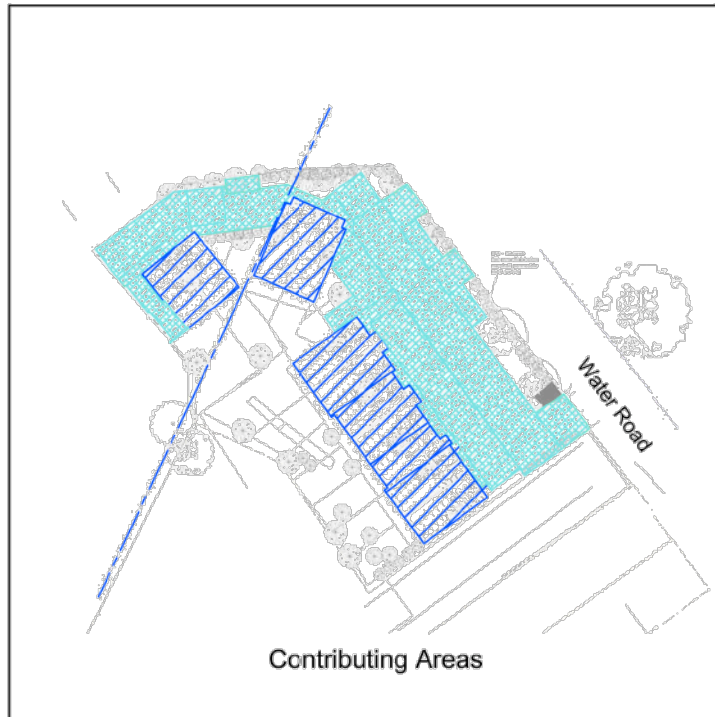




Tanked permeable paving to have minimum 0.3m depth of storage sub-base at 0.45m below surface, OGCR or gravel with 30% voids.
Base of sub-base to have nominal fall towards discharge point at manhole chamber, outlet pipe to have flexible top hat arrangement or other as specified by manufacturer.
Permeable paving to manufacturers design following CBR results.
Cut off linear drain to be installed and connected to manhole chamber as required by architect.

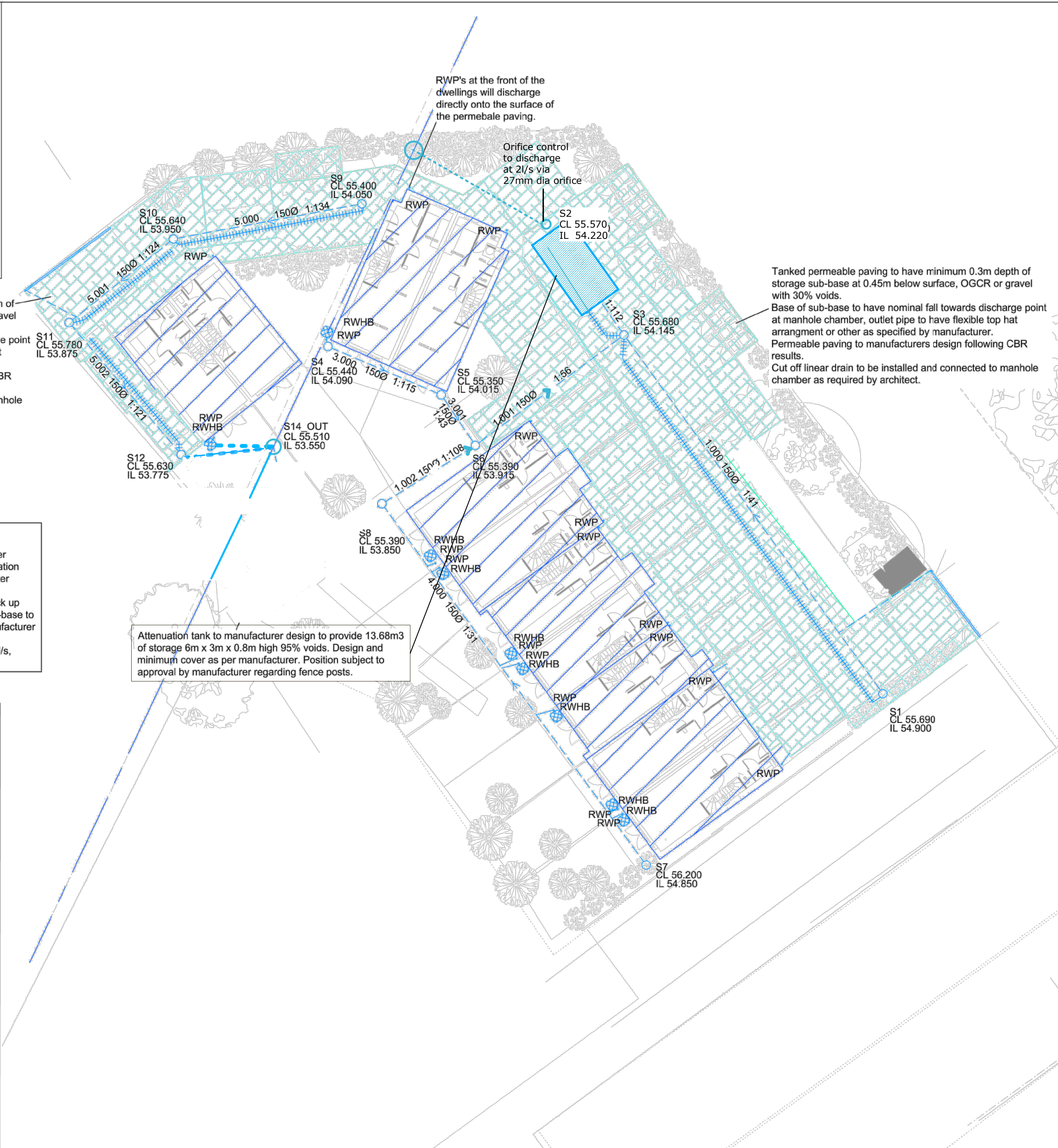
Drainage Strategy

- Surface water runoff will be attenuated by rainwater harvesting butts, permeable paving and an attenuation tank prior to discharging to the nearby surface water sewer.
- Permeable paving will discharge via perforated pick up drains or top hat type outlets, base of storage sub-base to fall towards pick up / discharge points, all as manufacturer design.
- Discharge rate will be controlled by an orifice to 2 l/s, subject to approval.

KEY:

- Tanked permeable paving (Type C) (785m²)
- Building cover (506m²)
- Attenuation tank

- RWP Rain water pipe
- Surface water drain
- S3 CL 67.000 IL 66.300 Surface water manhole with reference number
Cover level
Invert level
- RWHB Rain water harvesting butt
- Flow control at manhole
- Sub-base perforated pick-up drain
- Public surface water sewer



- Notes.
- Do not scale from this drawing.
 - All dimensions are in millimeters unless otherwise stated.
 - This drawing to be read in conjunction with all other relevant drawings and documents.
 - All drainage to be constructed to Civil Engineering Specification for Water Industry 7th Edition, current british standards and building regulations and other relevant standards.
 - Exact locations of rain water downpipes and other internal drainage down pipes to be confirmed by architect. Rain water pipe connections to have rodding access, sump and grated cover.
 - Contractor to confirm locations of existing services prior to commencement on site and to arrange for any necessary diversions, lowering or protection works as required.
 - All specialist drainage components such as attenuation tanks, flow control and pumping stations to be designed and installed as per manufacturers requirements.
 - Cover levels to be confirmed by landscape architect. Cover levels and invert levels are in meters unless otherwise stated. If cover levels change from assumed then drainage design should be re-assessed, especially in regards to extreme events.
 - Extent of linear drainage channel to perimeter of building to be confirmed by architect, design as per manufacturer.
 - Private surface water pipes to be 1000 with minimum fall of 1:100 unless otherwise stated.
 - Permeable paving and outlets to be as manufacturer design and recommendations.
 - Proposed ground levels will influence the storage capacity of the permeable paving and the position of the drainage pick up features. When proposed ground levels are complete the permeable paving design should be reviewed to ensure sufficient storage is provided and that the drainage pick up features are positioned correctly.
 - Minimum cover to thermoplastic pipes in garden or patio areas 0.6m, in driveway 0.9m, in road 1.2m, otherwise concrete protection will be required.
 - Access chamber cover class A15 for garden and patio, B125 for driveway, C250 for lightly trafficked roads or small private car parks.
 - * assumed levels and gradients, to be confirmed.
 - Assumed patio areas to drain towards garden.
 - Design is for planning purposes only and not for construction. Design should be confirmed prior to construction to ensure all available information is considered and any assumed information should be verified.
 - The invert level of the existing sewer should be checked to ensure a connection is suitable.
 - Exceedance routes to be confirmed following external levels design.

P01	17.01.23	Reserved app	DS	MG
Rev	Date	Detail	Drawn	Chkd

Client:
Mrs K Baker

Project:
65283.01 Water Road

Drawing Title:
Proposed Surface Drainage

GeoSmart
Information

Suite 9-11, 1st Floor, Old Bank Buildings, Bellstone, Shrewsbury, SY1 1HU

Drawn by: DS	Checked by: MG	Date: Jan 2023
Scale: 1:200 @ A2	Status: Preliminary	
Drawing No: 65283.01.100	Issue: P01	