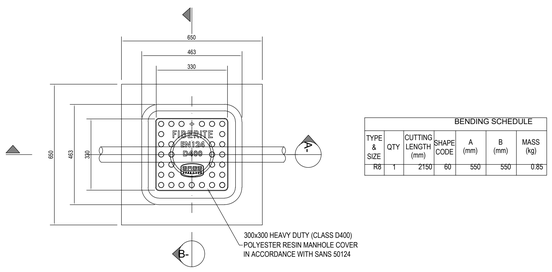
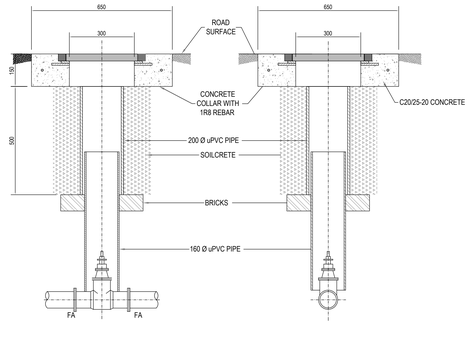
TYPE B - SPECIAL :

ONLY TO BE USED FOR :
- MAINTENANCE
- WITHIN ROADWAY
- FIRE HYDRANT CONNECTIONS LARGER THAN 200 Ø
- OR IF SPECIFIED BY ENGINEER



PLAN
SCALE 1:10

BENDING SCHEDULE						
TYPE & SIZE	QTY	CUTTING LENGTH (mm)	SHAPE CODE	A (mm)	B (mm)	MASS (kg)
R8	1	2150	60	550	550	0.85



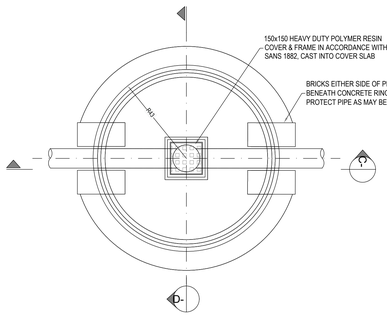
SECTION A-
SCALE 1:10

SECTION B-
SCALE 1:10

POLYESTER RESIN VALVE CHAMBER

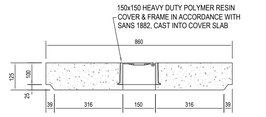
TYPE A - STANDARD :

FOR USE WITHIN SIDE WALKS

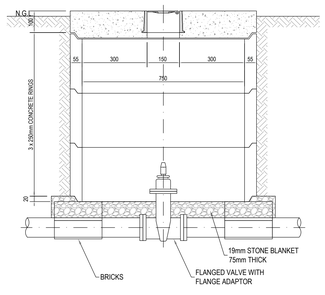


PRE-CAST CONCRETE VALVE CHAMBER RINGS			
INNER Ø (mm)	EFFECTIVE LENGTH (mm)	WALL THICKNESS (mm)	OUTER Ø (mm)
750	250, 500, 1000	55	860

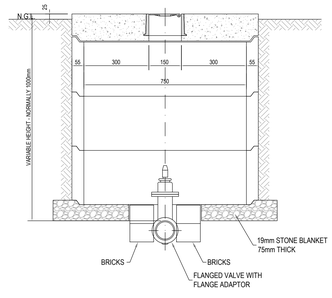
PLAN
SCALE 1:10



CONCRETE COVER SLAB DETAIL
SCALE 1:10

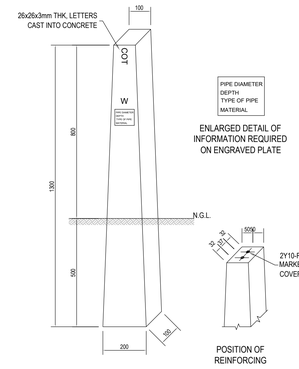


SECTION C-
SCALE 1:10



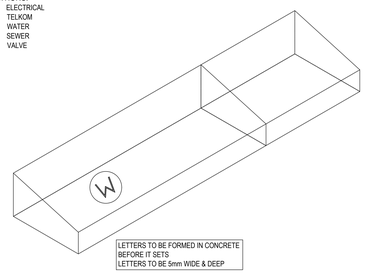
SECTION D-
SCALE 1:10

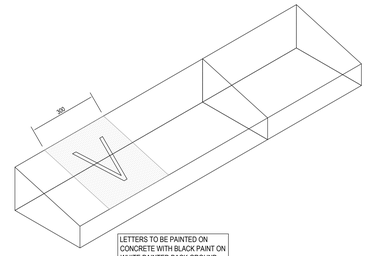
CONCRETE RING VALVE CHAMBER



CONCRETE MARKER BLOCK
SCALE 1:10

IDENTIFICATION OF PIPE & SLEEVE POSITIONS:
- E = ELECTRICAL
- T = TELKOM
- W = WATER
- S = SEWER
- V = VALVE







MARKERS ON CONCRETE KERBS
SCALE 1:10

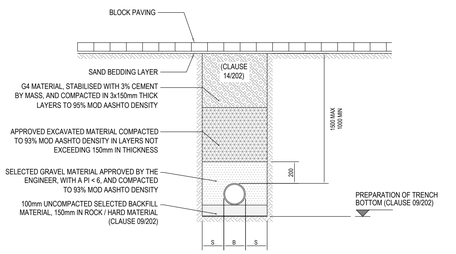
NOTES AND SPECIFICATIONS

GENERAL

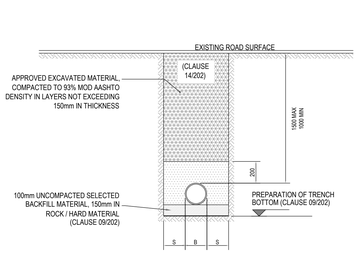
1. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SANS STANDARD
2. ALL DIMENSIONS ARE IN mm (UNLESS OTHERWISE SPECIFIED)
3. DO NOT SCALE FROM THESE DRAWINGS
4. ALL DIMENSIONS TO BE CHECKED AND APPROVED ON SITE
5. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, THIRD EDITION 2005 AND THE STANDARD COT DETAIL DRAWINGS
6. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE STANDARD DRAWINGS (IF APPLICABLE)
7. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, SERIES 4
8. THE SIGNATURE OR INITIALS ON THIS DRAWING OF ANY DIRECTOR OF THE WATER AND SANITATION DEPARTMENT, IN NO WAY, REMOVES ANY RESPONSIBILITY WHATSOEVER FROM THE CONSULTANT
9. THE CONSULTANT REMAINS RESPONSIBLE TO ENSURE THAT ALL THE GUIDELINES, STANDARD DRAWINGS, STANDARDS AND SPECIFICATIONS OF THE WATER AND SANITATION DEPARTMENT HAVE BEEN MET AND ARE COMPLIED WITH
10. FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE

PARTICULAR

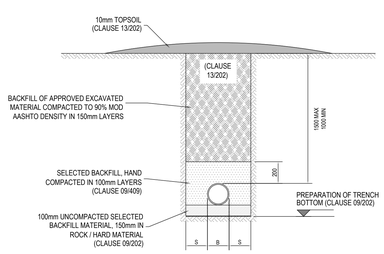
1. PAINT 400x300mm BLOCK ON KERBING OPPOSITE VALVE WITH WHITE ROAD MARKING PAINT
2. ALL RSV VALVES TO BE FLANGED NON RISING SPINDLE, ANTI-CLOCKWISE CLOSING WITH CAP TOP
3. STEEL PIPES MUST BE WRAPPED WITH CANUSA-CPS WRAPID TAPE
4. STAINLESS STEEL BOLTS & NUTS TO BE USED
5. MANHOLE COVER SPECIFICATIONS :
   - WITHIN ROADWAY : CLASS D400 MANHOLE COVER IN ACCORDANCE WITH SANS 50124, POLYESTER RESIN OR SIMILAR
   - WITHIN SIDEWALK : HEAVY DUTY COVER & FRAME IN ACCORDANCE WITH SANS 1882, POLYMER RESIN OR SIMILAR



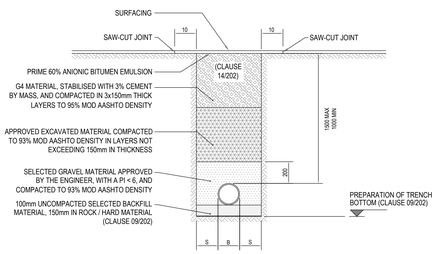
A) PAVED AREAS



B) GRAVEL ROADS



C) SIDE WALKS



D) SURFACED ROADS

TYPICAL BEDDING & BACKFILL DETAILS FOR WATER & SEWER PIPES
SCALE 1:20

LEGEND:
S = WORKING SPACE EACH SIDE OF PIPE, MIN 200mm (CLAUSE 04.01/202)
B = OD OF PIPE
(CLAUSE 00/999) - REFERENCE IN STANDARD SPECIFICATION
(CLAUSE NUMBER / SECTION NUMBER)

No.	DATE	REVISION
V1	08/03/2024	ORIGINAL VERSION

HEAD OFFICE
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Val de Grace
Pretoria
0184

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Pretoria 0001
South Africa

Tel: (012) 844 8000

SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

WESTERN REGION
1 Havenga Street
Oakdale
Bellville
7530

Private Bag X19
Bellville
7535

Tel: (021) 957 4600

ACCEPTANCE

THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWEVER ARISING

for the SA NATIONAL ROADS AGENCY SOC LTD.
Date:

PROJECT DESCRIPTION
THE CAPACITY IMPROVEMENT OF NATIONAL ROUTE 1 SECTION 1 FROM OLD OAK INTERCHANGE (KM 18.90) TO KOELENHOF INTERCHANGE (KM 33.00)

TYPICAL WATER DETAILS
VALVE BOX, MARKERS & BACKFILLING DETAILS
SHEET 1 OF 2

SCALE @ A0: AS SHOWN | SHEET 1 OF 2

PROJECT NUMBER	N001-010-2021/1	
DRAWING LOCATION DATA	START	END
ROUTE	N01	N01
SECTION	01	01
DRAWING km DISTANCE	18.900	33.000
DRAWING TYPE	TYPICAL SERVICE DETAILS	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	312-00827-01-TD80	VER
SANRAL DOCUMENT #	XXXXXX	V1

312-00827-01-TD83