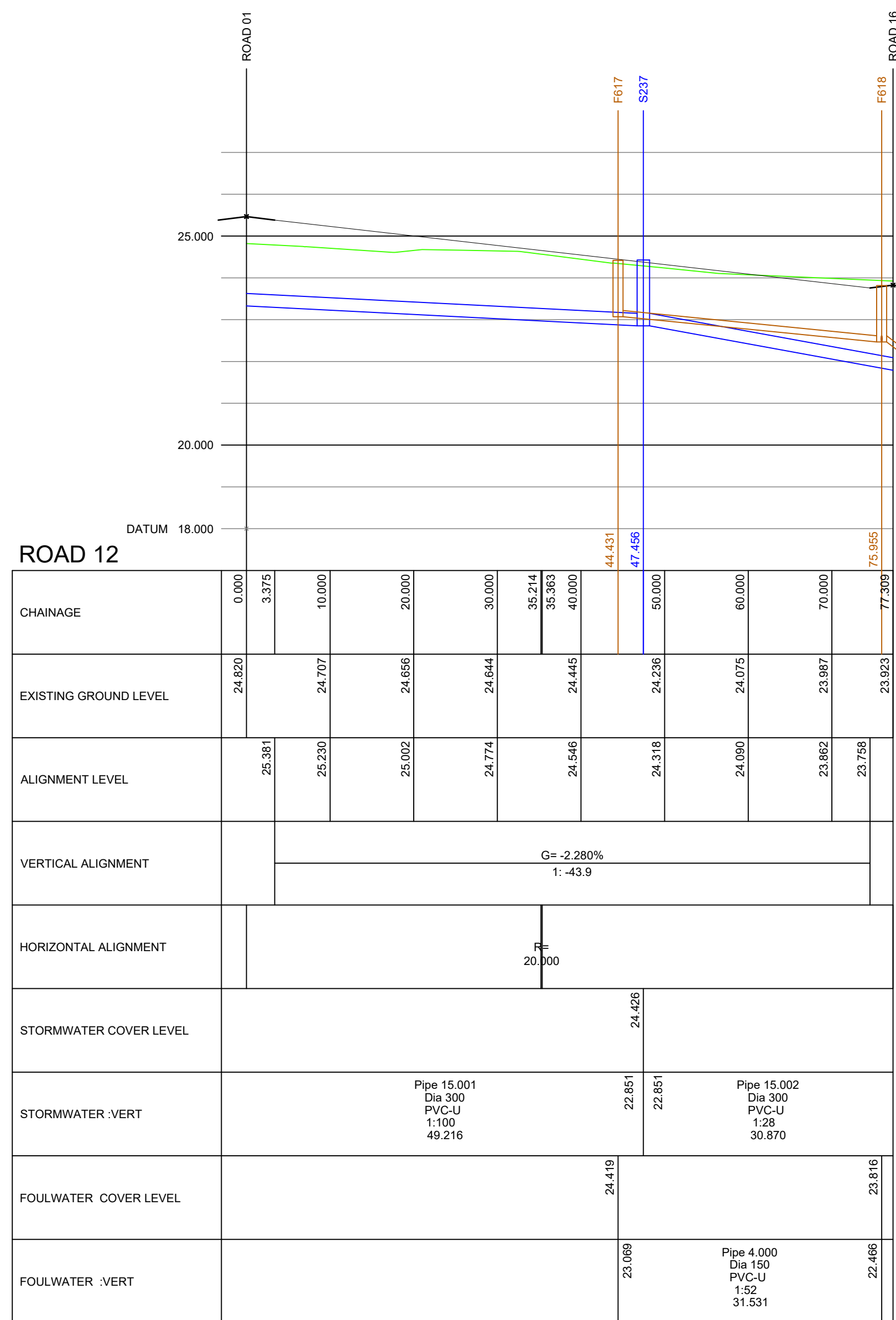
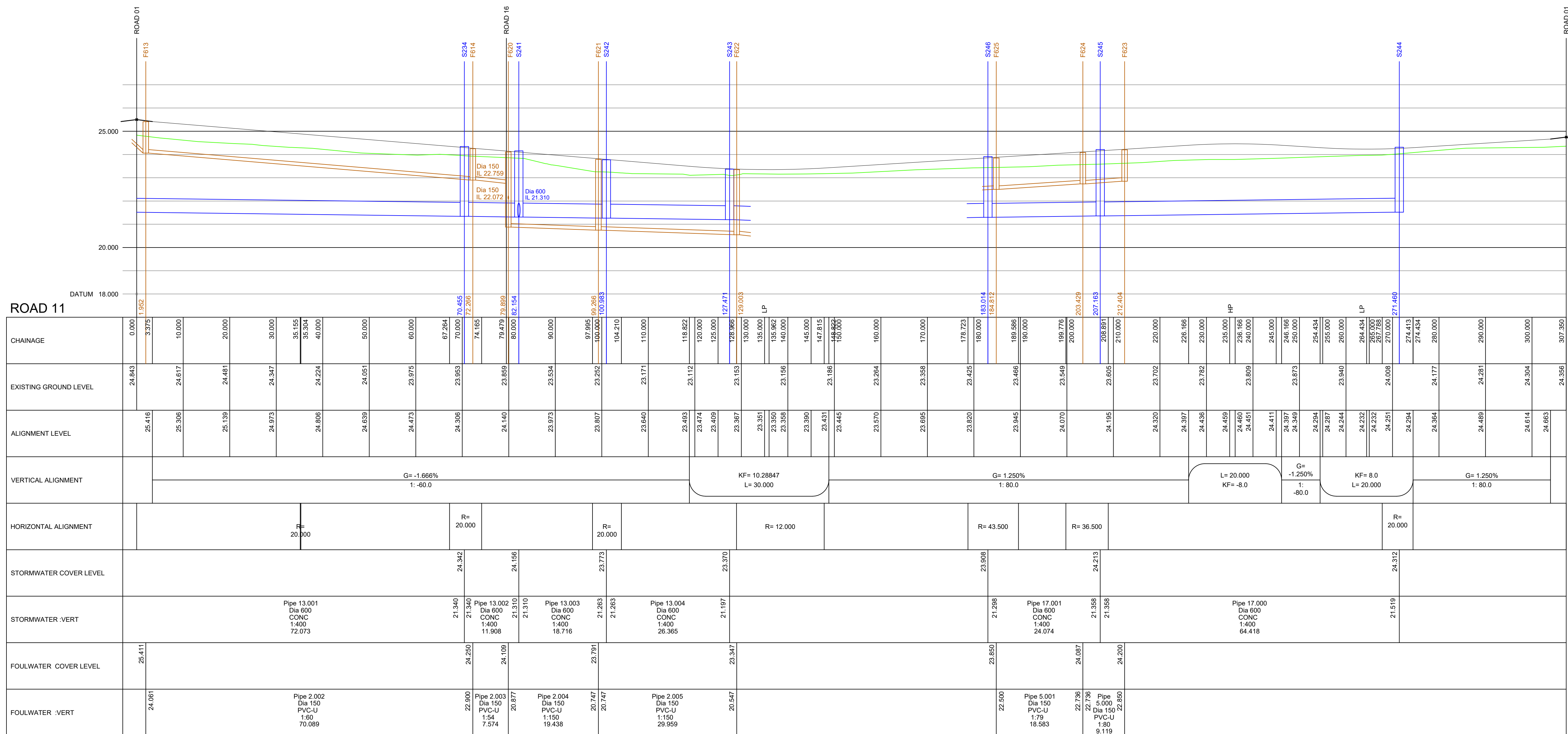
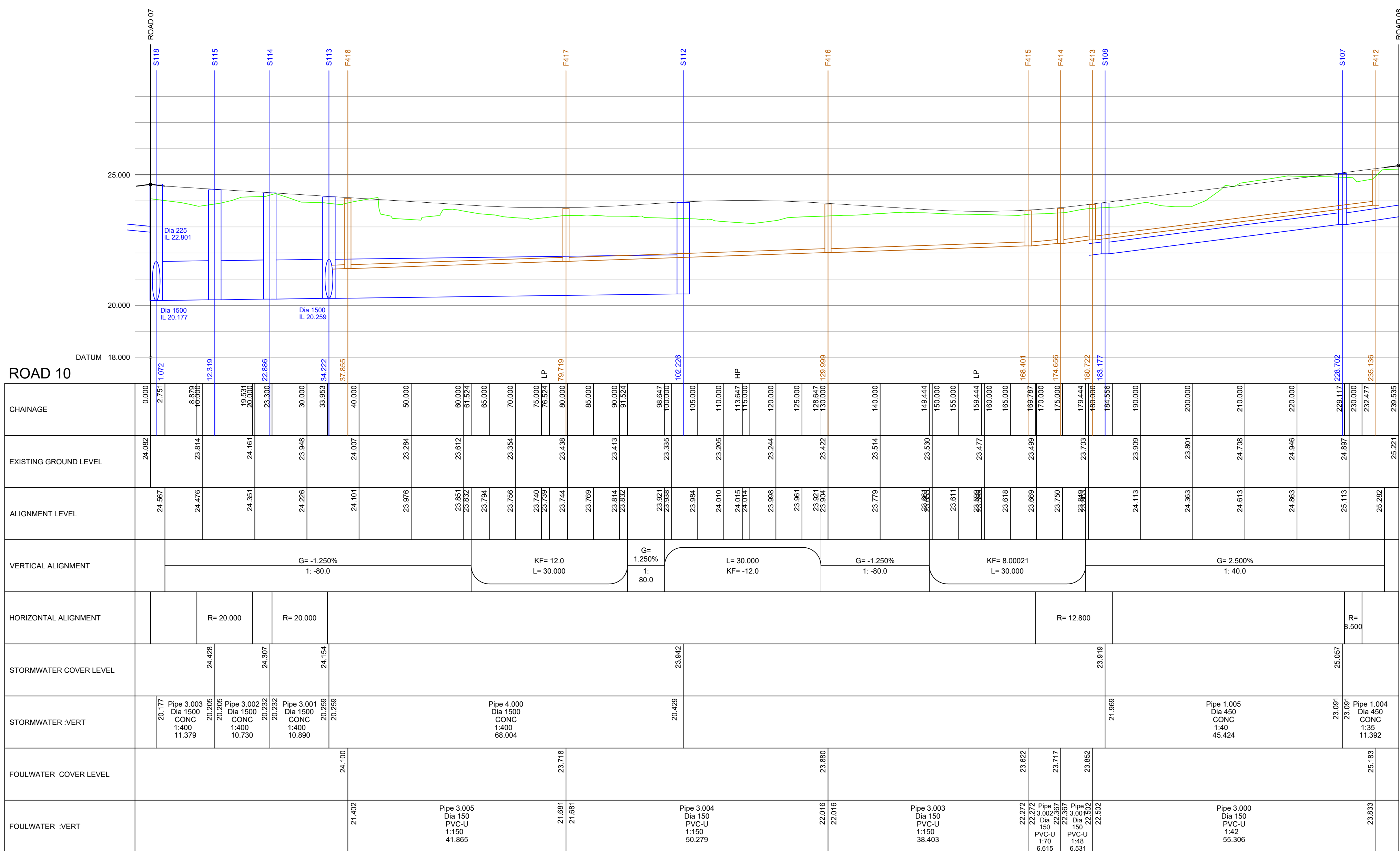
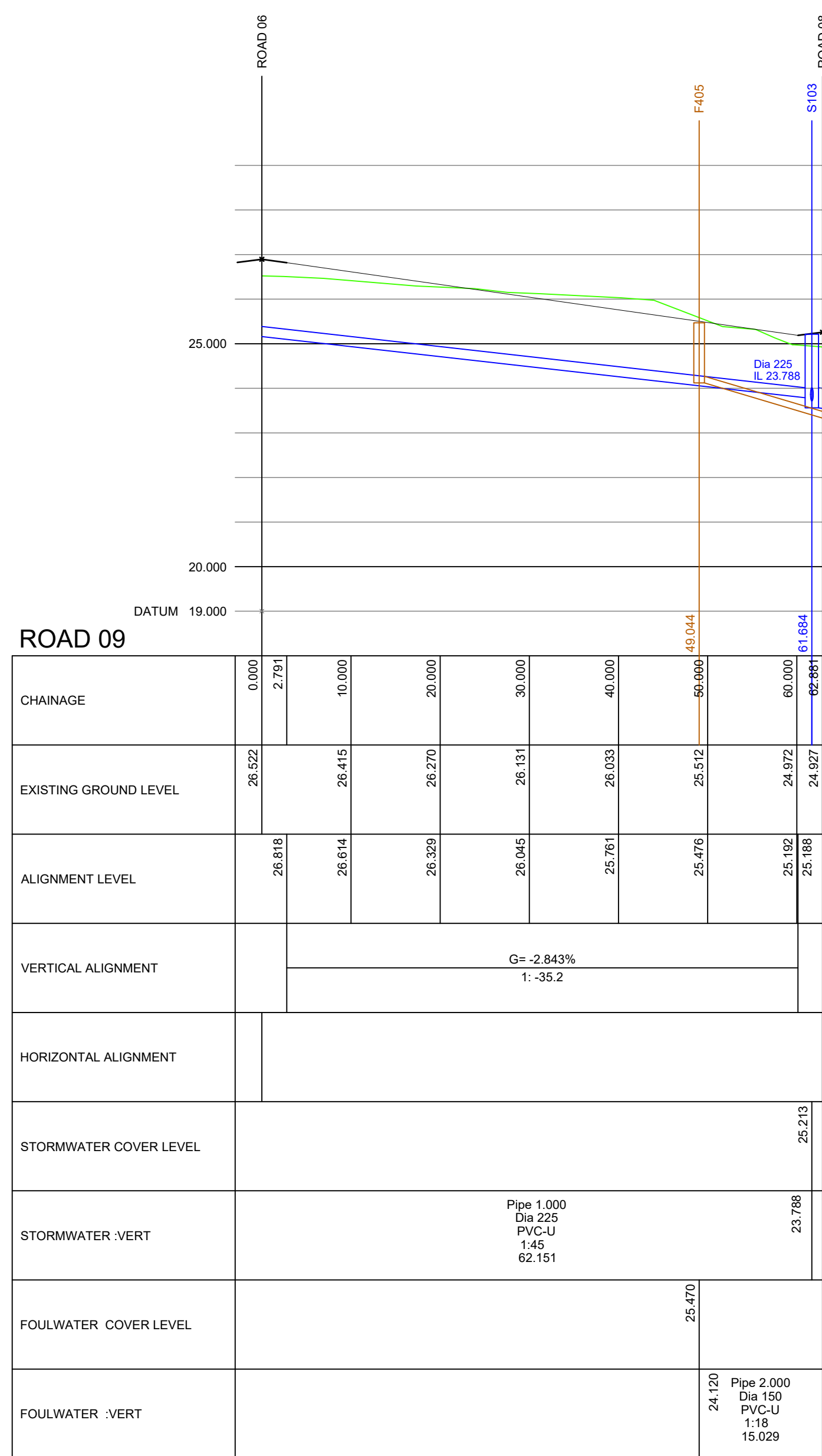
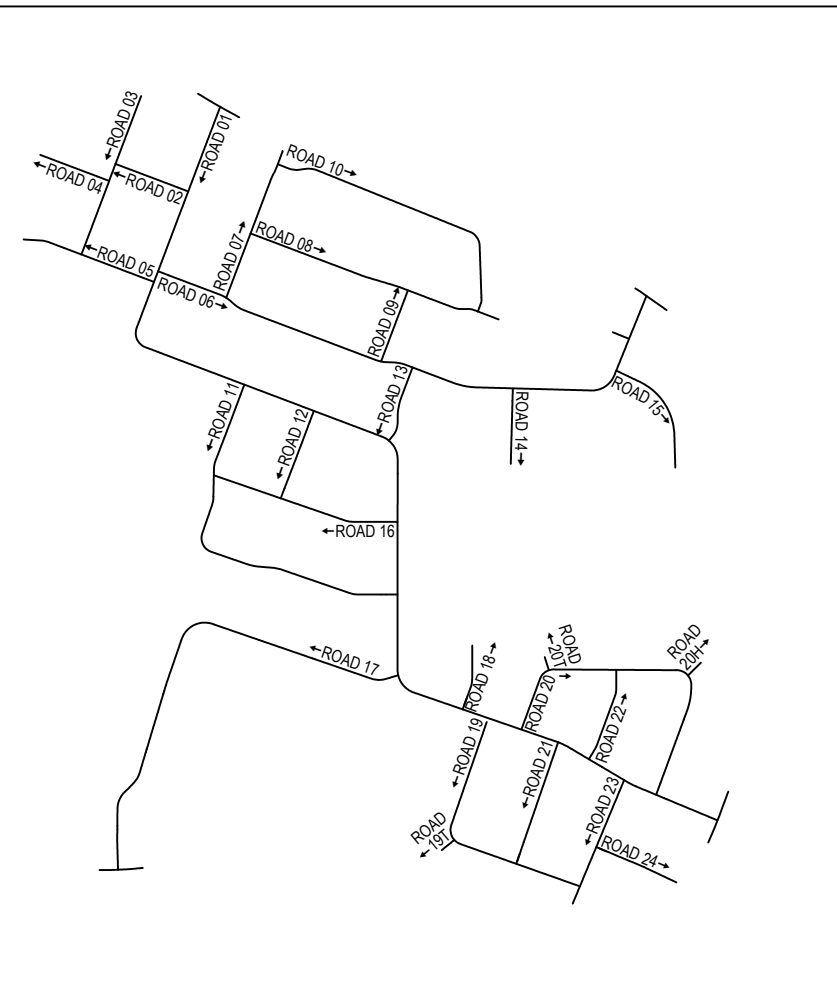




1. Setting out shall be undertaken using only the information given. Distances should not be scaled from this drawing.
2. All sewers shall be constructed in accordance with Design and Construction Guidance (DCG) Standards and United Utilities Details & Guidelines.
3. The minimum gravity pipe diameter under adoptable highways shall be 150mm
4. It is the responsibility of the Contractor to verify all information given with regards to existing services and drainage connections etc. prior to commencing the works. The rates shall include for hand dig around services where necessary. The Contractor shall adhere to the CDM Regulations at all times
5. The outfalls of all sewers shall be a minimum of 1.0m from kerb lines and the outside of manholes shall be a minimum of 0.5m from kerb lines.
6. Existing flows in watercourses, sewers and land drains shall be maintained at all times
7. Only trained personnel shall be permitted to enter confined spaces
8. All materials to be relevant BS 5. Kitemark and comply fully with the specifications. All concrete & concrete products must use Sulphate resistant cement to withstand Class 3 condition (unless the site investigation report proves that sulphate attack from soils and groundwater will not occur).
9. All opening notices etc. as required under Highways Acts etc. are to be the responsibility of the contractor. All works are to be inspected by L.A. H&BC or the Network Operator as applicable.
10. Where "Structured Wall" UPVC pipes (or similar approved) are used in adoptable drainage they shall be handled and laid in accordance with the manufacturers instructions and will be subject to post installation deformation testing prior to adoption. A Class 3 Bed and Surround must be used for "Structured Wall" pipes
11. Trench backfill in highways to be within 1m of highway shall, as directed by the Highway Authority be a suitable granular material all in accordance with Design and Construction Guidance (DCG) Standards.
12. Sub levels shall not be varied without reference to the Engineer for guidance.
13. Pipes have not been designed to accommodate construction traffic loading. The Contractor is responsible for providing adequate protection to the pipes during construction.
14. All works to be in accordance with Knowsley Metropolitan Borough/Council's Specification and Standard Details, and as agreed with Knowsley Metropolitan Borough Council's representative.
15. Manhole pipe connections to be suffo to soffit.

Class 'S' bed and surround to all pipes unless stated otherwise.
Class 'Z' bed and surround to pipes where cover < 1.2m as indicated on longsections.

All connections are soffit to soffit



KEY PLAN

- | Coopers Drawing List | |
|----------------------|--|
| 7778 / 01 | Proposed S104 Drainage Layout |
| 7778 / 02 | Proposed Highway Setback Out |
| 7778 / 03 | Proposed Highway Draining |
| 7778 / 04 | Proposed Highway and Drainage Longsections |
| 7778 / 05 | Proposed Construction Details |
| 7778 / 06 | Proposed Surface Finishes |
| 7778 / 07 | S38 Agreement Plan |
| 7778 / 08 | External Works Layout |
| 7778 / 09 | Private Drainage Layout |
| 7778 / 10 | Private Drainage Construction Details |
| 7778 / 11 | Manhole Schedules |
| 7778 / 12 | Flow Control Manhole Details |
| 7778 / 13 | Surface Water Catchment Areas |
| 7778 / 14 | Surface Water Attenuation Details |
| 7778 / 15 | Proposed Cut and Fill Earthworks |
| 7778 / 16 | Plot Setting Out |
| 7778 / 17 | Manhole Connection Plan |

TENDER



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Project

CHERRYFIELD DRIVE,
KIRKBY.

Highway and Drainage Longsections
Sheet 4 of 7

DRAWING NUMBER 7778 / 04-4	SCALE at A0 1:500 H, 1:100 V		REVISION -
	DATE	07.05.25	
	DRAWN	PJN	
	CHECKED	AJ	