

Scale: 1/100 @ A1

Drawing Notes

1. Site Levels provided by Client. Levels Subject to change upon plot levels finalized.
2. The developer must self-ver and certify that the design criteria, material standards and workmanship specifications for the proposed adoptable sewers are in accordance with those set out in "Sewers for Adoption" 7th Edition, The Ministers Standards and the requirements of the Statutory Sewerage Undertaker.
3. E232 Manhole Cover and Frames. All chamber openings must have an impermeable surround compliant with SFA 7th Ed requirements. All access covers should comply to SFA 7th Ed dimensions and be supplied with spring/torsion assisted opening, plus have safety grilles fitted.
4. Manhole covers and frames shall comply with the relevant provisions of BS EN 124, BS 7903 and Highways Agency Guidance Document HA 104/09. They shall be of a non-rocking design which does not rely on the use of cushion inserts. All chamber openings must have an impermeable surround compliant with SFA 7th Ed requirements.
5. As a minimum, Class D400 covers shall be used in Driveways where vehicular access is possible. All chamber openings must have an impermeable surround compliant with SFA 7th Ed requirements.
6. Class B125 covers shall be used in footways, pedestrian areas and comparable locations. All chamber openings must have an impermeable surround compliant with SFA 7th Ed requirements.
7. All manhole covers shall be the non-ventilating type and shall have closed keyways.
8. All Pipes designed to be PVC-U in accordance with Sewers for Adoption 7th Edition. Approval from (Dwr Cymru) prior to construction.
9. E2.22 Thermoplastics Structures Wall Pipe.
10. Thermoplastics structures wall sewer pipe shall comply with the relevant provisions of BS EN 13476-1 and WIS 4-35-01 and BS EN 13476-2 or BS EN 13476-3. Pipes shall be BSI kitemarked or have equivalent Third Party Certification.
11. Pipes less than or equal to 500mm in diameter shall have nominal short-term ring stiffness not less than 8kN per m2 (SN8) or be subject to a quality system for storage and embedment.
12. Nominal short term ring stiffness of 2kN per m2 (SN2) is acceptable for pipes greater than 500mm in diameter, subject to structural design load calculations which shall be provided to support this.
13. Transportation, handling, storage and laying shall be in accordance with the manufacturer's recommendations.
14. Where a fitting is installed on a sewer length, it shall have the same internal bore as the sewer. Maximum length of pipe for laying is 3m or 10 x DN, whichever is the greater, unless welded joints are used.
15. The contractor SHALL verify invert level of the proposed outfall PRIOR to commencement of drainage works and report levels to the Engineer for approval.
16. All manholes to be constructed to Dwr Cymru standard adoptable details available online from <http://www.dwrcymru.com>.
17. All pipes to have 150mm granular bed and surround 20mm clean stone or approved alternative.
18. Pipes with cover lower than 500mm will require reinforced concrete slab protection as per Figure B.25 SFA 7th Edition. Slab to have minimum 300mm bearing each side of pipe and shall consist of 150mm depth of GEN3 Sulphate Resisting concrete complying to E4.1 of SFA7 specification. Reinforcement to be two layers of A393 reinforcement laid with 40mm cover to the underside of the slab.
19. New Foul connection to exiting DCWW Network.
20. Design based on provided utility information. There may be other services onsite which are unknown that could affect the location apparatus.
21. Soakaway Size based on Stone filled 95% Void Ratio Soakaway Design.

***NOT TO BE CONSTRUCTED UNTIL APPROVED BY SAB AUTHORITY. CONNECTION NOT TO BE MADE UNTIL APPROVAL AGREED WITH UTILITY PROVIDER.**

Key

- Proposed Private Foul Network
- Proposed Private Surface Water Network
- Surface Network Branch Connections Aco Drains
- Proposed Soakaway
- Proposed Water Reuse Tank
- Proposed Water Reuse Tank
- Concrete Protected Pipes



SCHEME:

Proposed New Development, High Barton, Manford, Wrexham

DRAWING TITLE:

Proposed Surface Water & Foul Networks
General Arrangement

DATE DRAWN: 11/01/2024 DATE CHECKED: 11/01/2024

SHEET: 1 of 2 SCALES: As Shown

Drawing No. CCDC0027/01/01 REV C