

KEY:

- PROPOSED SEWER DIVERSION
- FW3 — PROPOSED MANHOLE ON ROUTE OF DIVERTED SEVERN TRENT SEWER
- SEVERN TRENT SEWER EASEMENT AS DIMENSIONED
- SEWER TO BE ABANDONED
- EXISTING SEWER TO REMAIN
- DEVELOPERS SITE BOUNDARY

NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE.
2. ALL DRAINAGE WORKS ARE TO COMPLY WITH THE REQUIREMENTS OF BS 752 BUILDING DRAINAGE AND BUILDING REGULATIONS 2000 APPROVED DOCUMENT H 2002 EDITION.
3. ALL MATERIALS, UNLESS SPECIFIED OTHERWISE, SHALL COMPLY WITH THE RELEVANT BRITISH STANDARD. SOURCES OF MATERIALS ARE TO BE AGREED WITH THE EMPLOYER'S REPRESENTATIVE/ENGINEER IN ADVANCE OF THE WORKS.
4. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ENGINEERING DRAWINGS AND DETAILS AND CONTRACT DOCUMENTATION
5. ANY DISCREPANCIES IN THE DETAILS SHOWN TO BE REPORTED TO THE EMPLOYER'S REPRESENTATIVE/ENGINEER PRIOR TO CONSTRUCTION.
6. LOCATION AND LEVELS OF EXISTING DRAINAGE RUNS ARE BASED UPON SEWER RECORD PLANS AND MUST BE CHECKED ON SITE PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORKS.
7. ALL EXISTING SERVICES TO BE LOCATED PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORKS WHERE NECESSARY PROTECTION OR DIVERSIONS TO BE UNDERTAKEN TO AVOID CONFLICT WITH THE PROPOSED WORKS.
8. ALL DRAINAGE AND FITTINGS TO BE FLEXIBLY JOINTED CLAYWARE TO BS EN295 OR CONCRETE TO BS5911 PART 100 OR FLEXIBLY JOINTED UPVC PIPES AND FITTINGS TO WIS No 4-13-05.
9. TYPICAL PIPE BEDDING TO DRAINAGE WHERE DEPTH TO SOFFIT IS GREATER THAN 900mm IN LANDSCAPED AREAS AND GREATER THAN 1200mm IN TRAFFICKED AREAS IS TO BE CLASS S (I.E. 10-14mm GRADED IMPORTED GRANULAR BED AND SURROUND FOR PIPES UP TO 525ø AND 20 - 40mm GRADED IMPORTED GRANULAR BED AND SURROUND FOR PIPES GREATER THAN 525ø)
10. WHERE DEPTH TO SOFFIT OF DRAINAGE PIPEWORK IS LESS THAN 900mm IN LANDSCAPED AREAS AND LESS THAN 1200mm IN TRAFFICKED AREAS THEN PIPEWORK IS TO BE PROTECTED WITH 150mm MINIMUM THICK CONCRETE BED & SURROUND.
11. BACKFILL TO DRAINAGE TRENCHES UNDER CARRIAGEWAYS TO BE TYPE 1 SUB-BASE MATERIAL. ELSEWHERE BACKFILL TO BE FREE DRAINING READILY COMPATIBLE MATERIAL, FREE FROM RUBBISH AND ORGANIC MATTER, FROZEN SOIL CLAY LUMPS AND LARGE STONES, TO BE COMPACTED IN LAYERS NOT EXCEEDING 150mm THICK.
12. MANHOLE DIAMETERS SHOULD BE IN ACCORDANCE WITH THE TABLE BELOW:

DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)
LESS THAN 375	1200 *
375-450	1500
500-700	1500
750-900	1800
900 AND ABOVE	PIPE DIAMETER + 900

13. A FLEXIBLE JOINT SHALL BE PROVIDED AS CLOSE AS IS FEASIBLE TO OUTSIDE FACE OF ANY STRUCTURE INTO WHICH A PIPE IS BUILT, COMPATIBLE WITH THE SATISFACTORY COMPLETION AND SUBSEQUENT MOVEMENT OF THE JOINT. THE LENGTH OF THE NEXT PIPE (ROCKER PIPE) AWAY FROM THE STRUCTURE SHALL BE AS SHOWN IN THE TABLE BELOW.

NOMINAL DIAMETER (mm)	EFFECTIVE LENGTH (m)
150-600	0.6
675-750	1.0
825 AND OVER	1.25

14. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM.
15. EXISTING SEWER WILL BE ABANDONED BY GRUBBING UP WITH FOUNDATION EXCAVATION.
16. PLASTIC PIPES WILL BE MANUFACTURED BY POLYPIPE

FOUL SEWER DIVERSION MANHOLE SCHEDULE

REF	COVER LEVEL (APPROX) (m)	MANHOLE INTERNAL DIA (mm) M.H. TYPE	LAYOUT	PIPE REF	INVERT LEVEL (m)	INCOMING PIPE DIA (mm)	OUTGOING PIPE DIA (mm)	DEPTH OF COVER TO PIPE SOFFIT (m)	MANHOLE COVER GRADE TO BS EN124
FW1	104.090	1200mm TYPE.B CONCRETE	2 1	1 2	101.500 101.500	150	150	1.10	D400 1200X675 CLEAR-OPENING
FW2	102.688	1200mm TYPE.B CONCRETE	2 1	1 2	100.810 100.810	150	150	1.35	D400 1200X675 CLEAR-OPENING
FW3	102.533	1200mm TYPE.B CONCRETE	2 1	1 2	100.519 100.519	150	150	1.32	D400 1200X675 CLEAR-OPENING
FW4	102.054	1200mm TYPE.B CONCRETE	2 1	1 2	99.155 99.155	150	150	1.09	D400 1200X675 CLEAR-OPENING

Rev	Description	Chk'd/App'd	Date
B	Sewer to be abandoned amended to red.		09.09.16
A	Drawing amended in accordance with STW comments dated 22.08.16		01.09.16

Issue

SECTION 185

Client/Architect
SHERWOOD HOMES

Contract
BLACK LANE
WHISTON

Title
SECTION 185 SEWER DIVERSION

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Drawn HEB
Checked Approved

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