



- KEY**
- Development Boundary
  - Proposed Section 38 Highway Gully & Connection
  - Proposed Section 104 Storm Sewer
  - Proposed Section 104 Foul Sewer
  - Proposed Section 185 Foul Sewer Division
  - Proposed Section 185 Foul Rising Main Division
  - Proposed Section 104 Storm Lateral Chamber
  - Proposed Section 104 Foul Lateral Chamber
  - Proposed Section 106 Storm Lateral Chamber (as noted)
  - Existing Storm Water Sewer
  - Existing Foul Water Sewer
  - Existing Foul Water Rising Main
  - Proposed Sewer Easement
- 1 - Groundwater**
- Proposed Section 106 Connection (Foul)**  
Discharge into existing sewers subject to S106 approval by Southern Water (to be submitted by Contractor).
- Hydro-Brake Flow Control Chamber**  
Proposed Ø3000 Manhole with Hydro-Brake (specification as shown) and sump (silt trap) to restrict storm water discharge from site.
- Existing Sewer Connection (Foul)**  
Invert levels and location of the existing sewer to be confirmed to Engineer by Contractor at least 3 weeks prior to commencement of any site works.
- Mesh Screening**  
Mesh screen to be placed over the outlet pipe of chambers S12, NW2 S3 and F10 during site construction works and removed immediately prior to the first occupancy of the dwellings served by the sewers.
- Existing Ordinary Watercourse Connection**  
Connection and discharge into ordinary watercourse subject to approval by the LLFA & IDB. Bed levels are to be reconfirmed on site to Engineer by Contractor 3 weeks prior to commencement.
- Easement Relaxation / Build Near Agreement**  
Easement relaxation / Build Near to a public sewer application required based on building proximity subject to approval by Southern Water.
- Localised Raised Levels**  
Levels to be raised locally to ensure a minimum of 0.900m cover to the outfalling pipes.
- Foul Lateral Connection**  
Foul lateral connection to discharge to Section 185 foul sewer diversion. This is to be adopted by SW via a S106 application.

Health and Safety Symbols refer to reference numbers indicated on Designers Risk Assessment no. 21184-RL-20-XX-HS-C-001

- Health & Safety Information Key**
- Used to provide design specific safety information that may not be obvious to a competent contractor but may be useful.
  - Used to restrict/prevent a possible action, eg: stop construction traffic from entering an area.
  - Used to warn of significant design hazards, adding recommendations
  - Used to encourage a positive action, e.g. use of robust protection for inspection chambers

- GENERAL NOTES**
- Do not scale this drawing. If in doubt, ask.
  - This drawing is to be read in conjunction with all other relevant Engineers, Architects and specialist design drawings and details.
  - All dimensions are in metres unless noted otherwise. All levels are in metres unless noted otherwise.
  - Any discrepancies noted on site are to be reported to the Engineer immediately.
  - Sewers shall be constructed to the satisfaction of Southern Water and in accordance with Appendix C of the UK Water Sewerage Sector Guidance "Design and Construction Guidance" 2020.
  - All clauses referenced relate to Appendix C of the UK Water Sewerage Sector Guidance "Design and Construction Guidance" 2020, unless noted otherwise.
  - The Contractor shall check all tie-ins for line and level with existing at least 3 weeks prior to the commencement of any works. The Engineer shall be notified immediately in writing, should any errors be found.
  - It is the responsibility of the Contractor to locate any service apparatus in the vicinity of the works.
  - It is the responsibility of the Contractor to execute the works at all times in strict accordance with the requirements of the Health And Safety At Work Act 1974, and the C.D.M. Regulations 2015. The Contractor will be deemed to have allowed for full compliance, including full liaison with the Principal Designer, within his rates.
  - The Contractor is responsible for ensuring that all works are to the satisfaction of the site Engineer, and shall be deemed to have included within his rates for any necessary testing.
  - The Contractor will be responsible for providing all necessary de-watering and trench support to execute the works in a satisfactory manner, and shall be deemed to have allowed for the same within his rates.
  - All buried concrete products and mortar shall be made using sulphate resisting cement.
  - All pipes 225mm dia or less shall be Extra Strength Vitrified Clay. Pipe joints shall be spigot and socket joints. Sleeve type joints will not be permitted. 300mm and above to be class 120 concrete.
  - All pipes shall be laid with soffits level unless stated otherwise.
  - Design subject to approval by KCC and SW.
  - Where FW crosses above SW the pipe trench to be lined with 1,000 gauge impermeable membrane to eliminate any chances of cross contamination.
  - Infill covers and frames within block paved areas are not to be used.
  - Easements at any change of width should be 3.0m either side of pipes up to Ø375mm, and 3.5m either side of pipes greater than Ø375mm.
  - All manhole covers to be in accordance with the BS EN 124. Class D400 and embossed FW or SW as appropriate.
  - All manhole covers and frames to be kitemarked.
  - Protective concrete cover slabs to be used on pipes in non-trafficked areas which don't achieve 900mm cover and in trafficked areas that don't achieve 1200mm cover.
  - Precast concrete manhole rings are not to be cut under any circumstances.
  - All proposed landscaping and tree planting adjacent to sewers shall be in accordance with clauses B5-1.10 and B7.6.
  - Latest Architect Layout: 0058-LGMH-PL-DR-A-1014 P31
- NOTE: DESIGN SUBJECT TO SECTION 104 APPROVAL. ANY WORKS CARRIED OUT PRIOR TO APPROVALS AND AGREEMENTS BEING IN PLACE ARE DONE SO AT DEVELOPER'S OWN RISK.**

E	24.05.22	Revised to show western ditch changes including additional culvert	JZ	NMF
D	20.05.22	Updated northern and eastern ditch. Dry basin note added	JZ	NMF
C	19.05.22	Revised to suit latest Layout P31	JZ	NMF
B	17.05.22	Revised to suit latest layout	JZ	MJA
A	03.09.21	Drawing number revised, NW2 updated to include second basin & laterals removed as per L&G comments received 17.08.21	BRM	MJA
Rev	Date	Amendments	By	Chk

**RLRE**

Client

**LEGAL AND GENERAL MODULAR HOMES**

Project

**VICTORIA ROAD WEST, LITTLESTONE, KENT**

Drawing Title

**SECTION 104 LAYOUT**

Status

**TENDER**

Scale	Drawn	Checked	Date
A1@1:500	BRM	NMF	13.08.21

Drawing No.

Rev.

**0058-RL-00-XX-DR-C-1000**

E

Scale Bar:

1:500

0 10 20 30

Copyright © Rodgers Leask Limited

St James House • Mansfield Road • Cheltenham • Gloucestershire • Tel: 01332 385000 • Fax: 01332 201728 • www.rodgersleask.co.uk