LEGEND

EXISTING:
- SEWERS CL AND M.H'S
- STORMWATER CL DRAIN
- WATER MAINS CL AND VALVES
- ELECTRICITY CL(OH)
- TELECOMMS. CL (OH)
- FIBRE OPTIC CL
- ROAD CENTERLINES
- ROAD EDGE
- ROAD RESERVE
- FENCE/BOUNDARY AND GATE

PROPOSED:
- UPGRADE ROAD EDGE
- TRANSMISSION PIPE CL
- AIR VALVE
- SCOUR VALVE
- ISOLATING VALVE
- METER

NOTE:

1. ALL SERVICES DEPICTED ON THE PLAN & LONG SECTION ARE APPROXIMATE POSITIONS OF EXPECTED SERVICES OBTAINED FROM SERVICE PROVIDERS RECORDS THAT MAY BE ENCOUNTERED BY THE CONTRACTOR ALONG THE ROUTE. ALL SERVICES ARE TO BE TRACED AND PROVED IN CONJUNCTION WITH EACH SERVICE PROVIDER AND NOT LESS THAN 14 WORKING DAYS PRIOR TO EXCAVATION TO AVOID CAUSING DAMAGE TO '"EXISTING SERVICES".
2. ALL SERVICES SHOWN ON PLAN AND LONG SECTION AND ALL ADDITIONAL SERVICES PROVIDED BY THE SERVICE PROVIDER(S) SHALL BE DEFINED AS "KNOWN SERVICES". NO COMPENSATION WILL BE PAID FOR DAMAGE CAUSED TO "KNOWN SERVICES".

SETTING OUT DATA

REF	Y	X
PI-B21	26369.075	3746566.580
PI-B22	26400.812	3746590.889
PI-B23	26424.050	3746608.688
PI-B24	26414.909	3746630.292
PI-B25	26470.043	3746653.785
PI-B26	26543.316	3746709.687
PI-B27	26583.796	3746738.343
PI-B28	26638.512	3746777.076
PI-B29	26734.512	3746850.462
PI-B30	26833.252	3746925.942

SETTING OUT DATA

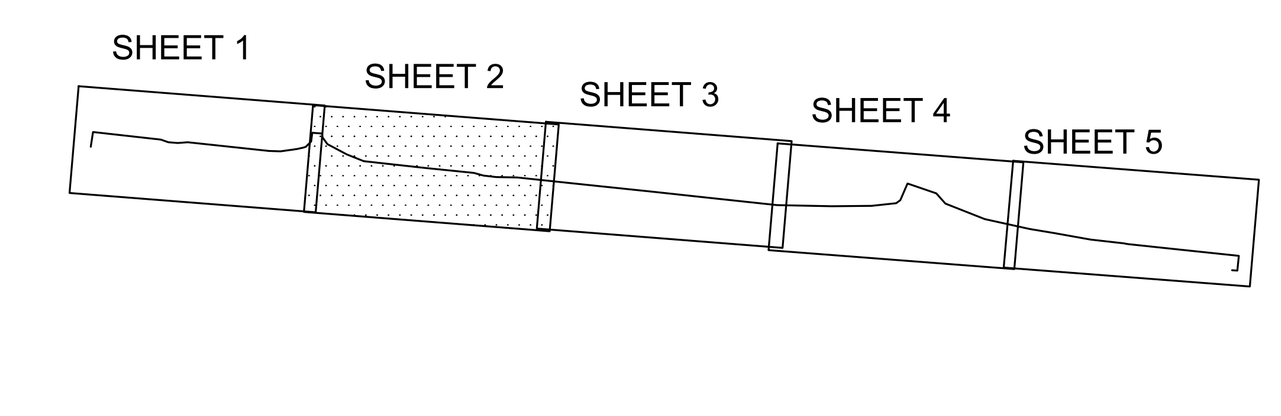
REF	Y	X
PI-B31	26849.210	3746935.892
PI-B32	26890.158	3746967.939
PI-B33	26942.753	3747016.682
PI-B34	26948.715	3747022.207

SETTING OUT CONTROL

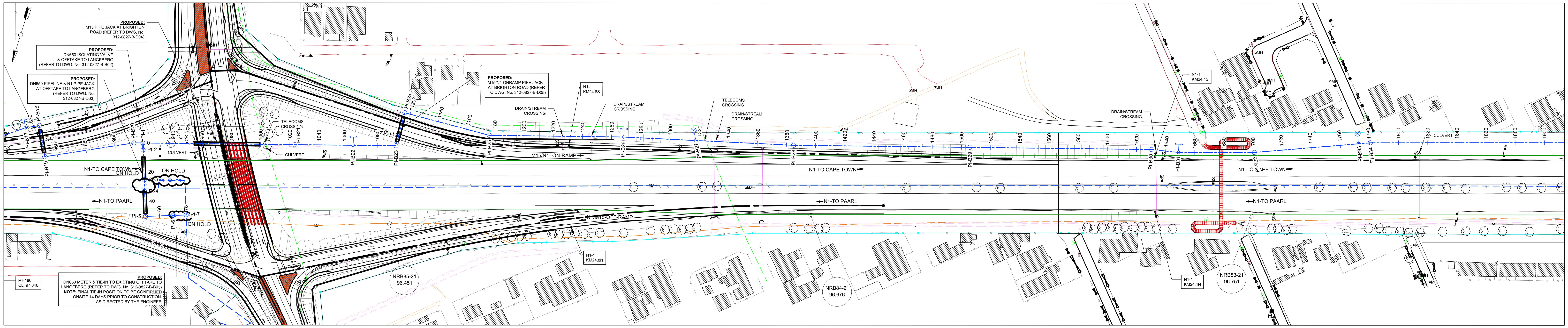
NAME	Y	X	Z	DESCRIPTION
NRB 85-21	26453.78	3746563.85	96.451	
NRB 84-21	26677.62	3746746.37	96.676	
NRB 83-21	26915.48	3746932.16	96.751	

NOTE:
1. SURVEY BASED ON LO 19, SOUTH AFRICAN SURVEY GRID, WGS84 DATUM; 18 TO 20d E
2. THE ABOVE DATA IS UNIQUE TO THIS PROJECT ONLY. THE CONTRACTOR IS PROHIBITED FROM USING FOREIGN CONTROL BEACONS.

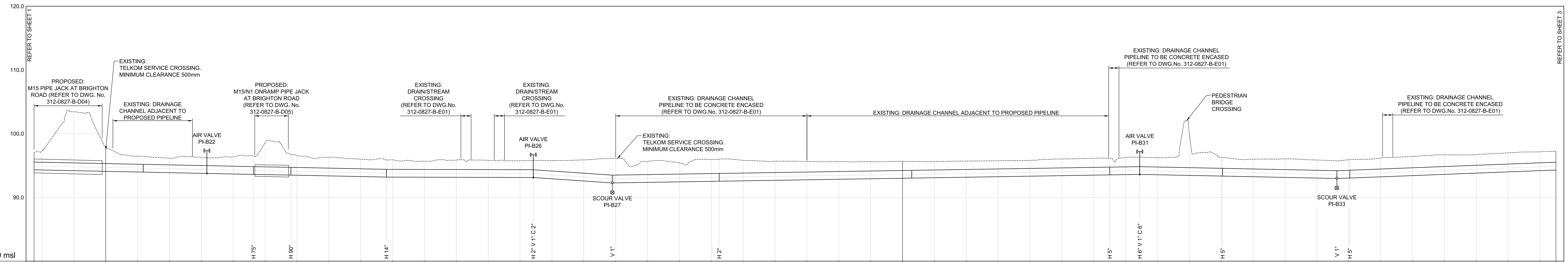
NOTE:
ALL DIMENSIONS TO BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF WORKS. REFER ANY DISCREPANCIES TO THE ENGINEER.



KEYPLAN



PLAN VIEW
SCALE - 1:1000



VER- 1:250
HOR- 1:1000

DATUM : 80.000 msl

PEG DISTANCE AT CH (m)	GROUND LEVEL AT CH	INVERT LEVEL AT CH	DEPTH TO IL AT CH (m)
955	97.0	94.3	2.7
960	97.3	94.3	3.0
980	103.4	94.2	9.2
1000	97.9	94.1	3.8
1020	96.5	94.0	2.5
1040	96.2	93.9	2.3
1060	96.3	93.8	2.5
1080	96.3	93.7	2.7
1100	98.6	93.6	5.0
1120	96.6	93.5	3.1
1140	96.3	93.4	2.9
1160	96.0	93.3	2.7
1180	95.9	93.2	2.7
1200	95.7	93.2	2.5
1220	95.9	93.2	2.7
1240	95.8	93.2	2.7
1260	95.7	93.1	2.6
1280	95.8	92.9	2.8
1300	95.9	92.6	3.3
1320	96.2	92.3	3.9
1340	95.7	92.4	3.3
1360	95.4	92.5	3.0
1380	95.9	92.5	3.4
1400	95.8	92.6	3.2
1420	95.7	92.7	3.0
1440	95.6	92.8	2.9
1460	95.6	92.9	2.8
1480	95.6	92.9	2.7
1500	95.7	93.0	2.7
1520	95.6	93.1	2.5
1540	95.7	93.2	2.5
1560	95.7	93.3	2.5
1580	95.8	93.3	2.5
1600	96.0	93.4	2.6
1620	96.1	93.5	2.6
1640	96.3	93.6	2.7
1660	96.2	93.6	2.7
1680	100.0	93.5	6.5
1700	96.3	93.4	2.9
1720	96.0	93.3	2.7
1740	96.0	93.2	2.9
1760	95.9	93.1	2.8
1780	95.9	93.0	2.9
1800	96.2	93.2	2.9
1820	96.4	93.4	3.0
1840	96.7	93.6	3.1
1860	96.7	93.8	2.9
1880	97.0	94.0	3.0
1900	97.2	94.2	2.9
1910	97.2	94.3	2.9

PI REFERENCE	PEG DISTANCE AT PI (m)	GROUND LEVEL AT PI	INVERT LEVEL AT PI	DEPTH TO IL AT PI (m)	GRADE 1: (to next PI)	CUMULATIVE LENGTH
PI-B20	913.2		94.6	2.7	- 191.288	913.22
PI-B21	1023.5	96.4	94.0	2.4	- 191.204	1023.54
PI-B22	1063.5	96.2	93.8	2.4	- 186.54	1063.51
PI-B23	1092.7	96.5	93.6	2.9	- 219.828	1092.79
PI-B24	1116.2	96.8	93.5	3.3	- 191.314	1116.24
PI-B25	1176.1	95.9	93.2	2.7	- 1531.897	1176.18
PI-B26	1268.3	95.8	93.1	2.6	- 57.931	1268.34
PI-B27	1317.9	96.1	92.3	3.9	246.958	1317.94
PI-B28	1384.9	96.0	92.6	3.5	246.958	1384.98
PI-B29	1505.8	95.6	93.0	2.6	246.958	1505.82
PI-B30	1630.1	96.1	93.5	2.6	246.958	1630.10
PI-B31	1648.9	96.3	93.6	2.7	- 194.901	1648.91
PI-B32	1700.9	96.3	93.4	2.9	- 194.901	1700.91
PI-B33	1772.6	95.7	93.0	2.7	121.095	1772.62
PI-B34	1780.7	95.9	93.1	2.9	102.602	1780.75
PI-B35	2008.2		95.3	2.9		

PIPE DESCRIPTION: DN1200 x 10mm THICK x GRADE X42, CEMENT MORTAR LINED, CEMENT MORTAR SHEATHING, CONTINUOUSLY WELDED STEEL PIPE

LONGITUDINAL SECTION
SCALE - V 1:250
H 1:1000

No.	DATE	REVISION	CONSULT. ENG.
V1	27/11/2023	ORIGINAL VERSION	

CONSTRUCTION RECORD (AS-BUILT)
WORKS CONTRACT ENGINEER
Name :
Prof. Reg. No. :
Date :
SANRAL PROJECT MANAGER
Name :
Date :

HEAD OFFICE
48 Tambotie Avenue
Val de Grace
Pretoria
0184

PO Box 415
Pretoria 0001
South Africa

Tel: (012) 844 8000

SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD
Reg.No.1998/009584/30
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

WASTERN REGION
1 Havenga Street
Oakdale
Bellville
7530

Private Bag X19
Bellville
7535
6034

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 THE NATIONAL ROUTE 1 SECTION 1 FROM OLD OAK INTERCHANGE (KM 18.90) TO KOELENOFF INTERCHANGE (KM 33.00)

DRAWING DESCRIPTION
N1 - WEMMERSHOEK PIPELINE RELOCATION
SECTION B - KRAAIFONTEIN TO BRACKENFELL
DN1200 PLAN AND LONGITUDINAL SECTION

SCALE : AS SHOWN — SHEET 2 OF 5

PROJECT NUMBER	N.001-010-2021/1	
DRAWING LOCATION DATA	START	END
ROUTE	N01	N01
SECTION	01	01
DRAWING km DISTANCE	18.90	33.00
DRAWING TYPE	ROADS-UTILITIES	
BRIDGE/STRUCTURE No.	-	
CONSULTANT DRAWING No.	312-0827-B-A02	VER
SANRAL DOCUMENT #	-	V 1

ORIGINAL SCALE: 1 : 100 (1m 0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m)