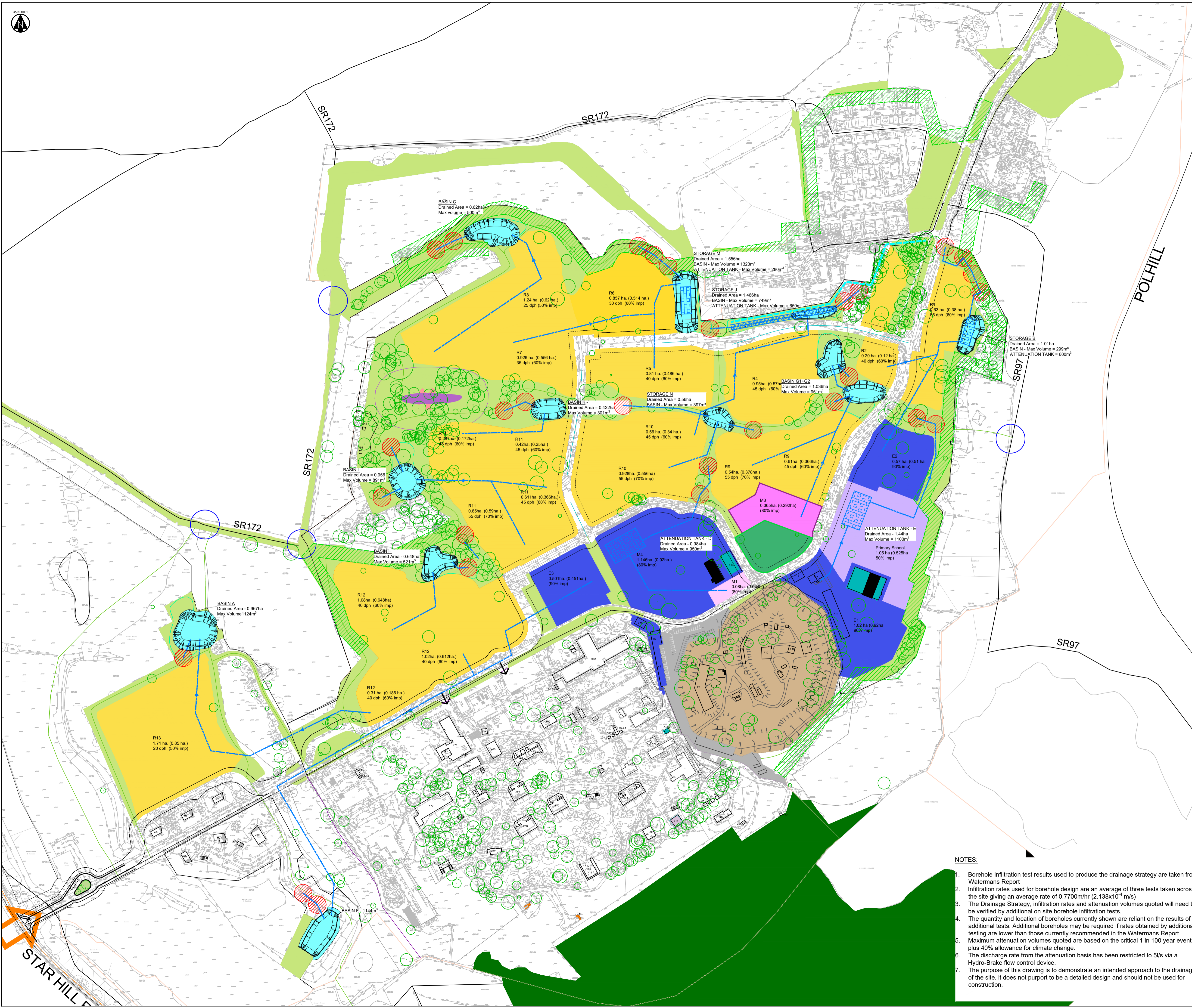


4. Scoped Out Technical Assessments

Appendix 4.1

SURFACE WATER & FOUL DRAINAGE STRATEGIES



KEY PLAN

- Proposed soakaway borehole (with 10.0m offset to adjacent boreholes)
- Indicative primary flow route
- Proposed mixed use plot
- Proposed residential plot
- Village Green
- Proposed employment plot
- Primary School
- Approx 15.0m buffer zone from extent of Ancient Woodland
- Proposed attenuation pond
- Existing 'Category A' tree
- Below Ground Cellular Storage Tank
- Exceedance flow route cut off swale

REVISIONS

Rev	Date	Description	By	Ckd	App
P05	27/04/2020	Updated masterplan. Added basin N, adjusted basin SM	DB	DB	DB
P04	03/09/2019	Updated attenuation basin sizes and locations to suit updated layout.	SM	DB	DB
P03	04/03/2019	Update to attenuation features following Architects comments	SM	DB	DB
P02	05/02/2019	Updated attenuation sizing. Reviewed borehole locations and by restricting flow to boreholes to 5.0l/s	SM	DB	DB
P01	03/12/18	First Issue.	JLWI	DB	DB

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PROJECT: FORT HALSTEAD

TITLE: SURFACE WATER DRAINAGE STRATEGY

HYDROCK PROJECT NO. C-10730	SCALE @ A1 1 : 2000	STATUS S2
STATUS DESCRIPTION INFORMATION	DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER) 10730-HYD-XX-XX-DR-C-2201	REVISION P05

- NOTES:**
- Borehole Infiltration test results used to produce the drainage strategy are taken from Watermans Report
 - Infiltration rates used for borehole design are an average of three tests taken across the site giving an average rate of 0.7700m/hr (2.138x10⁻⁴ m/s)
 - The Drainage Strategy, infiltration rates and attenuation volumes quoted will need to be verified by additional on site borehole infiltration tests.
 - The quantity and location of boreholes currently shown are reliant on the results of additional tests. Additional boreholes may be required if rates obtained by additional testing are lower than those currently recommended in the Watermans Report
 - Maximum attenuation volumes quoted are based on the critical 1 in 100 year event plus 40% allowance for climate change.
 - The discharge rate from the attenuation basis has been restricted to 5l/s via a Hydro-Brake flow control device.
 - The purpose of this drawing is to demonstrate an intended approach to the drainage of the site. It does not purport to be a detailed design and should not be used for construction.