CDM Regulations 2015

All design work has been carried out with full consideration given to health and safety. Where possible risks have been removed from the design. It is not always possible to remove all risks in the design and those remaining risks have been identified below. The contractor is responsible for ensuring these risks have been allowed for in methods of working and that only competent workers are employed to undertake these works.

DR1: Encountering existing services
DR2: Undermining of existing structures
DR3: Existing foul sewerage
DR4: Deep excavations

⚠ Indicates a residual risk

- Redline Boundary
- Existing United Utilities Surface Water Public Sewer
- Existing Private Foul Drainage Connection to Sewer (location to be confirmed)
- Proposed Surface Water Drainage
- FC — Proposed Flow Control Chamber to 5l/s
- RWP — Proposed Rainwater Downpipes
- Proposed Geocellular Attenuation Tank
- Proposed Permeable Paving with Type 3 Subbase

ATTEN1 - Geocellular Attenuation Tank
Base Invert Level 58.780
Cover Level at Tank 60.500
Void ratio 95%
Refer to schedules for further details

Permeable Paving to car park with 300mm thick Type 3 subbase for conveyance to lowest part of the site prior to connection into below ground tank via perforated pipework within the subbase(depth based on 5% CBR).

1500Ø Perforated Pipe
To collect water within permeable paving construction. Located at lowest part of the site

1500Ø Flow Through Pipework

Hydrobrake Flow Control fitted within a catch pit chamber. Maximum discharge rate 5 l/s as required by United Utilities.

New chamber built over existing outfall pipework. Approx IL 57.870

MH-S9
Approx IL 58.279
To be constructed on the line of the existing surface water public sewer. An accurate survey of pipeline to be confirmed on site prior to construction.

Location of existing services within the footway to be surveyed prior to construction to confirm final location of connection route.

0902
Invert level and incoming pipe size to be confirmed on site prior to any construction

Sub-Station

FFL: 61.250

GREENBROW ROAD

0901

Notes

1. This drawing is the copyright of Land Studio Ltd. It must no be copied or reproduced without written consent.
2. This drawing is to be read in conjunction with all relevant surveys, structural engineering and architectural drawings.
3. Third party information has been used to complete this design. Land Studio are not liable for this information.
4. Dimensions given are in millimetres unless otherwise specified.
5. Levels are in metres AOD.
6. Existing drainage locations and levels must be checked prior to any works commencing. A survey of the onsite existing drainage locations has been undertaken but final connection to the public combined sewer has not been established therefore requires confirming on site.
7. All existing drainage is to be removed entirely to make way for the new construction. The existing foul outfall pipework is to remain for discharge of foul drainage. CCTV to be undertaken to confirm connection downstream and condition is acceptable.
8. Surface water features designed to manage a 1 in 100 year (1% AEP) plus 45% climate change event without flooding off site with a discharge of 5l/s into the surface water sewer as dictated by United Utilities. Total attenuation required = 45m³
9. Foul water is designed to discharge unrestricted into the combined public sewer.
10. All surface water pipework are to be structured wall HDPE to BS EN 13476, kitemarked, agrement certifed or CE marked.
11. All surface water pipework to be minimum 150mm@1:100 below ground unless noted otherwise.
12. All pipework to be Class Z concrete encased where cover is less than 1.2m in vehicular areas, 0.9m in pedestrian areas and landscaped areas where mowing will be undertaken, and 0.6m elsewhere. Pipes of Type 3 subbase are not designed for construction traffic and therefore is to be protected during the works to ensure suitability upon handover.
13. MOT Type 3 coarse graded aggregate with 30% void ratio in accordance with Specification for Highway Works
14. All trenches within 5m of tree roots to include tree root protection membrane. Trenches within tree root protection zones (RPA) should retain existing soil levels and any roots >25mmØ should be discussed with an arboculturlist prior to affecting tree root system.

Revision	Date	Description	Drawn	Apprvd.
P01	27.04.26	Issued for Approval	AW	LS

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Client	Wythenshawe Community Housing Group
Project	Greenbrow Road Wythenshawe
Drg Title	Proposed Surface Water Drainage Plan

Created on	Created by	Approved by
09.03.26	AW	LS

Scale	Size	Workstage
1:100	A1	Stage 4

Drg No.	Suitability	Revision
382-LST-XX-XX-DR-D-0100	S4	P01

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