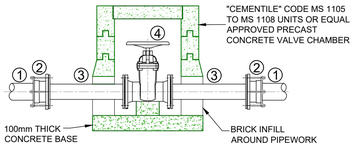
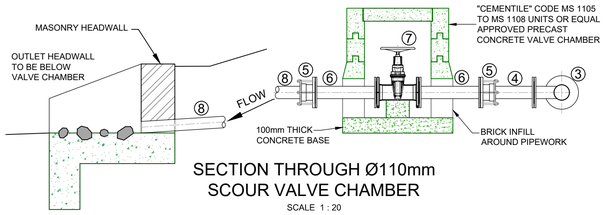


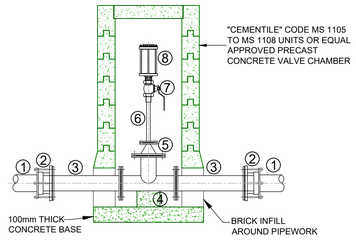
SECTION THROUGH Ø110mm
ISOLATION VALVE CHAMBER

SCALE 1 : 20



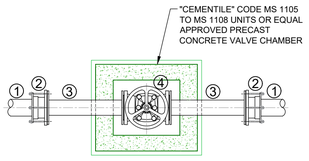
SECTION THROUGH Ø110mm
SCOUR VALVE CHAMBER

SCALE 1 : 20



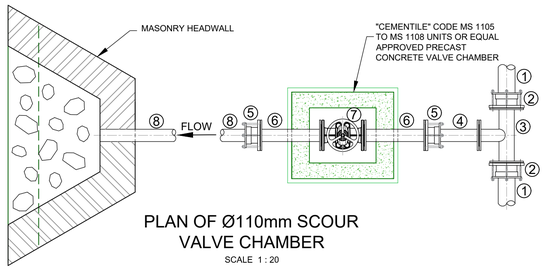
SECTION THROUGH Ø110mm
AIR VALVE CHAMBER

SCALE 1 : 20



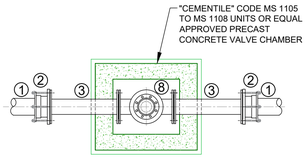
PLAN OF Ø110mm ISOLATION
VALVE CHAMBER

SCALE 1 : 20



PLAN OF Ø110mm SCOUR
VALVE CHAMBER

SCALE 1 : 20



PLAN OF Ø110mm AIR
VALVE CHAMBER

SCALE 1 : 20

Ø110mm ISOLATION VALVE CHAMBER FITTINGS SCHEDULE

ITEM No.	NAME	DRAWING	QTY
1	Ø110mm uPVC PIPE	PE	
2	Ø100mm "VJ" FLANGE ADAPTOR OR SIMILAR APPROVED		2
3	Ø100mm GMS FLANGED PIPE. ±500mm IN LENGTH	FL FL	2
4	Ø100mm "AVK" CLASS 25 RS GATE VALVE OR SIMILAR APPROVED CAST INTO CONCRETE PEDESTAL	FL FL FL FL ELEVATION PLAN	1

Ø110mm SCOUR VALVE CHAMBER FITTINGS SCHEDULE

ITEM No.	NAME	DRAWING	QTY
1	Ø110mm uPVC PIPE	PE	
2	Ø100mm "VJ" FLANGE ADAPTOR OR SIMILAR APPROVED	FL	2
3	Ø100mm TO Ø80mm GMS FLANGED UNEQUAL TEE	FL FL FL	1
4	Ø80mm GMS PIPE, FLANGED ONE END. ±350mm IN LENGTH	PE FL	1
5	Ø80mm "VJ" FLANGE ADAPTOR OR SIMILAR APPROVED	FL	2
6	Ø80mm GMS FLANGED PIPE. ±400mm IN LENGTH	FL FL	2
7	Ø80mm "AVK" RSV GATE VALVE OR SIMILAR APPROVED CAST INTO CONCRETE PEDESTAL	FL FL FL FL ELEVATION PLAN	1
8	Ø75mm uPVC PIPE	PE	

Ø110mm AIR VALVE CHAMBER FITTINGS SCHEDULE

ITEM No.	NAME	DRAWING	QTY
1	Ø110mm uPVC PIPE	PE	
2	Ø100mm "VJ" FLANGE ADAPTOR OR SIMILAR APPROVED		2
3	Ø100mm GMS FLANGED PIPE. ±450mm IN LENGTH	FL FL	2
4	Ø100mm GMS FLANGED EQUAL TEE	FL FL FL	1
5	Ø100 TO Ø25mm GMS FLANGED REDUCER	FL FL	1
6	Ø25mm GMS PIPE FLANGED ONE END AND THREADED THE OTHER END	FL 240	1
7	Ø25mm THREADED BALL VALVE		1
8	Ø25mm CLASS 16 TYPE 3 RBX AIR VALVE WITH SCREWED BSP/NPT MALE END CONNECTION, AS SUPPLIED BY "VENTOMAT" OR SIMILAR APPROVED		1

General Notes:

1. All dimensions and levels are to be checked on site and where applicable to match the existing structure.
2. Any discrepancies or contradictions on the drawings are to immediately be reported to the Engineer.
3. All dimensions are in millimetres. Drawings are not to be scaled.
4. All dimensions shown on the drawings are to be set out on site on the horizontal plane.
5. A complete set of drawings to be available on site at all times.
6. The contractor is responsible for the correct setting out on site and to ensure that the setting out details are in accordance with the drawings.
7. All drawings are to be read in conjunction with the architect's details and drawings.
8. The contractor is responsible for checking that the reinforcement is fixed and maintained in the correct position before and during the casting of concrete.
9. Finished structure is to comply with the latest amendments of SANS 10400.
10. No concrete may be cast without the approval from the Engineer and a minimum of 48 hours' notice is to be given to the Engineer prior to an inspection on site.
11. All reinforcing steel to comply with SANS 0920 as follows.:
    - R - Plain round mild steel bars of strength 250MPa.
    - Y - High yield deformed steel bars of strength 450MPa.
12. All reinforcing steel is to be bent in accordance with SANS 282:2004.
13. Symbols.:
    - T - Top
    - M - Middle
    - B - Bottom
    - EW - Each way
    - HOR - Horizontal
    - ABR - Alternate bars reversed
    - STG - Staggered
    - NTS - Not to Scale
14. Minimum splicing to reinforcing steel bars are as follows.:
    - Y10 - 400mm
    - Y12 - 480mm
    - Y16 - 640mm
    - Y20 - 800mm
    - Y25 - 1000mm
    - Y32 - 1280mm
    - Y40 - 1600mm
15. Minimum cover to reinforcing steel bars unless otherwise stated on drawings are as follows.:
    - Column bases - 75mm
    - Strip foundations - 50mm
    - Raft foundations - 40mm
    - Staircases - 40mm
    - Columns - 40mm
    - Slabs - 40mm
    - Beams - 40mm
    - Walls - 40mm
16. Max slump for all concrete to be 75mm unless otherwise stated on drawings.
17. All concrete to be 25/19 MPa unless otherwise stated on drawings. Contractor to provide Engineer with test results for 3 x test cubes. All concrete to be vibrated when placed on site.
18. Concrete to be cured on site by daily watering for a period of seven (7) days.
19. All concrete works supporting brickwork to be cured for a minimum of three (3) days prior to any construction of brickwork commencing.
20. Minimum compressive strength of bricks shall be 7Mpa in accordance with SANS 10400 unless otherwise stated on the drawings.
21. Clay bricks to be thoroughly wetted before use.
22. A slip joint comprising of 2 by layers 3 ply malthoid must be provided between all loadbearing brickwork and the concrete structure.
23. A 10mm soft joint must be provided between all non loadbearing brickwork and the concrete structure.
24. The specification for fill material to be as follows.:
    - Contain no organic material.
    - Contain no stone with a dimension of larger than two thirds of the layer being compacted.
    - A PI of not exceeding 10 and a CBR of at least 15% at 93% MOD A.A.S.H.T.O and be capable of being compacted to 98% MOD A.A.S.H.T.O.
    - Swell at 100% MOD A.A.S.H.T.O shall not exceed 1.5%.
25. A sample of fill material together with test results to be provided to Engineer prior to construction.

Removal of formwork & supports from concrete:	Days:
Beam sides	2
Deck plates - props left under	7
Beam soffits - props left under	12
Removal of slab props	17
Removal of beam props	21

NB: The above does not include any adjustment for loading (excluding normal loading) being applied above the structural element.

Revision Details

No.	Date	Description	By

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PROUDLY SOUTH AFRICAN

FOR APPROVAL

Client: REDLINE GROUP

Project: NAHOON VALLEY DEVELOPMENT

Drawing Title: 110mmØ WATER VALVE CHAMBER DETAILS

Designed:	Scale:
N.Weyer	As Shown
Drawn:	Size:
N.Weyer	A1
Checked:	Date:
D.De Wet	06 July 2022

Revision: 0

Drawing No.: S222150-WD-02