

H-3-264-643

Proposed surface water to connect via new manhole connection into the existing 3000 combined sewer subject to S106 connection approval.

Proposed foul water to connect via new manhole connection into the existing 3000 combined sewer subject to S106 connection approval.

ExMH2
CL:111.54m
Depth 1.70m
IL:109.84m
(3000)

ExMH3
CL:104.48m
Depth 1.49m
IL:103.01m (3000)

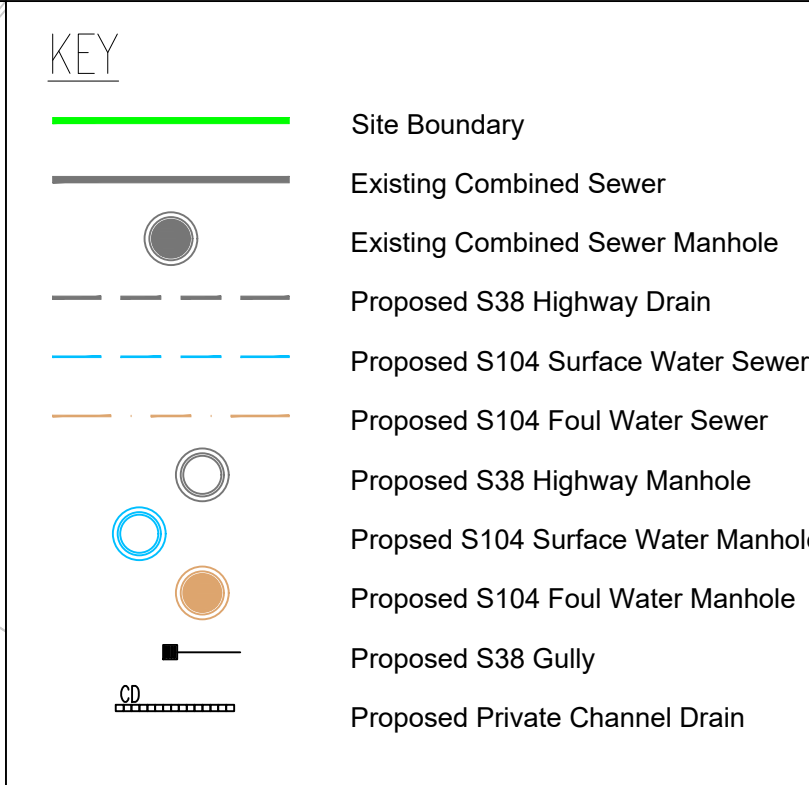
NOTE
Lateral sewers to be Plastidrain (110 & 160 O.D.) in UPVC and manufactured by Hepworth or similar approved by Yorkshire Water. Demarcation chamber to be polypropylene Non-Entry Inspection Chamber up to 2.0m depth manufactured by Wavin or similar approved by Yorkshire Water to BS EN 13598-1:2003.

NOTE
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.

S8 FLOW CONTROL DATA

MANUFACTURER	HYDRO INTERNATIONAL
TELEPHONE	01275 878371
TYPE	Hydrobrake Optimum
FLOW/HEAD	5.0l/s @ 2.200m
HYDRO REF	SHE-0089-5000-2200-5000
To be installed in accordance with manufacturers specifications and recommendations before the manhole cover slab is installed	

SUBJECT TO THE
APPROVAL OF
ALL RELEVANT
AUTHORITIES



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

- For longitudinal sections refer to drawing 0257-05-06.
 - No services are to be sited directly over, or within 1m of, an adoptable sewer or manhole.
 - Private drainage connections to adoptable sewers to be via 45° junction. Off site manholes already built must have invert levels checked prior to connection to the off site drainage.
 - Any connections to existing sewers/manholes are to be supervised by Yorkshire Water.
 - All connections to proposed public sewers to be minimum 150mm.
 - Any land drain or water course on site to be diverted as not to pass under proposed buildings. Diversion to be approved and inspected on site by the Local Authority.
- Yorkshire Water Notes**
- All adoptable sewer works and material to be in accordance with "Code for Adoption". The Relevant British/European and Yorkshire Water's Standards/Requirements/Addendum to the Mechanical and Electrical Specification and Kitemarked.
 - 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.
 - 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 run-off into the public sewer network or adoptable drainage system (directly or indirectly). An alternative method of disposal of the land drainage run-off will therefore be required and you will have to liaise with the Local Authority, Land Drainage Section regarding the disposal of the filter drain/land drainage run-off.
 - 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 or the width of the canopy at mature height.
 - 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 nonvehicular access areas) then a concrete slab should be provided above granular bed and surround.
 - Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).
 - Yorkshire Water policy is that Type "C" brick manholes and 1050mm diameter manhole rings are not preferred. Instead, it is preferred that you use a type "B" manhole with 1200mm diameter or 1500mm diameter rings, with the opening sited over the channel where depth of cover to pipe soffit is 1 - 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 require clay ware channel in manholes.
 - The minimum crushing strength for clay pipes should be as follows: 100mm dia. 40KN/m, 150mm dia. 40KN/m, 225mm dia. 45KN/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 be coated in plastic and must have lifting eyes suitably sized to accommodate standard lifting keys. Screw down covers are not acceptable.
 - There must be enough clearance at crossovers to accommodate bedding to both pipes, approx. 300mm ; if crossover is near the rocker then the clearance needed may need to be increased.
- General Notes**
- Precast concrete manhole units shall comply with the relevant provisions of BS EN 1917 and BS 5911-3 and shall be manufactured from concrete with a Design Chemical Class DC-4 unless the sewerage company can be satisfied that a lower class will resist attack from soils and groundwater. Units which bed into bases shall be manufactured so that imposed vertical loads are transmitted directly via the full wall thickness of the unit. The profiles of joints between units and the underside of slabs shall be capable of withstanding applied loadings from such slabs and spigot-ended sections shall only be used where the soffit of the slab is recessed to receive them.
 - All levels of existing drainage to be confirmed prior to work commencing on site.
 - The contractor must allow for any fee's required for road and sewer opening permits, sewer connections and make the appropriate applications.

M	MD	12.02.25	YW comments--manholes added at C1 & C2.	MD	MI
L	MD	07.02.25	Updated drainage pipe material	MD	MI
K	JMG	04.02.25	Updated to suit Yorkshire Water Comments	MD	MI
J	MD	16.01.25	Updated to latest Yorkshire Water Comments	MD	MI
I	MD	16.12.24	Updated to offsite combined sewer layout	MD	MI
H	MD	04.11.24	Amended to Kirklees Council comments	MD	MI
G	MD	28.05.24	SW Attenuation tank details updated	MI	MI
F	MD	15.04.24	Updated to suit revised drainage arrangement	MI	MI
E	RJ	13.05.22	Amended to new site layout	MI	MI
D	RJ	07.04.22	Amended to new site layout	MI	MI
C	RJ	01.03.22	Amended to suit section 104 comments	MI	MI
B	MB	04.11.21	Amended to suit section 104 comments	MI	MI
A	RJ	12.08.21	Attenuation tank shape amended	MI	MI
/	RJ	12.04.21	Issued for approval	MI	MI
Rev	By	Date	Revision	Chk	Apvd

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SECTION 104 LAYOUT

PROJECT
PLANE STREET
HUDDERSFIELD

CLIENT
UNITY HOUSING ASSOCIATION

DRAWING STATUS
FOR APPROVAL

Scale	Date	Drawn
1:200 @ A1	APR 21	RJ
Rev	Chk.	RJ

Drg. No. 0257/05/03.01 Rev M