LEGEND

EXISTING:

Item
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:

Item
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-A60	23948.036	3745240.960
PI-A61	24134.058	3745300.791
PI-A62	24219.909	3745322.225
PI-A63	24217.684	3745336.363
PI-A64	24272.832	3745351.307
PI-A65	24335.630	3745368.324
PI-A66	24443.963	3745397.681
PI-A67	24550.552	3745402.894
PI-A68	24592.809	3745404.961
PI-A69	24612.077	3745390.950

SETTING OUT DATA

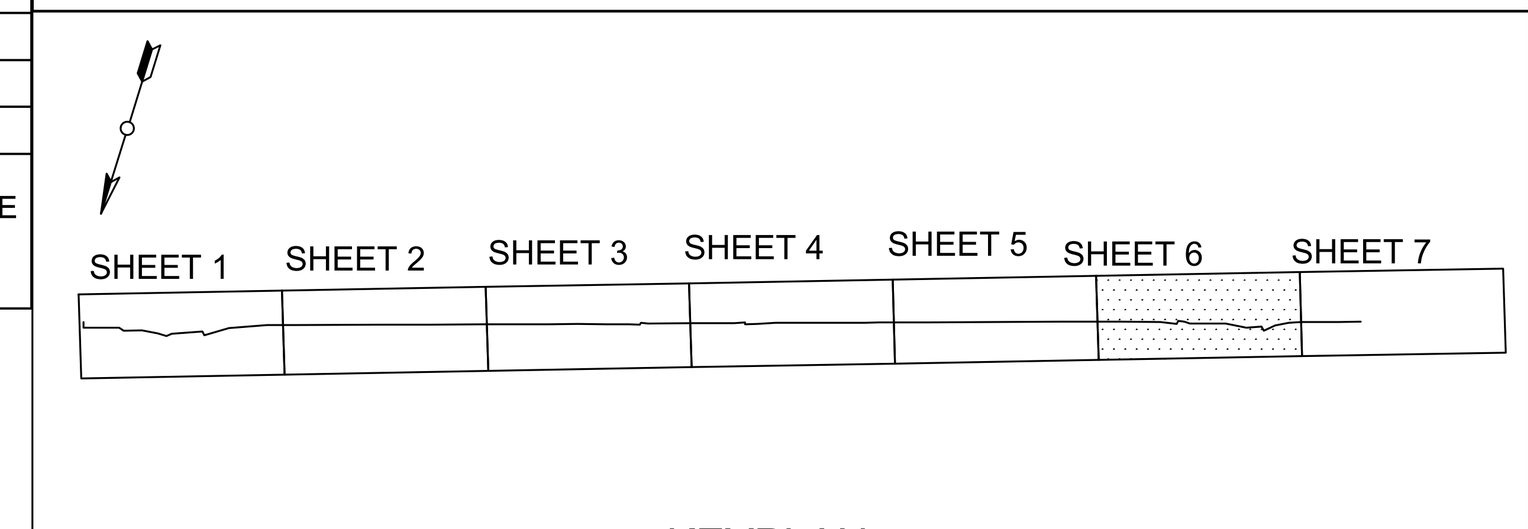
REF	Y	X
PI-A70	24623.839	3745407.125
PI-A71	24644.090	3745429.493
PI-A72	24674.127	3745458.548
PI-A73	24702.203	3745476.030
PI-A74	24720.659	3745486.951
PI-A75	24743.520	3745500.479

SETTING OUT CONTROL

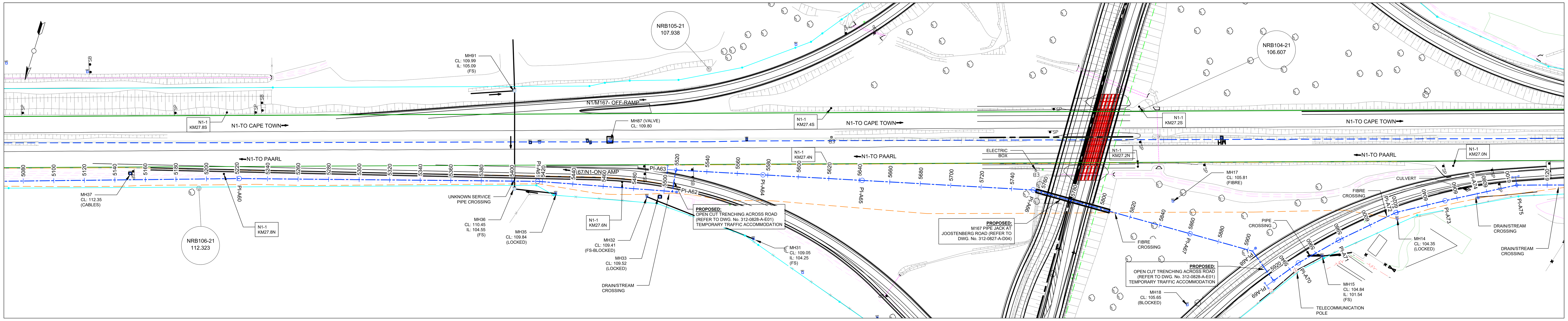
NAME	Y	X	Z	DESCRIPTION
NRB 106-21	23924.900	3745226.480	112.323	
NRB 105-21	24217.560	3745405.790	107.938	
NRB 104-21	24495.050	3745469.930	106.607	

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.

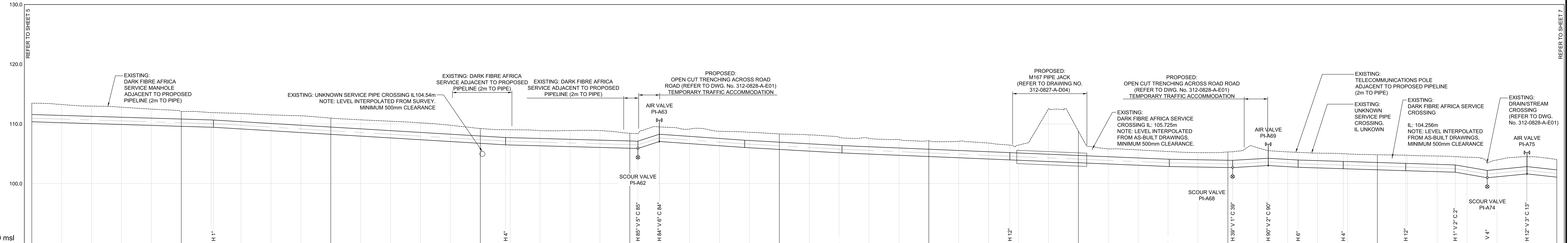
NOTE:
ALL DIMENSIONS TO BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF WORKS. REFER ANY DISCREPANCIES TO THE ENGINEER.



KEYPLAN



PLAN VIEW
SCALE - 1:1000



VER- 1: 250
HOR- 1: 1000

DATUM : 90.000 msl

PEG DISTANCE AT CH (m)	5100	5120	5140	5160	5180	5200	5220	5240	5260	5280	5300	5320	5340
GROUND LEVEL AT CH	113.5	113.3	113.0	112.8	112.5	112.1	111.9	111.8	111.5	111.4	111.0	110.7	110.5
INVERT LEVEL AT CH	110.4	110.2	110.1	109.9	109.8	109.6	109.5	109.2	108.9	108.6	108.3	108.0	107.7
DEPTH TO IL AT CH (m)	3.1	3.0	2.9	2.9	2.7	2.5	2.4	2.6	2.6	2.8	2.7	2.7	2.8

PEG DISTANCE AT CH (m)	5360	5380	5400	5420	5440	5460	5480	5500	5520	5540	5560	5580	5600
GROUND LEVEL AT CH	110.2	109.8	109.2	109.0	108.9	108.9	108.9	108.4	109.5	109.1	108.8	108.6	108.3
INVERT LEVEL AT CH	107.4	107.1	106.8	106.5	106.4	106.2	106.1	105.9	107.1	106.7	106.4	106.0	105.7
DEPTH TO IL AT CH (m)	2.8	2.7	2.5	2.5	2.5	2.7	2.8	2.5	2.4	2.4	2.4	2.6	2.6

PEG DISTANCE AT CH (m)	5620	5640	5660	5680	5700	5720	5740	5760	5780	5800	5820	5840	5860
GROUND LEVEL AT CH	108.2	107.8	107.6	107.4	107.2	107.1	106.8	106.5	112.5	108.8	105.8	105.7	105.4
INVERT LEVEL AT CH	105.5	105.2	105.0	104.8	104.6	104.3	104.1	103.9	103.7	103.5	103.3	103.1	102.9
DEPTH TO IL AT CH (m)	2.7	2.6	2.6	2.6	2.6	2.7	2.7	2.5	8.8	5.3	2.5	2.6	2.5

PEG DISTANCE AT CH (m)	5880	5900	5920	5940	5960	5980	6000	6020	6040	6060	6080	6100	6120
GROUND LEVEL AT CH	105.2	105.3	106.0	105.3	105.1	105.0	104.8	104.8	104.6	104.4	104.0	104.5	104.1
INVERT LEVEL AT CH	102.8	102.7	102.9	102.9	102.7	102.5	102.3	102.2	102.0	101.6	101.2	101.6	101.1
DEPTH TO IL AT CH (m)	2.4	2.6	3.1	2.5	2.5	2.5	2.5	2.6	2.6	2.9	2.8	2.9	2.9

PI REFERENCE	PI-A59		PI-A60		PI-A61		PI-A62		PI-A63		PI-A64		PI-A65		PI-A66		PI-A67
PEG DISTANCE AT PI (m)	4924.6		5221.5		5416.9		5505.4		5519.7		5576.9		5641.9		5754.2		5860.9
GROUND LEVEL AT PI			111.9		109.1		108.4		109.5		108.7		107.6		106.5		105.4
INVERT LEVEL AT PI	111.7		109.5		106.5		105.9		107.1		106.1		105.2		104.0		102.9
DEPTH TO IL AT PI (m)	3.1		2.4		2.5		2.5		2.4		2.6		2.5		2.5		2.5
GRADE 1:		- 132.859		- 66.514		- 145.458		12.317		- 56.957		- 71.854		- 96.045		- 95.994	
CUMULATIVE LENGTH	4894.86		5191.78		5387.21		5475.70		5490.05		5547.20		5612.27		5724.52		5831.24

PI REFERENCE	PI-A67		PI-A68		PI-A69		PI-A70		PI-A71		PI-A72		PI-A73		PI-A74		PI-A75		PI-A76
PEG DISTANCE AT PI (m)			5903.2		5927.0		5947.0		5977.2		6019.0		6052.0		6073.5		6100.1		6162.5
GROUND LEVEL AT PI			105.4		105.5		105.2		105.0		104.8		104.5		103.4		104.5		
INVERT LEVEL AT PI			102.7		103.0		102.8		102.5		102.2		101.9		101.0		101.6		
DEPTH TO IL AT PI (m)			2.7		2.5		2.5		2.5		2.6		2.6		2.4		2.9		2.9
GRADE 1:		- 232.477		68.323		- 67.729		- 127.192		- 127.192		- 127.192		- 23.213		41.201		- 36.733	
CUMULATIVE LENGTH			5873.55		5897.37		5917.37		5947.55		5989.34		6022.41		6043.88		6070.45		

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 A - KOELENHOF TO KRAAIFONTEIN
DN1200 PLAN AND LONGITUDINAL SECTION

SCALE : AS SHOWN — SHEET 6 OF 7

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.	312-0828-A-A06	VER
SANRAL DOCUMENT #	-	V 1

ORIGINAL SCALE: 1 : 100