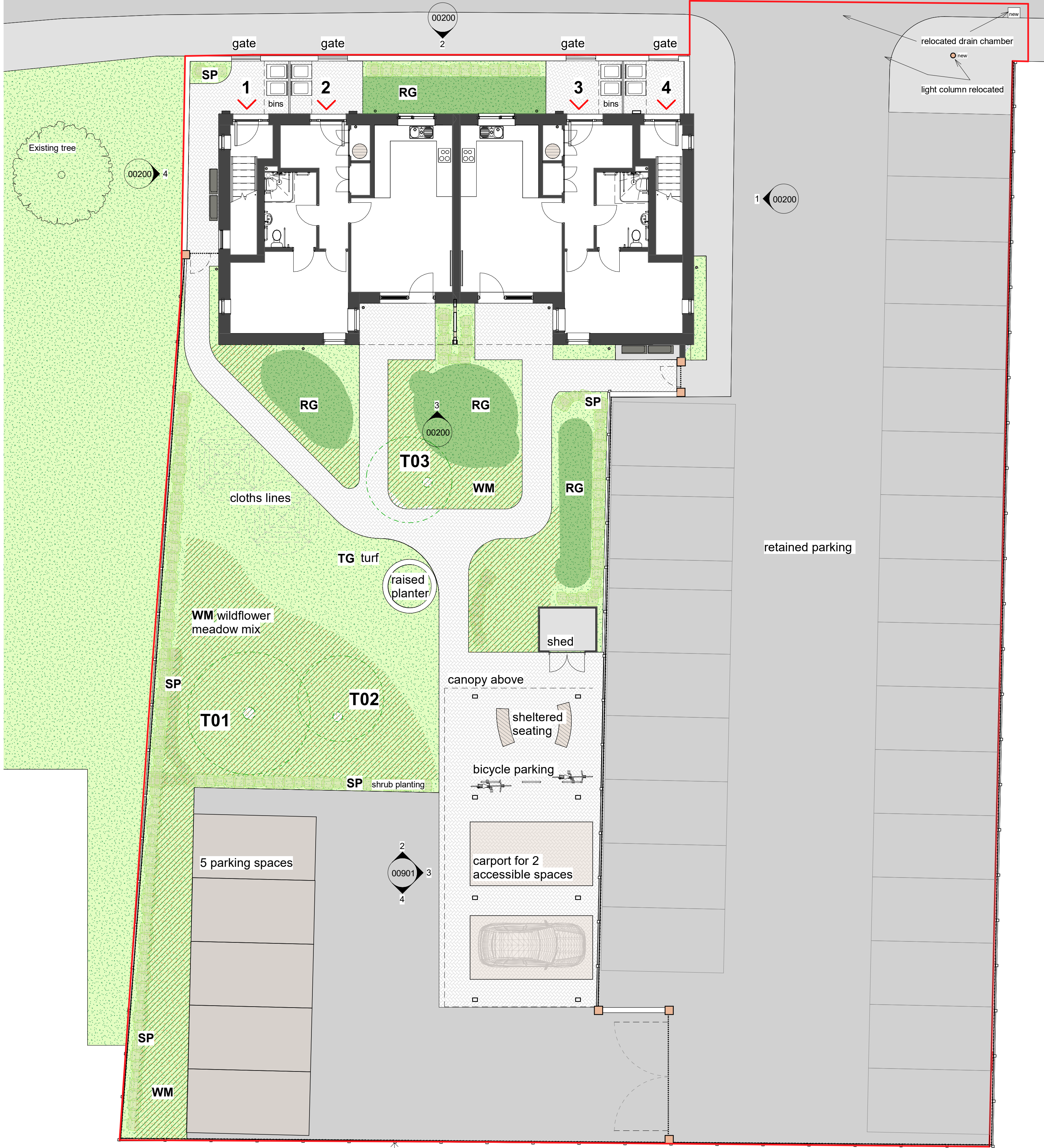




Green Infrastructure Statement

This Green Infrastructure Statement is submitted in support of the planning application for the development of four semi-independent living apartments on Main Road, Cadoxton. The statement outlines how the proposal incorporates green infrastructure to enhance the site's environmental, social, and ecological value.

Existing Site Context

Currently, the site is entirely occupied by a car park devoid of any soft landscaping. The proposal presents an opportunity to introduce green infrastructure to a previously impermeable surface, contributing to the area's ecological network and overall green character.

Proposed Green Infrastructure

The proposed development will introduce a generous, landscaped garden as a key element of the scheme. This south-facing garden will provide a variety of ecological habitats and contribute to the site's sustainable drainage strategy. The following elements of green infrastructure are incorporated:

- RG** Rai gardens: Approximately 50m² of raingardens with appropriate planting will be integrated within the garden to manage surface water runoff and provide a visually appealing landscape feature.
- TG** Turf grass area: An 80m² area of turf grass will provide an accessible and usable green space for residents to enjoy.
- WM** Bee-friendly wildflower meadow: A significant portion of the garden, exceeding 130m², will be planted with a bee-friendly wildflower meadow mix. This will enhance biodiversity, provide valuable habitat for pollinators, and contribute to the visual interest of the garden.
- SP** Shrub planting: A variety of shrubs will be planted along the garden edges to provide additional habitat, enhance privacy, and soften the built form.
- T01-3** Tree planting: Three new trees will be planted within the garden: two medium-sized species (**T03** silver birch and **T02** dogwood) and a larger accent tree, a **T01** Small-Leaved Lime (*Tilia cordata*), to provide shade, visual interest, and contribute to the character of the garden.

Sustainable Drainage Strategy

The proposed development will incorporate a sustainable drainage strategy to manage surface water runoff and reduce the burden on the public drainage system. The green areas within the front garden, the rear garden, and the access and parking areas will be designed to attenuate and filter rainwater. The raingardens within the rear garden will form a key component of this strategy, providing a natural and aesthetically pleasing solution for surface water management.

Benefits of Green Infrastructure

The proposed green infrastructure will deliver a range of benefits:

- Biodiversity enhancement: The variety of planting, including the wildflower meadow and shrub planting, will provide valuable habitat for a range of species, enhancing local biodiversity.
- Sustainable drainage: The green areas and raingardens will contribute to a sustainable drainage strategy, reducing flood risk and improving water quality.
- Amenity and well-being: The landscaped garden will provide an attractive and usable space for residents, promoting social interaction, relaxation, and a connection to nature.
- Climate change mitigation: The new trees and planting will contribute to carbon sequestration, helping to mitigate the effects of climate change.
- Placemaking: The green infrastructure will enhance the character and visual appeal of the site, contributing to the creation of a high-quality living environment.

The proposed development demonstrates a commitment to incorporating green infrastructure to enhance the site's environmental, social, and ecological value. The generous garden, sustainable drainage strategy, and variety of planting will create an attractive, biodiverse, and sustainable living environment for future residents.

00 - Green Infrastructure Plan

Rev	Description	Drawn	Checked	Date Issued
P1	Planning Issue	TS	TE	22.10.2024
P2	First Issue	TS		13.11.2024

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