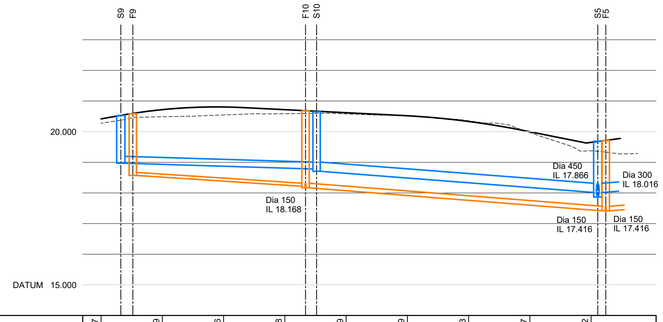
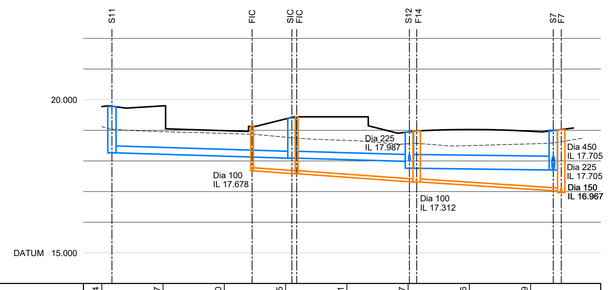


GROUND LEVEL	20.417	20.719	20.808	20.718	20.619	20.519	20.333	19.997	19.652	
STORMWATER COVER LEVEL	20.525			20.646					19.764	
STORMWATER INVERT	18.970			18.782	18.707				18.016	
STORMWATER DETAILS		Pipe 2.000 Dia 225 Circular CLAY 1 in 170			Pipe 2.001 Dia 300 Circular CLAY 1 in 66					
STORMWATER LENGTHS		31.964			45.903					
FOULWATER COVER LEVEL	20.585		20.693						19.785	
FOULWATER INVERT	18.570		18.218	18.168					17.416	
FOULWATER DETAILS		Pipe 2.000 Dia 100 Circular CLAY 1 in 80			Pipe 2.001 Dia 150 Circular CLAY 1 in 65					
FOULWATER LENGTHS		28.197			49.014					



GROUND LEVEL	19.774	18.957	18.900	18.775	18.671	18.947	19.026	18.969		
STORMWATER COVER LEVEL	19.775			19.400		18.942			19.003	
STORMWATER INVERT	18.264			18.091	18.091		17.987	17.762	17.705	
STORMWATER DETAILS		Pipe 3.000 Dia 225 Circular CLAY 1 in 170			Pipe 3.001 Dia 225 Circular CLAY 1 in 170		Pipe 3.002 Dia 450 Circular CONC 1 in 413			
STORMWATER LENGTHS		29.382			17.663		23.548			
FOULWATER COVER LEVEL			19.150		19.450		18.974		19.020	
FOULWATER INVERT			17.678	17.581 17.581		17.312	17.312		17.017	
FOULWATER DETAILS			Pipe 4.001 Dia 100 Circular CLAY 1 in 80		Pipe 4.002 Dia 100 Circular CLAY 1 in 74		Pipe 4.003 Dia 100 Circular CLAY 1 in 80			
FOULWATER LENGTHS			7.750		19.934		23.597			

DRAINAGE NOTES

1. THIS DRAWING IS COPYRIGHT.
2. THE CONTRACTOR AND HIS SUBCONTRACTOR ARE TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO MAKING SHOP DRAWINGS OR COMMENCING MANUFACTURE.
3. DO NOT SCALE THIS DRAWING. THE CONTRACTOR IS TO BRING TO THE NOTICE OF THE ENGINEER ANY DISCREPANCIES CONTAINED IN THIS DRAWING PRIOR TO WORK COMMENCEMENT.
4. ALL 100MM PIPES OFFERED FOR ADOPTION OR BELOW HIGHWAYS TO BE EXTRA STRENGTH VITRIFIED CLAY PIPES
5. ALL 150mm AND 225mm DIAMETER PIPES TO BE EXTRA STRENGTH VITRIFIED CLAY PIPES OR PLASTIC PIPES ALL PIPES OF 300mm DIAMETER OR GREATER TO BE CLASS M CONCRETE OR PLASTIC PIPES COMPLYING WITH SEWER UNDERTAKER TECHNICAL REQUIREMENTS AND DESIGN AND CONSTRUCTION GUIDE FOR FOUL AND SURFACE WATER SEWERS OFFERED FOR ADOPTION. ALL PLASTIC PIPES ARE REQUIRED TO WITHSTAND 2600 PSI
6. ALL PIPES OF 300mm DIAMETER OR GREATER TO BE CLASS M CONCRETE OR PLASTIC PIPES COMPLYING WITH SEWER UNDERTAKER TECHNICAL REQUIREMENTS AND DESIGN AND CONSTRUCTION GUIDE FOR FOUL AND SURFACE WATER SEWERS OFFERED FOR ADOPTION .
7. ALL PIPE MATERIALS TO BE CONSISTENT BETWEEN MANHOLES.
8. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH DESIGN AND CONSTRUCTION GUIDELINES, THE SPECIFICATION FOR HIGHWAY WORKS 1998 AND ALL SUBSEQUENT, AMENDMENTS AND LOCAL AUTHORITIES DESIGN GUIDE. WHERE THERE IS CONFLICT BETWEEN THESE DOCUMENTS THE MATTER SHALL BE REFERRED TO THE ENGINEER.
9. FOR CONSTRUCTION DETAILS OF MANHOLES AND SEWERS REFER TO DESIGN AND CONSTRUCTION GUIDELINES AND UNDERTAKERS STANDARD DETAILS WHICH CAN BE OBTAINED FROM THE LOCAL OFFICE.
10. INVERT LEVELS OF EXISTING SEWERS TO BE CONFIRMED ON SITE BEFORE ANY SEWER WORK UNDERTAKEN. ANY DISCREPANCIES FOUND SHOULD BE NOTIFIED TO ENGINEERS.
11. WHERE SEWERS HAVE LESS THAN 1.2m OF COVER UNDER ROADS AND 0.9m COVER ELSEWHERE PIPES ARE TO HAVE A 150mm CONCRETE BED AND SURROUND.
12. PLASTIC CHAMBERS AND RINGS SHALL COMPLY WITH BS EN 13598–1 AND BS EN 13598–2 OR HAVE EQUIVALENT INDEPENDENT APPROVAL, TO TABLE 11 OF APPROVED DOCUMENT H1 OF THE BUILDING REGULATIONS 2010.
13. ORIENTATION OF ALL ACCESS AND INSPECTION CHAMBERS TO BE IN ACCORDANCE WITH NHBC TECHNICAL GUIDANCE 5.3/01
14. WHERE HOUSE DRAINAGE IS TAKEN THROUGH BLOCK CARE IS TO BE TAKEN THAT FOUNDATION LEVELS AND DRAINAGE RUNS DO NOT CLASH.
15. ALL ADOPTABLE MANHOLES TO HAVE A MINIMUM CLEAR OPENING OF 675mmx675mm AND GRADE D400 UNO.
16. ALL BELOW GROUND DRAINAGE TO BE 100mmø UNLESSOTHERWISE INDICATED WITH A MIN. GRADIENT AS FOLLOWS:–

    S.W : 100mm Dia. 1:100
    S.W : 150mm Dia. 1:150
    F.W : 100mm Dia. 1:80
    F.W : 150mm Dia. 1:150

17. ALL ADOPTABLE DRAINAGE MATERIALS SHOULD COMPLY WITH THE REQUIREMENTS OF PART E CIVIL ENGINEERING SPECIFICATION INCLUDED WITH DESIGN AND CONSTRUCTION GUIDELINES.

Construction Design and Management (CDM) Key Residual Risks

Contractors entering the site should gain permission from the relevant land owners and/or principle contractor working on site at the time of entry. Contractors shall be responsible for carrying out their own risk assessments and for liasing with the relevant services companies and authorities. Listed below are Site Specific key risks associated with the project.

1. Overhead and underground services
2. Street lighting cables
3. Working adjacent to water courses and flood plain
4. Soft ground conditions
5. Working adjacent to live highways
6. Uncharted services

NOTES:

1. Do not scale from this drawing.
2. All dimensions are in millimetres unless otherwise stated.
3. Brookbanks Consulting Ltd has prepared this drawing for the sole use of the client. The drawing may not be relied upon by any other party without the express agreement of the client and Brookbanks Consulting Ltd. Where any data supplied by the client or from other sources has been used, it has been assumed that the information is correct. No responsibility can be accepted by Brookbanks Consulting Ltd for inaccuracies in the data supplied by any other party. The drawing has been produced based on the assumption that all relevant information has been supplied by those bodies from whom it was requested.
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P02	24.07.2026	Drawing number updated	PJ
P01	22.07.2026	Initial issue	PJ

Stonebond.

Project Title:
Bartons Road, Havant

Project Number:
GUI005

Scale:
H: 1:500 V: 1:100

Drawing Title:
Drainage Longitudinal Sections Sheet 2 of 2

Date:
July 2026

Revision Notes:
Initial issue

Rev:
P02

Drawing Number:
GUI005-BBK-XX-XX-DR-C-91-261

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