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# Grated Pit for Vehicle Crossing A140.10

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GENERAL

## DESIGN STATEMENT

The conversion of the side entry pit into a grated pit for a new vehicle crossing is a standard urban drainage treatment. The modification of an existing Side Entry Pit enables a new vehicle crossing to be constructed over an existing SEP without changing the existing drainage condition. The new grated pit is durable enough for vehicular crossing and also safe for cyclists to cross. The grated pit is designed to match slope of the existing channel, making it safer for pedestrians or bikes.

## APPLICABLE LOCATION

The grated pit modification detail should be used to modify an existing SEP when a new vehicle crossing is constructed over the pit.

## COUNCIL STANDARD DRAWING

SD 123 Conversion of SEP into GP for new vehicle crossing

## CROSS REFERENCE DOCUMENT

- Australian Standards AS 3996-2019
- Merri-bek Standard Specifications: Section 60 & 80.

## STANDARD SPECIFICATION

**Fixing:** Hinged and bolt down

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

For single side entry pits longer than 900mm (eg.1100mm) reduce the pit length to 900mm.

**Tie bars:** to be 12 $\varnothing$  deformed steel bars, 200mm in length at 300mm centres, embedded in existing concrete with an epoxy glue. The concrete joining interface must be roughened before casting new concrete.

**Pits:** over 2m in depth shall have F72 reinforcing fabric placed centrally in wall. Reinstate iron steps where existing, if any.

## 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

## MAINTENANCE

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

## GENERAL NOTES

1. Surplus lintels and pit covers remain the property of the Merri-bek City Council unless directed otherwise.

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