

# Side Entry Grated Pit A140.05



## DESIGN STATEMENT

The side entry grated pit is a standard pit detail in Merri-bek City Council. The open grate is robust in its design and allows a high flow of water into the stormwater mains pipes.

## APPLICABLE LOCATION

The side entry grated pit should be used where underground drainage pipes is located under the kerb and channel. The use for the side entry grated pit should be kept to a minimum as the grate tends to collect rubbish.

## COUNCIL STANDARD DRAWING

SD 122 Side Entry Grated Pit (for type B k&c), SD 127 Side Entry Grated Pit (for type B k&c) - 0.9m inlet, SD 129 Double Side Entry Grated Pit (2m inlet)

## CROSS REFERENCE DOCUMENT

- Merri-bek Standard Specifications: Sections 60.03.07 & 80 & also Section 63: Bluestone Pitcher kerb and Channels & B/stone paving. Vic Roads Standard Specifications: Section 701: Underground Stormwater Drains, Section 702: Subsurface Drainage. Further Reference: Urban Stormwater: Best Practice Environmental management Guidelines; CSIRO Publishing.

## STANDARD SPECIFICATION

**Fixing:** Hinged on lintel side and bolt down.

**Concrete:** Strength 25 MPa, unless stated otherwise.

**Colour:** In street with bluestone k& c, lintel and concrete tray shall be in charcoal colour.

**Pits:** Pits shall be cast monolithically. Cement render shall only be used to repair defects. Pits over 2m in depth shall have F72 reinforcing fabric placed centrally in walls. Step irons shall be fitted to pits greater than 1m in depth (See SD190).

The bluestone channel in the transition sections shall have the same width as the normal section. Size pit to suit outlet pipe (Refer to schedule on detail.)

## SUPPLIER

### Supplier of grates:

- Access Covers P/L
- R&S Grating P/L
- SVC Products P/L
- Terra Firma Industries P/L
- Weldlok Grates P/L
- Gatic P/L or approved similar.

**Supplier of lintels:** SVC Products P/L. [www.svc.net.au](http://www.svc.net.au) or similar.

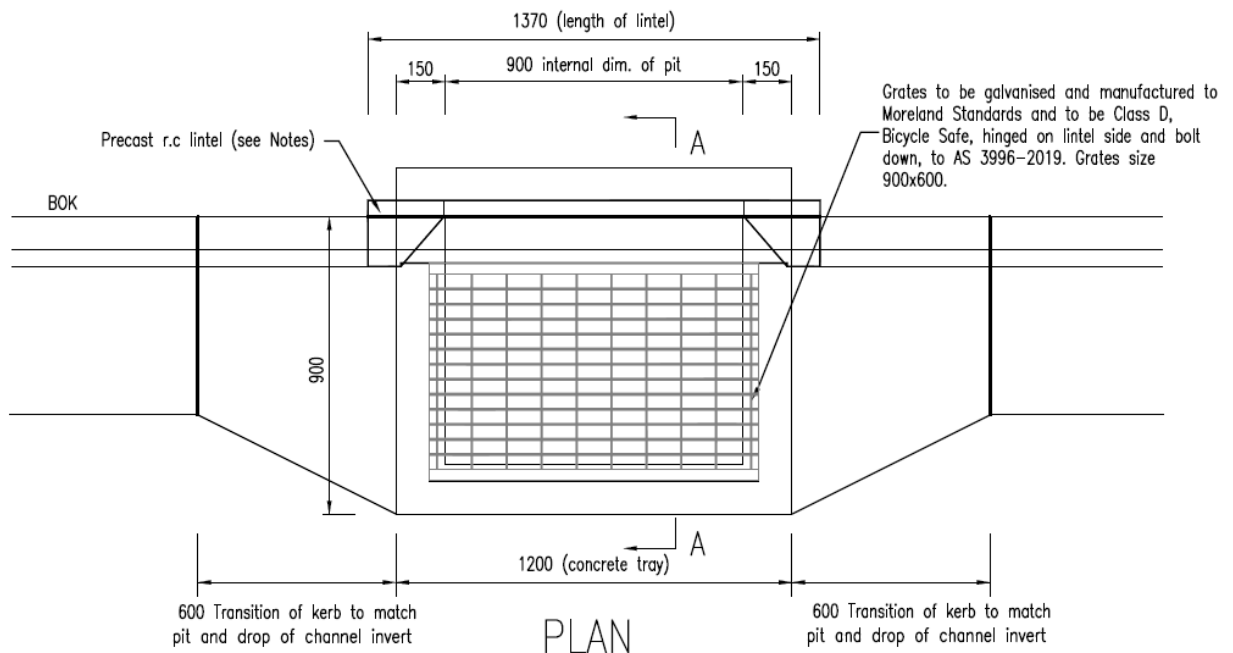
## MAINTENANCE

**Street Cleansing Unit:** Cleaning will be undertaken as per current schedule.

## GENERAL NOTES

1. In streets with bluestone k&c, lintel and concrete tray shall be in charcoal colour. Transition sections shall be bluestone at the same width as the normal section.
2. Lintel shall be SVC's type, code KLBWH1370 or similar.
3. \* This dimension could vary if lintels other than SVC KLBWH1370 are used.
4. Equivalents grate shall be approved by Council before use. The grate and frame shall be galvanised steel with the grate hinged to the frame on lintel side and bolt down.

# A140.05 Side Entry Grated Pit



Pipe $\phi$	W
To 525	750
600	900
675	1050
750	1050
825	1200
900	1200

Grates to be galvanised and manufactured to Moreland Standards and to be Class D, Bicycle Safe, hinged on lintel side and bolt down, to AS 3996-2019. Grates size 900x600.

## NOTES:

- Concrete strength = 25 MPa, unless stated otherwise.
- Pits shall be cast monolithically. Concrete to be thoroughly compacted by vibration during and immediately after placing in formworks. Cement render shall only be used to repair defects.
- Pits over 2m in depth shall have F72 reinforcing fabric placed centrally in walls.
- Step irons shall be fitted to pits greater than 1m in depth (see SD190).
- In street with bluestone k&c, lintel and concrete tray shall be in charcoal colour. Transition sections shall be bluestone at the same width as the normal section.
- Lintel shall be SVC's type, Code KLBWH1370 or similar.
- \* This dimension could vary if lintels other than SVC KLBWH1370 are used.
- Equivalent grates shall be approved by Council before use. The grate and frame shall be galvanised steel with the grate hinged to the frame on lintel side and bolt down.

