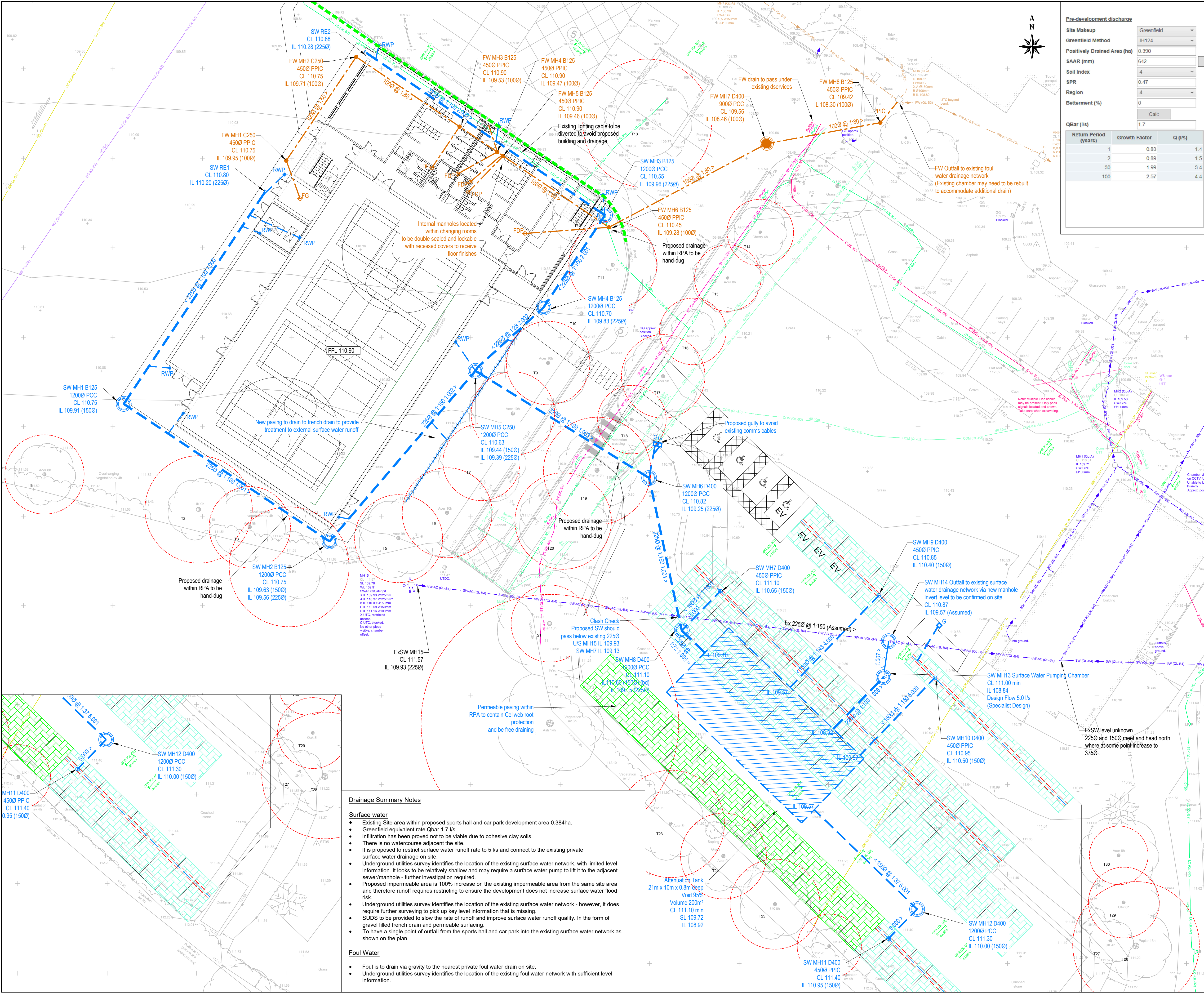




Pre-development discharge		
Site Makeup	Greenfield	
Greenfield Method	IH124	
Positively Drained Area (ha)	0.390	
SAAR (mm)	642	
Soil Index	4	
SPR	0.47	
Region	4	
Betterment (%)	0	
Calc		
QBar (l/s)	1.7	
Return Period (years)	Growth Factor	Q (l/s)
1	0.83	1.4
2	0.89	1.5
30	1.99	3.4
100	2.57	4.4

CDM Regulations:
The reader is notified that CDM regulations may apply to the contract, and that appropriate Health & Safety Risk Assessments and Method Statements will be needed to comply with the Regulations where applicable.

It is the Client's responsibility to make suitable arrangements for managing their project, enabling those carrying it out to manage health and safety risks in a proportionate way.

It is the Client's responsibility in appointing (IN WRITING) as soon as possible, appropriately experienced Contractors and Designers to the project (Including the Principal Designer and Principal Contractor) to carry out tasks as required under the Contract.

Further guidance on CDM Regulations can be obtained from the Health & Safety Executives website: www.hse.gov.uk/cis41.pdf.

Notes:

- Proposed finished floor level **FFL 105.660**
- Proposed private surface water drain **1500 @ 1:100**
- Proposed private foul water drain **1500 @ 1:100**
- Proposed Private Surface Water Drain (Rodding eye, Mini access chamber, PPIC with 1000 pipework)
- Proposed Private Surface Water Drain (PPIC with 1500 main runs, reduced access chamber PPIC, PCCIC)
- Proposed private geocellular storage crates
- Proposed private french drain
- Proposed private surface water gully
- Proposed private permeable block paving (Tanked) with perforated pipe carrier drain
- Proposed private package pump station - combined, foul & surface water
- Proposed private surface water pump main **1500 @ 1:100**
- Proposed Private Foul Water Drain (Mini access chamber, PPIC with 1000 pipework)
- Proposed Private Foul Water Drain (PPIC with 1500 main runs, reduced access chamber PPIC, PCCIC)

A	08.03.24	Design updated to Tender Stage	CLN
Rev:	Date:	Comments:	By:

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Client:
S2E

Project:
REDMOOR ACCADAMY SPORTS HALL

Title:
DRAINAGE STRATEGY

Drawn By: CN	Sheet Size: A1	Status: TENDER	Date: 11.08.23
Checked By: GB	Scale: 1:200	Revision: A	Drawing No: 2023_238_301

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- Drainage Summary Notes**
- Surface water**
- Existing Site area within proposed sports hall and car park development area 0.384ha.
 - Greenfield equivalent rate Qbar 1.7 l/s.
 - Infiltration has been proved not to be viable due to cohesive clay soils.
 - There is no watercourse adjacent the site.
 - It is proposed to restrict surface water runoff rate to 5 l/s and connect to the existing private surface water drainage on site.
 - Underground utilities survey identifies the location of the existing surface water network, with limited level information. It looks to be relatively shallow and may require a surface water pump to lift it to the adjacent sewer/manhole - further investigation required.
 - Proposed impermeable area is 100% increase on the existing impermeable area from the same site area and therefore runoff requires restricting to ensure the development does not increase surface water flood risk.
 - Underground utilities survey identifies the location of the existing surface water network - however, it does require further surveying to pick up key level information that is missing.
 - SUDS to be provided to slow the rate of runoff and improve surface water runoff quality. In the form of gravel filled french drain and permeable surfacing.
 - To have a single point of outfall from the sports hall and car park into the existing surface water network as shown on the plan.
- Foul Water**
- Foul is to drain via gravity to the nearest private foul water drain on site.
 - Underground utilities survey identifies the location of the existing foul water network with sufficient level information.