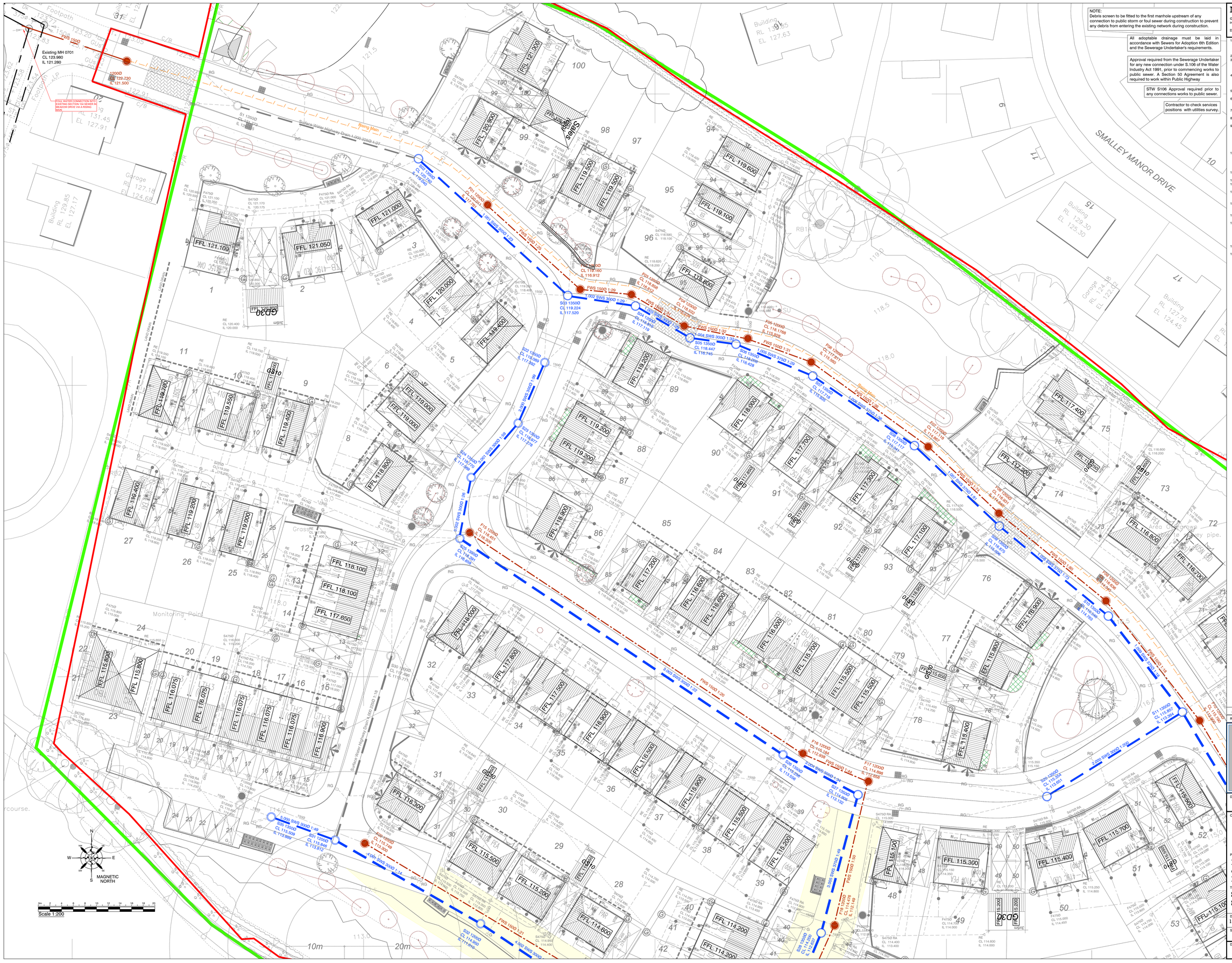

NOTE:
Debris screen to be fitted to the first manhole upstream of any connection to public storm or foul sewer during construction to prevent any debris from entering the existing network during construction.

All adoptable drainage must be laid in accordance with Sewers for Adoption 6th Edition and the Sewerage Undertaker's requirements.

Approval required from the Sewerage Undertaker for any new connection under S.106 of the Water Industry Act 1991, prior to commencing works to public sewer. A Section 50 Agreement is also required to work within Public Highway

STW S106 Approval required prior to any connections works to public sewer.

Contractor to check services positions with utilities survey.

Notes

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Drawings must not be scaled. Work to figured dimensions only

1. Before work commences, the contractor shall liaise with all Statutory Authorities to determine the exact location of all apparatus and take all precautions deemed necessary to locate, protect and where necessary divert such equipment.
2. All works to comply with relevant specifications.
3. This drawing is subject to approval by Local Authority, Building Control, Sewerage Undertaker and the Environment Agency. Any works undertaken prior to the granting of these approvals is carried out at risk to others.
4. Prior to commencing work on the drainage, all existing drains, sewers manholes and outfalls to remain shall be located, identified and a CCTV condition survey carried out. Where necessary, protection to the existing drainage infrastructure shall be provided.
5. All existing sewers and manholes abandoned due to the proposed works are to be either removed and suitably backfilled or grouted up.
6. Any existing details which are shown on this drawing are for guidance only and are to be checked on site by the contractor. Any variations are to be recorded and reported to the Engineer immediately.
7. Cover levels for manholes are approximate only and should be adjusted to match surrounding levels.
8. In block paved areas 'infill' type covers should not be used and frames must be 150mm deep.
9. All manhole and drainage covers shall comply with BS EN124. Manhole covers within block paved area and buildings shall be recessed. Cover strengths to be:-
   Class E600 in areas of heavy loading.
   Class D400 in heavy trafficked areas (roads, services yards).
   Class C250 Lightly trafficked areas (car parks).
   Drainage pipes 100mm diameter unless stated otherwise.
10. Pipes to be :-
    Vitrified clay to BS EN 295 or Concrete to BS 5911 or UPVC pipes to BS EN 1452 or Thermoplastic Structured wall pipes complying with WIS 4-35-01. BSI Kitemarked. Class 8kM/m² nominal short term ring stiffness.
11. All sewer pipes 300mm diameter or larger, to be concrete pipes, to BS.5911, unless noted otherwise.
12. All pipes to be laid with soffits level, unless noted otherwise.
13. Where cover to pipes is less than 1200mm under carriageway - concrete bed and surround or concrete protection slab is required.
14. All concrete to drainage, manhole bases, surrounds etc to be in accordance with the BRE special digest 1 - Concrete in aggressive ground. Refer to site investigation report for sulphate requirements.
15. All manholes, pipe trenches etc. to be backfilled with imported granular fill to Class 6F1-6F5 (Capping material) to (SHW) Table 6/1 & compacted in accordance with Table 6/4.
16. All pipelines shall be tested both before and after backfilling, using either air test or water test, in accordance with BS EN 1610.
17. Upon completion of the drainage works all drains shall be flushed out and CCTV surveyed and shown to be free of all silt and debris and to have no joint displacements or other defects. A copy of the written report and video is to be forwarded to the Engineers for comment. Any defects shall be attributable to the contractor for rectification unless indicated otherwise by the CCTV report and agreed with the Engineers.
18. Demarcation manholes and lateral drains need to be constructed in accordance with the Water UK/WRc "Design Construction Guidance".
19. All works to sewers/ manholes being offered for adoption or on existing public sewers should be in accordance with "Design Construction Guidance" and the Adopting Water Authority's recommendations.

KEY

- Existing Storm Drain
- Existing Storm Drain Abandoned
- Existing Foul Drain
- Existing Foul Drain Abandoned
- Foul Drainage Offered for Adoption
- Foul Manhole Offered for Adoption
- Foul Rising Main Offer for Adoption
- Storm Drainage Offered for Adoption
- Storm Manhole Offered for Adoption
- Proposed Sewer Easement
- Site Boundary

Refer to Design and Construction Guidance documents for all adoptable drainage details.

REV	DATE	AMENDMENT	BY
A	08.06.21	Updated to Latest Layout	BPL

MUCKLOW & HARRIS
CONSULTING CIVIL & STRUCTURAL ENGINEERS

DRAWING STATUS:
COMMENT / APPROVAL

CLIENT
miller homes

PROJECT
Land East of Pastures Drive
off Adale Road & Heanor Road
Heanor Gate DE75 7QZ

TITLE
S104 Adoptable Plan
Sheet 1 of 2

DATE	DRAWN
11.05.21	BPL

SCALE	SIZE	CHECKED
1:200	A0	RAA

DRAWING NUMBER	REVISION
20044-121	A