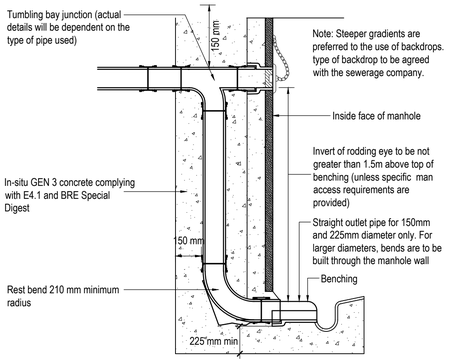
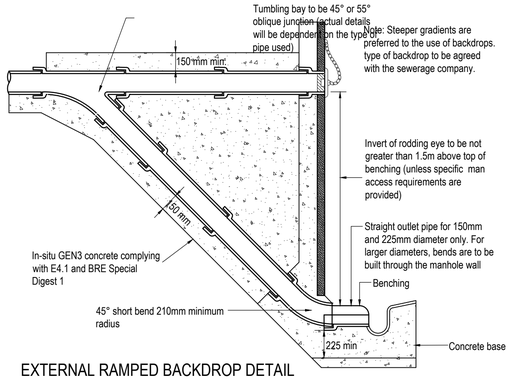


EXTERNAL VERTICAL BACKDROP DETAIL

RIGID MATERIALS

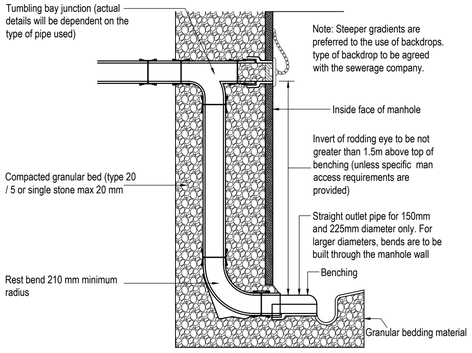
1:25



EXTERNAL RAMPED BACKDROP DETAIL

RIGID MATERIALS

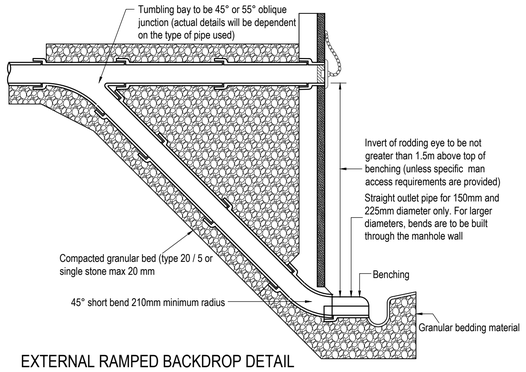
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EXTERNAL VERTICAL BACKDROP DETAIL

FLEXIBLE MATERIALS

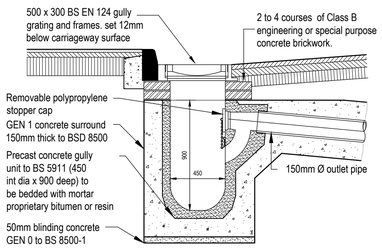
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EXTERNAL RAMPED BACKDROP DETAIL

FLEXIBLE MATERIAL

1:25



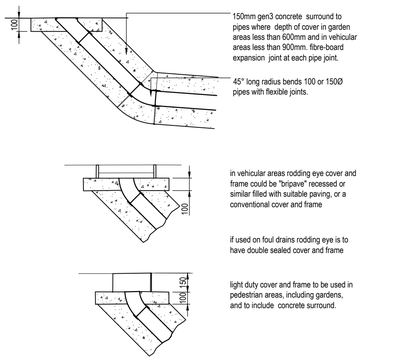
TYPICAL GULLY DETAIL

1:25

GULLY NOTES:

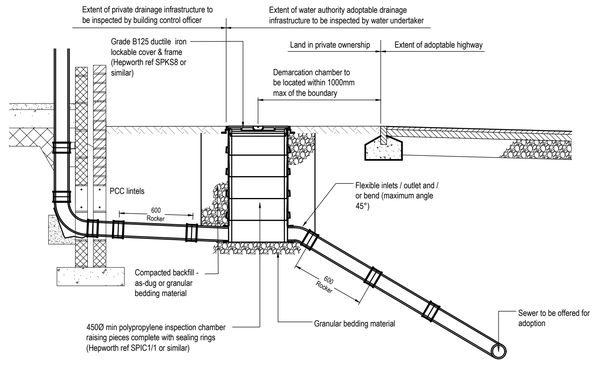
1. Gully to comply with specification Clause 508.3.
2. Depth of outlet to be 750mm min under carriageway and 600mm elsewhere, unless agreed otherwise.
3. All mortar to be designation (i).
4. Grating to be between 5mm and 10mm below adjacent surfacing and laid in accordance with SHW Clause 508.8
5. Gully grating and frame shall be to Bs EN 124 of minimum width 450mm, and minimum water way area of 900cm². Distribution of the water way area shall conform to Figure 2 of BS 7903. Minimum frame depths to be:
   - Class D400 - 100
   - Class C250 - 75

   Class D400 to be used unless specified otherwise.



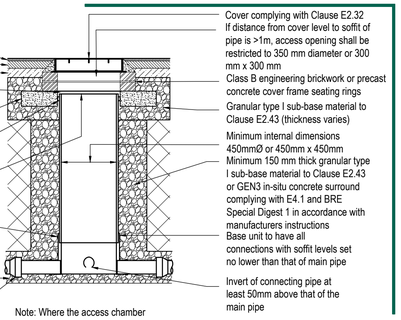
TYPICAL RODDING EYE DETAIL

1:25



TYPICAL 475Ø POLYPROPYLENE DEMARCATION CHAMBER DETAIL - TYPE 3 SHOWING DETAIL OF ADOPTABLE LATERAL CONNECTION

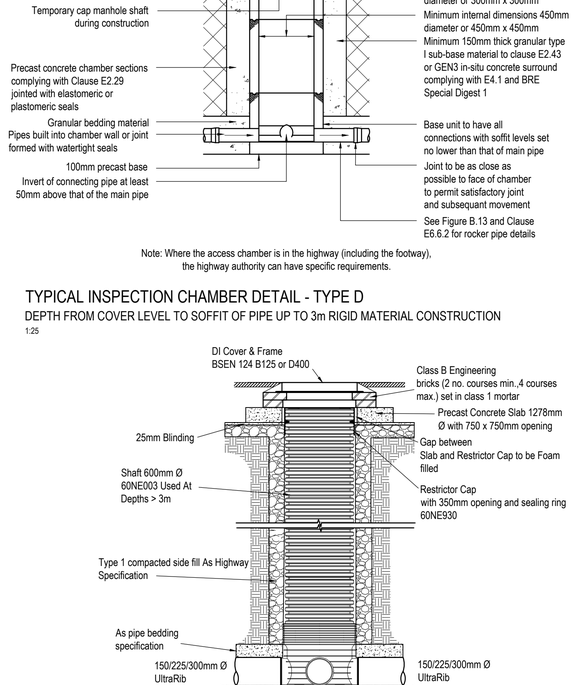
1:25



ALTERNATIVE TOP DETAILS FOR LIGHT VEHICULAR LOADING AND LANDSCAPED AREAS - TYPE 3

SITED IN DOMESTIC DRIVEWAYS OR FOOTWAYS

SITED IN DOMESTIC GARDENS



TYPICAL INSPECTION CHAMBER DETAIL - TYPE D

DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE UP TO 3m

FLEXIBLE MATERIAL CONSTRUCTION FOR USE IN AREAS SUBJECT TO VEHICLE LOADING

1:25

Note: Where the access chamber is in the highway (including the footway), the highway authority can have specific requirements.

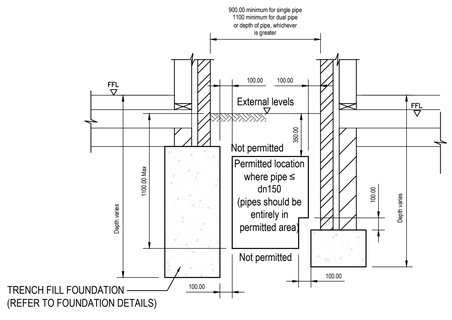
TYPICAL INSPECTION CHAMBER DETAIL - TYPE D

DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE UP TO 3m RIGID MATERIAL CONSTRUCTION

1:25

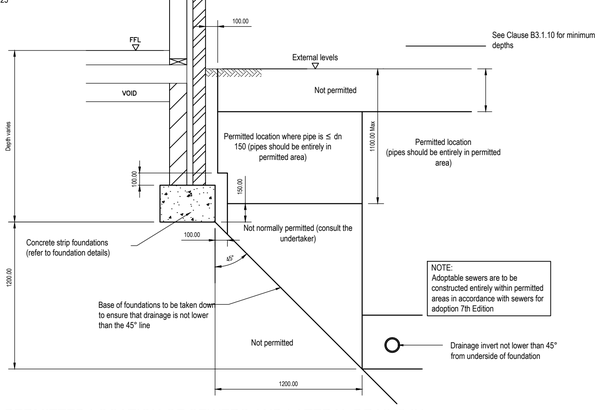
TYPICAL ACCESS CHAMBER DETAIL FOR DEPTHS > 3 - 5m - FLEXIBLE MATERIAL DETAIL

1:25



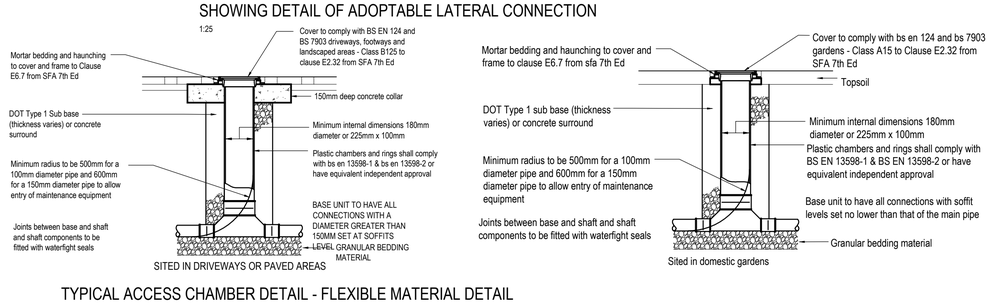
PERMITTED LOCATION OF SEWERS AND LATERAL DRAINS BETWEEN BUILDINGS

1:25



PERMITTED LOCATION OF SEWERS AND LATERAL DRAINS IN PROXIMITY TO BUILDINGS

1:25



TYPICAL ACCESS CHAMBER DETAIL - FLEXIBLE MATERIAL DETAIL (FLEXIBLE MATERIAL - MAXIMUM DEPTH FROM COVER TO SOFIT 3M)

1:25

CDM: Significant Hazards

Health and Safety hazards are identified by the designer as abnormal in pursuance of the current Construction Design and Management regulations. It is assumed that all works will be carried out by competent & adequately resourced contractor(s) working to safe systems of work.

General Notes

1. DO NOT SCALE FROM THIS DRAWING FOR CONSTRUCTION. Scaling from this drawing or obtaining dimensions electronically may not provide accurate information and should be avoided, therefore work only from figured dimensions and contact JRC Consulting Engineers.
2. This drawing is to be read in conjunction with all other relevant Architect's, Engineers & Specialist drawings, details, Specification and the relevant Health and Safety Plan (as appropriate to the project). All discrepancies to be reported to the Engineer immediately for verification.

Drainage Notes - DCG

1. Drawings to be read in conjuction with all design drawings and building regulations
2. All levels are to Ordnance Survey datum levels.
3. All materials used in connection with this design must:
   - Not be detrimental to health & safety or adversely affect durability of the construction.
   - Where applicable, be compliant to current British/European Standards, Codes of Practice and good building practice.
4. The planning, design and construction of sewers shall be in accordance with Design and Construction Guidance (DCG) for foul and surface water sewers offered for adoption under the Code for adoption agreements for water and sewerage companies in England.
5. The minimum size of sewer where guide bars, safety chains, or other safety devices are required in manholes shall be 375mm diameter.
6. All type A & B manholes should have a concrete surround. Concrete rings shall be sealed using 'lokstrip' and lifting eyes pointed with resin modified mortar. PPIC'S should be installed in accordance with The DCG.
7. Compliance with health & safety matters on any trench/manhole is obligatory and a permit to enter a confined space is required when connecting site drainage to the existing public sewerage system. A permit to enter a confined space will be obtained from the local water company prior to the works commencing on any public sewerage system.
8. Where the proposed site drainage connects to the public sewerage system either by new junction, new manhole or at an existing manhole, it will require the submission of an application for sewer connection form to the local water company prior to works commencing.
9. MH covers and frames shall be ductile iron with a minimum square opening of 600x600mm. Covers shall be double triangle for 600mm square openings and be provided with loose bolted connections. Frame depth shall be 150mm. Covers to PPIC'S shall be in accordance with the DCG.
10. The use of ladders or steps in manholes, wet wells and valve chambers shall comply with the following: steel plastic encapsulated MH single steps shall not be used in MH'S of a greater depth than 1.0m. Steel plastic encapsulated double steps may be provided in MH'S up to 3.0m deep. Ladders shall be provided in accordance with BS 4211 in MH'S between 3.0m & 6.0m deep. MH'S greater than 6.0m deep shall be specially designed and have intermediate landings. Access holes in intermediate landings shall be provided with galvanised mild steel gratings to prevent persons falling through. The design of deep manholes shall permit the use of a winch or lifting gear mounted at ground level in case of emergencies.
11. Only low carbon steel or stainless-steel ladders for vertical fixing to manholes will be acceptable.
12. Proposed adoptable sewers are only permitted to have other sewer/gully connections and other services laid at an angle of between 45 degrees and 90 degrees across the line with a vertical clearance more than 300mm.
13. All ironwork to be kite marked by BSI or certified by equal inspection authority.
14. Red coloured plastic marker tape at least 150mm wide shall be laid at a minimum of 200mm above the soffit of the pipe. The tape shall be printed with the words "gravity sewer" in bold capital letters throughout its length and at intervals not exceeding 700mm and shall incorporate a corrosion resistant tracing system for non-metallic pipes.
15. Minimum backdrop height shall be 1m.
16. On new drainage schemes, the first manhole upstream from the connection to the existing foul water sewer shall be fitted with a suitable screen, which will remain in place until the new sewer becomes live. For type 3 manholes, outlet to be bunged with suitable stopper and chain which can be removed on completion of work.
17. Adopted pipework bed/surround:

Vehicular access:	<1200 cover	Class Z concrete
	>1200 cover	Class S granular
Non-vehicular access:	<900 Cover	Class Z concrete
	>900 Cover	Class S granular

REV.	DATE	DETAILS	BY	CKD.
C1	30.09.25	Issued For Construction	JDC	DWJP

JRC CONSULTING

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DRAWING STATUS: FOR CONSTRUCTION (SUBJECT TO TECHNICAL APPROVAL)

PROJECT: ELM GROVE TROWBRIDGE

CLIENT: REDROW

DRAWING TITLE: PRIVATE DRAINAGE CONSTRUCTION DETAILS SHEET 1

SCALE @ A1	SIZE	DATE
AS SHOWN	A1	SEP 25

PROJECT NUMBER	DRAWING NUMBER	REVISION
1960	2571	C1

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