

HEALTH AND SAFETY INFORMATION

Hazards, that could not have been foreseen by a reasonably competent contractor, have been identified by the designer.

Drainage Notes

- No work should commence on site until written approval is received from the local authority. The design is for a proposed sewerage network. Works undertaken prior to approval are at the developer's risk and Urban Vision Partnership will not be held responsible for subsequent delays in approvals, remedial costs or delays.
- All levels of existing foul and surface water systems are to be confirmed prior to the commencement of any on site drainage works. Any discrepancy in levels is to be reported immediately to the engineer.
- Drainage layout subject to coordination with services and landscaping requirements.
- All adoptable sewers, unless otherwise stated, shall be: 150mm - 300mm dia to be verified clay; 375mm dia and greater to be Class 120 concrete pipes.
- All verified clay pipes to be BS EN 295-1; All concrete pipes to be to BS EN 1916; All concrete manholes to be to BS EN1917.
- First drop out of manholes to be as short as practicable as to provide a feasible joint as close as possible to the outside face of the concrete surround and connected to a rooker pipe.
- All pipe diameters given are nominal internal pipe diameters including rising mains.
- All adoptable sewer works to comply with WRC 'Sewers for Adoption' - 6th Edition. United Utilities requirements and kitemarked (or similar approved) where practicable. Where conflicting details occur, United Utilities details shall take precedence in all cases.
- Manhole covers shall / must have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways. Class B125 covers and frames to be provided on all other manholes.
- United Utilities is NOT obliged to accept filter traps / land drainage run off into the public sewer network or adoptable drainage system (directly or indirectly). An alternative method of disposal of land drainage run off will therefore be required and any proposals must be agreed with the local authority land drainage section.
- Supalite resistant cement (C20/C22) and precast concrete products must be used or a laboratory report provided to prove that such precautions are not required.
- Adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
- All sewer trenches and branch connections to be backfilled with suitable material in layers not exceeding 225mm unconsolidated thickness then fully compacted.
- Adoptable sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer lengths.
- Clayware channels shall be used within manholes for pipe sizes up to and including 300mm diameter.
- See dwg no UV004393-0552-38 to 40 for manhole base plans, see dwg no UV004393-0552-37 for manhole schedule, see dwg no UV004393-0552-41 for drainage longsection.
- Refer to United Utilities Standards Details for further information.
- A S185 legal agreement with United Utilities will be required prior to the sewer diversion and abandonment. A CCTV survey and written report will need submitting before work commences to ensure no live connections are severed.
- Abandoned sewers to be removed or grouted up to Clause 5.2.2.11(6th Edition).
- No proposed utilities plant is known.
- For details of pipe bedding and backfill refer to United Utilities drawing STD05001, where conflicting details occur, United Utilities details shall take precedence in all cases.
- Flow control shall be through 2 no. hydro-pneum@ : MD6 - 15.98m/s, 1.500m Head, 173mm dia; MD6 - 6.66m/s, 0.770m Head, 114mm dia.

- URS to undertake diversion/abandonment and plot drainage arrangements necessary outside the scope of this Section 10A agreement. All DWS works shown on this drawing are indicative only.
- Drawing Number Amended 15/09/16 AD MB MB
- Issued for construction 21/07/15 AD MB MB
- Diversion location indicated 17/07/15 AD MB MB

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SURFACE WATER S104 LAYOUT NETWORK 2-B DIVERSION LOCATION

approval status	17/07/2015
Design	DR
Tender	MAJ
Construction	MB
As Built	

project ref

UV004393-0550-02

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