Curve List

Umgwenya 2023

No	Radius	TR In	TR Out	TAN In	TAN out	Deflection
0	0.000	0.000	0.000	0.000	0.000	0.00.00
1	0.000	0.000	0.000	0.000	0.000	2.24.21
2	22.500	0.000	0.000	23.475	23.475	92.25.50
3	80.000	0.000	0.000	9.063	9.063	12.55.36
4	40.000	0.000	0.000	4.466	4.466	12.44.28
5	120.000	0.000	0.000	9.656	9.656	9.12.03
6	20.000	0.000	0.000	21.332	21.332	93.41.29
7	0.000	0.000	0.000	0.000	0.000	0.00.00

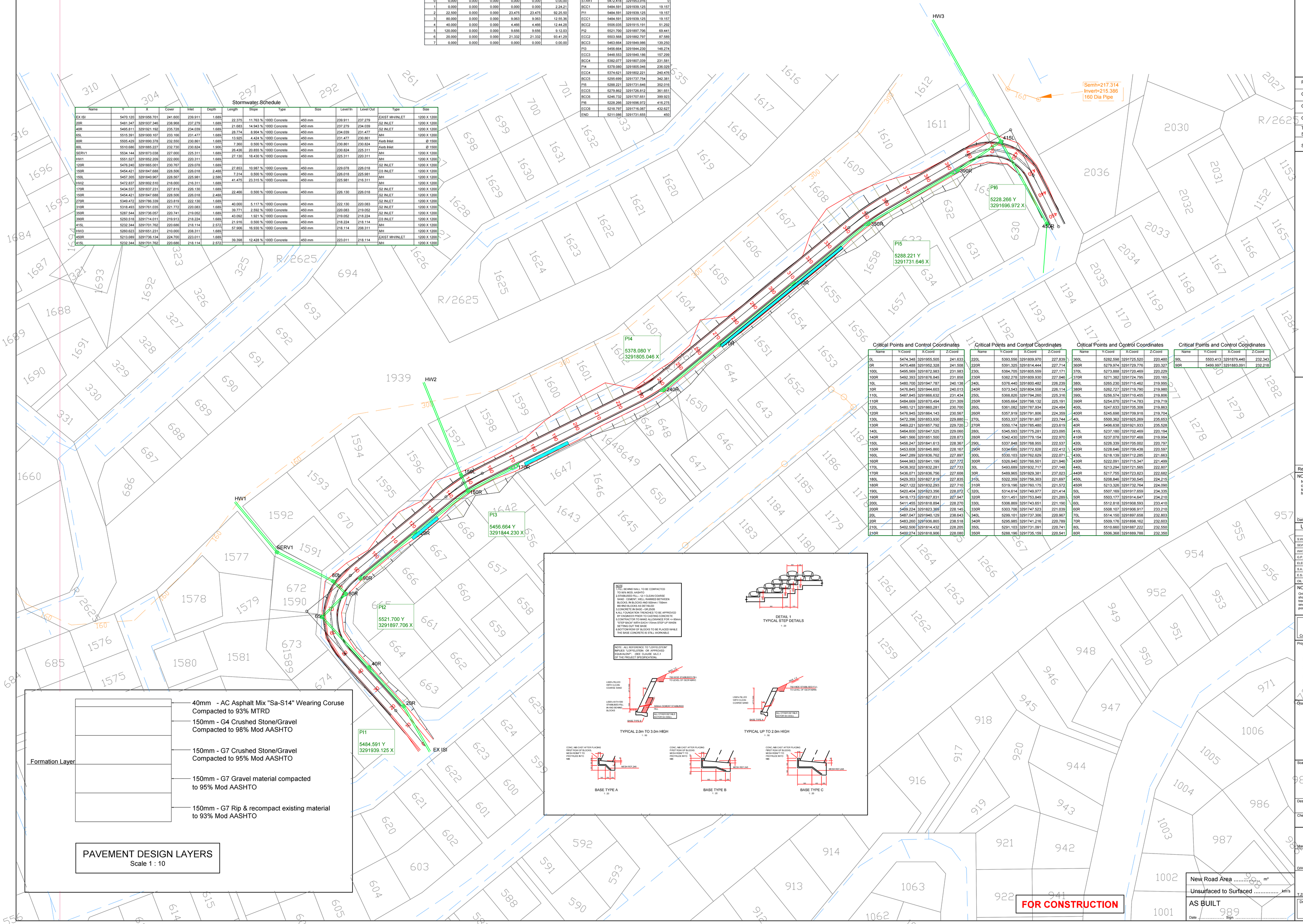
Road List

Umgwenya 2023

Position	Y	X	CH
START	5472.418	3291953.916	0
BCC1	5484.591	3291939.125	19.157
PI1	5484.591	3291939.125	19.157
ECC1	5484.591	3291939.125	19.157
BCC2	5506.035	3291915.191	51.292
PI2	5521.700	3291897.706	69.441
ECC2	5503.568	3291882.797	87.589
BCC3	5463.664	3291849.986	139.250
PI3	5456.664	3291844.230	148.274
ECC3	5448.553	3291840.186	157.299
BCC4	5382.077	3291807.039	231.581
PI4	5378.080	3291805.046	236.029
ECC4	5374.621	3291802.221	240.478
BCC5	5295.699	3291737.754	342.381
PI5	5288.221	3291731.646	352.016
ECC5	5279.862	3291726.812	361.651
BCC6	5246.732	3291707.651	399.923
PI6	5228.266	3291696.972	416.275
ECC6	5218.797	3291716.087	432.627
END	5211.086	3291731.655	450

Stormwater Schedule

Name	Y	X	Cover	Inlet	Depth	Length	Slope	Type	Size	Level In	Level Out	Type	Size
EX ISI	5470.120	3291956.701	241.600	239.911	1.689	22.375	11.763 %	100D Concrete	450 mm	239.911	237.279	EXIST MH/INLET	1200 X 1200
20S	5481.347	3291937.346	238.955	237.279	1.689	21.683	14.943 %	100D Concrete	450 mm	237.279	234.039	S2 INLET	1200 X 1200
40R	5495.811	3291921.192	235.728	234.039	1.689	28.774	8.904 %	100D Concrete	450 mm	234.039	231.477	S2 INLET	1200 X 1200
65L	5515.391	3291900.107	233.166	231.477	1.689	13.925	4.424 %	100D Concrete	450 mm	231.477	230.861	MH	1200 X 1200
80R	5505.429	3291890.378	232.550	230.861	1.689	7.360	0.500 %	100D Concrete	450 mm	230.861	230.824	Kerb Inlet	Ø 1500
80L	5510.686	3291885.227	232.730	230.824	1.906	26.436	20.855 %	100D Concrete	450 mm	230.824	225.311	Kerb Inlet	Ø 1500
SERV1	5534.144	3291873.038	227.000	225.311	1.689	27.130	18.430 %	100D Concrete	450 mm	225.311	220.311	MH	1200 X 1200
HW1	5551.527	3291852.209	222.000	220.311	1.689							MH	1200 X 1200
120R	5476.240	3291865.001	230.767	229.078	1.689	27.853	10.987 %	100D Concrete	450 mm	229.078	226.018	S2 INLET	1200 X 1200
150R	5454.421	3291847.688	228.506	226.018	2.488	7.314	0.500 %	100D Concrete	450 mm	226.018	225.981	D3 INLET	1200 X 1200
150L	5457.305	3291840.967	228.567	225.981	2.586	41.475	23.315 %	100D Concrete	450 mm	225.981	216.311	MH	1200 X 1200
HW2	5472.837	3291802.510	218.000	216.311	1.689							MH	1200 X 1200
170R	5434.537	3291837.231	227.819	226.130	1.689	22.466	0.500 %	100D Concrete	450 mm	226.130	226.018	S2 INLET	1200 X 1200
150R	5454.421	3291847.688	228.506	226.018	2.488							S2 INLET	1200 X 1200
270R	5349.472	3291786.339	223.819	222.130	1.689							S2 INLET	1200 X 1200
310R	5318.493	3291761.035	221.772	220.083	1.689	40.000	5.117 %	100D Concrete	450 mm	222.130	220.083	S2 INLET	1200 X 1200
350R	5287.544	3291736.057	220.741	219.052	1.689	39.771	2.592 %	100D Concrete	450 mm	220.083	219.052	S2 INLET	1200 X 1200
390R	5250.518	3291714.011	219.913	218.224	1.689	43.092	1.921 %	100D Concrete	450 mm	219.052	218.224	D3 INLET	1200 X 1200
415L	5232.344	3291701.762	220.686	218.114	2.572	21.916	0.500 %	100D Concrete	450 mm	218.224	218.114	MH	1200 X 1200
HW3	5260.623	3291651.231	210.000	208.311	1.689	57.906	16.930 %	100D Concrete	450 mm	218.114	208.311	MH	1200 X 1200
450R	5213.089	3291736.134	224.700	223.011	1.689	39.398	12.428 %	100D Concrete	450 mm	223.011	218.114	EXIST MH/INLET	1200 X 1200
415L	5232.344	3291701.762	220.686	218.114	2.572							MH	1200 X 1200



Critical Points and Control Coordinates

Name	Y-Coord	X-Coord	Z-Coord
0L	5474.348	3291955.505	241.633
0R	5470.468	3291952.328	241.508
100L	5495.569	3291872.983	231.983
100R	5492.393	3291876.845	231.858
10L	5480.700	3291947.787	240.138
10R	5476.845	3291944.603	240.013
110L	5487.845	3291866.632	231.434
110R	5484.669	3291870.494	231.309
120L	5480.121	3291860.281	230.700
120R	5476.945	3291864.143	230.567
130L	5472.396	3291853.930	229.880
130R	5469.221	3291857.792	229.720
140L	5464.600	3291847.525	229.060
140R	5461.566	3291851.500	228.873
150L	5456.247	3291841.613	228.367
150R	5453.608	3291845.860	228.167
160L	5447.289	3291836.762	227.897
160R	5444.983	3291841.199	227.772
170L	5438.302	3291832.281	227.733
170R	5436.071	3291836.756	227.658
180L	5429.353	3291827.816	227.835
180R	5427.122	3291832.293	227.710
190L	5420.404	3291823.356	228.072
190R	5418.173	3291827.831	227.947
200L	5411.455	3291818.894	228.270
200R	5409.224	3291823.369	228.145
20L	5487.047	3291940.129	238.643
20R	5483.260	3291936.865	238.518
210L	5402.506	3291814.432	228.205
210R	5400.274	3291818.906	228.080

Critical Points and Control Coordinates

Name	Y-Coord	X-Coord	Z-Coord
220L	5393.556	3291809.970	227.839
220R	5391.325	3291814.444	227.714
230L	5384.705	3291805.559	227.171
230R	5382.278	3291809.930	227.046
240L	5376.440	3291800.482	226.239
240R	5373.543	3291804.558	226.114
250L	5368.826	3291794.260	225.316
250R	5365.664	3291798.132	225.191
260L	5361.082	3291787.934	224.484
260R	5357.919	3291791.806	224.359
270L	5353.337	3291781.607	223.744
270R	5350.174	3291785.480	223.619
280L	5345.593	3291775.281	223.095
280R	5342.430	3291779.154	222.970
290L	5337.848	3291768.955	222.537
290R	5334.685	3291772.828	222.412
300L	5330.103	3291762.629	222.071
300R	5326.940	3291766.501	221.946
30L	5493.689	3291932.717	237.148
30R	5489.965	3291929.381	237.023
310L	5322.359	3291756.303	221.697
310R	5319.196	3291760.175	221.572
320L	5314.614	3291749.977	221.414
320R	5311.451	3291753.849	221.289
330L	5306.869	3291743.651	221.190
330R	5303.706	3291747.523	221.039
340L	5299.101	3291737.306	220.967
340R	5295.985	3291741.216	220.789
350L	5291.103	3291731.091	220.741
350R	5288.196	3291735.159	220.541

Critical Points and Control Coordinates

Name	Y-Coord	X-Coord	Z-Coord
360L	5282.598	3291725.520	220.480
360R	5279.974	3291729.776	220.327
370L	5273.888	3291720.469	220.229
370R	5271.382	3291724.795	220.165
380L	5265.230	3291715.462	219.995
380R	5262.727	3291719.790	219.980
390L	5256.574	3291710.455	219.806
390R	5254.070	3291714.783	219.719
400L	5247.633	3291705.308	219.863
400R	5245.698	3291709.918	219.704
40L	5500.362	3291925.269	235.653
40R	5496.638	3291921.933	235.528
410L	5237.180	3291702.469	220.194
410R	5237.078	3291707.468	219.994
420L	5226.339	3291705.002	220.797
420R	5228.646	3291709.438	220.597
430L	5218.139	3291712.285	221.663
430R	5222.091	3291715.347	221.499
440L	5213.294	3291721.565	222.807
440R	5217.755	3291723.823	222.682
450L	5208.846	3291730.545	224.215
450R	5213.326	3291732.764	224.090
50L	5507.169	3291917.659	234.335
50R	5503.177	3291914.647	234.210
60L	5512.818	3291908.593	233.410
60R	5508.107	3291900.917	233.210
70L	5514.150	3291897.658	232.803
70R	5509.176	3291898.162	232.603
80L	5510.660	3291887.222	232.550
80R	5506.368	3291889.788	232.350

Critical Points and Control Coordinates

Name	Y-Coord	X-Coord	Z-Coord
90L	5503.413	3291879.440	232.343
90R	5499.997	3291883.091	232.218

PAVEMENT DESIGN LAYERS
Scale 1 : 10

New Road Area ..... m²

Unsurfaced to Surfaced ..... km's

AS BUILT

Date ..... Sign .....

FOR CONSTRUCTION

eTHEKWINI MUNICIPALITY

ENGINEERING UNIT
ROADS PROVISION DEPARTMENT

PLAN DESCRIPTION	DWG. NO.	
CONTINUED FROM		
CONTINUED ON		
CROSS SECTIONS		
TYPICAL CROSS SECTION		
SURVEY LAYOUT		

REDUCED PLAN USE SCALE BELOW

0 10 20 30 40 50 60 70

70mm ON ORIGINAL PLAN

DRAWN IN ALLYWINDOWS

WG31

Revision	Date	Description

NOTE:
No construction work to commence until land and servitude acquisitions have been completed

Acquisitions completed

Date ..... Engineer .....

NORTH POINT

UNDERGROUND SERVICES CHECKED

SERVICE	DATE	SIGNATURE
S.W.DRAINS		
SEWERS		
WATER MAINS		
G.P.O.CABLES		
ELECTRIC CABLES		
S.A.R. CABLES		
E.S.C. CABLES		
OIL PIPE LINE		

NOTE:
Only underground services affected by new construction work are shown. Care must be taken during excavations for road foundations, trenches etc., to avoid damage to underground services such as sewers, drains, cables, water mains and connections. Wherever possible these must be located before work proceeds.

Contract No
1R-27572

Project Title
UPGARDE OF UMGWENYA CIRCLE
GRAVEL TO SURFACE
WARD 45

Drawing Title
PLAN AND SETTING OUT

Scales	Reference

Designed	Date
LNJ CLOETE	DECEMBER 2023
Checked	Drawn in AllyWindows by
B.GOVENDER	LNJ CLOETE

Manager RD (N)

D/H : RP

T.Zulu — Head : Engineering

Drawing No	Sheet 1 of 1 Sheets