



NEW FOUL WATER CONNECTION INTO EXISTING COMBINED SEWER. INVERT LEVEL AND LOCATION OF EXISTING SEWER TO BE CONFIRMED PRIOR FINAL DESIGN STAGE. PROPOSED ROUTE THROUGH TREES TO BE AGREED WITH YW.

NEW SURFACE WATER SEWER TO DISCHARGE INTO EXISTING SWS CULVERT AT FLOW RATE OF 6.8lit/sec (3lit/sec) - TO BE AGREED WITH LLFA.

UNDERGROUND ATTENUATION TO BE PROVIDED TO CATER FOR ADDITIONAL FLOOD VOLUMES UP TO 1 in 100yr STORM EVENTS +30% CC. ALLOWABLE MAX DISCHARGE RATE TO BE APPROVED BY KIRKLEES PRIOR TO FINAL DESIGN STAGE.

EXISTING CULVERT TO WATERCOURSE TO BE REPLACED AND UPSIZED TO ACCOMMODATE ADDITIONAL FLOWS FROM LAND TO THE WEST.

EXISTING WATERCOURSE BANK TO BE LOWERED AND CONCRETE OVERFILL CONSTRUCTED TO ALLOW ANY BLOCKED EXCESS FLOWS TO BE DIRECTED INTO NEW LAND DRAINAGE SYSTEM.

2000mm HIGH RETAINING WALL REQUIRED ALONG BOUNDARY.

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EXISTING WATERCOURSE CULVERT TO BE RENEWED ALONG WESTERN BOUNDARY. CULVERT TO BE REPLACED WITH A NEW 300mm DIAM SEWER FROM S10 AND RELIED TO SUIT PROPOSED INVERT LEVEL OF SWS NETWORK.

200000L STORAGE TANK (VOLUME 173.30m³) TOTAL FLOW 173.30m³

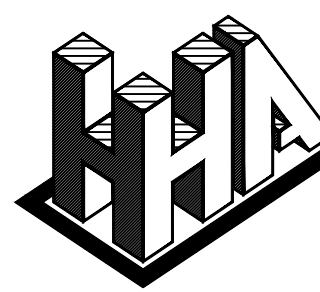
SHE-0100-6600-2500-6600 HYDRORAKE FITTED TO MANHOLE S9. HEAD: 2.5m FLOW RATE: 6.8lit/sec(tbc).

EXISTING WATERCOURSE CULVERT TO BE RENEWED ALONG WESTERN BOUNDARY. CULVERT TO BE REPLACED WITH A NEW 300mm DIAM SEWER FROM S10 AND RELIED TO SUIT PROPOSED INVERT LEVEL OF SWS NETWORK.

NO BOUNDARY TREATMENTS TO REAR OF PLOT 42 TO ALLOW ACCESS TO ADOPTED SWS & FWS LATERAL CONNECTIONS.

GULLIES REQUIRED ALONG NEW SITE FRONTAGE FOOTPATH. CONNECTIONS INTO EXISTING COMBINED SEWER TO BE AGREED WITH YW PRIOR TO FINAL DESIGN.

1. ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH 'CODES FOR ADOPTION' THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATER'S 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. YORKSHIRE WATER IS **NOT** OBLIGED TO ACCEPT FILTER DRAIN/AND DRAINAGE RUNOFF INTO THE PUBLIC SEWER NETWORK OR ADOPTABLE DRAINAGE SYSTEM (DIRECTLY OR INDIRECTLY). AN ALTERNATIVE METHOD OF DISPOSAL OF THE LAND DRAINAGE RUNOFF WILL THEREFORE BE REQUIRED AND YOU WILL HAVE TO LIAISE WITH THE LOCAL AUTHORITY LAND DRAINAGE SECTION WITH REGARD TO THE DISPOSAL OF THE FILTER DRAIN/AND DRAINAGE RUNOFF.
5. COVER SLABS MUST CARRY THE BSI KITEMARK OR WILL 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 THE YORKSHIRE WATER SPECIFIED COVER SIZE. PLEASE REFER TO CONCRETE PIPE SYSTEMS ASSOCIATION (CPSA), 'TECHNICAL BULLETIN' ISSUED AUTUMN 2004 FOR KITEMARKED COVER SLAB OPENING SIZES.
6. SULPHATE RESISTANT CEMENT (C20-DC2) AND PRECAST CONCRETE PRODUCTS MUST BE USED OR A LABORATORY REPORT PROVIDED PROVING THAT SUCH PRECAUTIONS ARE NOT NECESSARY.
7. THE ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 1m AND MANHOLES 0.5m FROM KERB FACES.
8. SEWERS MUST HAVE 5m CLEARANCE FROM TREES AND HEDGES.
9. 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 175mm CONCRETE SLAB OVER SEWER SHALL BE PROVIDED.
10. ALL PIPEWORK 300mm DIAM. OR LESS TO BE VITRIFIED CLAY CONFORMING WITH BS 65. MINIMUM CRUSHING STRENGTHS TO BE AS FOLLOWS: 100mm DIA. 40kN/m, 150mm DIA 40kN/m, 225mm DIA 45kN/m, 300mm DIA 72kN/m.
11. ALL PIPEWORK 375mm DIAM. OR GREATER TO BE CONCRETE CLASS 120 TO EN 1916/ BS 5911-1: 2002.
12. THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENDS.
13. YORKSHIRE WATER POLICY IS NOT TO ACCEPT TYPE 'C' BRICK MANHOLES AND 1050mm DIAM. MANHOLE RINGS. INSTEAD IT IS PREFERRED THAT YOU USE A TYPE 'B' MANHOLE WITH 1200mm DIAM. OR 1500mm DIAM. RINGS, WITH THE OPENING SIGHTED OVER THE CHANNEL WHERE DEPTH OF COVER TO PIPE SOFFIT IS 1-1.5m.
14. ALL HIGHWAY WORKS AND MATERIAL TO CONFORM WITH KIRKLEES COUNCIL DESIGN GUIDANCE AND SPECIFICATION.
15. GULLY COVER AND FRAMES SHALL BE D400 DUCTILE IRON AND COMPLY WITH EUROPEAN STANDARD BS EN 124. THOSE SIGHTED IN ACCESSWAYS AND MEWS COURTS MUST BE SUITABLE FOR USE IN PEDESTRIAN AREAS.
16. BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4-08-2 (TABLE A2).
17. PLASTIC CHANNEL SECTIONS IN MANHOLES ARE NOT ACCEPTABLE AND YORKSHIRE WATER WOULD PREFER CLAYWARE CHANNELS IN MANHOLES. YORKSHIRE WATER HAVE FOUND THAT PLASTIC CHANNELS ARE DIFFICULT TO SET IN CONCRETE AS THEY FLOAT AND A SATISFACTORY FINISH CANNOT BE OBTAINED ON BENCHING.
18. 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.
19. THERE SHOULD BE ENOUGH CLEARANCE TO ACCOMMODATE THE BEDDING FOR BOTH PIPES, APPROX 300mm: IF CROSSOVER IS NEAR THE ROCKER THEN THE CLEARANCE NEEDED MAY BE INCREASED.



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Rev L. Additional gullies, 1st laterals & S12 added. Carport & MHF1 moved	21.08.23 HH
Rev K. Land drainage added to garden of plot 8.	26.01.23 HH
Rev J. Road & Sewer design updated to suit latest planning layout Rev N.	23.01.23 HH
Rev H Site entrance radii amended. Drainage added to plots 34-43.	05.12.22 HH
Additional channel levels added to site entrance.	
Rev G Footpath link and rear gardens to plots 24 & 27 amended.	23.11.22 HH
Site entrance & Road 2/2A updated to suit Kirklees comments. FFL's to plots	
17-20 amended to suit. Land drainage information amended to suit LLFA comments.	
Rev F SWS outfall amended.	19.10.22 HH
Rev E Land drainage added.	13.10.22 HH
Rev D Gullies added to new site frontage footpath. Tactile paving added.	12.10.22 HH
Rev C Updated to suit latest planning layout. SWS outfall amended to suit	11.10.22 HH
clients instructions. White lining added.	
Rev B Road 1A amended to suit Kirklees comments	21.07.22 HH
Rev A Plot 6-19 & 24 amended to suit clients instructions. Site entrance radii	21.07.22 HH
increased. Highway dimensions added. Visibility plays added to plots 36-41.	

Client	SB HOMES
Project	LINGARD ROAD, SLAITHWAITE
Detail	MAIN ROAD AND SEWER PLAN
Dwn	HH
Chkd	
Date	JUN-22
Scale	1:500@A1
Dwg No.	E19/7567/004L