



INSET 1
CONNECTION INTO THE LLFA MANHOLE
SCALE : 1:200

ALL SURFACE AND FOUL PLOT DRAINAGE
CONNECTION LOCATIONS BE CONFIRMED
BY ARCHITECT PRIOR TO CONSTRUCTION

Proposed
Minimum
The after
30% clim
Discharge
Alternat
points for
Adoptabl
Geotile A

Proposed attenuation tank
Minimum volume required = 163.2m³
The attenuation has been designed based on the 1 in 100 year +
30% climate change allowance, agreed with LLFA.
Discharge rate of 3.5L/s has been agreed with LLFA.
Attenuation to be provided by PCC attenuation tank with access
points for maintenance purposes.
Adoptable Attenuation: 16m x 7.5m x 1.5m deep SDS Limited
Geotile Attenuation tank.

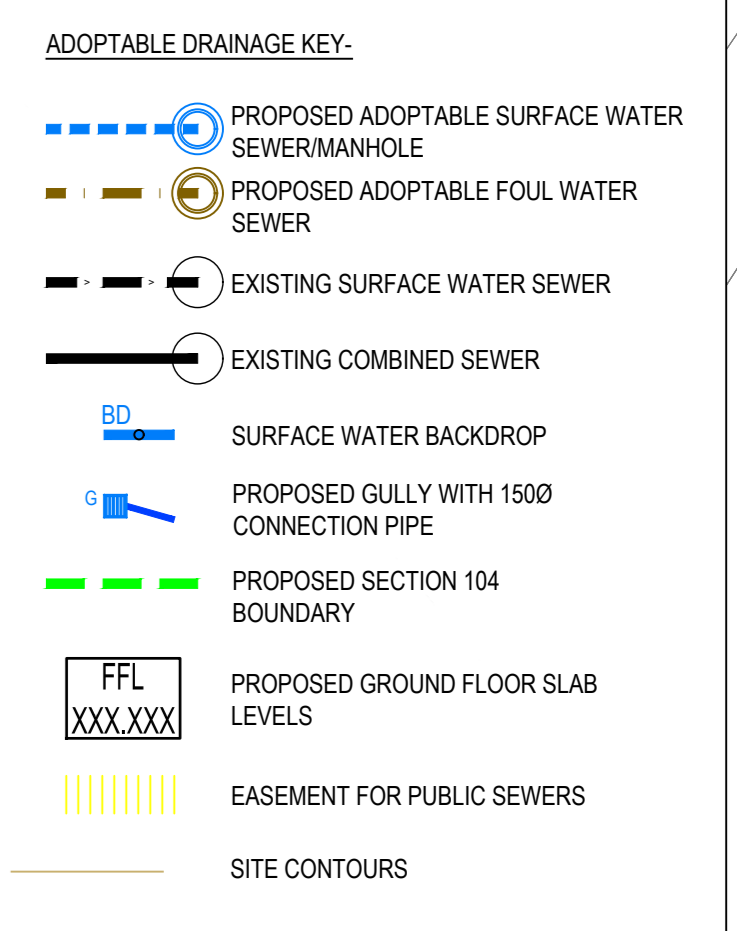
Pipe length immediately downstream
of Proposed Section 104 sewers and
SW11 are to be adopted under Section
102.

THE TOTAL DISCHARGE INTO
FW2 FROM PRIVATE PUMP
STATIONS TO BE 2.5l/s.

New connection into existing
Yorkshire Water manhole.

EXMH8102
CL 183.42
IL 180.2

EXMH8102 will need to be
inspected by a Yorkshire
Water inspector to ensure it
can accommodate the
proposed connection and to
check if any remedial works
are required (it may be
necessary to reconstruct the
manhole).



ADAPTABLE DRAINAGE KEY:

- PROPOSED ADAPTABLE SURFACE WATER SEWER
- PROPOSED ADAPTABLE FOUL WATER SEWER
- EXISTING SURFACE WATER SEWER
- EXISTING COMBINED SEWER
- SURFACE WATER BACKDROP
- PROPOSED GULLY WITH 1500 CONNECTION PIPE
- PROPOSED SECTION 104 BOUNDARY
- PROPOSED GROUND FLOOR SLAB LEVELS
- EASEMENT FOR PUBLIC SEWERS
- SITE CONTOURS

YORKSHIRE WATER STANDARDS/NOTES

An adoptable sewer works and material to be in accordance with Sewerage Sector Customer Energy and Control Standards (Sewerage Sector Customer Energy and Control Standards) and Yorkshire Water's Standards/Requirements/Adoptable to the Mechanical and Electrical Specification and Generation.

Manhole covers shall have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 100mm deep frames in highways.

Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water prior to sewer works and shall be carried out.

Yorkshire Water is obliged to accept filter drain discharge run-off into the public sewer network or adoptable drainage system (directly or indirectly). An alternative method of disposal of the drain discharge run-off shall be provided and agreed with Yorkshire Water prior to construction. The filter drain discharge run-off shall be provided and agreed with Yorkshire Water prior to construction.

The adoptable sewers should be a minimum of 1m and 80mm from kerb face and service road.

Sewers to be set in Class "D" Existing (150mm granular bed and surround). Where depth of cover to top of sewer is less than 1.2m in highways and less than 1.0m in non-highway areas then a concrete slab should be provided above ground level and surround.

Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).

Yorkshire Water policy is that Type "C" brick manholes and 150mm diameter manhole rings are not permitted. It is preferred that pipe use a type "B" manhole with 1200mm diameter or 1000mm diameter rings, with the opening sized over the channel where depth of cover to pipe soffit is 1-1.5m.

Adoptable sewer pipes to be BS 6841 (certified by WRc) or BS 5911-3 and BS 5911-5. Adoptable sewer pipes to be BS 5911-3 and BS 5911-5. The minimum crushing strength for concrete pipes should be: Class 120 to BS EN 12920 (1:1.20). Plastic pipes should conform to WRc BS 5911-3/5.

The minimum crushing strength for clay pipes should be as follows: 100mm dia. 40N/25mm dia. 25N/20mm dia. 150mm dia. 25N/20mm dia. 75N/20mm dia. The minimum crushing strength for concrete pipes should be: Class 120 to BS EN 12920 (1:1.20). Plastic pipes should conform to WRc BS 5911-3/5.

Where a B125 cover and frame has been approved, this must not be coated in plastic and must have 18mm eye visibility to accommodate standard 18mm keys. Some cover covers are not acceptable.

There must be enough clearance at manholes to accommodate bedding in both pipes approx. 300mm. If crossover is near the node then the clearance may need to be increased.

Highway Notes

Proposed concrete manhole units including their PCC cover slabs shall comply with the relevant provisions of BS EN 1917 and BS 5911-3 and shall be manufactured from concrete with a Compressive Class Class C35/45 unless otherwise specified. Soil analysis can be provided that a lower class will resist attack from soils and ground water.

All manhole functional details should clearly show a rim cover depth of 300mm to PCC cover slabs in compliance with the requirement of BS 5911-3 (Table 7).

Cover slabs shall comply with the requirements of BS 5911-3:2015-A1:2014 Table 5 and Figure 8.

All PCC units in concrete manholes must have a design working life of 100 years (min) in accordance with BS 5911-3:2015-A1:2014 Table A.1. This is intended to ensure that all circular overhead manholes with D125 dia. classed as "Structure" installed in the highway will comply with the same regulatory durability requirement as other highway structures).

A Construction Compliance Certificate (CCC - see attached) in accordance with CC300: Technical Approval of Highway Structures (Appendix A) will need to be submitted following completion of construction of the adoptable drainage works. Please do not exceed the working life in this template. The CCC will need to be signed by a competent engineer and a principal of the contractor together with a competent engineer from the design organization or a Water Engineer and submitted to Yorkshire Water for approval. The CCC drawings to be submitted to Yorkshire Water for approval are: "As Built" drawings to the Technical Approval Authority (TAA-Formal Details) for adoptable sewer construction.

ALL LEVELS OF THE EXISTING
SEWERS HAVE BEEN CHECKED
ON SITE AND ARE CORRECT AS
SHOWN.

Control:

STN	East	North	Level	Type
V1	414833.974	409120.237	183.299	Nail
V2	414870.338	409174.405	183.329	Nail

Notes:

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All dimensions are in metres unless noted otherwise.

DO NOT SCALE THIS DRAWING - IF IN DOUBT ASK

- All dimensions & levels to be checked by the contractor prior to commencement of work, any discrepancy shall be reported immediately to Avie Consulting Ltd.
- All work shall be carried out in accordance with Local Authority, statutory authority, health & safety requirements and regulations.
- The drawings shall be read in accordance with all other contract documents relevant at that time of issue and during the period of the contract.
- The contractor must ensure the overall stability of the works is adequate at all stages of the construction.
- No allowance has been made for cutbacks, holes, notches, etc. for services, all of these are to be agreed prior to the start of the works.

Client: GSM Developments Ltd

Project: Residential Development, Pentlands, New Mill Road, Holmfrith

File: Proposed S104 Drainage Layout

Drawn: S.T.P. N.A. Date: Oct 2023 Scale: 1:100 Original by: AD

Checked: P3052-01 P06

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