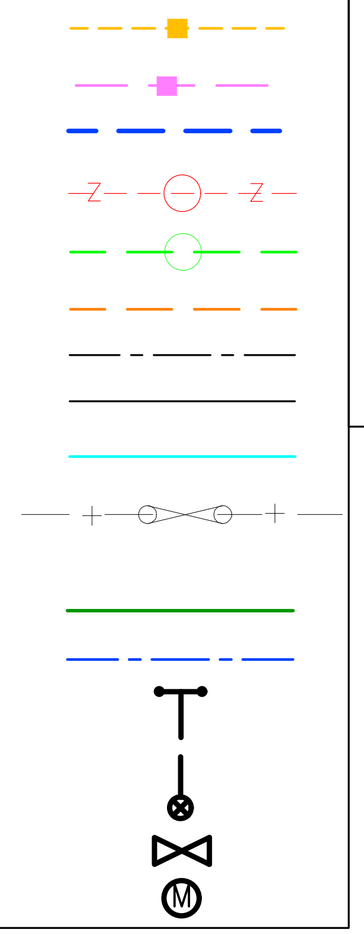
LEGEND

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-B41	27814.853	3747708.132
PI-B42	27874.267	3747761.704
PI-B43	27925.517	3747807.914
PI-B44	27969.517	3747851.724
PI-B45	27994.714	3747876.813
PI-B46	28014.925	3747854.566
PI-B47	28033.264	3747868.919
PI-B48	28096.264	3747918.225
PI-B49	28238.013	3748029.162
PI-B50	28367.392	3748130.418

SETTING OUT DATA

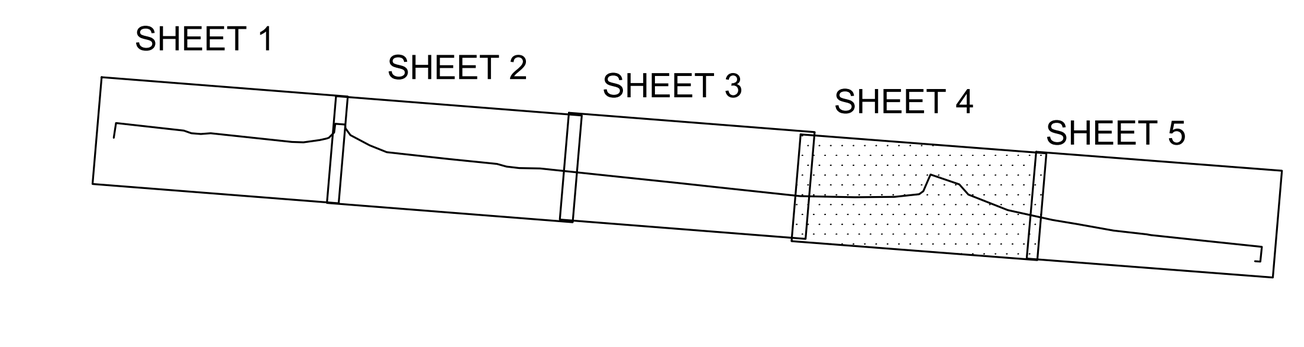
REF	Y	X
PI-B51	28351.183	3748156.647
PI-B52	28493.838	3748248.752

SETTING OUT CONTROL

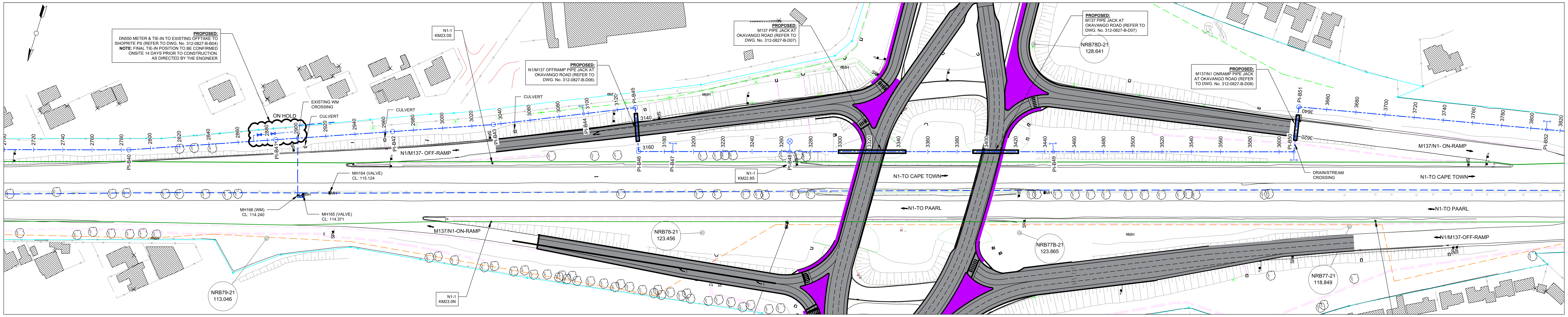
NAME	Y	X	Z	DESCRIPTION
NRB 79-21	-3747651	-27851.43	113.046	
NRB 78-21	-3747838	-28083.36	123.456	
NRB 78D-21	-3748079	-28182.25	128.641	
NRB 77-21	-3748114	-28428.74	118.849	
NRB 77B-21	-3747971	-28253.89	123.865	

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.

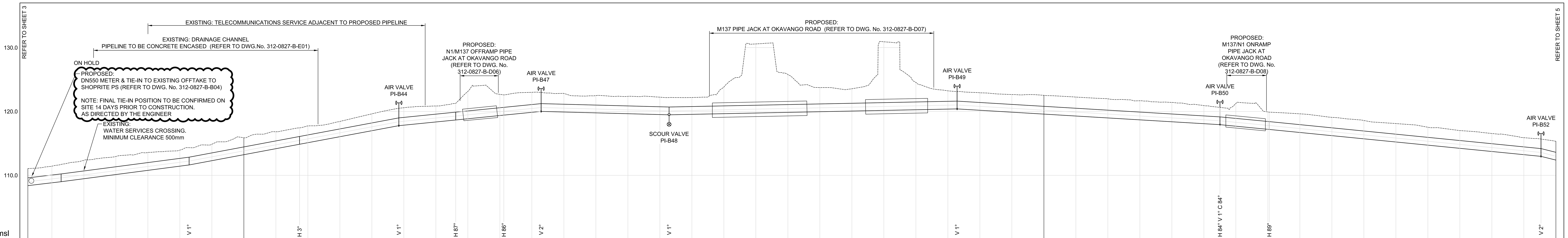


KEYPLAN



PLAN VIEW

SCALE - 1:1000



VER- 1:250
HOR- 1:1000

DATUM : 100.000 msl

PEG DISTANCE AT CH (m)	2865	2880	2900	2920	2940	2960	2980	3000	3020	3040	3060	3080	3100	3120	3140	3160	3180
GROUND LEVEL AT CH	111.1	111.4	112.4	113.0	113.6	114.0	114.9	115.9	116.8	117.7	118.4	119.6	120.6	120.9	123.2	122.7	123.0
INVERT LEVEL AT CH	108.4	108.8	109.5	110.1	110.8	111.5	112.3	113.2	114.2	115.1	116.1	117.0	117.9	118.4	118.9	119.4	119.9
DEPTH TO IL AT CH (m)	2.7	2.6	2.9	2.8	2.8	2.5	2.6	2.6	2.6	2.6	2.4	2.6	2.7	2.5	4.3	3.3	3.1

PEG DISTANCE AT CH (m)	3200	3220	3240	3260	3280	3300	3320	3340	3360	3380	3400	3420	3440	3460	3480	3500
GROUND LEVEL AT CH	122.8	122.5	122.4	122.2	122.2	123.8	130.6	125.8	123.7	123.6	130.9	124.6	123.2	122.9	122.7	122.5
INVERT LEVEL AT CH	119.9	119.8	119.7	119.5	119.6	119.7	119.8	119.9	120.0	120.1	120.2	120.3	120.4	120.2	119.9	119.6
DEPTH TO IL AT CH (m)	2.9	2.7	2.7	2.7	2.6	4.2	10.8	5.9	3.8	3.5	10.7	4.3	2.8	2.7	2.8	2.9

PEG DISTANCE AT CH (m)	3520	3540	3560	3580	3600	3620	3640	3660	3680	3700	3720	3740	3760	3780	3800	3820
GROUND LEVEL AT CH	122.3	122.0	121.7	121.4	120.9	121.3	119.9	119.6	119.1	118.6	118.1	117.5	117.0	116.6	115.9	115.3
INVERT LEVEL AT CH	119.3	119.0	118.7	118.4	118.1	117.7	117.2	116.7	116.2	115.7	115.2	114.7	114.2	113.8	113.3	112.4
DEPTH TO IL AT CH (m)	3.0	3.0	3.0	3.0	2.8	3.6	2.7	2.9	2.9	2.9	2.9	2.8	2.8	2.8	2.6	2.9

PI REFERENCE	PEG DISTANCE AT PI (m)	GROUND LEVEL AT PI	INVERT LEVEL AT PI	DEPTH TO IL AT PI (m)	CUMULATIVE LENGTH
PI-B40	2785.2		106.1	2.7	2785.33
PI-B41	2885.8	111.7	109.0	2.7	2885.98
PI-B42	2965.8	114.3	111.6	2.7	2966.02
PI-B43	3034.8	117.4	114.9	2.6	3035.10
PI-B44	3096.9	120.5	117.8	2.7	3097.26
PI-B45	3132.4	121.3	118.7	2.6	3132.83
PI-B46	3162.5	122.6	119.4	3.2	3162.90
PI-B47	3185.8	123.0	120.0	3.0	3186.19
PI-B48	3265.8	122.2	119.5	2.7	3266.19
PI-B49	3445.8	123.1	120.4	2.7	3446.20
PI-B50	3610.1	120.6	118.0	2.7	3610.51
PI-B51	3640.9	119.9	117.2	2.7	3641.35
PI-B52	3810.7	115.7	113.0	2.7	3811.20
PI-B53	3906.3		106.9	2.9	

GRADE 1:	
PI-B40 – PI-B41	34.059
PI-B41 – PI-B42	30.495
PI-B42 – PI-B43	21.295
PI-B43 – PI-B44	21.295
PI-B44 – PI-B45	39.92
PI-B45 – PI-B46	39.92
PI-B46 – PI-B47	39.92
PI-B47 – PI-B48	- 150.711
PI-B48 – PI-B49	194.026
PI-B49 – PI-B50	- 66.536
PI-B50 – PI-B51	- 41.369
PI-B51 – PI-B52	- 40.294
PI-B52 – PI-B53	- 15.789

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 4 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-A04		VER
SANRAL DOCUMENT #	-		V 1

