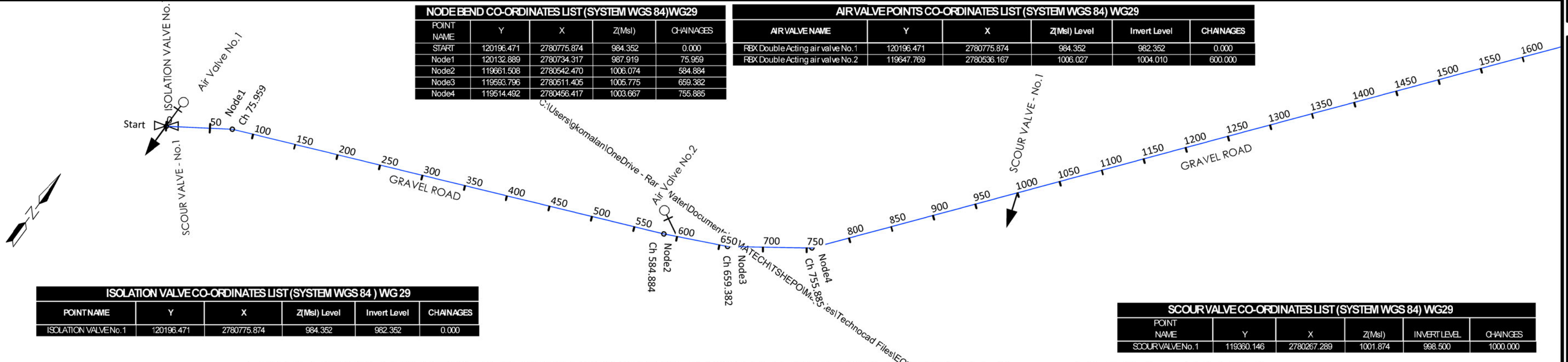


NODE BEND CO-ORDINATES LIST (SYSTEM WGS 84)WG29				
POINT NAME	Y	X	Z(Msl)	CHAINAGES
START	120196.471	2780775.874	984.352	0.000
Node1	120132.889	2780734.317	987.919	75.959
Node2	119661.508	2780542.470	1006.074	584.884
Node3	119593.796	2780511.405	1005.775	659.382
Node4	119514.492	2780456.417	1003.667	755.885

AIR VALVE POINTS CO-ORDINATES LIST (SYSTEM WGS 84) WG29					
AIR VALVE NAME	Y	X	Z(Msl) Level	Invert Level	CHAINAGES
RBX Double Acting air valve No.1	120196.471	2780775.874	984.352	982.352	0.000
RBX Double Acting air valve No.2	119647.769	2780536.167	1006.027	1004.010	600.000

ISOLATION VALVE CO-ORDINATES LIST (SYSTEM WGS 84) WG 29					
POINT NAME	Y	X	Z(Msl) Level	Invert Level	CHAINAGES
ISOLATION VALVE No.1	120196.471	2780775.874	984.352	982.352	0.000

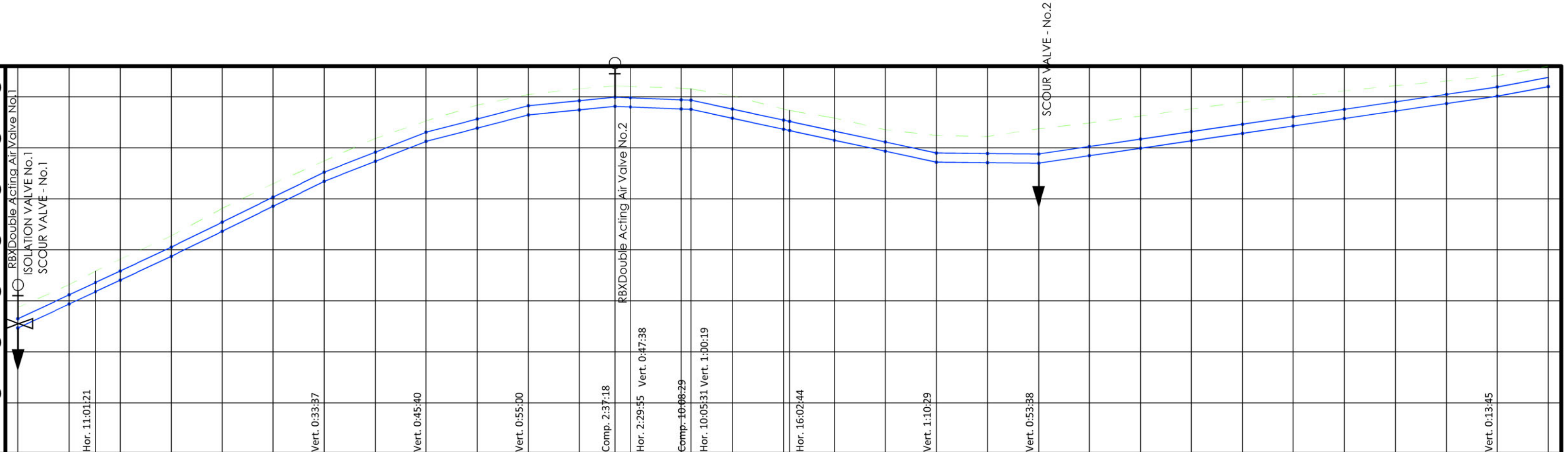
SCOUR VALVE CO-ORDINATES LIST (SYSTEM WGS 84) WG29					
POINT NAME	Y	X	Z(Msl)	INVERT LEVEL	CHAINGES
SCOUR VALVE No.1	119360.146	2780267.289	1001.874	998.500	1000.000

LONG SECTION VIEW: KLIPVOOR BULK WATER SUPPLY SCHEME: WP4 (SECTION 1) NODE 1 to NODE 4

SHEET 1

Alignment
SCALE : Vert 1 :250
Hor 1 :2500

DATUM : 970.00 msl



Chage(m)	Ground Level	Invert Level	Node Name	Length / Slope	Cover to Top of Pipe	Depth to Invert Level
0.00	984.35	982.35	START	0.00	1.10	2.00
50.00	986.60	984.69		50.05	1.01	1.91
75.96	987.92	985.91	Node1	76.04	1.08	2.01
100.00	989.09	987.03		100.11	1.15	2.05
150.00	991.37	989.37		150.16	1.10	2.00
200.00	994.06	991.82		200.22	1.34	2.24
250.00	996.50	994.27		250.28	1.33	2.23
300.00	998.72	996.72		300.34	1.10	2.00
350.00	1000.93	998.68		350.38	1.35	2.25
400.00	1002.64	1000.64		400.42	1.10	2.00
450.00	1004.19	1001.93		450.44	1.35	2.25
500.00	1005.23	1003.23		500.45	1.10	2.00
550.00	1005.80	1003.72		550.46	1.18	2.08
584.88	1006.07	1004.07	Node2	585.34	0.99	2.00
600.00	1006.03	1004.01		600.46	1.12	2.02
650.00	1005.85	1003.81		650.46	1.14	2.04
659.38	1005.78	1003.77	Node3	659.84	1.04	2.00
700.00	1005.11	1002.90		700.47	1.31	2.21
750.00	1003.81	1001.83		750.48	1.08	1.98
755.89	1003.67	1001.70	Node4	756.37	1.10	1.97
800.00	1002.93	1000.75		800.49	1.28	2.18
850.00	1001.78	999.68		850.50	1.21	2.11
900.00	1001.22	998.60		900.51	1.72	2.62
950.00	1001.12	998.55		950.51	1.67	2.57
1000.00	1001.87	998.50		1000.51	2.47	3.37
1050.00	1002.44	999.23		1050.52	2.31	3.21
1100.00	1003.12	999.96		1100.53	2.26	3.16
1150.00	1003.82	1000.69		1150.53	2.23	3.13
1200.00	1004.48	1001.42		1200.54	2.16	3.06
1250.00	1004.99	1002.15		1250.54	1.94	2.84
1300.00	1005.58	1002.88		1300.55	1.80	2.70
1350.00	1006.10	1003.61		1350.55	1.59	2.49
1400.00	1006.56	1004.34		1400.56	1.32	2.22
1450.00	1007.07	1005.07		1450.56	1.10	2.00
1500.00	1008.00	1006.00		1500.57	1.10	2.00

Link Type/Link Size: Grade X42,OD=920mm,T-10mm, 600 micron lining and 5mm Polymer Modified Bitumen Coating

Grade (%): 4.6787 | 4.9000 | 3.9200 | 2.5900 | 0.9896 | -2.1507 | -0.1000 | 1.4600

LONG SECTION VIEW: KLIPVOOR BULK WATER SUPPLY SCHEME: WP4 (SECTION 1) NODE 1 to NODE 4

FOR CONSTRUCTION PURPOSES

WHEN IN DOUBT - ASK ! ! !

NEW WATER MAINS
NEW WATER NODE
EXISTING WATER MAINS
NEW AIR VALVE
NEW SCOUR VALVE
NEW ISOLATION VALVE

LONGITUDINAL LEGEND:
NEW CONNECTION POINT
RESERVOIR
PUMP HOUSE
AIR VALVE
AIR VALVE WITH 600mm ACCESS MH
ISOLATING VALVE ISOLATING
SCOUR VALVE
REFLUX VALVE ELECTRIC POLE (EP)
TELEPHONE POLE (TP)
FENCE
SURVEY STATION
TREE
BEACON (BCN)
NODEPE LOCATOR TEST POINT (PLT)
METER
ROAD/RIVER CROSSING
CHAMBERS PLAN VIEW
AIR VALVE CHAMBER
SCOUR VALVE CHAMBER

LEGEND FOR LINE TYPES
NGL
BULK WATER SUPPLY INVERTLEVEL
TRENCH INVERT LEVEL

REFERENCE DRAWINGS

NUMBER	DESCRIPTION
	DRAWING INDEX
	GENERAL NOTES

Magalies Water

APPROVED: DATE:

REVISIONS :

REV	DATE	DRN	NOTES

PROJECT TITLE :
KLIPVOOR BULK WATER SUPPLY SCHEME: WP4

DRAWING TITLE :
LONGITUDINAL SECTION
START - Node1 to Node 4
CH0 TO CH1500

SIGNATURE : 01/03/2024
CHECKED : E. Vorkevisser — Pr. Eng. #20070187 Date
DESIGNED : L. Peter

DRAWN :
REG No : N/A

CLIENT PROJECT NO : RFB/MW/288/2023-24
PROJECT No : P0280C04
SCALE : As Shown
DATE : 2023/01/31
PAPER : A1
SHEET : 1 OF 25
PHASE : N.A
REV : C00
DRAWING No : P0280C04-2000-00