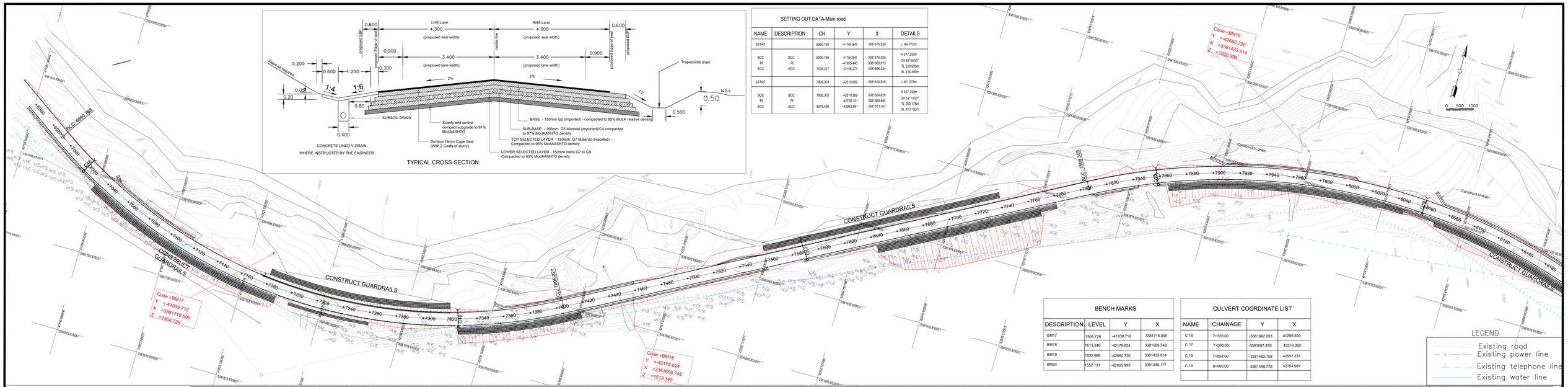
TYPICAL CROSS-SECTION

SETTING OUT DATA-Main road

NAME	DESCRIPTION	CH	Y	X	DETAILS
START		6990.768	-41764.847	3381676.526	L 164.710m
BCC PI ECC	BCC PI ECC	6990.768 7405.227	-41764.847 -41955.440 -42158.277	3381676.526 3381806.913 3381696.534	R 377.350m DA 62°55'50" TL 230.925m AL 414.460m
START		7806.303	-42510.569	3381504.825	L 401.076m
BCC PI ECC	BCC PI ECC	7806.303 8279.486	-42510.569 -42738.101 -42962.891	3381504.825 3381380.464 3381513.167	R 457.799m DA 58°13'20" TL 260.178m AL 473.182m



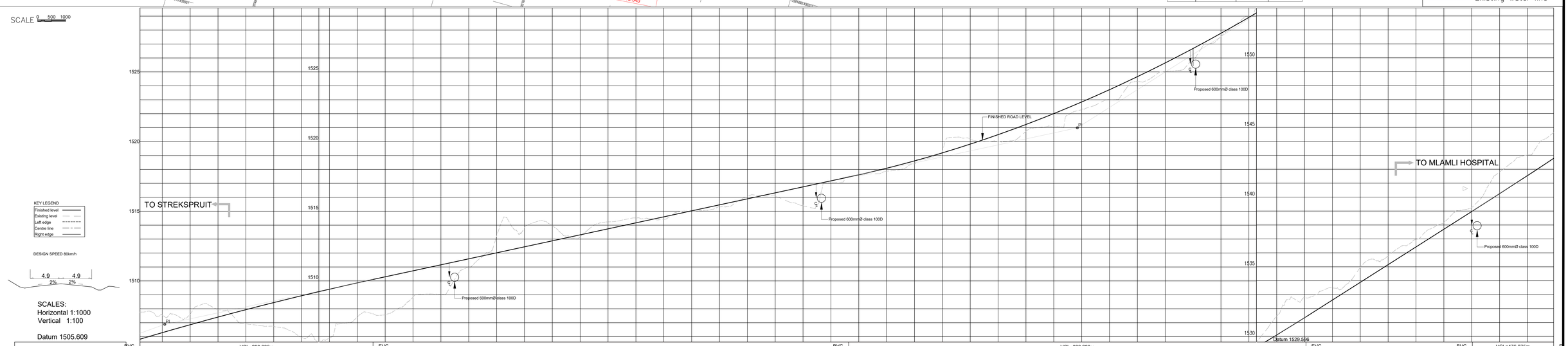
BENCH MARKS

DESCRIPTION	LEVEL	Y	X
BM17	1504.726	-41939.712	3381716.896
BM18	1513.340	-42178.824	3381659.748
BM19	1532.996	-42660.720	3381433.614
BM20	1552.131	-42955.993	3381448.177

CULVERT COORDINATE LIST

NAME	CHAINAGE	Y	X
C 16	7+320.00	-3381692.083	41789.593
C 17	7+580.00	-3381607.476	42319.362
C 18	7+858.00	-3381482.758	42557.231
C 19	8+060.00	-3381448.778	42754.987

LEGEND
- Existing road
- Existing power line
- Existing telephone line
- Existing water line



VERTICAL PROFILE GRADES: BVC 6972.264; VCL=299.036m K=204; EVC 7271.300; 7121.782; 506.886; 2.152%; BVC 7612.765; VCL=328.280m K=78; EVC 7941.045; 7776.905; 520.985; 6.351%; BVC 8060.455; VCL=476.875m K=219; 8298.893; 554.138

FINAL DESIGN ROAD LEVELS

Chainage	LEFT EDGE (HL)	CENTRE LINE (CL)	RIGHT EDGE (HR)	GROUND LEVELS ON CL
7104	1506.474	1506.817	1506.160	1507.799
7120	1506.944	1506.287	1506.630	1507.545
7140	1506.513	1506.856	1507.199	1507.615
7160	1507.062	1507.405	1507.748	1507.946
7180	1507.591	1507.934	1508.277	1508.922
7200	1508.102	1508.445	1508.788	1508.753
7220	1508.592	1508.935	1509.278	1509.948
7240	1509.063	1509.406	1509.749	1509.892
7260	1509.514	1509.857	1510.200	1507.406
7280	1509.948	1510.291	1510.634	1507.674
7300	1510.378	1510.721	1511.064	1508.831
7320	1510.809	1511.152	1511.495	1509.035
7340	1511.239	1511.582	1511.925	1510.979
7360	1511.670	1512.013	1512.356	1513.191
7380	1512.100	1512.443	1512.786	1513.810
7400	1512.609	1512.874	1513.138	1513.976
7420	1513.171	1513.934	1513.431	1513.168
7440	1513.636	1513.734	1513.725	1514.237
7460	1514.067	1514.165	1514.068	1514.525
7480	1514.497	1514.595	1514.497	1514.415
7500	1514.928	1515.026	1514.928	1515.013
7520	1515.358	1515.456	1515.358	1515.313
7540	1515.789	1515.887	1515.789	1516.084
7560	1516.219	1516.317	1516.219	1516.091
7580	1516.650	1516.748	1516.650	1515.389
7600	1517.080	1517.178	1517.080	1517.043
7620	1517.514	1517.612	1517.514	1517.608
7640	1517.988	1518.086	1517.988	1517.872
7660	1518.514	1518.612	1518.514	1518.397
7680	1519.091	1519.189	1519.091	1519.312
7700	1519.719	1519.817	1519.719	1520.184
7720	1520.388	1520.486	1520.398	1520.002
7740	1521.128	1521.226	1521.128	1520.728
7760	1521.921	1522.028	1521.910	1521.107
7780	1522.866	1522.841	1522.743	1522.306
7800	1523.884	1523.724	1523.564	1523.008
7820	1524.942	1524.659	1524.377	1524.310
7840	1525.949	1525.646	1525.342	1525.031
7860	1526.987	1526.683	1526.379	1525.843
7880	1528.075	1527.771	1527.488	1527.551
7900	1529.215	1528.911	1528.607	1528.982
7920	1530.406	1530.102	1529.798	1531.402
7940	1531.648	1531.344	1531.040	1532.778
7960	1532.918	1532.614	1532.310	1533.485
7980	1534.188	1533.884	1533.581	1534.961
8000	1535.458	1535.155	1534.851	1535.777
8020	1536.729	1536.425	1536.121	1536.958
8040	1537.999	1537.695	1537.391	1538.186
8060	1539.269	1538.965	1538.661	1539.243
8080	1540.548	1540.244	1539.940	1541.802
8100	1541.845	1541.542	1541.238	1543.024
8119	1543.085	1542.781	1542.477	1544.653

SUPERELEVATION: 7.0%, -7.0%, -2.0%, -2.0%, -2.0%, -2.0%, 6.2%, -6.2%

HORIZONTAL ALIGNMENT: BCC 6990.768; CURVE 14 LEFT R=377.350m l=272° 54' 40"; ECC 7405.227; DIRECTION 241° 26' 50"; BCC 7806.303; CURVE 15 RIGHT R=457.799m l=271° 03' 20"; ECC 8279.486

DISTANCE (m): 7104, 7120, 7140, 7160, 7180, 7200, 7220, 7240, 7260, 7280, 7300, 7320, 7340, 7360, 7380, 7400, 7420, 7440, 7460, 7480, 7500, 7520, 7540, 7560, 7580, 7600, 7620, 7640, 7660, 7680, 7700, 7720, 7740, 7760, 7780, 7800, 7820, 7840, 7860, 7880, 7900, 7920, 7940, 7960, 7980, 8000, 8020, 8040, 8060, 8080, 8100, 8119

LONGSECTION MAIN ROAD
From 7104 to 8119.000

ISSUED FOR DESIGN

Drawing Nr	Reference Drawing	Date	Chkd	Apprv

Rev	Description	Date	Chkd	Apprv

Client: Province of the EASTERN CAPE TRANSPORT

Project: THE COMPLETION OF UPGRADING TO A SURFACE STANDARD DR08606(+/- 12Km) STERKSPRUIT TO MLAMLI

Consultant: MASILAKHE CONSULTING DEVELOPMENT MANAGERS

Approved: _____
Name S.K.Anthony Date: 25-05-2018

Drawing Title: HORIZONTAL AND VERTICAL ALIGNMENT Ch 7+104.000 TO Ch 8+119.00

Proj. Engineer	S.K.Anthony
Designed	M.Gadlela
Drawn	M.Gadlela
Checked	S.K.Anthony
Proj. Manager	S.K.Anthony

Scale: 1:1000
Sheet No. 08 OF 12
Project No. E 240
Drawing No. H.V.A-001
Revision T