

Construction Surface Water Management Plan (CSWMP)

Site:

Groby Lodge Farm, Slate Pit Lane, Groby LE6 0GN

Prepared in support of Planning Condition 10

<i>Revision</i>	<i>Date</i>	<i>Description</i>	<i>Prepared</i>	<i>Checked</i>
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1.0 Introduction

This Construction Surface Water Management Plan (CSWMP) has been prepared to discharge Planning Condition 10 of planning permission ref. 18/00329/FUL.

The purpose of this document is to set out the measures that will be implemented to manage surface water runoff during the construction phase of the development.

This CSWMP demonstrates how surface water will be managed to ensure that:

- There is no increase in flood risk on-site or off-site;
- There is no deterioration in the quality of surface water runoff or receiving watercourses, including Slate Brook; and
- The approved permanent surface water drainage system is protected throughout the construction phase.

All construction activities will be implemented in accordance with this approved CSWMP to ensure that surface water runoff is effectively controlled, and that the requirements of Planning Condition 10 are fully satisfied.

This document should be read alongside the approved Drainage Strategy, which sets out the permanent surface water drainage design for the site.

2.0 Site Description

The site comprises the redevelopment of Groby Lodge Farm for residential use. Surface water from the site drains towards Slate Brook, which forms the receiving watercourse.

Ground conditions are characterised by clay subgrade and alluvial deposits, and therefore infiltration has been assessed and found to be not feasible. In accordance with the drainage hierarchy, surface water will be managed through on-site attenuation and controlled discharge to Slate Brook at greenfield runoff rates as part of the permanent drainage scheme.

The site is located predominantly within Flood Zone 1, with no proposed built development within areas at higher risk of flooding.

3.0 Site Context

The proposed development comprises the conversion of existing agricultural barns and the construction of new residential dwellings at Groby Lodge Farm, including associated access, parking, and external works within the site boundary.

The site:

- Lies predominantly within Flood Zone 1;
- Drains naturally towards Slate Brook, which forms the receiving watercourse; and
- Is affected by an existing 375mm diameter public foul sewer, which will be protected during construction.

The identified constraints have been taken into account in the design of both the temporary and permanent drainage strategies.

4.0 Objectives of the CSWMP

The key objectives of this plan are:

To manage surface water runoff during construction in accordance with LLFA and Environment Agency guidance;

- To prevent uncontrolled discharge of surface water or sediment off-site;
- To ensure that construction activities do not increase flood risk on-site or off-site;
- To protect the approved permanent drainage system (SuDS features) from siltation, damage, or contamination during construction;
- To prevent pollution of receiving watercourses, including Slate Brook;
- To maintain safe working conditions throughout the construction phase; and
- To ensure there is no deterioration in surface water quality during the construction phase.

At all stages of construction, temporary drainage measures will be implemented to ensure that surface water runoff is managed in a controlled manner and does not result in increased flood risk or uncontrolled discharge.

5.0 Construction Phase Drainage Strategy

Surface water management during construction will be undertaken in a phased and controlled manner, ensuring that runoff is effectively managed at all times prior to the completion and commissioning of the permanent drainage system.

Temporary drainage measures will be implemented throughout the construction phase to control the rate, volume, and routing of surface water runoff, ensuring that:

- There is no increase in flood risk on-site or off-site;
- There is no uncontrolled discharge of surface water from the site; and
- Surface water flows are directed safely to appropriate discharge points without causing erosion or pollution.

These measures will be installed prior to significant ground disturbance and maintained for the duration of the construction works to ensure continuous and effective surface water management.

The temporary drainage strategy will operate independently of the permanent drainage system until such time as the permanent infrastructure is completed, inspected, and commissioned.

6.0 Temporary Drainage Measures

The following temporary drainage measures will be implemented during the construction phase:

- Formation of temporary drainage channels and swales to direct runoff away from active construction areas;

- Use of temporary pipework or cut-off ditches, where required, to convey flows safely across the site;
- Installation of temporary attenuation measures, such as settlement areas or storage zones, to control peak runoff rates; and
- Progressive connection to the permanent drainage system as it is constructed and becomes operational.

All temporary drainage measures will be installed prior to major earthworks and maintained throughout the construction phase to ensure effective control of runoff rates, volumes, and flow pathways.

No uncontrolled discharge of surface water will occur to Slate Brook during the construction phase.

Temporary measures will be regularly inspected and maintained to ensure continued performance throughout the construction phase.

7.0 Surface Water Control

During construction, surface water runoff will be managed in a controlled manner to ensure that flows are directed towards low-risk areas of the site and do not result in flooding, erosion, or pollution.

- Surface water runoff will be controlled and directed away from active construction areas;
- Runoff will not be permitted to discharge uncontrolled onto adjacent land or the public highway; and
- Discharge rates will be managed to avoid overloading existing drainage systems or the receiving watercourse.

Surface water runoff will be managed to ensure no increase in peak discharge rates from the site during construction. Where temporary discharge is required, flows will be controlled and directed to suitable outfall locations without causing erosion or flooding.

No uncontrolled discharge of surface water will occur to Slate Brook during the construction phase.

In the permanent drainage scheme, discharge will be controlled via a Hydro-Brake flow control device, restricting flows to greenfield runoff rates prior to discharge to Slate Brook.

All temporary discharge arrangements will be monitored and adjusted as necessary to ensure continued compliance with greenfield runoff principles throughout the construction phase.

8.0 Silt and Sediment Control

To prevent sediment-laden runoff entering the drainage system or Slate Brook, the following measures will be implemented:

- Installation of silt fences, straw bales, or geotextile barriers;
- Use of settlement tanks, silt traps, or sediment control measures;
- Regular inspection and maintenance of all silt control measures; and

- Stabilisation of exposed ground surfaces as soon as practicable.

All reasonable measures will be implemented to prevent the mobilisation and discharge of sediments, pollutants, and construction-related contaminants, ensuring that there is no deterioration in the quality of receiving waters.

Silt control measures will be installed prior to earthworks and maintained throughout the construction phase to ensure their continued effectiveness.

9.0 Pollution Prevention Measures

During the construction phase, appropriate measures will be in place to ensure that any accidental pollution is prevented from entering the surface water drainage system or the receiving watercourse.

No discharge of contaminated water will be permitted to the drainage system or receiving watercourse.

In the event of accidental spillages or contamination, immediate action will be taken to contain and remove pollutants to prevent entry into the drainage system.

All reasonable measures will be implemented to ensure there is no deterioration in the quality of receiving waters during the construction phase.

10.0 Protection of Watercourse

Specific measures will be implemented to protect Slate Brook during the construction phase:

- No direct discharge of untreated surface water runoff to the watercourse;
- Maintenance of an appropriate buffer zone between construction activities and the watercourse, where practicable;
- Implementation of silt control measures to prevent sediment migration; and
- Monitoring of runoff where required to ensure effective protection of water quality.

No uncontrolled or contaminated discharge will be permitted to enter Slate Brook during the construction phase.

All measures will be maintained throughout the construction phase to ensure the continued protection of the receiving watercourse.

The permanent drainage system includes an attenuation pond and Hydro-Brake flow control device, which will regulate discharge to Slate Brook at greenfield runoff rates.

11.0 Protection of Existing Infrastructure

The existing 375mm diameter Severn Trent Water public sewer will be protected during the construction phase through the following measures:

- Clearly identifying and marking the location of the sewer on site;
- Maintaining appropriate stand-off distances from the sewer;
- Avoiding loading or construction activities over the sewer; and
- Ensuring access is maintained at all times for inspection, maintenance, and emergency works.

All works in the vicinity of the existing sewer will be carried out in accordance with Building Regulations Part H to ensure the protection and integrity of the existing infrastructure.

12.0 **Construction of Permanent Drainage**

The permanent surface water drainage system will be constructed at an early stage of the development, where practicable, to facilitate effective surface water management throughout the construction phase.

- Key drainage infrastructure, including pipes, manholes, and the attenuation pond, will be constructed in a phased manner;
- Temporary drainage measures will be progressively removed or adapted as sections of the permanent drainage system become operational; and
- Final connections to the attenuation pond and outfall will be completed in accordance with the approved drainage design.

The permanent drainage system will not be brought into full operation until upstream catchment areas are stabilised and free from excessive sediment, to prevent siltation and damage to the system.

All components of the permanent drainage system will be inspected, cleaned, and verified prior to commissioning.

The permanent drainage system includes an attenuation pond and Hydro-Brake flow control device, which will regulate discharge to Slate Brook at greenfield runoff rates.

13.0 **Site Management and Monitoring**

The site contractor will be responsible for implementing and maintaining all drainage and surface water management measures throughout the construction phase.

- Regular inspections of all temporary drainage and pollution control measures will be undertaken, particularly following rainfall events;
- Any issues identified will be addressed promptly to ensure the continued effectiveness of the drainage strategy;
- Records of inspections and maintenance activities will be maintained and made available upon request; and
- All measures will be maintained to ensure there is no increase in flood risk and no deterioration in water quality during the construction phase.

A nominated site manager will oversee compliance with this CSWMP throughout the construction phase.

14.0 Construction Phasing and Drainage Approach

Surface water management will be implemented in line with the construction programme, ensuring that runoff is effectively controlled throughout all stages of the development.

- **Phase 1 – Site Clearance and Earthworks**
Temporary drainage measures will be installed prior to major ground disturbance to manage surface water runoff.
- **Phase 2 – Infrastructure Installation**
Drainage networks and temporary attenuation measures will be progressively introduced to convey and control runoff.
- **Phase 3 – Building Construction**
Surface water runoff will be managed using temporary drainage systems until the permanent drainage system becomes operational.
- **Phase 4 – Final Works and Commissioning**
The permanent drainage system will be completed, inspected, tested, and brought into operation in accordance with the approved drainage design.

At all stages of construction, appropriate drainage measures will be implemented to ensure that surface water runoff is managed in a controlled manner, with no increase in flood risk on-site or off-site and no uncontrolled discharge.

15.0 Temporary Surface Water Management Measures

The following temporary surface water management measures will be implemented during the construction phase:

- Cut-off drains and swales to intercept and manage surface water runoff;
- Temporary drainage channels and pipework to convey flows safely across the site;
- Silt control measures, including silt fences and sediment traps, to prevent sediment migration;
- Temporary attenuation storage (where required) to manage peak runoff rates; and
- Measures to prevent contamination of runoff from construction activities.

Runoff will be directed to controlled discharge points, ensuring that there is no uncontrolled discharge from the site.

All temporary measures will be implemented, maintained, and adapted as necessary throughout the construction phase to ensure effective surface water management.

These measures will operate in conjunction with the detailed provisions set out in Sections 6 to 9 of this report.

16.0 Surface Water Quality Management

To protect water quality during construction, surface water runoff will be managed to minimise the risk of sediment and contaminants entering the drainage system or receiving watercourse.

Runoff from disturbed areas will pass through appropriate sediment control measures prior to discharge; and

Where practicable, clean and potentially contaminated runoff will be managed separately to reduce the risk of pollution.

In the event of accidental spillages or contamination, immediate action will be taken to contain and remove pollutants to prevent entry into the drainage system.

These measures will ensure that there is no deterioration in water quality and no pollution of Slate Brook or surrounding land during the construction phase.

All measures will be maintained throughout the construction phase to ensure ongoing protection of water quality.

17.0 Protection of Permanent Drainage System

The approved permanent surface water drainage system will be protected during construction to prevent damage, siltation, or contamination.

- Permanent SuDS features (including the attenuation pond and flow control devices) will not be brought into use until upstream areas are stabilised and free from excessive sediment;
- Temporary drainage measures will be implemented in place of permanent systems during early construction phases;
- Permeable paving areas will be installed late in the construction programme or otherwise protected from sediment ingress; and
- All drainage infrastructure will be inspected and cleaned prior to commissioning.

These measures will ensure that the permanent drainage system operates effectively and in accordance with the approved Drainage Strategy.

The system will only be commissioned once it has been verified as free from debris and functioning as designed.

18.0 Exceedance and Extreme Weather Management

In the event of heavy rainfall or storm events exceeding the design capacity of the temporary or permanent drainage systems, exceedance flows will be managed safely on-site.

- Overland flow routes will be maintained to direct flows away from buildings and sensitive areas;
- Temporary exceedance routes will follow the natural site topography towards Slate Brook;
- Site levels and temporary drainage measures will ensure that no off-site flooding occurs; and
- Construction activities will be adjusted where necessary during extreme weather events.

Exceedance flows will be routed towards designated low points and attenuation features, ensuring that there is no flooding of buildings and no increase in off-site flood risk.

These measures will ensure that exceedance flows are managed in a controlled manner throughout the construction phase.

Exceedance flow routes will be kept clear of obstruction at all times during the construction phase.

19.0 Inspection, Maintenance and Responsibilities

The contractor will be responsible for implementing and maintaining all measures outlined in this CSWMP throughout the construction phase.

- Temporary drainage and pollution control measures will be inspected regularly, particularly following rainfall events;
- Any blockages, damage, or failures will be identified and rectified promptly;
- A site manager will be responsible for overseeing compliance with this CSWMP; and
- Records of inspections and maintenance activities will be retained and made available upon request.

All measures will be maintained to ensure there is no increase in flood risk on-site or off-site and no deterioration in water quality during the construction phase.

Inspections will be undertaken at a frequency appropriate to the stage of construction and prevailing weather conditions.

Road & Sewer Consulting Ltd will remain available to provide site support, technical advice and periodic reviews as required.

20.0 Drawings and Supporting Information

A Construction Drainage Plan will accompany this document, illustrating the proposed surface water management measures during the construction phase, including:

- Temporary drainage layout;
- Flow directions and discharge points;
- Location of silt and sediment control measures;
- Temporary attenuation or storage areas (where required);
- Storage and material handling areas; and
- Protection zones for permanent drainage infrastructure and nearby watercourses.

This plan will support the implementation of the measures set out in this CSWMP and demonstrate how surface water runoff will be effectively managed throughout the construction phase.

21.0 Handover and Commissioning

Prior to completion of the development:

- Temporary drainage measures will be removed once no longer required;
- The permanent drainage system will be fully inspected and tested;
- Any sediment or debris will be removed from all drainage infrastructure; and
- The system will be commissioned in accordance with the approved Drainage Strategy.

Following completion, the drainage system will be operational and functioning as designed to manage surface water runoff effectively.

This CSWMP demonstrates a robust approach to managing surface water runoff during the construction phase, ensuring protection of the receiving environment, including Slate Brook, and the approved drainage infrastructure.

The measures set out in this plan will ensure compliance with the requirements of Planning Condition 10, relevant LLFA guidance, and applicable industry standards and guidance.

22.0 Implementation

The construction of the development will be carried out in full accordance with this approved Construction Surface Water Management Plan (CSWMP) to ensure compliance with Planning Condition 10, relevant LLFA guidance, and national planning policy.

This will ensure that surface water runoff is effectively managed throughout the construction phase, with no increase in flood risk on-site or off-site and no deterioration in water quality.

23.0 Drainage Statement

This Construction Surface Water Management Plan (CSWMP) demonstrates that:

- Surface water runoff will be effectively managed during the construction phase;
- There will be no increase in flood risk on-site or off-site;
- Pollution of Slate Brook will be prevented;
- Existing infrastructure, including the 375mm public sewer, will be protected; and
- The development will comply with the requirements of Planning Condition 10.

The construction of the development will be carried out in full accordance with this approved CSWMP to ensure that surface water runoff is appropriately managed throughout the construction phase, with no increase in flood risk, no deterioration in water quality, and full protection of the approved surface water drainage system.

APPENDICES



- ## Appendix A
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1. All proposed dredge gullies shall be filled with sediment traps.
 2. All proposed surface water catchpits and manholes shall incorporate sump drains and silt traps where appropriate.
 3. All temporary drainage and pollution prevention measures shall be installed to the commitment of major earthworks.
 4. Surface water runoff shall not discharge untreated to State Brook or any other watercourses.
 5. Temporary drainage measures shall be inspected at least weekly and following periods of heavy rainfall, with any defects rectified promptly.
 6. Sediment traps, silt fences and other pollution control measures shall be inspected regularly and cleaned, repaired or replaced as necessary to maintain their effectiveness.
 7. Pollution prevention measures shall be implemented and maintained in accordance with current Environment Agency guidance and relevant industry best practice.
 8. Any contaminated water generated during construction shall be collected and removed from site by a licensed waste contractor in accordance with the relevant environmental legislation.
 9. Temporary drainage measures shall remain fully operational until the permanent drainage system has been constructed, commissioned and is fully functional.
 10. Surface water runoff from disturbed ground shall pass through appropriate temporary sediment control measures prior to discharge.
 11. Temporary drainage measures shall be maintained throughout the construction period to ensure effective management of surface water runoff and sediment.
 12. The existing watercourse (State Brook) shall be protected throughout the construction period. No untreated surface water runoff, sediment-laden water or construction pollutants shall be permitted to discharge directly into the watercourse.
 13. Fuel storage, plant refuelling, spill kits and concrete washout facilities shall be located in designated areas well away from State Brook and any surface water drainage features.
 14. All temporary drainage measures shall be removed only after the permanent drainage system has been completed, tested, commissioned and approved. No measures shall be required.

REV	DATE	DESCRIPTION	BY	CHK.
STATUS				

FOR PLANNING

CLIENT **Biroman Limited**

SITE

Grobby Lodge Farm
Slate Pit Lane
Grobby LE6 0GN

TITLE

Construction Drainage Management Plan

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