

Key

- Domestic Foul Drain with TYPE 4 Inspection Chamber and Invert Level, Pipe Size and Gradient
- Domestic Foul Drain with TYPE 3 Inspection Chamber and Invert Level, Pipe Size and Gradient
- SIC — Domestic Foul Drain with Sampling Inspection Chamber and Invert Level, Pipe Size and Gradient
- STP — Sewage Treatment Plant - Based on WPL Diamond Plant. Final design and installation to specialist manufacturer details and requirements
- K — STP Kiosk
- DT1 — Treated effluent discharge trench designed in accordance with BS6297 (2007+ A1: 2008)
- Domestic Sutrface Water Drain with TYPE 3 Inspection Chamber and Invert Level, Pipe Size and Gradient
- ST — Domestic Surface Water Drain with Silt Trap Inspection Chamber and Invert Level, Pipe Size and Gradient
- Domestic Surface Water Rodding Eye and Invert Level (Invert 500mm below ground level unless noted otherwise), Pipe Size and Gradient
- So1 — Proposed domestic trench soakaways. Size based on measured infiltration rate and designed in accordance with Environment Agency criteria for 1 in 100 year storm event plus 40% for climate change. Soakaways to be sited a minimum of 5.0m from new dwellings.
- ACO slot drain across entrance at junction of adopted highway
- Porous block paved access road construction
- Porous block paved drive and parking construction
- New access construction in accordance with WSCC specificationand details and subject to mini S278 Agreement
- 35.750+ — Proposed Spot Level

Notes:

1.All levels are to local Datum.
2.All Highway work's on or adjacent to existing public highway shall be executed in accordance with the Traffic Safety Code for Roadwork's and Chapter 8 of the Traffic Signs Manual.
3.At the commencement of works on site the contractor is to carry out trial pits and liaise with Utility Companies in order to establish the exact position of all existing statutory utility plant in the vicinity of works and take adequate precautions or their protection.
4.The Contractor is to comply fully with the CDM Regulations in the course of constructing the works.
5.Highways in the vicinity of the works must be kept free from mud, debris and dust falling from vehicles or the wheels of vehicles connected with the works.
6.Prior to construction of any drainage works, the Contractor is to confirm the invert levels of existing manholes and sewers. Any variations from the designed levels shown on the drawings shall be reported to the Engineer in advance of construction works commencing.
7.All drain and sewer pipes to be laid soffit to soffit, unless shown otherwise.
8.Sewer trench backfill to be in accordance with the Adoptable Drainage Details.
9.Minimum gradient for 100Ø SW is 1:100 and 100Ø FW is 1:80 with one WC connected otherwise 1:40. Bedding for domestic drainage Class B. All pipe runs near buildings to comply with the Building Regulations 2010 Part H1.
10.Position of soil pipes, standing wastes, wc outlets etc. are shown on the Architect's working drawings. Rainwater downpipe positions are to be checked against Architects details to ensure compatibility. Rainwater downpipes to have rodding access facilities where surface water drainage passes under buildings.
11.All concrete and concrete products to be in accordance with BRE 363 for sulphates.
12.All slab levels shown are for guidance only and may need to be adjusted on site, subject to approval by the engineer.
13.Do not scale from this drawing, work only from stated dimensions or setting out details.
14.Refer to tables for manhole schedules

SOAKAWAY DETAILS-Domestic Trench Soakaways

Soakaway Ref	Area Draining m^2	Width m	Length m	Ground level	Invert level incoming pipe	Soakaway base Invert	Infiltration Zone
So1	90	0.8	6.0	51.00	50.40	49.85	2
So2	90	0.8	6.0	51.00	50.40	49.85	2
So3	108	0.8	10.5	50.60	50.20	49.40	1
So4	131	0.8	11.5	50.50	50.20	49.20	1

Infiltration Zone

Infiltration Zone	Soakage Rate (m/s)	Soakage Rate (m/hr)
1	3.1843 E-05	0.12173
2	1.00 E-04	0.3600

Infiltration rates have been measured on site in accordance with BRE365.

SAFETY, HEALTH & ENVIRONMENTAL INFORMATION
CDM Regulations 2015

In addition to the hazards/risks normally associated with the type of work detailed on this drawing note should be made of the following:

- Working in vicinity of live highway
- Services to be located prior to any excavation work being undertaken
- Working on live foul sewers
- Deep excavations

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement. Contractor is not relieved of any of his obligations under all applicable health and safety regulations.

Rev.	Date	Details	Initials
B	05.09.17	Surface water drainage added	KN
A	29.08.17	Initial issue	KN

Drawing Status
PRELIMINARY

Project
PROGRESS GARAGE
WALBERTON

Client
DOMUSEA

ESCHER · SILVERMAN
Civil & Structural Consulting Engineers
The Stables, Lone Barn Studios, Stanbridge Lane, Romsey, Hampshire. SO51 0HE.
Tel: 01794 521213. Fax: 01794 522195. email: mail@escher.co.uk
www.eschersilverman.co.uk

Drawing Title
Engineering Details
Drainage Layout

Drawn	Checked	Scales	Paper Size	Date
KN		1:200	A1	08.17

Job No.	Drawing No.	Revision
ES1738	502-01	B

This drawing is the copyright of Escher Silverman and may not be copied, altered or reproduced in any form or passed to a third party without the consent of Escher Silverman. Do not scale from this drawing, use figured dimensions only.
Dimensions should be checked and verified on site and any discrepancies should be reported to Escher Silverman as soon as possible.

ARUN DISTRICT COUNCIL WA/99/15/PL