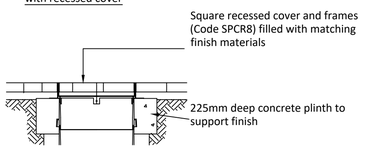
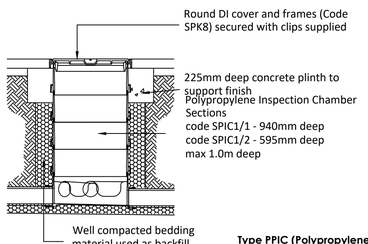
STUDIO 11 ARCHITECTURE

Sited in Driveways / Hard Landscaped areas
with recessed cover

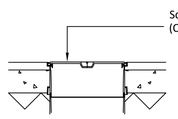


Sited in Driveways / Hard Landscaped areas
with standard round cover

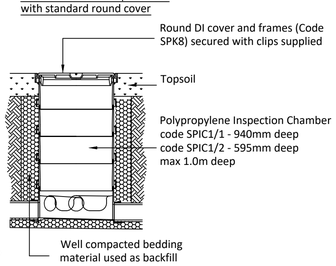


Type PPIC (Polypropylene) Manhole
Typical Sections
(Scale 1:20)

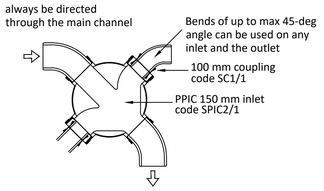
Sited in concrete floor slab

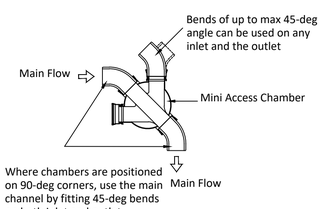


Sited in Soft Landscaped areas
with standard round cover



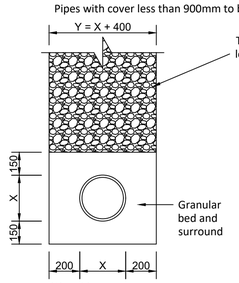
Heaviest flow should
always be directed
through the main channel





Where chambers are positioned
on 90-deg corners, use the main
channel by fitting 45-deg bends
on both inlet and outlet

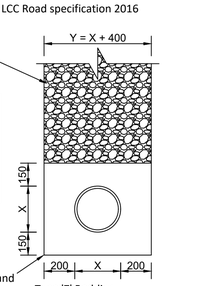
Pipes with cover less than 900mm to be in accordance with clause 5.15.8 of LCC Road specification 2016



Type 'S' Bedding
(Scale 1:20)

Note:
Applicable where pipework has more
than 900mm cover under trafficked
areas or more than 600mm under
non-trafficked areas

Trench Widths:	
Pipe Dia. (mm)	Min. Trench Width (mm)
100	550
150	600
225	700

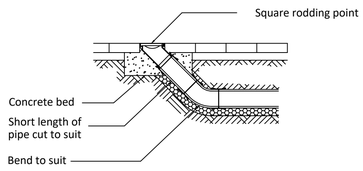


GEN1 min. 150mm concrete bed and
surround (designed to BRE Special
Digest 1 Concrete in Aggressive
Ground)

Type 'Z' Bedding
(Scale 1:20)

Note:
Applicable where pipework has less
than 900mm cover under trafficked
areas or less than 600mm under
non-trafficked areas

Pipe bedding detail underneath private land
(Scale 1:20)



Rodding Eye Detail
(Scale 1:20)

Do not scale directly from this drawing. All discrepancies are to be brought to the attention of the below office.

The copyright to this drawing is owned by studio 11 architecture.

The General Contractor is to check all dimensions on site and report discrepancies to the designer.

The details and information shown hereon relating to existing underground drains, main services, cables, etc. and existing structural details, are as obtained by normal survey observation method. Although all reasonable effort has been made, no guarantee can be made or given for the completeness or accuracy of this information.

STANDARD DRAINAGE NOTES:

1. Adoptable pipes with cover less than 1200mm to be Ductile Iron. Adoptable Pipes with cover more than 1200mm to be Vitrified Clay.
2. All pipe materials below adoptable Highways to be Vitrified Clay or Ductile iron or concrete.
3. All pipe materials for private drainage outside of adopted Highways to be PVC.
4. All gravity pipe runs to be tested to a standing head of 1500mm head of water above the invert at the head of the pipe run (but not exceeding 4000mm at the lower end)
5. For details of bed and surround requirements refer to long-sections and standard details. In all other situations provide 150mm of 10mm single-sized rounded gravel bedding and surround.
6. Except where specifically shown otherwise, pipes to be a minimum of 1200mm below roads/driveways and 900mm below gardens/fields.
7. Ventilating pipes to be provided at the head of each drain and to any branch longer than 6m where a single appliance is connected, or 12m where a group of appliances is connected.
8. Step-irons shall not be fitted in any chambers unless specified otherwise.
9. Manhole/Gully covers shall be regulated to suit finished levels and crossfalls
10. All proprietary items to be installed in strict compliance with manufacturers instructions and recommendations
11. Drains passing beneath buildings to have minimum 100mm granular fill or flexible filling around pipe. Where the pipe crown is within 300mm of the underside of the slab, pipe shall be encased in concrete integral with the slab.
12. Drains passing through walls below ground level to have minimum 50mm clearance all round and opening in walls to be masked all round with rigid sheet material to prevent ingress of fill or vermin. Openings in walls for pipes shall have concrete lintels to support wall construction above

The specification in all respects shall be in accordance with the current Development Road and Sustainable Drainage Specification and Construction publicatin in force in the country at the time of construction

The minimum longitudinal fall for highways without channel blocks shall be 1 in 150, and with channel blocks 1 in 250

General deterioration of the existing highway/footway/verges created through construction of the new Section 38 Develpment will be reinstated to the Development Road and Sustainable Drainage Specification and Construction at the developers' own cost at the agreement of the inspecting Highway and Flood Authority Officer

No private surface water shall discharge onto the adoptable highway

No private structral features shall overhang the adoptable highway

No private retaining walls exceeding 1.37 metres shall be within 3.66 metres of the highway boundary

REVISION	DATE	DRAWN	DESCRIPTION
C	29.05.2019	ZEK	Storm water drainage strategy, drainage details, manhole schedule, revised plan, pond size
B	09.04.2019	ZEK	Highways initial comments (Footpath, S278, S38, MH cover levels, Kerb details, Filter drain detail, construction details, Chart 1, Colours, added easements, beddings Vehicle crossings, contours Exceedence)
A	07.03.2019	ZEK	General amendments.

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CLIENT Seagate Homes Ltd

PROJECT Residential development off Station Road, Surfleet

DRAWING Drainage Details-Private

DRAWN	PROJECT DESIGNER	PROJECT DIRECTOR
ZEK	TBP	KB

DATE	SCALE	PAPER SIZE
01.02.2019	VAR	A1

DRAWING NUMBER 428.RS.822

Working in partnership with **Ralph Charman Associates** & **Eleven Consultants**

CIVIL ENGINEERING