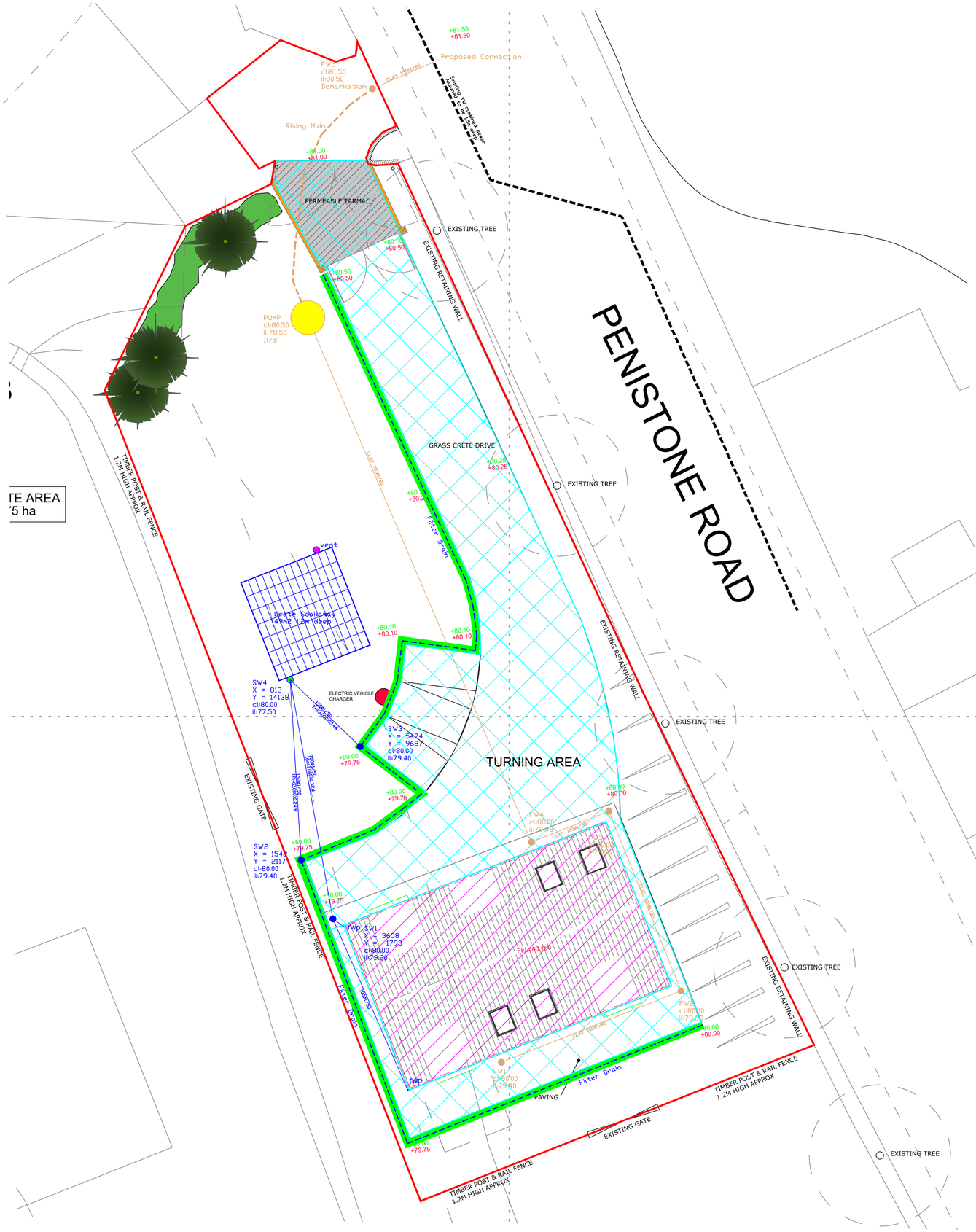
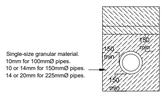


Pipe surround details

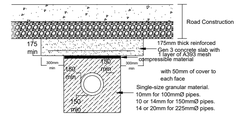


Typical detail through Class S Bed and Surround

Boxing/sheeting to be removed progressively during placement of the main backfill above the pipe to prevent displacement of the granular material.

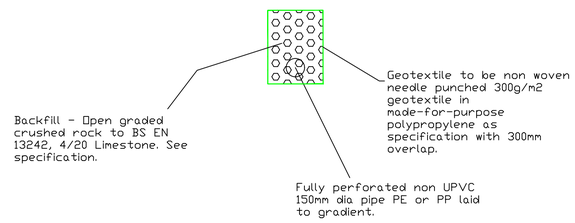
Sidefill material to be place evenly on both sides of the pipe taking care to work material under the lower quadrant of the pipe whilst ensuring the pipe is not tilted. Both sides of the trench should be filled simultaneously t o avoid horizontal movement of the pipe

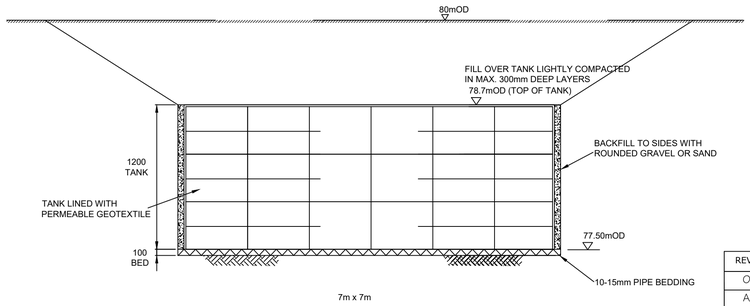
Trench fill under roads to conform with Highways requirements.



Typical detail through Class S Bed and Surround with concrete slab protection (to be used where sewer is less than 1200mm in depth in trafficked areas and less 900mm in un-trafficked areas)

Filter Drain Section 450mm x 600mm





CRATE SOAKAWAY - CROSS-SECTION (1:50)
To drain maximum area of 750m2

NOTES

1. Yard, roadway and car park surfacing design and construction to Engineer's Specification (by others).
2. All dimensions are in millimeters unless otherwise stated.
3. Pre-cast concrete products shall comply with the relevant provisions of BS 5911 and be 'Kite Marked'.
4. Manhole covers and frames, grids and frames shall comply with the relevant provisions of BS EN 124. D400 class manhole cover to be used within trafficked areas.
5. All ironwork within the adoptable highway and verges to be class D400.
6. All manholes and other ironwork within the highway to be bedded on M60 Epoxy mortar (to prevent progressive collapse in the future).
7. Do not scale from this drawing. If in doubt ask.

KEY:

- Site Boundary Areas 1745m2
- Roofed Impermeable Areas 220m2
- Permeable Tarmac/Grass Crete/ Permeable Paving Area = 530m2
- Filter Drain 450mm x 600mm deep with perforated 150Ø pipe
- Private SW Drainage
- Private FW Drainage
- Private FW rising main
- Existing Combined YW sewer
- +80.00 Existing site levels
- +80.30 Proposed site levels
- Proposed FW pumping station 1l/s approx 2m head
- SW manhole with 300mm sump
- Proposed Crate Soakaway 49m2 by 1.2m deep at depth 2.5mBGL

Surface Water Drainage

Client undertook percolation tests during July 2026. Silty subsoil's encountered with moderate permeability. Minimum infiltration rate of 0.2m/hr estimated and adopted for design. Drainage solution modeled using Causeway Flow for 100yr+CC40% return periods for a vanety of durations.

Foul Water Drainage

All FW drainage to existing YW combined sewer within Penistone Road. Contractor to determine sewer depth in road before undertaking FW drainage works and apply for S106 connection with YW.

Foundation Design

Wher Foundations are adjacent to permeable paving areas they are to be extended at least 150mm below the depth of the paving sub base system.

REV	DESCRIPTION	DATE
O	For Approval	22/09/26
A	For Approval	02/11/26

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Burton upon Stather
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Email : lea.favill@eweassociates.com

PROJECT
Proposed Residential Dwelling Land at Penistone Road Fenay Bridge

CLIENT
Mr Christian Smith

DRAWING TITLE
SW & FW Drainage

SCALE	DATE
1:150	02/11/26

DRAWN BY	CHECKED BY	REVISION
LJF	JF	A

DRAWING No
EWE/3510/01