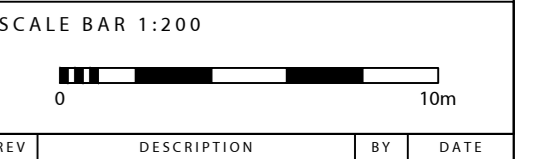


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REV	DESCRIPTION	BY	DATE
P1	ISSUED FOR PLANNING	HP	08.09.21

PROJECTS

PRELIMINARY	TENDER	CONSTRUCTION
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**ASTON HALL BARNES**

TITLE  
**BELOW GROUND DRAINAGE**  
AS EXISTING

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DRAWN	CHECKED	SCALE	DATE
HP	AD	1:200	SEPT 21

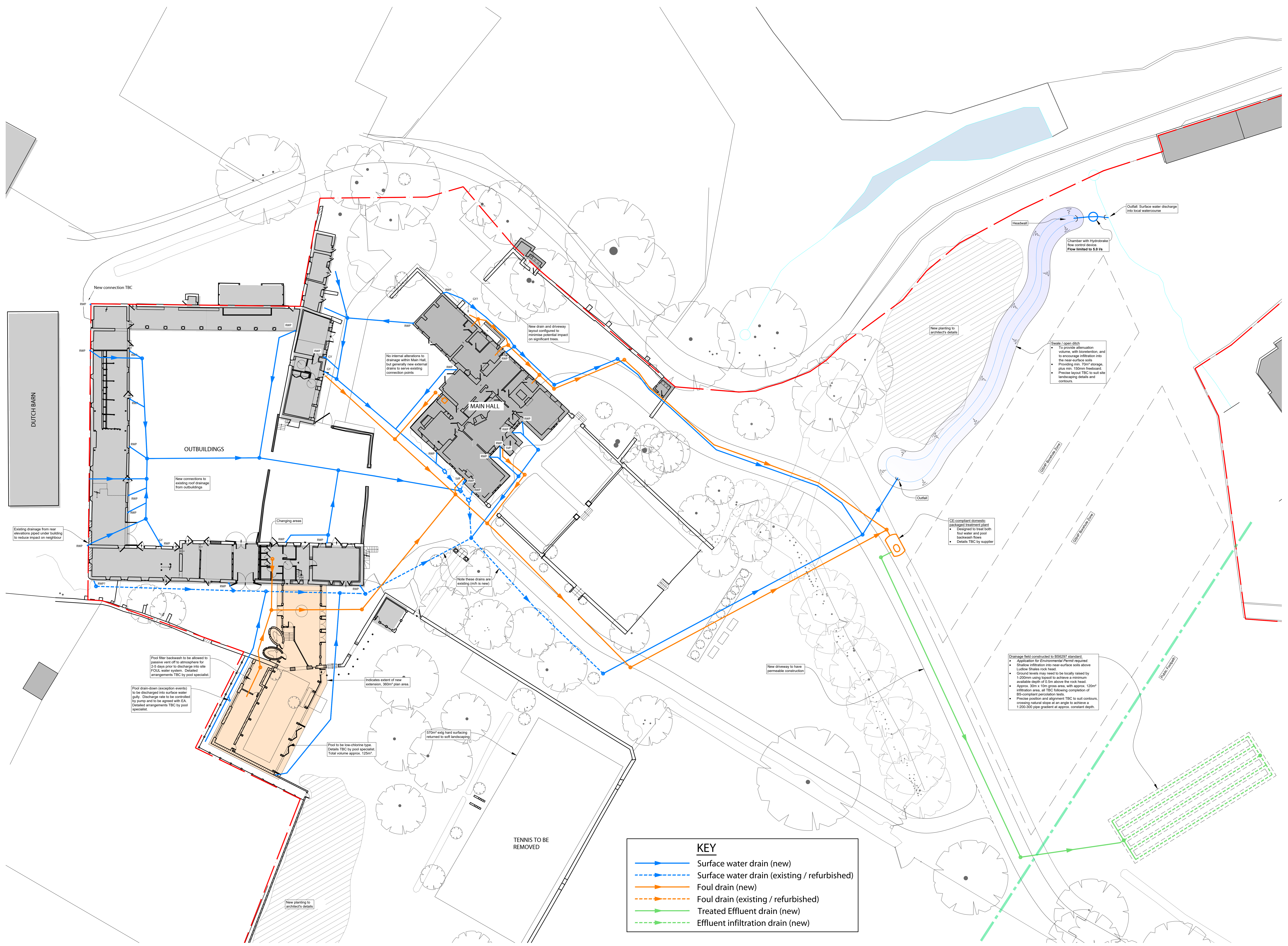
**PRELIMINARY**

PROJECT	DRAWING	REV
10854	500	P1

**KEY**

- Foul or combined drain
- Assumed route
- Surface water drain
- Assumed route
- RWP: Highlighted drainage features are ones for which the discharge routes / connection details were not established by survey.

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**KEY**

- Surface water drain (new)
- - - Surface water drain (existing / refurbished)
- Foul drain (new)
- - - Foul drain (existing / refurbished)
- Treated Effluent drain (new)
- - - Effluent infiltration drain (new)

Drainage field constructed to BS6297 standard

- Application for Environmental Permit required
- Shallow infiltration into near surface soils above Ludlow Shales rock head
- Ground levels may need to be locally raised by 1-200mm using topsoil to achieve a minimum available depth of 0.5m above the rock head
- Approx. 30m x 10m gross area, with approx. 120m<sup>2</sup> infiltration area, all TBC following completion of BS-compliant percolation tests
- Precise position and alignment TBC to suit contours, crossing natural slope at an angle to achieve a 1:200-3:00 pipe gradient at approx. constant depth.

CE-compliant domestic packaged treatment plant

- Designed to treat both foul water and pool backwash flows
- Details TBC by supplier

Swale / open ditch

- To provide attenuation volume, with bioretention, and to encourage infiltration into the near surface soils
- Providing min. 20m<sup>3</sup> storage, plus min. 150mm freeboard
- Precise layout TBC to suit site landscaping details and contours

No internal alterations to drainage within Main Hall, but generally new external drains to serve existing connection points

New drain and driveway layout configured to minimise potential impact on significant trees

New connections to existing roof drainage from outbuildings

Pool filter backwash to be allowed to passive vent off to atmosphere for 2-3 days prior to discharge into site FOU, water system. Detailed arrangements TBC by pool specialist

Pool drain-down (exception events) to be discharged into surface water body. Discharge rate to be controlled by pump and to be agreed with EA. Detailed arrangements TBC by pool specialist

Pool to be low-chlorine type. Details TBC by pool specialist. Total volume approx. 125m<sup>3</sup>

570m<sup>2</sup> extd hard surfacing returned to soft landscaping

Indicates extent of new extension, 360m<sup>2</sup> plan area

Note these drains are existing (with a new)

TENNIS TO BE REMOVED

SCALE BAR 1:200

REV	DESCRIPTION	BY	DATE
P1	ISSUED FOR PLANNING	HP	08.09.2021

PROJECT PHASES: PRELIMINARY, TENDER, CONSTRUCTION

**ASTON HALL BARNES**

BELOW GROUND DRAINAGE  
OUTLINE STRATEGY  
AS PROPOSED

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DRAWN	CHKD	SIZE	SCALE	DATE
HP	AD	A0	1:200	SEPT 21

**PRELIMINARY**

PROJECT	DRAWING	REV
10854	510	P1