NOTES

GENERAL
1. INVERT LEVELS AND REFERENCE POINT DATA ARE SPECIFIED IN THE DESIGN DRAWINGS.
2. INLET/OUTLET PIPES MAY JOIN STRUCTURE AT SKEW ANGLES.
3. THIS STRUCTURE IS NOT APPROPRIATE FOR DIRECT CONNECTION TO WATER COUPLING DRAIN UNLESS PROVIDED WITH SILT TRAP OR INCOMING SURFACE DRAINAGE HAS BEEN 'TRAPPED' UPSTREAM.
4. FOR INFORMATION RELATING TO GROUND PREPARATION OF STRUCTURES REFER TO MAIN ROADS TENDER DOCUMENT - PREPARATION No. 495 (DRAINAGE STRUCTURES).

CONCRETE & REINFORCEMENT
5. ALL IN-SITU CONCRETE SHALL BE CLASS H22 IN ACCORDANCE WITH AS5779.
6. ALL IN-SITU CONCRETE CORNERS SHALL HAVE A 20 CHAMFER UNLESS OTHERWISE NOTED.
7. CEMENT MORTAR SHALL CONSIST OF ONE PART PORTLAND CEMENT OR SIMILAR AND THREE PARTS SAND.
8. SLIP REINFORCEMENT SHALL CONFORM WITH HARD DRAWN FABRIC TO AS4671.
9. MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE 50.

LINER
10. THE LINER SHALL BE REINFORCED CONCRETE SPUN TO AS4548.
11. THE MAXIMUM INLET/OUTLET PIPE OUTSIDE DIAMETER MUST BE LESS THAN 60% OF THE LINER INTERNAL DIAMETER. SEE TABLE 2.
12. MINIMUM SPACE OF 200 BETWEEN HOLES IN LINER.
13. MINIMUM OF 40% OF LINER SHALL REMAIN IN ANY HORIZONTAL PLANE.
14. HOLES TO BE PUNCHED/CUT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION.
15. THE LINER SHALL HAVE EQUIVALENT PROPERTIES AND REINFORCEMENT OF CLASS 2 RCP EXCEPT THAT THE REINFORCEMENT SHALL BE CIRCULAR.

STEP IRONS
16. BRN & DRN STRUCTURES SHALL BE FITTED WITH STEP IRONS OR A PREFABRICATED STEEL LADDER. THE LADDER SHALL BE FIXED WITH STAINLESS STEEL MACHINERY ANCHORS IN ACCORDANCE WITH AS5677.
17. ORIENTATE STEP IRONS OR LADDER TO ENABLE EASY ACCESS AND TO FACE ONCOMING TRAFFIC.

BRICKWORK
18. BRICKWORK TO BE REINFORCED EVERY THIRD COURSE WITH SHARRON A.B.C. MASONRY REINFORCEMENT MOD150 OR SIMILAR APPROVED IN ACCORDANCE WITH AS4999.
19. BRICKWORK SHALL BE 230x100x7.5 NOMINAL SIZE, SOUND, HARD, WELL BURNT AND TRUE TO SHAPE AND DIMENSIONS AND SHALL BE OF EXPOSURE DURABILITY CLASS IN ACCORDANCE WITH AS4445.
20. BRICKWORK SHALL BE SOLID AND HAVE A MINIMUM COMpressive STRENGTH OF 25 MPa IN ACCORDANCE WITH AS4445.

SUPERSEDED DRAWINGS

TABLE 2

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<tr>
<th>STRUCTURE TYPE</th>
<th>PIT DEPTH</th>
<th>NOM. Ø</th>
<th>NOM. ØS</th>
<th>MAX. Ø PIPE CONNECTING TO LINER</th>
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<td>BRN</td>
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<tr>
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<td>Ø750</td>
<td>TYPE T3</td>
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<td>2250</td>
<td>Ø950</td>
<td>TYPE T1</td>
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DRAWING REFERENCES

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<tr>
<td>200231-094</td>
<td>STRUCTURE SELECTION GUIDE</td>
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<td>200231-109</td>
<td>COVER TYPE PN BOUNDARY</td>
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<tr>
<td>200231-110</td>
<td>CONVERSION SLAB TYPE T1</td>
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<tr>
<td>200231-111</td>
<td>CONVERSION SLAB TYPE T2</td>
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<td>200231-115</td>
<td>STEP IRON DETAILS</td>
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<td>200231-116</td>
<td>PIT SILT TRAP IF REQUIRED</td>
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<tr>
<td>200231-121</td>
<td>DRAINAGE STANDARD DRAWINGS</td>
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DRAINAGE STANDARD DRAWINGS

BRN & DRN STRUCTURES
CONSTRUCTED WITH LINERS

MAM ROADS
Western Australia

TECHNOLOGY AND ENVIRONMENT DIRECTORATE
ROAD AND TRAFFIC ENGINEERING BRANCH

NOT TO SCALE

DRAUGHTER

200231-090