



Rising Main Size: 280mm O/D SDR11 HPPE
Non-degradable marker taper to be laid 300mm
above rising main.

NOTES

These drawings have been produced with reference to the CDM Regulations 2015. Please note that these are pre-construction phase drawings and should be subject to further design risk management as required in accordance with Regulation 9.

The residual risks identified on the DRA / drawings are based on the information available at the time of design.

Any services information indicated on PJA drawings is obtained from third parties, and is given for guidance purposes only. The exact location of any services will need to be verified by the client / contractor before commencing works on site.

THIS DRAWING IS ISSUED AS CONSTRUCTION
FOR CONTRACT PURPOSES ONLY. NO
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ADOPTING AUTHORITY AND AS SUCH ANY
WORKS UNDERTAKEN TO THESE DRAWINGS ARE
SOLELY AT THE CLIENTS RISK. REQUESTED
CHANGES BY THE ADOPTING AUTHORITY COULD
RESULT IN ABORTIVE WORKS. PJA ACCEPTS NO
LIABILITY FOR ANY ABORTIVE WORKS
UNDERTAKEN.

- Minimum radius for laying black HPPE pipe is 25 x rising main O.D
- Thrust blocks to be installed on every tight bend.
- Horizontal curvature to be greater than 22.5°, each bend to be separated by 1m straight run.
- In very minimum curve to top of pipe = 0.9m. In carriages and access ways minimum curve = 1.2m. Level of pipe as per invert levels shown.
- When negotiating rising main bends, where practical at every change of direction by approved concrete marker posts. The words 'pumped sewer' and depth to top of pipe in meters should be marked on posts.
- Non-ferrous marker tape (TerraSeal Seaway Line Detector) 620 or similar approved) shall be laid 300mm above top of pipe. The tape shall incorporate a track wire which shall be brought to the surface at every marker post (or approx 250m) and connected to a 10m long pole top marker. The tape shall be terminated with a 1m of wire coiled inside chamber, being brought through a sealed duct 300mm below F.G.L at discharge point marker tape should be terminated as follows:
- Rising main fittings to chambers to be ductile iron. Rising main pipework to be (B)M HPPE, size as noted on sections.
 - On gravity portion of (B)M, pipeline is to be butt-fused welded end-to-end during installation.
 - Departure from the design level of any point on the pipeline shall not exceed 300mm, excess of this will cause adverse hydraulic effect.
1. All works to be in accordance with 'Sewerage sector guidance - Appendix C - DCG 2002' and the Adopting Water Authority's recommendations. All testing shall be carried out as described in 'Sewerage sector guidance - Appendix C - DCG 2002'.
1. Contact pipe manufacturer for laying and proprietary construction details
- All works in vicinity of trees to be conducted as per the guidelines laid down in BS5857 'Trees in relation to construction'
 - All 'Statutory Undertakers' apparatus shown on these drawings should be taken as a guide only, care should be taken when excavating
 - All adopter's infrastructure must be laid in accordance with 'Sewerage sector guidance - Appendix C - DCG 2002', together with the Sewerage Undertaker's requirements.

KEY

— Surface Profile
— Rising Main IL

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