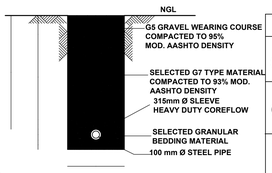



SECTION

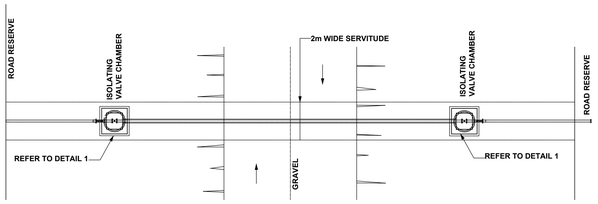



SECTION D-D

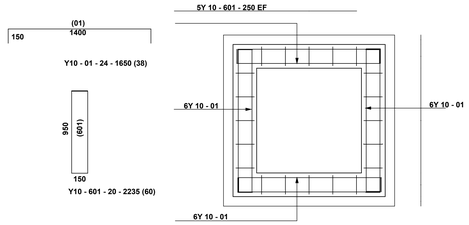
(ALL SPECIALS TO BE SUITABLE FOR 4 MPa WORKING PRESSURE.)

| ITEM | Diam. | DESCRIPTIONS | SKETCH OF FITTINGS | No. OFF |
|---|---|---|---|---|
| 1 | 100-560 | GMS PIPE FLANGED BOTH ENDS WITH PUDDLE FLANGE | | 1 |
| 2 | 100-560 | FLANGED TO GROOVED ADAPTOR | | 2 |
| 3 | 100-560 | RESILIENT SEAL GATE VALVE CLASS 40 | | 1 |

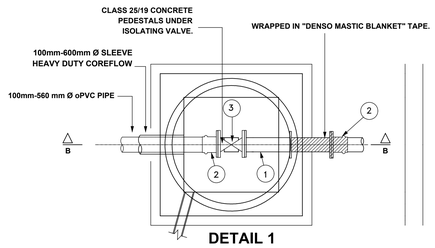
1. ALL DIMENSIONS IN MILLIMETRES
2. CONCRETE TO BE CLASS 15/19 UNLESS OTHERWISE SPECIFIED
3. COVER TO REINFORCEMENT TO BE 50mm
4. ALL FLANGES TO MINIMUM 4 000 kPA OR TO SUIT PIPE CLASS
5. ALL THREADS TO BSP STANDARDS
6. ALL BURIED FITTINGS AND HINGES TO BE WRAPPED IN "DENSO MASTIC BLANKET" TAPE
7. ALL STEEL COMPONENTS INCLUDING BOLTS GALVANISED TO ISO 1461 : 2000
8. ENGINEER TO BE CONSULTED IN RESPECT OF APPROPRIATENESS OF DESIGN FOR PIPE PRESSURE OVER CLASS 16
9. ALL WELDS TO BE FULL PENETRATION TO BS 534 AND FILLET WELD TO BE 80% OF WALL THICKNESS OR WITH A MINIMUM OF 5mm



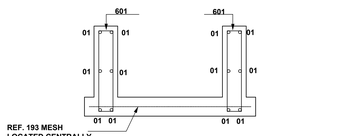

PLAN OF PIPE SLEEVE CROSSING UNDER ROAD



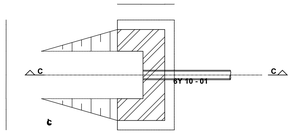

PLAN OF REINFORCING TO CHAMBER BASE



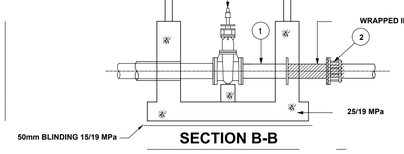

DETAIL 1



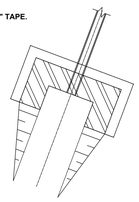

SECTION B-B

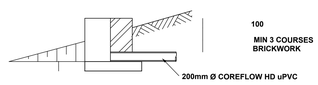



PLAN




SECTION B-B






SECTION C-C

## GENERAL NOTES

1. Do not scale this drawing. Work to figure by dimensions, only. Any discrepancies to be brought to the Engineers attention prior to implementation of any work.
2. Minimum concrete cube strength @ 28 days for blinding layer is to be 15MPA minimum concrete cube strength @ 28 days for walls, floor slabs, roof slabs, columns, foundations and external non-water retaining structure is to be 30MPA.
3. Concrete cover specifications are to be in accordance with the contract document design specifications.
4. Minimum cover to reinforcing all concrete members 25mm top & bottom.
   PWJ - partial wall vertical joint
   PFJ - partial floor joint
5. Engineer to inspect all reinforcement prior to casting concrete.
6. 20x20mm chamfer on all exposed concrete edges unless otherwise noted.
7. All steel flanges to S.A.B.S. 1123/77 table 1000/3 unless otherwise indicated.
8. Brick work:
   - All exposed external brickwork satin red facebrick.
   - All internal brickwork to be clay commons, plastered and painted acrylic pva white.
   - Outer face of internal brickwork skin to be bagged and bitumen painted.
   - Brickforce at windowsill level and wall plate level all around building.
   - N.B : 4 coarse brickforce above windows and doors.
   - DPC at floor and windowsill levels.
9. Plaster:
   - Cement plaster 12mm thick to internal vertical brick walls.
10. Painting:
    - Prepare and apply two coats bitumen paint on brick skin including working around wire ties.
    - Prepare and apply one coat plaster primer and two coats approved pva acrylic paint to internal walls, fibre cement fascia and barge board.
    - Clean with spirits of salts solution and apply two coats silicone-based brick dressing in strict accordance with the manufacturer's instructions to external face brick walling.
    - Prepare and apply one coat plaster primer and one coat universal undercoat and one coat approved eggshell enamel paint on fibre cement sills.
    - Etch and apply one coat zinc primer, one undercoat and two finishing coats approved universal gloss enamel paint on steel sashes, frames, and burglar bars.
    - Prepare, stop and apply two coats approved varnish on hardwood doors and frames.
    - prepare, knot prime stop, and apply one coat pink wood primer, one undercoat and two coats approved universal eggshell enamel paint on general surfaces of eaves timbers.
11. All steel pipe specials to be rilsan lined and coated to specifications.
12. All buried steel pipework & bolted connections to be 'denso' wrapped to specifications.
13. All puddle pipes to be tape wrapped to specifications.
14. All bolts & nuts to be hot dip galvanised, unless otherwise indicated.
15. All construction activities shall be executed to the Engineer's approval.
16. Setting out & final positioning of all steel pipework, including puddle pipes, to be confirmed by contractor on site, prior to fabrication and installation.

FOR TENDER

FUNDER:

water & sanitation
Department: Water and Sanitation
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF WATER AND SANITATION

Physical Address :
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Facsimile Number : (031) 701 0963
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Website Link or Address : info@kufanikiwa.co.za

DRAWING REVISIONS

| REV | DATE | DRAWN | CHECKED | DESCRIPTION |
|---|---|---|---|---|
| | | | | |
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| | | | | |
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| | | | | |

PROJECT NAME:

**WESTERN HIGHVELD BULK WATER SCHEME**

DRAWING TITLE:

**ROAD CROSSING DETAIL**

| RESPONSIBLE PERSONNEL. | | SIGNATURE | DATE |
|---|---|---|---|
| DESIGNED | S NGCOBO | | |
| DRAWN | L JIYANA | | |
| CHECKED | S MKHIZE | | |
| APPROVED | AM NDLOVU | | |
| SCALE | AS SHOWN | | |

APPROVED ; CLIENT

SIGNATURE DATE

| PROJECT NUMBER | DRAWING NUMBER | | |
|---|---|---|---|
| VU-WTR-21-006 | 308 | | |
| STAGE | SHEET SIZE | SHEET No. | REVISION |
| TENDER | A0 | 1 OF 1 | 0 |

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