



# Infrastructure Design Manual

## Selection Tables

## Bass Coast Shire Council Infrastructure Design Manual Selection Tables

Selection Table 16.7	Differing Coefficients Of Runoff – Do Not include Bass Coast in Table
Selection Table 16.8.2	Minimum Pipe Grades Minimum Grade of Stormwater Pipe to be 1 in 300 and Have a Minimum Velocity of 1.0m/sec
Selection Table 16.10.1	Ribbed Polyethylene or High Density Polyethylene Stormwater Pipes - Do not include BCSC in the selection table. When requested by a contractor, we will consider/ allow the use of ribbed high density polyethylene stormwater pipes in easements but not generally in the road reserve.
Selection Table 16.16	Kerb Adaptors UPVC Kerb Adaptors
Selection Table 17.4	Minimum Slope of Earth Drains Minimum Slope of Earth Drain 1 in 500
Selection Table 18.4.6	Shallow Groundwater Tables Include Bass Coast in Municipalities Affected by Shallow Groundwater Tables
Selection Table 20.3.4	Bioretention Basins and Rain Gardens Permitted Except in Unsuitable Locations for Access, Permanent Subsurface Flow Conditions, Etc.
Selection Table 20.3.5	Vegetated Swales / Grass Swales / Buffer Strips Permitted On Narrow Nature Strips Only As Part Of An Overall Design Strategy Incorporating Concrete Edge Strips, Entrance Culverts and Supporting Treatments.
Selection Table 24.3.9	Clear Zones – Do Not include Bass Coast in Table Notes
Proposed Clause 24.4.8	Street Tree Planting Requirements – Option 1 is appropriate in Bass Coast. <ol style="list-style-type: none"> <li>I. Developers shall be required to supply plant and maintain street trees. Tree size to be specified by Council. Maintenance shall be for 3 years, or until the developer can demonstrate that such plantings have established. Selection of</li> </ol>

***Bass Coast Shire Council nominates the following selections:***

**Selection Table 7.6(a) Drainage “As Constructed” Requirements**

**Selection 7.6(a)** shows those Councils which require drainage “As Constructed” plans to be provided in DSpec Format.

**Selection Table 7.6(a) Drainage “As Constructed” Requirements**

**Councils Requiring “As Constructed” Drainage Information to Be provided in D Spec format**

Ballarat City Council

**Bass Coast Shire Council**

Baw Baw Shire

Campaspe Shire.

Central Goldfields Shire

Colac Otway Shire Council

Glenelg Shire Council

Greater Shepparton City Council.

Macedon Ranges Shire Council

Moorabool Shire Council

Mount Alexander Shire Council

Rural City of Wangaratta.

South Gippsland Shire Council.

Southern Grampians Shire Council

Strathbogie Shire Council.

Surf Coast Shire Council

Warrnambool City Council

Yarriambiack Shire Council

***Bass Coast Selection 7.6(a) Drainage “As Constructed” Requirements Require drainage “As Constructed” plans to be provided in DSpec Format***

### **Selection Table 12.3.1 Access Lanes**

Access Lanes as defined in The Planning Scheme are not considered desirable by the Councils listed in **Selection Table 12.3.1**, and should not be provided within Developments unless specific approval is obtained from the Council's Engineering Department *PRINCIPLE*. Roads of width and function similar to Access Lanes may be approved as roads or common property. However, Council may require specific treatment such as fencing, paving and drainage. It is recommended that negotiation of this issue be addressed as early as possible in the planning process.

### **Selection Table 12.3.1 Access Lanes**

#### **Access Lanes Are Not Considered Desirable In These Councils Unless Specific Approval Obtained**

Ararat Rural City Council  
Ballarat City Council  
Baw Baw Shire  
Benalla Rural City Council  
Campaspe Shire Council  
Central Goldfields Shire  
City of Greater Geelong  
Colac Otway Shire Council  
Gannawarra Shire Council  
Glenelg Shire Council  
Golden Plains Shire Council  
Greater Bendigo City Council.  
Greater Shepparton City Council  
Indigo Shire Council  
Macedon Ranges Shire Council  
Mansfield Shire Council  
Mitchell Shire Council  
Moorabool Shire Council  
Murrindindi Shire Council  
Rural City of Wangaratta  
South Gippsland Shire Council  
Southern Grampians Shire Council  
Strathbogie Shire Council  
Swan Hill Rural City Council  
Towong Shire Council  
Warrnambool City Council  
Wellington Shire Council  
Yarriambiack Shire Council

***Bass Coast Selection Table 12.3.1 Access Lanes Access Lanes Are Desirable in Bass Coast – Do not include Bass Coast in Table***

### **Selection Table 12.3.10 Subsoil Drainage**

Subsoil drainage must be provided below all kerb and channel laid within the boundaries of the Councils listed in **Selection Table 12.3.10** unless the following conditions apply:

- Subgrade is rock or sand.
- No underground drainage is available to connect the subsoil drainage to.
- The geographical location does not require it (need to contact each Council to determine if this applies).

### **Selection Table 12.3.10 Subsoil Drainage**

#### **Subsoil Drainage Required Below Kerb and Channel**

Ballarat City Council

#### **Bass Coast Shire Council**

Baw Baw Shire Council  
Benalla Rural City Council  
Colac Otway Shire Council  
Corangamite Shire Council  
East Gippsland Shire Council  
Glenelg Shire Council  
Golden Plains Shire Council  
Indigo Shire Council  
Macedon Ranges Shire Council  
Mitchell Shire  
Moirra Shire  
Moorabool Shire Council  
Murrindindi Shire Council  
Pyrenees Shire Council  
Rural City of Wangaratta  
South Gippsland Shire Council  
Southern Grampians Shire Council  
Strathbogie Shire Council  
**Subsoil Drainage Required Below Kerb and Channel**  
Swan Hill Rural City Council  
Towong Shire Council  
Warrnambool City Council  
Wellington Shire Council  
Wodonga City Council  
Yarriambiack Shire Council

#### ***Bass Coast Selection Table 12.3.10 Subsoil Drainage Subsoil Drainage Required Below Kerb and Channel***

**Selection Table 12.4.2 (c) For Rural Access**

**Standard A Councils**

Ararat Rural City Council  
Ballarat City Council  
Benalla Rural City Council  
Campaspe Shire  
Central Goldfields Shire  
City of Greater Geelong  
Colac Otway Shire Council  
Corangamite Shire Council  
East Gippsland Shire Council  
Gannawarra Shire Council  
Glenelg Shire Council  
Golden Plains Shire Council  
Greater Bendigo City Council  
Greater Shepparton City Council  
Indigo Shire Council  
Mansfield Shire Council  
Moirra Shire Council  
Moorabool Shire Council  
Mount Alexander Shire Council  
Murrindindi Shire Council  
Rural City of Wangaratta  
South Gippsland Shire Council  
Southern Grampians Shire Council  
Strathbogie Shire Council  
Surf Coast Shire Council  
Swan Hill Rural City Council  
Towong Shire Council  
Yarriambiack Shire Council

**Standard B Councils**

**Bass Coast Shire Council**  
Baw Baw Shire Council  
Macedon Ranges Shire Council  
Mitchell Shire Council  
Warrnambool City Council  
Wellington Shire Council  
Wodonga City Council

***Bass Coast Selection Table 12.4.2 (c) For Rural Access Standard B Councils***

**Selection Table 12.7.8 Council’s Requiring Extension of Central Pavement**

**12.7.8 Minimum Shoulder Thickness**

For unkerbed roads, the base layer should extend at least to the nominated width of the shoulder, and have a minimum thickness of 150mm. The **Councils** listed in **Selection Table 12.7.8** require the central pavement thickness to extend to the full width of the shoulder in the specified circumstances.

**Selection Table 12.7.8 Council’s Requiring Extension of Central Pavement**

Unkerbed Court Bowls Only	All Unkerbed Roads
	Bass Coast Shire

***Bass Coast would require full depth across the shoulder***

### Selection Table 12.10 Dust Suppression

The requirement for dust suppression works will vary from Council to Council due to variation in road making materials used and the annual rainfall expected. Those Councils that do require dust suppression works are listed in Columns 1 and 3 in

### Selection Table 12.10

### Selection Table 12.10 Dust Suppression

<b>Dust Suppression Works Required</b>	<b>Councils –Where Council Funds Dust Suppression Works</b>	<b>Councils – Where Dust Suppression Works are Determined on a Case by Case Basis</b>
Campaspe Shire	Greater Shepparton City Council	Ararat Rural City Council
Macedon Ranges Shire Council		Ballarat City Council
Moirá Shire Council		<b>Bass Coast Shire Council</b> Baw Baw Shire Council Benalla Rural City Council Central Goldfields Shire Council Colac Otway Shire Council Corangamite Shire Council Glenelg Shire Council Golden Plains Shire Council Greater Bendigo City Council Indigo Shire Council Mitchell Shire Council Moorabool Shire Council Murrindindi Shire Council Rural City of Wangaratta Southern Grampians Shire Council Strathbogie Shire Council Swan Hill Rural City Council Towong Shire Council Warrnambool City Council Wellington Shire Council Wodonga City Council Yarriambiack Shire Council

### ***Bass Coast Selection Table 12.10 Dust Suppression - Dust Suppression Works are determined on a Case by Case Basis***



### **Selection Table 16.8.2 Minimum Pipe Grades**

In general the absolute minimum grade of a stormwater pipe is listed in **Selection Table 16.8.2**, however flatter grades may be approved where it is demonstrated the velocities are greater than those listed in the headings of the table.

### **Selection Table 16.8.2 Minimum Pipe Grades**

#### **Minimum Grade of Stormwater Pipe to be 1 in 500 and Have a Minimum Velocity of 0.7m/sec**

Benalla Rural City Council  
Campaspe Shire Council  
Colac Otway Shire Council  
Gannawarra Shire Council  
Greater Shepparton City Council  
Mansfield Shire Council  
Moirra Shire  
Wellington Shire Council  
Yarriambiack Shire Council

#### **Minimum Grade of Stormwater Pipe to be 1 in 300 and Have a Minimum Velocity of 1.0m/sec**

Ararat Rural City Council  
Ballarat City Council  
**Bass Coast Shire Council**  
Baw Baw Shire Council  
Central Goldfields Shire Council  
City of Greater Geelong  
Corangamite Shire Council  
East Gippsland Shire Council  
Glenelg Shire Council  
Golden Plains Shire Council  
Greater Bendigo City Council  
  
Indigo Shire Council  
Macedon Ranges Shire Council  
Mitchell Shire Council  
Moorabool Shire Council  
Murrindindi Shire Council (minimum grade 1 in 200)  
Pyrenees Shire Council  
  
Rural City of Wangaratta  
South Gippsland Shire Council  
Southern Grampians Shire Council  
Strathbogie Shire Council  
Surf Coast Shire Council  
Swan Hill Rural City Council  
Towong Shire Council  
Warrnambool City Council  
Wodonga City Council

### ***Bass Coast Selection Table 16.8.2 Minimum Pipe Grades Minimum Grade of Stormwater Pipe to be 1 in 300 and Have a Minimum Velocity of 1.0m/sec***

*density polyethylene stormwater pipes in easements but not generally in the road reserve.*

**Selection Table 16.16 Kerb Adaptors**

**Galvanised Steel Kerb Adaptors**

Baw Baw Shire Council

Campaspe Shire Council

Colac Otway Shire Council

Glenelg Shire Council

Golden Plains Shire Council

Macedon Ranges Shire Council

Mount Alexander Shire Council

Surf Coast Shire Council

Swan Hill Rural City Council

Mildura Rural City Council

**UPVC Kerb Adaptors**

Ballarat City Council

**Bass Coast Shire Council**

City of Greater Bendigo

Wellington Shire Council

Yarriambiack Shire Council

Mildura Rural City Council

**Bass Coast Selection Table 16.16 Kerb Adaptors**

**UPVC Kerb Adaptors**

Significant areas of municipalities listed in **Selection Table 18.4.6** are subject to shallow ground water tables and as a result it is desirable that all excavations are limited to 0.5 metres above the water table.

### **Selection Table 18.4.6 Shallow Groundwater Tables**

#### **Municipalities Affected by Shallow Groundwater Tables**

##### **Bass Coast Shire Council**

Campaspe Shire Council

East Gippsland Shire Council

Gannawarra Shire Council

Glenelg Shire Council

Greater Shepparton City Council

Warrnambool City Council

Wellington Shire Council

***Bass Coast Selection Table 18.4.6 Shallow Groundwater Tables      Include  
Bass Coast in Municipalities Affected by Shallow Groundwater Tables***

### **Selection Table 20.3.5 Vegetated Swales / Grass Swales / Buffer**

Vegetated Swales / Grass Swales / Buffer Strips are approved for use in open space reserves within a residential one zone, central median strips on roads subject to road reserve width and services unless otherwise stated in **Selection Table 20.3.5**.

### **Selection Table 20.3.5 Vegetated Swales / Grass Swales / Buffer Strips**

**Permitted on narrow nature strips only as part of an overall design strategy incorporating concrete edge strips, entrance culverts and supporting treatments.**

Ararat Rural City Council  
Ballarat City Council  
**Bass Coast Shire Council**  
Baw Baw Shire Council  
Benalla Rural City Council  
Colac Otway Shire Council  
Corangamite Shire Council  
Greater Bendigo City Council  
Macedon Ranges Shire Council  
Pyrenees Shire Council  
Rural City of Wangaratta  
Strathbogie Shire Council  
Towong Shire Council  
Wellington Shire Council  
Wodonga City Council  
Yarriambiack Shire Council

**Not permitted under any circumstances**

City of Greater Bendigo  
Mitchell Shire Council  
Moorabool Shire Council

***Bass Coast Selection Table 20.3.5 Vegetated Swales / Grass Swales / Buffer Strips Permitted On Narrow Nature Strips Only As Part Of An Overall Design Strategy Incorporating Concrete Edge Strips, Entrance Culverts And Supporting Treatments.***

**Note: 31 July 2014**

Following discussion at the last two technical meetings regarding the street tree provisions in the Clause it has been agreed to have a selection table for the provision of Street Trees in new subdivisional works.

Council's requirements regarding how street trees are addressed in your Municipality see Clause 24.4.8 of the proposed document:

**Proposed Clause 24.4.8 Street Tree Planting Requirements**

Street trees shall be planted at one tree per lot. Council can choose from two options

1. Developers shall be required to supply plant and maintain street trees. Tree size to be specified by Council. Maintenance shall be for 3 years, or until the developer can demonstrate that such plantings have established. Selection of species for planting shall be approved by Council.
2. Council may elect to supply and plant trees (in place of the developer) and charge the developer a fee per tree. In such instances Council will assume maintenance and defects responsibility for such plantings.

Where developers are required to undertake street tree planting; such planting can be carried out after the time of practical completion and statement of compliance with the approval of Council

**CI 24.4.8 – Option 1 is appropriate in Bass Coast.**

**Proposed Clause 24.2.1 Landscaping Design Manual/Requirements**

The following Councils have specific Landscape Design Manuals that shall take precedence over these guidelines.

- Ballarat City Council Landscape Design Manual
- City of Wodonga Landscape Guidelines.

**Bass Coast does not have a landscape design manual**