

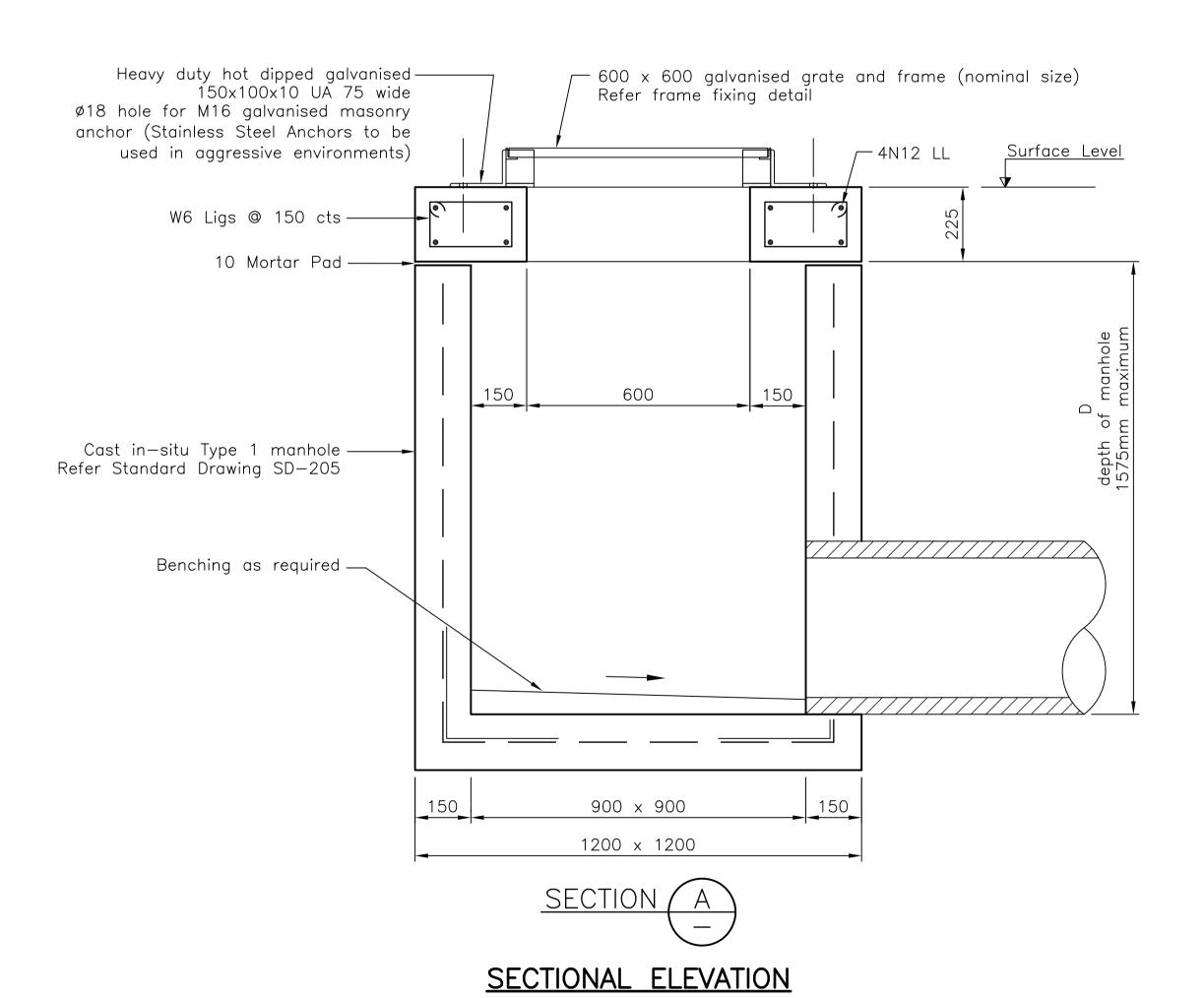
Full Size A1

Not to scale

DRAWN:

Date: 21/07/2009

Manager Approved: Original signed by B. Sue



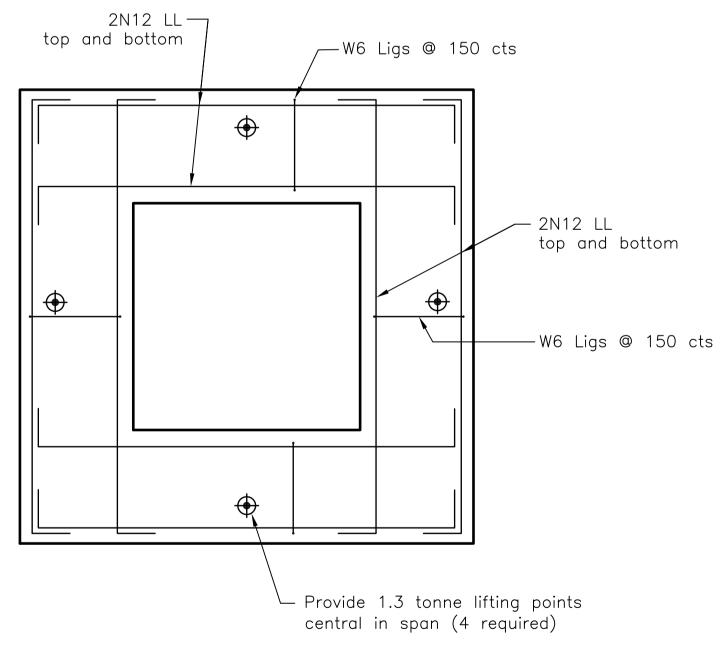
NOTES:

A 06/07/2009 Original Issue

DESCRIPTION

REVISIONS

DATE



PLAN PRE-CASE SLAB TOP

RAISED GRATE FIELD INLET MANHOLE STANDARD DRAWING

DRAINAGE

SD - 215

CHECKED:

Design Engineer Approved: Original signed by R. Coates Date: 21/07/2009

一个

City of Townsville

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5. Cog length = 150mm 6. Wall reinforcing at pipe entries to be cut and/or bent around openings as approved by the Engineer.

GENERAL NOTES

CONCRETE NOTES

2. Concrete for walls and base:

N32 Standard

W7 wheel load

Engineer.

work.

Dynamic factor 0.4

REINFORCEMENT NOTES

1. Fabric - grade 500 to AS 1304. 2. Bars - grade 500 to AS 1302.

4. Minimum cover to reinforcing steel:

N12 - 300mm

N16 - 400mm

50mm Standard

3. Laps in reinforcement unless noted otherwise:

70mm Aggressive Environments

Fabric — overlap 2 transverse wires

1. All dimensions are in millimetres unless noted otherwise.

exposure classifications more severe than B1.

grades of pipes, and grades of kerb and channel.

N50 Aggressive Environments

5. Design loads as per Austroads Bridge Code:

3. Concrete for precast slab top N32 min.

4. Formwork in accordance with AS 3610.

2. Refer Standard Drawing SD-205 for standard manhole details.

4. Where manhole depth is greater than 3500mm and/or internal dimensions are greater than 1500mm, the manhole walls and

slab top shall be independently designed by the Engineer. 5. Where the slab top opening is greater than 600mm x 600mm, the slab top shall be independently designed by the Engineer. 6. Refer to project drawings for location of manhole, design levels,

1. All concrete to be in accordance with AS 1379 and AS 3600.

6. All concrete shall be vibrated as per requirements of Standards

8. Kerb and channel infill and transition sections to be constructed

manhole, top and troughs. Infill and transition sections to be formed as necessary to match faces and edges of completed

7. Mass concrete benching shall be formed as directed by the

after completion of adjacent standard kerb and channel,

3. Exposure Classification B1. This drawing does not apply to

7. All reinforcing steel to be held rigidly together, either by welding or tying, prior to placing concrete.

8. All wire to be hard drawn wire.

9. Starter bars in base slab shall be hot dipped galvanised. 10. Reinforcement in manholes shall not be replaced with fibre

reinforced concrete.

11. Where depth of manhole D is less than or equal to 1500mm and the internal manhole dimensions are less than or equal to 750mm x 750mm, no reinforcement is required in walls and floor slab.

FRAMES AND GRATE NOTES

1. Frame grate and angles to be heavy duty hot dipped galvanised after fabrication.

2. All welds to be continuous fillet welds (cfw).

3. Grate and frame shall be approved proprietary product designed for pedestrian loading.