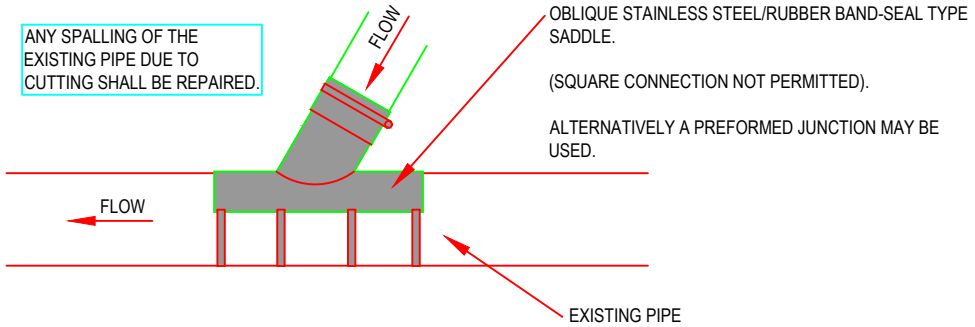
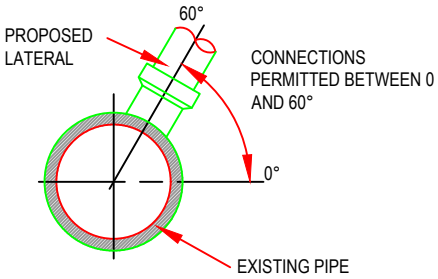


CONNECTION TO SAME SIZE DIAMETER PIPE
(PLAN)



CONNECTION TO AN EXISTING LARGER DIAMETER SMOOTH WALL PIPE
(PLAN)



ACCEPTABLE CONNECTION LOCATION
(SECTION)

GENERAL NOTES

1. ALL DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH NORTH YORKSHIRE COUNCIL (NYC) SPECIFICATION FOR HOUSING AND INDUSTRIAL ESTATE ROADS AND PRIVATE STREET WORKS, INTERIM GUIDANCE NOTE 16 (DRAINAGE AND SUDS), AND THE MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS (MCHW).
2. THE USE OF OVERSIZED PIPES FOR SURFACE WATER ATTENUATION WITHIN THE ADOPTED HIGHWAY IS DISCOURAGED AND WILL ONLY BE PERMITTED WHERE ALL ALTERNATIVE SUDS OPTIONS HAVE BEEN DEMONSTRABLY DISCOUNTED AND WITH PRIOR AGREEMENT OF THE HIGHWAY AUTHORITY.
3. ATTENUATION PIPES, FLOW CONTROL CHAMBERS AND STORAGE FEATURES SHOULD BE LOCATED OUTSIDE OF THE ADOPTED CARRIAGEWAY WHEREVER PRACTICABLE. WHERE LOCATED WITHIN THE HIGHWAY, THEIR USE SHALL BE SUBJECT TO SPECIFIC APPROVAL AND MAY REQUIRE TECHNICAL APPROVAL AS A DEPARTURE FROM STANDARDS.
4. PIPES OR STRUCTURES EXCEEDING 900MM DIAMETER OR EQUIVALENT CLEAR SPAN SHALL BE TREATED AS STRUCTURES AND WILL REQUIRE TECHNICAL APPROVAL IN ACCORDANCE WITH NYC PROCEDURES.
5. MINIMUM COVER TO PIPEWORK SHALL BE 1.2M UNLESS OTHERWISE AGREED (600MM ABSOLUTE MINIMUM WITH CONCRETE PROTECTION). PIPES SHALL BE LOCATED A MINIMUM OF 1.0M FROM KERB LINES AND MANHOLES A MINIMUM OF 0.5M FROM KERB LINES. THERE MUST BE AN ACCESS POINT WHEREVER THERE IS A CHANGE IN SIZE OF SEWER.
6. LAYOUTS SHOWN ARE INDICATIVE ONLY. FINAL ARRANGEMENTS SHALL BE SUBJECT TO SITE-SPECIFIC DESIGN, HYDRAULIC MODELLING AND APPROVAL BY THE HIGHWAY AUTHORITY.
7. WHERE THE DRAINAGE SYSTEM SERVES BOTH HIGHWAY AND DEVELOPMENT AREAS, IT IS LIKELY TO BE ADOPTED BY THE RELEVANT WATER AUTHORITY UNDER A SECTION 104 AGREEMENT AND SHALL COMPLY WITH THEIR REQUIREMENTS.
8. ANY CONNECTION TO A PUBLIC SEWER SHALL BE SUBJECT TO APPROVAL BY THE RELEVANT WATER AUTHORITY UNDER SECTION 106 OF THE WATER INDUSTRY ACT.
9. PIPE MATERIALS, BEDDING AND CONSTRUCTION SHALL COMPLY WITH MCHW SERIES 500 AND NYC SPECIFICATION SECTION 05.
10. ALL PROPOSALS SHALL BE APPROVED BY THE HIGHWAY AUTHORITY AND RELEVANT WATER AUTHORITY PRIOR TO CONSTRUCTION. COMMUTED SUMS MAY BE REQUIRED FOR NON-STANDARD DRAINAGE FEATURES.
11. DESIGNS SHALL CONSIDER LONG-TERM MAINTENANCE REQUIREMENTS AND PROVIDE SUITABLE ACCESS FOR INSPECTION, CLEANSING AND REPAIR.
12. 1200 Ø FOUL MANHOLE SHOWN AS THIS IS THE MINIMUM SIZE SUITABLE FOR ADOPTION.
13. SEWER SIZES IN ACCORDANCE WITH SFA TABLE B1 BELOW: (NOTE THAT IF THERE ARE MORE THAN 4 CONNECTIONS INTO ANY ONE MANHOLE THEN THE MANHOLE SIZE MUST BE UPSIZED TO THE NEXT INCREMENT.) ** insert table**
14. FOR INFORMATION, A 900Ø CONCRETE SEWER HAS A MINIMUM WALL THICKNESS OF 90mm AS ILLUSTRATED.. MANHOLES NOT POSITIONED AT SAME ROAD CHAINAGE, ON PLAN WOULD BE STAGGERED.
15. PIPES AND MANHOLES OF A "TRADITIONAL" CONSTRUCTION WITH 900 DIA CONCRETE PIPE AND 1800 DIA MANHOLE. A MORE OPTIMUM SOLUTION WOULD BE WITH STEEL REINFORCED PLASTIC STORMWATER PIPES SINCE SMALLER ACCESS MANHOLES CAN BE UTILISED THEREFORE REDUCING OVERALL EXCAVATION DEPTHS AND ROADSPACE REQUIRED.
16. THERE IS A POTENTIAL FOR ALTERNATIVE ARRANGEMENTS INCLUDING NON MAN ENTRY 900 INTERNAL DIAMETER ACCESS CHAMBERS TO THE SURFACE WATER ATTENTUATION PIPES. THIS IS CURRENTLY UNDER CONSIDERATION BY YORKSHIRE WATER AND ONCE A CONCLUSION HAS BEEN REACHED THEN THIS MAY BE A VIABLE ALTERNATIVE SOLUTION. ADDITIONALLY THE USE OF STEEL REINFORCED PLASTIC PIPES OFFERS INCREASED EFFICIENCIES IN TERMS OF SMALLER ACCESS MANHOLES, REDUCED BEDDING AND REDUCED EXCAVATIONS SIZES.
17. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

Do not scale

REVISIONS	
VERSION	DETAILS
A	REVISED IN ACCORDANCE WITH NYC SPECIFICATION FOR HOUSING AND INDUSTRIAL ESTATE ROADS AND PRIVATE STREET WORKS, APRIL 2025

NORTH YORKSHIRE COUNCIL
Environment Directorate

PROJECT: STANDARD DETAILS

DATE: SEPTEMBER 2025

DRAWING TITLE: C10 - PIPE CONNECTION DETAILS

SCALE: Not to Scale

Revision A

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ORIGINAL DRAWING SIZE A4