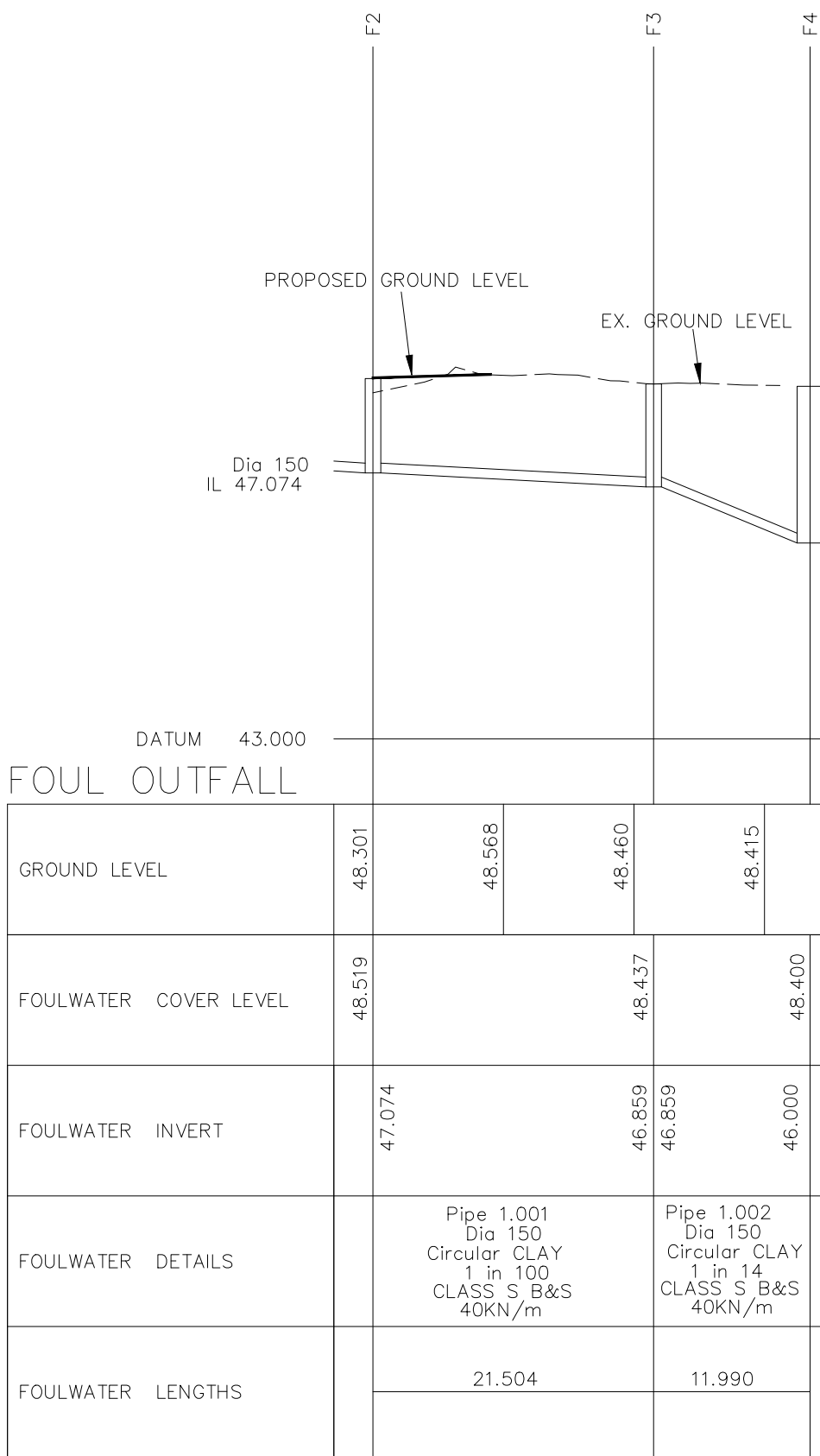
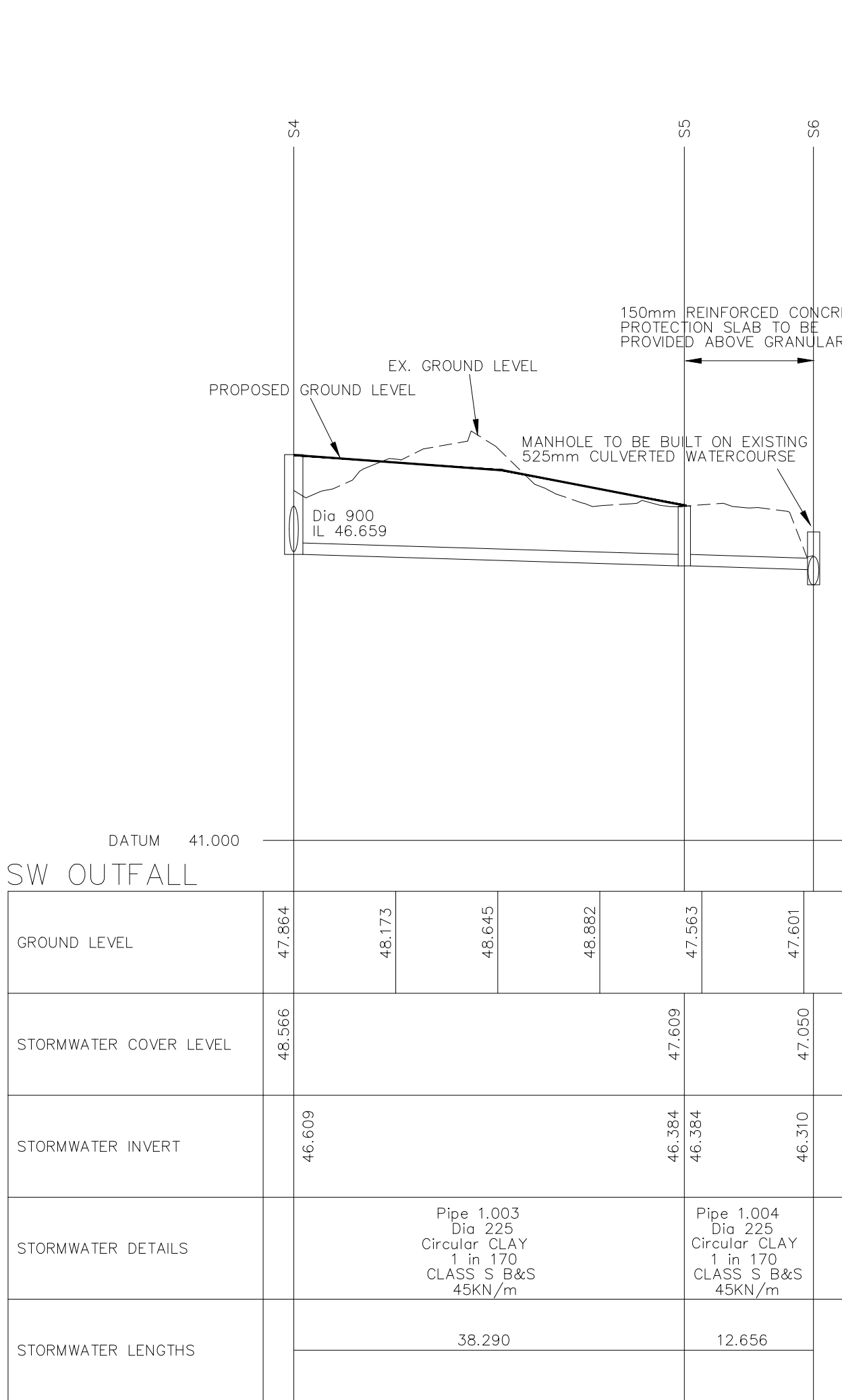
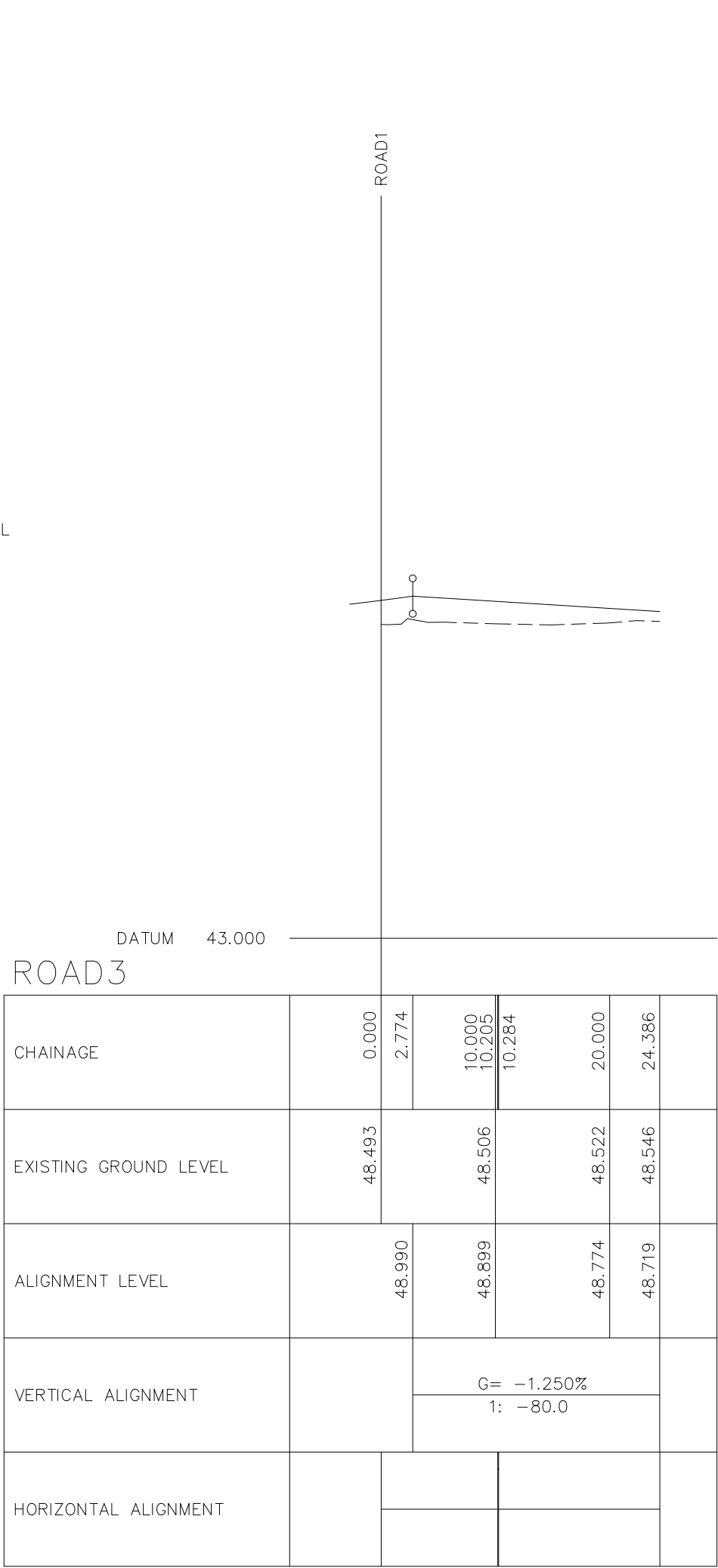
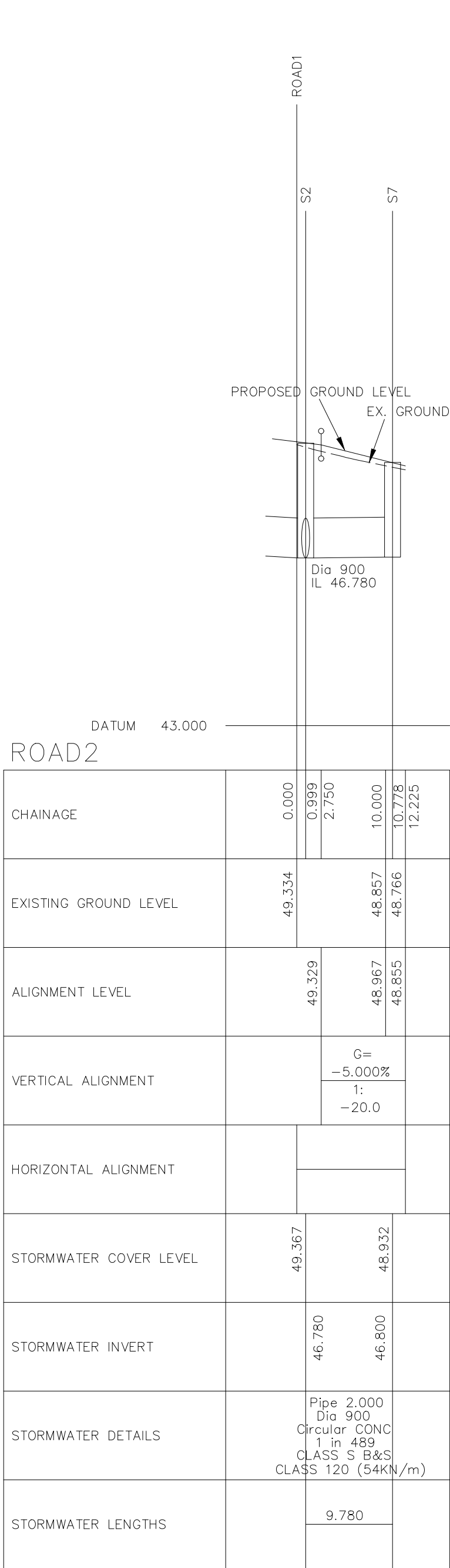
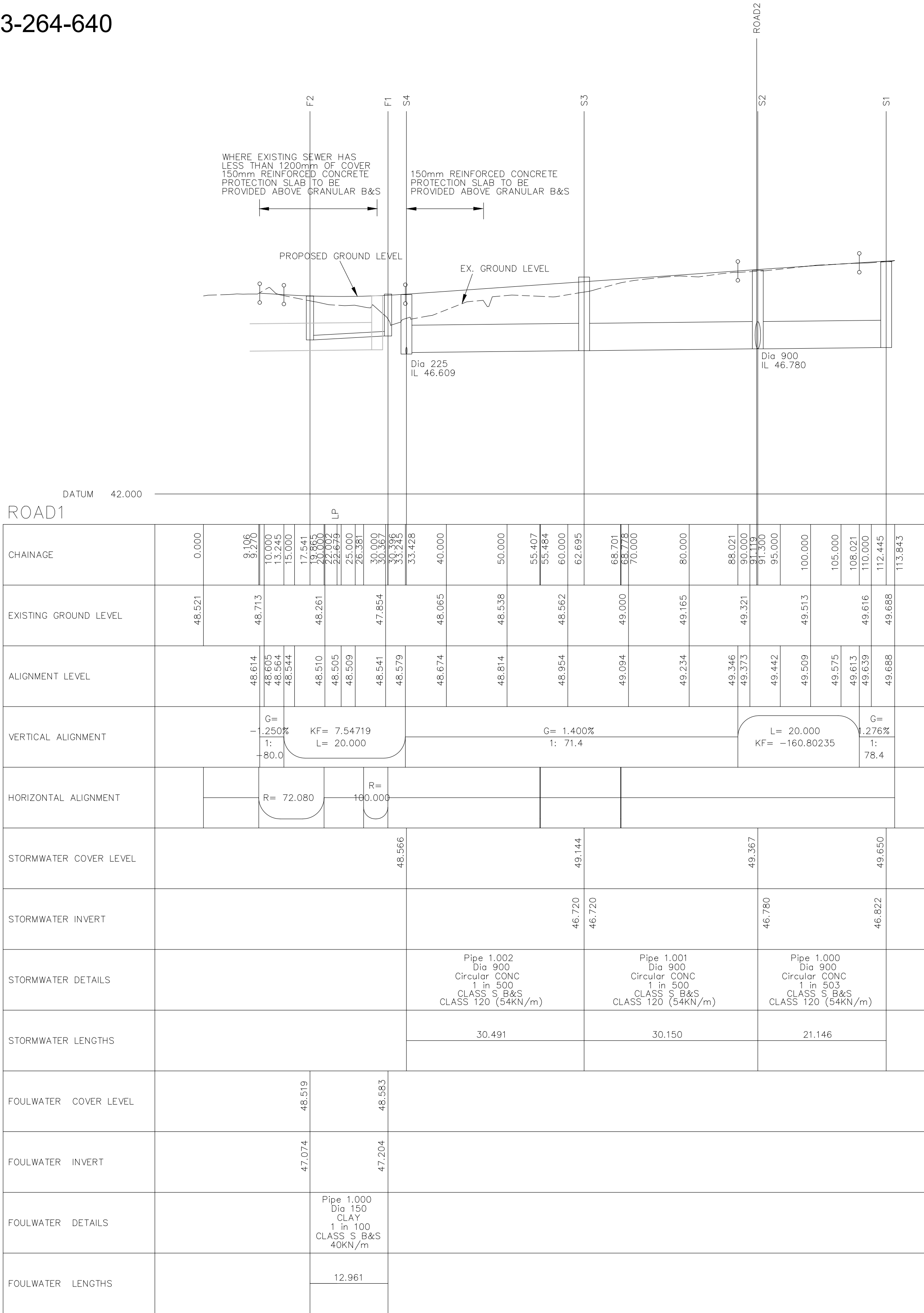




CODE For Adoption Under a Section 104 Agreement

- All adoptable sewer works and material to be in accordance with "Code for Adoption", The Relevant British/European and Yorkshire Water's Standard/Requirements/Addendum to the mechanical and electrical specification and Kitemarked.
- Manhole covers must have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.
- Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
- Yorkshire Water is not obliged to accept filter drain/land drainage runoff into the public sewer network or adoptable drainage system (directly or indirectly.) An alternative method of disposal of land drainage runoff will therefore be required. Please consult with the Local Authority/Land drainage Section.
- Cover slabs must carry the BSI kitemark or will be rejected by Yorkshire Water. Where the clear opening of the kitemarked product is different to that of the cover and frame, a loading bearing slab should be fitted above the cover slab to bring the size down to 600mm x 600mm for the Yorkshire Water specified cover size. Please refer to CPSA Technical bulletin issued Autumn 2004 for Kitemarked cover slab opening sizes.
- Sulphate resistant cement (C20-DC2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
- The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
- Sewers must have 5 metres clearance from trees and hedges.
- Sewers to be laid in Class "3" bedding (150mm granular bed & surround.) Where depth of cover to the top of the sewer is less than 1.2m in Highway and verges (or less than 900mm in non vehicular areas) then a concrete slab should be provided above the granular bed and surround.
- Bedding and backfill material to conform to the requirements of Water Industry Specification 4-08-02 (Table A2)
- The chamber size of manholes with more than one connection may need to be increased an increment to accommodate the connections and bends.
- Yorkshire Water policy is not to accept Type "C" brick manholes and 1050mm dia manhole rings. Instead it is preferred that you use a Type "B" manhole with 1200mm dia or 1500mm dia rings with the opening silted over the channel where depth of cover to pipe soffit is 1.0-1.5m
- Adoptable plastic sewer pipes to be BSI Kitemarked (certified to WIS 4-35-01 and BS/EN13476). Adoptable plastic sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer lengths. Plastic channel sections in manholes are not acceptable and Yorkshire Water would prefer clayware channel in manholes. We have found that plastic channels are difficult to set in concrete because they float, and a satisfactory finish cannot be obtained on the benching.
- The minimum crushing strength for clay pipes should be as follows:  
100mm dia. 40KN/m, 150mm dia. 40KN/m, 225mm dia. 40KN/m and 300mm dia. 72KN/m. The minimum crushing strength for concrete pipes should be - (Class 120 to EN 1916/BS5911-1 2002).
- Plastic pipes should conform to WIS 4-35-01 and BS EN13476
- Where a B125 cover and frame has been approved, this must not be coated in plastic and must have lifting eyes suitably sized to accommodate standard lifting keys. Screw down covers are not acceptable.

|   |                                                  |         |     |
|---|--------------------------------------------------|---------|-----|
| F | Road 3 added                                     | 24-6-22 | AST |
| E | Concrete protection note added to existing sewer | 2-12-21 | AST |
| C | Notes added re existing & proposed ground levels | 10-5-21 | CO  |
| B | Scale on title block amended                     | 27-4-21 | AST |
| A | SW redesigned                                    | 8-4-21  | AST |
|   | Site entrance amended                            | 6-4-21  | AST |

| Rev | Details | Date | Drwn | Chk. |
|-----|---------|------|------|------|
|-----|---------|------|------|------|

Gates Homes

Cross Lane  
Royston, Barnsley

Longitudinal Sections

Dwg No. : STE/20/16/08 F

Date : 12-11-20

Scale : 1:500/1:100

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| RISK ASSESSMENT:<br>SIGNIFICANT RISKS THAT CANNOT BE DESIGNED OUT                                                                                                 |                        | SUGGESTED ACTION                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| RISK                                                                                                                                                              | LEVEL OF RISK<br>(H/M) |                                                                                                                                                       |
| DEEP EXCAVATIONS ASSOCIATED WITH DEEP DRAINAGE WORKS                                                                                                              | HIGH                   | ENSURE ALL EXCAVATIONS HAVE ADEQUATE TRENCH SUPPORTS AND ARE FENCED OFF TO PROTECT FROM FALLS.                                                        |
| HANDLING LARGE DIAMETER MANHOLE AND SOAKAWAY RINGS                                                                                                                | HIGH                   | USE CORRECT LIFTING EQUIPMENT AND ENSURE OPERATIVES WEAR THE CORRECT PERSONAL PROTECTIVE EQUIPMENT.                                                   |
| CONTACT WITH SEWAGE/WORKING IN CONFINED SPACES                                                                                                                    | MEDIUM                 | USE GAS DETECTORS/BREATHING EQUIPMENT AND ENSURE OPERATIVES WEAR THE CORRECT PERSONAL PROTECTIVE EQUIPMENT.                                           |
| NOISE FROM MACHINERY                                                                                                                                              | MEDIUM                 | OPERATIVES TO WEAR THE CORRECT EAR PROTECTION.                                                                                                        |
| EXCAVATIONS NEAR TO UTILITIES                                                                                                                                     | HIGH                   | UTILITY MAPS TO BE INSPECTED AND APPARATUS LOCATED USING APPROPRIATE EQUIPMENT PRIOR TO EXCAVATION.                                                   |
| EXCAVATIONS IN PUBLIC HIGHWAY                                                                                                                                     | HIGH                   | ENSURE ALL EXCAVATIONS HAVE ADEQUATE TRENCH SUPPORTS AND ARE FENCED OFF TO PROTECT FROM FALLS.<br>ENSURE THE CORRECT SIGNAGE/TRAFFIC CONTROL IS USED. |
| IT IS ASSUMED THAT WORKS ASSOCIATED WITH THIS DESIGN WILL BE UNDERTAKEN BY A PERSON(S) WHO ARE COMPETENT AND HAVE THE REQUIRED LEVEL OF EXPERIENCE AND EXPERTISE. |                        |                                                                                                                                                       |