

YORKSHIRE WATER NOTES:

- ALL ADAPTABLE 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 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 'S1' 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 BS1 KITEMARKED (CERTIFIED TO WIS 4-35-01 AND BS EN 13476). 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. 40kNm, 150mm DIA. 40kNm, 225mm DIA. 45kNm AND 300mm DIA. 72kNm. 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 EN 13476.
- 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.
- 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.

NOTES:

- THESE NOTES ARE INTENDED TO AUGMENT DRAWINGS AND SPECIFICATIONS. WHERE CONFLICT OF REQUIREMENTS EXIST THE ORDER OF PRECEDENCE SHALL BE AS SHOWN IN THE SPECIFICATION. OTHERWISE THE STRICTEST PROVISION SHALL GOVERN.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS AND ARCHITECTS DRAWINGS.
- DRAWINGS NOT TO BE SCALED. ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR. ANY DISCREPANCIES TO BE NOTIFIED TO THE ENGINEER AND FURTHER INSTRUCTIONS OBTAINED BEFORE WORK IS COMMENCED.
- ALL LEVELS ARE AOD (ABOVE ORDNANCE DATUM) UNO.

SURFACE WATER MANHOLE SCHEDULE

MH NAME	MH CL(m)	MH IL(m)	MH DEPTH (m)	MH TYPE	INLET PIPE INVERTS (m)	INLET PIPE DIAMETERS(mm)	OUTLET PIPE INVERTS(m)	OUTLET PIPE DIAMETERS(mm)	MH DIAM (mmØ)	COVER TYPE	COVER OPENING SIZE(mm)	SPECIAL MH DRG No.
SD1	197.844	195.558	2.286	TYPE C	DS01 196.385 DS02 196.570	150 150	S1.001 195.558	900	1800	D400	600 x 600	
SD2	197.682	195.557	2.125	TYPE C	S2.000 195.857 S3.000 195.857 DS03 196.307	600 600 150	S2.001 195.557	900	1800	D400	600 x 600	
SD3	197.969	195.543	2.426	TYPE B	S2.001 195.543 DS04 196.825	900 150	S2.002 195.543	900	1800	D400	600 x 600	
SD4	198.258	195.527	2.731	TYPE B	S1.000 195.527 S2.002 195.527	900 900	S1.001 195.527	900	1800	D400	600 x 600	
SD5	197.432	195.450	1.982	TYPE C	S1.001 195.500 DS05 196.660	900 150	S1.001 195.450	225	1800	D400	600 x 600	MDL-AWP-ZZ-XX-DR-C-3751
SD6	197.458	195.474	1.984	TYPE C	S4.000 195.474	225	S4.001 195.474	225	1200	D400	600 x 600	
SD7	197.142	195.400	1.742	TYPE B	S1.002 195.450 S4.000 195.450	225 225	EXGSTUB 195.450	225	1800	D400	600 x 600	MDL-AWP-ZZ-XX-DR-C-3752

FOUL WATER MANHOLE SCHEDULE

MH NAME	MH CL(m)	MH IL(m)	MH DEPTH (m)	MH TYPE	INLET PIPE INVERTS (m)	INLET PIPE DIAMETERS(mm)	OUTLET PIPE INVERTS(m)	OUTLET PIPE DIAMETERS(mm)	MH DIAM (mmØ)	COVER TYPE	COVER OPENING SIZE(mm)
FD1	197.838	195.621	2.217	TYPE B	DF01 195.671	100	F1.000 195.621	150	1200	D400	600 x 600
FD2	198.219	195.440	2.779	TYPE B	F1.000 195.440	150	F1.001 195.440	150	1200	D400	600 x 600
FD3	197.375	195.249	2.126	TYPE B	F1.001 DF02 196.299 (BD) DF03 195.299	150 100 100	F1.002	150	1200	D400	600 x 600
FD4	197.139	195.200	1.939	TYPE B	F1.002 195.200 DF04 195.250	150 100	EXGSTUB 195.200	150	1200	D400	600 x 600

SURFACE WATER DEMARCATION CHAMBER SCHEDULE

MH NAME	MH CL(m)	MH IL(m)	DC DEPTH (m)	OUTLET PIPE INVERTS(m)	OUTLET PIPE DIAMETERS(mm)	MH DIAM (mmØ)	COVER TYPE	COVER OPENING SIZE(mm)
DS01	197.776	196.385	1.391	196.385	150	1200	D400	600 x 600
DS02	198.029	196.570	1.459	196.570	150	1200	D400	600 x 600
DS03	197.760	196.350	1.410	196.350	150	1200	D400	600 x 600
DS04	198.154	196.825	1.329	196.825	150	1200	D400	600 x 600
DS05	197.713	196.660	1.053	196.660	150	600	B125	600Ø
DS06	197.117	195.515	1.602	195.515	300	1200	D400	600 x 600

FOUL WATER DEMARCATION CHAMBER SCHEDULE

MH NAME	MH CL(m)	MH IL(m)	DC DEPTH (m)	OUTLET PIPE INVERTS(m)	OUTLET PIPE DIAMETERS(mm)	MH DIAM (mmØ)	COVER TYPE	COVER OPENING SIZE(mm)
DF01	197.730	195.792	1.938	195.792	100	1200	D400	600 x 600
DF02	198.622	196.565	2.057	196.565	100	1200	D400	600 x 600
DF03	197.630	195.765	1.865	195.765	100	600	B125	600Ø
DF04	197.368	195.250	2.118	195.250	100	600	B125	600Ø

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