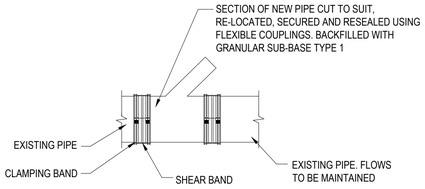


POLYPROPYLENE INSPECTION CHAMBER DETIALS

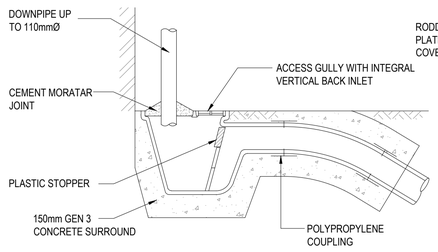


A SUITABLE SECTION OF PIPE IS CUT AND REMOVED FROM THE EXISTING PIPELINE, THE NEW JUNCTION IS LOCATED, THE ORIENTATION OF THE JUNCTION ARM ESTABLISHED AND THE NEW JUNCTION SECURED AND SEALED INTO THE PIPELINE USING FLEXIBLE COUPLINGS

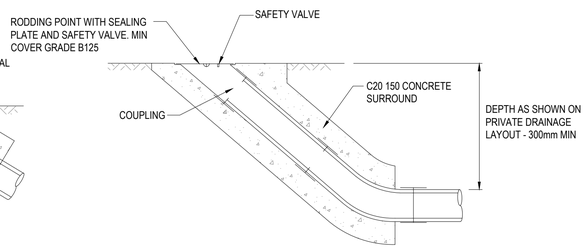
NOTE

1. THE REPLACEMENT PIPE OR JUNCTION SHOULD LEAVE A TOTAL LENGTH OF 20MM LESS THAN THAT BETWEEN THE CUT ENDS OF THE EXISTING PIPELINE.
2. COUPLINGS SHOULD BE TIGHTENED EITHER STARTING WITH THE SHEAR BAND FOLLOWED BY THE CLAMPING BANDS OR WORKING ACROSS THE COUPLINGS FROM ONE OF THE CLAMPING BANDS.
3. IT IS IMPORTANT TO ENSURE THAT THE ENDS OF THE PIPES ARE CUT SQUARE AND THAT THERE IS SUFFICIENT CLEARANCE BETWEEN THE ENDS OF THE PIPES TO ALLOW FLEXIBLE MOVEMENT TO TAKE PLACE.

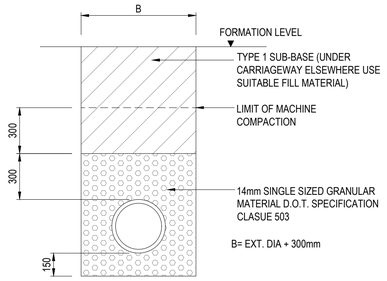
JUNCTION INSERTION



ACCESS GULLY DETAIL

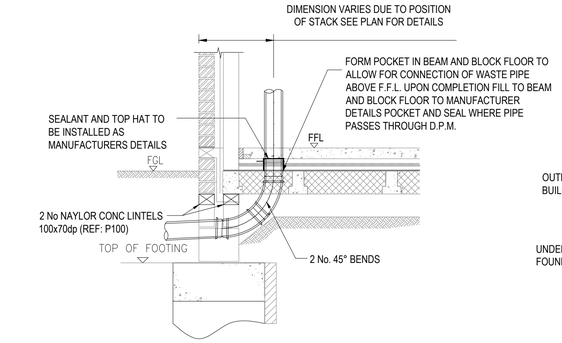


RODDING EYE DETAIL

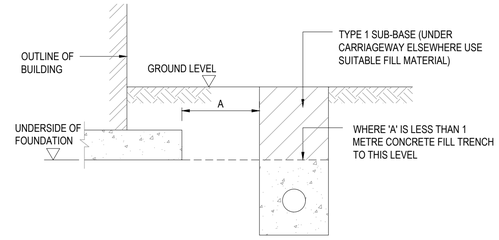


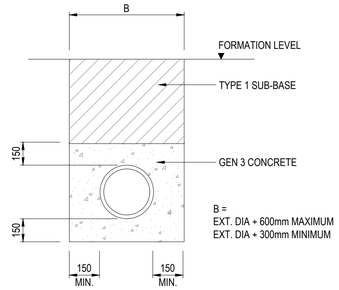
CLASS `S' BEDDING DETAIL

TYPE 'S' BEDDING TO BE USED FOR PIPES GENERALLY IN FOOTWAY AND LANDSCAPED AREAS, AND FOR PIPES UNDER TRAFFICKED AREAS WITH MORE THAN 1.2m COVER



DRAIN CONNECTION DETAIL AT EXTERNAL WALL LOCATION

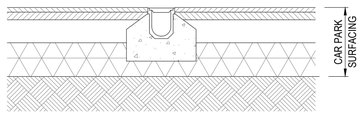




DETAIL OF CLASS `Z' CONCRETE SURROUND

(FOR PIPES UNDER TRAFFICKED AREAS WITH <1.2m COVER)

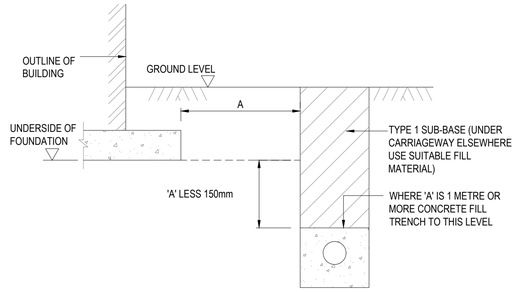
DRAINAGE CHANNEL GRATING
APPROXIMATELY 5mm BELOW
FINISHED CAR PARK LEVEL.



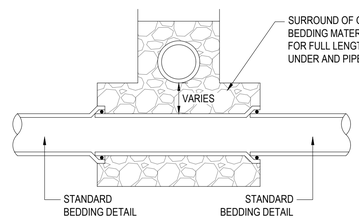
SECTION THROUGH DRAINAGE CHANNEL

NOTE

1. CONCRETE BEDDING TO BE GRADE ST1
2. COVER LOAD CLASS TO BE MINIMUM B125
3. GRATING TO BE CAST IRON
4. REFER TO MANUFACTURERS TECHNICAL DETAILS FOR DIMENSIONS

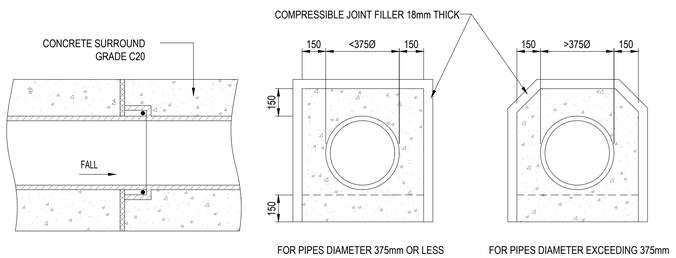


TRENCH DETAIL FOR FW AND SW PIPE RUNS NEAR BUILDING FOUNDATIONS

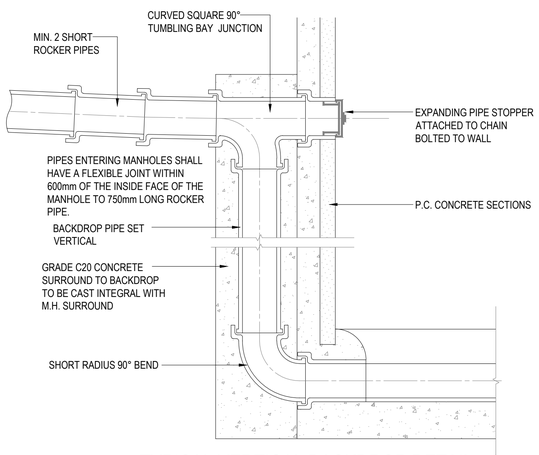


PIPE CROSSINGS OVER

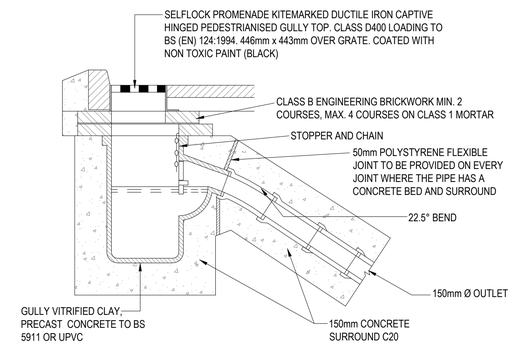
STANDARD MIX	GRADE OF CONCRETE	APPLICATIONS
ST1	C7.5	FILLINGS, BLINDINGS, SOFT SPOTS AND DRAINAGE SUMPS
ST4	C20	ALL OTHER APPLICATIONS



DETAILS OF FLEXIBLE JOINT FOR PIPES WITH CONCRETE SURROUND (150mm THICK) PROVIDED AT EACH PIPE JOINT



TYPICAL VERTICAL BACKDROP DETAIL



SIZE OF GULLY (mm)	GULLY FRAME		
	MIN.WIDTH	MIN.AREA OF WATERWAY	MIN.DEPTH OF FRAME
450x750 DEEP	450mm	900cm^2	75mm

NOTES
1. GULLY, GRATING AND FRAME TO COMPLY WITH BS EN 124
2. BACKFILL TO GULLY CONNECTIONS BELOW FORMATION IN CARRIAGEWAYS SHALL BE TYPE 1 SUB-BASE MATERIAL. WHERE MECHANICAL COMPACTION IS IMPRACTICAL THE BACKFILLING SHALL BE GRADE C10P/20 CONCRETE.
3. GULLY GRATING AND FRAME TO BE HINGED TYPE.

TYPICAL GULLY DETAIL

NOTES

1. SETTING OUT SHALL BE UNDERTAKEN USING ONLY THE INFORMATION GIVEN. DISTANCES SHOULD NOT BE SCALED FROM THIS DRAWING.
2. ALL SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION GUIDANCE AND WHERE APPLICABLE UNITED UTILITIES DETAILS
3. THE MINIMUM GRAVITY PIPE DIAMETER UNDER ADOPTABLE HIGHWAYS SHALL BE 150mm
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION GIVEN WITH REGARDS TO EXISTING SERVICES AND DRAINAGE CONNECTIONS ETC. PRIOR TO COMMENCING THE WORKS. THE RATES SHALL INCLUDE FOR HAND DIG AROUND SERVICES WHERE NECESSARY. THE CONTRACTOR SHALL ADHERE TO THE CDM REGULATIONS AT ALL TIMES
5. THE OUTSIDES OF ALL SEWERS SHALL BE A MINIMUM OF 1.0m FROM KERB LINES AND THE OUTSIDE OF MANHOLES SHALL BE A MINIMUM OF 0.5m FROM KERB LINES
6. EXISTING FLOWS IN WATERCOURSES, SEWERS AND LAND DRAINS SHALL BE MAINTAINED AT ALL TIMES
7. ONLY TRAINED PERSONNEL SHALL BE PERMITTED TO ENTER CONFINED SPACES
8. ALL MATERIALS TO BEAR THE RELEVANT B.S. KITEMARK AND COMPLY FULLY WITH THE SPECIFICATIONS. ALL CONCRETE & CONCRETE PRODUCTS MUST USE SULPHATE RESISTANT CEMENT (UNLESS THE SITE INVESTIGATION REPORT PROVES THAT SULPHATE ATTACK FROM SOILS AND GROUNDWATER WILL NOT OCCUR TO WITHSTAND A CLASS
9. ALL OPENING NOTICES ETC. AS REQUIRED UNDER HIGHWAYS ACTS ETC. ARE TO BE OBTAINED PRIOR TO COMMENCEMENT OF WORKS. ALL WORKS ARE TO BE INSPECTED BY L.A., NHBC OR THE NETWORK OPERATOR AS APPLICABLE.
10. WHERE "ULTRA RIB" UPVC PIPES (OR SIMILAR APPROVED) ARE USED IN ADOPTABLE DRAINAGE THEY SHALL STILL BE HANDLED AND LAID IN ACCORDANCE WITH THE SPECIFICATION AND GUIDANCE ISSUED BY THE HIGH-PERFORMANCE PIPE ASSOCIATION.
11. A CLASS S BED AND SURROUND MUST BE USED FOR SUCH PIPES. TRENCH BACKFILL IN HIGHWAYS TO WITHIN 1m OF HIGHWAY SHALL, AS DIRECTED BY THE HIGHWAY AUTHORITY BE A SUITABLE GRANULAR MATERIAL ALL IN ACCORDANCE WITH SEWERS FOR ADOPTION CL. 4.3.4.
12. SLAB LEVELS SHALL NOT BE VARIED WITHOUT REFERENCE TO THE ENGINEER FOR GUIDANCE
13. DOMESTIC DRAINAGE SHALL BE TO BUILDING REGULATIONS APPROVED DOCUMENT H. 110mm U/P V.C. PIPES LAID TO THE FOLLOWING MINIMUM FALLS UNLESS OTHERWISE SHOWN.

	FOUL	S.W.
HEAD RUN	1 IN 40	1 IN 60
ELSEWHERE	1 IN 80	1 IN 100

14. ALL GULLY CONNECTIONS TO BE 150mm VITRIFIED CLAY UNLESS NOTED OTHERWISE
15. MINIMUM COVER TO DRAINAGE SOFFIT LEVEL;

LANDSCAPING	TRAFFICKED AREAS	HIGHWAYS
0.600m	0.900m	1.200m

- CLASS 'S' BEDDING AND SURROUND TO BE USED WHERE MINIMUM COVER IS ACHIEVED.
- WHERE MINIMUM COVER IS NOT ACHIEVED CLASS 'Z' BEDDING AND SURROUND (CONCRETE ENCASEMENT) IS TO BE USED.

16. ALL PIPES TO BE 100Ø UNLESS NOTED
17. DRAINAGE CHANNELS ARE TO CONNECT DIRECTLY INTO ATTENUATION TANK
18. ALL INSPECTION CHAMBER SIZES TO BE 450Ø

REVISIONS

REV	DESCRIPTION	DATE	BY
A	FIRST ISSUE	11.04.24	LC

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Office of Origin: Manchester Tel: 0161 832 4400
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Client Name:
R & M PROPERTY GROUP LTD

Project Title:
CROSS LANE / VAREY STREET
GORTON

Drawing Title:
TYPICAL DRAINAGE DETAILS
SHEET 1

Date:	11.04.2024	Drawn By:	LC
Scale:	1:20 @ A1	Checked:	AMc
Status:	DESIGN	Approved:	NMc

Drawing No. SCP-230871-S106-0500-050 Rev. A

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