THE CITY OF TEA TREE GULLY

› Technical Specifications

# CIVIL INFRASTRUCTURE

## DESCRIPTION: PITS & DRAINAGE - STORMWATER PITS REINFORCEMENT DETAILS

## CODE: CIV03 29/04/2025

APPLICATIONS

- Regional
- District
- Neighbourhood
- Local
- Main Roads
- Local Roads

## PERFORMANCE CRITERIA

### IMAGE/S

Images are indicative of the style, not a specific brand. Council's procurement policy must be followed when selecting and purchasing items.

| | |
|---|---|
| **MATERIALS** | |
| **FINISHES** | |
| **COLOURS** | |
| **SIZE (INDICATIVE)** | |
| **VARIATIONS** | Precast pits with thinner walls and less steel or fibre reinforced pits may be accepted where the manufacturer can demonstrate that the pits have adequate capacity to support a combination of the following loads:<br>- lateral loads - earth pressure with appropriate surcharge load class<br>- hydrostatic pressure<br>- compaction pressure (25kPa min.) |
| **OPTIONS** | For top of pit details, refer to relevant standard drawings.<br>Subsurface drain holes to be sealed if not used. |
| **INSTALLATION INSTRUCTIONS** | Pit reinforcement shall have 300mm min. laps. Clear cover to be 50mm min. Corner return reinforcement may be fabric or equivalent bars.<br>Concrete strength FC - 32MPa (min.) at 28 days. Slump to be 80mm.<br>All RL fabric main bars should be placed horizontally. |
| **DDA**<br>(Universal design principles) | |
| **MAINTENANCE** | |
| **ENVIRONMENTAL** | |
| **EXPECTED LIFESPAN / END OF LIFE REPLACEMENT** | |
| **FURTHER INFORMATION** | Any concrete form work, reinforcement, pouring and curing shall comply with AS3600 and the associated codes. |
| **OTHER INFORMATION** | |
| **RELEVANT STANDARDS** | |

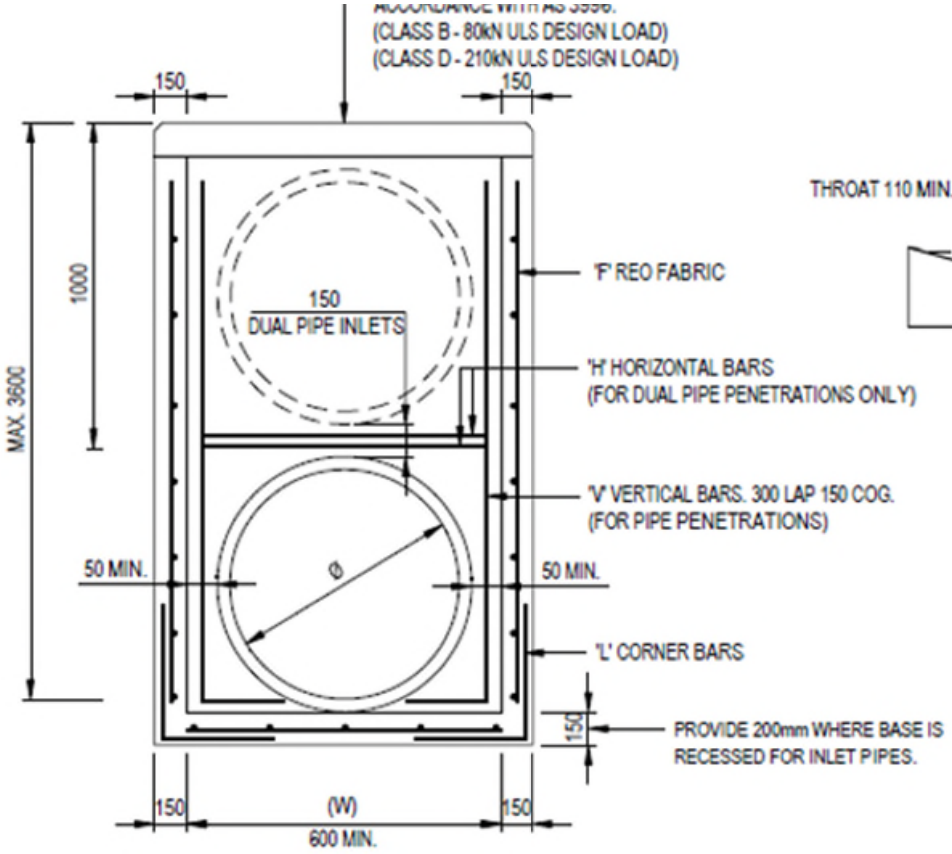
REINFORCEMENT DETAILS

| LOAD CLASS | MAX WIDTH (W) (mm) | 'F' FABRIC | 'H' HORIZONTAL BARS | 'V' VERTICAL BARS | 'L' CORNER BARS |
|---|---|---|---|---|---|
| B | 600 | SL82 (c) | 2N10 | 1N10 | N10 @ 300 (c) |
| B | 900 | SL82 (c) | 2N10 | 1N10 | N10 @ 300 (c) |
| B | 1200 | SL92 (c) | 2N12 | 1N12 | N10 @ 200 (c) |
| B | 1500 | SL92 (50 INTERNAL COVER) | 2N12 | 1N16 | N10 @ 200 (c) (50 INTERNAL COVER) |
| B | 1800 | SL92 (50 INTERNAL COVER) | 2N16 | 1N16 | N12 @ 200 (c) (50 INTERNAL COVER) |
| D | 600 | SL82 (c) | 2N10 | 1N10 | N10 @ 300 (c) |
| D | 900 | SL92 (50 INTERNAL COVER) | 2N10 | 1N10 | N10 @ 200 (c) (50 INTERNAL COVER) |
| D | 1200 | RL818 (50 INTERNAL COVER) | 2N12 | 1N12 | N12 @ 200 (c) (50 INTERNAL COVER) |
| D | 1500 | RL118 (50 INTERNAL COVER) | 2N12 | 1N16 | N12 @ 200 (c) (50 INTERNAL COVER) |
| D | 1800 | RL1218 (50 INTERNAL COVER) | 2N16 | 1N16 | N12 @ 200 (c) (50 INTERNAL COVER) |

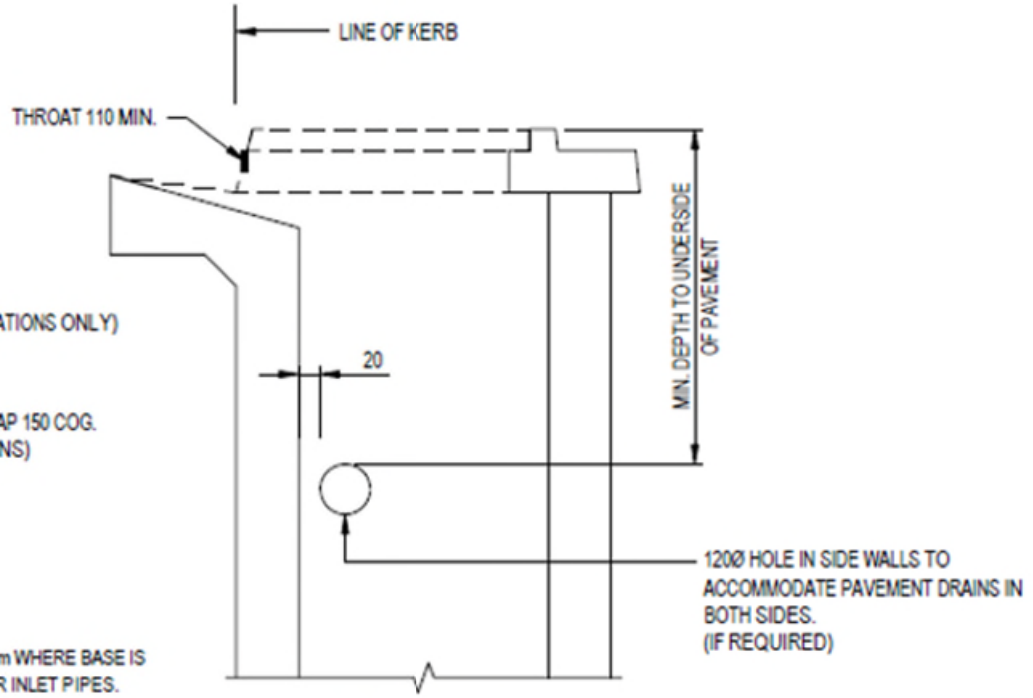
NOTE:

1. PROVIDE REINFORCEMENT AS PER TABLE FOR WALL WITH CORRESPONDING WIDTH (W).
2. IF ADJACENT WALLS HAVE DIFFERENT WIDTHS, ADOPT 'L' CORNER BARS CORRESPONDING TO HIGHER WIDTH.

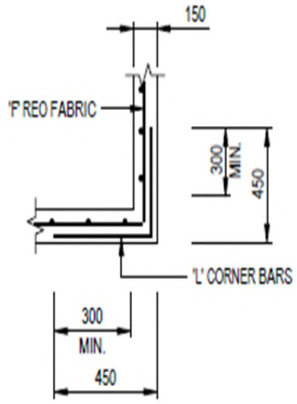
ALL MEASUREMENTS IN MILLIMETRES




TYPICAL PIT DETAIL




PRECAST PIT




150mm CORNER DETAIL