



Dimensions (mm)

1. Splitter block and pitching to be provided at all outlets where erosion is likely to occur.
2. Splitter block may be omitted if discharge velocity is less than 0.9 m/s.
3. Cut-off walls may be omitted if structure is founded on rock.
4. For multiple pipe culverts increase dimensions 'E' and 'F' by $(n-1)(A+460)\text{mm}$: Where n = number of pipes
A = nominal diameter of pipes
5. Pipes to be cut flush with headwall.
6. For skew pipe culverts the headwall shall be parallel to the centre line of the road.
7. If corrugated metal pipes are used $4 \times 20\text{mm} \times 150\text{mm}$ long galvanised anchor bolts in the hollows of the corrugation are to be used.
8. All concrete is to be 20MPa.
9. Square mesh fabric (Reference S.M.F.193) is to be placed 50mm from top in all apron slabs and centrally in cut-off walls.
10. Brickwork is to consist of good quality burnt clay common bricks in accordance with SABS 227 Specification, or cement bricks in accordance with SABS 987 Specification, uniform in size and shape layed in stretcher bond style with the skins tied together with galvanised crimped wire wall ties.
11. Brickforce is to be placed every 4th course.
12. Jointing on all visible faces to be pointed
13. No in-fill shall be larger than a half standard brick size unless 15MPa concrete is used.

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| DATE | STATUS | REV | REVISION DESCRIPTION | REFERENCE DRAWING No | REFERENCE DRAWING TITLE | NOTES | <div><div>DESIGNED BY DRAWN BY DESIGN CHECKED DRAWING CHECKED</div><div>M.TSHUMA Z.BIYELA T.ZUMA M.TSHUMA</div><div>N/A N/A N/A N/A</div></div> <div>PI TECH PI ENGINEER APPROVAL</div> <div><div>NAME DATE</div><div>T.ZUMA</div><div>SIGNATURE SIGNATURE DATE</div><div></div><div>2024/07/04</div></div> | | <div><div><div><div><div></div><div>MAFAHLENI ENGINEERS AND PROJECT MANAGERS</div></div><div>49 Ferreira Street Nelspruit 1200</div></div><div><div><div></div><div>Emalahleni Local Municipality</div></div><div>Emalahleni 1035</div></div></div></div> | CUSTOMER: <div><div><div><div></div><div>Emalahleni Local Municipality</div></div><div>Emalahleni 1035</div></div></div> | PROJECT TITLE <div>PROPOSED REHABILITATION OF BEATTY & DIEDERICKS</div> | DRAWING TITLE <div>TYPICAL DETAILS FOR PIPE CULVERT HEADWALLS (MANSORY)</div> | <div>DRAWING STATUS DESCRIPTION: DESIGN DEVELOPMENT TENDER AWARDING CONSTRUCTION AHS BUILT</div> <div>SCALE N/A</div> <div>SHEET 10F1</div> <div>SHEET NO A1</div> <div>MAFAHLENI ENGINEERS DRAWING NUMBER</div> <div>ME PROJECT DESCRIPTION DISCIPLINE NUMBER STATUS REV</div> <div>EMAL- 2024- RDS - 018 - T - 00</div> |
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