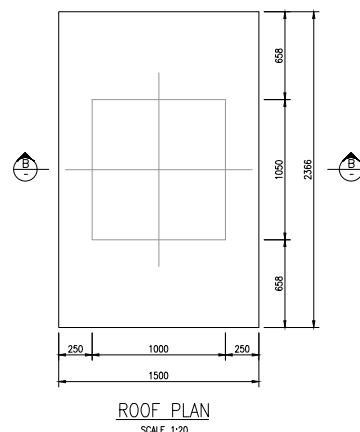




PIPEWORK		
No.	DESCRIPTION	DIMENSION
1	100mm ϕ FLANGE ADAPTOR	
2	CONCENTRIC FLANGED REDUCER	
3	100mm ϕ FLANGED PADDLE PIPE SPOOL PIECE	1000mm
4	100 mm ϕ WHEEL OPERATED VALVE	
5	100mm ϕ DIRTBOX(PN16)	
6	SPOOL PIECE F.B.E (PN16)	300mm
7	100mm ϕ FLANGE ADAPTOR	
8	100mm METER	
9	100mm ϕ PRV	
10	EQUAL TEE	600mm x 200mm
11	100mm ϕ AIR VALVE WITH BALL VALVE	

REPAIR OF PIPE COATINGS/LININGS		
COATING/LINING	COLOR	REPAIR MEDIUM
COPON KSR 88	RED/BLUE	COPON HYCOTE 15
FUSION BONDED EPOXY (F.B.E)	GREEN	COPON HYCOTE 15
FUSION BONDED MEDIUM DENSITY POLYETHYLENE (F.B.M.D.P.E)	BLACK	COPON HYCOTE 15
COPON	RED	COPON HYCOTE 15
SOLVENT FREE/BORNE EPOXY (S.F.E./S.B.E.)	BLUE/RED/GRAY	COPON HYCOTE 15
CEMENT MORTAR	GRAY	EPIDERMAL 338
RISLAN	BLACK	RISLAN REPAIR KIT

1. CONCRETE

1. CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF SANS 1200 G.
2. CONCRETE CRUSHING STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS :

- BUNDLING LAYER	10 MPa / 19 mm
- WALL FOOTINGS	25 MPa / 19 mm
- COLUMN BASES	30 MPa / 19 mm
- COLUMNS	40 MPa / 19 mm
- RETAINING WALLS / WALLS	30 MPa / 19 mm
- SURFACE BED SLABS	25 MPa / 19 mm
- STRAPPING / GRADING RAILS	30 MPa / 19 mm
- SUSPENDED SLABS	30 MPa / 19 mm
- STAIRS	30 MPa / 19 mm
- SHAFTS / SHAERALLS	30 MPa / 19 mm
3. WHEN READY-MIX CONCRETE IS USED TEST CUBES MUST BE TAKEN ON SITE.
4. ALL LEVEL REQUIREMENTS FOR BUILDINGS TO BE IN ACCORDANCE WITH SANS 1200 G AND SANS 0155
5. CURING OF CONCRETE SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH SANS 1200 G.
6. THE LINE LOADS FOR WHICH THE STRUCTURE HAS BEEN DESIGNED ARE AS FOLLOWS :

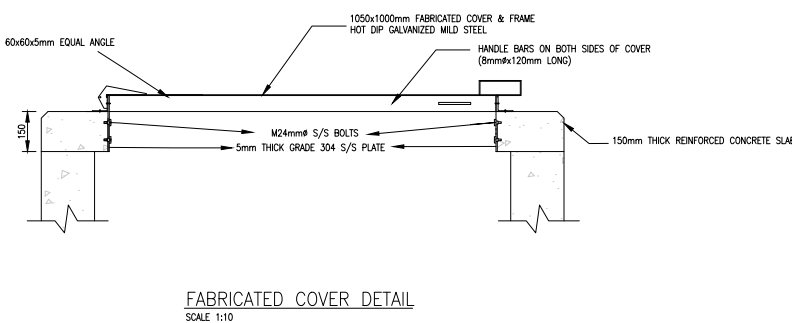
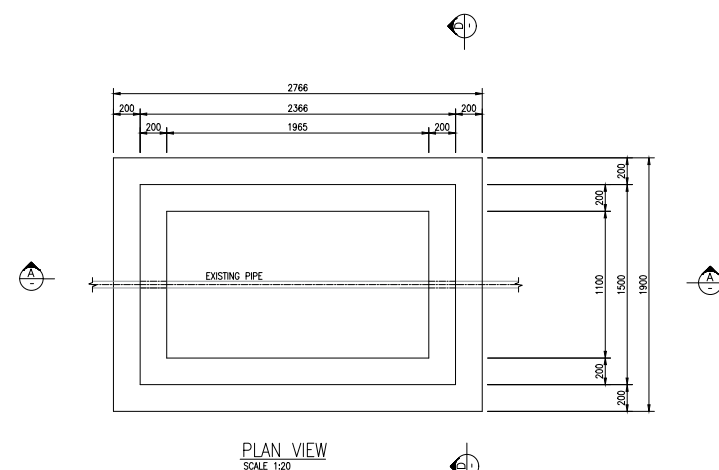
- OFFICE FLOORS & GROUND FLOOR	400 kg/sqm
- STAIRS & RAMP	300 kg/sqm
- PARKING FLOOR SLABS	300 kg/sqm
- ROOF SLABS (PLANT ROOM)	400 kg/sqm
7. ROAD LOADS SUCH AS BROWNDOWN, SCREEDS, PAVED AREAS, WHERE SHOWN ON DRAWINGS, ARE KEPT SEPARATELY.
8. STRUCTURAL DRAWINGS MUST BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS AND ANY DISCREPANCIES MUST BE REPORTED TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
9. NO BRICK WALLS MUST BE BUILT ON FLOOR SLABS UNTIL THE SLABS HAVE REACHED THEIR 14 DAY STRENGTH.
10. NO "JOCKERS" FOR VERTICAL MEMBERS HAVE BEEN ALLOWED.
11. FOR DRAINAGE RETENTION BEHIND RETAINING WALLS SEE CIVIL ENGINEERS DRAWING.
12. CENTER LINE OF SOUTTERING AND PROPPING LINES TO BE IN ACCORDANCE WITH SANS 1200 G.
13. CENTER LINE OF ALL COLUMNS ARE PLACED SYMMETRICALLY ON GRID LINES, UNLESS OTHERWISE SHOWN
14. CONCRETE TOLERANCE TO BE DEGREE OF ACCURACY (W/0.1 TO PERH. SANS 1200 G.
15. ALL EXPOSED CONCRETE TO HAVE 20 mm x 20 mm CHAMFER
16. ALL EXPOSED CONCRETE TO BE OF GUT SHUTTER (NO.1 AS PERCH. DWG'S)
17. ALL EXPOSED SLAB EDGES TO HAVE 40mm cover to REINFORCEMENT.
18. - ALL SLABS ARE TO BE PROPPED THROUGH TWO SUPPORTING SLABS (W/0.1) DURING CASTING OPERATIONS. CONSTRUCTION LOADS ARE TO EXCEED DESIGN LINE LOADS. NOTE: - PROPPING TO THE LOWER FLOOR SLABS ARE TO BE LOCKED TO ALLOW THE SLABS TO DEFLECT, THE SLABS MUST BE PROPPED BEFORE CASTING OF THE NEW FLOOR SLAB.
19. - CONTRACTOR IS TO TAKE NOTE THAT THE 675 TON G.C. TRANSFER SLAB REQUIRES SPECIAL PROPPING TO BE INSTALLED OVER THREE OR MORE SLABS CAST
17. CONSTRUCTION JOINTS TO BE:
 - BEFORE COMMENCING TO CAST NEW CONCRETE, THE SURFACE OF THE OLD CONCRETE SHALL BE CLEANED AND SMOOTHED TO EXPOSE THE AGGREGATE.
 - THE JOINTS ARE TO BE KEPT WET FOR TWO HOURS BEFORE CASTING.
 - THE OLD CONCRETE MUST BE SLOSHED WITH WATER BEFORE CASTING.

THIS DRAWING IS NOT TO BE SCALED. FIGURED DIMENSIONS ONLY ARE TO BE FOLLOWED. ADDITIONAL DIMENSIONS, WHEN REQUIRED, WILL BE PROVIDED UPON REQUEST. CONTRACTORS ARE TO CHECK ALL DIMENSIONS BEFORE WORK COMMENCES AND REFER ANY DISCREPANCY TO THE ENGINEER FOR ADJUSTMENTS.

DRAWING No.	REFERENCE DRAWINGS :
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A	MAY 2026	ISSUED FOR INFORMATION	G.S
NO.	DATE	REVISION	DRAWN

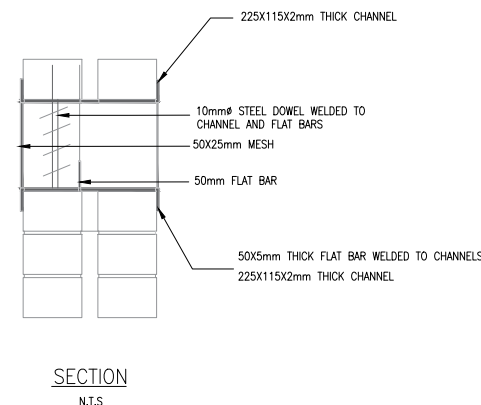
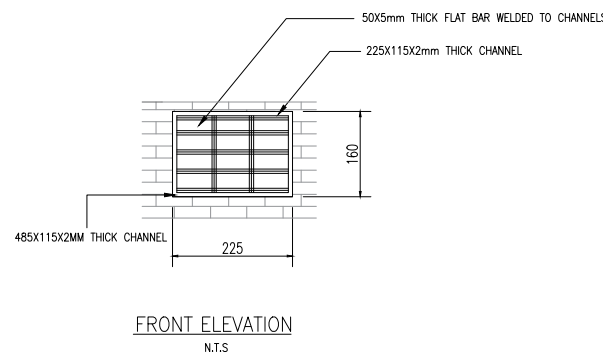
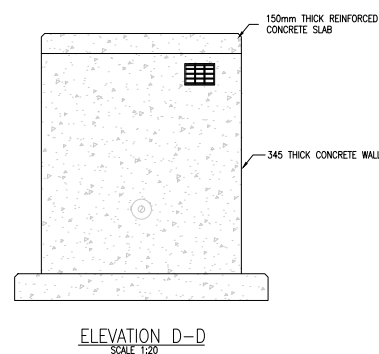
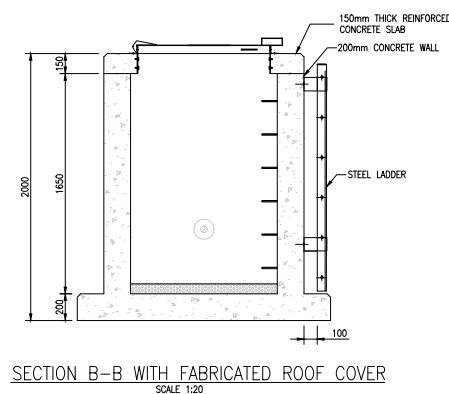
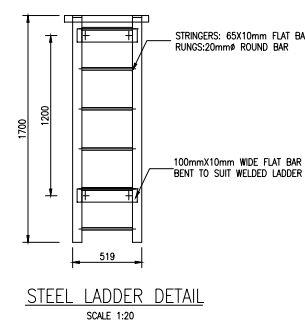
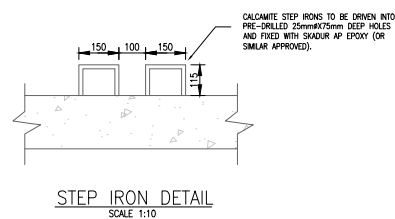
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NOTES: PIPE WORK

1. EXACT PIPE INSTALLATION TO BE INDICATED BY DRAWING.
2. 2" PIPES LAID WITH GRIDES TO 1:10; THE PIPE INSTALLATIONS TO BE INSTALLED IN LINE & AT GRADE. PIPE LAID AT GRIDES AT GREATER THAN 1:10 THE PIPY INSTALLATION IS TO BE HORIZONTAL.
3. CONCRETE TO BE CONFIRM DIMENSIONS OF ALL NEW STEEL PIPE WORK PRIOR TO FABRICATION AND INSTALLATION.
4. PIPOR INSTALLATION ALL FABRICATE PIPE WORK TO BE EXTERNALLY COATED AND INTERNALLY LINED WITH RESIN OR APPROVED EQUIVALENT.
5. ALL COATED PIPE WORK AND ASSEMBLIES TO BE COATED PLACED TO BE COATED WITH COPON HITE 151 TO A MINIMUM DRY FILM THICKNESS OF 300 MICRONS.
6. 6"ORCE PIPE HAS BEEN INSTALLED ALL DAMAGED STEEL PIPE WORK IS TO BE REPAIRED TO MEET THE SPECIFICATIONS OF THE CONTRACT DOCUMENTS.
7. ALL GATE VALVES TO BE INSTALLED UNDER SPACER RINGS AND 56 IN. WAVE COVER AS PER STANDARD PRECAST CONCRETE CHAMBER VALVES.
8. FLANGE DRILLING ACCORDANCE WITH SABS 1122 TABLE 16500(P16).
9. ALL STEEL TO BE IN ACCORDANCE WITH SABS 7145-MEDIUM GRD-4mm THICK.
10. ENDS OF EXISTING AC PIPE TO BE CUT AND REINFORCED (WHERE APPLICABLE).

300mm STEP IRONS TO BE
CAST INTO WALL AT 300MM C/C
N.B STAINLESS STEEL LADDERS MUST
BE PROVIDED FOR DEPTHS >2.5m



CONSULTING ENGINEERS



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PROJECT	COMPLETION OF NONDABUYA WSS
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DRAWING TITLE

NONDABUYA INLET VALVE CHAMBER
DETAILS

	SIGNATURE	DATE	PR.No.	SHEET SIZE
DESIGNED	K.T	MAY 2026		A0
DRAWN	G.S	MAY 2026		SCALE
CHECKED	N.N	MAY 2026		AS SHOWN
APPROVED				DWG STATUS
CO-ORDINATOR				P PRELIMINARY CONSTRUCTION

DRAWING NUMBER

UKDM-0057-05

REVISION No. _____

A

SDM-DRAWING No.
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