

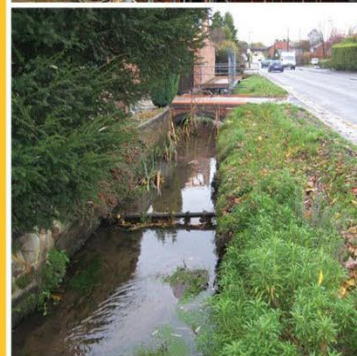
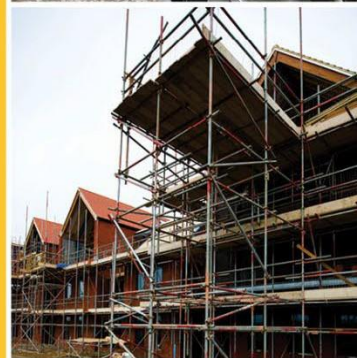


**PASTURE LANE, GADDESBY,
LEICESTERSHIRE**

CONSTRUCTION MANAGEMENT PLAN

APRIL 2022

REPORT REF: 24438-02-CEMP-01



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REGISTRATION OF AMENDMENTS

DATE	REV	CHANGE	PREPARED BY	APPROVED BY
April 2022	-	First Issue	DH	EM

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DRAWINGS REFERENCED

- 24438_02_020_01.1 DRAINAGE ARRANGEMENT SHEET 1 OF 4
- 24438_02_020_01.2 DRAINAGE ARRANGEMENT SHEET 2 OF 4
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1.0 INTRODUCTION

- 1.1 The proposed development site off Pasture Lane, Gaddesby consists of 10 plots with associated highway and sewer infrastructure. The surface water sewer infrastructure is approximately 376m of pipe; 1 no. attenuation pond; 1 no. outfall to existing ditch. The foul sewer infrastructure is approximately 205m of adoptable foul sewers and a new connection to an existing Severn Trent Water (STW) manhole (ref. 0402).
- 1.2 The pond will attenuate the contributions of site wide surface water as discharged from the on-site sewer system as per drawings 24438_02_020_01.2 to _01.4, before a restricted flow runs off-site into an existing ditch. Storm water generated in events up to and including the 1 in 100 years + 40% climate change will be stored within the attenuation pond.
- 1.3 The contributing foul water discharge from the site is proposed to enter the existing sewer which is located within Paske Avenue to the south of the site. A new connection will be made to the existing STW and will have an unrestricted flow as per drawing 26899_02_020_01.

2.0 DISPOSAL OF SEEPAGE, WASTEWATER AND GROUNDWATER

- 2.1 Prior to completion of the adoptable foul sewer, the Contractor shall prevent wastewater being discharged from the site and source alternative means of disposal to avoid impact on the environment. Temporary welfare facilities which are maintained by the supplier/hire company shall be used during construction. An alternative is for a temporary septic tank to be installed and to utilize a licensed waste management contractor to dispose of the wastewater at regular intervals.
- 2.2 The contractor should comply with BS6031: 2009 Code of Practice for Earthworks, regarding the general control of site drainage.
- 2.3 The contractor will ensure waste water that's been in contact with any contaminated materials should be removed from site in accordance with the Water Industry Act 1991 (where dispersed to public sewers) and the Environmental Permitting Regulations (where dispersed to existing water network) and other regulations to the satisfaction of the Environment Agency, Local Authority, Lead Local Flood Authority and Sewerage Undertaker.
- 2.4 The following consents and approvals must be applied for by the contractor, as necessary:
- A consignment note system must be applied to all liquid wastes that are removed by a licensed waste carrier in a road tanker in accordance with all relevant waste management legislation and duty of care obligations.
 - For any discharge of wastewater into a sewer, a trade effluent consent must be sought from Severn Trent Water.
- 2.5 The contractor will make adequate provisions ensuring all hazardous substances, including oil drums or containers on site, are controlled in accordance with the Control of Substances Hazardous to Health Regulations. Appropriate labelling of such containers is essential as is having a suitable secondary containment system (SCS) in place and that no oil or other contaminants are allowed to reach water courses or groundwater.
- 2.6 Foul water and sewage effluents produced by the construction workforce on-site must be contained in temporary foul drainage facilities that are to be installed and subsequently disposed of off-site by a licensed waste contractor.

3.0 FLOODING

- 3.1 In accordance with M-EC Technical Note: Flood Risk and Drainage Strategy, ref 24438/12-18/6453 Rev C, the site currently sits within flood zone 1. The development is therefore outside of any floodplain and is not considered to be at risk from river/tidal flooding.
- 3.2 Whilst the development is not considered to be at risk of flooding, the contractor must, as far as reasonably practicable, ensure flood risk (from means such as surface water, sewer surcharging and ground water) is maintained safely for the entire construction period.
- 3.3 Measures to protect against flooding should include consideration of existing/proposed site flow paths, these could become active during extreme rainfall and/or sewer surcharging, especially whilst completing temporary works. Overland flow paths are determined by site topography, and are shown on drawing 24338_02_020_01.2. Operations that are vulnerable to overland flow and groundwater will be located at elevated parts of the site, away from flow paths.
- 3.4 In order to reduce flood risk, a flow control device should be installed immediately downstream of the installation of the attenuation pond. This must be before the final surface water connection is made to the existing ditch. In addition, both of these should be built at the same time or before any gullies are installed servicing hard paved surfaces within the development. All of the above should take place early on in the construction process, ensuring that any overland flows can be dealt with appropriately.

4.0 TEMPORARY AND PERMANENT CONNECTIONS TO SEWERS/DITCHES

4.1 Existing ditch:

- Prior to construction the contractor is to ensure that the ditch is clear of obstructions and free flowing.
- A silt fence (netting) is to be installed immediately prior to the new outfall to the existing ditch, and also immediately prior to the pond outfall to the flow control manhole.
- The silt fences should be inspected weekly, repaired and replaced as necessary. Any silt or debris that has built up should be excavated/cleared.
- Proposed works are to be wholly contained within the site boundary (with the exception of works within the public highway for the site access works and foul sewer).
- Full environmental protection measures shall be included within the construction phase health and safety plan which is a requirement under the CDM regulations 2015. This shall include preventative measures for all environmental issues, but in particular dust, noise, vibration, waste management, spillages, etc.
- The existing ditch shall be checked by an appropriately qualified ecologist to ensure there are no likely impacts on wildlife by the proposed works.

4.2 Proposed sewers:

- The surface water sewerage, including the attenuation pond and flow control manhole are to be constructed prior to all other development to ensure there is capacity to accommodate storm events during the works. Until the attenuation is completed, no pavements are to be constructed or other impermeable surfaces/buildings. During this phase of the works the site runoff shall direct towards the open field directly to the north of the site.
- Silt traps/fences are to be installed on the outlet of the headwall to the ditch and flow control manhole to ensure any silt that flows into the new sewer system is captured prior to discharge.
- The new sewer system and outfalls to be inspected weekly to ensure that it is fully operational. Any silt/debris shall be cleared.
- Road gullies and connections from the private drainage can be constructed once the full sewer system is completed and operational. Road, driveway and other impermeable surfaces/buildings can be constructed. All inlets to be kept clear and protected from silt/debris.
- Proposed works are to be wholly contained within the site boundary (with the exception of works within the public highway for the site access works and foul sewer).
- The contractor is to erect fencing to prevent access to the existing ditch from plant and materials.
- A temporary screen shall be installed in the last foul manhole prior to connection to

the existing foul sewer network.

4.3 At completion of the development:

- Once the proposed development is completed, along with other landscaping works the ditch shall be checked, regraded or cleared as necessary. Silt fences shall be removed.
- On completion of the proposed development, the temporary screen in the foul sewer shall be removed and any residual debris/silt shall be removed.

5.0 SPILL AND LEAK PROTECTION

5.1 The contractor will ensure that a universal spill kit and an oil only spill kit is available at all times on-site.

5.2 An appropriate number of spill kits should be provided with this being assessed by the contractor based on the schedule and location of works taking place on the site.

5.3 Typical contents of a universal spill kit will include:

- Gloves
- Absorbent socks
- Absorbent pads
- Disposable bags and ties

6.0 MAINTENANCE REGIME

6.1 A proposed maintenance plan is shown in table 1 breaking down the maintenance responsibility during construction, which is based on good practice and general current procedures.

Table 1

Drainage Asset	Maintenance Work	Frequency
Existing drainage ditch	Check and maintain existing ditch structure to ensure that it is clear of debris and that construction activity has not affected its existing size or shape.	During site clearance and at monthly intervals.
	Check the existing ditch for pollutants which might have been conveyed from the development works.	During site clearance and at monthly intervals.
Existing STW Manhole (ref. 0402)	Inspect existing manhole and repair any defects.	Before and upon completion of connection works
	Inspect existing manhole, proposed pipe connection and temporary screen for debris, silt or pollution.	Completion of drainage network; after severe storms; following final occupation on-site.