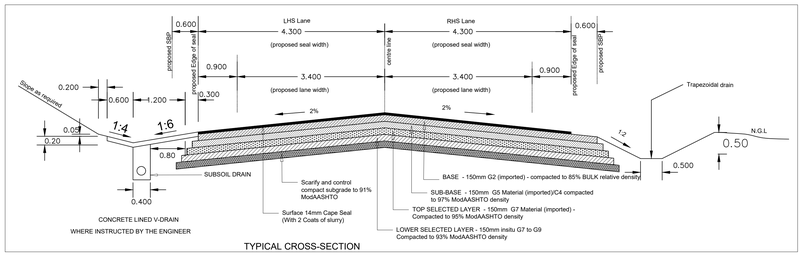
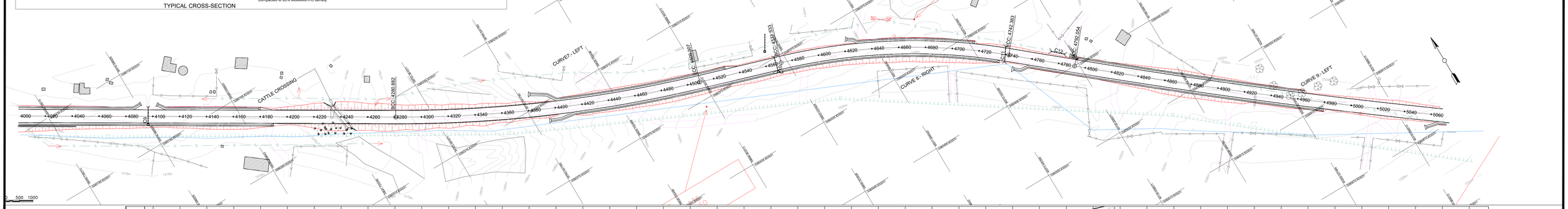
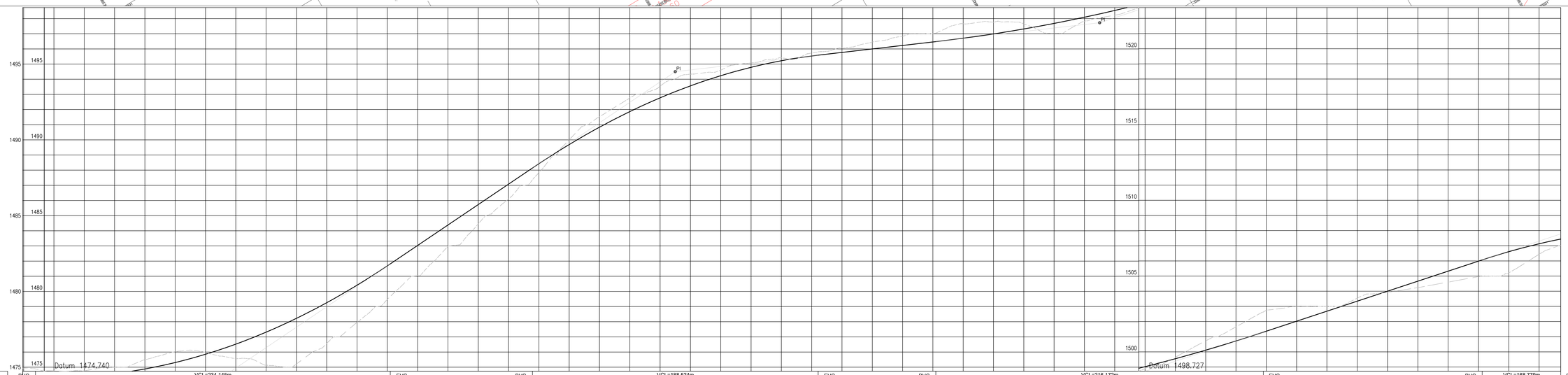


TYPICAL CROSS-SECTION

SETTING OUT DATA-Main road

NAME	DESCRIPTION	CH	Y	X	DETAILS
STRAIGHT		3318.881	-38836.282	3379832.942	L 556.050m
CURVE 6	BCC PI ECC	3318.881 3495.549	-38836.282 -38927.093 -39006.364	3379832.942 3379814.845 3379862.702	R 238.793m DA 42°23'20" TL 92.596m AL 176.668m
STRAIGHT		4280.882	-39678.682	3380268.581	L 785.333m
CURVE 7	BCC PI ECC	4280.882 4509.307	-39678.682 -39776.912 -39886.259	3380268.581 3380327.882 3380362.650	R 970.833m DA 13°28'50" TL 114.742m AL 228.425m
STRAIGHT		4571.533	-39945.560	3380381.505	L 62.226m
CURVE 8	BCC PI ECC	4571.533 4742.383	-39945.560 -40028.059 -40093.962	3380381.505 3380407.736 3380463.870	R 429.640m DA 22°47'00" TL 86.569m AL 170.850m





SCALES:
Horizontal 1:1000
Vertical 1:100

Datum 1474.740

VERTICAL PROFILE GRADES

BVC 4067.807 | VCL=234.145m K=33 | EVC 4301.952 | BVC 4395.754 | VCL=188.524m K=34 | EVC 4584.278 | BVC 4661.919 | VCL=216.172m K=100 | EVC 4878.091 | BVC 5022.462 | VCL=168.779m K=40 | EVC 5191.241

-0.375% | 4184.879 | 1473.923 | 6.743% | 4490.016 | 1494.499 | 1.153% | 4770.031 | 1497.727 | 3.304% | 5106.830 | 1508.855

FINAL DESIGN ROAD LEVELS

CH	LEFT EDGE (HL)	CENTRE LINE (CL)	RIGHT EDGE (HR)	GROUND LEVELS ON CL
4060	1474.241	1474.339	1474.241	1474.758
4080	1474.301	1474.399	1474.301	1474.765
4100	1474.482	1474.580	1474.482	1474.990
4120	1474.786	1474.884	1474.786	1475.496
4140	1475.210	1475.308	1475.210	1476.023
4160	1475.757	1475.855	1475.757	1475.977
4180	1476.425	1476.523	1476.425	1475.568
4200	1477.214	1477.312	1477.214	1475.137
4220	1478.126	1478.224	1478.126	1475.210
4240	1479.158	1479.256	1479.232	1476.566
4260	1480.288	1480.411	1480.522	1477.958
4280	1481.510	1481.687	1481.863	1479.466
4300	1482.858	1483.035	1483.211	1481.030
4320	1484.207	1484.383	1484.560	1482.867
4340	1485.556	1485.732	1485.909	1484.459
4360	1486.904	1487.081	1487.257	1486.102
4380	1488.250	1488.427	1488.603	1487.834
4400	1489.515	1489.691	1489.867	1490.002
4420	1490.660	1490.838	1491.013	1491.832
4440	1491.687	1491.863	1492.040	1492.759
4460	1492.595	1492.772	1492.948	1493.534
4480	1493.397	1493.561	1493.725	1494.335
4500	1494.166	1494.232	1494.299	1494.900
4520	1494.832	1494.765	1494.738	1495.075
4540	1495.380	1495.219	1495.058	1495.411
4560	1495.807	1495.534	1495.261	1495.727
4580	1496.081	1495.767	1495.454	1496.067
4600	1496.311	1495.998	1495.684	1496.460
4620	1496.542	1496.228	1495.915	1496.832
4640	1496.773	1496.459	1496.145	1497.007
4660	1497.019	1496.705	1496.392	1497.659
4680	1497.306	1496.992	1496.679	1497.764
4700	1497.631	1497.318	1497.006	1497.653
4720	1497.910	1497.684	1497.459	1497.827
4740	1498.179	1498.090	1497.979	1497.828
4760	1498.489	1498.538	1498.458	1498.227
4780	1498.923	1499.021	1498.923	1498.898
4800	1499.448	1499.546	1499.448	1499.645
4820	1500.013	1500.111	1500.013	1500.725
4840	1500.618	1500.716	1500.618	1501.651
4860	1501.263	1501.361	1501.263	1502.745
4880	1501.923	1502.021	1501.923	1502.983
4900	1502.584	1502.682	1502.584	1503.004
4920	1503.245	1503.343	1503.245	1503.545
4940	1503.906	1504.004	1503.906	1503.920
4960	1504.567	1504.665	1504.567	1504.240
4980	1505.227	1505.325	1505.227	1504.691
5000	1505.888	1505.986	1505.888	1504.962
5020	1506.510	1506.608	1506.510	1505.269
5040	1507.032	1507.130	1507.032	1506.436
5060	1507.343	1507.441	1507.343	1507.009
5074				

SUPERELEVATION

-2.0% | 3.6% | 3.6% | 6.4% | 6.4% | -2.0%

-2.0% | -3.6% | -3.6% | -6.4% | -6.4% | -2.0%

HORIZONTAL ALIGNMENT

DIRECTION 301° 07' 10" | BCC 4280.882 | CURVE 6 LEFT R=970.833m l=294° 22' 40" | ECC 4509.307 | DIRECTION 287° 38' 20" | BCC 4571.533 | CURVE 7 RIGHT R=429.640m l=299° 01' 50" | ECC 4742.383 | DIRECTION 310° 20' 20" | BCC 4792.054 | CURVE 8 LEFT R=4356.642m l=307° 35' 10" | ECC 5223.298

DISTANCE (m): 4060, 4080, 4100, 4120, 4140, 4160, 4180, 4200, 4220, 4240, 4260, 4280, 4300, 4320, 4340, 4360, 4380, 4400, 4420, 4440, 4460, 4480, 4500, 4520, 4540, 4560, 4580, 4600, 4620, 4640, 4660, 4680, 4700, 4720, 4740, 4760, 4780, 4800, 4820, 4840, 4860, 4880, 4900, 4920, 4940, 4960, 4980, 5000, 5020, 5040, 5060, 5074

ISSUED FOR TENDER

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: 07-02-2020

Drawing Title

HORIZONTAL AND VERTICAL ALIGNMENT
Ch 4+059 TO Ch 5+074.000

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. 5 OF 12

Project No.: E 240

Drawing No.: H.V.A-001

Revision: T