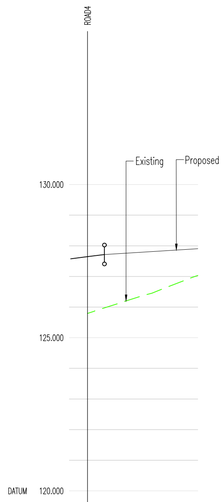
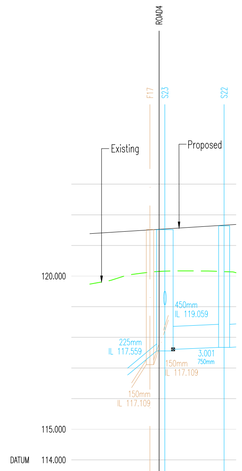


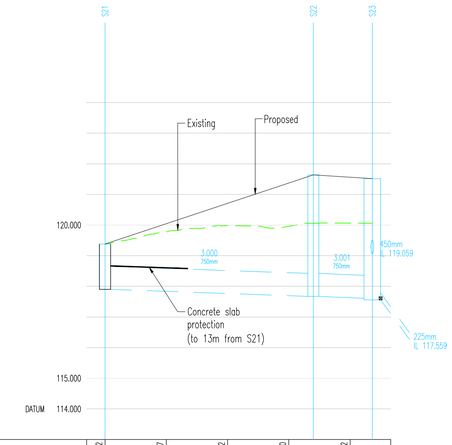
ROAD5

CHAINAGE	0.000	2.750	8.750	8.850 10.000	18.011	
EXISTING GROUND LEVEL	125.792		126.427		127.035	
ALIGNMENT LEVEL		127.714	127.864		127.904	
VERTICAL ALIGNMENT		G= 1.250% 1: 80.0				
HORIZONTAL ALIGNMENT						
LEFT HAND CHANNEL			127.722	127.736 127.798	127.836	
RIGHT HAND CHANNEL			127.857	127.860 127.936	127.973	



ROAD6

CHAINAGE	0.000	8.231	11.313	12.000 13.309	20.000	21.871	
EXISTING GROUND LEVEL	119.738	120.131			120.161	120.112	
ALIGNMENT LEVEL	121.386	121.511			121.638	121.685	
VERTICAL ALIGNMENT		G= 1.250% 1: 80.0					
HORIZONTAL ALIGNMENT			R= 27.750				
LEFT HAND CHANNEL	121.455	121.517	121.580	121.642	121.705	121.753	
RIGHT HAND CHANNEL	121.317	121.380	121.442	121.505	121.567	121.616	
STORMWATER COVER LEVEL			121.515		121.638		
STORMWATER INVERT				117.609	117.673	117.673	
STORMWATER DETAILS				Pipe 3.001 Dia 750 Circular CONC 1 in 150 Class S Bed and Surround	Dia 750 Circular CONC 1 in 150 Class S Bed and Surround		
STORMWATER LENGTHS				9.629	34.001		
FOULWATER COVER LEVEL			121.521				
FOULWATER INVERT							
FOULWATER DETAILS							
FOULWATER LENGTHS							



GROUND LEVEL	119.382	119.777	119.982	119.960	121.562	
STORMWATER COVER LEVEL	119.382			121.638	121.515	
STORMWATER INVERT	117.900			117.673	117.673 117.609	
STORMWATER DETAILS		Pipe 3.000 Dia 750 Circular CONC 1 in 150 Class S Bed and Surround		Pipe 3.001 Dia 750 Circular CONC 1 in 150 Class S Bed and Surround		
STORMWATER LENGTHS		34.001		9.629		
FOULWATER COVER LEVEL						
FOULWATER INVERT						
FOULWATER DETAILS						
FOULWATER LENGTHS						

SUBJECT TO THE APPROVAL OF ALL RELEVANT AUTHORITIES

N O T E S

ATTENTION IS DRAWN TO THE REQUIREMENTS OF THE CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS 2015 AND THE DUTIES AND RESPONSIBILITIES CONTAINED THEREIN

Adoption General Notes

1. All adoptable sewer works and materials to be in accordance with Sewerage Sector Guidance (SSG), the relevant British/European and the adopting Water Authority standards/Requirements/Addendum to the Mechanical and Electrical Specification and Kitemarked.
2. Manhole covers shall/must have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.
3. Filled ground must be filled and consolidated under the supervision, and to the satisfaction, of Yorkshire Water before any sewer works are carried out.
4. Cover slabs must carry the BSI Kitemark or may be rejected by Yorkshire Water inspector. 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 600x600mm for Yorkshire Water specified cover size. Please refer to the Concrete Pipe Systems Association (CPSA), 'Technical Bulletin' issued autumn 2004 for kitemarked cover slab opening sizes.
5. The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
6. Sewers must have 5 metres clearance from trees and hedges, (please also refer to Figure 2.3 on page 33 in "Sewers for Adoption" 6th Edition for restrictions on tree planting adjacent to Sewers).
7. Sewers to be laid in Class "S" bedding (150mm granular bed and surround). Where depth of cover to top of the sewer is less than 1.2m in highways and verges (or less than 900mm in none vehicular access areas) then a concrete slab should be provided above the granular bed and surround.
8. Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2)
9. Adoptable plastic sewer pipes to be BSI Kitemarked (Certified to WIS 4-35-01 and BS/EN13476). Adoptable sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer.
10. Plastic channel sections in manholes are not acceptable and clayware is preferable. Plastic channels are difficult to set in concrete and a satisfactory finish cannot be obtained on the benching.
11. The chamber size of manholes with more than one connection in them may need to be increased on increment to accommodate the connections and bends.
12. Yorkshire Water's policy is not generally to accept Type "C" brick manhole 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 sited over the channel where depth of cover to pipe soffit is 1-1.5m.
13. If plastic pipes are to be used then the following should apply:-
    a. All adoptable sewers to be BSI Kitemark (certified to WIS 4-35-01).
    b. Bedding and backfill material to conform to the requirements of Water industry Specification 4-08-02 (Table A2)
14. Where plastic pipes are proposed for adoptable sewers, structural calculations for the plastic pipes and a site investigation report to prove that the ground condition is suitable for the plastic pipes are to be produced.
15. Where plastic pipes are installed into the ground prior to getting full technical approval, the developer must provide a CCTV survey of the prospectively adoptable sewers and a deformation test (Light-Line test) of the plastic pipes.
16. Demarcation chambers to be a min. 450mmø chamber for 100mmø foul & 150mmø surface water pipes up to 1.2m deep. For depths greater than 1.2m, restricted access opening to 350mm is required for safety reasons.
17. Maximum depth of demarcation chamber to be 3m, where depth exceeds 3m, manhole to be constructed as type B manhole.
18. Where a B125 cover and frame has been approved, this must not be coated in plastic and must have lifting eyes suitably sizes to accommodate standard lifting keys. Screw down covers are not acceptable.
19. Yorkshire Water is not obliged to accept filter drain/land drainage runoff into the public sewer network or adoptable drainage system (directly or in-directly). An alternative method of disposal of the land drainage runoff will therefore be required and you will have to liaise with the Land Drainage Authority/Land Drainage Section with regard to the disposal of the filter drain/land drainage runoff is required.
20. Sulphate resisting cement (C20-DC2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
21. Strength of vitrified clay pipes (if used) to be 40kN/m for 100Ø, 40kN/m for 150Ø, 45kN/m for 225Ø and 72kN/m for 300Ø. All concrete pipes to be Class 120 concrete to EN 1916/BS 5911-1:2002.
22. All levels of existing drainage to be confirmed prior to work commencing on site.
23. The contractor must allow for any fee's required for road and sewer opening permits, sewer connections and make the appropriate applications.
24. There should be enough clearance to accommodate the bedding for both pipes, approx 300mm: If crossover is near rocker then the clearance needed may be increased.

Rev	By	Date	Revision	Chk	Apvd
/	IC	14.11.25	Preliminary	MI	MI

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ARP Associates is a trading division of ARP Geotechnical Ltd, a company registered in England and Wales with company number 3771811, whose registered office is at 5/6 Northwest Business Park, Servia Hill, Leeds LS6 2QH

TITLE
LONGITUDINAL SECTIONS
SHEET 4 OF 5

PROJECT
COCKLEY HILL,
KIRKHEATON

CLIENT
GLEESON HOMES

DRAWING STATUS
FOR APPROVAL

Scale	Date	Drawn	Chk.
1:500H 1:100V @ A1	NOV 25	IC	MI

Drg. No. 2298/03/06.04 Rev /