

Temporary Run-off Management Plan

CROFT STREET, BIRKENSHAW

RIVA HOMES

16/04/2025



TEMPORARY RUN-OFF MANAGEMENT PLAN
CROFT STREET, BIRKENSHAW
FOR
RIVA HOMES



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- 1) Eastwood CE Temporary Drainage Management Plan

Issue 1: 16 April 2025

1.0 INTRODUCTION

Riva Homes are developing a 0.86-hectare greenfield site for residential use located within Birkenshaw, to the south-east of Bradford. The site is centred on coordinates 420405, 428450. Proposals are for 21 dwellings, with access from Old Lane to the north-east.

The site is bounded by Croft Street and a public house to the north, Old Lane to the north-east, with residential properties to the east, south and west.

The nearest watercourse is over 175 m away from the site. The developed site will drain via gravity to the existing public combined sewer located off Allen Croft south of the site with discharge restricted to 3.5 l/s.

The site falls from approximately 188.34 mAOD in the north to approximately 182.57 mAOD in the south-west and 185.45 mAOD in the south-east at average gradients of 1 in 17 and 1 in 28 respectively.

This report outlines the temporary site drainage measures and management of construction run-off for the proposed site and has been prepared for, and on the instructions of, Riva Homes. Any other parties using the information in this report do so at their own risk and any duty of care is excluded.

2.0 SITE PERSONNEL AND DOCUMENTATION

The following measures are to be implemented to increase awareness and bring existing site documentation up to date:

1. Undertake additional detailed site-based awareness training (Toolbox Talk) on silt management and protection for all site staff including groundworkers;
2. Include a detailed section relating to silt protection within site induction folder;
3. Continued review of existing Site-Specific Environmental Action Plan (SSEAP) to reflect measures in addition to those within the standard procedures to be implemented on site (As discussed below); and
4. Undertake weekly site audit and obtain support from Environmental Consultant if or when required.

Identify a 24 hour contact in case of an emergency in the event of pollution occurring or an imminent risk of pollution occurring. Details of the appointed contractor will be included prior to works commencing.

3.0 PROTECTION MEASURES WITHIN ACTIVE DEVELOPMENT ZONE

3.1 Drainage

The following protection measures are to be implemented to protect the surface water sewerage system and the surrounding area:

1. Provision of a road sweeper on site and adjacent road network during periods of inclement weather (to be continually assessed by site management);
2. Installation and maintenance of surface water runoff control areas with an overall capacity for 196 m³ temporary water storage as indicated on the temporary drainage management drawing. These have been sized to accommodate the volume of run-off from the 2 year rainfall event with discharge restricted to 2.2 l/s (i.e. equivalent to 2.5 litres per second per hectare, as specified by Kirklees Council LLFA);
3. Groundwater from deep excavations to be tankered off site.
4. The outfalls from the control area should be blocked off to allow settlement;
5. Control release will be by over pumping to the offsite public sewer via the site's combined drainage system which should be installed as part of the first phase of construction works. Over pumping will be at a maximum rate of 2.2 l/s.
6. Control area to be monitored to ensure that it does not overflow although this could occur during a rainfall event in excess of the 1 in 2 year;
7. In the event of heavy rainfall, control release or tankering may be required to remove collected water from the control area;
8. Construction of perimeter bund as indicated on the temporary drainage management drawing designed to direct surface flow to the control area and prevent off-site flow;
9. Installation of silt fences along the perimeter of the site in areas where there is a risk of overland flows into offsite areas as indicated on the temporary drainage management drawing;
10. Retention of vegetation in areas not identified for construction until later phase;

11. The placement of gully guards (or standard protection) in all gullies during construction and to be inspected and replaced / cleaned when necessary;
12. The placement of a terram layer within all manholes during construction and to be inspected and replaced when necessary;
13. Minimise the movement of plant on and off roads to prevent the tracking of excess soil onto roads and highways (planning of working day);
14. The installation of wheel wash measures at site entrance / exit Old Lane as indicated on the temporary drainage management drawing;
15. Construction of speed ramps to slow traffic down and also to help direct surface water to collection areas;
16. The installation of hardstanding areas to the front of all plots to enable 'clean' forklift access;
17. The placement of topsoil at the earliest opportunity to control surface run-off from completed areas; and
18. General good housekeeping of the site.

3.2 Monitoring Procedures and Records

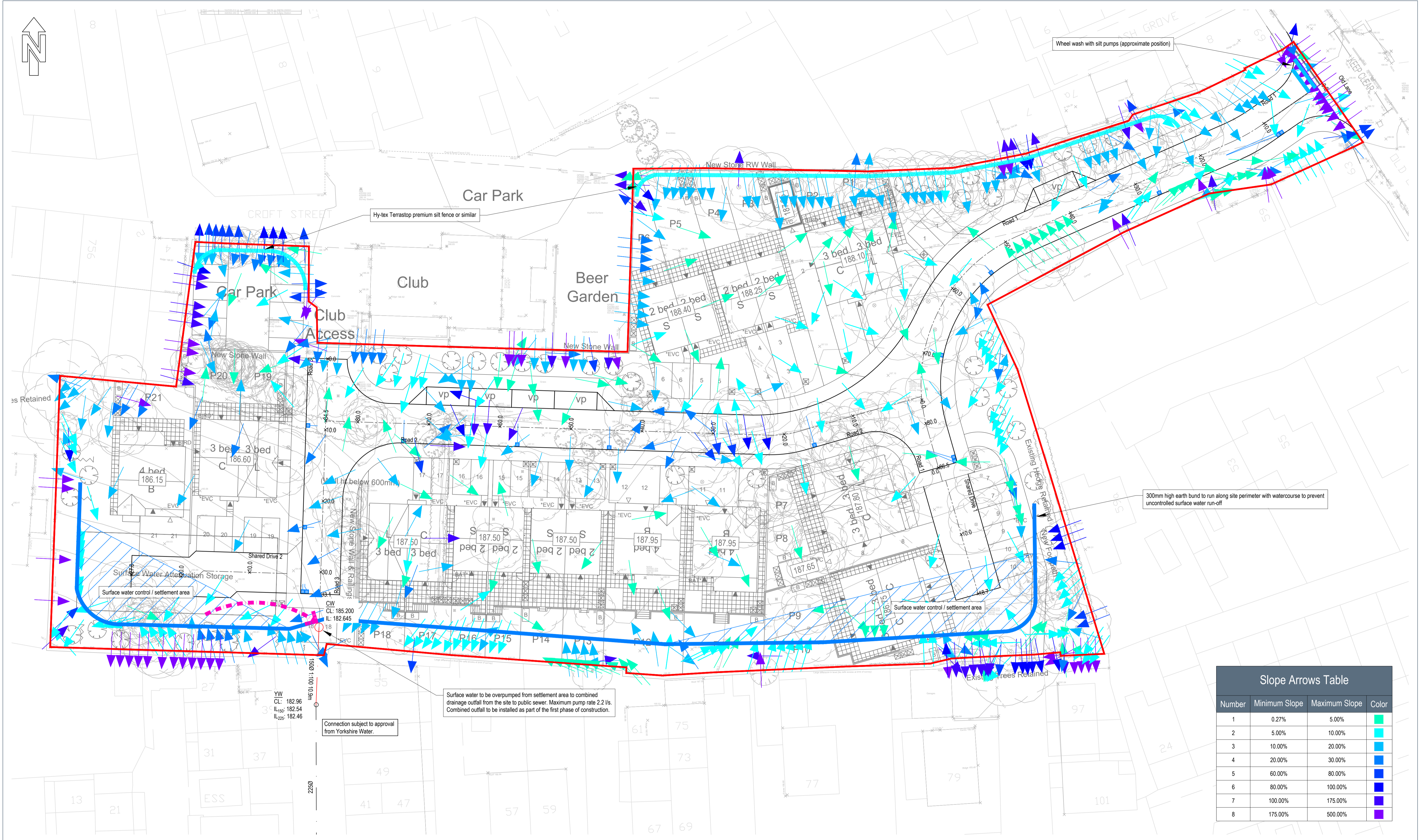
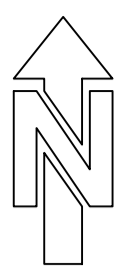
The following monitoring procedures will be carried out on a daily or weekly basis by the site team to enable continuous review of the measures listed above. A comprehensive record of the effectiveness of the system will then be maintained to enable further review by any parties attending site:

1. Regular inspection and management of the temporary control areas to ensure they are not blocked or over-filled;
2. Replacement of terram as required;
3. Regular assessment of bund construction and silt fences to ensure surface water is controlled and not impacting adjacent areas;

4. Regular inspection of the outfall sewer to ensure no adverse effects from the development operations. Findings to be recorded in a site log or equivalent;
5. The SSEAP will be reviewed and updated when required to reflect changes to site conditions and operations;
6. All records will be reviewed on a monthly basis, but advice can be obtained by the site team at any time from the appointed environmental consultant; and
7. Contact should be made to the appointed Environmental Consultant in the event of heavy rainfall breaching protective measures.

APPENDICES

APPENDIX 1



Wheel wash with silt pumps (approximate position)

Hy-tex Terrastop premium silt fence or similar

300mm high earth bund to run along site perimeter with watercourse to prevent uncontrolled surface water run-off

Surface water to be overpumped from settlement area to combined drainage outfall from the site to public sewer. Maximum pump rate 2.2 l/s. Combined outfall to be installed as part of the first phase of construction.

Connection subject to approval from Yorkshire Water.

Slope Arrows Table			
Number	Minimum Slope	Maximum Slope	Color
1	0.27%	5.00%	Light Green
2	5.00%	10.00%	Light Blue
3	10.00%	20.00%	Medium Blue
4	20.00%	30.00%	Dark Blue
5	60.00%	80.00%	Very Dark Blue
6	80.00%	100.00%	Dark Purple
7	100.00%	175.00%	Medium Purple
8	175.00%	500.00%	Light Purple

- KEY**
- Proposed Hy-tex Terrastop premium silt fence or similar
 - 300mm Bund
 - Pump route
 - Wheel wash

RIVA HOMES

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TEMPORARY DRAINAGE MANAGEMENT PLAN

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