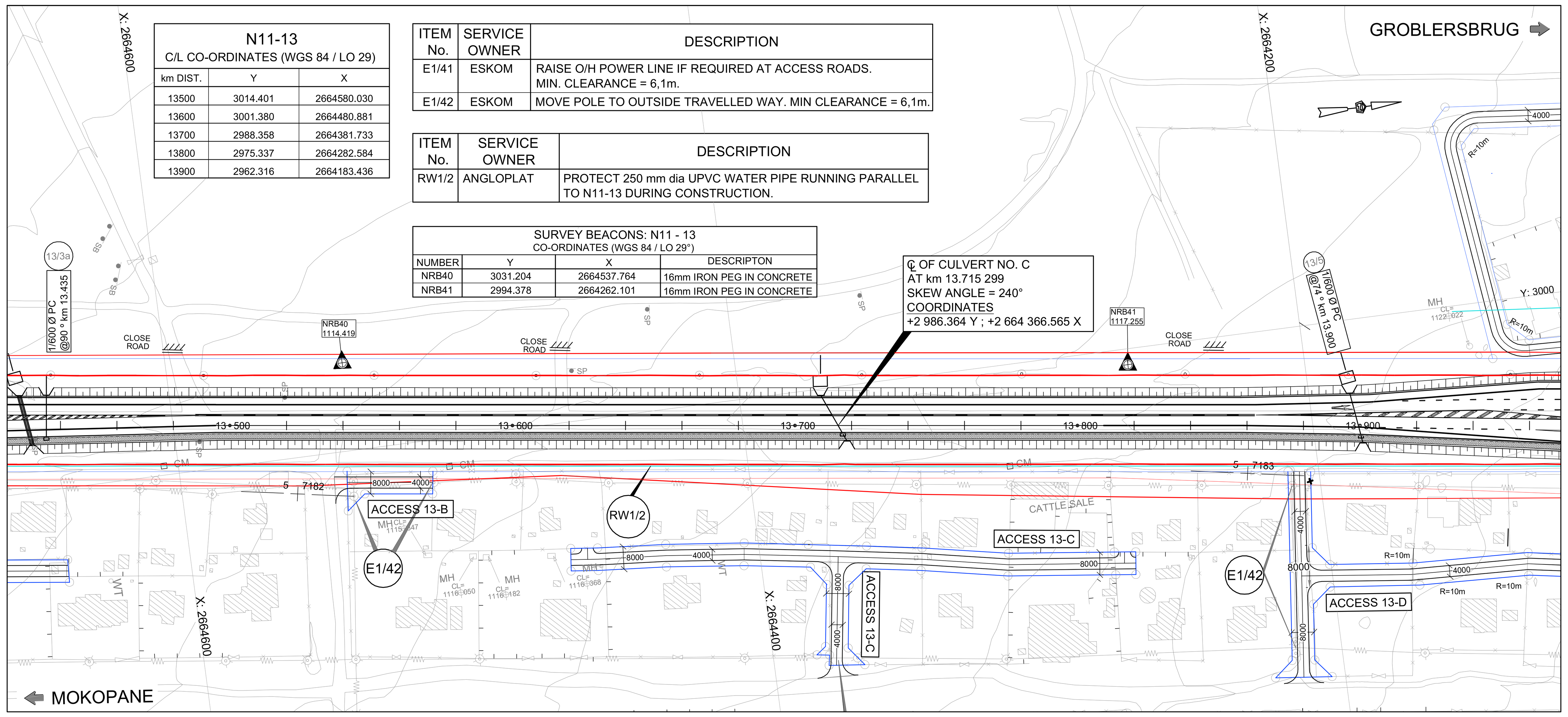
SITE PLAN
SCALE 1:1000



N11-13
C/L CO-ORDINATES (WGS 84 / LO 29)

km DIST.	Y	X
13500	3014.401	2664580.030
13600	3001.380	2664480.881
13700	2988.358	2664381.733
13800	2975.337	2664282.584
13900	2962.316	2664183.436

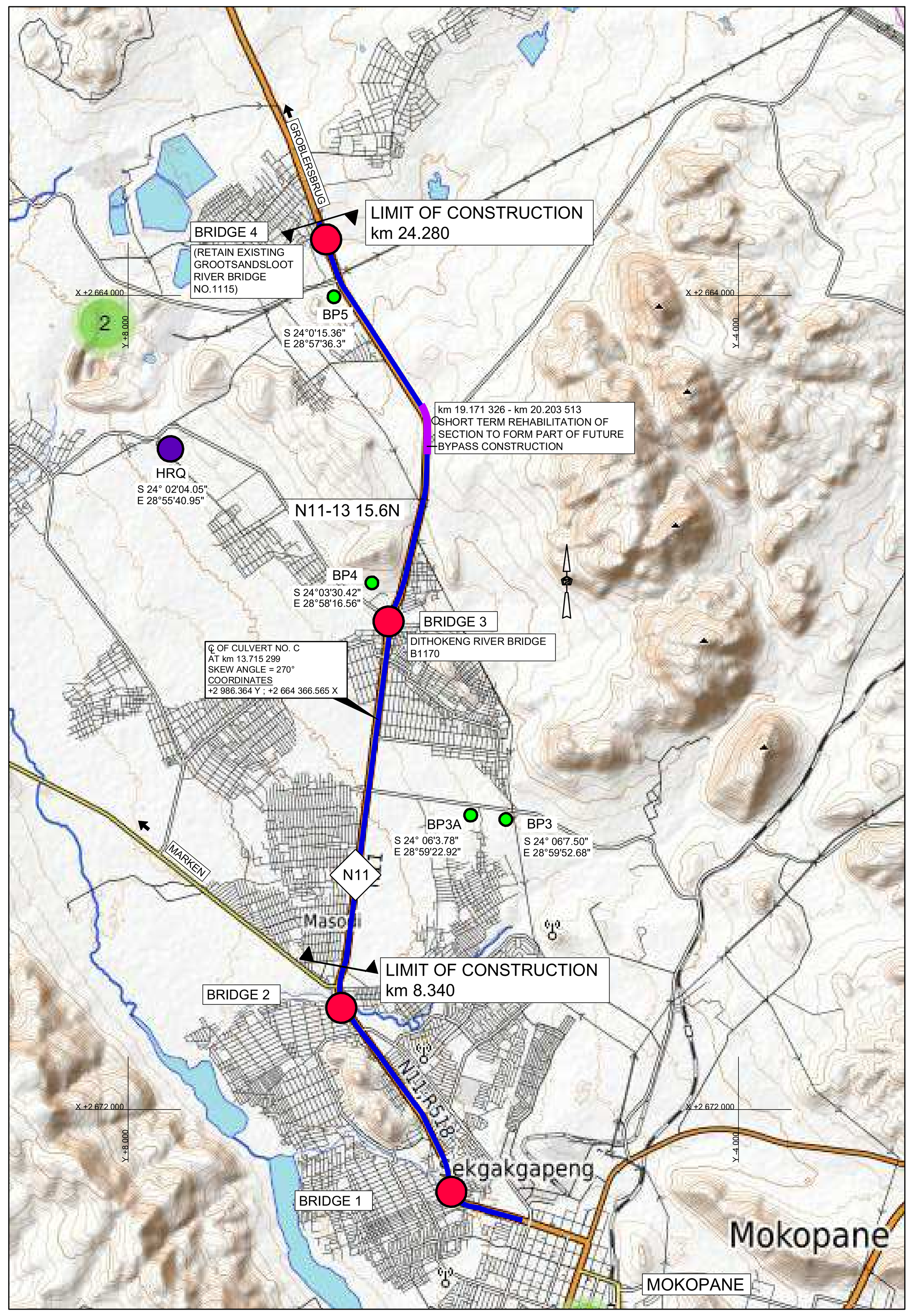
ITEM No.	SERVICE OWNER	DESCRIPTION
E1/41	ESKOM	RAISE O/H POWER LINE IF REQUIRED AT ACCESS ROADS. MIN. CLEARANCE = 6,1m.
E1/42	ESKOM	MOVE POLE TO OUTSIDE TRAVELLED WAY. MIN CLEARANCE = 6,1m.

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

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

NUMBER	Y	X	DESCRIPTON
NRB40	3031.204	2664537.764	16mm IRON PEG IN CONCRETE
NRB41	2994.378	2664262.101	16mm IRON PEG IN CONCRETE

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

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

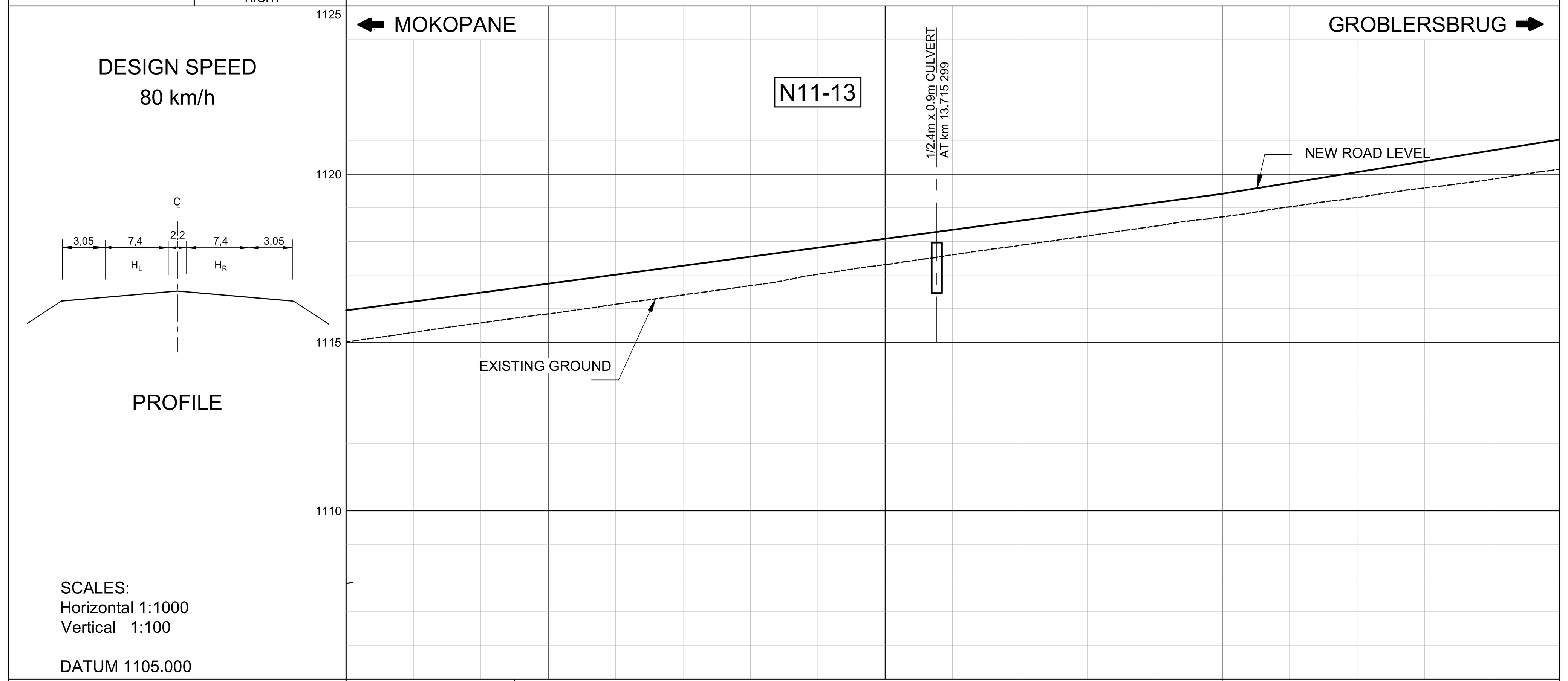
GUARDRAILS	LEFT / RIGHT
KERBS	LEFT / RIGHT
BARRIER LINES	LEFT / RIGHT
SUBSURFACE DRAIN	LEFT / RIGHT
SIDE DRAIN	LEFT / RIGHT
CLIMBING LANES	LEFT / RIGHT

DESIGN SPEED
80 km/h

PROFILE

SCALES:
Horizontal 1:1000
Vertical 1:100

DATUM 1105.000



VERTICAL PROFILE GRADES: EVC 13.590000; 1.333%; BVC 13.800000; VCL=200.000m K=365 13.900000

DISTANCE (km)	GROUND LEVELS ON CL	HL = 3.7m LEFT	CENTRE LINE (CL)	HR = 3.7m RIGHT
13.540	1115.012	1115.876	1115.950	1115.876
13.560	1115.303	1116.143	1116.217	1116.143
13.580	1115.584	1116.409	1116.483	1116.409
13.600	1115.853	1116.676	1116.750	1116.676
13.620	1116.135	1116.943	1117.017	1116.943
13.640	1116.416	1117.209	1117.283	1117.209
13.660	1116.688	1117.476	1117.550	1117.476
13.680	1117.028	1117.743	1117.817	1117.743
13.700	1117.313	1118.009	1118.083	1118.009
13.720	1117.604	1118.276	1118.350	1118.276
13.740	1117.883	1118.543	1118.617	1118.543
13.760	1118.167	1118.809	1118.883	1118.809
13.780	1118.451	1119.076	1119.150	1119.076
13.800	1118.732	1119.343	1119.417	1119.343
13.820	1119.028	1119.615	1119.689	1119.615
13.840	1119.306	1119.898	1119.972	1119.898
13.860	1119.591	1120.192	1120.266	1120.192
13.880	1119.849	1120.497	1120.571	1120.497
13.900	1120.148	1120.813	1120.887	1120.813

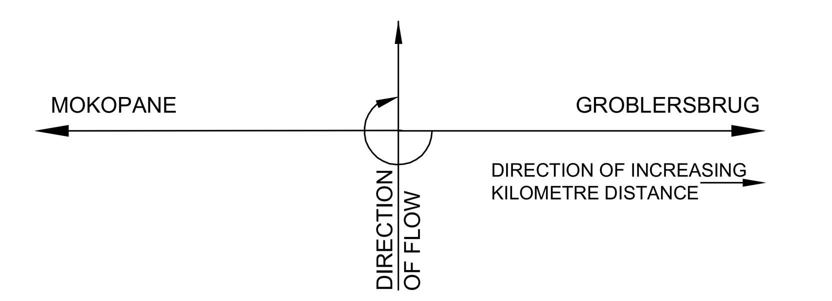
FINAL DESIGN ROAD LEVELS: HL, CL, HR columns above.

SUPERELEVATION: LEFT / RIGHT; -2.0%

HORIZONTAL ALIGNMENT: DIRECTION 187° 28' 50"

APPROVED LONGITUDINAL SECTION: DRAWING NO. 251020/PP0/013/LS

NOTATION:



LIST OF DRAWINGS

251020-PPO-MC15-01	SITE PLAN
251020-PPO-MC15-02	GENERAL LAYOUT
251020-PPO-MC15-03	GENERAL DETAILS
251020-PPO-MC15-04	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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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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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 1/2.40 x 0.90m CULVERT AT km 13.715 299

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	13.715	13.715
DRAWING TYPE	STRUCTURES-CULVERTS	
BRIDGE/STRUCTURE No.		
CONSULTANT DRAWING No.	251020-PPO-MC15-01	VER
SANRAL DOCUMENT #		V1