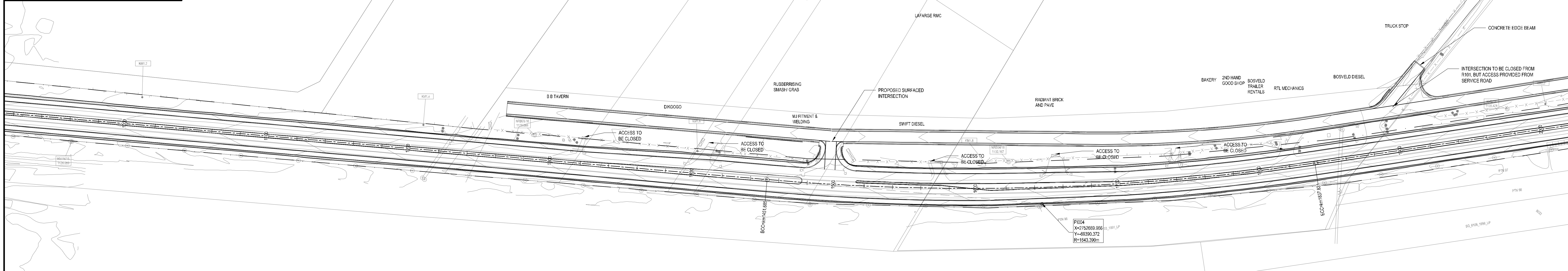


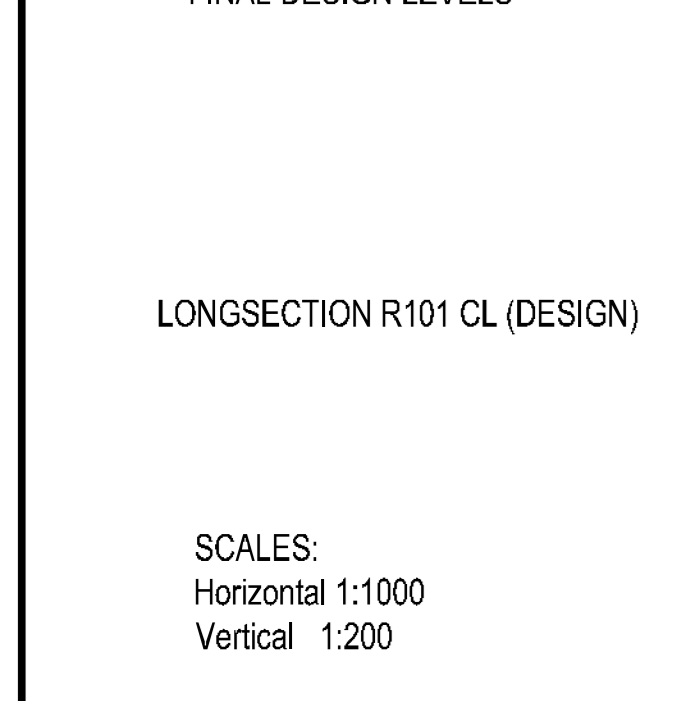
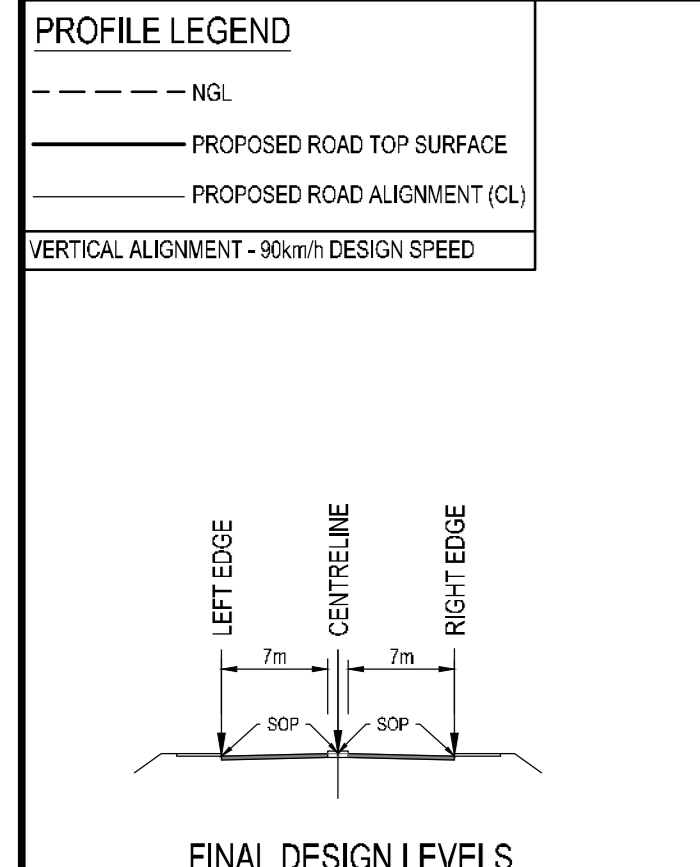
REVISION No. DATE REVISION CONSULT. ENG.	G 26/04/2021 RIGHT TURNING LANES ADDED D.v.d.M F 23/03/2021 STRIPMAP UPDATED D.v.d.M E 25/02/2021 VERTICAL REVISED D.v.d.M D 03/12/2020 VERTICAL REVISED D.v.d.M C 13/09/2020 HORIZONTAL REVISED TO 100KM/H @MAX 8% D.v.d.M B 31/01/2022 HORIZONTAL REVISED D.v.d.M A 18/12/2019 ORIGINAL VERSION D.v.d.M	CONSTRUCTION RECORD WORKS CONTRACT ENGINEER Name: _____ Date: _____ SANRAL PROJECT MANAGER Name: _____ Date: _____	WESTERN CAPE Cape Town Block B2, Edison Square c/o Edison Way & Century Avenue Century City, 7441 P O Box 86 Century City, 7446 E-mail: cpi@bviwcc.co.za Website: www.bviwcc.co.za Tel: +27 (21) 527 7000 Fax: +27 (21) 527 7001	DESIGNED BY NAME: D.v.d.MERNE Prof. Reg. No. 20120196 CHECKED BY: _____ NAME: D.v.d.MERNE Prof. Reg. No. 20120196 DRAWN BY: _____ NAME: SS. CLAMINI	CONSULTANT APPROVAL Name: ANDRIE GREYLING Prof. Reg. No. 20060025	HEAD OFFICE 46 Tambora Avenue Val de Grace Pretoria 0184 PO Box 415 Pretoria 0001 South Africa Tel: (012) 844 8000	NORTHERN REGION 30 Ida Street Menlo Park Pretoria 6025 Private Bag X17 Lynnwood Ridge 0040 Tel: (012) 426 6200	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 HOWSOEVER ARISING for CEO: SA NATIONAL ROADS AGENCY SOC LTD Date: _____	PROJECT DESCRIPTION IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)	PROJECT NUMBER R-101-080-2019/1	DRAWING LOCATION DATA ROUTE: 2 SECTION: 8 DRAWING TYPE: PLAN & PROFILE BRIDGE/STRUCTURE No.: N/A CONSULTANT DRAWING No.: PD SANRAL DOCUMENT #: 33532.00-110-01	START : 2 END : 2 KM 0.0 : 8 KM 1.00 : 8 PLAN & PROFILE N/A VER G
	DRAWING NAME PLAN & PROFILE										SCALE : 1:1000	SHEET 01 OF 27

33532.00-110 (BELA-BELA).DWG

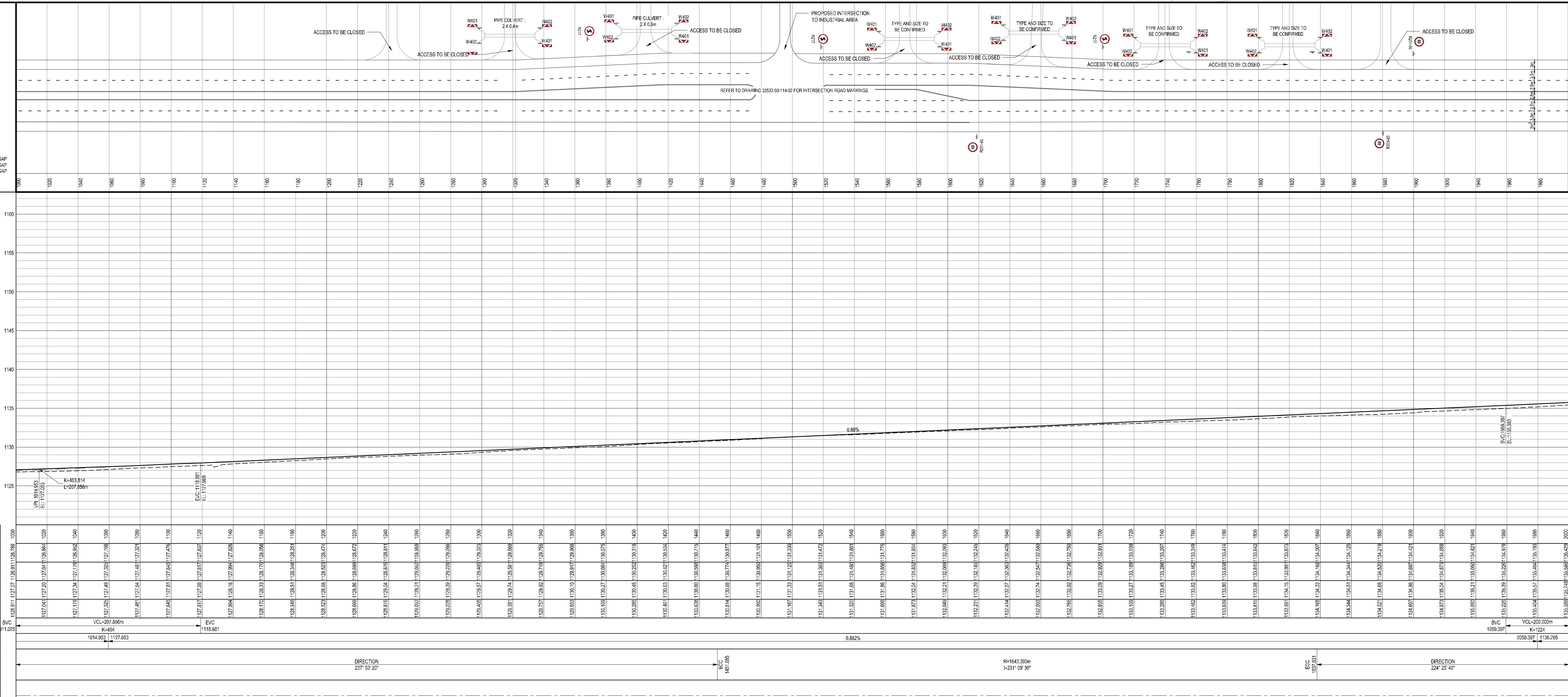
SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCELINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREET LIGHT



SYMBOL	DESCRIPTION	
	PROPOSED CULVERT	
	EXISTING CULVERT	
	PROPOSED GUARDRAIL	
	EXISTING GUARDRAIL	
	EXISTING FENCE LINE	
	EXISTING TELEPHONE LINES	
	EXISTING STREET LIGHTS	
	ROAD SIGNS	
	W401 (80x150)	
	W402 (80x150)	
	ROAD MARKINGS (REF. SARTS)	
CODE	THICKNESS / COLOUR	CONFIGURATION
WMS STANDARD	100mm WHITE	4.0m LINE & 6.0m GAP
WMS STANDARD	300mm WHITE	2.0m LINE & 4.0m GAP
OWS STANDARD	100mm WHITE	2.0m LINE & 4.0m GAP
PM1	100mm WHITE	SOLID LINE
PM1.1	150mm YELLOW	SOLID LINE
PM1.2	150mm WHITE	SOLID LINE



DISTANCE (m)	GROUND LEVELS ON CL	FINAL DESIGN ROAD LEVELS	VERTICAL PROFILE GRADES	HORIZONTAL ALIGNMENT	SUPERELEVATION
1100	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1120	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1140	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1160	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1180	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1200	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1220	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1240	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1260	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1280	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1300	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1320	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1340	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1360	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1380	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1400	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1420	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1440	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1460	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1480	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1500	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1520	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1540	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1560	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1580	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1600	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1620	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1640	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1660	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1680	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1700	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1720	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1740	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1760	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1780	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1800	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1820	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1840	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1860	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1880	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1900	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1920	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1940	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
1960	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT
1980	1127.04	1127.04	0.88%	237° 52' 27"	LEFT
2000	1127.04	1127.04	0.88%	237° 52' 27"	RIGHT



No.	DATE	REVISION	CONSULT. ENG.
G	26/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
F	23/03/2021	STRIPMAP UPDATED	D.v.d.M
E	25/02/2021	VERTICAL REVISED	D.v.d.M
D	03/12/2020	VERTICAL REVISED	D.v.d.M
C	13/09/2020	HORIZONTAL REVISED TO 100KM/H @ MAX 8%	D.v.d.M
B	31/01/2020	HORIZONTAL REVISED	D.v.d.M
A	18/12/2019	ORIGINAL VERSION	D.v.d.M

CONSTRUCTION RECORD	
WORKS CONTRACT ENGINEER	Name: _____
SANRAL PROJECT MANAGER	Name: _____

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Cape Town
Block B2, Edison Square
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Fax: +27 (21) 527 7001

Sanral
50 YEARS CELEBRATION
EST 1967 8017
• ENGINEERING • PROCUREMENT • MANAGEMENT
Registration No. 1998/001/5767

DESIGNED BY		CONSULTANT APPROVAL	
NAME	D.v.d.MERNE	NAME	ANDRIE GREYLING
Prof. Reg. No.	20120196	Prof. Reg. No.	20060025
CHECKED BY		DRAWN BY	
NAME	D.v.d.MERNE	NAME	SS. CLAMINI
Prof. Reg. No.	20120196	NAME	

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SANRAL
BUILDING SOUTH AFRICA
THROUGH BETTER ROADS

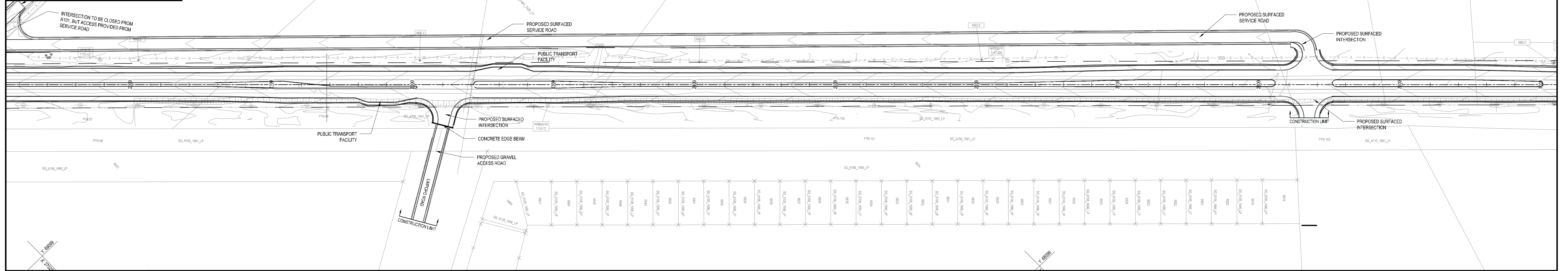
NORTHERN REGION
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Menlo Park
Pretoria
6025
Private Bag X17
Lynnwood Ridge
0044
Tel: (012) 426 6200

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 HOWSOEVER ARISING.
for CEO: SA NATIONAL ROADS AGENCY SOC. LTD.
Date: _____

PROJECT DESCRIPTION		PROJECT NUMBER	
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)		R-101-080-2019/1	
DRAWING NAME		DRAWING LOCATION DATA	
PLAN & PROFILE		ROUTE	START END
		SECTION	2 2
		DRAWING TYPE	8 8
		DRAWING km DISTANCE	KM1.00 KM2.00
		BRIDGE/STRUCTURE No.	N/A
		CONSULTANT DRAWING No.	33532.00-110-02
		SANRAL DOCUMENT #	
SCALE: 1:1000		SHEET 02 OF 27	

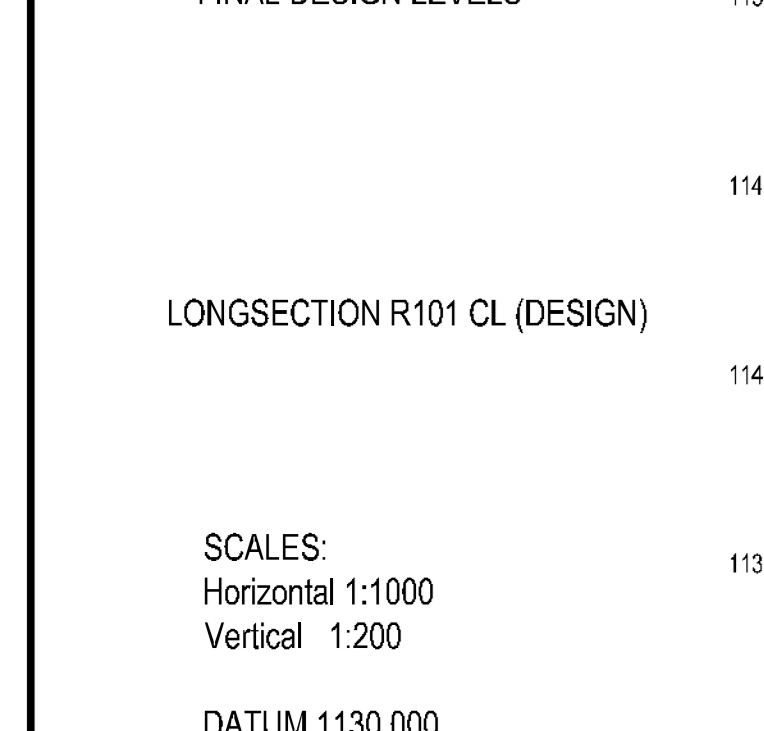
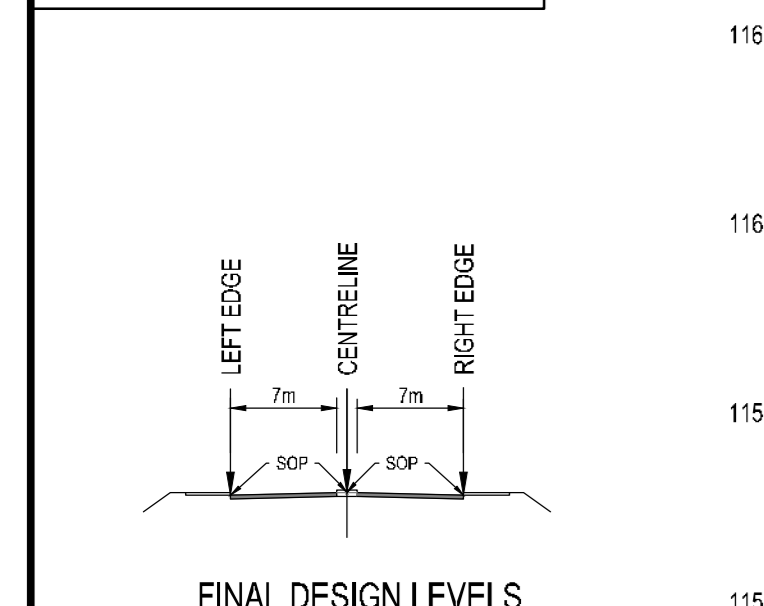
33532.00-110 (BELA-BELA).DWG

SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCE LINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREET LIGHT

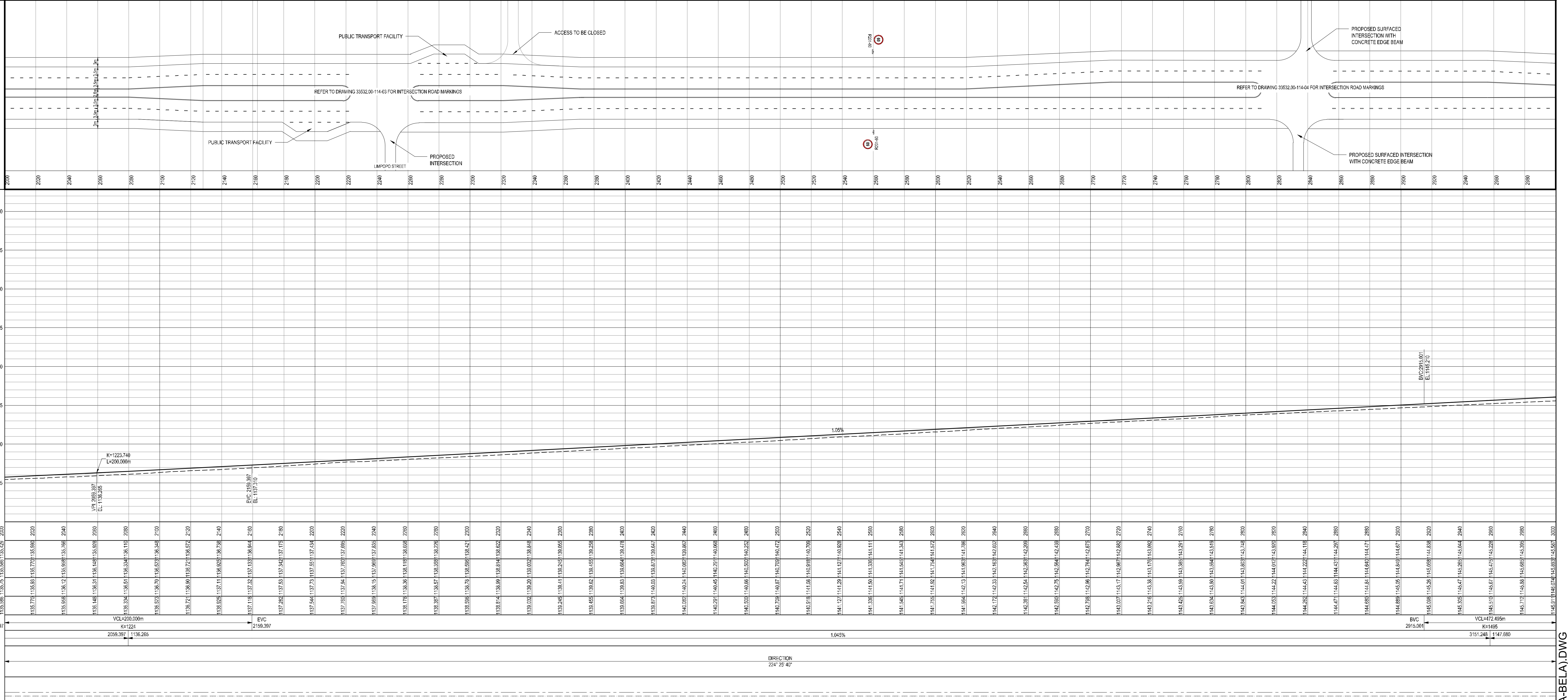


SYMBOL	DESCRIPTION		
	PROPOSED CULVERT		
	EXISTING CULVERT		
	PROPOSED GUARDRAIL		
	EXISTING GUARDRAIL		
	EXISTING FENCE LINE		
	EXISTING TELEPHONE LINES		
	EXISTING STREET LIGHTS		
	W401 (80x150)		
	W402 (80x150)		
	ROAD MARKINGS (REF. SARTS)		
	CODE		
	THICKNESS / COLOUR		
	CONFIGURATION		
	WMS STANDARD	100mm WHITE	4.0m LINE & 6.0m GAP
	WMS STANDARD	300mm WHITE	2.0m LINE & 4.0m GAP
	CVI STANDARD	100mm WHITE	2.0m LINE & 6.0m GAP
	RM1	100mm WHITE	SOLID LINE
	RM1.5	150mm YELLOW	SOLID LINE
	RM2	150mm WHITE	SOLID LINE

SYMBOL	DESCRIPTION
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALIGNMENT (CL)



DISTANCE (m)	GROUND LEVELS ON CL	FINAL DESIGN ROAD LEVELS	VERTICAL PROFILE GRADES	HORIZONTAL ALIGNMENT	SUPERELEVATION
2000	1135.95	1135.95	1135.95		
2020	1135.70	1135.65	1135.70		
2040	1135.55	1135.50	1135.55		
2060	1135.40	1135.35	1135.40		
2080	1135.25	1135.20	1135.25		
2100	1135.10	1135.05	1135.10		
2120	1134.95	1134.90	1134.95		
2140	1134.80	1134.75	1134.80		
2160	1134.65	1134.60	1134.65		
2180	1134.50	1134.45	1134.50		
2200	1134.35	1134.30	1134.35		
2220	1134.20	1134.15	1134.20		
2240	1134.05	1134.00	1134.05		
2260	1133.90	1133.85	1133.90		
2280	1133.75	1133.70	1133.75		
2300	1133.60	1133.55	1133.60		
2320	1133.45	1133.40	1133.45		
2340	1133.30	1133.25	1133.30		
2360	1133.15	1133.10	1133.15		
2380	1133.00	1132.95	1133.00		
2400	1132.85	1132.80	1132.85		
2420	1132.70	1132.65	1132.70		
2440	1132.55	1132.50	1132.55		
2460	1132.40	1132.35	1132.40		
2480	1132.25	1132.20	1132.25		
2500	1132.10	1132.05	1132.10		
2520	1131.95	1131.90	1131.95		
2540	1131.80	1131.75	1131.80		
2560	1131.65	1131.60	1131.65		
2580	1131.50	1131.45	1131.50		
2600	1131.35	1131.30	1131.35		
2620	1131.20	1131.15	1131.20		
2640	1131.05	1131.00	1131.05		
2660	1130.90	1130.85	1130.90		
2680	1130.75	1130.70	1130.75		
2700	1130.60	1130.55	1130.60		
2720	1130.45	1130.40	1130.45		
2740	1130.30	1130.25	1130.30		
2760	1130.15	1130.10	1130.15		
2780	1130.00	1129.95	1130.00		
2800	1129.85	1129.80	1129.85		
2820	1129.70	1129.65	1129.70		
2840	1129.55	1129.50	1129.55		
2860	1129.40	1129.35	1129.40		
2880	1129.25	1129.20	1129.25		
2900	1129.10	1129.05	1129.10		



No.	DATE	REVISION	CONSULT. ENG.
G	26/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
F	23/03/2021	STRIPMAP UPDATED	D.v.d.M
E	25/02/2021	VERTICAL REVISED	D.v.d.M
D	03/12/2020	VERTICAL REVISED	D.v.d.M
C	13/09/2020	HORIZONTAL REVISED TO 100KM/H @MAX 8%	D.v.d.M
B	31/01/2020	HORIZONTAL REVISED	D.v.d.M
A	18/12/2019	ORIGINAL VERSION	D.v.d.M

CONSTRUCTION RECORD	
WORKS CONTRACT ENGINEER	SANRAL PROJECT MANAGER
Name: Date:	Name: Date:



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 Fax: +27 (21) 527 7001

DESIGNED BY		CONSULTANT APPROVAL	
NAME: D.v.d.MERNE	Prof. Reg. No. 20120196	NAME: ANDRÉ GREYLING	Prof. Reg. No. 20060025
CHECKED BY:		DRAWN BY:	
NAME: D.v.d.MERNE	Prof. Reg. No. 20120196	NAME: SS. CLAMINI	

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NORTHERN REGION
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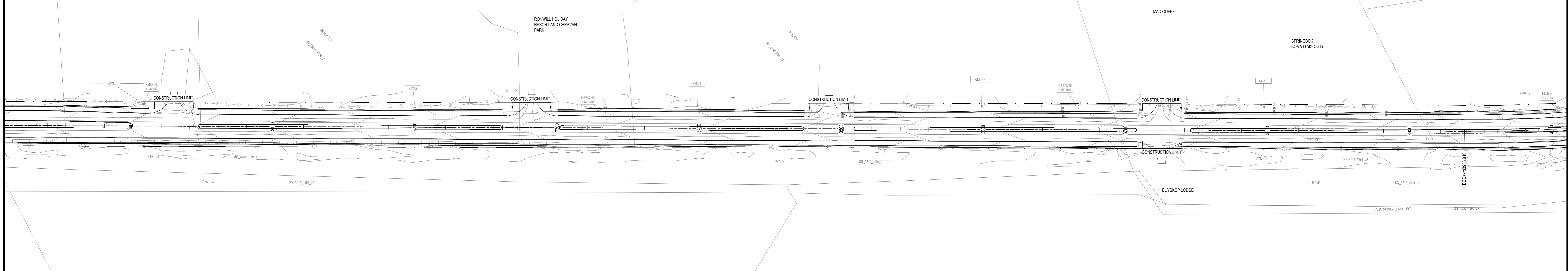
ACCEPTANCE
 THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWEVER ARISING
 for CEO: SA NATIONAL ROADS AGENCY SOC LTD
 Date:

PROJECT DESCRIPTION	
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)	
DRAWING NAME	
PLAN & PROFILE	
SCALE: 1:1000	
SHEET 03 OF 27	

PROJECT NUMBER		R-101-080-2019/1	
DRAWING LOCATION DATA		START	END
ROUTE		2	2
SECTION		8	8
DRAWING TYPE		PLAN & PROFILE	
BRIDGE/STRUCTURE No.		N/A	
CONSULTANT DRAWING No.		PD	
SANRAL DOCUMENT #		33532.00-110-03	
		VER G	

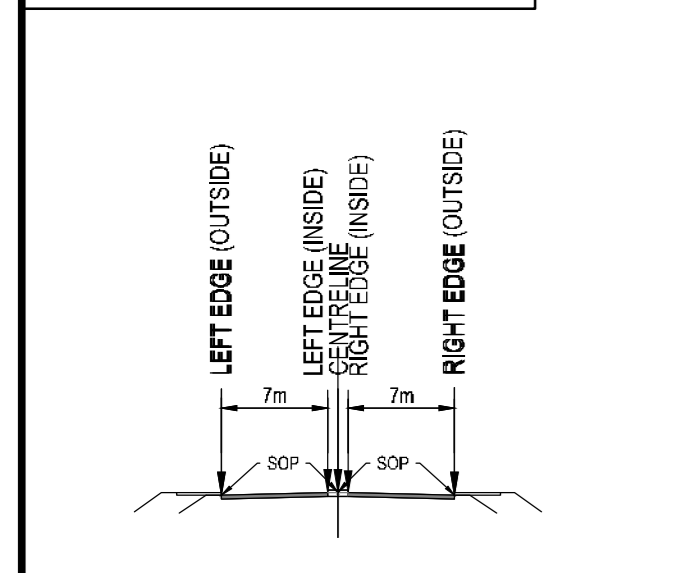
33532.00-110 (BELA-BELA).DWG

LEGEND	
SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCELINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREET LIGHT



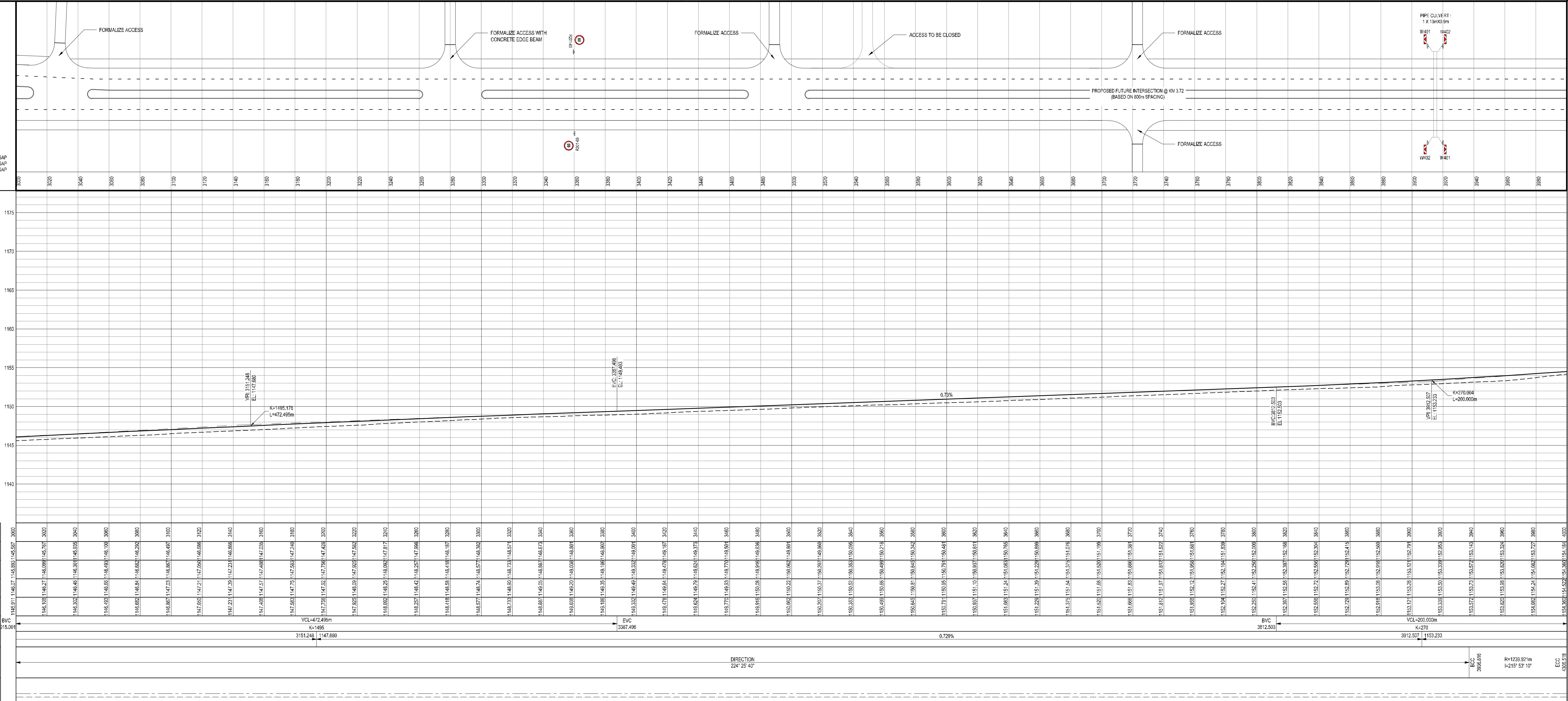
LEGEND		
	PROPOSED CULVERT	
	EXISTING CULVERT	
	PROPOSED GUARDRAIL	
	EXISTING GUARDRAIL	
	EXISTING FENCE LINE	
	EXISTING TELEPHONE LINES	
	EXISTING STREET LIGHTS	
	W401 (80x150)	
	W402 (80x150)	
ROAD MARKINGS (REF. SARTSI)		
CODE	THICKNESS / COLOUR	CONFIGURATION
WMS STANDARD	100mm / WHITE	4.0m LINE & 6.0m GAP
WMS STANDARD	300mm / WHITE	2.0m LINE & 4.0m GAP
CMI STANDARD	100mm / WHITE	2.0m LINE & 4.0m GAP
PM1	100mm / WHITE	SOLID LINE
PM1.1	150mm / YELLOW	SOLID LINE
PM1.2	150mm / WHITE	SOLID LINE

PROFILE LEGEND	
	NGL
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALIGNMENT (CL)



FINAL DESIGN LEVELS	
LEFT EDGE (OUTSIDE)	7m
LEFT EDGE (INSIDE)	7m
RIGHT EDGE (INSIDE)	7m
RIGHT EDGE (OUTSIDE)	7m

LONGSECTION R101 CL (DESIGN)	
SCALE:	Horizontal 1:1000
	Vertical 1:200
DATUM 1135.000	
DISTANCE (m)	GROUND LEVELS ON CL
	LEFT EDGE (HL)
	CENTRELINE
	RIGHT EDGE (HR)
FINAL DESIGN ROAD LEVELS	
VERTICAL PROFILE GRADES	
HORIZONTAL ALIGNMENT	
SUPERELEVATION	



No.	DATE	REVISION	CONSULT. ENG.
G	26/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
F	23/03/2021	STRIPMAP UPDATED	D.v.d.M
E	25/02/2021	VERTICAL REVISED	D.v.d.M
D	03/12/2020	VERTICAL REVISED	D.v.d.M
C	13/09/2020	HORIZONTAL REVISED TO 100KM/H @MAX 8%	D.v.d.M
B	31/01/2020	HORIZONTAL REVISED	D.v.d.M
A	18/12/2019	ORIGINAL VERSION	D.v.d.M

CONSTRUCTION RECORD	
WORKS CONTRACT ENGINEER	Name: _____
DATE	_____
SANRAL PROJECT MANAGER	
Name:	_____
Date:	_____

WESTERN CAPE
Cape Town
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c/o Edison Way & Century Avenue
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P O Box 86
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WebSite: www.bwincc.co.za
Tel: +27 (21) 527 7000
Fax: +27 (21) 527 7001

DESIGNED BY	
NAME	D.v.d.MERNE
Prof. Reg. No.	20120196
CHECKED BY	
NAME	D.v.d.MERNE
Prof. Reg. No.	20120196
DRAWN BY	
NAME	SS. CLAMINI

CONSULTANT APPROVAL	
Name	ANDRE GREYLING
Prof. Reg. No.	20060025

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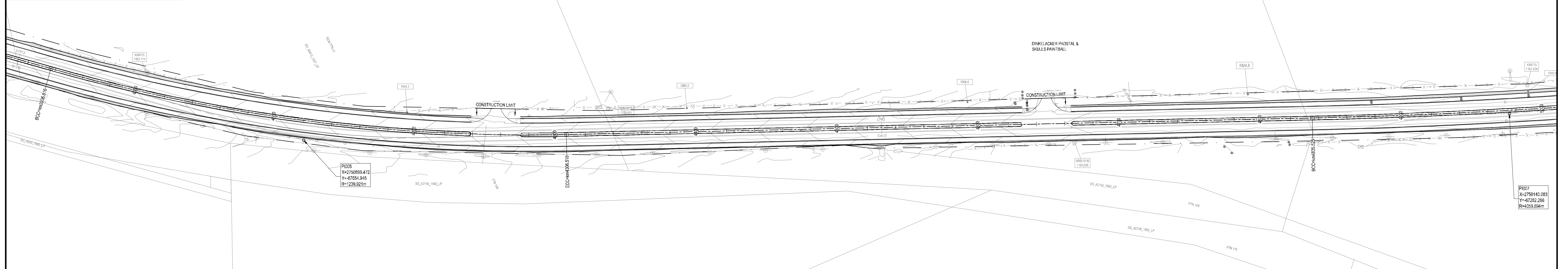
ACCEPTANCE	
THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWEVER ARISING	
for CEO: SA NATIONAL ROADS AGENCY SOC. LTD.	
Date:	_____

PROJECT DESCRIPTION	
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)	
DRAWING NAME	
PLAN & PROFILE	
SCALE:	1:1000

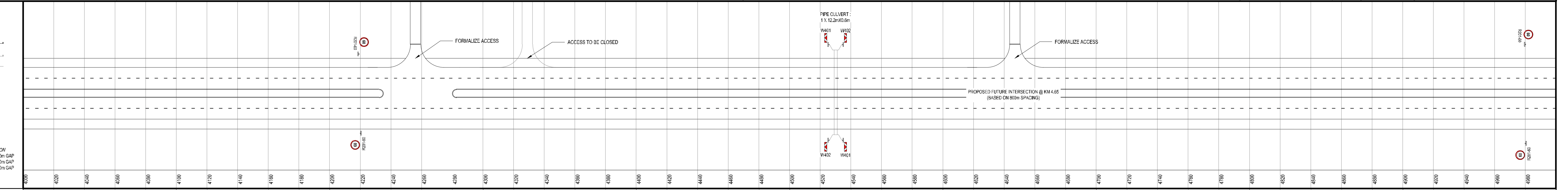
PROJECT NUMBER		R-101-080-2019/1	
DRAWING LOCATION DATA		START	END
ROUTE	SECTION	2	2
DRAWING km DISTANCE		KM 3.03	KM4.08
DRAWING TYPE		PLAN & PROFILE	
BRIDGE/STRUCTURE No.		N/A	
CONSULTANT DRAWING NO.	PD	33532.00-110-04	
SANRAL DOCUMENT #		VER G	
SHEET		04 OF 27	

33532.00-110 (BELA-BELA).DWG

SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCELINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREET LIGHT



SYMBOL	DESCRIPTION
	PROPOSED CULVERT
	EXISTING CULVERT
	PROPOSED GUARDRAIL
	EXISTING GUARDRAIL
	EXISTING FENCE LINE
	EXISTING TELEPHONE LINES
	EXISTING STREET LIGHTS
	ROAD MARKS
	W401 (80x150)
	W402 (80x150)

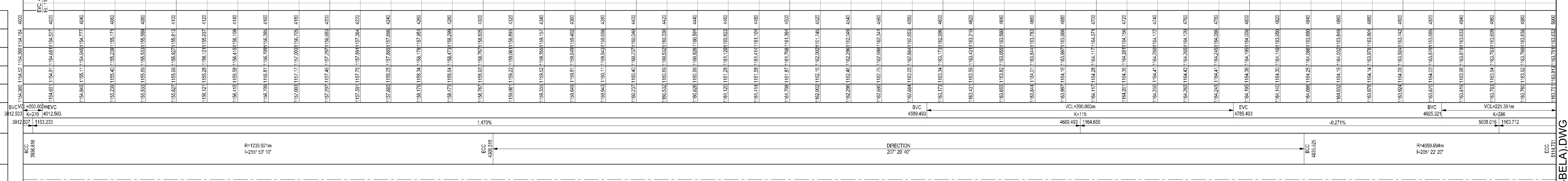


CODE	THICKNESS / COLOUR	CONFIGURATION
WMS STANDARD	100mm WHITE	4.0m LINE & 6.0m GAP
WMS STANDARD	300mm WHITE	2.0m LINE & 4.0m GAP
OWS STANDARD	100mm WHITE	2.0m LINE & 4.0m GAP
PM1	100mm WHITE	SOLID LINE
PM1.1	150mm YELLOW	SOLID LINE
PM1.2	150mm WHITE	SOLID LINE

SYMBOL	DESCRIPTION
	NGL
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALIGNMENT (CL)



DISTANCE (m)	GROUND LEVELS ON CL	FINAL DESIGN ROAD LEVELS
154.300	1154.300	1154.300
154.350	1154.350	1154.350
154.400	1154.400	1154.400
154.450	1154.450	1154.450
154.500	1154.500	1154.500
154.550	1154.550	1154.550
154.600	1154.600	1154.600
154.650	1154.650	1154.650
154.700	1154.700	1154.700
154.750	1154.750	1154.750
154.800	1154.800	1154.800
154.850	1154.850	1154.850
154.900	1154.900	1154.900
154.950	1154.950	1154.950
155.000	1155.000	1155.000
155.050	1155.050	1155.050
155.100	1155.100	1155.100
155.150	1155.150	1155.150
155.200	1155.200	1155.200
155.250	1155.250	1155.250
155.300	1155.300	1155.300
155.350	1155.350	1155.350
155.400	1155.400	1155.400
155.450	1155.450	1155.450
155.500	1155.500	1155.500
155.550	1155.550	1155.550
155.600	1155.600	1155.600
155.650	1155.650	1155.650
155.700	1155.700	1155.700
155.750	1155.750	1155.750
155.800	1155.800	1155.800
155.850	1155.850	1155.850
155.900	1155.900	1155.900
155.950	1155.950	1155.950
156.000	1156.000	1156.000
156.050	1156.050	1156.050
156.100	1156.100	1156.100
156.150	1156.150	1156.150
156.200	1156.200	1156.200
156.250	1156.250	1156.250
156.300	1156.300	1156.300
156.350	1156.350	1156.350
156.400	1156.400	1156.400
156.450	1156.450	1156.450
156.500	1156.500	1156.500
156.550	1156.550	1156.550
156.600	1156.600	1156.600
156.650	1156.650	1156.650
156.700	1156.700	1156.700
156.750	1156.750	1156.750
156.800	1156.800	1156.800
156.850	1156.850	1156.850
156.900	1156.900	1156.900
156.950	1156.950	1156.950
157.000	1157.000	1157.000
157.050	1157.050	1157.050
157.100	1157.100	1157.100
157.150	1157.150	1157.150
157.200	1157.200	1157.200
157.250	1157.250	1157.250
157.300	1157.300	1157.300
157.350	1157.350	1157.350
157.400	1157.400	1157.400
157.450	1157.450	1157.450
157.500	1157.500	1157.500
157.550	1157.550	1157.550
157.600	1157.600	1157.600
157.650	1157.650	1157.650
157.700	1157.700	1157.700
157.750	1157.750	1157.750
157.800	1157.800	1157.800
157.850	1157.850	1157.850
157.900	1157.900	1157.900
157.950	1157.950	1157.950
158.000	1158.000	1158.000



No.	DATE	REVISION	CONSULT. ENG.
G	26/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
F	23/03/2021	STRIPMAP UPDATED	D.v.d.M
E	25/02/2021	VERTICAL REVISED	D.v.d.M
D	03/12/2020	VERTICAL REVISED	D.v.d.M
C	13/09/2020	HORIZONTAL REVISED TO 100KM/H eMAX 8%	D.v.d.M
B	31/01/2020	HORIZONTAL REVISED	D.v.d.M
A	18/12/2019	ORIGINAL VERSION	D.v.d.M

CONSTRUCTION RECORD	
WORKS CONTRACT ENGINEER	Name: _____
SANRAL PROJECT MANAGER	Name: _____
DATE	Date: _____

WESTERN CAPE
 Cape Town
 Block B2, Edison Square
 c/o Edison Way & Century Avenue
 Century City, 7441
 P O Box 86
 Century City, 7446
 E-mail: cpi@bmvwc.co.za
 Website: www.bvproj.co.za
 Tel: +27 (21) 527 7000
 Fax: +27 (21) 527 7001
 Registrars no. 1998/001/5767

CESA
 50 YEARS CELEBRATION EST 1967 8017
 • ENGINEERING • PROCUREMENT • MANAGEMENT

DESIGNED BY		CONSULTANT APPROVAL	
NAME	D.v.d.MERNE	NAME	ANDRIE GREYLING
Prof. Reg. No.	20120196	Prof. Reg. No.	20060025
CHECKED BY		DATE	
NAME	D.v.d.MERNE		
Prof. Reg. No.	20120196		
DRAWN BY			
NAME	SS. CLAMINI		

HEAD OFFICE
 46 Tamborlo Avenue
 Val de Grace
 Pretoria
 0184
 PO Box 415
 Pretoria 0001
 South Africa
 Tel: (012) 844 8000

SANRAL
 SOUTH AFRICAN NATIONAL ROADS AGENCY
 BUILDING SOUTH AFRICA THROUGH BETTER ROADS

NORTHERN REGION
 30 Ida Street
 Menlo Park
 Pretoria
 6025
 Private Bag X17
 Lynnwood Ridge
 0040
 Tel: (012) 426 6200

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 CEO: SA NATIONAL ROADS AGENCY SOC. LTD.
 Date: _____

PROJECT DESCRIPTION
 IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)

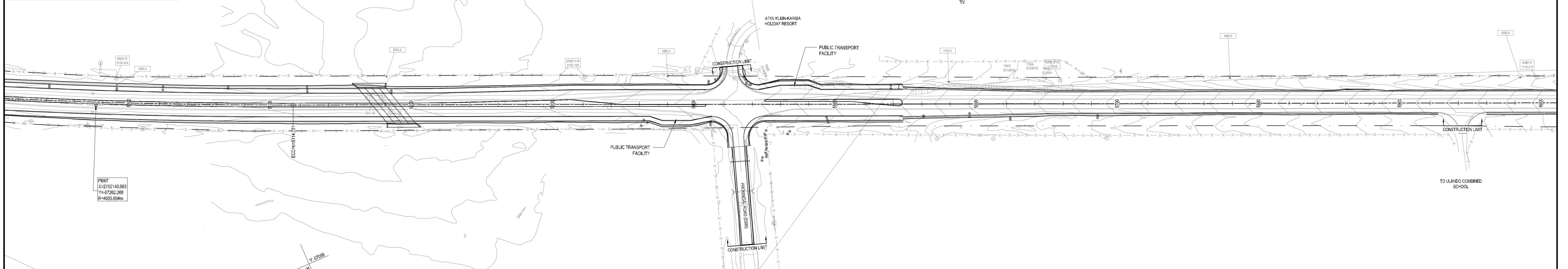
DRAWING NAME
 PLAN & PROFILE

SCALE: 1:1000

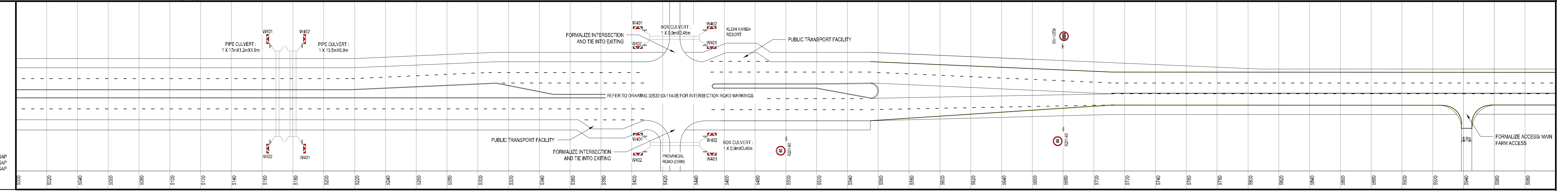
PROJECT NUMBER	R-101-080-2019/1	
DRAWING LOCATION DATA	START	END
ROUTE	2	2
SECTION	8	8
DRAWING TYPE	PLAN & PROFILE	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	PD	33532.00-110-05
SANRAL DOCUMENT #		
SHEET	05 OF 27	

33532.00-110 (BELA-BELA).DWG

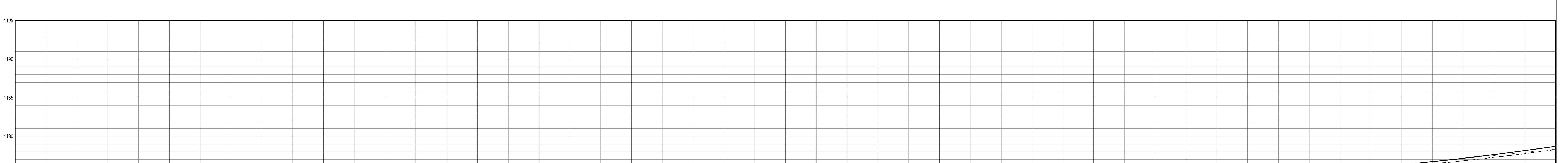
SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCE LINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREET LIGHT



SYMBOL	DESCRIPTION
	PROPOSED CULVERT
	EXISTING CULVERT
	PROPOSED GUARDRAIL
	EXISTING GUARDRAIL
	EXISTING FENCE LINE
	EXISTING TELEPHONE LINES
	EXISTING STREET LIGHTS
	ROAD SIGNS
	W401 (800x150)
	W402 (800x150)
	ROAD MARKINGS (REF. SARTS)
	WMS STANDARD
	WMS STANDARD
	CMS STANDARD
	RM1
	RM1.5
	RM2



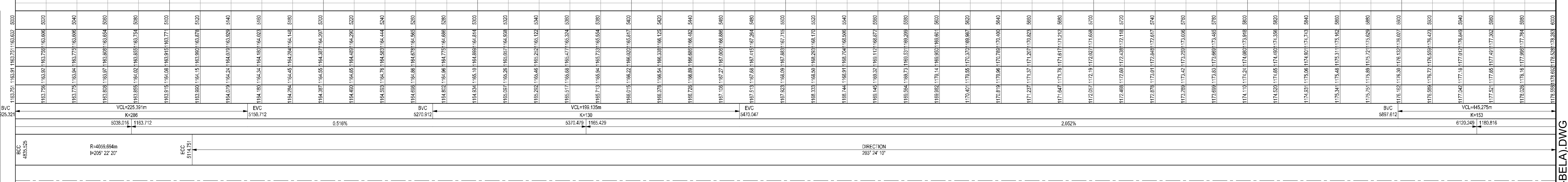
SYMBOL	DESCRIPTION
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALIGNMENT (CL)
	VERTICAL ALIGNMENT - 80km/h DESIGN SPEED



SYMBOL	DESCRIPTION
	FINAL DESIGN LEVELS
	LONGSECTION R101 CL (DESIGN)



DISTANCE (m)	
GROUND LEVELS ON CL	
LEFT EDGE (HL)	
CENTRELINE	
RIGHT EDGE (HR)	
VERTICAL PROFILE GRADES	
HORIZONTAL ALIGNMENT	
SUPERELEVATION	



No.	DATE	REVISION	CONSULT. ENG.
G	26/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
F	23/03/2021	STRIPMAP UPDATED	D.v.d.M
E	25/02/2021	VERTICAL REVISED	D.v.d.M
D	03/12/2020	VERTICAL REVISED	D.v.d.M
C	13/09/2020	HORIZONTAL REVISED TO 100KM/H @MAX 8%	D.v.d.M
B	31/01/2020	HORIZONTAL REVISED	D.v.d.M
A	18/12/2019	ORIGINAL VERSION	D.v.d.M

CONSTRUCTION RECORD	
WORKS CONTRACT ENGINEER	Name: _____
SANRAL PROJECT MANAGER	Name: _____

WESTERN CAPE
 Cape Town
 Block B2, Edison Square
 c/o Edison Way & Century Avenue
 Century City, 7441
 P O Box 86
 Century City, 7446
 E-mail: cpi@bvwinc.co.za
 Website: www.bvwinc.co.za
 Tel: +27 (21) 527 7000
 Fax: +27 (21) 527 7001

DESIGNED BY		CONSULTANT APPROVAL	
NAME	D.v.d.MERNE	NAME	ANDRIE GREYLING
Prof. Reg. No.	20120196	Prof. Reg. No.	20060025
CHECKED BY			
NAME	D.v.d.MERNE		
Prof. Reg. No.	20120196		
DRAWN BY			
NAME	SS. CLAMINI		

HEAD OFFICE
 46 Tambora Avenue
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 Pretoria
 0184
 PO Box 415
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 South Africa
 Tel: (012) 844 8000

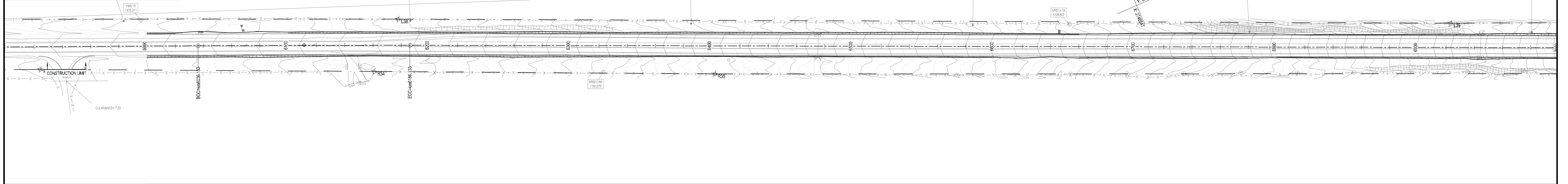
NORTHERN REGION
 30 Ida Street
 Menlo Park
 Pretoria
 6025
 Private Bag X17
 Lynnwood Ridge
 0040
 Tel: (012) 426 6200

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 HOWSOEVER ARISING
 for CEO: SA NATIONAL ROADS AGENCY SOC. LTD.
 Date: _____

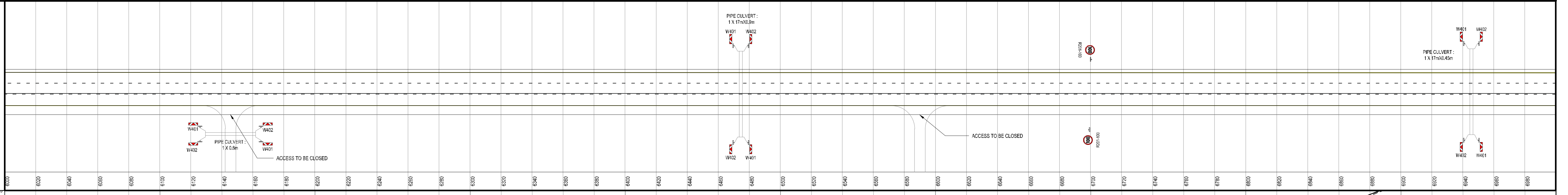
PROJECT DESCRIPTION		PROJECT NUMBER	
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)		R-101-080-2019/1	
DRAWING LOCATION DATA	ROUTE	START	END
SECTION	8	2	2
DRAWING TYPE	DRAWING NO.	PLAN & PROFILE	
BRIDGE/STRUCTURE No.		N/A	
CONSULTANT DRAWING No.	PD	33532.00-110-06	
SANRAL DOCUMENT #			

33532.00-110 (BELA-BELA).DWG

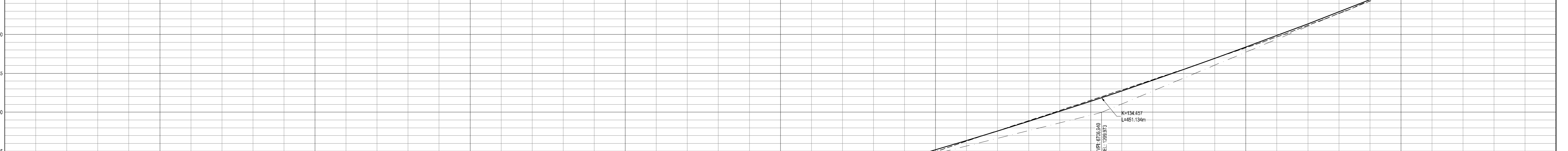
LEGEND	
SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCELINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREET LIGHT



LEGEND		
	PROPOSED CULVERT	
	EXISTING CULVERT	
	PROPOSED GUARDRAIL	
	EXISTING GUARDRAIL	
	EXISTING FENCE LINE	
	EXISTING TELEPHONE LINES	
	EXISTING STREET LIGHTS	
ROAD MARKINGS (REF: SARTSM)		
CODE	THICKNESS / COLOUR	COMPARISON / GAP
WMS STANDARD	100mm WHITE	4.0m LINE & 5.0m GAP
WMS STANDARD	300mm WHITE	2.0m LINE & 4.0m GAP
CSM STANDARD	100mm WHITE	SOLID LINE
PMT	100mm WHITE	SOLID LINE
PMT 1	150mm YELLOW	SOLID LINE
PMT 2	150mm WHITE	SOLID LINE

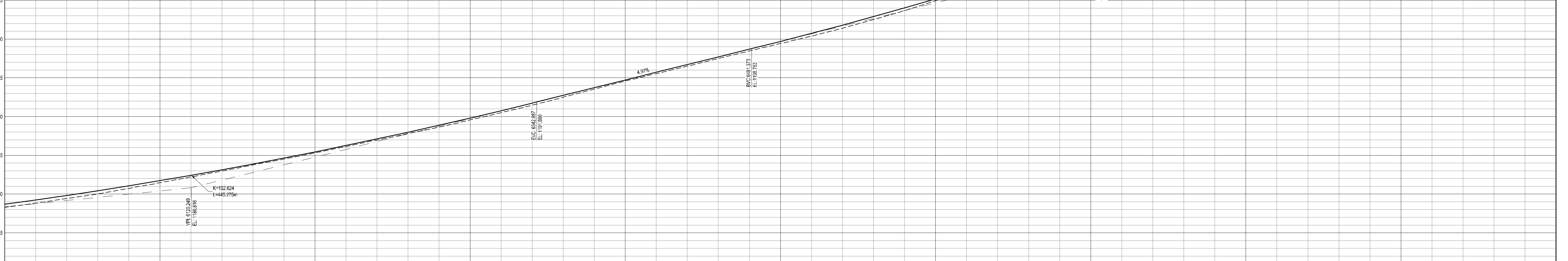


PROFILE LEGEND	
	NEL
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALLOWANCE (CL)
VERTICAL ALIGNMENT - 80km/h DESIGN SPEED	
	FINAL DESIGN LEVELS
	LONGSECTION R101 CL (DESIGN)

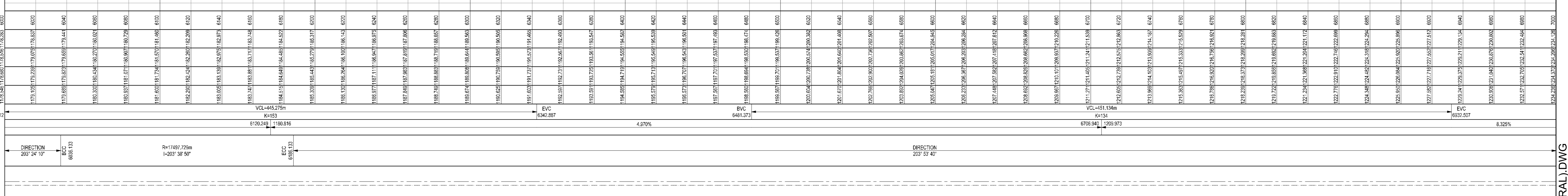


SCALES	
Horizontal	1:1000
Vertical	1:200

DATUM 1170.000	
DISTANCE (m)	
GROUND LEVELS ON CL	
FINAL DESIGN ROAD LEVELS	
LEFT EDGE (HL)	
CENTRE LINE (CL)	
RIGHT EDGE (HR)	



VERTICAL PROFILE GRADES	
BVC	6481.373
EVC	6481.373
BVC	6709.942
EVC	6709.942



No.	DATE	REVISION	CONSULT. ENG.
G	26/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
F	08/03/2021	STRIPMAP UPDATED	D.v.d.M
E	25/02/2021	VERTICAL REVISION	D.v.d.M
D	03/12/2020	HORIZONTAL REVISED TO 100KM/H @ MAX 8%	D.v.d.M
C	13/09/2020	HORIZONTAL REVISED	D.v.d.M
B	31/01/2020	HORIZONTAL REVISED	D.v.d.M
A	18/12/2019	ORIGINAL VERSION	D.v.d.M

CONSTRUCTION RECORD	
WORKS CONTRACT ENGINEER	Name: _____
SANRAL PROJECT MANAGER	Name: _____

WESTERN CAPE
Cape Town
Block B2, Edison Square
c/o Edison Way & Century Avenue
Century City, 7441

P O Box 86
Century City, 7446

E-mail: cap@bwinwv.co.za
WebSite: www.bwinwv.co.za
Tel: +27 (21) 527 7000
Fax: +27 (21) 527 7001

DESIGNED BY	
NAME	D.v.d.MERNE
Prof. Reg. No.	20120196

CONSULTANT APPROVAL	
NAME	ANDRE GREYLING
Prof. Reg. No.	20060025

HEAD OFFICE
46 Tambora Avenue
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South Africa

Tel: (012) 844 8000

NORTHERN REGION
30 Ida Street
Menlo Park
Pretoria
6025

Private Bag X17
Lynnwood Ridge
0040

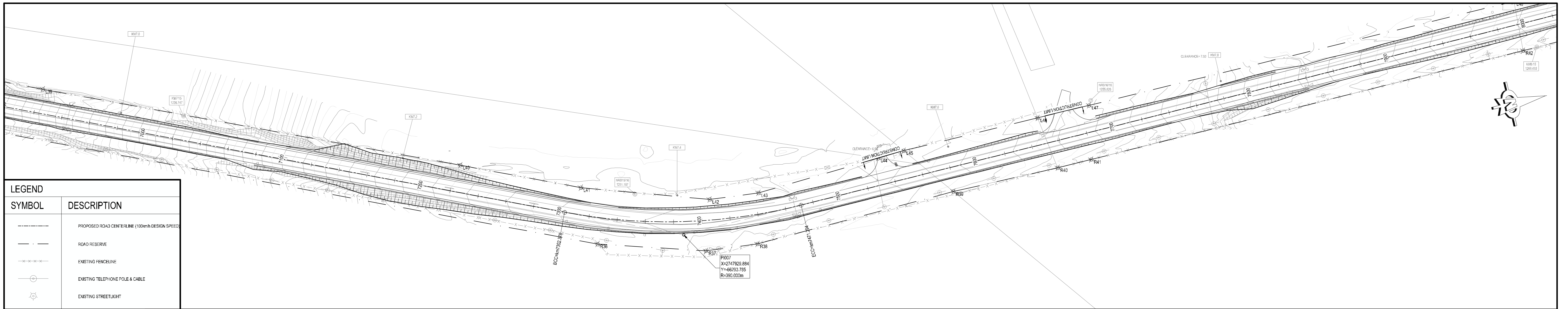
Tel: (012) 426 6200

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 CEO: SA NATIONAL ROADS AGENCY SOC. LTD	

PROJECT DESCRIPTION	
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)	
DRAWING NAME PLAN & PROFILE	
SCALE: 1:1000	

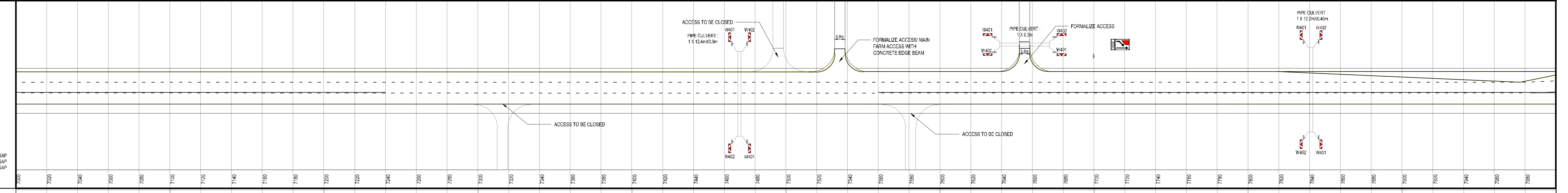
PROJECT NUMBER	
R-101-080-2019/1	

DRAWING LOCATION DATA	
ROUTE	2
SECTION	8
DRAWING TYPE	PLAN & PROFILE
BRIDGE/STRUCTURE No.	N/A
CONSULTANT DRAWING No.	33532.00-110-07
SANRAL DOCUMENT #	



SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCELINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREETLIGHT

LEGEND	DESCRIPTION
	PROPOSED CULVERT
	EXISTING CULVERT
	PROPOSED GUARDRAIL
	EXISTING GUARDRAIL
	EXISTING FENCE LINE
	EXISTING TELEPHONE LINES
	EXISTING STREET LIGHTS
	ROAD SIGNS
	W401 (80x150)
	W402 (80x150)
ROAD MARKINGS (REF: SARTSM)	
	WMS STANDARD
	WMS STANDARD
	WMS STANDARD
	FMT
	FMT.1
	FMT.2



PROFILE LEGEND	DESCRIPTION
	NBL
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALIGNMENT (CL)

VERTICAL ALIGNMENT - 80km/h DESIGN SPEED	DESCRIPTION
	VERTICAL CURVE

FINAL DESIGN LEVELS	DESCRIPTION
	LEFT EDGE
	RIGHT EDGE

LONGSECTION R101 CL (DESIGN)	DESCRIPTION
	GROUND LEVELS ON CL
	LEFT EDGE (HL)
	CENTRE LINE (CL)
	RIGHT EDGE (HR)

SCALES	DESCRIPTION
Horizontal	1:1000
Vertical	1:200
DATUM	1225.000

DISTANCE (m)	GROUND LEVELS ON CL	FINAL DESIGN ROAD LEVELS	VERTICAL PROFILE GRADES	HORIZONTAL ALIGNMENT	SUPERELEVATION
1234.250	1234.250	1234.250	8.328%		
1235.000	1235.000	1235.000			
1236.000	1236.000	1236.000			
1237.000	1237.000	1237.000			
1238.000	1238.000	1238.000			
1239.000	1239.000	1239.000			
1240.000	1240.000	1240.000			
1241.000	1241.000	1241.000			
1242.000	1242.000	1242.000			
1243.000	1243.000	1243.000			
1244.000	1244.000	1244.000			
1245.000	1245.000	1245.000			
1246.000	1246.000	1246.000			
1247.000	1247.000	1247.000			
1248.000	1248.000	1248.000			
1249.000	1249.000	1249.000			
1250.000	1250.000	1250.000			
1251.000	1251.000	1251.000			
1252.000	1252.000	1252.000			
1253.000	1253.000	1253.000			
1254.000	1254.000	1254.000			
1255.000	1255.000	1255.000			
1256.000	1256.000	1256.000			
1257.000	1257.000	1257.000			
1258.000	1258.000	1258.000			
1259.000	1259.000	1259.000			
1260.000	1260.000	1260.000			
1261.000	1261.000	1261.000			
1262.000	1262.000	1262.000			
1263.000	1263.000	1263.000			
1264.000	1264.000	1264.000			
1265.000	1265.000	1265.000			
1266.000	1266.000	1266.000			
1267.000	1267.000	1267.000			
1268.000	1268.000	1268.000			
1269.000	1269.000	1269.000			
1270.000	1270.000	1270.000			
1271.000	1271.000	1271.000			
1272.000	1272.000	1272.000			
1273.000	1273.000	1273.000			
1274.000	1274.000	1274.000			
1275.000	1275.000	1275.000			
1276.000	1276.000	1276.000			
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1279.000	1279.000	1279.000			
1280.000	1280.000	1280.000			
1281.000	1281.000	1281.000			
1282.000	1282.000	1282.000			
1283.000	1283.000	1283.000			
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1287.000	1287.000	1287.000			
1288.000	1288.000	1288.000			
1289.000	1289.000	1289.000			
1290.000	1290.000	1290.000			

CONSTRUCTION RECORD	WORKS CONTRACT ENGINEER
Name: _____	Date: _____
Name: _____	Date: _____
Name: _____	Date: _____

DESIGNED BY	CONSULTANT APPROVAL
Name: D.v.d.MERNE	Name: ANDRIE GREYLING
Prof. Reg. No. 20120196	Prof. Reg. No. 20060025

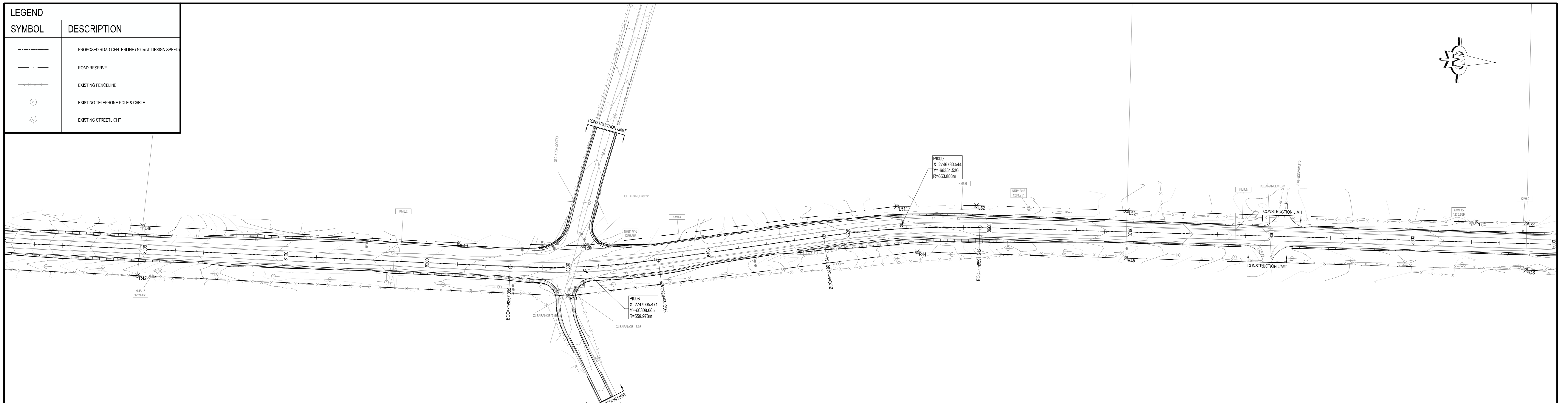
HEAD OFFICE	NORTHERN REGION
46 Tamboletje Avenue Val de Grace Pretoria 0184 Tel: (012) 844 8000	30 Ida Street Menlo Park Pretoria 6025 Tel: (012) 426 6200

PROJECT DESCRIPTION	PROJECT NUMBER
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)	R-101-080-2019/1

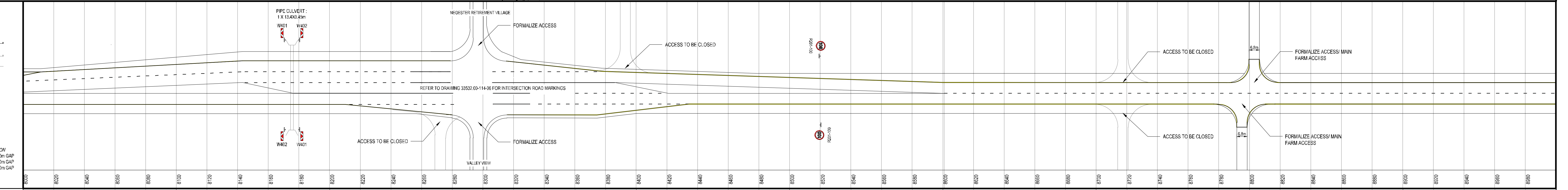
DRAWING LOCATION DATA	START	END
ROUTE	2	2
SECTION	8	8
DRAWING TYPE	PLAN & PROFILE	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	PD	33532-00-110-08
SANRAL DOCUMENT #		

DRAWING NAME	SCALE	SHEET	DATE
PLAN & PROFILE	1:1000	08 OF 27	

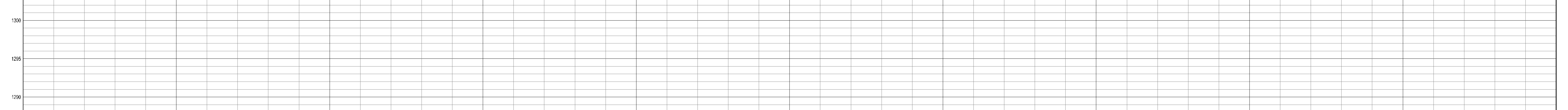
SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCE LINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREET LIGHT



CODE	THICKNESS / COLOUR	CONFIGURATION
WMS STANDARD	100mm WHITE	4.0m LINE & 6.0m GAP
WMS STANDARD	300mm WHITE	2.0m LINE & 4.0m GAP
OW STANDARD	100mm WHITE	2.0m LINE & 4.0m GAP
PM1	100mm WHITE	SOLID LINE
PM1.5	150mm YELLOW	SOLID LINE
PM2	150mm WHITE	SOLID LINE



PROFILE LEGEND	
	NBL
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALLOWANCE (CL)



DISTANCE (m)	GROUND LEVELS ON CL	FINAL DESIGN ROAD LEVELS	VERTICAL PROFILE GRADES	HORIZONTAL ALIGNMENT	SUPERELEVATION
8000	1273.581	1273.581	1.378%	R=450.000	-2.0%
8020	1273.581	1273.581	1.378%	R=450.000	-2.0%
8040	1273.581	1273.581	1.378%	R=450.000	-2.0%
8060	1273.581	1273.581	1.378%	R=450.000	-2.0%
8080	1273.581	1273.581	1.378%	R=450.000	-2.0%
8100	1273.581	1273.581	1.378%	R=450.000	-2.0%
8120	1273.581	1273.581	1.378%	R=450.000	-2.0%
8140	1273.581	1273.581	1.378%	R=450.000	-2.0%
8160	1273.581	1273.581	1.378%	R=450.000	-2.0%
8180	1273.581	1273.581	1.378%	R=450.000	-2.0%
8200	1273.581	1273.581	1.378%	R=450.000	-2.0%
8220	1273.581	1273.581	1.378%	R=450.000	-2.0%
8240	1273.581	1273.581	1.378%	R=450.000	-2.0%
8260	1273.581	1273.581	1.378%	R=450.000	-2.0%
8280	1273.581	1273.581	1.378%	R=450.000	-2.0%
8300	1273.581	1273.581	1.378%	R=450.000	-2.0%
8320	1273.581	1273.581	1.378%	R=450.000	-2.0%
8340	1273.581	1273.581	1.378%	R=450.000	-2.0%
8360	1273.581	1273.581	1.378%	R=450.000	-2.0%
8380	1273.581	1273.581	1.378%	R=450.000	-2.0%
8400	1273.581	1273.581	1.378%	R=450.000	-2.0%
8420	1273.581	1273.581	1.378%	R=450.000	-2.0%
8440	1273.581	1273.581	1.378%	R=450.000	-2.0%
8460	1273.581	1273.581	1.378%	R=450.000	-2.0%
8480	1273.581	1273.581	1.378%	R=450.000	-2.0%
8500	1273.581	1273.581	1.378%	R=450.000	-2.0%
8520	1273.581	1273.581	1.378%	R=450.000	-2.0%
8540	1273.581	1273.581	1.378%	R=450.000	-2.0%
8560	1273.581	1273.581	1.378%	R=450.000	-2.0%
8580	1273.581	1273.581	1.378%	R=450.000	-2.0%
8600	1273.581	1273.581	1.378%	R=450.000	-2.0%
8620	1273.581	1273.581	1.378%	R=450.000	-2.0%
8640	1273.581	1273.581	1.378%	R=450.000	-2.0%
8660	1273.581	1273.581	1.378%	R=450.000	-2.0%
8680	1273.581	1273.581	1.378%	R=450.000	-2.0%
8700	1273.581	1273.581	1.378%	R=450.000	-2.0%
8720	1273.581	1273.581	1.378%	R=450.000	-2.0%
8740	1273.581	1273.581	1.378%	R=450.000	-2.0%
8760	1273.581	1273.581	1.378%	R=450.000	-2.0%
8780	1273.581	1273.581	1.378%	R=450.000	-2.0%
8800	1273.581	1273.581	1.378%	R=450.000	-2.0%
8820	1273.581	1273.581	1.378%	R=450.000	-2.0%
8840	1273.581	1273.581	1.378%	R=450.000	-2.0%
8860	1273.581	1273.581	1.378%	R=450.000	-2.0%
8880	1273.581	1273.581	1.378%	R=450.000	-2.0%
8900	1273.581	1273.581	1.378%	R=450.000	-2.0%
8920	1273.581	1273.581	1.378%	R=450.000	-2.0%
8940	1273.581	1273.581	1.378%	R=450.000	-2.0%
8960	1273.581	1273.581	1.378%	R=450.000	-2.0%
8980	1273.581	1273.581	1.378%	R=450.000	-2.0%
9000	1273.581	1273.581	1.378%	R=450.000	-2.0%

CONSTRUCTION RECORD	DESIGNED BY	CONSULTANT APPROVAL
WORKS CONTRACT ENGINEER	NAME: D.v.d MERNE Prof. Reg. No.: 20120196	NAME: ANDRIE GREYLING Prof. Reg. No.: 20060025
SANRAL PROJECT MANAGER	CHECKED BY: D.v.d MERNE Prof. Reg. No.: 20120196	DRAWN BY: SS. CLAMINI

REVISION	DATE	DESCRIPTION	CONSULT. ENG.
G	26/04/2021	RIGHT TURNING LANES ADDED	D.v.d M
F	08/03/2021	STRIPMAP UPDATED	D.v.d M
E	25/02/2021	VERTICAL REVISED	D.v.d M
D	03/12/2020	VERTICAL REVISED	D.v.d M
C	13/09/2020	HORIZONTAL REVISED TO 100KM/H eMAX 8%	D.v.d M
B	31/01/2020	HORIZONTAL REVISED	D.v.d M
A	18/12/2019	ORIGINAL VERSION	D.v.d M

WESTERN CAPE
Cape Town
Block B2, Edison Square
c/o Edison Way & Century Avenue
Century City, 7441
P O Box 86
Century City, 7446
E-mail: cpi@bivinc.co.za
WebSite: www.bivinc.co.za
Tel: +27 (21) 527 7000
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CSA
100% LOCAL
50 YEARS CELEBRATION
EST 1967-8017
• ENGINEERING • PROCUREMENT • MANAGEMENT
Registration No. 1998/001/5767

SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC. LTD.
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

NORTHERN REGION
30 Ida Street
Menlo Park
Pretoria
6025
Private Bag X17
Lynnwood Ridge
0040
Tel: (012) 426 6200

PROJECT DESCRIPTION
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)

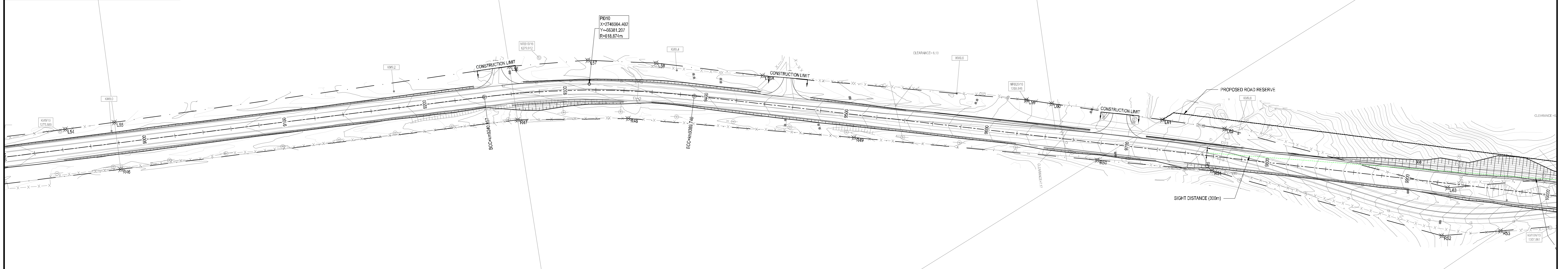
DRAWING NAME
PLAN & PROFILE

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
BY CEO: SA NATIONAL ROADS AGENCY SOC. LTD.
Date:

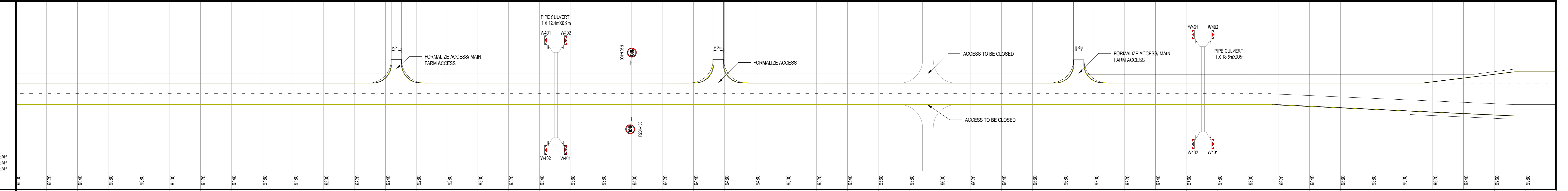
PROJECT NUMBER	R-101-080-2019/1
DRAWING LOCATION DATA	START 2 END 2
ROUTE	2
SECTION	8
DRAWING TYPE	PLAN & PROFILE
BRIDGE/STRUCTURE No.	N/A
CONSULTANT DRAWING No.	33532.00-110-09
SANRAL DOCUMENT #	1274.005
SCALE: 1:1000	SHEET 09 OF 27

33532.00-110 (RURAL).DWG

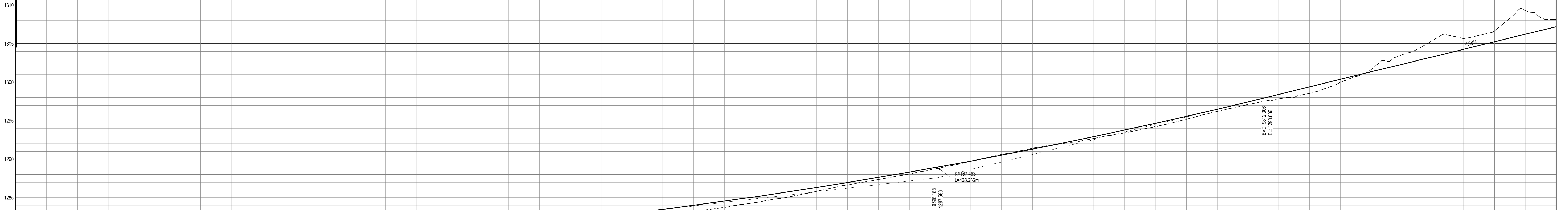
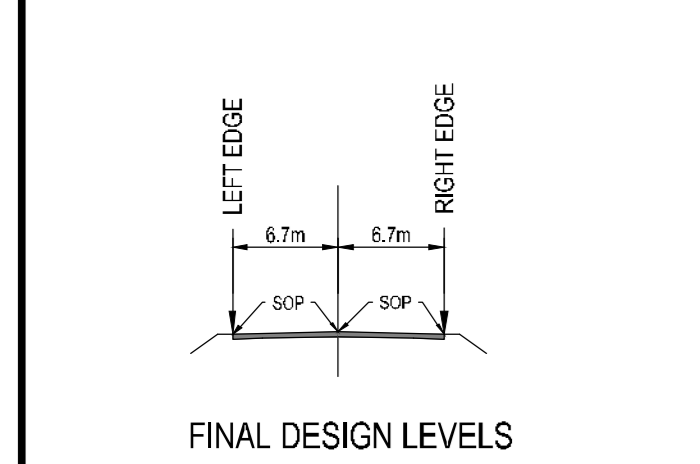
SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCE LINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREET LIGHT



CODE	THICKNESS / COLOUR	CONFIGURATION
WMS STANDARD	100mm WHITE	4.0m LINE & 6.0m GAP
WMS STANDARD	300mm WHITE	2.0m LINE & 4.0m GAP
OWS STANDARD	100mm WHITE	2.0m LINE & 4.0m GAP
PM1	100mm WHITE	SOLID LINE
PM1.1	150mm YELLOW	SOLID LINE
PM1.2	150mm WHITE	SOLID LINE

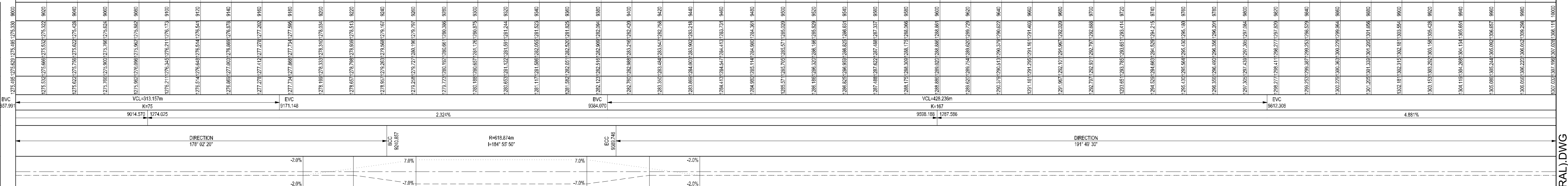


SCALE	DESCRIPTION
Horizontal	1:1000
Vertical	1:200



DISTANCE (m)	GROUND LEVELS ON CL	FINAL DESIGN ROAD LEVELS	VERTICAL PROFILE GRADES	HORIZONTAL ALIGNMENT	SUPERELEVATION
9000	1275.527	1275.527	2.32%	R=616.87m	-2.0%
9050	1275.527	1275.527	2.32%	R=616.87m	-2.0%
9100	1275.527	1275.527	2.32%	R=616.87m	-2.0%
9150	1275.527	1275.527	2.32%	R=616.87m	-2.0%
9200	1275.527	1275.527	2.32%	R=616.87m	-2.0%
9250	1275.527	1275.527	2.32%	R=616.87m	-2.0%
9300	1275.527	1275.527	2.32%	R=616.87m	-2.0%
9350	1275.527	1275.527	2.32%	R=616.87m	-2.0%
9400	1275.527	1275.527	2.32%	R=616.87m	-2.0%
9450	1275.527	1275.527	2.32%	R=616.87m	-2.0%
9500	1275.527	1275.527	2.32%	R=616.87m	-2.0%
9550	1275.527	1275.527	2.32%	R=616.87m	-2.0%
9600	1275.527	1275.527	2.32%	R=616.87m	-2.0%
9650	1275.527	1275.527	2.32%	R=616.87m	-2.0%
9700	1275.527	1275.527	2.32%	R=616.87m	-2.0%
9750	1275.527	1275.527	2.32%	R=616.87m	-2.0%
9800	1275.527	1275.527	2.32%	R=616.87m	-2.0%
9850	1275.527	1275.527	2.32%	R=616.87m	-2.0%
9900	1275.527	1275.527	2.32%	R=616.87m	-2.0%
9950	1275.527	1275.527	2.32%	R=616.87m	-2.0%
10000	1275.527	1275.527	2.32%	R=616.87m	-2.0%

NO.	DATE	REVISION	CONSULT. ENG.
G	26/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
F	08/03/2021	STRIPMAP UPDATED	D.v.d.M
E	25/02/2021	VERTICAL REVISED	D.v.d.M
D	03/12/2020	HORIZONTAL REVISED TO 100KM/H @MAX 8%	D.v.d.M
C	31/01/2020	HORIZONTAL REVISED	D.v.d.M
B	18/12/2019	ORIGINAL VERSION	D.v.d.M
A	18/12/2019	ORIGINAL VERSION	D.v.d.M



CONTRACTOR	DESIGNED BY	CONSULTANT APPROVAL
WESTERN CAPE Cape Town Block B2, Edison Square c/o Edison Way & Century Avenue Century City, 7441 P O Box 86 Century City, 7446 E-mail: cpi@winc.co.za WebSite: www.winc.co.za Tel: +27 (21) 527 7000 Fax: +27 (21) 527 7001	NAME: D.v.d.MERNE Prof. Reg. No.: 20120196 CHECKED BY: D.v.d.MERNE Prof. Reg. No.: 20120196 DRAWN BY: SS. CLAMINI	NAME: ANDRIE GREYLING Prof. Reg. No.: 20060025

PROJECT DESCRIPTION	PROJECT NUMBER
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)	R-101-080-2019/1

DRAWING LOCATION DATA	START	END
ROUTE SECTION	2	2
DRAWING TYPE	8	8
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	33532.00-110-10	
SANRAL DOCUMENT #	VER G	

PROJECT NUMBER	ROUTE	SECTION	DRAWING TYPE	BRIDGE/STRUCTURE No.	CONSULTANT DRAWING No.	SANRAL DOCUMENT #
R-101-080-2019/1	2	2	8	N/A	33532.00-110-10	VER G

SCALE	SHEET	NO OF 27
1:1000	10	27

WESTERN CAPE
Cape Town
Block B2, Edison Square
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Century City, 7446
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Fax: +27 (21) 527 7001

SANRAL
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

NORTHERN REGION
30 Ida Street
Menlo Park
Pretoria
6025
Private Bag X17
Lynnwood Ridge
0040
Tel: (012) 426 6200

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
Date: _____
for CEO: SA NATIONAL ROADS AGENCY SOC. LTD.

PROJECT DESCRIPTION
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)

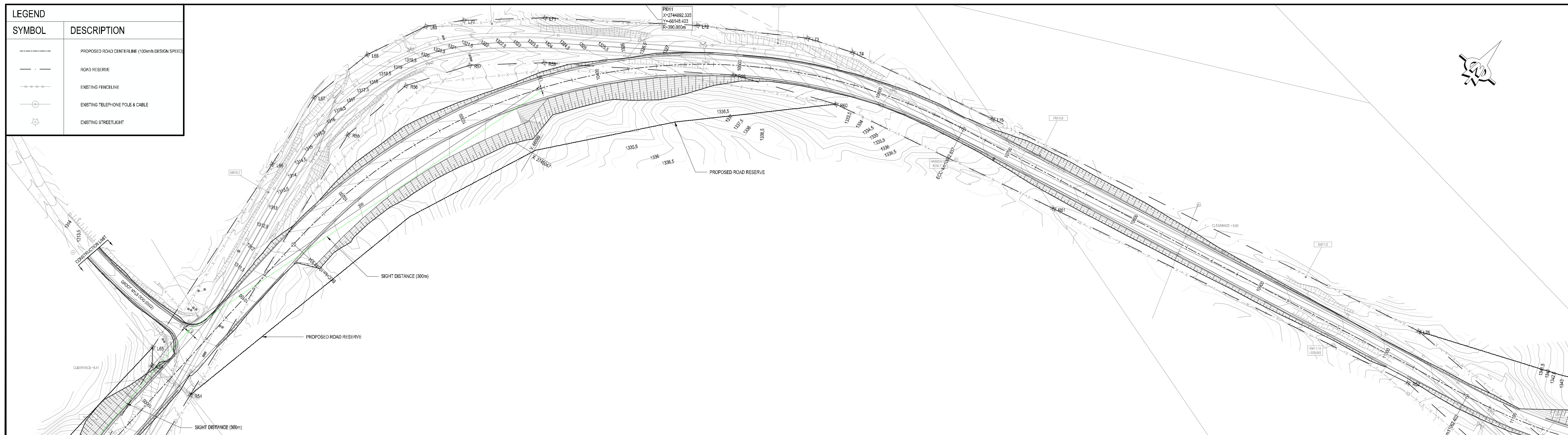
DRAWING NAME
PLAN & PROFILE

SCALE: 1:1000

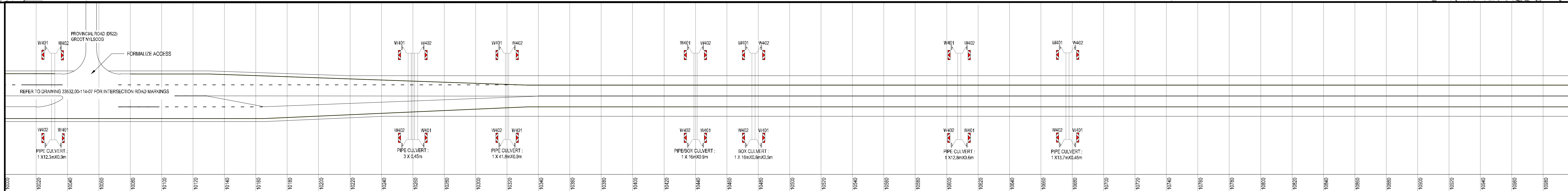
SHEET 10 OF 27

33532.00-110 (RURAL).DWG

SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCELINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREETLIGHT



SYMBOL	DESCRIPTION
	PROPOSED CULVERT
	EXISTING CULVERT
	PROPOSED GUARDRAIL
	EXISTING GUARDRAIL
	EXISTING FENCE LINE
	EXISTING TELEPHONE LINES
	EXISTING STREET LIGHTS
	ROAD SIGNS
	W401 (80x150)
	W402 (80x150)



CODE	THICKNESS / COLOUR	CONFIGURATION
WMS STANDARD	100mm / WHITE	4.6m LINE & 6.0m GAP
WMS STANDARD	300mm / WHITE	2.0m LINE & 4.0m GAP
WMS STANDARD	100mm / WHITE	2.0m LINE & 4.0m GAP
PM1	100mm / WHITE	SOLID LINE & 4.0m GAP
PM1.1	150mm / YELLOW	SOLID LINE
PM1.2	150mm / WHITE	SOLID LINE

SCALE	VERTICAL	HORIZONTAL
Vertical	1:200	1:1000
Horizontal	1:200	1:1000

DISTANCE (m)	GROUND LEVELS ON CL	FINAL DESIGN ROAD LEVELS	VERTICAL PROFILE GRADES	HORIZONTAL ALIGNMENT	SUPERELEVATION
1307.020	1307.020	1307.020	4.881%	R=360.000m	-2.0%
1307.020	1307.020	1307.020	10.176	R=360.000m	-2.0%
1307.020	1307.020	1307.020	3.482%	R=360.000m	-2.0%
1307.020	1307.020	1307.020	6.174%	R=360.000m	-2.0%
1307.020	1307.020	1307.020	10.770	R=360.000m	-2.0%
1307.020	1307.020	1307.020	1.345	R=360.000m	-2.0%
1307.020	1307.020	1307.020	3.22%	R=360.000m	-2.0%

No.	DATE	REVISION	CONSULT. ENG.
G	26/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
F	08/03/2021	STRIPMAP UPDATED	D.v.d.M
E	25/02/2021	VERTICAL REVISED	D.v.d.M
D	03/12/2020	VERTICAL REVISED	D.v.d.M
C	13/09/2020	HORIZONTAL REVISED TO 100KM/H @ MAX 8%	D.v.d.M
B	31/01/2020	HORIZONTAL REVISED	D.v.d.M
A	18/12/2019	ORIGINAL VERSION	D.v.d.M

CONSTRUCTION RECORD	DESIGNED BY	CONSULTANT APPROVAL
WORKS CONTRACT ENGINEER	D.v.d.MERNE	ANDRE GREYLING
Name:		Prof. Reg. No. 20120196
Date:		Prof. Reg. No. 20060025

WESTERN CAPE
 Cape Town
 Block B2, Edison Square
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 Website: www.bvw.co.za
 Tel: +27 (21) 527 7000
 Fax: +27 (21) 527 7001

NAME	CHECKED BY	DRAWN BY
D.v.d.MERNE	D.v.d.MERNE	SS.DLAMINI
Prof. Reg. No. 20120196	Prof. Reg. No. 20120196	

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 46 Tambulo Avenue
 Val de Grace
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 0184
 PO Box 415
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 Tel: (012) 844 8000

SANRAL
 SOUTH AFRICAN NATIONAL ROADS AGENCY
 BUILDING SOUTH AFRICA THROUGH BETTER ROADS

NORTHERN REGION
 30 Ida Street
 Menlo Park
 Pretoria
 6025
 Private Bag X17
 Lynnwood Ridge
 0040
 Tel: (012) 426 6200

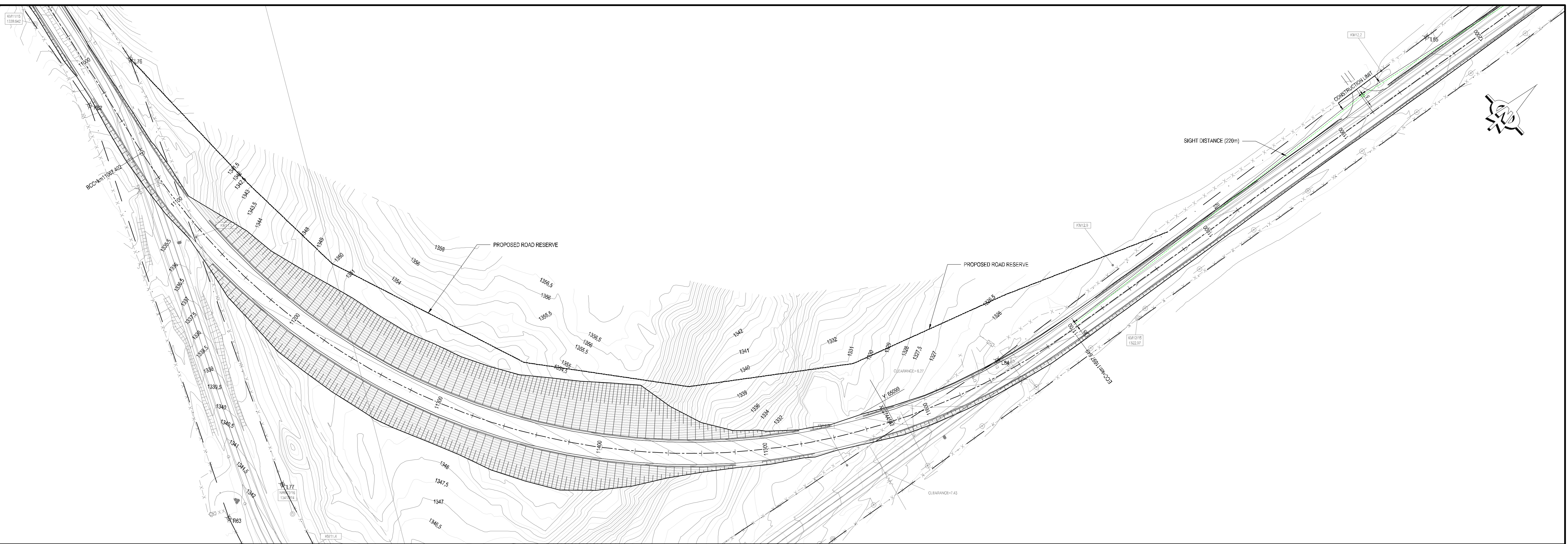
ACCEPTANCE
 THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWEVER ARISING
 for CEO: SA NATIONAL ROADS AGENCY SOC. LTD
 Date:

PROJECT DESCRIPTION	PROJECT NUMBER
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLE (KM 26.8)	R-101-080-2019/1
DRAWING NAME	DRAWING LOCATION DATA
PLAN & PROFILE	START 2 END 2
	SECTION 8
	DRAWING TYPE PLAN & PROFILE
	BRIDGE/STRUCTURE No. N/A
	CONSULTANT DRAWING No. PD 33532.00-110-11
	SANRAL DOCUMENT #

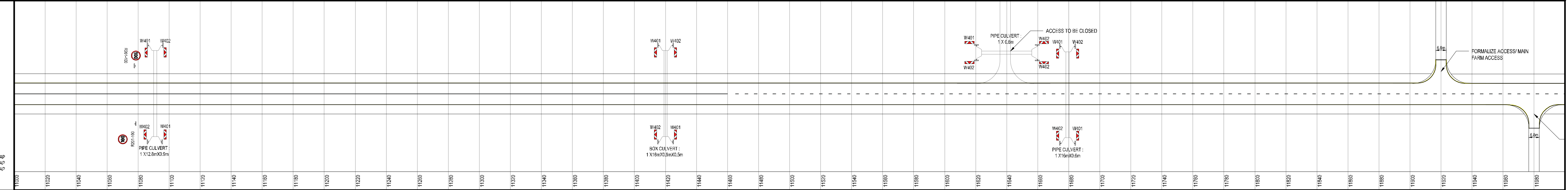
SCALE	SHEET	NO. OF SHEETS
1:1000	11 OF 27	

33532.00-110 (RURAL).DWG

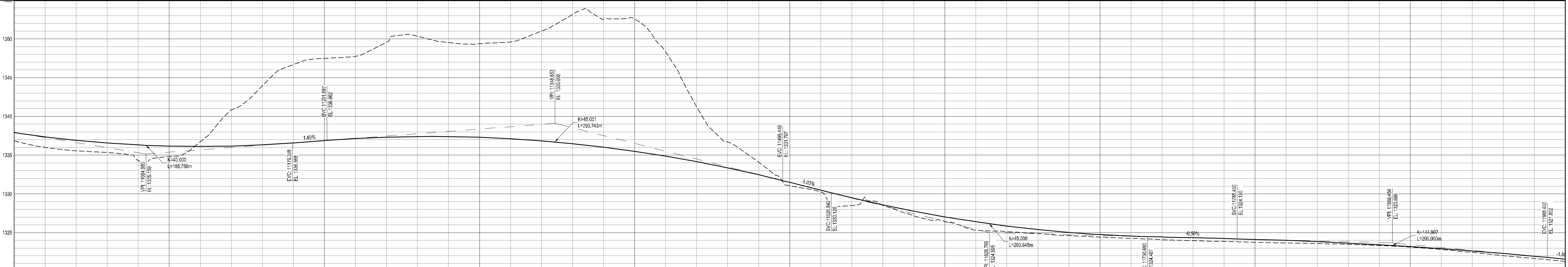
SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCE LINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREET LIGHT



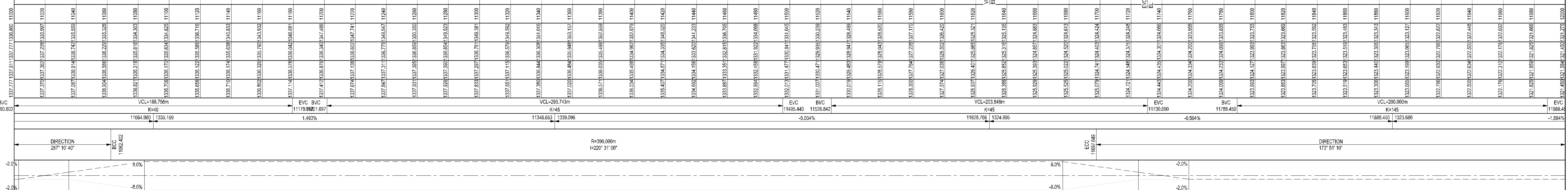
SYMBOL	DESCRIPTION
	PROPOSED CULVERT
	EXISTING CULVERT
	PROPOSED GUARDRAIL
	EXISTING GUARDRAIL
	EXISTING FENCE LINE
	EXISTING TELEPHONE LINES
	EXISTING STREET LIGHTS
	ROAD SIGNS W401 (80x150) W402 (80x150)
	ROAD MARKINGS (W401 - SAFETY) W401 W402
	ROAD MARKINGS (W402 - SAFETY) W401 W402
	ROAD MARKINGS (W401 - SAFETY) W401 W402
	ROAD MARKINGS (W402 - SAFETY) W401 W402



SYMBOL	DESCRIPTION
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALIGNMENT (CL)
	VERTICAL ALIGNMENT - 80km/h DESIGN SPEED



SYMBOL	DESCRIPTION
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALIGNMENT (CL)
	VERTICAL ALIGNMENT - 80km/h DESIGN SPEED



NO.	DATE	REVISION	CONSULT. ENG.
G	26/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
F	08/03/2021	STRIPMAP UPDATED	D.v.d.M
E	25/02/2021	VERTICAL REVISED	D.v.d.M
D	03/12/2020	VERTICAL REVISED	D.v.d.M
C	13/09/2020	HORIZONTAL REVISED TO 100KM/H @MAX 8%	D.v.d.M
B	31/01/2020	HORIZONTAL REVISED	D.v.d.M
A	18/12/2019	ORIGINAL VERSION	D.v.d.M

CONSTRUCTION RECORD	
WORKS CONTRACT ENGINEER	SANRAL PROJECT MANAGER
Name: K. K. K.	Name: S. S. S.
Date: 11/12/2021	Date: 11/12/2021

WESTERN CAPE
Cape Town
Block B2, Edison Square
c/o Edison Way & Century Avenue
Century City, 7441
P O Box 86
Century City, 7446
E-mail: cpi@bvw.co.za
Website: www.bvw.co.za
Tel: +27 (21) 527 7000
Fax: +27 (21) 527 7001

DESIGNED BY
NAME: D.v.d.MERNE
Prof. Reg. No.: 20120196

CHECKED BY
NAME: D.v.d.MERNE
Prof. Reg. No.: 20120196

DRAWN BY
NAME: S.S. CLAMINI

CONSULTANT APPROVAL
NAME: ANDRIE GREYLING
Prof. Reg. No.: 20060025

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Tel: (012) 844 8000

NORTHERN REGION
30 Ida Street
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00140
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for CEO: SA NATIONAL ROADS AGENCY SOC. LTD
Date:

PROJECT DESCRIPTION
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)

DRAWING NAME
PLAN & PROFILE

PROJECT NUMBER
DRAWING LOCATION DATA
ROUTE SECTION
DRAWING TYPE
BRIDGE/STRUCTURE No.
CONSULTANT DRAWING No.
SCALE: 1:1000

R.101-080-2019/1
START END
2 2
8 8
PLAN & PROFILE
N/A
33532.00-110-12
VER G

SHEET 12 OF 27

SANRAL
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

NORTHERN REGION
30 Ida Street
Menlo Park
Pretoria
6025
Private Bag X17
Lynnwood Ridge
00140
Tel: (012) 426 6200

PROJECT DESCRIPTION
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)

DRAWING NAME
PLAN & PROFILE

PROJECT NUMBER
DRAWING LOCATION DATA
ROUTE SECTION
DRAWING TYPE
BRIDGE/STRUCTURE No.
CONSULTANT DRAWING No.
SCALE: 1:1000

R.101-080-2019/1
START END
2 2
8 8
PLAN & PROFILE
N/A
33532.00-110-12
VER G

SHEET 12 OF 27

CONSTRUCTION RECORD

WORKS CONTRACT ENGINEER
Name: K. K. K.
Date: 11/12/2021

SANRAL PROJECT MANAGER
Name: S. S. S.
Date: 11/12/2021

WESTERN CAPE
Cape Town
Block B2, Edison Square
c/o Edison Way & Century Avenue
Century City, 7441
P O Box 86
Century City, 7446
E-mail: cpi@bvw.co.za
Website: www.bvw.co.za
Tel: +27 (21) 527 7000
Fax: +27 (21) 527 7001

DESIGNED BY
NAME: D.v.d.MERNE
Prof. Reg. No.: 20120196

CHECKED BY
NAME: D.v.d.MERNE
Prof. Reg. No.: 20120196

DRAWN BY
NAME: S.S. CLAMINI

CONSULTANT APPROVAL
NAME: ANDRIE GREYLING
Prof. Reg. No.: 20060025

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46 Tamborlo Avenue
Val de Grace
Pretoria
0184
PO Box 415
Pretoria 0001
South Africa
Tel: (012) 844 8000

NORTHERN REGION
30 Ida Street
Menlo Park
Pretoria
6025
Private Bag X17
Lynnwood Ridge
00140
Tel: (012) 426 6200

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 CEO: SA NATIONAL ROADS AGENCY SOC. LTD
Date:

PROJECT DESCRIPTION
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)

DRAWING NAME
PLAN & PROFILE

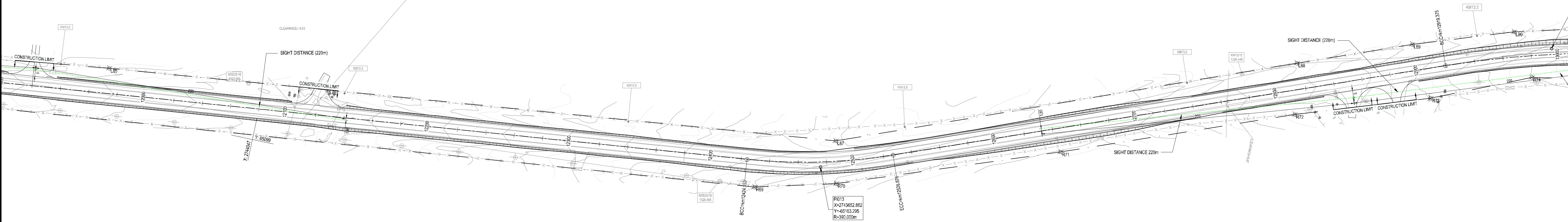
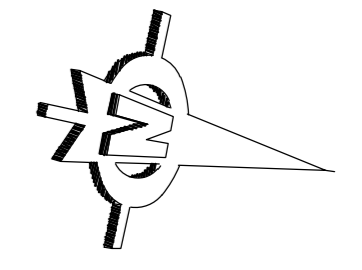
PROJECT NUMBER
DRAWING LOCATION DATA
ROUTE SECTION
DRAWING TYPE
BRIDGE/STRUCTURE No.
CONSULTANT DRAWING No.
SCALE: 1:1000

R.101-080-2019/1
START END
2 2
8 8
PLAN & PROFILE
N/A
33532.00-110-12
VER G

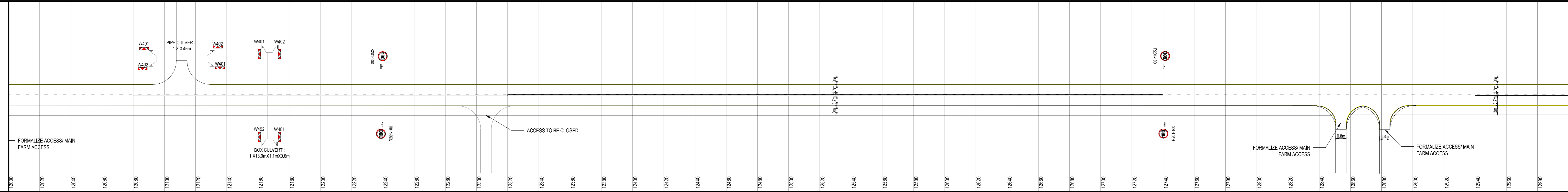
SHEET 12 OF 27

33532.00-110 (RURAL).DWG

LEGEND table with SYMBOL and DESCRIPTION columns.



LEGEND table for various road elements like proposed/existing culverts, guardrails, and road markings.



PROFILE LEGEND table for NBL, proposed road top surface, and alignment.

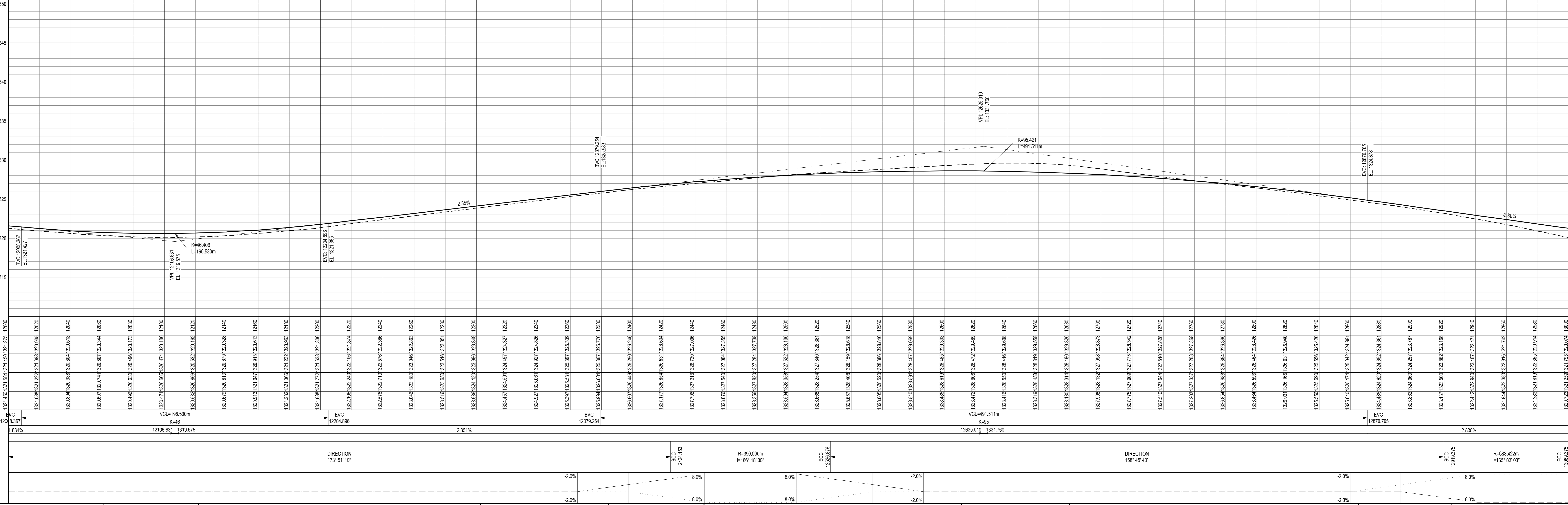
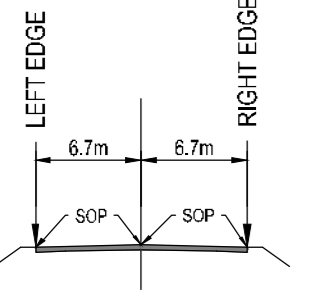


Table with columns: DISTANCE (m), GROUND LEVELS ON CL, FINAL DESIGN ROAD LEVELS, and VERTICAL PROFILE GRADES.

Table with columns: No., DATE, REVISION, CONSULT. ENG.

Table with columns: CONSTRUCTION RECORD, SANRAL PROJECT MANAGER, and Date.

Logos for CESA and bvi 50th Anniversary.

Table with columns: DESIGNED BY, CONSULTANT APPROVAL, and DRAWN BY.

WESTERN CAPE Cape Town, Block B2, Edison Way & Century Avenue, Century City, 7441

SANRAL logo and contact information for Northern Region.

NORTHERN REGION 30 Ida Street, Menlo Park, Pretoria, 0184

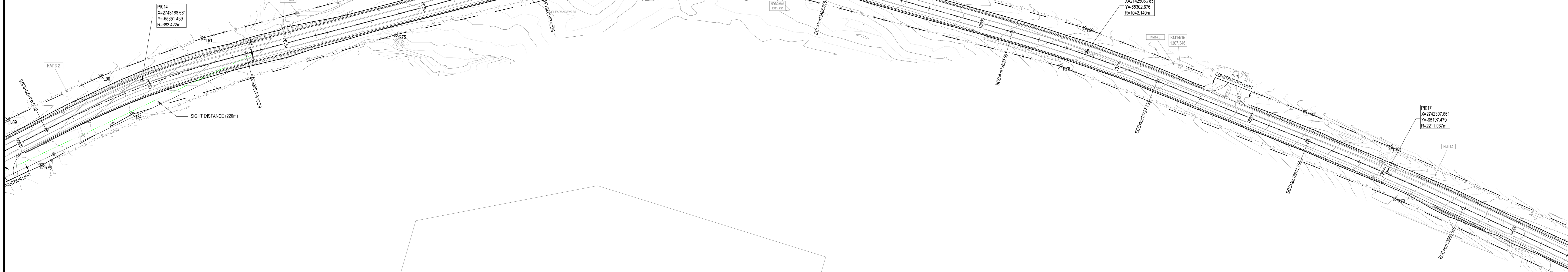
ACCEPTANCE text: THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY...

PROJECT DESCRIPTION table with DRAWING NAME, PLAN & PROFILE, and SCALE: 1:1000.

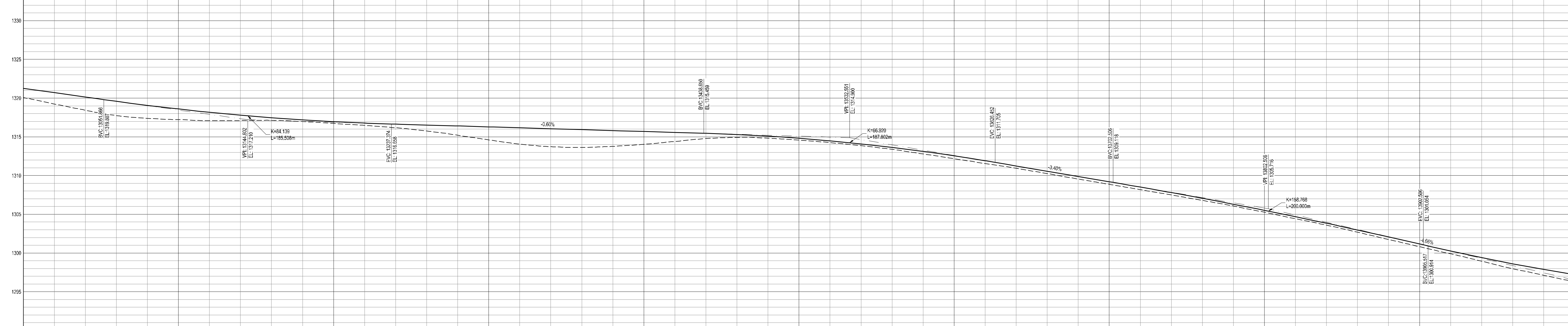
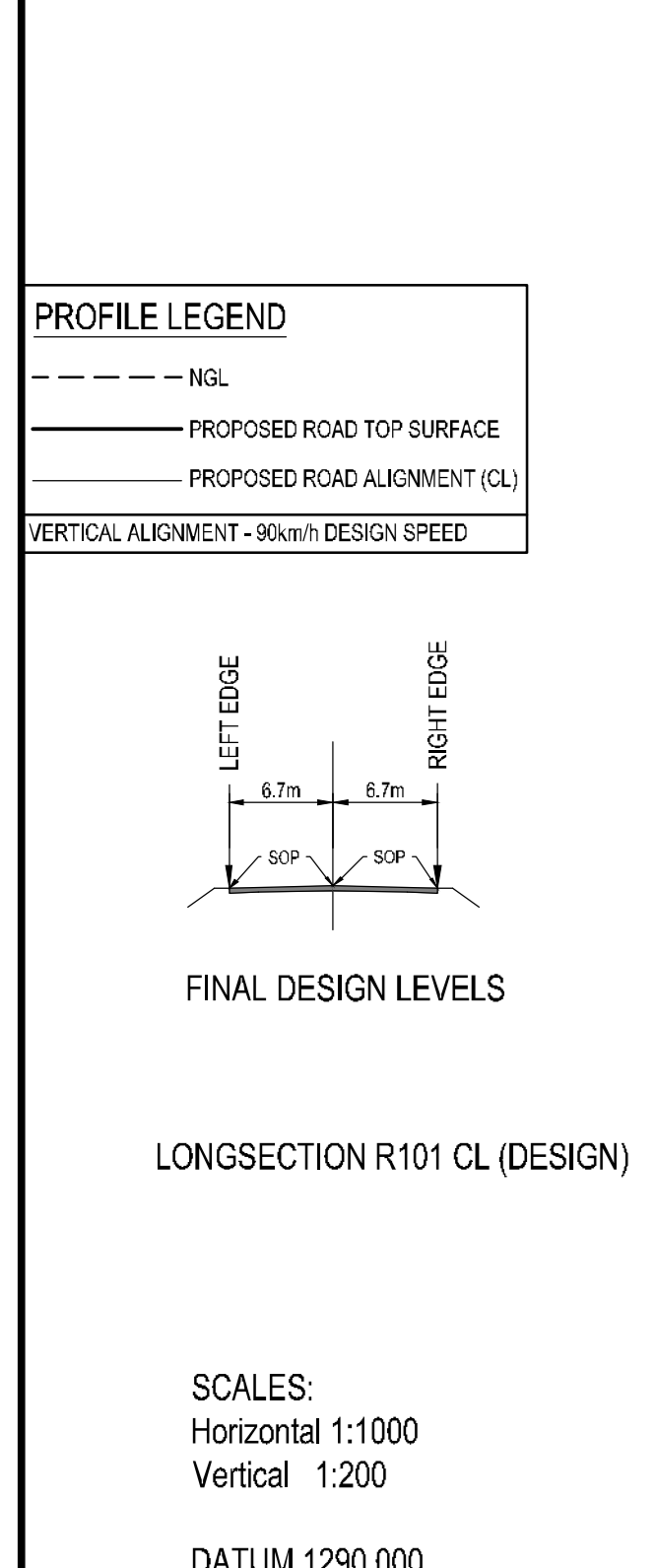
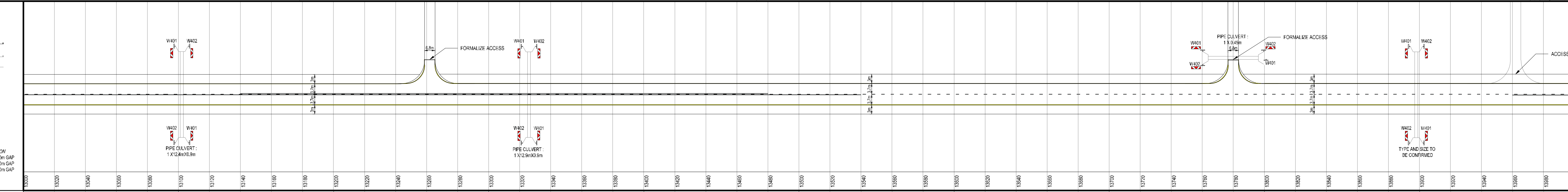
PROJECT NUMBER table with ROUTE, SECTION, DRAWING TYPE, and CONSULTANT DOCUMENT #.

33532.00-110 (RURAL).DWG

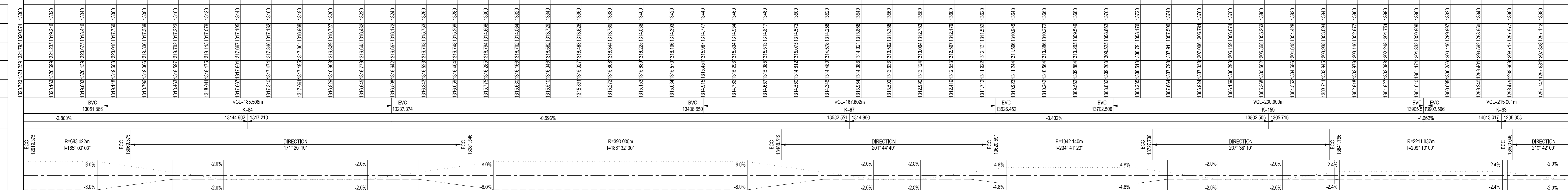
LEGEND	
SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCELINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREET LIGHT



LEGEND		
	PROPOSED CULVERT	
	EXISTING CULVERT	
	PROPOSED GUARDRAIL	
	EXISTING GUARDRAIL	
	EXISTING FENCE LINE	
	EXISTING TELEPHONE LINES	
	EXISTING STREET LIGHTS	
	ROAD MARKINGS (REF. SARTS)	
W401 (50x150)	W402 (50x150)	
CODE	THICKNESS / COLOUR	CONFIGURATION
WMS STANDARD	100mm WHITE	4.0m LINE & 6.0m GAP
WMS STANDARD	300mm WHITE	2.0m LINE & 4.0m GAP
OW STANDARD	100mm WHITE	2.0m LINE & 4.0m GAP
PM1	100mm WHITE	SOLID LINE
PM1.5	150mm YELLOW	SOLID LINE
PM2	150mm WHITE	SOLID LINE



LEGEND	
	NEL
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALIGNMENT (CL)
VERTICAL ALIGNMENT - 80km/h DESIGN SPEED	

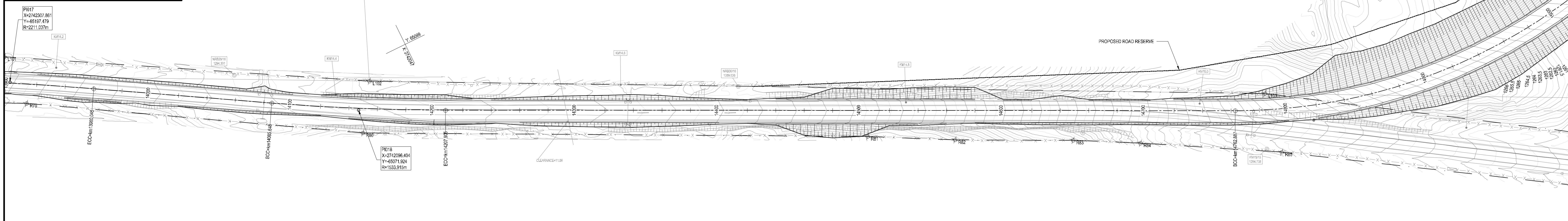


REVISION		CONSULT. ENG.	
No.	DATE	REVISION	CONSULT. ENG.
G	26/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M.
F	08/03/2021	STRIPMAP UPDATED	D.v.d.M.
E	25/02/2021	VERTICAL REVISED	D.v.d.M.
D	03/12/2020	HORIZONTAL REVISED TO 100KM/H eMAX 8%	D.v.d.M.
C	13/09/2020	HORIZONTAL REVISED TO 100KM/H eMAX 8%	D.v.d.M.
B	31/01/2020	HORIZONTAL REVISED	D.v.d.M.
A	18/12/2019	ORIGINAL VERSION	D.v.d.M.

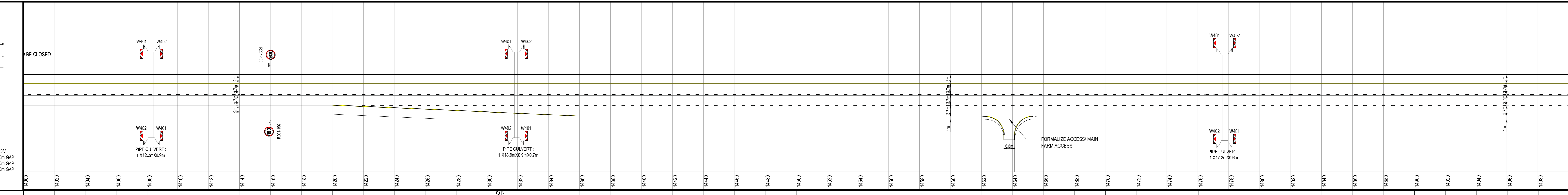
WESTERN CAPE Cape Town Block B2, Edison Square c/o Edison Way & Century Avenue Century City, 7441 P O Box 86 Century City, 7446 E-mail: cp@bviwcc.co.za Website: www.bviwcc.co.za Tel: +27 (21) 527 7000 Fax: +27 (21) 527 7001	DESIGNED BY NAME: D.v.d.MERNE Prof. Reg. No.: 2020196 CHECKED BY: D.v.d.MERNE Prof. Reg. No.: 2020196 DRAWN BY: SS. CLAMINI	CONSULTANT APPROVAL NAME: ANDRIE GREYLING Prof. Reg. No.: 2006025	HEAD OFFICE 46 Tambora Avenue Val de Grace Pretoria 0184 PO Box 415 Pretoria 0001 South Africa Tel: (012) 844 8000	NORTHERN REGION 38 Ida Street Menlo Park Pretoria 6025 Private Bag X17 Lynnwood Ridge 0040 Tel: (012) 426 6200	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 CEO: SA NATIONAL ROADS AGENCY SOC. LTD. Date:	PROJECT DESCRIPTION IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)	PROJECT NUMBER R-101-080-2019/1	DRAWING LOCATION DATA ROUTE: 2 SECTION: 8 DRAWING TYPE: PLAN & PROFILE BRIDGE/STRUCTURE No.: N/A CONSULTANT DRAWING No.: PD SANRAL DOCUMENT # : 35352.00-110-14	START : 2 END : 2 PLAN & PROFILE N/A VER G

35352.00-110 (RURAL).DWG

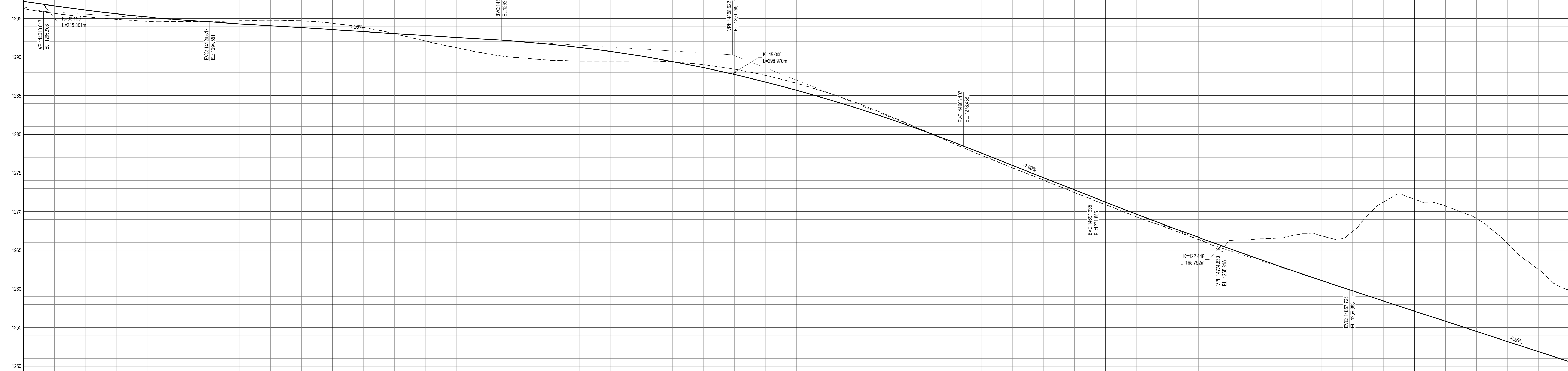
SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCELINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREET LIGHT



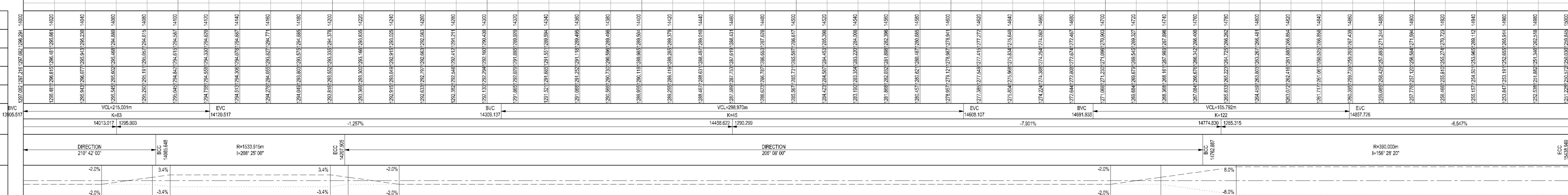
SYMBOL	DESCRIPTION
	PROPOSED CULVERT
	EXISTING CULVERT
	PROPOSED GUARDRAIL
	EXISTING GUARDRAIL
	EXISTING FENCE LINE
	EXISTING TELEPHONE LINES
	EXISTING STREET LIGHTS
	ROAD BRUSH
	W401 (80x150)
	W402 (80x150)



SYMBOL	DESCRIPTION
	NEL
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALLOWANCE (CL)



DISTANCE (m)	GROUND LEVEL ON CL	FINAL DESIGN ROAD LEVELS
14000	1200.00	1200.00
14050	1205.00	1205.00
14100	1210.00	1210.00
14150	1215.00	1215.00
14200	1220.00	1220.00
14250	1225.00	1225.00
14300	1230.00	1230.00
14350	1235.00	1235.00
14400	1240.00	1240.00
14450	1245.00	1245.00
14500	1250.00	1250.00
14550	1255.00	1255.00
14600	1260.00	1260.00
14650	1265.00	1265.00
14700	1270.00	1270.00
14750	1275.00	1275.00
14800	1280.00	1280.00
14850	1285.00	1285.00
14900	1290.00	1290.00



No.	DATE	REVISION	CONSULT. ENG.
G	26/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
F	08/03/2021	STRIPMAP UPDATED	D.v.d.M
E	25/02/2021	VERTICAL REVISED	D.v.d.M
D	03/12/2020	VERTICAL REVISED	D.v.d.M
C	13/09/2020	HORIZONTAL REVISED TO 100KM/H @MAX 8%	D.v.d.M
B	31/01/2020	HORIZONTAL REVISED	D.v.d.M
A	18/12/2019	ORIGINAL VERSION	D.v.d.M

CONSTRUCTION RECORD	
WORKS CONTRACT ENGINEER	Name: _____
SANRAL PROJECT MANAGER	Name: _____

WESTERN CAPE
Cape Town
Block B2, Edison Square
c/o Edison Way & Century Avenue
Century City, 7441
P O Box 86
Century City, 7446
E-mail: cp@bwinvc.co.za
WebSite: www.bwinvc.co.za
Tel: +27 (21) 527 7000
Fax: +27 (21) 527 7001

DESIGNED BY	
NAME	D.v.d.MERNE
Prof. Reg. No.	20120196
CHECKED BY	
NAME	D.v.d.MERNE
Prof. Reg. No.	20120196
DRAWN BY	
NAME	SS. CLAMINI

CONSULTANT APPROVAL	
NAME	ANDRIE GREYLING
Prof. Reg. No.	20060025

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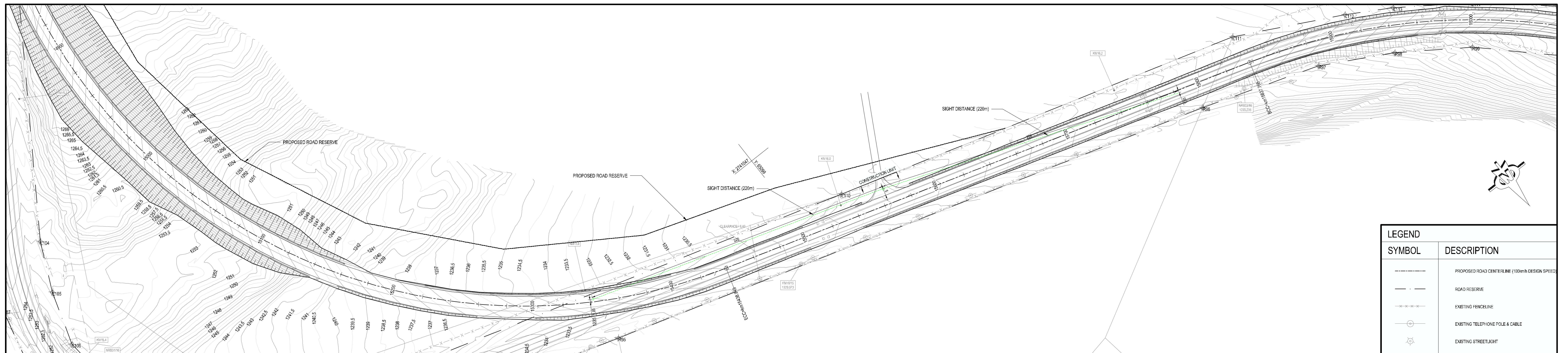
ACCEPTANCE
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Date: _____
By: CEO: SA NATIONAL ROADS AGENCY SOC. LTD.

PROJECT DESCRIPTION
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)

DRAWING NAME
PLAN & PROFILE

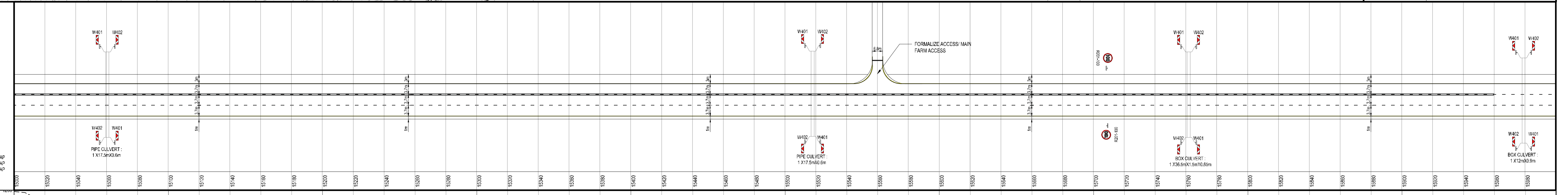
SCALE: 1:1000

PROJECT NUMBER	R-101-080-2019/1	
DRAWING LOCATION DATA	START	END
ROUTE	2	2
SECTION	8	8
DRAWING TYPE	PLAN & PROFILE	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	PD	33532.00-110-15
SANRAL DOCUMENT #	VER G	

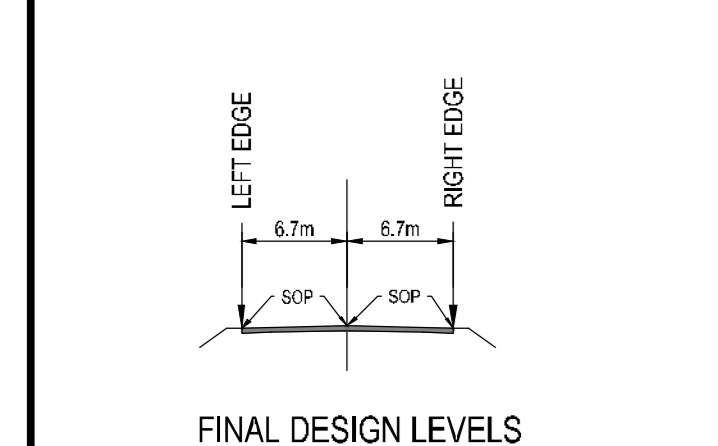


LEGEND	
SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCELINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREETLIGHT

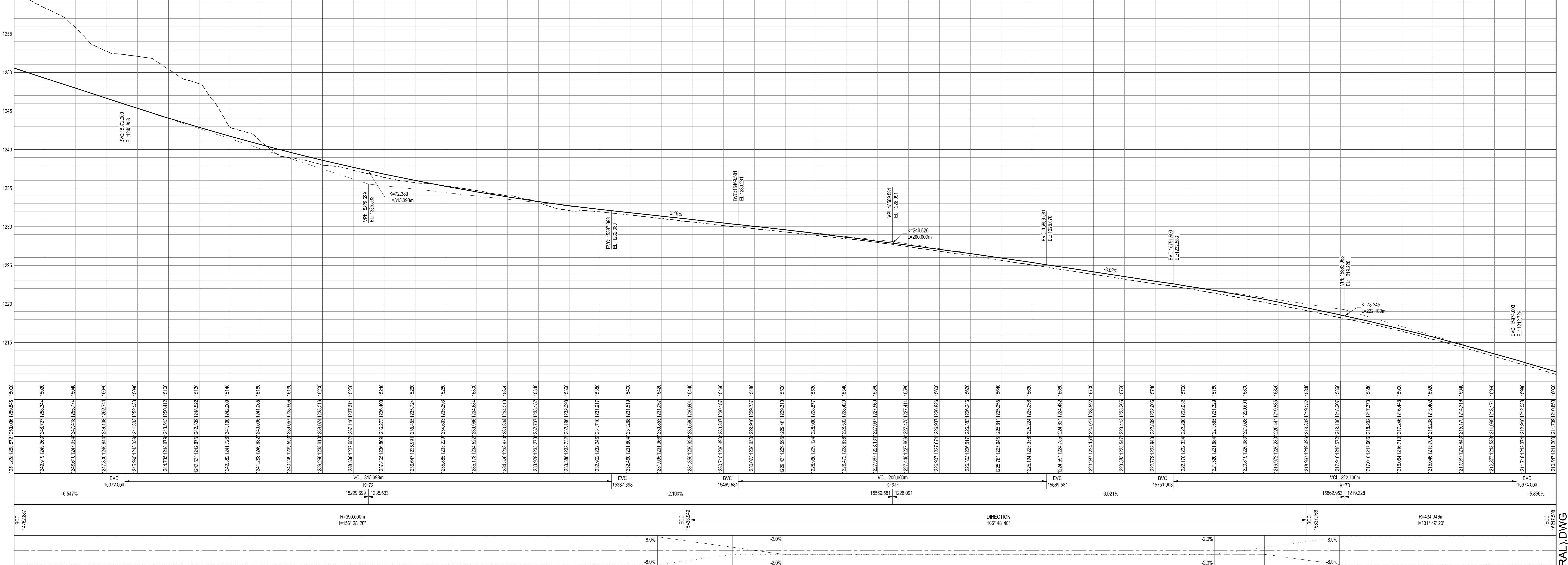
LEGEND		
	PROPOSED CULVERT	
	EXISTING CULVERT	
	PROPOSED GUARDRAIL	
	EXISTING GUARDRAIL	
	EXISTING FENCE LINE	
	EXISTING TELEPHONE LINES	
	EXISTING STREET LIGHTS	
	ROAD BRIMS	
	W401 (80x150)	
	W402 (80x150)	
	ROAD MARKINGS (REF. SARTSM)	
CODE	THICKNESS / COLOUR	CONFIGURATION
W401 STANDARD	100mm WHITE	4.0m LINE & 8.0m GAP
W402 STANDARD	300mm WHITE	2.5m LINE & 4.0m GAP
CM1 STANDARD	100mm WHITE	2.5m LINE & 4.0m GAP
PM1.1	100mm WHITE	SOLID LINE
PM1.2	150mm YELLOW	SOLID LINE
PM2	150mm WHITE	SOLID LINE



PROFILE LEGEND	
	NEL
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALLOWMENT (CL)
	VERTICAL ALIGNMENT - 80km/h DESIGN SPEED



LONGSECTION R101 CL (DESIGN)	
SCALES:	Horizontal 1:1000 Vertical 1:200
DATUM 1210.000	



DISTANCE (m)	GROUND LEVELS ON CL	FINAL DESIGN ROAD LEVELS	VERTICAL PROFILE GRADES	HORIZONTAL ALIGNMENT	SUPERELEVATION
15100	1250.00	1250.00	4.547%	R=900.000m L=150° 20' 20"	8.0%
15200	1250.00	1250.00	15229.699 1255.533		8.0%
15300	1250.00	1250.00	-2.180%		-2.0%
15400	1250.00	1250.00	15566.581 1228.091		-2.0%
15500	1250.00	1250.00	-3.021%		-2.0%
15600	1250.00	1250.00	15862.563 1219.228		8.0%
15700	1250.00	1250.00	-5.859%		-2.0%
15800	1250.00	1250.00			8.0%
15900	1250.00	1250.00			8.0%

No.	DATE	REVISION	CONSULT. ENG.
G	26/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
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E	25/02/2021	VERTICAL REVISED	D.v.d.M
D	03/12/2020	VERTICAL REVISED	D.v.d.M
C	13/09/2020	HORIZONTAL REVISED TO 100KM/H @MAX 8%	D.v.d.M
B	31/01/2020	HORIZONTAL REVISED	D.v.d.M
A	18/12/2019	ORIGINAL VERSION	D.v.d.M

CONSTRUCTION RECORD	
WORKS CONTRACT ENGINEER	Name: _____ Date: _____
SANRAL PROJECT MANAGER	Name: _____ Date: _____

WESTERN CAPE
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Date: _____

PROJECT DESCRIPTION
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)

DRAWING NAME
PLAN & PROFILE

PROJECT NUMBER
R-101-080-2019/1

DRAWING LOCATION DATA	START	END
ROUTE	2	2
SECTION	8	8
DRAWING TYPE	PLAN & PROFILE	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	PD	33532.00-110-16
SANRAL DOCUMENT #		

SCALE: 1:1000 SHEET 16 OF 27

WESTERN CAPE
Cape Town
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Century City, 7441
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IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)

DRAWING NAME
PLAN & PROFILE

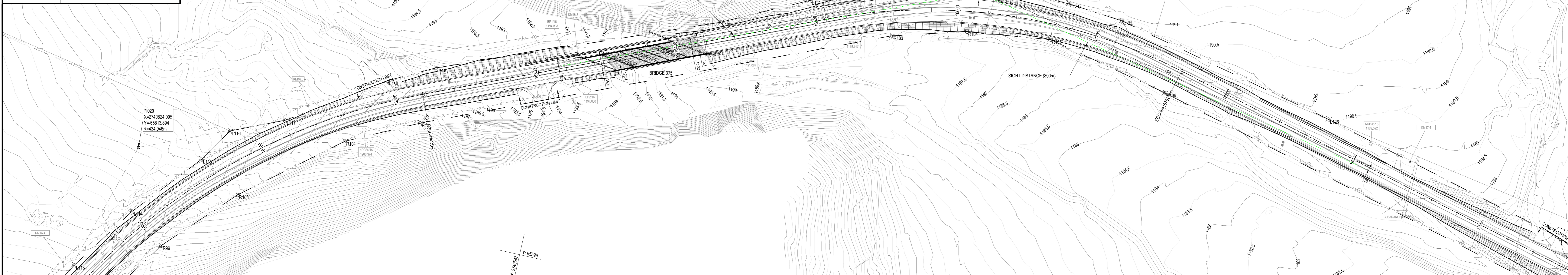
PROJECT NUMBER
R-101-080-2019/1

DRAWING LOCATION DATA	START	END
ROUTE	2	2
SECTION	8	8
DRAWING TYPE	PLAN & PROFILE	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	PD	33532.00-110-16
SANRAL DOCUMENT #		

SCALE: 1:1000 SHEET 16 OF 27

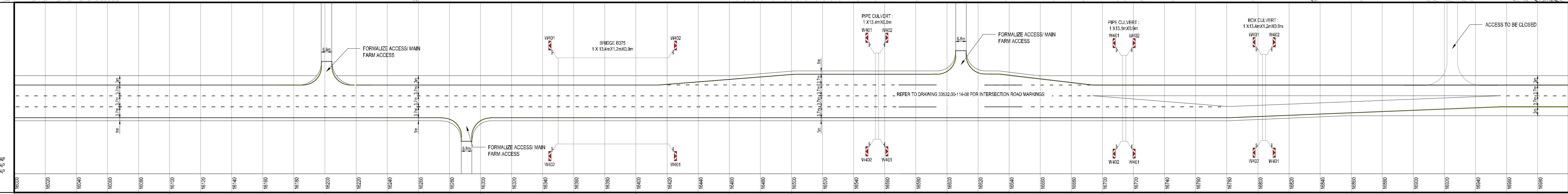
33532.00-110 (RURAL).DWG

SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCE LINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREET LIGHT

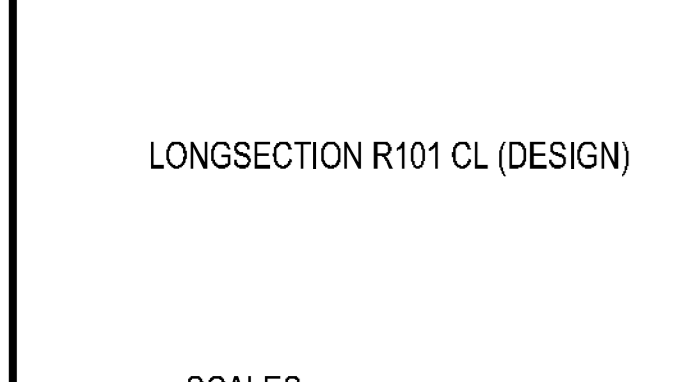
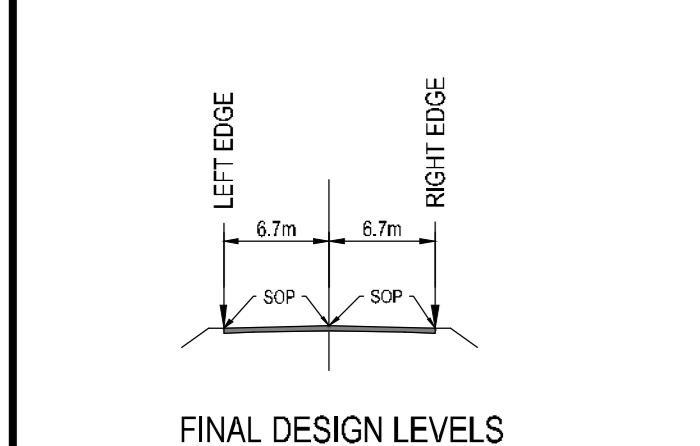


SYMBOL	DESCRIPTION
	PROPOSED CULVERT
	EXISTING CULVERT
	PROPOSED GUARDRAIL
	EXISTING GUARDRAIL
	EXISTING FENCE LINE
	EXISTING TELEPHONE LINES
	EXISTING STREET LIGHTS
	ROAD MARKS
	W401 (80x15)
	W402 (80x15)
	ROAD MARKINGS (REF. SARTSM)

CODE	THICKNESS / COLOUR	CONFIGURATION
WMS STANDARD	100mm WHITE	4.0m LINE & 6.0m GAP
WMD STANDARD	300mm WHITE	2.0m LINE & 4.0m GAP
OWM STANDARD	100mm WHITE	2.0m LINE & 4.0m GAP
PM1	100mm WHITE	SOLID LINE
PM1.5	150mm YELLOW	SOLID LINE
PM2	150mm WHITE	SOLID LINE



SYMBOL	DESCRIPTION
	NEL
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALIGNMENT (CL)



SCALES:
Horizontal 1:1000
Vertical 1:200

DATUM 1180.000

DISTANCE (m)	GROUND LEVELS ON CL	FINAL DESIGN ROAD LEVELS	VERTICAL PROFILE GRADES	HORIZONTAL ALIGNMENT	SUPERELEVATION	
	LEFT EDGE (HL)	CENTRE LINE (CL)	RIGHT EDGE (HR)		LEFT	RIGHT
19100	1195.5	1195.5	1195.5	R=434.940m L=131.49' 27"	8.0%	-2.0%
19150	1195.0	1195.0	1195.0	ECC 16317.292	8.0%	-2.0%
19200	1194.5	1194.5	1194.5		8.0%	-2.0%
19250	1194.0	1194.0	1194.0		8.0%	-2.0%
19300	1193.5	1193.5	1193.5		8.0%	-2.0%
19350	1193.0	1193.0	1193.0		8.0%	-2.0%
19400	1192.5	1192.5	1192.5		8.0%	-2.0%
19450	1192.0	1192.0	1192.0		8.0%	-2.0%
19500	1191.5	1191.5	1191.5		8.0%	-2.0%
19550	1191.0	1191.0	1191.0		8.0%	-2.0%
19600	1190.5	1190.5	1190.5		8.0%	-2.0%
19650	1190.0	1190.0	1190.0		8.0%	-2.0%
19700	1189.5	1189.5	1189.5		8.0%	-2.0%
19750	1189.0	1189.0	1189.0		8.0%	-2.0%
19800	1188.5	1188.5	1188.5		8.0%	-2.0%
19850	1188.0	1188.0	1188.0		8.0%	-2.0%
19900	1187.5	1187.5	1187.5		8.0%	-2.0%
19950	1187.0	1187.0	1187.0		8.0%	-2.0%

No.	DATE	REVISION	CONSULT. ENG.
G	26/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
F	08/03/2021	STRIPMAP UPDATED	D.v.d.M
E	25/02/2021	VERTICAL REVISED	D.v.d.M
D	03/12/2020	VERTICAL REVISED	D.v.d.M
C	13/09/2020	HORIZONTAL REVISED TO 100KM/H @MAX 8%	D.v.d.M
B	31/01/2020	HORIZONTAL REVISED	D.v.d.M
A	18/12/2019	ORIGINAL VERSION	D.v.d.M

CONSTRUCTION RECORD
WORKS CONTRACT ENGINEER

Name: _____
Date: _____

SANRAL PROJECT MANAGER

Name: _____
Date: _____

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Cape Town
Block B2, Edison Square
c/o Edison Way & Century Avenue
Century City, 7441

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Engineering • Procurement • Management
Registrations: 1998/001/5767

DESIGNED BY
NAME: D.v.d.MERNE
Prof. Reg. No.: 20120196

CHECKED BY
NAME: D.v.d.MERNE
Prof. Reg. No.: 20120196

DRAWN BY
NAME: S.S. CLAMINI

CONSULTANT APPROVAL
NAME: ANDRÉ GREYLING
Prof. Reg. No.: 20060025

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0040

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for CEO: SA NATIONAL ROADS AGENCY SOC LTD.
Date: _____

PROJECT DESCRIPTION

IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)

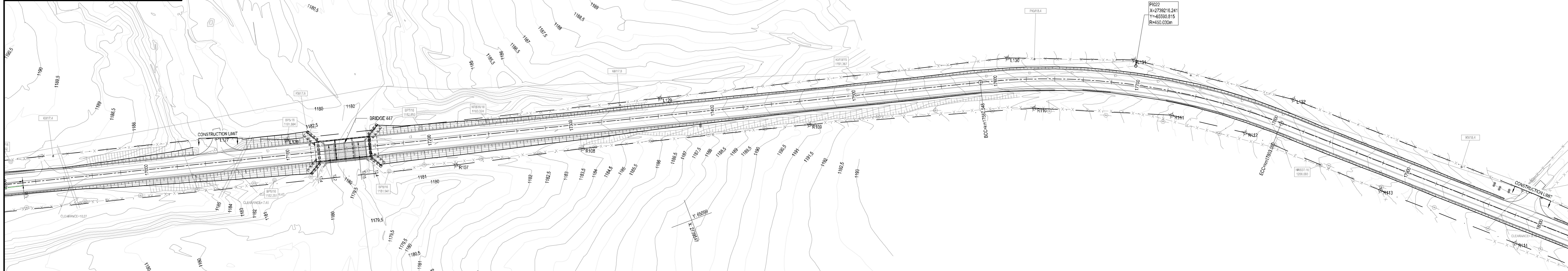
DRAWING NAME
PLAN & PROFILE

PROJECT NUMBER	R-101-080-2019/1
DRAWING LOCATION DATA	START 2 END 2
ROUTE SECTION	8
DRAWING TYPE	PLAN & PROFILE
BRIDGE/STRUCTURE No.	N/A
CONSULTANT DRAWING No.	33532.00-110-17
SANRAL DOCUMENT #	

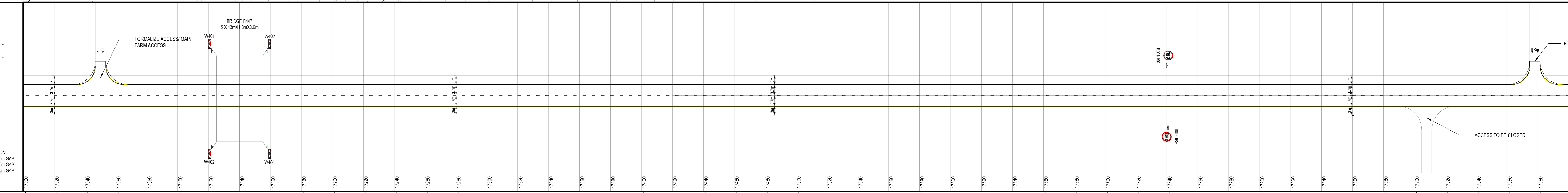
SCALE: 1:1000 SHEET 17 OF 27

33532.00-110 (RURAL).DWG

SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCE LINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREET LIGHT

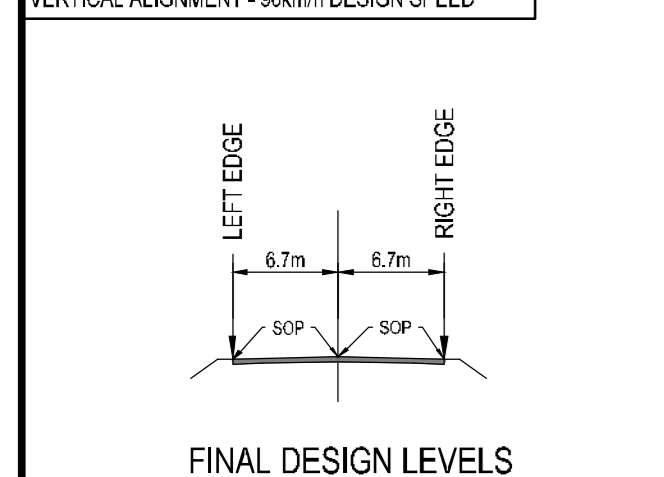


SYMBOL	DESCRIPTION
	PROPOSED CULVERT
	EXISTING CULVERT
	PROPOSED GUARDRAIL
	EXISTING GUARDRAIL
	EXISTING FENCE LINE
	EXISTING TELEPHONE LINES
	EXISTING STREET LIGHTS
	W401 (80x150)
	W402 (80x150)
	W403 (80x150)



CODE	THICKNESS / COLOUR	CONFIGURATION
WMS STANDARD	100mm WHITE	4.0m LINE & 6.0m GAP
WMS STANDARD	300mm WHITE	2.0m LINE & 4.0m GAP
OW STANDARD	100mm WHITE	2.0m LINE & 4.0m GAP
PM1	100mm WHITE	SOLID LINE
PM4.1	150mm YELLOW	SOLID LINE
PM4.2	150mm WHITE	SOLID LINE

SYMBOL	DESCRIPTION
	NBL
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALIGNMENT (CL)

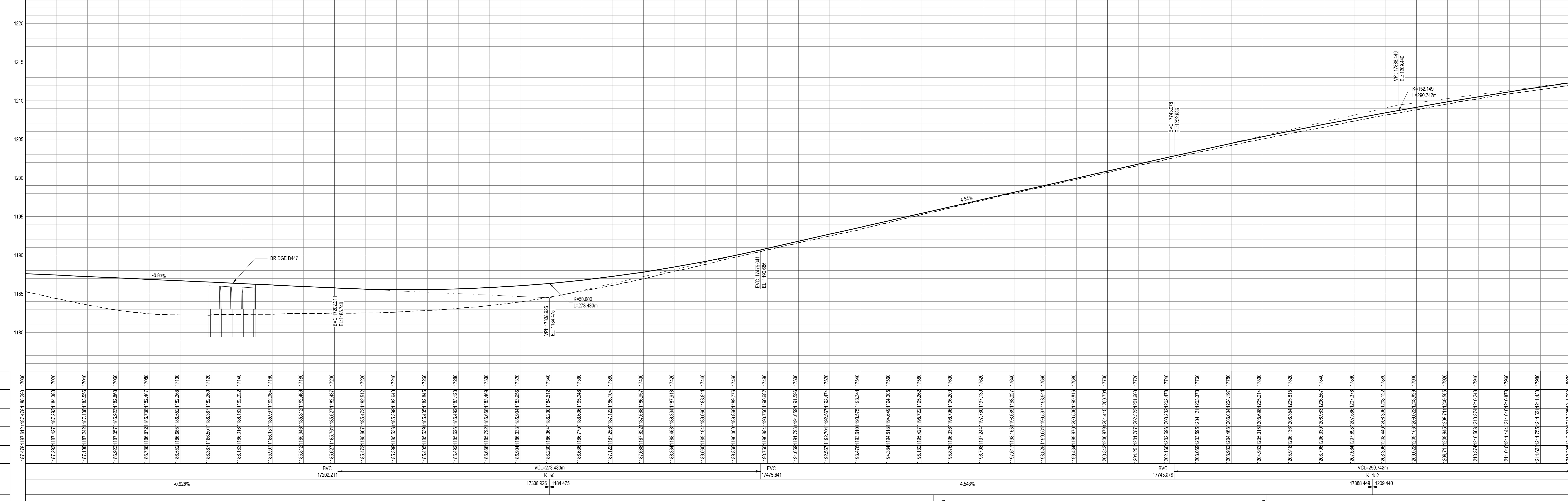


FINAL DESIGN LEVELS

LONGSECTION R101 CL (DESIGN)

SCALES:
Horizontal 1:1000
Vertical 1:200

DATUM 1175.000



DISTANCE (m)	GROUND LEVELS ON CL
	LEFT EDGE (HL)
	CENTRE LINE (CL)
	RIGHT EDGE (HR)

NO.	DATE	REVISION	CONSULT. ENG.
G	26/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
F	08/03/2021	STRIPMAP UPDATED	D.v.d.M
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B	31/01/2020	HORIZONTAL REVISED	D.v.d.M
A	18/12/2019	ORIGINAL VERSION	D.v.d.M

CONSTRUCTION RECORD	DESIGNED BY	CONSULTANT APPROVAL
WORKS CONTRACT ENGINEER	NAME: D.v.d.MERNE Prof. Reg. No.: 20120196	NAME: ANDRIE GREYLING Prof. Reg. No.: 20060025
SANRAL PROJECT MANAGER	CHECKED BY: D.v.d.MERNE Prof. Reg. No.: 20120196	DRAWN BY: SS. CLAMINI

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for CEO: SA NATIONAL ROADS AGENCY SOC. LTD.
Date:

PROJECT DESCRIPTION
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)

DRAWING NAME
PLAN & PROFILE

PROJECT NUMBER
R-101-080-2019/1

DRAWING LOCATION DATA

ROUTE	START	END
2	2	2

DRAWING TYPE
PLAN & PROFILE

BRIDGE/STRUCTURE No.
N/A

CONSULTANT DRAWING No.
PD 33532.00-110- 18

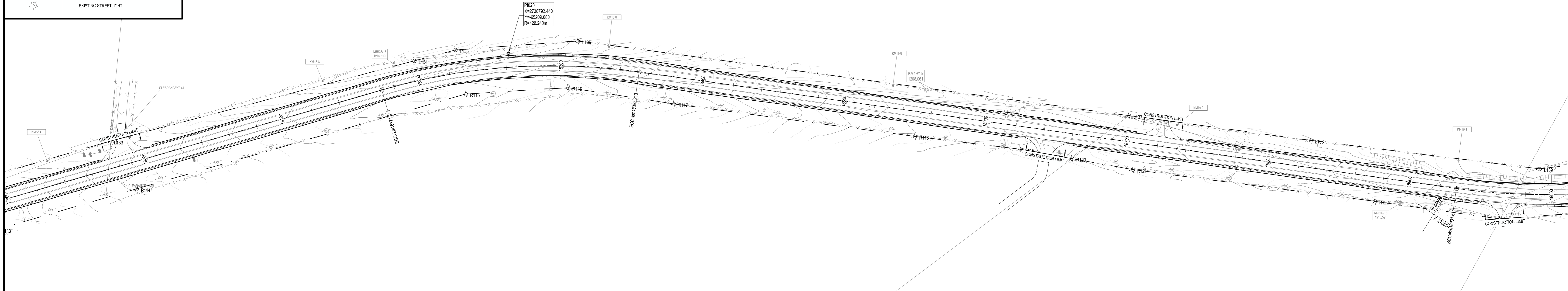
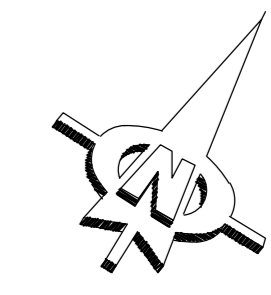
SANRAL DOCUMENT #
33532.00-110 (RURAL).DWG

SCALE: 1:1000

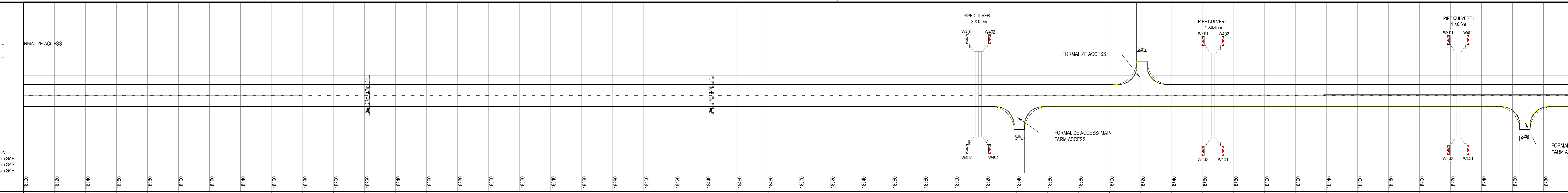
SHEET 18 OF 27

VER G

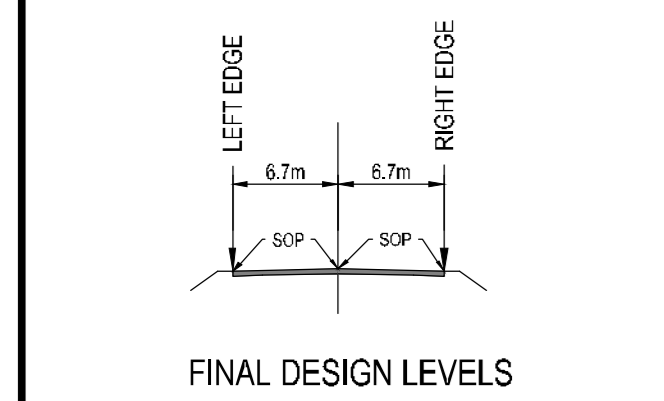
SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCE LINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREET LIGHT



CODE	THICKNESS / COLOUR	CONFIGURATION
WMS STANDARD	100mm WHITE	4.0m LINE & 8.0m GAP
WMS STANDARD	300mm WHITE	2.0m LINE & 4.0m GAP
OW STANDARD	100mm WHITE	4.0m LINE & 8.0m GAP
PM1	100mm WHITE	SOLID LINE
PM1.1	150mm YELLOW	SOLID LINE
PM1.2	150mm WHITE	SOLID LINE



SYMBOL	DESCRIPTION
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALIGNMENT (CL)



LONGSECTION R101 CL (DESIGN)

SCALES:
Horizontal 1:1000
Vertical 1:200

DATUM 1200.000

DISTANCE (m)	GROUND LEVELS ON CL	FINAL DESIGN ROAD LEVELS	VERTICAL PROFILE GRADES	HORIZONTAL ALIGNMENT	SUPERELEVATION
17888.440	1200.000	1200.000	2.832%		-2.0%
18000.000	1200.000	1200.000			-2.0%
18100.000	1200.000	1200.000			-2.0%
18200.000	1200.000	1200.000			-2.0%
18300.000	1200.000	1200.000			-2.0%
18400.000	1200.000	1200.000			-2.0%
18500.000	1200.000	1200.000			-2.0%
18600.000	1200.000	1200.000			-2.0%
18700.000	1200.000	1200.000			-2.0%
18800.000	1200.000	1200.000			-2.0%
18900.000	1200.000	1200.000			-2.0%
19000.000	1200.000	1200.000			-2.0%
19100.000	1200.000	1200.000			-2.0%
19200.000	1200.000	1200.000			-2.0%
19300.000	1200.000	1200.000			-2.0%
19400.000	1200.000	1200.000			-2.0%

No.	DATE	REVISION	CONSULT. ENG.
G	26/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
F	08/03/2021	STRIPMAP UPDATED	D.v.d.M
E	25/02/2021	VERTICAL REVISED	D.v.d.M
D	03/12/2020	VERTICAL REVISED	D.v.d.M
C	13/09/2020	HORIZONTAL REVISED TO 100KM/H eMAX 8%	D.v.d.M
B	31/01/2020	HORIZONTAL REVISED	D.v.d.M
A	18/12/2019	ORIGINAL VERSION	D.v.d.M

CONSTRUCTION RECORD	
WORKS CONTRACT ENGINEER	Name: _____ Date: _____
SANRAL PROJECT MANAGER	Name: _____ Date: _____

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CSA
50 YEARS
CELEBRATION
EST 1967-8017
• ENGINEERING • PROCUREMENT • MANAGEMENT
Registration No. 1998/0015767

DESIGNED BY	
NAME	D.v.d.MERNE
Prof. Reg. No.	20120196
CHECKED BY	
NAME	D.v.d.MERNE
Prof. Reg. No.	20120196
DRAWN BY	
NAME	SS. CLAMINI

CONSULTANT APPROVAL	
Name	ANDRIE GREYLING
Prof. Reg. No.	20060025

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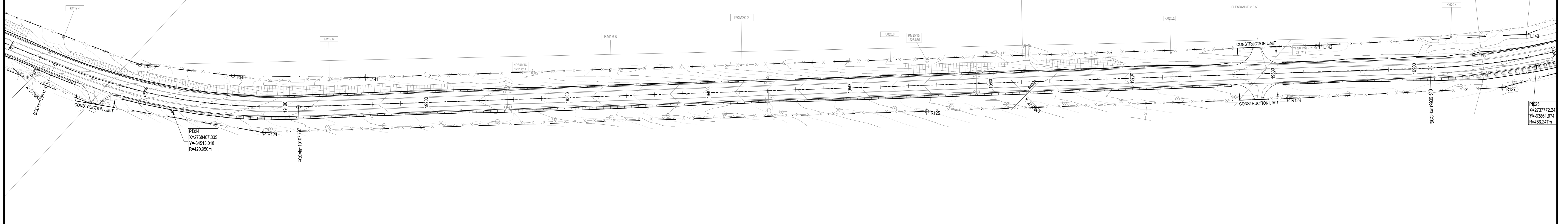
ACCEPTANCE
THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWEVER ARISING
for CEO: SA NATIONAL ROADS AGENCY SOC. LTD.
Date: _____

PROJECT DESCRIPTION	
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)	
DRAWING NAME	
PLAN & PROFILE	
SCALE: 1:1000	SHEET 19 OF 27

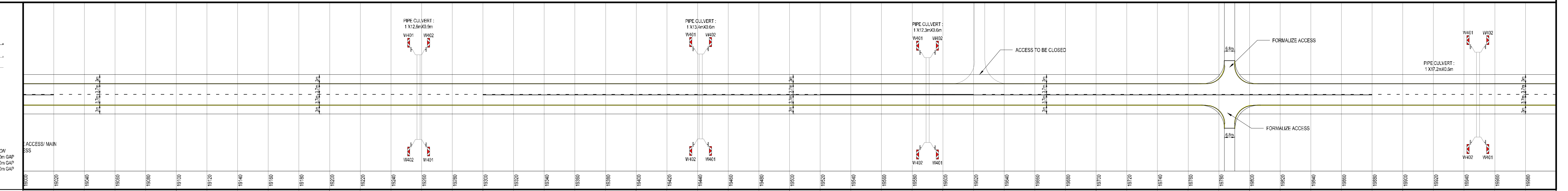
PROJECT NUMBER		R-101-080-2019/1	
DRAWING LOCATION DATA		START	END
ROUTE	SECTION	2	2
DRAWING km DISTANCE	PLAN & PROFILE	8	8
BRIDGE/STRUCTURE No.		N/A	
CONSULTANT DRAWING No.		PD 33532.00-110- 19	
SANRAL DOCUMENT #		VER G	

33532.00-110 (RURAL).DWG

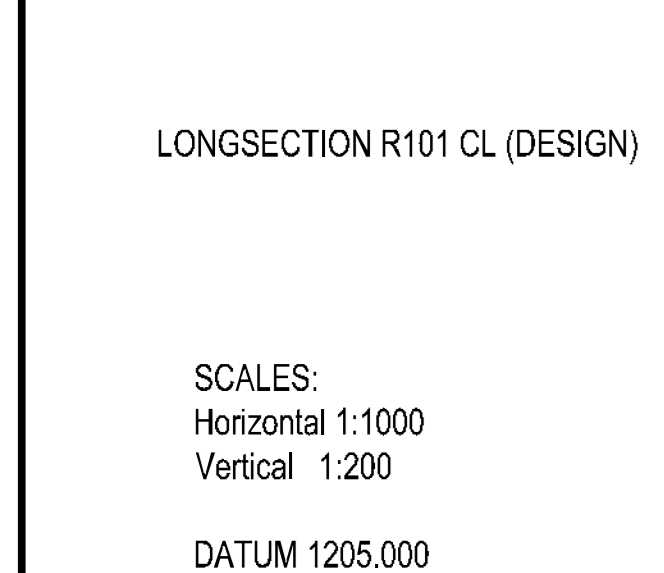
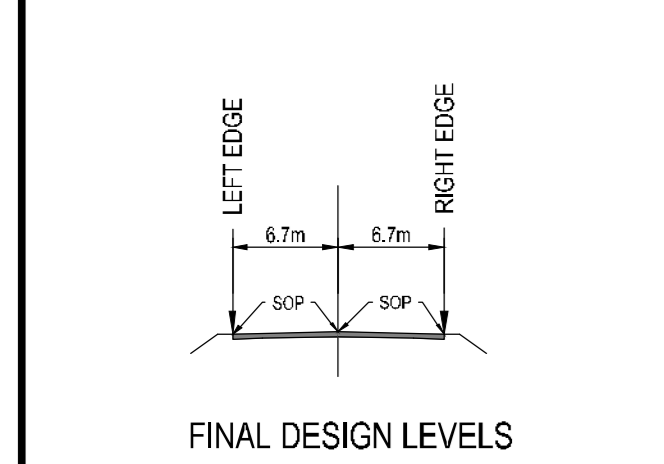
SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCE LINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREET LIGHT



CODE	THICKNESS / COLOUR	CONFIGURATION
WMS STANDARD	100mm WHITE	4.0m LINE & 6.0m GAP
WMS STANDARD	300mm WHITE	2.0m LINE & 4.0m GAP
OWI STANDARD	100mm WHITE	2.0m LINE & 4.0m GAP
PM1	100mm WHITE	SOLID LINE
PM1.1	150mm YELLOW	SOLID LINE
PM1.2	150mm WHITE	SOLID LINE



SYMBOL	DESCRIPTION
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALLOWANCE (CL)



DISTANCE (m)	GROUND LEVELS ON CL	FINAL DESIGN ROAD LEVELS	VERTICAL PROFILE GRADES	HORIZONTAL ALIGNMENT	SUPERELEVATION
19000	1215.000	1215.000	3.163%	R=420.950m	0.0%
19050	1216.000	1216.000	1.913%	ECC	-0.0%
19100	1217.000	1217.000	1.213%		-0.0%
19150	1218.000	1218.000	2.248%		-0.0%
19200	1219.000	1219.000	0.332%		-0.0%
19250	1220.000	1220.000			-0.0%
19300	1221.000	1221.000			-0.0%
19350	1222.000	1222.000			-0.0%
19400	1223.000	1223.000			-0.0%
19450	1224.000	1224.000			-0.0%
19500	1225.000	1225.000			-0.0%
19550	1226.000	1226.000			-0.0%
19600	1227.000	1227.000			-0.0%
19650	1228.000	1228.000			-0.0%
19700	1229.000	1229.000			-0.0%
19750	1230.000	1230.000			-0.0%
19800	1231.000	1231.000			-0.0%
19850	1232.000	1232.000			-0.0%
19900	1233.000	1233.000			-0.0%

No.	DATE	REVISION	CONSULT. ENG.
G	26/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
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A	18/12/2019	ORIGINAL VERSION	D.v.d.M

CONSTRUCTION RECORD	
WORKS CONTRACT ENGINEER	Name: _____
DATE	Date: _____
SANRAL PROJECT MANAGER	
Name: _____	Date: _____

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 Tel: +27 (21) 527 7000
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DESIGNED BY
 NAME: D.v.d.MERNE
 Prof. Reg. No.: 20120196

CHECKED BY
 NAME: D.v.d.MERNE
 Prof. Reg. No.: 20120196

DRAWN BY
 NAME: SS. CLAMINI

CONSULTANT APPROVAL
 NAME: ANDRIE GREYLING
 Prof. Reg. No.: 20060025

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 by CEO: SA NATIONAL ROADS AGENCY SOC. LTD
 Date: _____

PROJECT DESCRIPTION
 IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)

DRAWING NAME
 PLAN & PROFILE

PROJECT NUMBER
 R-101-080-2019/1

DRAWING LOCATION DATA	START	END
ROUTE	2	2
SECTION	8	8
DRAWING TYPE	PLAN & PROFILE	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	PD	33532.00-110-20
SANRAL DOCUMENT #	VER G	

SCALE: 1:1000 SHEET 20 OF 27

WESTERN CAPE
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DRAWING NAME
 PLAN & PROFILE

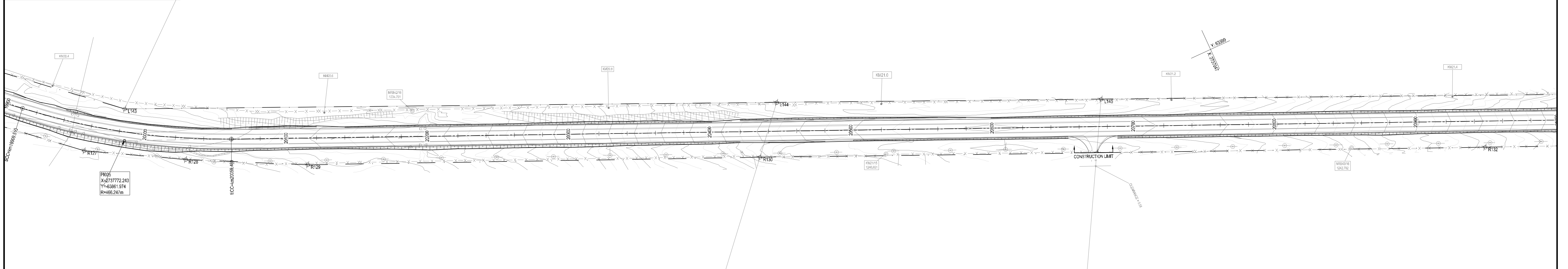
PROJECT NUMBER
 R-101-080-2019/1

DRAWING LOCATION DATA	START	END
ROUTE	2	2
SECTION	8	8
DRAWING TYPE	PLAN & PROFILE	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	PD	33532.00-110-20
SANRAL DOCUMENT #	VER G	

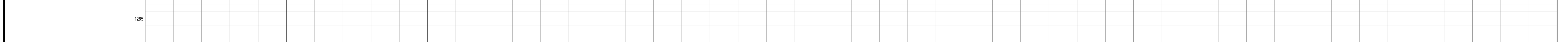
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33532.00-110 (RURAL).DWG

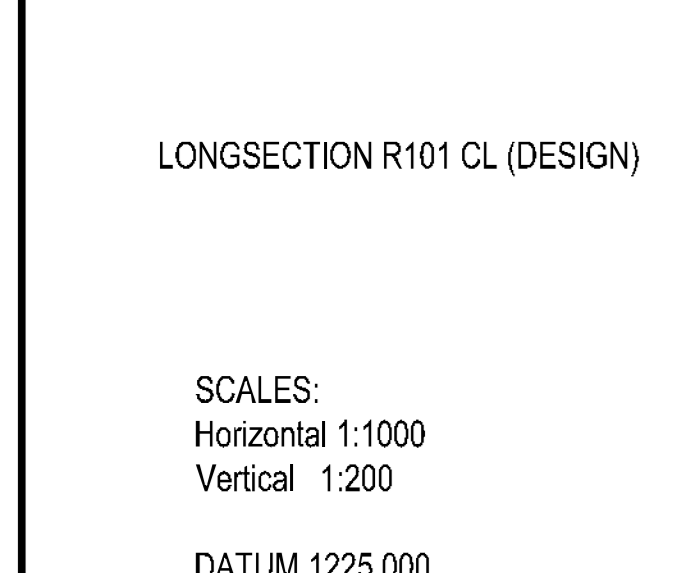
SYMBOL	DESCRIPTION
---	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
---	ROAD RESERVE
- - - -	EXISTING FENCE LINE
○	EXISTING TELEPHONE POLE & CABLE
○	EXISTING STREET LIGHT



LEGEND	DESCRIPTION	
---	PROPOSED CULVERT	
---	EXISTING CULVERT	
---	PROPOSED GUARDRAIL	
---	EXISTING GUARDRAIL	
---	EXISTING FENCE LINE	
---	EXISTING TELEPHONE LINES	
---	EXISTING STREET LIGHTS	
---	ROAD MARKS	
W401 (80x150)	W402 (80x150)	
---	ROAD MARKS (REF. SARTSI)	
CODE	THICKNESS / COLOUR	CONFIGURATION
WMS STANDARD	100mm / WHITE	4.0m LINE & 6.0m GAP
WMS STANDARD	300mm / WHITE	2.0m LINE & 4.0m GAP
CM STANDARD	100mm / WHITE	2.0m LINE & 4.0m GAP
PMH	100mm / WHITE	SOLID LINE
PM1.1	150mm / YELLOW	SOLID LINE
PM1.2	150mm / WHITE	SOLID LINE

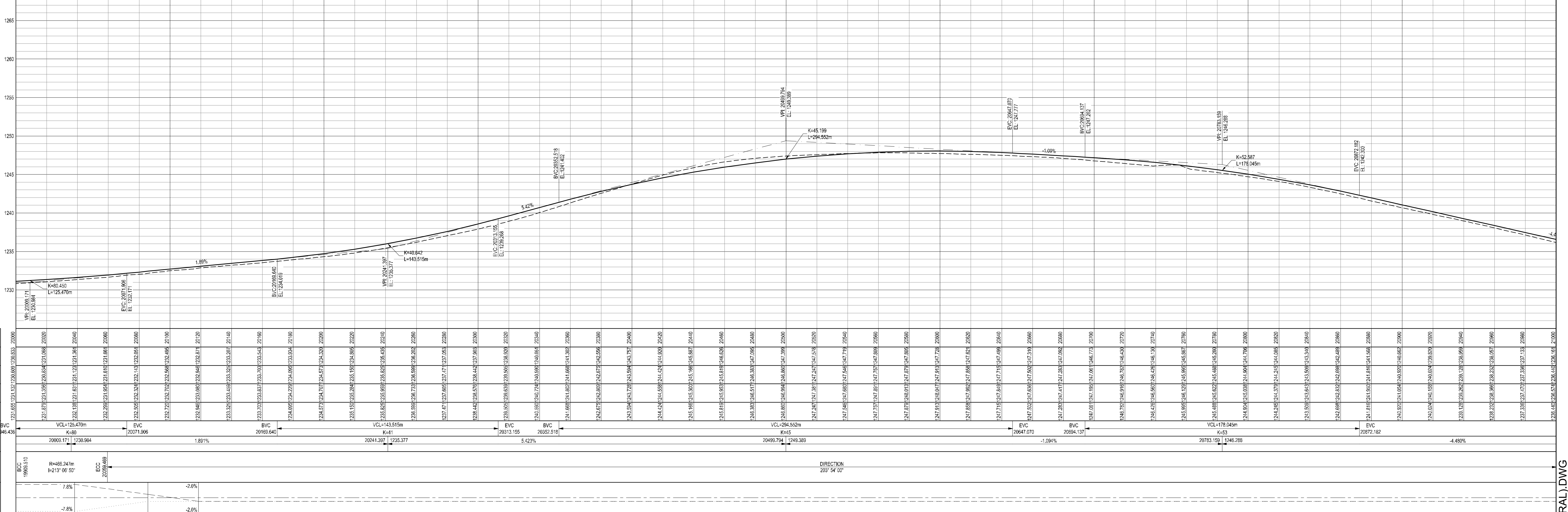


PROFILE LEGEND	DESCRIPTION
---	NEL
---	PROPOSED ROAD TOP SURFACE
---	PROPOSED ROAD ALLOWANCE (CL)
---	VERTICAL ALIGNMENT - 80km/h DESIGN SPEED



LONGSECTION R101 CL (DESIGN)	
DISTANCE (m)	GROUND LEVELS ON CL
20000	1250.000
20010	1250.100
20020	1250.200
20030	1250.300
20040	1250.400
20050	1250.500
20060	1250.600
20070	1250.700
20080	1250.800
20090	1250.900
20100	1251.000
20110	1251.100
20120	1251.200
20130	1251.300
20140	1251.400
20150	1251.500
20160	1251.600
20170	1251.700
20180	1251.800
20190	1251.900
20200	1252.000
20210	1252.100
20220	1252.200
20230	1252.300
20240	1252.400
20250	1252.500
20260	1252.600
20270	1252.700
20280	1252.800
20290	1252.900
20300	1253.000
20310	1253.100
20320	1253.200
20330	1253.300
20340	1253.400
20350	1253.500
20360	1253.600
20370	1253.700
20380	1253.800
20390	1253.900
20400	1254.000
20410	1254.100
20420	1254.200
20430	1254.300
20440	1254.400
20450	1254.500
20460	1254.600
20470	1254.700
20480	1254.800
20490	1254.900
20500	1255.000
20510	1255.100
20520	1255.200
20530	1255.300
20540	1255.400
20550	1255.500
20560	1255.600
20570	1255.700
20580	1255.800
20590	1255.900
20600	1256.000
20610	1256.100
20620	1256.200
20630	1256.300
20640	1256.400
20650	1256.500
20660	1256.600
20670	1256.700
20680	1256.800
20690	1256.900
20700	1257.000
20710	1257.100
20720	1257.200
20730	1257.300
20740	1257.400
20750	1257.500
20760	1257.600
20770	1257.700
20780	1257.800
20790	1257.900
20800	1258.000
20810	1258.100
20820	1258.200
20830	1258.300
20840	1258.400
20850	1258.500
20860	1258.600
20870	1258.700
20880	1258.800
20890	1258.900
20900	1259.000
20910	1259.100
20920	1259.200
20930	1259.300
20940	1259.400
20950	1259.500
20960	1259.600
20970	1259.700
20980	1259.800
20990	1259.900
21000	1260.000

VERTICAL PROFILE GRADES	
HORIZONTAL ALIGNMENT	SUPERELEVATION
BVC 19946.45h	LEFT
20009.111 1230.884	RIGHT
20071.906	-2.0%
1.891%	-7.8%
20169.646	-2.0%
20244.367 1235.377	-2.0%
8.423%	-2.0%
20310.156	-2.0%
20350.518	-2.0%
20499.794 1248.389	-2.0%
1.094%	-2.0%
20647.070	-2.0%
20694.191	-2.0%
-1.094%	-2.0%
20783.150 1246.288	-2.0%
20872.182	-2.0%
-4.692%	-2.0%



CONSTRUCTION RECORD	
WORKS CONTRACT ENGINEER	SANRAL PROJECT MANAGER
Name: _____	Name: _____
Date: _____	Date: _____

No.	DATE	REVISION	CONSULT. ENG.
G	26/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
F	08/03/2021	STRIPMAP UPDATED	D.v.d.M
E	25/02/2021	VERTICAL REVISED	D.v.d.M
D	03/12/2020	HORIZONTAL REVISED	D.v.d.M
C	13/09/2020	HORIZONTAL REVISED TO 100KM/H @MAX 8%	D.v.d.M
B	31/01/2020	HORIZONTAL REVISED	D.v.d.M
A	18/12/2019	ORIGINAL VERSION	D.v.d.M

WESTERN CAPE
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Fax: +27 (21) 527 7001

CONSULTANT APPROVAL
Name: ANDRIE GREYLING
Prof. Reg. No. 20060025

DESIGNED BY
Name: D.v.d.MERNE
Prof. Reg. No. 20120196

CHECKED BY
Name: D.v.d.MERNE
Prof. Reg. No. 20120196

DRAWN BY
Name: SS. CLAMINI

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Lynnwood Ridge
0940
Tel: (012) 426 6200

SANRAL
BUILDING SOUTH AFRICA
THROUGH BETTER ROADS

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

PROJECT DESCRIPTION
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)

DRAWING NAME
PLAN & PROFILE

SCALE: 1:1000

PROJECT NUMBER		R-101-080-2019/1	
DRAWING LOCATION DATA	START	END	
ROUTE	2	2	
SECTION	8	8	
DRAWING TYPE	PLAN & PROFILE		
BRIDGE/STRUCTURE No.	N/A		
CONSULTANT DRAWING No.	PD	33532.00-110-21	VER
SANRAL DOCUMENT #			G

SHEET 21 OF 27

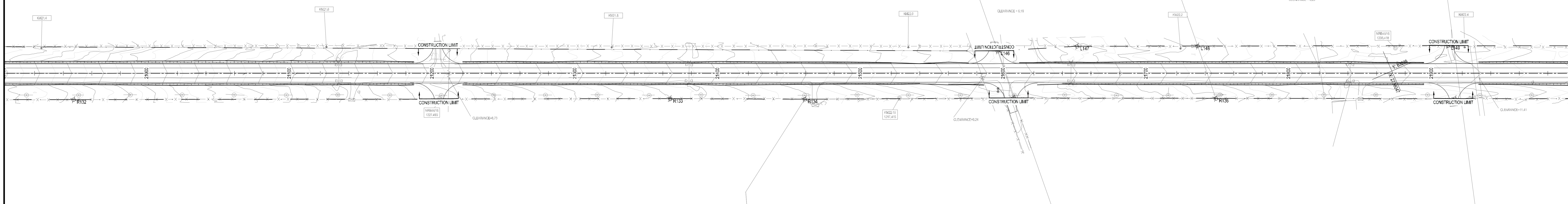
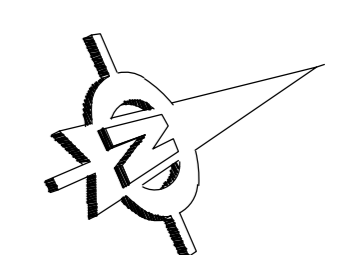
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SHEET 21 OF 27

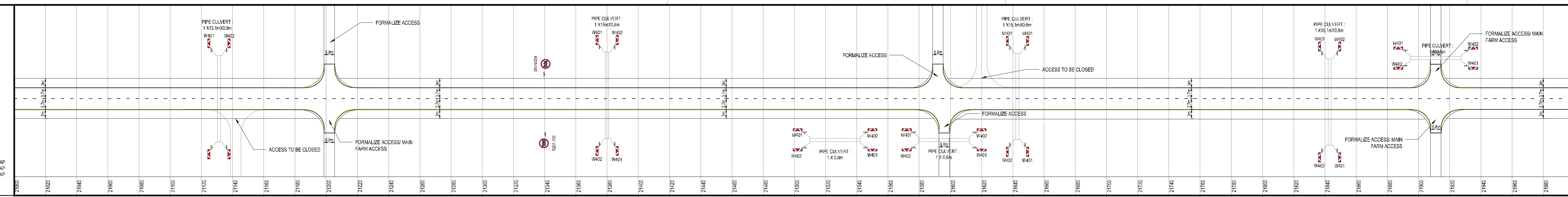
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33532.00-110 (RURAL).DWG

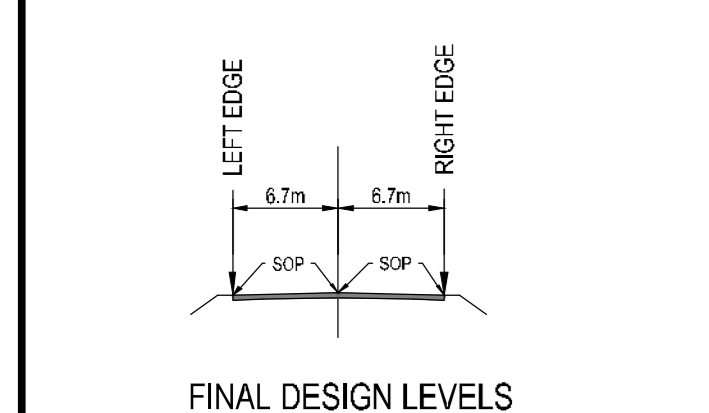
SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCE LINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREET LIGHT



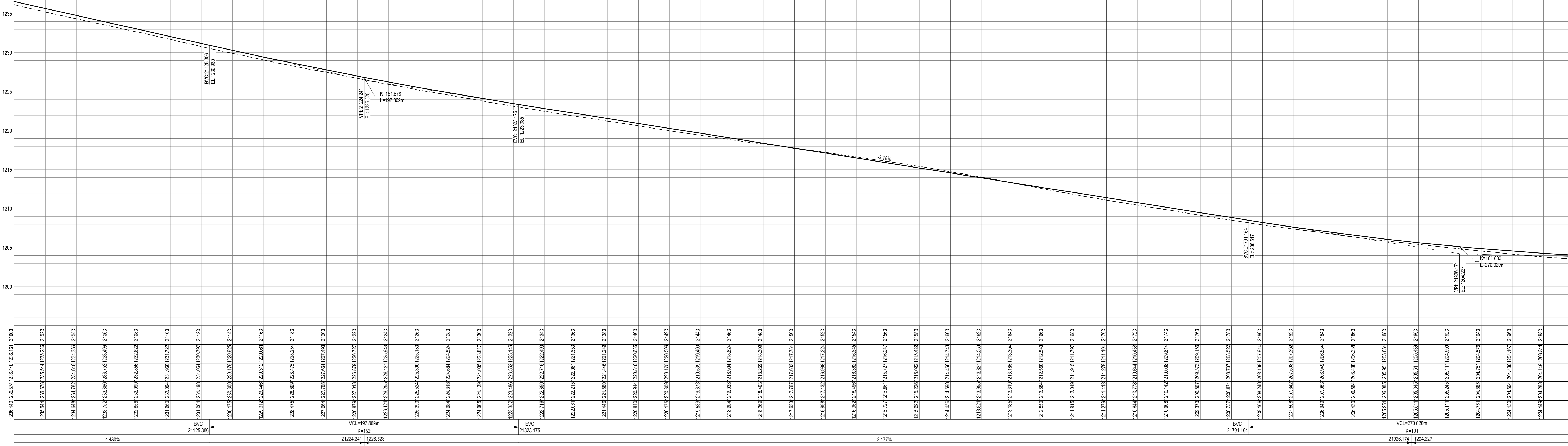
CODE	THICKNESS / COLOUR	CONFIGURATION
WMS STANDARD	100mm WHITE	4.0m LINE & 6.0m GAP
WMS STANDARD	300mm WHITE	2.0m LINE & 4.0m GAP
OW STANDARD	100mm WHITE	2.0m LINE & 4.0m GAP
PM1	100mm WHITE	SOLID LINE
PM1.5	150mm YELLOW	SOLID LINE
PM2	150mm WHITE	SOLID LINE



SYMBOL	DESCRIPTION
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALIGNMENT (CL)
	VERTICAL ALIGNMENT - 80km/h DESIGN SPEED



LONGSECTION R101 CL (DESIGN)



SCALES:
Horizontal 1:1000
Vertical 1:200

DATUM 1195.000

DISTANCE (m)	GROUND LEVELS ON CL	FINAL DESIGN ROAD LEVELS	VERTICAL PROFILE GRADES	HORIZONTAL ALIGNMENT	SUPERELEVATION
205.40	1205.40	1205.40	-4.60%		
205.40	1205.40	1205.40	21155.30%		
21204.24	1206.52	1206.52	21204.24	1206.52%	
21303.175	1207.15	1207.15	21303.175		
21997.14	1208.27	1208.27	-3.17%		
21997.14	1208.27	1208.27	21997.14		
2204.227	1208.27	1208.27	2204.227		

No.	DATE	REVISION	CONSULT. ENG.
G	26/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
F	08/03/2021	STRIPMAP UPDATED	D.v.d.M
E	25/02/2021	VERTICAL REVISED	D.v.d.M
D	03/12/2020	VERTICAL REVISED	D.v.d.M
C	13/09/2020	HORIZONTAL REVISED TO 100KM/H MAX 8%	D.v.d.M
B	31/01/2020	HORIZONTAL REVISED	D.v.d.M
A	18/12/2019	ORIGINAL VERSION	D.v.d.M

CONSTRUCTION RECORD	
WORKS CONTRACT ENGINEER	
Name:	
Date:	
SANRAL PROJECT MANAGER	
Name:	
Date:	

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CSA
50 YEARS CELEBRATION
EST 1967-8017
• ENGINEERING • PROCUREMENT • MANAGEMENT
Registration No. 1998/001/5767

DESIGNED BY		CONSULTANT APPROVAL	
NAME	D.v.d.MERNE	NAME	ANDRIE GREYLING
Prof. Reg. No.	20120196	Prof. Reg. No.	20060025
CHECKED BY		NAME	D.v.d.MERNE
NAME	D.v.d.MERNE	Prof. Reg. No.	20120196
DRAWN BY		NAME	SS. CLAMINI
NAME	SS. CLAMINI		

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NORTHERN REGION
30 Ida Street
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Lynnwood Ridge
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Tel: (012) 426 6200

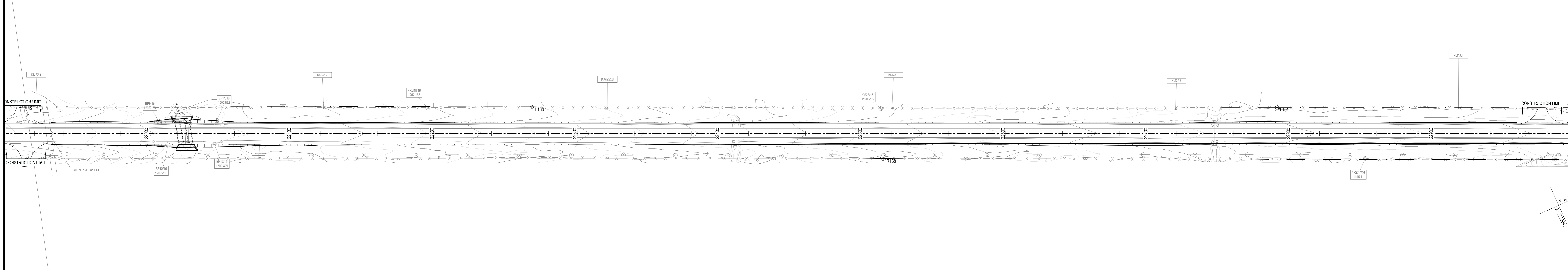
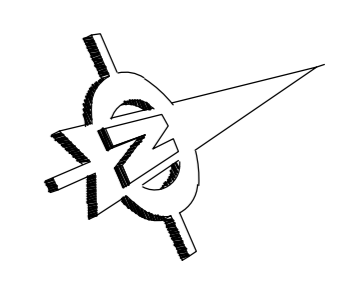
PROJECT DESCRIPTION	
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)	
DRAWING NAME	
PLAN & PROFILE	
SCALE: 1:1000	SHEET 22 OF 27

PROJECT NUMBER	
R-101-080-2019/1	
DRAWING LOCATION DATA	
ROUTE	START END
SECTION	2 2
DRAWING km DISTANCE	8 8
DRAWING TYPE	
PLAN & PROFILE	
BRIDGE/STRUCTURE No.	
N/A	
CONSULTANT DRAWING No.	
PD 33532.00-110-22	
SANRAL DOCUMENT #	
VER G	

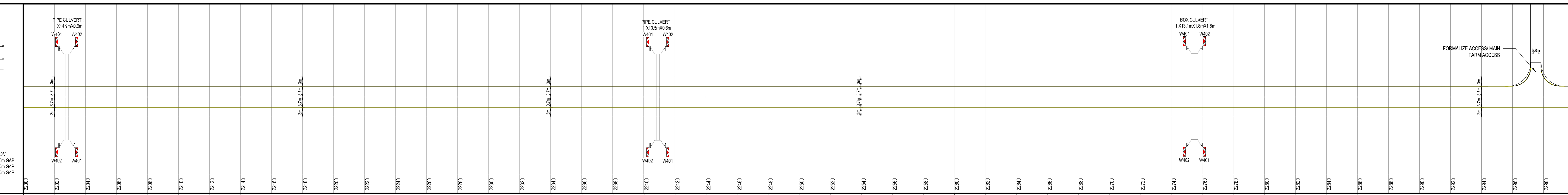
CONSTRUCTION RECORD	
Name:	
Date:	

33532.00-110 (RURAL).DWG

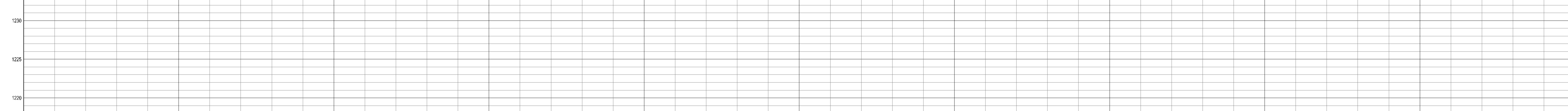
SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCE LINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREET LIGHT



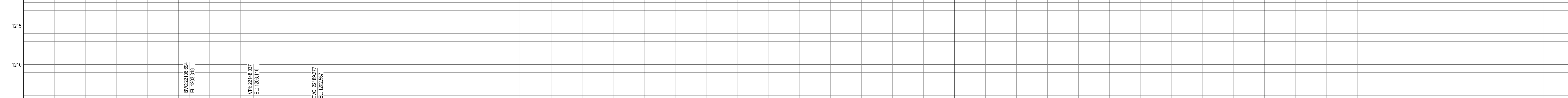
CODE	THICKNESS / COLOUR	CONFIGURATION
WMS STANDARD	100mm WHITE	4.0m LINE & 6.0m GAP
WMS STANDARD	300mm WHITE	2.0m LINE & 4.0m GAP
WMS STANDARD	100mm WHITE	4.0m LINE & 4.0m GAP
PM1	100mm WHITE	SOLID LINE
PM1.5	150mm YELLOW	SOLID LINE
PM2	150mm WHITE	SOLID LINE



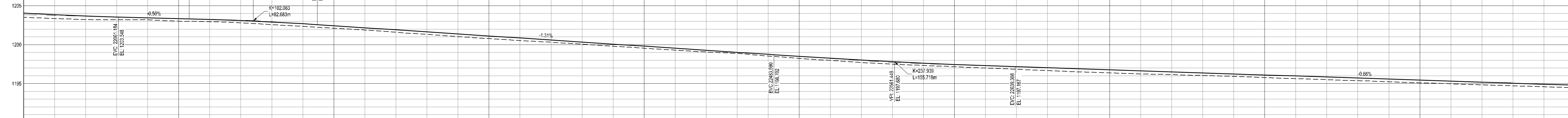
SYMBOL	DESCRIPTION
	PROPOSED CULVERT
	EXISTING CULVERT
	PROPOSED GUARDRAIL
	EXISTING GUARDRAIL
	EXISTING FENCE LINE
	EXISTING TELEPHONE LINES
	EXISTING STREET LIGHTS
	ROAD SIGNS W401 (60x150)
	ROAD SIGNS W402 (60x150)



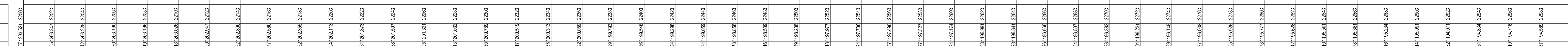
SYMBOL	DESCRIPTION
	PROFILE LEGEND
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALIGNMENT (CL)



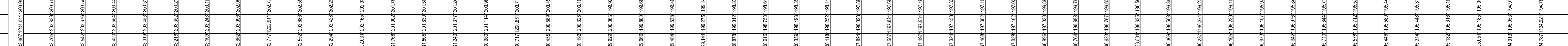
SYMBOL	DESCRIPTION
	FINAL DESIGN LEVELS
	LEFT EDGE
	RIGHT EDGE



LONGSECTION R101 CL (DESIGN)



SCALES:
Horizontal 1:1000
Vertical 1:200



DATUM 1190.000

DISTANCE (m)	GROUND LEVELS ON CL	FINAL DESIGN ROAD LEVELS	VERTICAL PROFILE GRADES	HORIZONTAL ALIGNMENT	SUPERELEVATION
21900.000	2190.000	2190.000	2190.000	2190.000	2190.000
21950.000	2195.000	2195.000	2195.000	2195.000	2195.000
22000.000	2200.000	2200.000	2200.000	2200.000	2200.000
22050.000	2205.000	2205.000	2205.000	2205.000	2205.000
22100.000	2210.000	2210.000	2210.000	2210.000	2210.000
22150.000	2215.000	2215.000	2215.000	2215.000	2215.000
22200.000	2220.000	2220.000	2220.000	2220.000	2220.000
22250.000	2225.000	2225.000	2225.000	2225.000	2225.000
22300.000	2230.000	2230.000	2230.000	2230.000	2230.000
22350.000	2235.000	2235.000	2235.000	2235.000	2235.000
22400.000	2240.000	2240.000	2240.000	2240.000	2240.000
22450.000	2245.000	2245.000	2245.000	2245.000	2245.000
22500.000	2250.000	2250.000	2250.000	2250.000	2250.000
22550.000	2255.000	2255.000	2255.000	2255.000	2255.000
22600.000	2260.000	2260.000	2260.000	2260.000	2260.000
22650.000	2265.000	2265.000	2265.000	2265.000	2265.000
22700.000	2270.000	2270.000	2270.000	2270.000	2270.000
22750.000	2275.000	2275.000	2275.000	2275.000	2275.000
22800.000	2280.000	2280.000	2280.000	2280.000	2280.000
22850.000	2285.000	2285.000	2285.000	2285.000	2285.000
22900.000	2290.000	2290.000	2290.000	2290.000	2290.000

No.	DATE	REVISION	CONSULT. ENG.
G	26/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
F	08/03/2021	STRIPMAP UPDATED	D.v.d.M
E	25/02/2021	VERTICAL REVISED	D.v.d.M
D	03/12/2020	VERTICAL REVISED	D.v.d.M
C	13/09/2020	HORIZONTAL REVISED TO 100KM/H @ MAX 8%	D.v.d.M
B	31/01/2020	HORIZONTAL REVISED	D.v.d.M
A	18/12/2019	ORIGINAL VERSION	D.v.d.M

CONSTRUCTION RECORD	
WORKS CONTRACT ENGINEER	SANRAL PROJECT MANAGER
Name: _____ Date: _____	Name: _____ Date: _____



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Tel: +27 (21) 527 7000
Fax: +27 (21) 527 7001

DESIGNED BY		CHECKED BY	
Name: D.v.d.MERNE	Prof. Reg. No. 20120196	Name: D.v.d.MERNE	Prof. Reg. No. 20120196
DRAWN BY: SS. CLAMINI			

CONSULTANT APPROVAL	
Name: ANDRIE GREYLING	Prof. Reg. No. 20060025

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46 Tambotse Avenue
Val de Grace
Pretoria
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PO Box 415
Pretoria 0001
South Africa
Tel: (012) 844 8000



NORTHERN REGION
30 Ida Street
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Lynnwood Ridge
0040
Tel: (012) 426 6200

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 CEO: SA NATIONAL ROADS AGENCY SOC. LTD.
Date: _____

PROJECT DESCRIPTION	
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)	
DRAWING NAME PLAN & PROFILE	

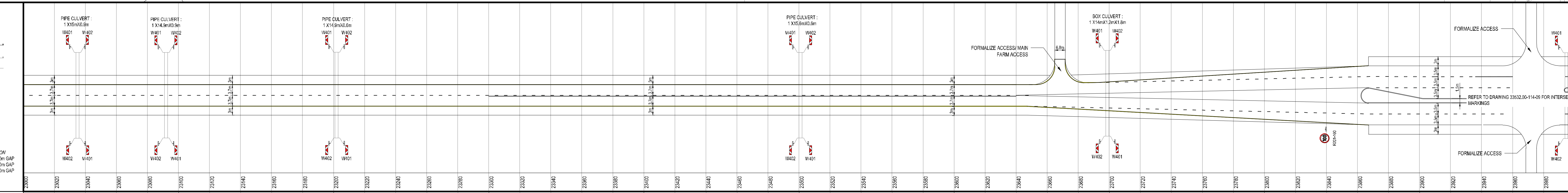
PROJECT NUMBER		R-101-080-2019/1	
DRAWING LOCATION DATA	START	END	
ROUTE	2	2	
SECTION	8	8	
DRAWING TYPE	PLAN & PROFILE		
BRIDGE/STRUCTURE No.	N/A		
CONSULTANT DRAWING No.	PD	33532.00-110-23	
SANRAL DOCUMENT #			

33532.00-110 (RURAL).DWG

SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCE LINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREET LIGHT



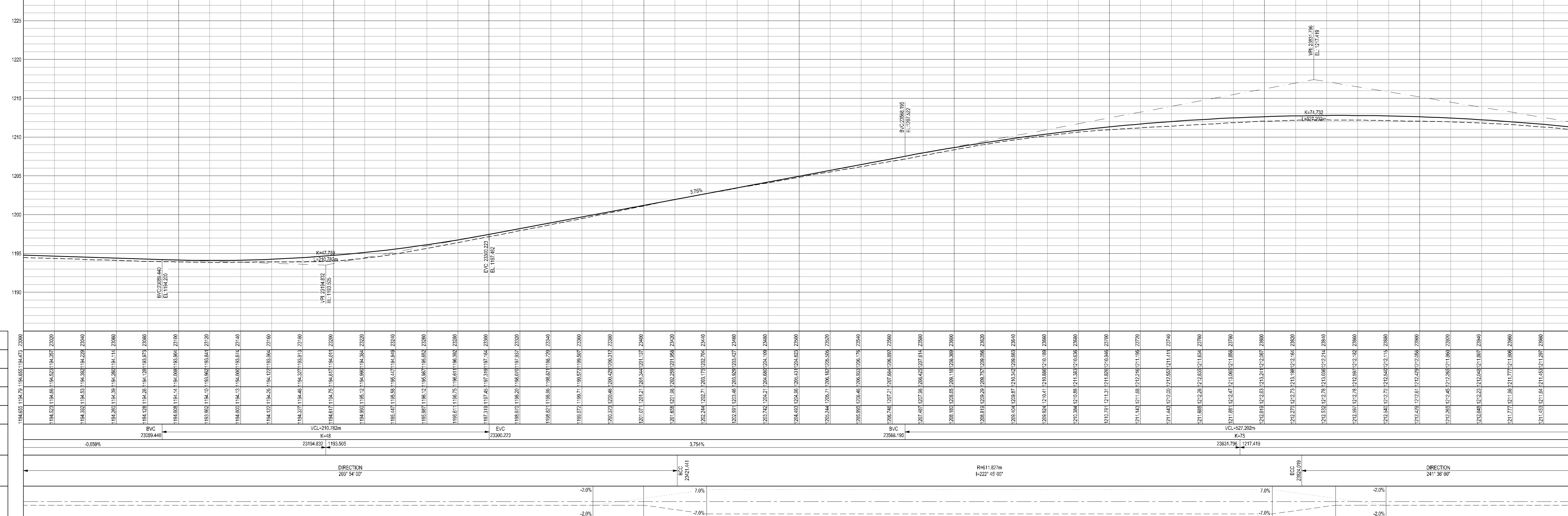
SYMBOL	DESCRIPTION
	PROPOSED CULVERT
	EXISTING CULVERT
	PROPOSED GUARDRAIL
	EXISTING GUARDRAIL
	EXISTING FENCE LINE
	EXISTING TELEPHONE LINES
	EXISTING STREET LIGHTS
	ROAD SIGNS
	W401 (80x150)
	W402 (80x150)



CODE	THICKNESS / COLOUR	CONFIGURATION
WMS STANDARD	100mm WHITE	4.0m LINE & 6.0m GAP
WMS STANDARD	300mm WHITE	2.0m LINE & 4.0m GAP
OW STANDARD	100mm WHITE	4.0m LINE & 6.0m GAP
PM1	100mm WHITE	SOLID LINE
PM1.5	150mm YELLOW	SOLID LINE
PM2	150mm WHITE	SOLID LINE

SYMBOL	DESCRIPTION
	NGL
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALIGNMENT (CL)

FINAL DESIGN ROAD LEVELS	VERTICAL PROFILE GRADES	HORIZONTAL ALIGNMENT	SUPERELEVATION
LEFT EDGE (HL)	-0.65%	DIRECTION 207 34 07'	LEFT
CENTRELINE	3.75%	DIRECTION 247 30 07'	RIGHT
RIGHT EDGE (HR)			



No.	DATE	REVISION	CONSULT. ENG.
G	30/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
F	23/03/2021	STRIPMAP UPDATED	D.v.d.M
E	25/02/2021	VERTICAL REVISED	D.v.d.M
D	03/12/2020	VERTICAL REVISED	D.v.d.M
C	13/09/2020	HORIZONTAL REVISED TO 100KM/H @MAX 8%	D.v.d.M
B	31/01/2020	HORIZONTAL REVISED	D.v.d.M
A	18/12/2019	ORIGINAL VERSION	D.v.d.M

CONSTRUCTION RECORD	DESIGNED BY	CONSULTANT APPROVAL
WORKS CONTRACT ENGINEER	NAME: D.v.d.MERNE Prof. Reg. No. 20120196	NAME: ANDRIE GREYLING Prof. Reg. No. 20060025
SANRAL PROJECT MANAGER	CHECKED BY: D.v.d.MERNE Prof. Reg. No. 20120196	DRAWN BY: SS. CLAMINI

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NORTHERN REGION
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ACCEPTANCE
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Date: _____
for CEO: SA NATIONAL ROADS AGENCY SOC. LTD.

PROJECT DESCRIPTION
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)

DRAWING NAME
PLAN & PROFILE

PROJECT NUMBER
R-101-080-2019/1

DRAWING LOCATION DATA

ROUTE	START	END
2	2	2
SECTION	8	8
DRAWING TYPE	PLAN & PROFILE	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	PD	33532.00-110-24
SANRAL DOCUMENT #		

SCALE: 1:1000

SHEET 24 OF 27

NAME	DATE
D.v.d.MERNE	20120196
D.v.d.MERNE	20120196
SS. CLAMINI	

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Block B2, Edison Square
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Date: _____
for CEO: SA NATIONAL ROADS AGENCY SOC. LTD.

PROJECT DESCRIPTION
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)

DRAWING NAME
PLAN & PROFILE

PROJECT NUMBER
R-101-080-2019/1

DRAWING LOCATION DATA

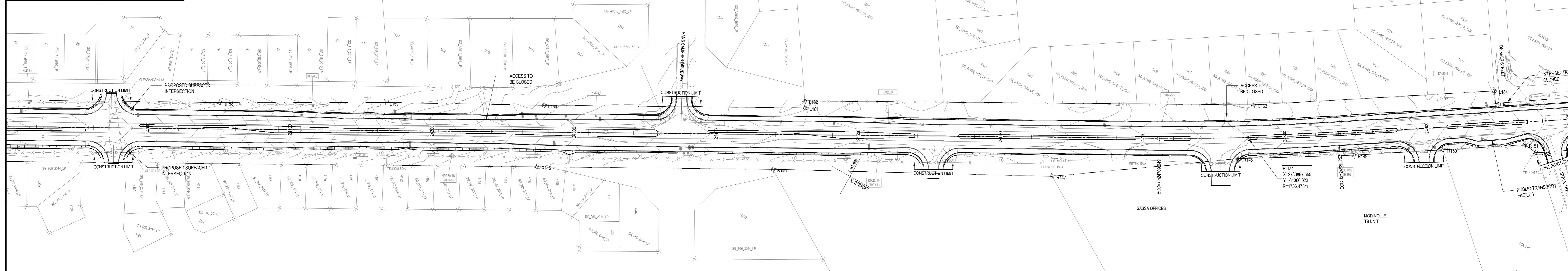
ROUTE	START	END
2	2	2
SECTION	8	8
DRAWING TYPE	PLAN & PROFILE	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	PD	33532.00-110-24
SANRAL DOCUMENT #		

SCALE: 1:1000

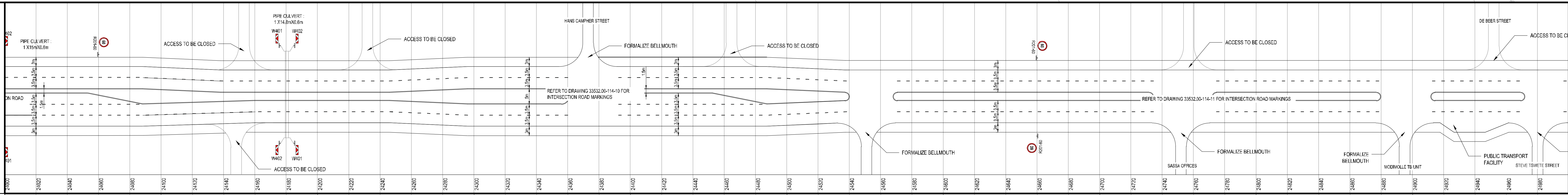
SHEET 24 OF 27

33532.00-110 (MODIMOLLE).DWG

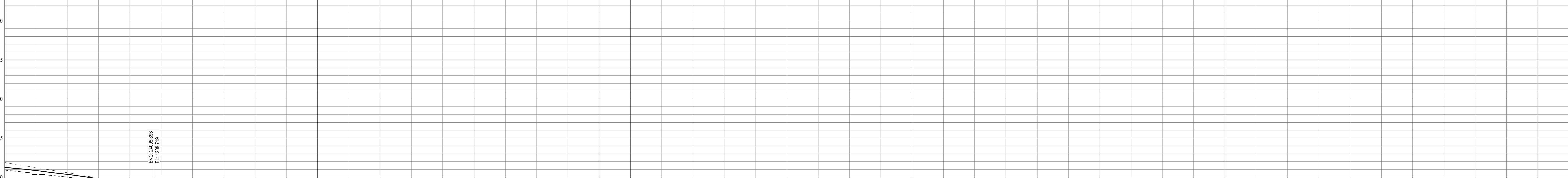
SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCE LINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREET LIGHT



SYMBOL	DESCRIPTION
	PROPOSED CULVERT
	EXISTING CULVERT
	PROPOSED GUARDRAIL
	EXISTING GUARDRAIL
	EXISTING FENCE LINE
	EXISTING TELEPHONE LINES
	EXISTING STREET LIGHTS
	ROAD SIGNS
	W401 (80km/h)
	W402 (80km/h)
	ROAD MARKINGS (REF. SARTS)
	CODE
	WMS STANDARD
	WMS STANDARD
	CWI STANDARD
	PM1
	PM1.5
	PM2
	THICKNESS / COLOUR
	CONFIGURATION



SYMBOL	DESCRIPTION
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALIGNMENT (CL)
	VERTICAL ALIGNMENT - 80km/h DESIGN SPEED
	LEFT EDGE
	CENTERLINE
	RIGHT EDGE



SCALE	DESCRIPTION
Horizontal 1:1000	
Vertical 1:200	



DISTANCE (m)	GROUND LEVELS ON CL	FINAL DESIGN ROAD LEVELS	VERTICAL PROFILE GRADES	HORIZONTAL ALIGNMENT	SUPERELEVATION
0+000	2015.641	2015.641	VCL -527.202m		
0+100	2015.641	2015.641	EVC 2495.398		
0+200	2015.641	2015.641	BVC 2495.398		
0+300	2015.641	2015.641	VCL -408.218m		
0+400	2015.641	2015.641	EVC 2495.398		
0+500	2015.641	2015.641	BVC 2495.398		
0+600	2015.641	2015.641	VCL -573.877m		
0+700	2015.641	2015.641	EVC 2495.398		
0+800	2015.641	2015.641	BVC 2495.398		
0+900	2015.641	2015.641	VCL -414.414		
1+000	2015.641	2015.641	EVC 2495.398		
1+100	2015.641	2015.641	BVC 2495.398		
1+200	2015.641	2015.641	VCL -475.877m		
1+300	2015.641	2015.641	EVC 2495.398		
1+400	2015.641	2015.641	BVC 2495.398		
1+500	2015.641	2015.641	VCL -414.414		
1+600	2015.641	2015.641	EVC 2495.398		
1+700	2015.641	2015.641	BVC 2495.398		
1+800	2015.641	2015.641	VCL -475.877m		
1+900	2015.641	2015.641	EVC 2495.398		
2+000	2015.641	2015.641	BVC 2495.398		

No.	DATE	REVISION	CONSULT. ENG.
G	30/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
F	23/03/2021	STRIPMAP UPDATED	D.v.d.M
E	25/02/2021	VERTICAL REVISED	D.v.d.M
D	03/12/2020	VERTICAL REVISED	D.v.d.M
C	13/09/2020	HORIZONTAL REVISED TO 100KM/H MAX 8%	D.v.d.M
B	31/01/2020	HORIZONTAL REVISED	D.v.d.M
A	18/12/2019	ORIGINAL VERSION	D.v.d.M

CONSTRUCTION RECORD	WORKS CONTRACT ENGINEER	SANRAL PROJECT MANAGER
Name: _____	Name: _____	Name: _____
Date: _____	Date: _____	Date: _____

WESTERN CAPE
 Cape Town
 Block B2, Edison Square
 c/o Edison Way & Century Avenue
 Century City, 7441
 P O Box 86
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 E-mail: cpi@trivinc.co.za
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 Tel: +27 (21) 527 7000
 Fax: +27 (21) 527 7001

DESIGNED BY	CHECKED BY	DRAWN BY
Name: D.v.d.MERNE Prof. Reg. No.: 20120196	Name: D.v.d.MERNE Prof. Reg. No.: 20120196	Name: SS. CLAMINI

CONSULTANT APPROVAL
Name: ANDRIE GREYLING Prof. Reg. No.: 20060025

HEAD OFFICE
 46 Tambora Avenue
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 0184
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 South Africa
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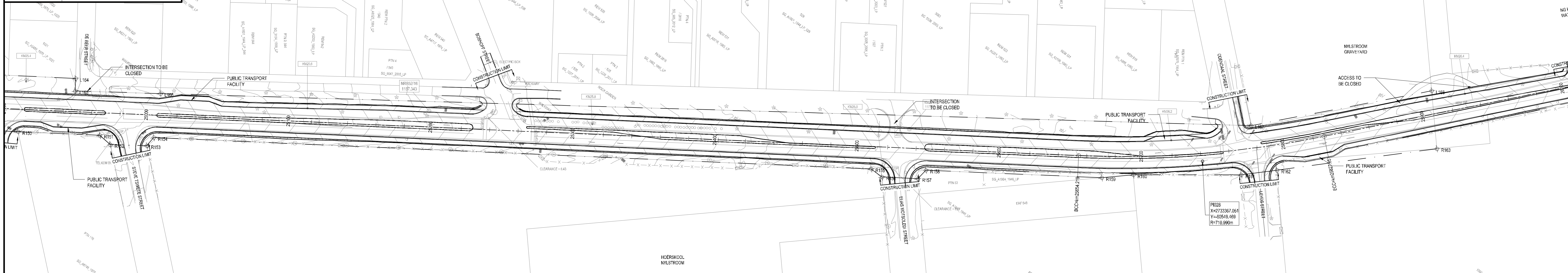
NORTHERN REGION
 30 Ida Street
 Menlo Park
 Pretoria
 6025
 Private Bag X17
 Lynnwood Ridge
 0040
 Tel: (012) 426 6200

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
 Date: _____
 For CEO: SA NATIONAL ROADS AGENCY SOC. LTD.

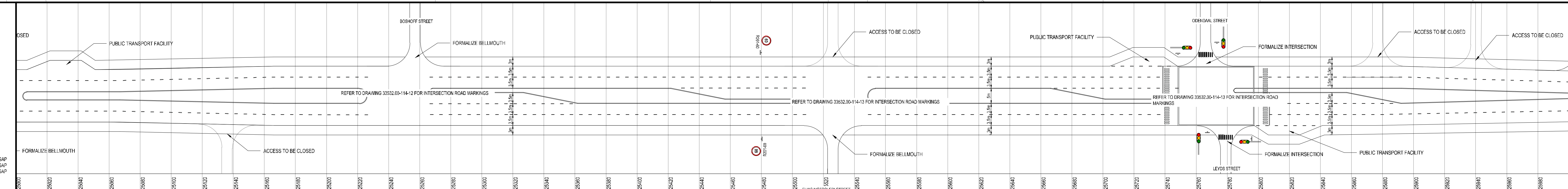
PROJECT DESCRIPTION	DRAWING NAME
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)	PLAN & PROFILE

PROJECT NUMBER	R-101-080-2019/1
DRAWING LOCATION DATA	START 2 END 2
ROUTE	SECTION 8
DRAWING TYPE	PLAN & PROFILE
BRIDGE/STRUCTURE No.	N/A
CONSULTANT DRAWING No.	PD 33532.00-110-25
SANRAL DOCUMENT #	VER G

SYMBOL	DESCRIPTION
---	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
---	ROAD RESERVE
---	EXISTING FENCELINE
---	EXISTING TELEPHONE POLE & CABLE
---	EXISTING STREET LIGHT

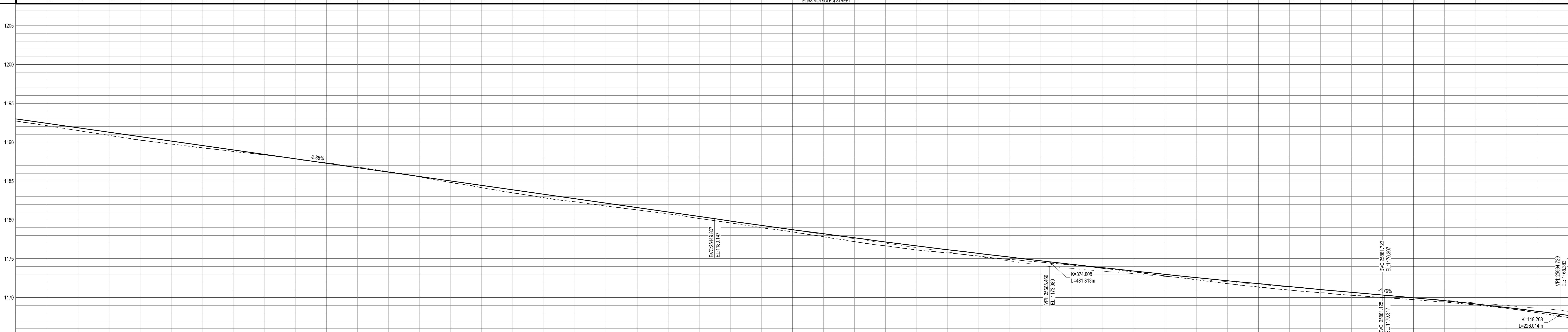


SYMBOL	DESCRIPTION
---	PROPOSED CULVERT
---	EXISTING CULVERT
---	PROPOSED GUARDRAIL
---	EXISTING GUARDRAIL
---	EXISTING FENCE LINE
---	EXISTING TELEPHONE LINES
---	EXISTING STREET LIGHTS
---	ROAD MARKS
---	ROAD MARKINGS (REF. SARTS)



CODE	THICKNESS / COLOUR	CONFIGURATION
WMS STANDARD	100mm WHITE	4.0m LINE & 6.0m GAP
WMS STANDARD	300mm WHITE	2.0m LINE & 4.0m GAP
CVS STANDARD	100mm WHITE	2.0m LINE & 4.0m GAP
RM1	100mm WHITE	SOLID LINE
RM1.5	150mm YELLOW	SOLID LINE
RM2	150mm WHITE	SOLID LINE

SYMBOL	DESCRIPTION
---	PROPOSED ROAD TOP SURFACE
---	PROPOSED ROAD ALIGNMENT (CL)



DISTANCE (m)	GROUND LEVELS ON CL	FINAL DESIGN ROAD LEVELS	VERTICAL PROFILE GRADES	HORIZONTAL ALIGNMENT	SUPERELEVATION
1952.85	1952.99	1952.85	-2.86%		
1952.99	1952.99	1952.85			
1953.13	1953.13	1952.85			
1953.27	1953.27	1952.85			
1953.41	1953.41	1952.85			
1953.55	1953.55	1952.85			
1953.69	1953.69	1952.85			
1953.83	1953.83	1952.85			
1953.97	1953.97	1952.85			
1954.11	1954.11	1952.85			
1954.25	1954.25	1952.85			
1954.39	1954.39	1952.85			
1954.53	1954.53	1952.85			
1954.67	1954.67	1952.85			
1954.81	1954.81	1952.85			
1954.95	1954.95	1952.85			
1955.09	1955.09	1952.85			
1955.23	1955.23	1952.85			
1955.37	1955.37	1952.85			
1955.51	1955.51	1952.85			
1955.65	1955.65	1952.85			
1955.79	1955.79	1952.85			
1955.93	1955.93	1952.85			
1956.07	1956.07	1952.85			
1956.21	1956.21	1952.85			
1956.35	1956.35	1952.85			
1956.49	1956.49	1952.85			
1956.63	1956.63	1952.85			
1956.77	1956.77	1952.85			
1956.91	1956.91	1952.85			
1957.05	1957.05	1952.85			
1957.19	1957.19	1952.85			
1957.33	1957.33	1952.85			
1957.47	1957.47	1952.85			
1957.61	1957.61	1952.85			
1957.75	1957.75	1952.85			
1957.89	1957.89	1952.85			
1958.03	1958.03	1952.85			
1958.17	1958.17	1952.85			
1958.31	1958.31	1952.85			
1958.45	1958.45	1952.85			
1958.59	1958.59	1952.85			
1958.73	1958.73	1952.85			
1958.87	1958.87	1952.85			
1959.01	1959.01	1952.85			
1959.15	1959.15	1952.85			
1959.29	1959.29	1952.85			
1959.43	1959.43	1952.85			
1959.57	1959.57	1952.85			
1959.71	1959.71	1952.85			
1959.85	1959.85	1952.85			
1959.99	1959.99	1952.85			

No.	DATE	REVISION	CONSULT. ENG.
G	30/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M.
F	23/03/2021	STRIPMAP UPDATED	D.v.d.M.
E	25/02/2021	VERTICAL REVISED	D.v.d.M.
D	03/12/2020	VERTICAL REVISED	D.v.d.M.
C	13/09/2020	HORIZONTAL REVISED TO 100KM/H @ MAX 8%	D.v.d.M.
B	31/01/2020	HORIZONTAL REVISED	D.v.d.M.
A	18/12/2019	ORIGINAL VERSION	D.v.d.M.

CONSTRUCTION RECORD	WORKS CONTRACT ENGINEER	SANRAL PROJECT MANAGER
Name:	Name:	Name:
Date:	Date:	Date:

CESA
 50 YEARS CELEBRATION EST 1967 8017
 • ENGINEERING • PROCUREMENT • MANAGEMENT
 Registration No. 1990/0015767

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 Tel: +27 (21) 527 7000
 Fax: +27 (21) 527 7001

DESIGNED BY	CHECKED BY	DRAWN BY
Name: D.v.d.MERNE	Name: D.v.d.MERNE	Name: D.v.d.MERNE
Prof. Reg. No.: 20120196	Prof. Reg. No.: 20120196	Prof. Reg. No.: 20120196
Date:	Date:	Date:

CONSULTANT APPROVAL
Name: ANDRIE GREYLING
Prof. Reg. No.: 20060025
Date:

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SANRAL
 SOUTH AFRICAN NATIONAL ROADS AGENCY
 BUILDING SOUTH AFRICA THROUGH BETTER ROADS

NORTHERN REGION
 30 Ida Street
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 Pretoria
 6025
 Private Bag X17
 Lynnwood Ridge
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ACCEPTANCE
Name:
Date:

PROJECT DESCRIPTION
 IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)

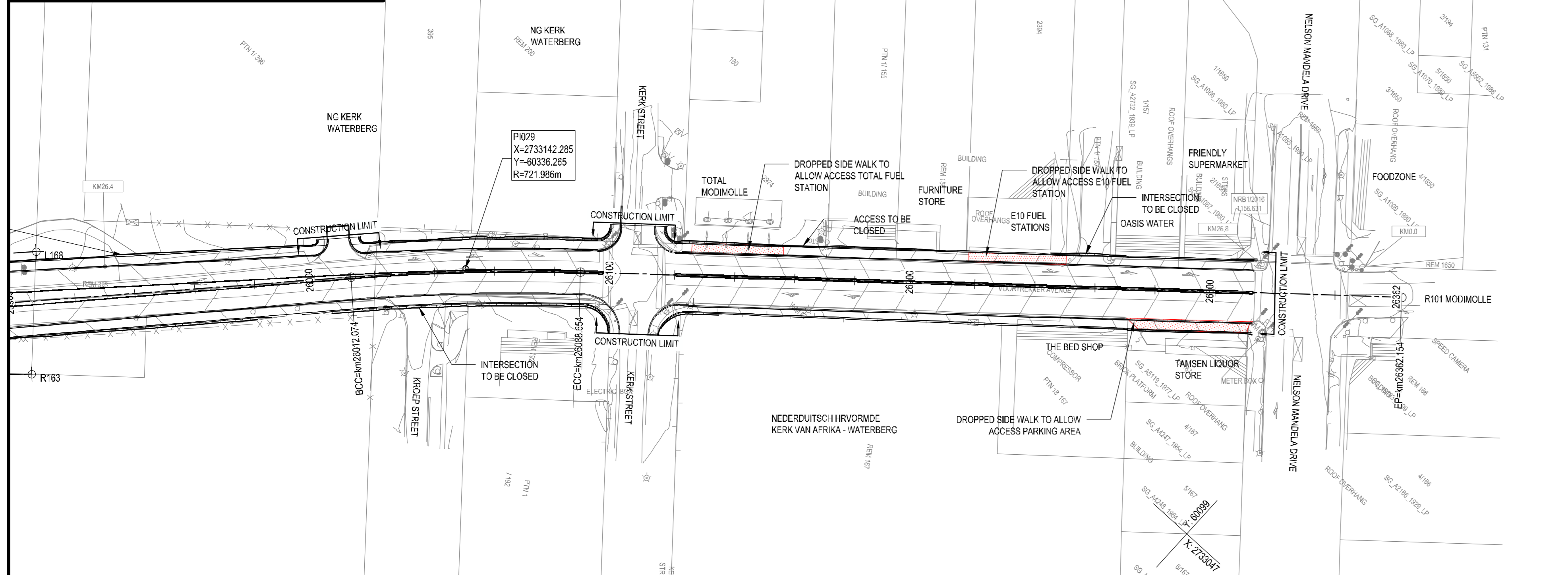
DRAWING NAME
 PLAN & PROFILE

SCALE: 1:1000

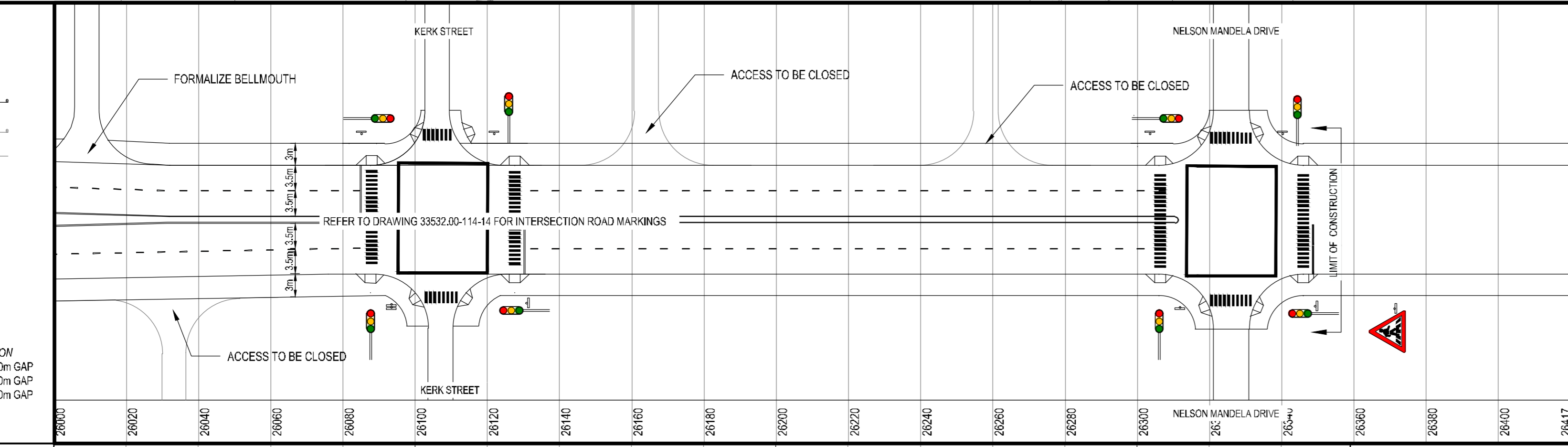
PROJECT NUMBER	R-101-080-2019/1	
DRAWING LOCATION DATA	ROUTE	START END
	SECTION	2 2
DRAWING TYPE	PLAN & PROFILE	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	PD 33532.00-110-26	
SANRAL DOCUMENT #	VER G	
SCALE: 1:1000	SHEET 26 OF 27	

33532.00-110 (MODIMOLLE).DWG

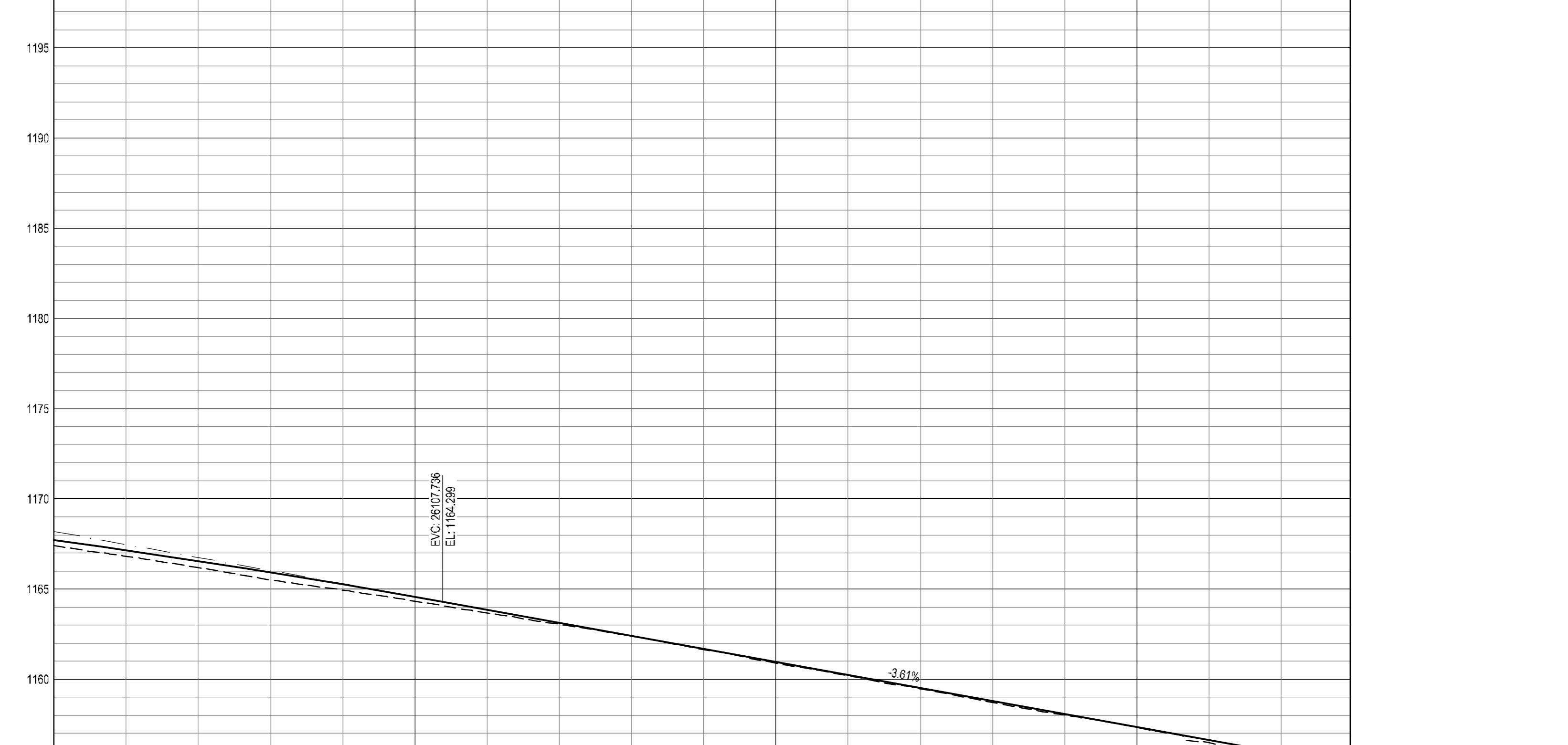
LEGEND	
SYMBOL	DESCRIPTION
	PROPOSED ROAD CENTERLINE (100km/h DESIGN SPEED)
	ROAD RESERVE
	EXISTING FENCE LINE
	EXISTING TELEPHONE POLE & CABLE
	EXISTING STREET LIGHT



LEGEND		
	PROPOSED CULVERT	
	EXISTING CULVERT	
	PROPOSED GUARDRAIL	
	EXISTING GUARDRAIL	
	EXISTING FENCE LINE	
	EXISTING TELEPHONE LINES	
	EXISTING STREET LIGHTS	
	W401 (80x150)	
	W402 (80x150)	
ROAD MARKINGS (REF. SARTSM)		
CODE	THICKNESS / COLOUR	CONFIGURATION
WMS STANDARD	100mm WHITE	4.0m LINE & 6.0m GAP
WMS STANDARD	300mm WHITE	2.0m LINE & 4.0m GAP
OW STANDARD	100mm WHITE	2.0m LINE & 4.0m GAP
PM1	100mm WHITE	SOLID LINE
PM1.5	150mm YELLOW	SOLID LINE
PM2	150mm WHITE	SOLID LINE



PROFILE LEGEND	
	PROPOSED ROAD TOP SURFACE
	PROPOSED ROAD ALIGNMENT (CL)
VERTICAL ALIGNMENT - 80km/h DESIGN SPEED	
	LEFT EDGE
	CENTRELINE
	RIGHT EDGE



FINAL DESIGN LEVELS	
LEFT EDGE	7m
CENTRELINE	0m
RIGHT EDGE	7m

DISTANCE (m)	GROUND LEVELS ON CL	FINAL DESIGN ROAD LEVELS	VERTICAL PROFILE GRADES	HORIZONTAL ALIGNMENT	SUPERELEVATION
0+000	1155.254	1155.254	0.00%	R=721.986m	0.00%
0+100	1155.254	1155.254	0.00%	R=721.986m	0.00%
0+200	1155.254	1155.254	0.00%	R=721.986m	0.00%
0+300	1155.254	1155.254	0.00%	R=721.986m	0.00%
0+400	1155.254	1155.254	0.00%	R=721.986m	0.00%
0+500	1155.254	1155.254	0.00%	R=721.986m	0.00%
0+600	1155.254	1155.254	0.00%	R=721.986m	0.00%
0+700	1155.254	1155.254	0.00%	R=721.986m	0.00%
0+800	1155.254	1155.254	0.00%	R=721.986m	0.00%
0+900	1155.254	1155.254	0.00%	R=721.986m	0.00%
1+000	1155.254	1155.254	-3.614%	R=721.986m	0.00%
1+100	1155.254	1155.254	-3.614%	R=721.986m	0.00%
1+200	1155.254	1155.254	-3.614%	R=721.986m	0.00%
1+300	1155.254	1155.254	-3.614%	R=721.986m	0.00%
1+400	1155.254	1155.254	-3.614%	R=721.986m	0.00%
1+500	1155.254	1155.254	-3.614%	R=721.986m	0.00%
1+600	1155.254	1155.254	-3.614%	R=721.986m	0.00%
1+700	1155.254	1155.254	-3.614%	R=721.986m	0.00%
1+800	1155.254	1155.254	-3.614%	R=721.986m	0.00%
1+900	1155.254	1155.254	-3.614%	R=721.986m	0.00%
2+000	1155.254	1155.254	-3.614%	R=721.986m	0.00%

No.	DATE	REVISION	CONSULT. ENG.
G	30/04/2021	RIGHT TURNING LANES ADDED	D.v.d.M
F	23/03/2021	STRIPMAP UPDATED	D.v.d.M
E	25/02/2021	VERTICAL REVISED	D.v.d.M
D	03/12/2020	VERTICAL REVISED	D.v.d.M
C	13/09/2020	HORIZONTAL REVISED TO 100KM/H @MAX 8%	D.v.d.M
B	31/01/2020	HORIZONTAL REVISED	D.v.d.M
A	18/12/2019	ORIGINAL VERSION	D.v.d.M

CONSTRUCTION RECORD	
WORKS CONTRACT ENGINEER	Name: _____
SANRAL PROJECT MANAGER	Name: _____

WESTERN CAPE
Cape Town
Block B2, Edison Square
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CSA
50 YEARS CELEBRATION
EST 1967-8017
• ENGINEERING • PROCUREMENT • MANAGEMENT
Registration No. 1998/001/5767

DESIGNED BY	
NAME	D.v.d.MERNE
Prof. Reg. No.	20120196
CHECKED BY	
NAME	D.v.d.MERNE
Prof. Reg. No.	20120196
DRAWN BY	
NAME	SS. CLAMINI

CONSULTANT APPROVAL	
NAME	ANDRIE GREYLING
Prof. Reg. No.	20060025

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Tel: (012) 844 8000

SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC. LTD.
BUILDING SOUTH AFRICA
THROUGH BETTER ROADS

NORTHERN REGION
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6025
Private Bag X17
Lynnwood Ridge
0040
Tel: (012) 426 6200

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 CEO: SA NATIONAL ROADS AGENCY SOC. LTD.
Date: _____

PROJECT DESCRIPTION	
IMPROVEMENT OF NATIONAL ROAD R101 SECTION 08 FROM BELA BELA (KM 0.0) TO MODIMOLLE (KM 26.8)	
DRAWING NAME PLAN & PROFILE	

PROJECT NUMBER		R.101-080-2019/1	
DRAWING LOCATION DATA	START	END	
ROUTE	2	2	
SECTION	8	8	
DRAWING km DISTANCE	KM26.00	KM26.36	
DRAWING TYPE	PLAN & PROFILE		
BRIDGE/STRUCTURE No.	N/A		
CONSULTANT DRAWING No.	PD	33532.00-110-27	
SANRAL DOCUMENT #	33532.00-110-27		
SCALE: 1:1000	SHEET 27 OF 27		VER G

33532.00-110 (MODIMOLLE).DWG