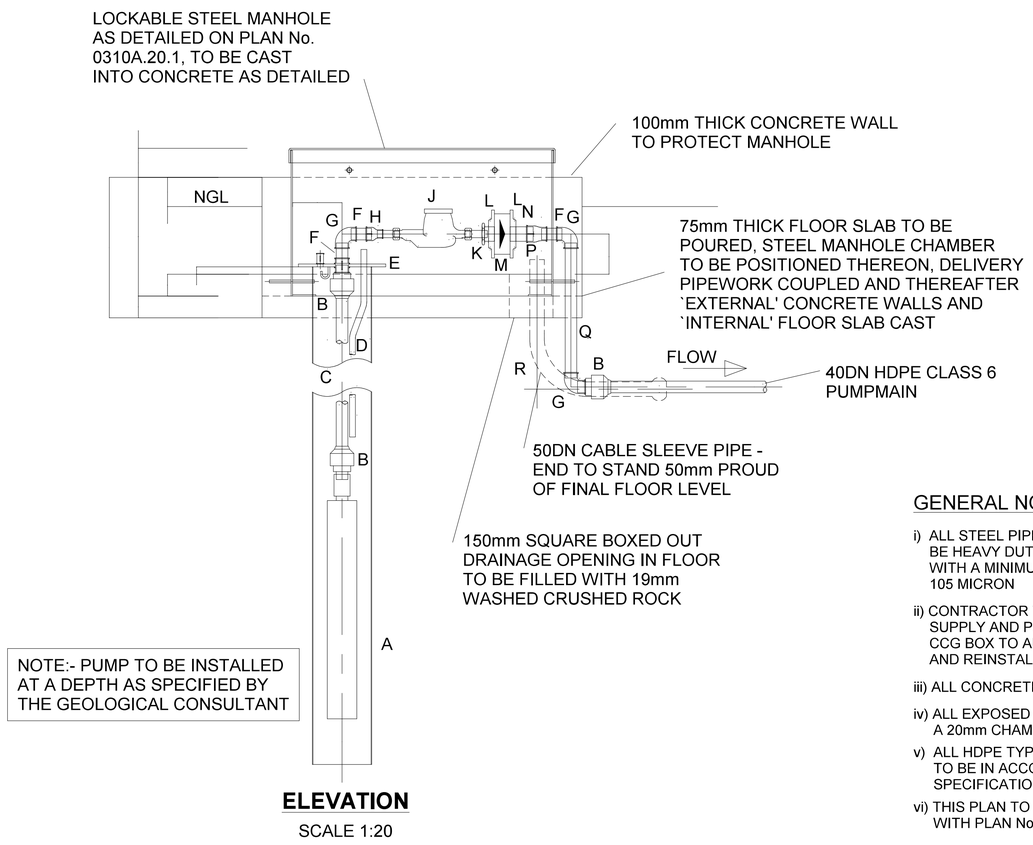


ELEVATION

SCALE 1:20

GENERAL NOTES

i) ALL STEEL PIPES AND FITTINGS TO BE HEAVY DUTY HOT DIP GALVANISED WITH A MINIMUM ZINC COATING OF 105 MICRON

ii) CONTRACTOR TO NUMBER WIRES OF SUPPLY AND PUMP CABLES INSIDE CCG BOX TO ALLOW FOR QUICK REMOVAL AND REINSTALLATION OF PUMP

iii) ALL CONCRETE TO BE 25/19 MPa

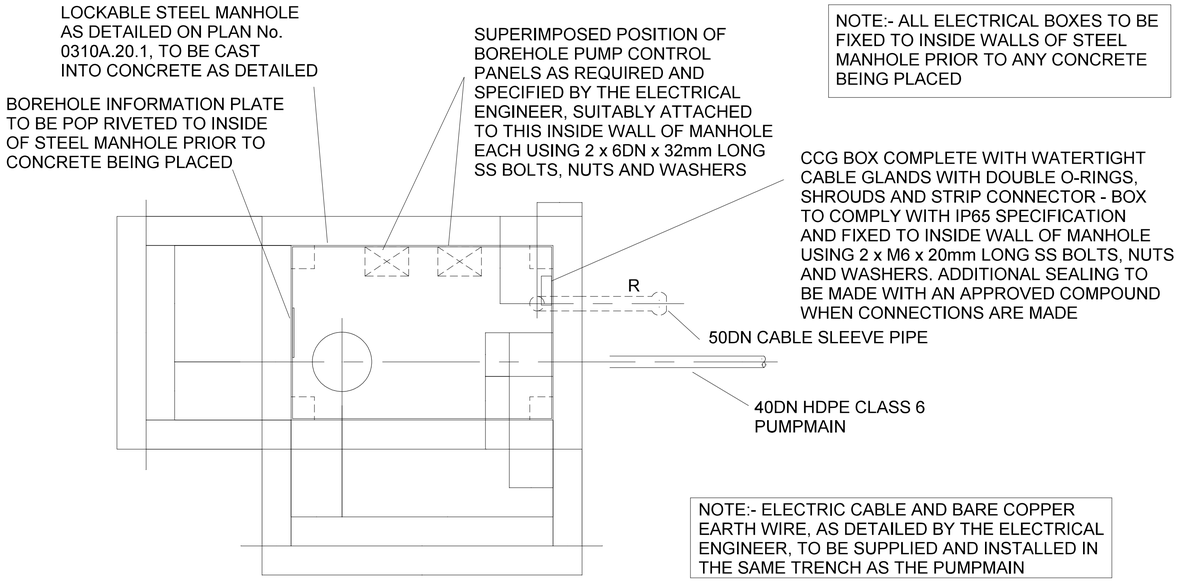
iv) ALL EXPOSED CONCRETE EDGES TO HAVE A 20mm CHAMFER

v) ALL HDPE TYPE IV CLASS 10 AND 6 PIPING TO BE IN ACCORDANCE WITH SABS ISO 4427 SPECIFICATIONS

vi) THIS PLAN TO BE READ IN CONJUNCTION WITH PLAN No 0310A.20.1

SCHEDULE OF FITTINGS

REF	NB	DESCRIPTION	WALL 't' mm	FLANGE DRILLING	TREATMENT		QTY
					GALVANISED	EPOXY RESIN PAINT	
A	40	'SUPER D' SUBMERSIBLE BOREHOLE PUMP WITH FRANKLIN MOTOR COMPLETE WITH IN-LINE NON-RETURN VALVE, PVC COOLING TUBE, LEAD-OUT CABLE AND 8 DN NYLON SUPPORT ROPE (AS SUPPLIED BY HOWDEN PUMPS)					1set
B	40	'PLASSON' MALE ADAPTOR					3no
C	40	HDPE TYPE IV CLASS 10 RISER COLUMN (LENGTH ACCORDING TO GEOLOGICAL CONSULTANTS SPECIFICATION) (PROVISIONAL)					30m
D	20	HDPE TYPE IV CLASS 10 DIPPER TUBE STRAPPED TO 40 DN RISER COLUMN AT 1,5 m CENTRES WITH CABLE TIES AND PROTRUDING 100 mm THROUGH BOREHOLE COVER PLATE INTO MANHOLE (PROVISIONAL)					30m
E		300 mm DIA x 10 mm THICK MILD STEEL BOREHOLE BASE PLATE HAVING 1 x 40 DN STEEL PARALLEL SOCKET WELDED CENTRALLY INTO CENTRE OF PLATE, 1 x 20 DN STEEL SOCKET WELDED OVER 20 DN HOLE IN PLATE FOR ELECTRIC CABLE (COMPLETE WITH CABLE GLAND) AND 1 x 20 DN HOLE IN PLATE FOR 20 DN DIP TUBE TO PASS THROUGH. 20 DN HOLES TO BE AT 180 DEGREES TO ONE ANOTHER AND ON A 50 mm RADIUS FROM THE CENTRE OF THE PLATE. A 20 mm DIA EYE FABRICATED FROM 6 mm M.S. ROD (FOR SECURING SUPPORT ROPE) IS TO BE WELDED TO THE UNDERSIDE OF THE BASE PLATE				*	1set
F	40	MGI BARREL NIPPLE			*		3no
G	40	90 DEGREE MGI FEMALE ELBOW			*		3no
H	40 x 25	40 x 25 DN MGI REDUCING SOCKET			*		1no
J	25	'INVENSYS' TYPE M-N MULTIJET-FANWHEEL-METER, WET DIAL DOMESTIC WATER METER COMPLETE WITH 25 DN TAILS FITTED TO BOTH UPSTREAM AND DOWNSTREAM SIDES OF METER					1set
K	50 x 25	50 x 25 DN MGI REDUCING BUSH			*		1no
L	50	GALVANISED STEEL SCREWED BOSS FLANGE		SABS 10	*		2no
M	50	'CHECK-RITE' WAFER PATTERN NON-RETURN VALVE SUITABLE FOR 1 000 kPa PRESSURE. NOTE: VALVE TO FIT BETWEEN SABS 1123 TABLE 1000/4 FLANGES		SABS 10		*	1no
N	50	MGI BARREL NIPPLE			*		1no
P	50 x 40	50 x 40 DN MGI RECUDING SOCKET			*		1no
Q	40	465 mm LONG GALVANISED STEEL PIPE THREADED BOTH ENDS	4.5		*		1no
R	50	90 DEGREE uPVC LONG RADIUS BEND					1no



NOTE:- ALL ELECTRICAL BOXES TO BE FIXED TO INSIDE WALLS OF STEEL MANHOLE PRIOR TO ANY CONCRETE BEING PLACED

NOTE:- ELECTRIC CABLE AND BARE COPPER EARTH WIRE, AS DETAILED BY THE ELECTRICAL ENGINEER, TO BE SUPPLIED AND INSTALLED IN THE SAME TRENCH AS THE PUMPMAIN

PLAN

SCALE 1:20

CORROSION PROTECTION:

i) PAINTWORK IN WORKSHOP:

EPOXY COATING SHALL BE AN APPROVED TWO COMPONENT, POLYAMIDE CURED PIPE COATING. IT SHALL BE APPLIED IN THE WORKSHOP BY SPRAYING TO A FINAL THICKNESS OF NOT LESS THAN 300 MICRON.

ii) PAINTWORK AFTER ERECTION:

a) AFTER INSTALLATION ANY CHIPS OR SCRATCH MARKS SHALL BE MADE GOOD ON SITE WITH BRUSH APPLIED EPOXY PAINT.

b) AN INTERIM LAYER ACCORDING TO SABS 681 TYPE I SHALL BE APPLIED TO A FINAL THICKNESS OF 25 MICRON.

iii) FINAL FINISHING LAYER:

A FINAL ENAMEL LAYER ACCORDING TO SABS 630 GRADE 1 SHALL BE APPLIED WITHIN 24 HOURS AFTER THE INTERIM LAYER HAS BEEN APPLIED, TO A FINAL THICKNESS OF 25 MICRON (COLOUR TO BE DARK ADMIRALTY GREY)

THIS PLAN TO BE READ IN CONJUNCTION WITH SABS 0299 PART 5 OF 2002 AND SABS 0299 PART 6 OF 1998

Notes/Notas

Amendment/Wysiging

No. Nr.	Date Datum	Checked Nagesien	Description Beskrywing

ENGINEERS & Project Managers Established 2000

16 ELANDSRIVIER
AERORAND
MIDDLEBURG
1200

TEL: (013) 752 7475

Designed Ontwerp	JJ	Traced Nagetrek	
Drawn Geteken	JJ	Checked Nagesien	

Pr.Eng. Pr.Ing.

Consulting Eng./Raadgewende Ing. Date/Datum

Client/Klient Date/Datum

Client/Klient

VICTOR KHANYE LOCAL MUNICIPALITY

Project/Projek

DRILLING, REFURBISHMENT OF BOREHOLES IN RURAL AREAS AND PROVISION OF ELEVATED TANK, CONSTRUCTION OF RISING MAIN AND ENERGISING OF BOREHOLES WITH ACCESORIES

Plan Description/Planbeskrywing

TYPICAL EQUIPPED BOREHOLE

Scale/Skaal	Date/Datum
1:5000	SEPTEMBER 2025

Plan No.

NS3309/09