

SECTION 104 & 38 NOTES

1. All adoptable drainage works have been designed and are to be constructed in accordance with the current edition of the "Manual of Sewer Design" published by the Institution of Civil Engineers, 7th Edition, and which will be adopted by the Local Authority.
2. All clay pipe work shall be Extra Strength Clayware to BS EN 245:1991 Part 1.
3. All concrete pipe work shall be to the class stated on the drawings in accordance with BS EN 1916:2002.
4. All manholes and chambers shall be to BS EN 1917:2002.
5. The Contractor may need to use reinforced PVC pipes as specified in the design.
6. All pipe work shall be to the class stated on the drawings up to and including 300mm (9" prior agreement with adopting authority) MAX. PIPE LENGTH TO BE 30m.
7. This drawing is to be used in conjunction with all other relevant drawings.
8. House drainage connections to sewers must be 150mm & 150mm.
9. House drains on dry or damp ground are to be constructed to the class stated on the drawings.
10. They serve wherever possible.
11. The Contractor should satisfy himself as to the position and depth of any existing Statutory Undertakers point which could affect the works.
12. Road works shall be carried out in accordance with the current edition of the "Manual of Road Works" published by the Institution of Civil Engineers, 7th Edition, and which will be adopted by the Local Authority.
13. Junction pipes to establish sewers shall be by manufactured junctions.
14. All sewers for adoption with greater than 120 metres cover in roads or 60m metres cover in fields shall have Class S granular bed.
15. Any sewer for adoption with less than 1.2 metres cover in roads or 0.3 metres cover in fields shall have a minimum of 150mm ST4 concrete surround. Flexibility shall be maintained by the provision of a concrete surround.

SITE TEAMS INSTALLING STRUCTURAL WALL PLASTIC COURSE AND TO HAVE A VALID CERTIFICATE FROM THE BPF PLASTIC PIPE GROUP STRUCTURAL WALL UPVC PIPES ARE TO BE Laid IN 3m LENGTHS

OUTSIDE OF NEW SEWERS TO BE LOCATED 1.0m MINIMUM FROM KERBLINES OUTSIDE OF MANHOLE CHAMBERS TO BE LOCATED 0.5m MINIMUM FROM KERBLINES

ALL PIPES TO HAVE CLASS "S" BED AND SURROUND UNLESS SHOWN OTHERWISE

ALL CONCRETE PIPES TO BE CLASS S20 VITRIFIED CLAY ALL UPVC PIPES TO COMPLY WITH BS 4680:2000 & BS EN 1401-1

STRUCTURED WALL UPVC PIPES TO COMPLY WITH BS 4680:2000 & BS EN 1401-1

FOUNDATIONS TO BE DESIGNED CONSTRUCTED TO THE DEPTH OF ADJACENT SEWERS AND DRAINS IN ACCORDANCE WITH SFA 7TH EDITION PART B

CONTRACTOR TO BE AWARE OF AND TAKE RESPONSIBILITY FOR THE PROTECTION OF ANY EXISTING STRUCTURES, TREES, EMBANKMENTS OR OTHER FEATURES DOES NOT OCCUR AS A RESULT OF ANY EXCAVATIONS WORKS SHOWN ON THIS DRAWING IF CONTRACTOR IS UNSURE ABOUT ANY ASPECT OF THE ABOVE HE SHOULD SEEK ADVICE BEFORE COMMENCING EXCAVATION WORK.

ALL EXISTING SERVICES TO BE LOCATED AND PROTECTED ACCORDINGLY DURING THE WORKS

ALL EXISTING MANHOLE INVERT LEVELS ARE TO BE LOCATED AND SURVEYED PRIOR TO START ON SITE TO ENSURE THAT THEY ARE CORRECT AND ALSO TO ENSURE THAT LEVEL CLASHES ARE REPORTED TO REFA PRIOR TO START TO ENABLE ANY CHANGES TO BE MADE TO DESIGN THAT PROVE NECESSARY

ALL DRAINOUT CONNECTIONS FROM MAIN SEWER TO BE 150mm & UNLESS INDICATED OTHERWISE

ALL STORAGE MANHOLES ON THE RANK SEWER SHALL BE LOCATED AND SURVEYED PRIOR TO START ON SITE TO ENSURE THAT THEY ARE CORRECT AND ALSO TO ENSURE THAT LEVEL CLASHES ARE REPORTED TO REFA PRIOR TO START TO ENABLE ANY CHANGES TO BE MADE TO DESIGN THAT PROVE NECESSARY

ALL ROAD GULLY CONNECTIONS TO BE 150mm

THE OFF SITE SEWER CONNECTIONS HAVE BEEN DESIGNED TO THE IN WITH THE EXISTING SEWERS AND WHILST IT IS ANTICIPATED NO CLASHES WITH EXISTING SERVICES WILL OCCUR

OF EXISTING SERVICES THIS CANNOT BE GUARANTEED.

REFA WOULD ADVISE THE CLIENT TO EMPLOY A SURVEY EXPERIENCED COMPANY TO UNDERTAKE A SURVEY ALONG THE ROUTE OF THE CONNECTIONS TO ASCERTAIN THE EXISTENCE AND POSITION OF ANY EXISTING SERVICES AND OF ANY POTENTIAL CLASHES TO ASCERTAIN IF DESIGN CHANGES CAN BE MADE.

DUE TO THE NEED FOR OFF SITE SEWER WORKS IT IS STRONGLY ADVISED THAT THESE ARE CONSTRUCTED PRIOR TO ANY WORKS ON SITE TO ALLOW DESIGN CHANGES ON SITE TO BE MADE IN THE EVENT THAT THE OFF SITE DESIGN REQUIRE REVISION.

REFA WILL NOT BE HELD RESPONSIBLE FOR ANY ADJUNCT WORKS IF THIS PROCEDURE IS NOT FOLLOWED

CONTRACTOR/CLIENT SHOULD NOTE THE EXISTENCE OF EXISTING BURIED PLANT AND SERVICES AND THE POSITION OF ANY EXISTING SERVICES AND PROVIDE METHOD STATEMENT FOR WORKING IN THIS AREA TO THE PRINCIPLE DESIGNER

CONTRACTOR TO ALLOW FOR REBUILDING EXISTING MANHOLE TO CURRENT STANDARDS IF CONNECTION CANNOT BE MADE IN ACCORDANCE WITH UNDERLAINERS GUIDELINES

TO CARE FOR ANY DEVIATIONS IN THE AS CONSTRUCTED ROAD / FOOTPATH LEVELS IN RELATION TO THE DESIGN LEVELS

THESE SHALL BE CHECKED ON SITE BY THE SITE AGENT OR ENGINEER IN RELATION TO AS BUILT ROAD LEVELS TO ENSURE COMPLIANCE WITH PART M OF THE BUILDING REGULATIONS

THIS DRAWING IS BASED ON PLANNING LAYOUT PROVIDED BY CLIENT  
DRAWING NUMBER: AH065  
REVISION: P

CLIENT TO ENSURE THE ABOVE LAYOUT IS CURRENT BEFORE USING THIS DRAWING FOR CONSTRUCTION PURPOSES

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NOTE 1. SFA 7TH EDITION

NOTE 2. CONNECTION

NOTE 3. MATERIALS

NOTE 4. BENCH MARK INFORMATION

NOTE 5. DRAWING INFORMATION

NOTE 6. PLEASE NOTE THAT THIS DRAWING IS ISSUED FOR INFORMATION/TENDER PURPOSES ONLY UNTIL TECHNICAL APPROVAL HAS BEEN GRANTED. ANY WORK UNDERTAKEN PRIOR TO TECHNICAL APPROVAL BEING GRANTED IS AT THE CLIENTS RISK.

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NOTE 1