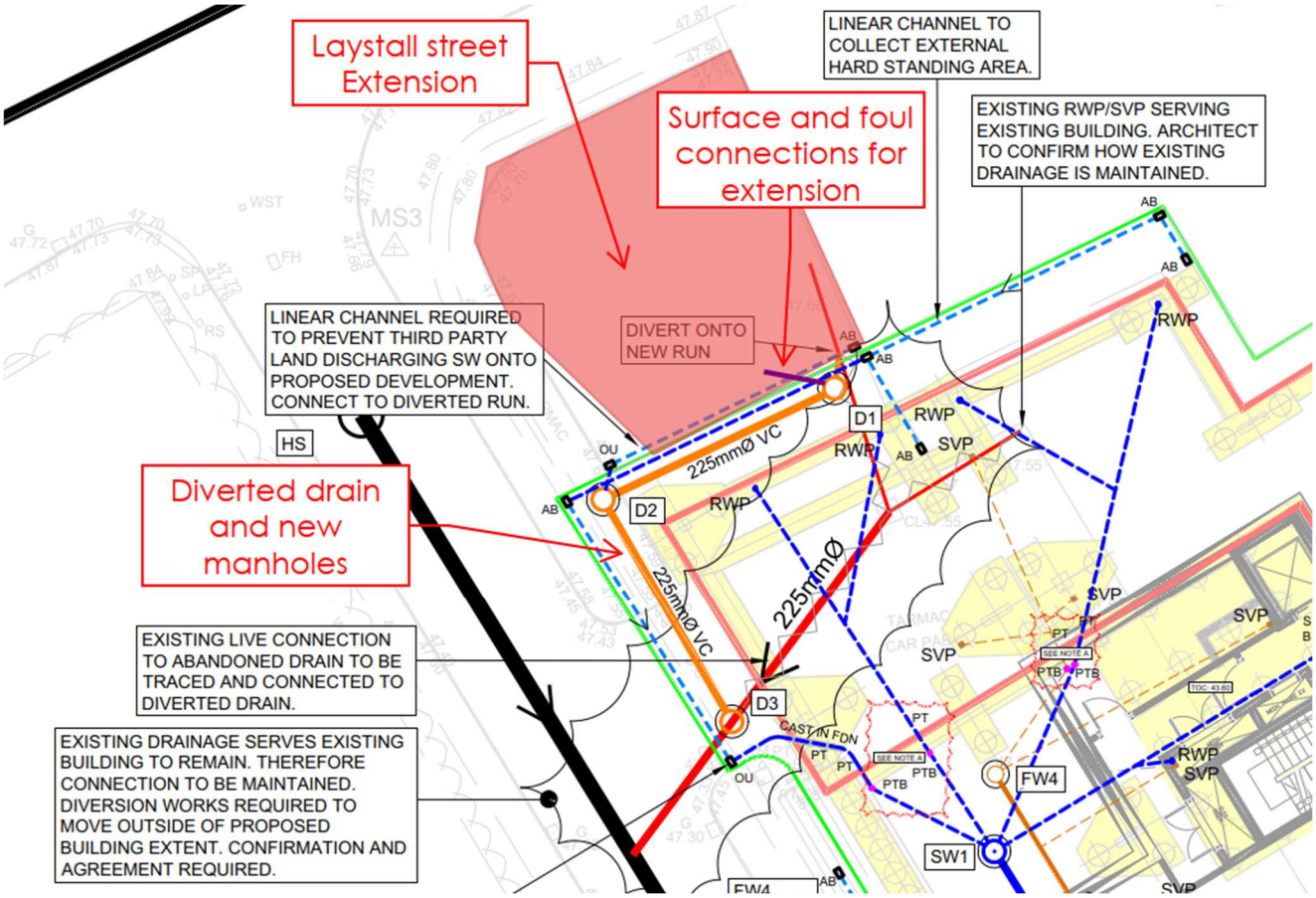

Figure 1 - Annotated extract from Clancy drainage layout

3. Foul water

See the Clancy report 'Proposed drainage design strategy' 1/20445-DS-001 Rev B (dated 5/10/2020).

Foul water from extension to be connected to the new combined sewer manhole. This drainage will be installed by the main contractor on the Great places building being constructed behind the Laystall street building. Refer to figure 1 for drainage connection.

Appliance Type	DU l/s	Number of Appliances	Total Number of Units
Wash basin, bidet	0.3	4	1.2
Shower without plug	0.4	4	1.6
Kitchen sink	1.3	4	5.2
Dishwasher (household)	0.2	4	0.8
Washing machine up to 12 kg	1.2	4	4.8
WC with 9,0 l cistern	2.0	4	8.0
Floor gully DN 100	2.0	4	8.0
		Total DU	29.6

Foul flow rate = $0.5*(29.6)^{0.5}$
= 2.7 l/s