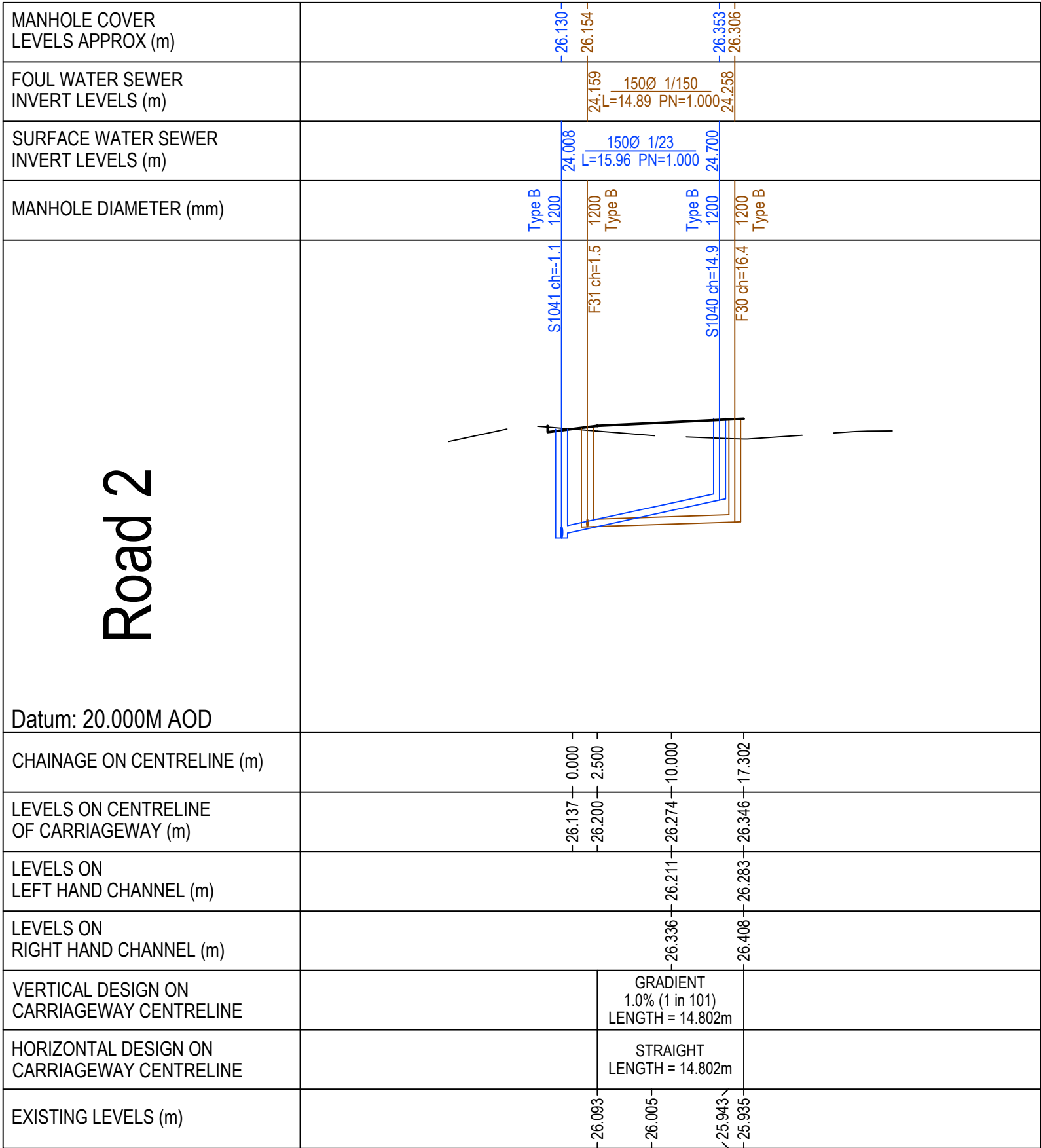
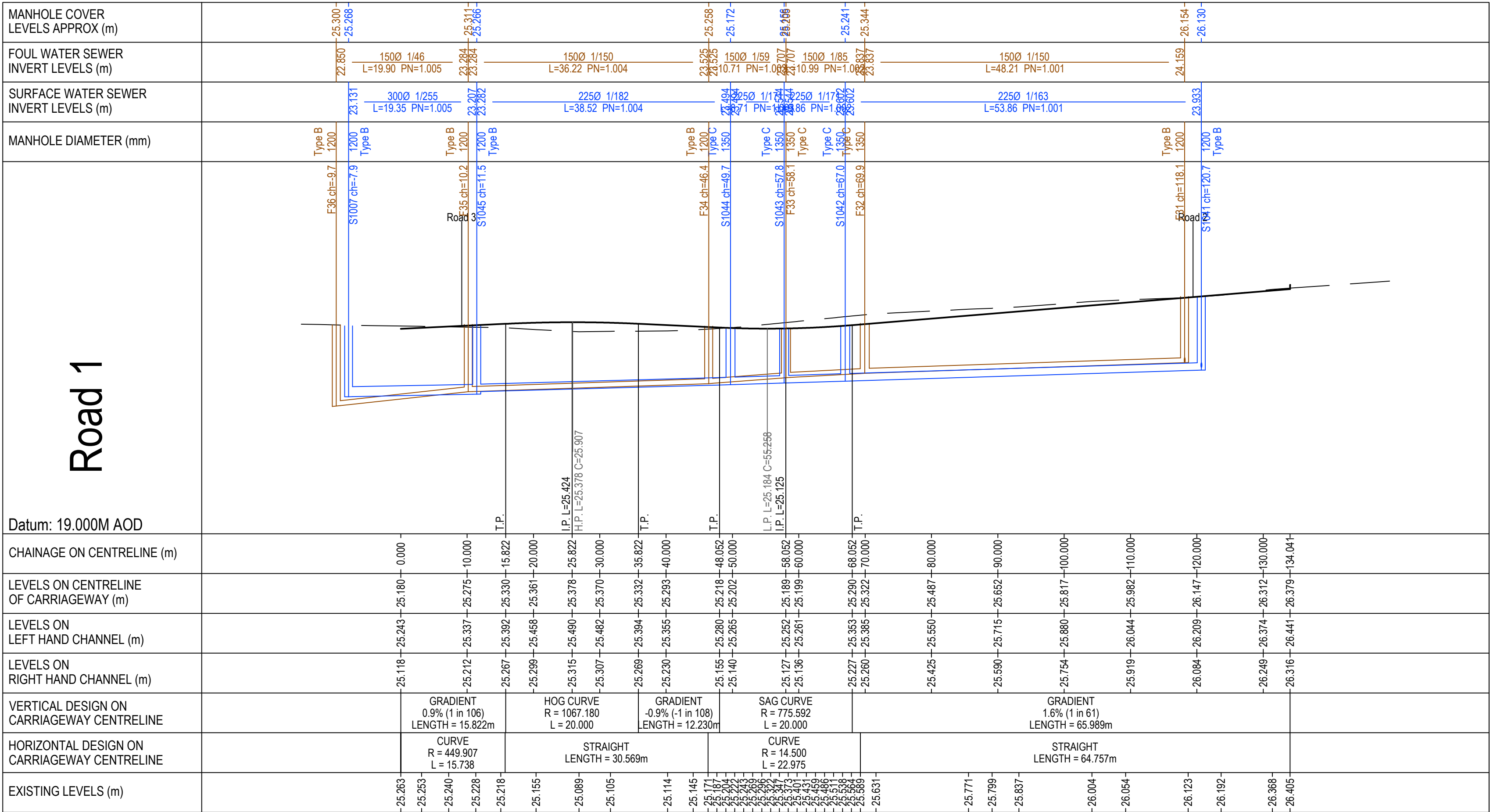




Foul and Surface water sewers are shown indicatively. The sewers have been designed by PFA Consulting. This drawing should be read in conjunction with PFA's Section 104 drawings. Any discrepancies between levels should be flagged up.

NOTES

- All pipes shall be either:
A - Icosia Water accept the use of plastic pipes in adoptable sewers, provided they comply with the following standards: -
Solid Wall PVC-U to BS EN 1401
Spiral Wound Welded HDPE to EN 13476 Parts 1 & 2
Structure-wall Thermoplastic to EN 13476 Parts 1 & 3
Polypropylene to BS EN 1852
B - Vitrified clay to BS EN 295 with a minimum crushing strength as follow :-
150 dia. - 40 kN/m
225 dia. - 45 kN/m
300 dia. - 72 kN/m
C - Class 120 concrete to BS EN 1916/BS5911-1 2002.
- All pipes should always connect soffit to soffit unless noted otherwise.
- All sewers to have BSI kitemark status. Maximum pipe length to be 3m. Plastic channel sections in manholes are not acceptable, clay channel sections shall be used.
- Sewers to be laid in Class "S" bedding (150mm granular bed and surround). Where depth of cover to soffit is less than 1.2m in highways and verges (or less than 900mm in none vehicular access areas) then a reinforced 150mm concrete slab should be provided above granular bed and surround.
- Manhole covers shall have a clear opening of 675 and shall be class D400 to BS EN 124 with 150 deep frames in highways. Covers to have closed keyways and are to be bedded on steel shims with 1:3 mortar haunching.
- Pipes entering manholes and road gullies shall have a flexible joint within 675 of the inside the manhole or gully joining with a short Rocker pipe.
- The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
- Sewers must have 5m clearance from trees and hedges (refer to Figure 2.3 page 33 in "Sewers For Adoption" 6th Edition for restrictions on tree planting adjacent to sewers).
- All trenches in roads and paved areas shall be backfilled with Type 1 DOT granular sub-base material, or other granular material approved by the highway authority.
- Filled ground must be filled and consolidated under the supervision and to the satisfaction of Icosia Water before any sewer works are carried out.
- All insitu concrete to be designated mix FND2 to BS 8500-1 unless agreed otherwise.
- The invert levels at the proposed points of connection to existing public sewers and sewers by others under previous phases, shall be checked before any new drains are constructed. Any variation to the levels shown on the drawing shall be notified to Eastwood & Partners.
- The chamber size of manholes with more than one connection in them may need to be increased by an increment to accommodate the connections and bends.
- Cover levels are indicative only. Covers to be set to suit camber/gradient of existing and proposed roads.
- Cover slabs must carry the BSI Kitemark or will be rejected by the Icosia Water inspector. Where the clear opening of the Kitemarked product is different to that of the cover and frame, a load bearing slab should be fitted above the cover slab to bring the size down to 675x675: refer to CPSA Technical Bulletin issued autumn 2004 for Kitemarked cover slab opening sizes.
- All foul and surface water lateral sewers and drains to be 1500 unless noted otherwise.
- Adoptable sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer lengths.

REV	DESCRIPTION	SIG	CHK	DATE
A	First Issue.			
B	Construction Issue.	CB	-	06.06.22

MILLER HOMES

BOORLEY GARDENS
PHASE 1A

LONGITUDINAL SECTIONS

Eastwood & Partners
CONSULTING ENGINEERS

St Andrew's House
23 Kingfield Road
Sheffield
S11 9AS
Tel 0114 255 4554
Fax 0114 255 4330
mail@eastwoodandpartners.com
www.eastwoodandpartners.com



SCALE WHEN PLOTTED AT A1			DRAWING STATUS		
1:500			CONSTRUCTION		
DRAWN	CHECKED	DATE	DRAWING NUMBER	REV	
CB	TB	15.02.2022	46130/304	B	