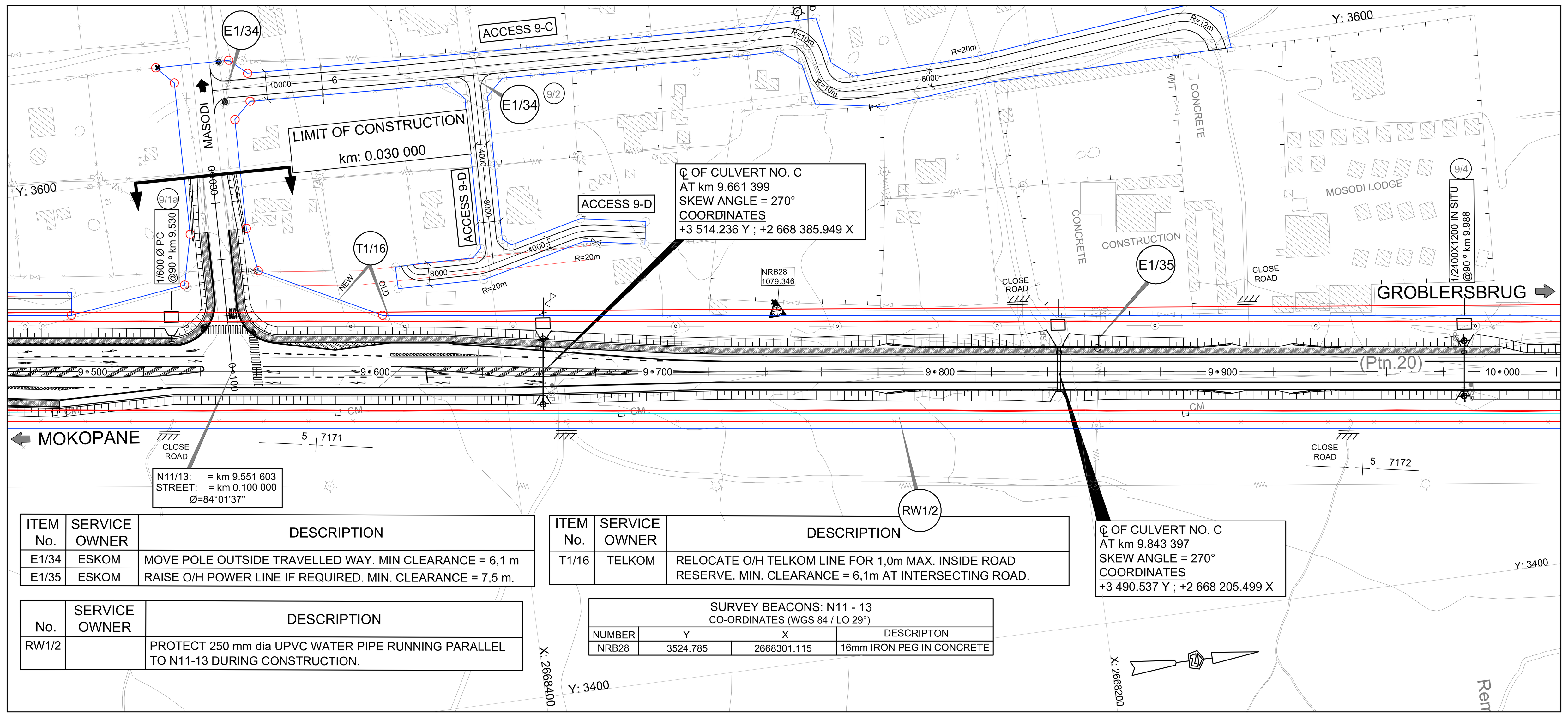


ITEM No.	SERVICE OWNER	DESCRIPTION
E1/34	ESKOM	MOVE POLE OUTSIDE TRAVELLED WAY. MIN CLEARANCE = 6,1 m
E1/35	ESKOM	RAISE O/H POWER LINE IF REQUIRED. MIN. CLEARANCE = 7,5 m.

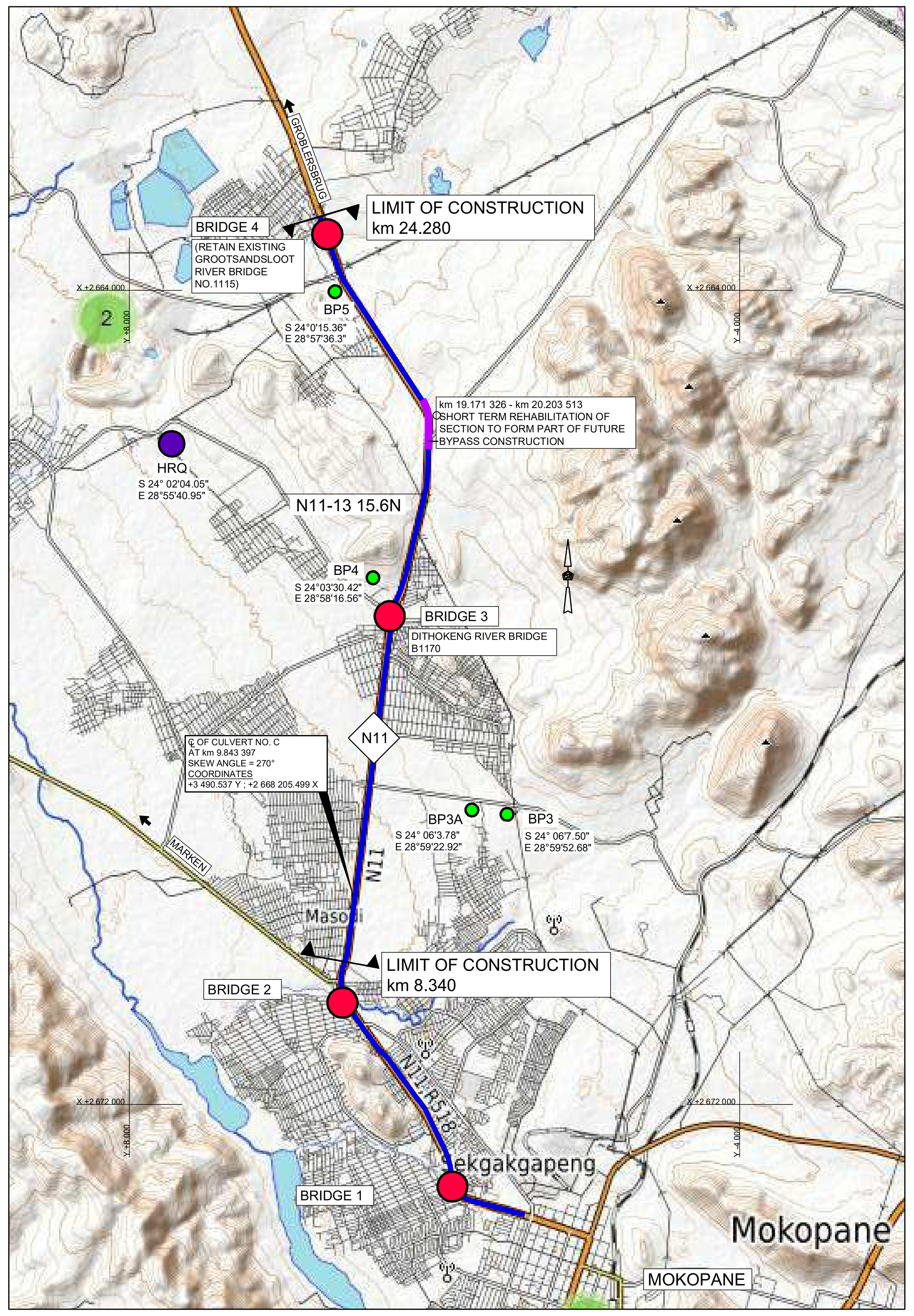
No.	SERVICE OWNER	DESCRIPTION
RW1/2		PROTECT 250 mm dia UPVC WATER PIPE RUNNING PARALLEL TO N11-13 DURING CONSTRUCTION.

ITEM No.	SERVICE OWNER	DESCRIPTION
T1/16	TELKOM	RELOCATE O/H TELKOM LINE FOR 1,0m MAX. INSIDE ROAD RESERVE. MIN. CLEARANCE = 6,1m AT INTERSECTING ROAD.

SURVEY BEACONS: N11 - 13
CO-ORDINATES (WGS 84 / LO 29°)

NUMBER	Y	X	DESCRIPTON
NRB28	3524.785	2668301.115	16mm IRON PEG IN CONCRETE

SITE PLAN
SCALE 1:1000



LOCALITY PLAN
SCALE 1:50 000

LEGEND
- EXISTING TELEPHONE LINE
- NEW RELOCATED TELEPHONE LINE
- EXISTING POWER LINE
- NEW RELOCATED POWER CABLE
- CULVERTS
- DOWN CHUTES
- CHANNEL OUTLET
- CATCHWATER BERM
- EXISTING WATER LINE
- GUARDRAIL
- NEW ACCESS
- FINAL ROAD RESERVE
- EXISTING ROAD RESERVE

GUARDRAILS	LEFT / RIGHT	
KERBS	LEFT / RIGHT	
BARRIER LINES	LEFT / RIGHT	
SUBSURFACE DRAIN	LEFT / RIGHT	
SIDE DRAIN	LEFT / RIGHT	
CLIMBING LANES	LEFT / RIGHT	

DESIGN SPEED
80 km/h

PROFILE

SCALES:
Horizontal 1:1000
Vertical 1:100

DATUM 1070.000

VERTICAL PROFILE GRADES: -1.167% ; BVC 9.900000 ; VCL=200.000m ; K=118 ; 10.000000 ; 1077.622 ; -0.523%

	9.680	9.700	9.720	9.740	9.760	9.780	9.800	9.820	9.840	9.860
FINAL DESIGN ROAD LEVELS: HL = 3.7m LEFT	1081.282	1081.048	1080.815	1080.582	1080.348	1080.115	1079.882	1079.648	1079.415	1079.182
FINAL DESIGN ROAD LEVELS: CENTRE LINE (CL)	1081.356	1081.122	1080.889	1080.656	1080.422	1080.189	1079.956	1079.722	1079.489	1079.256
FINAL DESIGN ROAD LEVELS: HR = 3.7m RIGHT	1081.282	1081.048	1080.815	1080.582	1080.348	1080.115	1079.882	1079.648	1079.415	1079.182
GROUND LEVELS ON CL	1081.122	1080.844	1080.464	1080.045	1079.624	1079.206	1078.842	1078.572	1078.372	1078.250
DISTANCE (km)	9.680	9.700	9.720	9.740	9.760	9.780	9.800	9.820	9.840	9.860

	9.880	9.900	9.920	9.940	9.960	9.980	10.000	10.020	10.040
FINAL DESIGN ROAD LEVELS: HL = 3.7m LEFT	1078.948	1078.715	1078.498	1078.316	1078.167	1078.052	1077.970	1077.923	1077.909
FINAL DESIGN ROAD LEVELS: CENTRE LINE (CL)	1079.022	1078.789	1078.572	1078.390	1078.241	1078.126	1078.044	1077.997	1077.983
FINAL DESIGN ROAD LEVELS: HR = 3.7m RIGHT	1078.948	1078.715	1078.498	1078.316	1078.167	1078.052	1077.970	1077.923	1077.909
GROUND LEVELS ON CL	1078.184	1078.148	1078.111	1078.038	1078.023	1077.982	1077.972	1077.958	1077.914
DISTANCE (km)	9.880	9.900	9.920	9.940	9.960	9.980	10.000	10.020	10.040

SUPERELEVATION: LEFT / RIGHT -2.0%

HORIZONTAL ALIGNMENT: DIRECTION 187° 28' 50"

APPROVED LONGITUDINAL SECTION: DRAWING NO. 251020/PP0/009/LS

LONGITUDINAL SECTION ALONG N11/13
SCALE: HOR. 1:1000
VERT. 1:100

NOTATION:
MOKOPANE → GROBLERSBRUG
DIRECTION OF FLOW
DIRECTION OF INCREASING KILOMETRE DISTANCE

LIST OF DRAWINGS

251020-PPO-MC10-01	SITE PLAN
251020-PPO-MC10-02	GENERAL LAYOUT
251020-PPO-MC10-03	GENERAL DETAILS
251020-PPO-MC10-04	REINFORCING LAYOUT AND BENDING SCHEDULE

FOR TENDER PURPOSES ONLY

No.	DATE	REVISION	CONSULT. ENG.

CONSTRUCTION RECORD
WORKS CONTRACT ENGINEER
Name :
Prof. Reg. No. :
Date :
SANRAL PROJECT MANAGER
Name :
Prof. Reg. No. :
Date :

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All dimensions to be checked on site before any work is put in hand. Refer any discrepancies to the engineer.

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DESIGNED BY — NAME / Prof. Reg. No.
CHECKED BY — NAME / Prof. Reg. No.
DRAWN BY — NAME

CONSULTANT APPROVAL
Name :
Prof. Reg. No. :
Date :

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BUILDING SOUTH AFRICA THROUGH BETTER ROADS

NORTHERN REGION
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Private Bag X17
Lynnwood Ridge
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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 LTD.
Date:

REHABILITATION OF NATIONAL ROUTE 11 SECTION 13 FROM R518 INTERSECTION (km 8.340) TO GROOTSANDSLOOT RIVER (km 24.280)

NEW 2/2.40 x 1.20m CULVERT AT km 9.843 397

SITE PLAN

SCALE : AS SHOWN — SHEET 1 OF 4

PROJECT NUMBER	NRA N.011-130-2010/1	
DRAWING LOCATION DATA	START	END
ROUTE	N11	N11
SECTION	13	13
DRAWING km DISTANCE	9.843	9.843
DRAWING TYPE	STRUCTURES-CULVERTS	
BRIDGE/STRUCTURE No.		
CONSULTANT DRAWING No.	251020-PPO-MC10-01	VER
SANRAL DOCUMENT #		V1