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

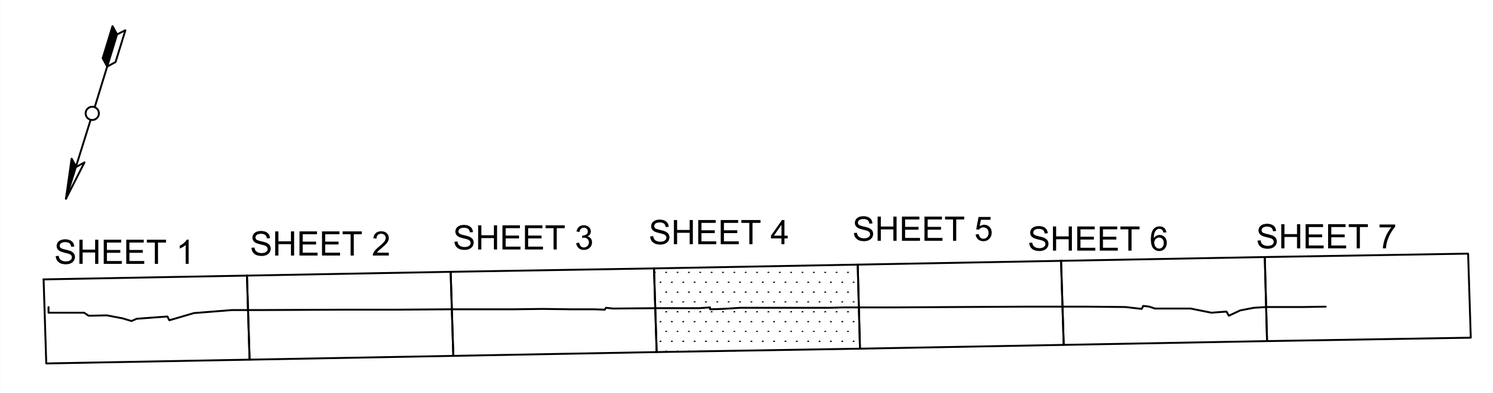
REF	Y	X
PI-A42	22041.913	3744599.318
PI-A43	22162.758	3744645.151
PI-A44	22166.648	3744635.823
PI-A45	22222.898	3744657.578
PI-A46	22260.264	3744670.315
PI-A47	22310.037	3744687.281
PI-A48	22643.296	3744800.880
PI-A49	22731.124	3744832.329
PI-A50	22799.162	3744856.691
PI-A51	22838.121	3744867.204

SETTING OUT CONTROL

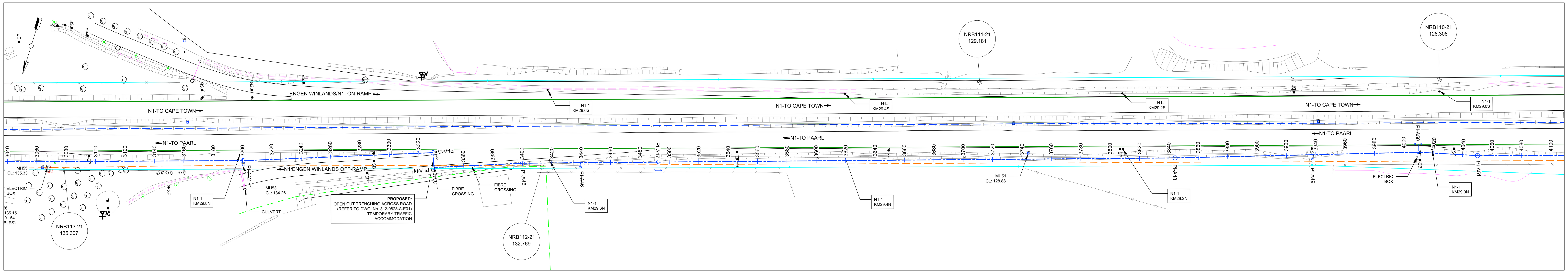
NAME	Y	X	Z	DESCRIPTION
NRB 113-21	21928.120	3744555.330	135.307	
NRB 112-21	22236.380	3744659.260	132.769	
NRB 111-21	22500.820	3744807.790	129.181	
NRB 110-21	22797.200	3744907.990	126.306	

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.

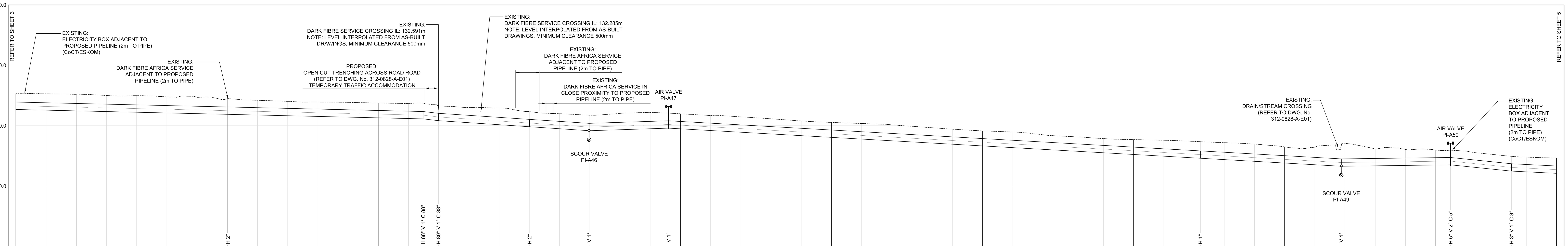
NOTE:
ALL DIMENSIONS TO BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF WORKS. REFER ANY DISCREPANCIES TO THE ENGINEER.



KEYPLAN



PLAN VIEW
SCALE - 1:1000



VER- 1: 250
HOR- 1: 1000

DATUM : 110.000 msl

PEG DISTANCE AT CH (m)	GROUND LEVEL AT CH	INVERT LEVEL AT CH	DEPTH TO IL AT CH (m)
3060	135.3	132.7	2.6
3080	135.3	132.6	2.7
3100	135.2	132.5	2.7
3120	135.0	132.4	2.6
3140	135.0	132.2	2.7
3160	134.8	132.1	2.7
3180	134.7	132.0	2.7
3200	134.5	131.9	2.6
3220	134.2	131.8	2.4
3240	134.0	131.7	2.4
3260	133.9	131.6	2.4
3280	133.9	131.4	2.4
3300	133.8	131.3	2.4
3320	133.7	131.2	2.5
3340	133.3	130.8	2.4
3360	133.0	130.5	2.5
3380	132.9	130.2	2.7
3400	132.3	129.8	2.5
3420	132.0	129.5	2.5
3440	131.7	129.2	2.6
3460	132.0	129.4	2.7
3480	132.2	129.5	2.7
3500	132.0	129.5	2.5
3520	131.7	129.2	2.5
3540	131.5	128.9	2.5
3560	131.1	128.6	2.5
3580	130.8	128.4	2.4
3600	130.5	128.1	2.5
3620	130.4	127.8	2.6
3640	130.2	127.5	2.6
3660	129.8	127.2	2.6
3680	129.4	127.0	2.5
3700	129.1	126.7	2.5
3720	129.0	126.4	2.6
3740	128.5	126.1	2.4
3760	128.2	125.8	2.4
3780	127.9	125.5	2.3
3800	127.7	125.3	2.5
3820	127.6	125.0	2.6
3840	127.4	124.7	2.7
3860	127.2	124.4	2.8
3880	127.0	124.1	2.8
3900	126.5	123.8	2.7
3920	126.5	123.6	2.9
3940	127.1	123.3	3.8
3960	126.2	123.4	2.8
3980	126.1	123.4	2.6
4000	126.0	123.5	2.5
4020	125.8	123.3	2.5
4040	125.2	122.8	2.4
4060	124.8	122.4	2.4
4080	124.7	122.1	2.5

PI REFERENCE	PEG DISTANCE AT PI (m)	GROUND LEVEL AT PI	INVERT LEVEL AT PI	DEPTH TO IL AT PI (m)	CUMULATIVE LENGTH
PI-A41	2867.3		133.8	2.6	2837.43
PI-A42	3200.4	134.5	131.9	2.6	3170.54
PI-A43	3329.7	133.7	131.1	2.6	3299.78
PI-A44	3339.8	133.3	130.9	2.4	3309.89
PI-A45	3400.1	132.3	129.8	2.5	3370.21
PI-A46	3439.6	131.7	129.2	2.6	3409.70
PI-A47	3492.2	132.1	129.6	2.5	3462.28
PI-A48	3844.2	127.4	124.6	2.7	3814.41
PI-A49	3937.5	126.8	123.3	3.5	3907.70
PI-A50	4009.8	126.0	123.5	2.4	3979.97
PI-A51	4050.2	124.9	122.5	2.4	4020.34
PI-A52	4195.3			2.5	

GRADE 1: (From)	(To)	Grade
PI-A41	PI-A42	- 172.823
PI-A42	PI-A43	- 172.823
PI-A43	PI-A44	- 34.181
PI-A44	PI-A45	- 59.889
PI-A45	PI-A46	- 59.889
PI-A46	PI-A47	124.547
PI-A47	PI-A48	- 70.681
PI-A48	PI-A49	- 70.681
PI-A49	PI-A50	310.56
PI-A50	PI-A51	- 38.856
PI-A51	PI-A52	- 81.076

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

ORIGINAL SCALE: 1 : 100

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 4 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-A04	VER
SANRAL DOCUMENT #	-	V 1