

Storm Water Manhole Schedule

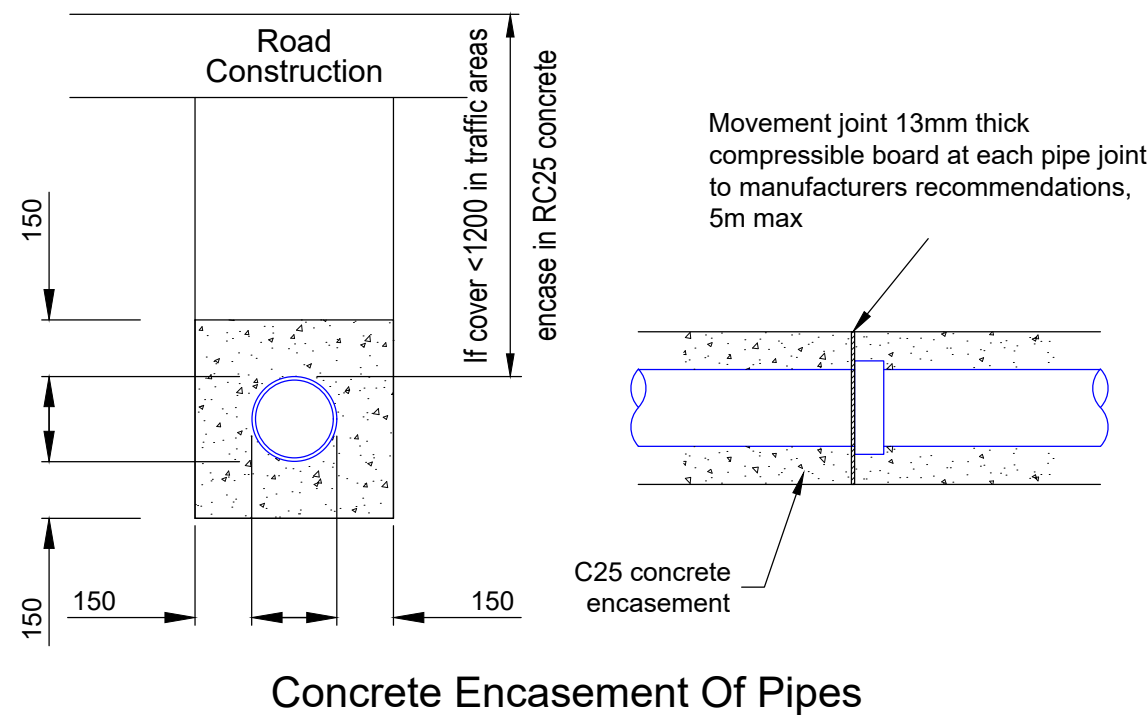
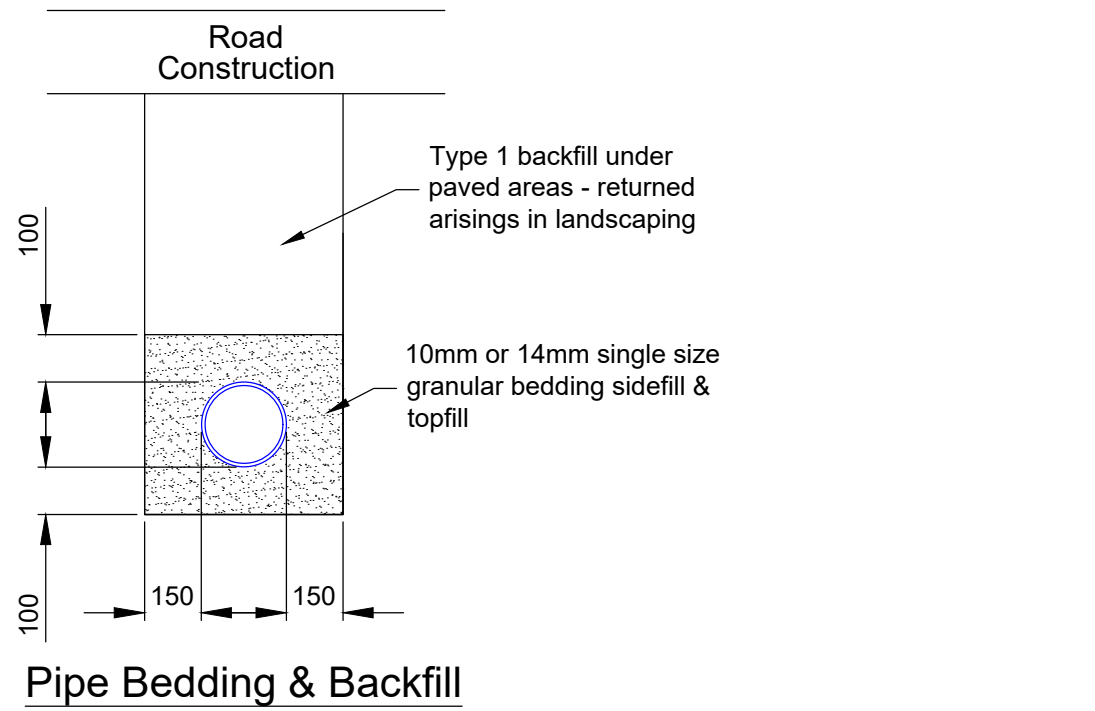
Manhole Ref	Location	Cover Level	Invert Level	Depth To Invert	Chamber Type	Chamber Diameter	Cover Grade	Notes
S1	Unit 1	73.15	72.50	0.65m	PPIC	450mm	B125	
S2	Unit 1	73.20	72.34	0.86m	PPIC	450mm	B125	Silt Trap
S3	Unit 2	73.10	72.45	0.65m	PPIC	450mm	B125	
S4	Unit 2	73.15	72.25	0.90m	PPIC	450mm	B125	Silt Trap
S5	Unit 3	73.41	72.80	0.61m	PPIC	450mm	B125	Silt Trap
S6	Unit 3	73.20	72.60	0.60m	PPIC	450mm	B125	
S7	Unit 3	73.25	72.37	0.88m	PPIC	450mm	B125	Silt Trap
S8	Unit 4	73.64	73.04	0.60m	PPIC	450mm	B125	
S9	Unit 4	73.80	72.84	0.96m	PPIC	450mm	B125	Silt Trap
S10	Unit 4	73.50	72.90	0.60m	PPIC	450mm	B125	Silt Trap
S11	Unit 8	75.10	73.79	1.307m	Type D	1200mm	A15	
S12	Unit 8	74.90	73.66	1.24m	Type D	1200mm	B125	
S13	Unit 8	75.05	73.56	1.49m	Type D	1200mm	B125	
S14	Unit 7	74.60	73.42	1.18m	PPIC	450mm	B125	
S15	Unit 5	74.25	73.34	0.91m	PPIC	450mm	B125	
S16	Unit 5	74.15	73.23	0.91m	PPIC	450mm	B125	Silt Trap
S17	Unit 9	74.60	74.00	0.60m	PPIC	450mm	B125	Silt Trap
S18	Unit 9	74.50	73.90	0.60m	PPIC	450mm	B125	
S19	Unit 9	74.55	73.71	0.84m	PPIC	450mm	B125	Silt Trap
S20	Unit 10	74.75	74.15	0.60m	PPIC	450mm	B125	Silt Trap
S21	Unit 10	74.80	74.20	0.60m	PPIC	450mm	B125	
S22	Unit 10	74.80	74.05	0.75m	PPIC	450mm	B125	Silt Trap
S23	Unit 11	74.46	73.86	0.60m	PPIC	450mm	B125	Silt Trap
S24	Unit 11	74.20	73.60	0.60m	PPIC	450mm	B125	Silt Trap
S25	Unit 12	73.55	72.95	0.60m	PPIC	450mm	B125	Silt Trap
S26	Unit 12	74.30	73.70	0.60m	PPIC	450mm	B125	Silt Trap
S27	Unit 13	73.40	72.66	0.74m	PPIC	450mm	B125	
S28	Unit 13	73.40	72.46	0.94m	PPIC	450mm	B125	
S29	Unit 13	73.40	73.27	1.13m	PPIC	450mm	B125	Silt Trap
S30	Unit 15	73.30	72.70	0.60m	PPIC	450mm	B125	Silt Trap

Soakaway Schedule

Soakaway Ref	Location	Ground Level	Top Of Crate Level	Bottom Of Crate Level	Crate Plan Size	Crate Depth	Polypipe Geocellular Ref
SA1	Unit 3	73.20	72.60	71.80	3m x 1.5m	0.8m	Polystorm R
SA2	Unit 4	73.70	73.10	72.30	3m x 1.5m	0.8m	Polystorm R
SA3	Unit 9	74.55	73.95	73.15	3m x 2.0m	0.8m	Polystorm R
SA4	Unit 10	74.80	74.20	73.40	4m x 2.0m	0.8m	Polystorm R
SA5	Unit 11	74.00	73.40	72.60	3m x 1.5m	0.8m	Polystorm R
SA6	Unit 12	73.90	73.30	72.50	3m x 2.0m	0.8m	Polystorm R
SA7	Unit 13	73.80	72.70	71.90	5m x 2.0m	0.8m	Polystorm R

Rainwater Diffuser Schedule

Diffuser Ref	Location	Ground Level	Diffuser Invert Level	Cover To Diffuser	Diffuser Plan Size	Polypipe Permavoid Diffuser Specification
DIFF1	Unit 1	73.14	72.30	0.84m	1.062m x 1.416m	2 No. 1062x708x150
DIFF2	Unit 2	73.12	72.20	0.92m	1.062m x 2.124m	3 No. 1062x708x150
DIFF3	Unit 3	74.05	72.80	1.25m	1.062m x 2.124m	3 No. 1062x708x150
DIFF4	Unit 4	73.90	72.84	1.06m	1.062m x 2.124m	3 No. 1062x708x150
DIFF5	Units 5-8	73.85	73.15	0.70m	1.062m x 2.832m	4 No. 1062x768x150
DIFF6	Units 5-8	74.00	73.15	0.85m	1.062m x 2.832m	4 No. 1062x708x150
DIFF7	Unit 9	74.48	73.80	0.68m	1.062m x 2.124m	2 No. 1062x708x150
DIFF8	Units 10	74.68	74.00	0.68m	1.062m x 2.124m	2 No. 1062x708x150
DIFF9	Units 11	74.20	73.60	0.60m	1.062m x 2.124m	2 No. 1062x708x150
DIFF10	Unit 12	73.95	72.95	1.00m	1.062m x 2.124m	2 No. 1062x708x150
DIFF11	Unit 15	73.25	72.65	0.60m	1.062m x 2.124m	2 No. 1062x708x150



Drainage Notes

- Drainage to be constructed in accordance with 'Design and Construction Guidance for Foul & Surface Water Sewers Offered For Adoption' Approved Version 2.1.
- Pipes**
 - To be Clay or PVC-U to BS EN 1401 with flexible joints from an approved manufacturer, laid to falls as shown in accordance with Manus instructions with invert at half depth above main channel, or soffit/soffit. All to comply with the references defined in clause B7 of the Design and Construction Guidance V2.1.
 - Surround pipes in RC25 concrete where cover is less than:
 - 1200mm in trafficked areas,
 - 900mm in landscape areas.
- Joints**

Joints are to be made exactly as Manus recommendations. To maintain a degree of flexibility on pipes with concrete surrounds insert 13mm fibreboard collars at joints at 5m c/c.
- Bedding**

Unless shown otherwise lay pipes to Class S bedding.
- Backfill**

Under soft areas backfill with excavated material from trench, laid and compacted in max 300mm layers. Hand compact lowest 600mm.

Under built-up areas backfill above specified surround with DOT Type 1.

Under floors backfill above specified surround with lean mix concrete.

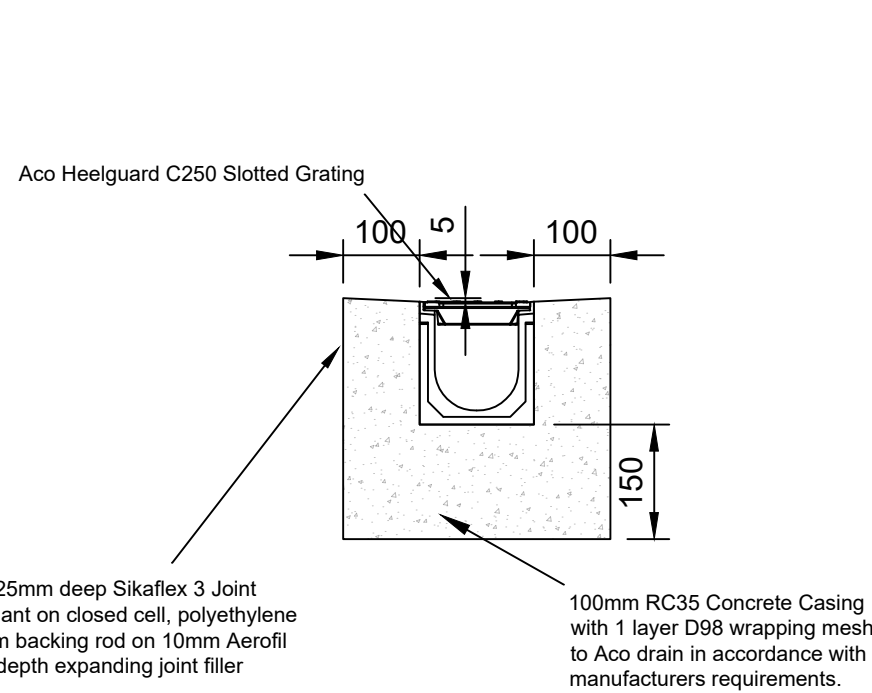
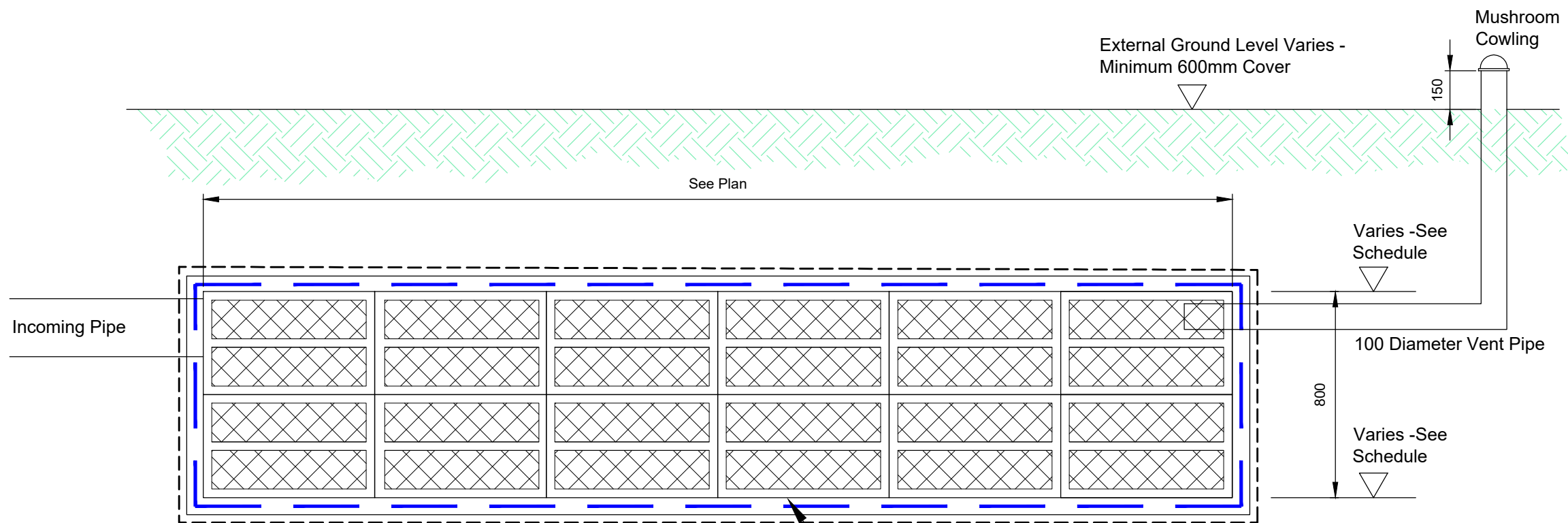
Over concrete surround, do not backfill for 24hrs or traffic for 72hrs.
- Trench widths**

To be as narrow as practicable (eg. Pipe O.D. + 300mm), see Reg H1.
- Access chambers**

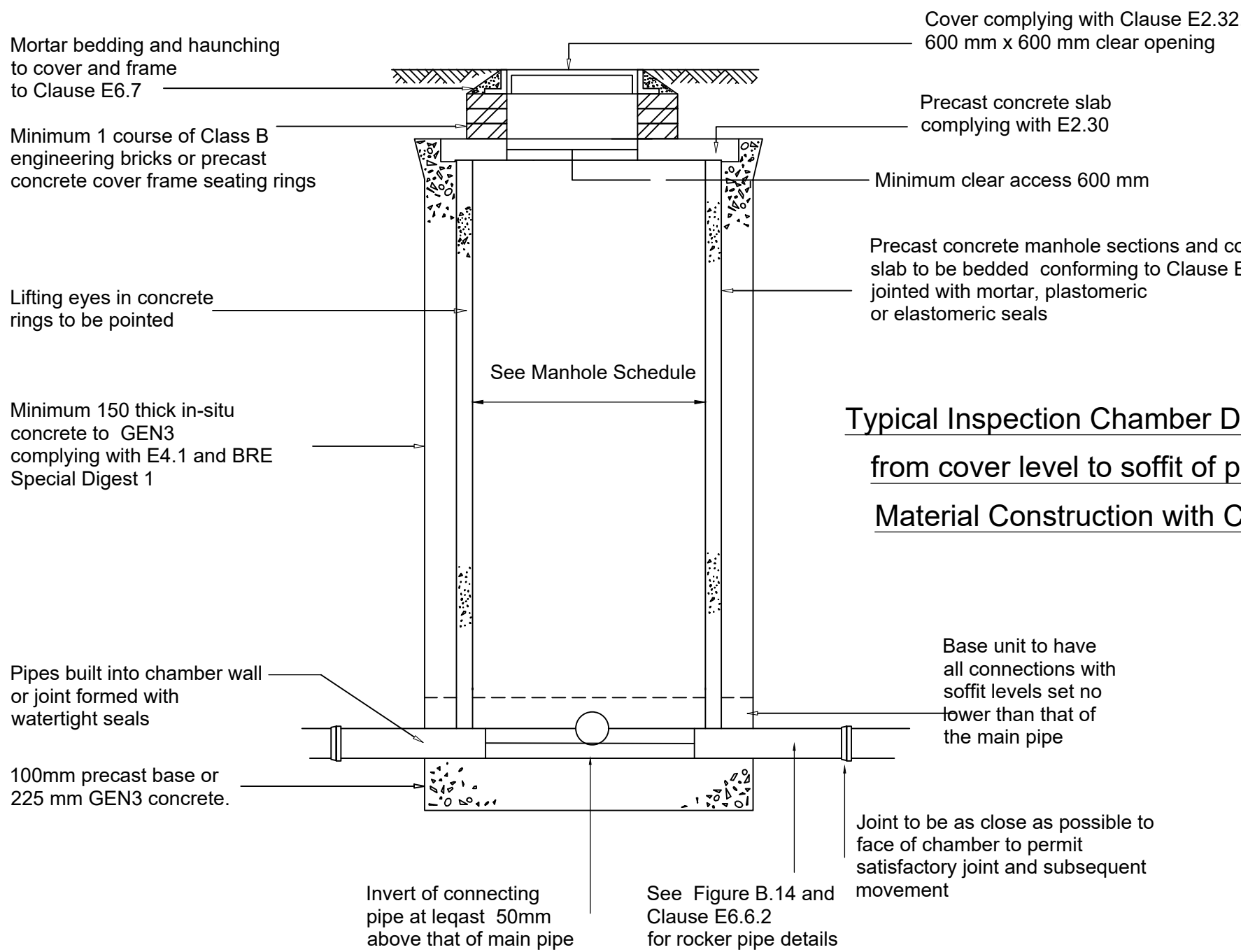
To be as manhole schedule and details shown hereon.
- Manhole covers**

To be Grade D400 (heavy duty) in trafficked areas,
To be Grade B125 (medium duty) in soft areas
- Inlet points**

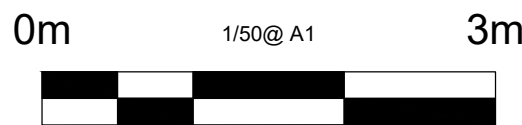
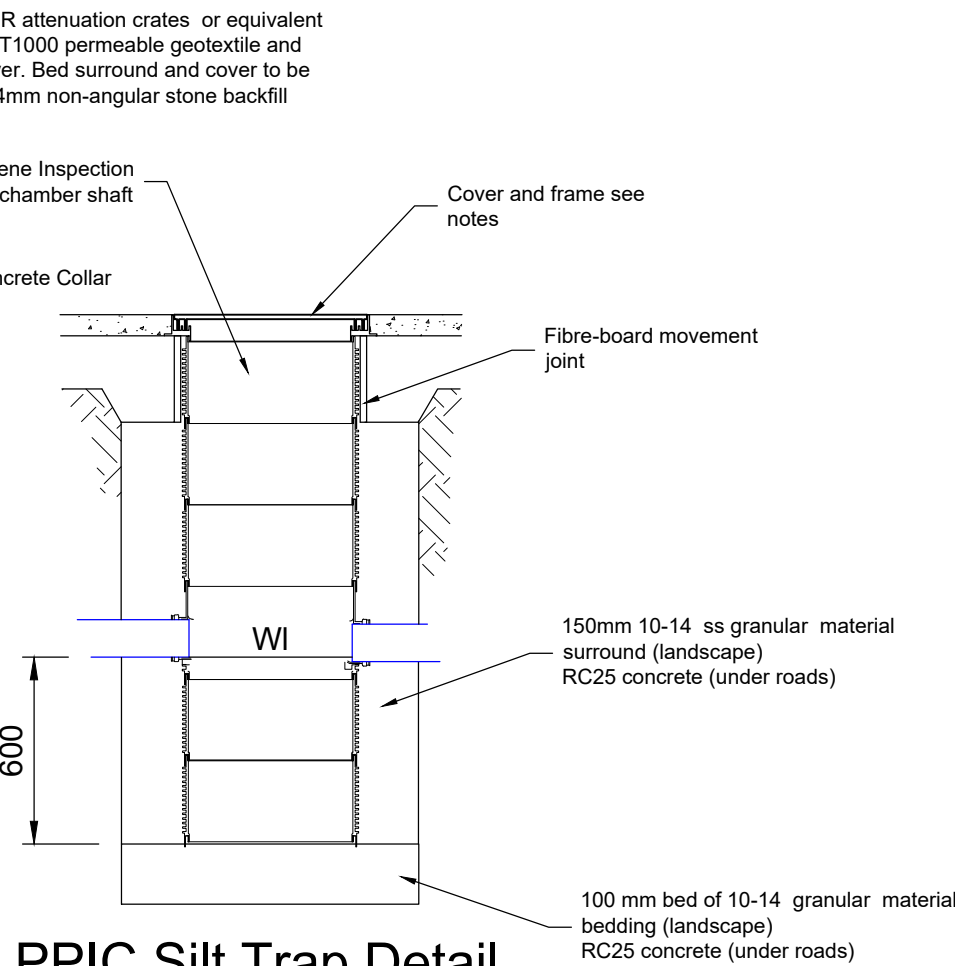
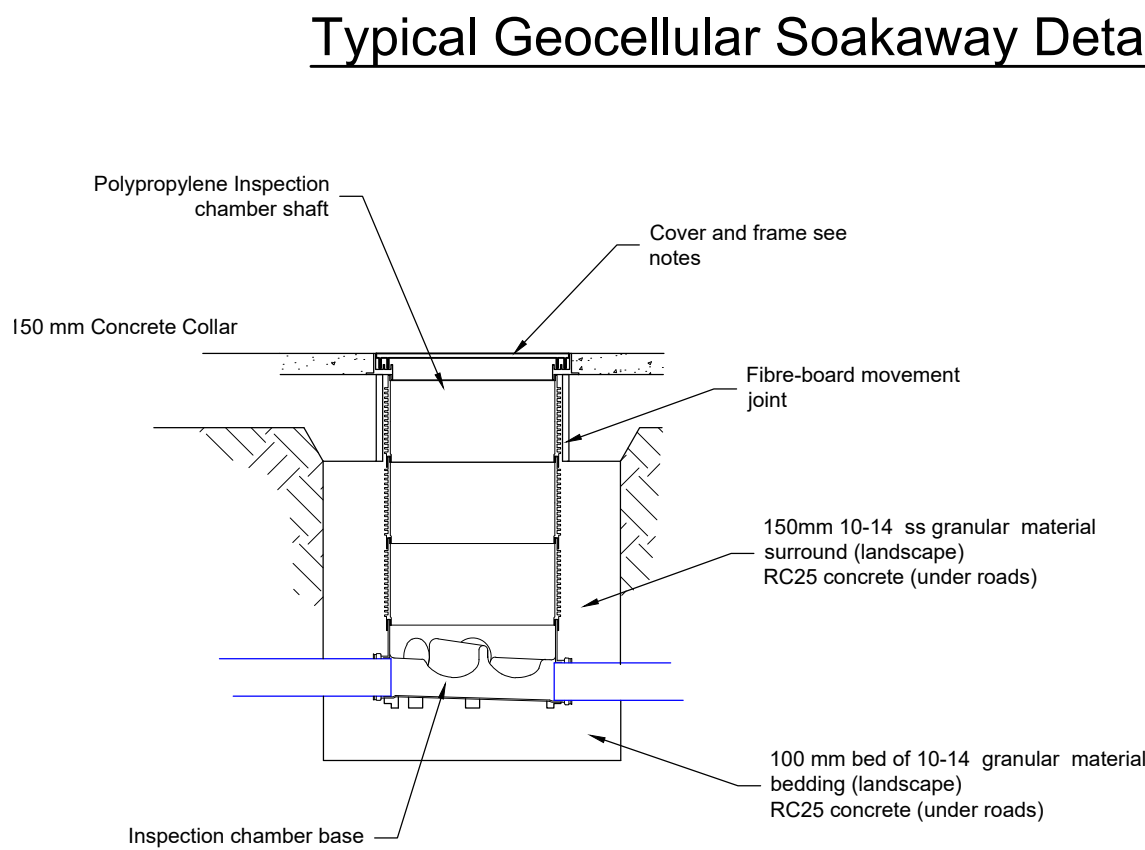
All discharge stacks and gullies to have rodding access points capable of clearing the complete branch.
Gullies to have 85mm water seal.



Aco M100D Channel Detail



Typical Inspection Chamber Detail - Type D Depth from cover level to soffit of pipe up to 3m Rigid Material Construction with Concrete Surround



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Notes unless specifically noted on the drawing

- All Steelwork to be blast cleaned to SA 2.5 and primed 75micron DFT high build zinc phosphate. Steelwork to be designed fabricated erected in accordance with NS5 and BS 5950.
- Steelwork below ground shall be encased in 100mm C35 concrete with D49 mesh in centre of cover. Grouting shall be 25mm nom and comprise 3:1 Cement:sand with expander such as combox 100.
- Concrete quality for Reinforced Concrete shall be RC35 to BS5328 pt 2.
- Concrete quality for Foundations in Clay FND2 to BS5328 pt 2.

Revisions

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project	drawn	date	scale
Higheover Farm, Hitchin	MFJT	11/25	NTS
drawing	project no.	drawing no.	revision
Drainage Details	7219	02	