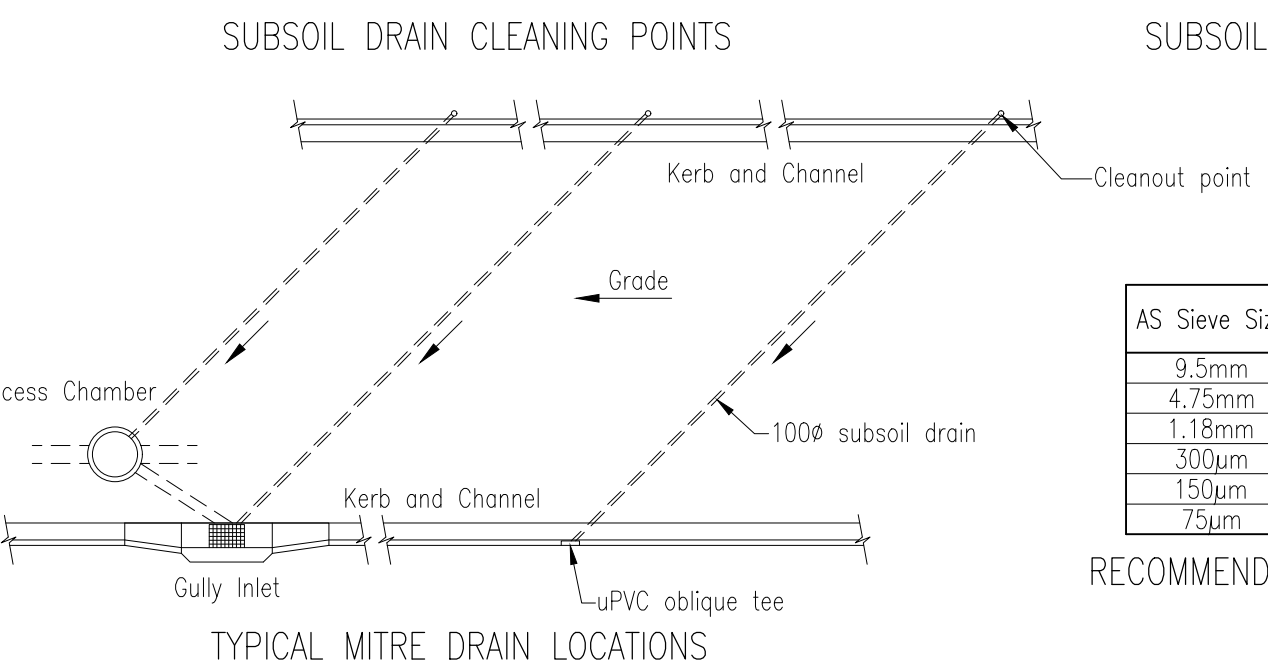
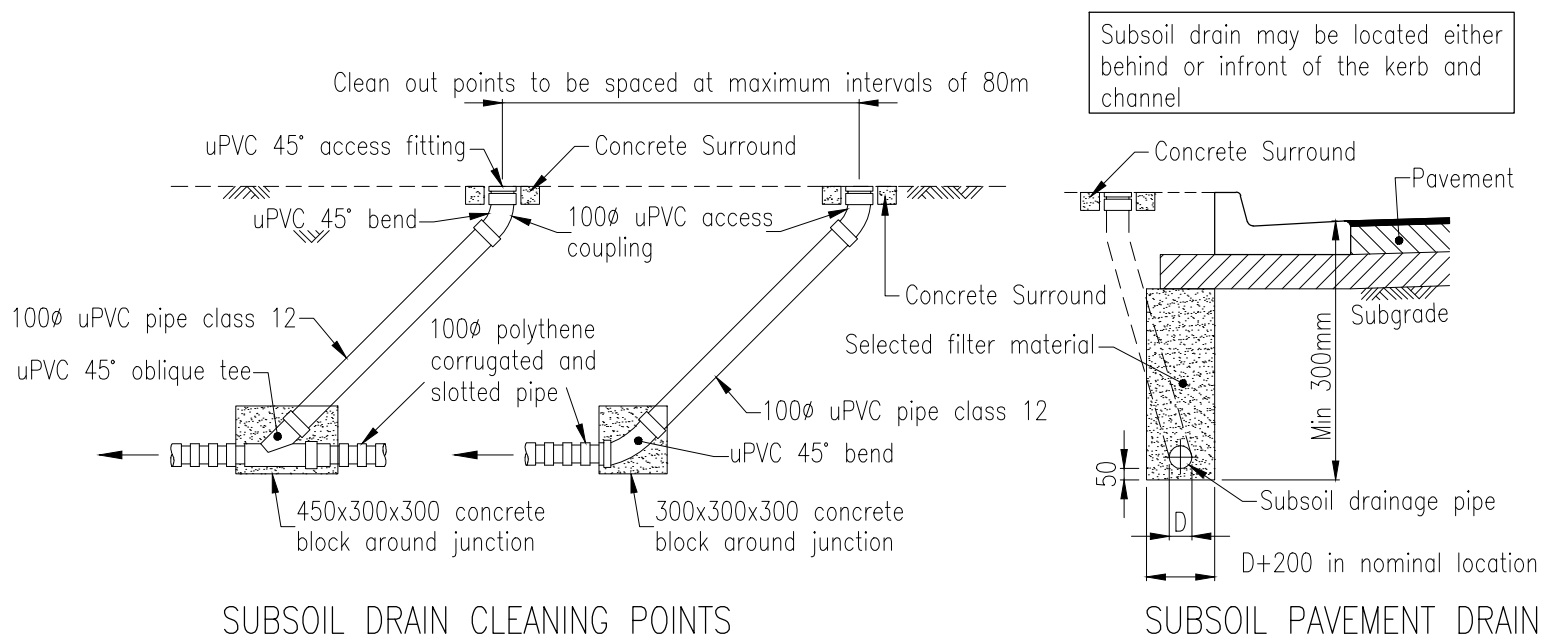


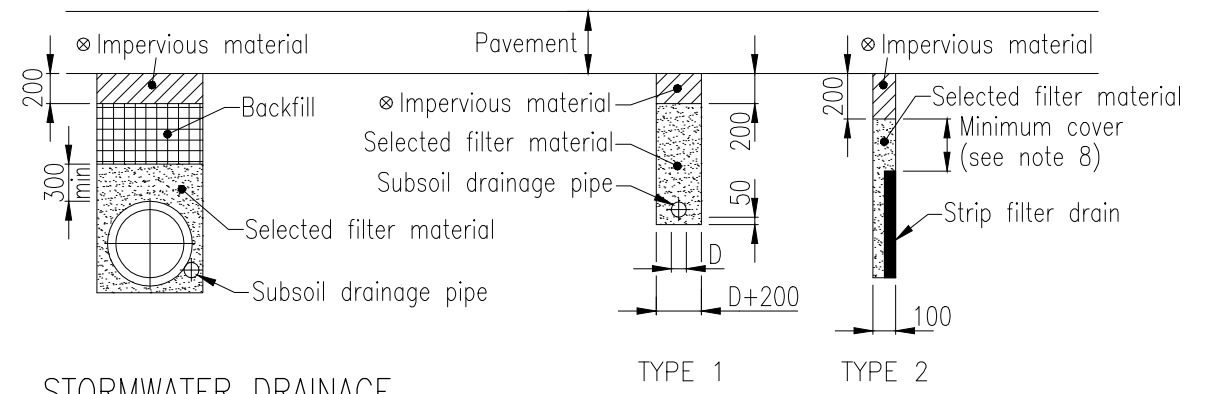
**LEGEND:**  
 ⊗ Refer note 9

- NOTES:**
1. Minimum 5.0m length of subsoil drainage pipe to be located upstream of all manholes to drain trench.
  2. All Subsoil pipe drains to be polyethylene corrugated slotted pipe to AS 2439.1.
  3. Subsoil drains to outlet at invert level of inlet pipe, unless noted otherwise.
  4. Minimum grade of Type 1 subsoil drain to be 0.5%. Desirable minimum grade of Type 2 Subsoil drain 0.5%. Absolute minimum grade 0.1% subject to council approval.
  5. Filter materials not complying with the specified grading requirements may be used if approved by the Superintendent. A geofabric may be used to line trenches where approved by the Superintendent.
  6. Concrete anchors N32 in accordance with AS1379 and AS 3600.
  7. At an oblique tee on subsoil drain cleaning points, the contractor may install Vinidex vertical fittings or similar if approved by the Superintendent.
  8. Minimum cover over subsoil drain for various compactors unless approved otherwise: Hand held units – 100, Units < 15 tonnes – 200, Units > 15 tonnes – 300
  9. Subsoil drain dia.(D)=100 nom. unless specified otherwise.
  10. Impervious material to be provided where subsoil drainage is not under pavement. When impervious material is omitted the backfill/selected filter material shall extend to underside of pavement.
  11. All dimensions in millimetres.



**RECOMMENDED FILTER MATERIAL GRADING**

AS Sieve Size	% Passing by mass
9.5mm	100
4.75mm	90-100
1.18mm	45-80
300µm	10-30
150µm	0-10
75µm	0-1



STORMWATER DRAINAGE TRENCHES WITH SUBSOIL DRAINAGE

STANDARD SUBSOIL DRAIN

**APPLICABILITY TABLE**

Council	BSC	CHRC	GRC	IRC	LSC	MRC	RRC
Applicable	Yes	Yes	Yes	Yes	Yes	Yes	Yes

**Capricorn Municipal Development Guidelines**

Incorporating:  
 Banana Shire Council (BSC) Livingstone Shire Council (LSC)  
 Central Highlands Regional Council (CHRC) Maranoa Regional Council (MRC)  
 Gladstone Regional Council (GRC) Rockhampton Regional Council (RRC)  
 Isaac Regional Council (IRC)

**SUBSOIL DRAINAGE**

DRAINAGE  
 STANDARD DRAWING  
 CMDG-D-040  
 REV. A B C D E F

**REVISIONS**

REVISIONS	DATE
F IRC ADDED	12/2016
E GRC AND LSC ADDED	09/2014
D MRC ADDED	04/2011
C NOTE 4 AMENDED	01/2011
B CLEAN OUT POINTS SHOWN AT SURFACE WITH CONCRETE SURROUND	07/2010
A POST AMALGAMATION REVIEW	01/2010

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 The authors and sponsoring organisations shall have no liability or responsibility to the user or any other person or entity with respect to any liability, loss or damage caused or alleged to be caused, directly or indirectly, by the adoption and use of these Standard Drawings including, but not limited to, any interruption of service, loss of business or anticipatory profits, of consequential damages resulting from the use of these Standard Drawings. Persons must not rely on these Standard Drawings as the equivalent of, or a substitute for, project-specific design and assessment by an appropriately qualified professional.