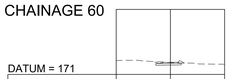
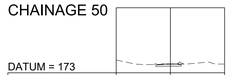
CHAINAGE 60



DATUM = 171

OFFSET	-5.000	-2.983	-1.328	1.328	2.983	5.000
ELEVATION	172.296	172.308 172.308	172.110 172.110	172.043 172.043	172.054 171.997	171.909

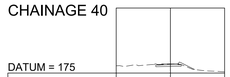
CHAINAGE 50



DATUM = 173

OFFSET	-5.000	-3.245	-2.508	-1.171	0.182 0.182	1.457	3.524	5.000
ELEVATION	174.175	173.798	173.759	173.763	173.851 173.851	173.798	173.867 173.802	173.798

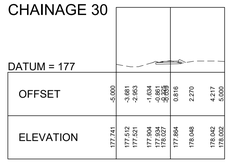
CHAINAGE 40



DATUM = 175

OFFSET	-4.692	-3.174 -3.174	-1.831	-0.770	-0.060 -0.060	2.065	3.210	5.000
ELEVATION	176.487	175.278 175.278	175.780	175.798	175.842 175.842	175.342	175.209	175.115

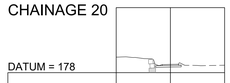
CHAINAGE 30



DATUM = 177

OFFSET	-5.000	-3.661	-2.963	-1.634	-0.861 -0.861	0.818	2.370	4.217	5.000
ELEVATION	177.741	177.512 177.512	177.370	177.604	177.704 177.704	177.664	178.048	178.042 178.042	178.009

CHAINAGE 20



DATUM = 178

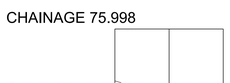
OFFSET	-5.000	-4.429	-3.464	-2.418	-0.759	1.547 1.547	2.944	5.000
ELEVATION	179.429	179.460	179.392	179.299	179.277	178.832	178.882 178.882	178.883	178.883

CHAINAGE 10

DATUM = 179

OFFSET	-4.883	-4.691	-2.806	-0.794	0.956	2.794 2.794	5.000
ELEVATION	180.296	180.496 180.496	180.306	180.414	180.302	180.377 180.377	179.993	179.993

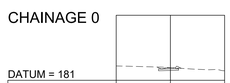
CHAINAGE 75.998



DATUM = 169

OFFSET	-5.000	-3.196 -3.711	0.674	1.541
ELEVATION	170.009	169.688 169.688	169.449 169.449	169.460

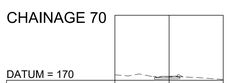
CHAINAGE 0



DATUM = 181

OFFSET	-5.000	-5.000 -5.000	2.078 2.605	3.464	4.291	5.000
ELEVATION	182.322	182.781 182.781	182.031 182.008	182.669	182.012	181.876

CHAINAGE 70



DATUM = 170

OFFSET	-5.000	-3.799	-2.702 -2.702	-1.317	0.058 0.058	1.351	3.179	5.143
ELEVATION	170.608	170.400	170.480 170.480	170.261	170.305 170.305	170.303	170.264	170.208

FOOTPATH 4

CHAINAGE 56.837

DATUM = 182

OFFSET	-5.000	-3.861	-2.196	-0.152	1.543 1.543	2.342	4.717
ELEVATION	183.605	183.595	183.468 183.468	183.307	183.307 183.307	183.260	183.164

CHAINAGE 50

DATUM = 183

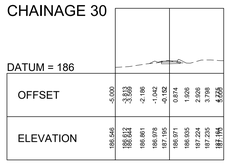
OFFSET	-5.000	-1.478	0.618	2.207	5.000
ELEVATION	183.691	183.784	183.530 183.530	183.884	183.796

CHAINAGE 40

DATUM = 184

OFFSET	-5.000	-1.628	-0.922 -0.922	0.872	5.000
ELEVATION	185.480	185.104	185.017 185.017	185.001	184.868

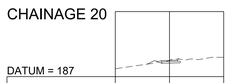
CHAINAGE 30



DATUM = 186

OFFSET	-5.000	-3.833 -3.833	-2.186	-0.152	0.874	1.606	3.799	5.000
ELEVATION	186.566	186.644 186.644	186.801	187.195	186.971	186.935	187.254	187.225

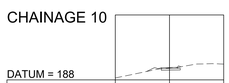
CHAINAGE 20



DATUM = 187

OFFSET	-5.000	-1.566	-0.897	0.865	2.222	5.000
ELEVATION	187.236	188.219	188.246	188.623 188.623	188.525	188.795

CHAINAGE 10



DATUM = 188

OFFSET	-5.000	-1.031	-0.294	2.326	3.853	5.000
ELEVATION	188.179	189.005	189.072	189.218 189.218	189.468	189.499	189.461

CHAINAGE 0

DATUM = 187

OFFSET	-5.000	-4.687	-1.901	-1.041	0.704	3.716	5.000
ELEVATION	187.255	187.441	186.177	186.362	186.525	186.791 186.791	186.915

FOOTPATH 5

CHAINAGE 60

DATUM = 193

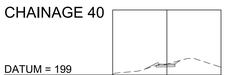
OFFSET	-4.805	-2.541	-0.579 -0.579	1.914	3.331	5.000
ELEVATION	193.934	194.273	195.041 195.041	195.119	195.505 195.549	195.875

CHAINAGE 50

DATUM = 196

OFFSET	-5.000	-3.497	-3.163 -3.163	-0.664	2.249 2.249	5.000
ELEVATION	196.979	197.071	197.373 197.373	196.975	196.955 196.955	197.269

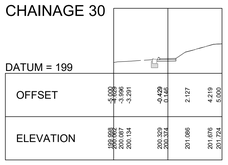
CHAINAGE 40



DATUM = 199

OFFSET	-5.000	-3.545 -3.545	-0.766 -0.766	2.196	5.000
ELEVATION	199.063	199.228 199.228	199.891 199.891	200.016	199.718

CHAINAGE 30



DATUM = 199

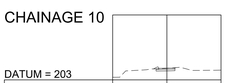
OFFSET	-5.000	-3.998 -3.998	-3.996	-3.435	-0.429 -0.429	2.127	4.219	5.000
ELEVATION	200.668 200.668	200.667 200.667	200.047 200.144	200.329 200.329	201.066	201.676	201.724

CHAINAGE 20

DATUM = 201

OFFSET	-5.000	-4.177	-3.212	-1.728 -1.728	0.599	1.205	1.825	3.469	5.000
ELEVATION	201.786	201.786	201.814	202.014 202.014	202.458	202.403	202.403	202.419	202.551

CHAINAGE 10



DATUM = 203

OFFSET	-5.000	-5.000 -5.000	-3.799	-1.403	-0.194 -0.194	1.232	2.331	5.000
ELEVATION	203.230 203.230	203.230 203.230	203.634	204.014	204.061	204.170	203.872	203.930

CHAINAGE 0

DATUM = 205

OFFSET	-4.845	-3.336	-1.488 -1.488	1.127	5.000
ELEVATION	205.946	206.085	206.180 206.180	206.348 206.348	206.344

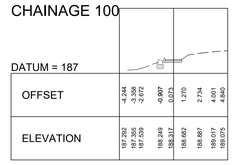
FOOTPATH 6

CHAINAGE 104.519

DATUM = 186

OFFSET	-3.959	-3.220 -3.220	-0.065	1.475	2.220	3.741
ELEVATION	186.468	186.588 186.588	187.895	188.138	188.219	188.314 188.314

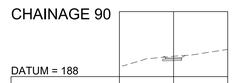
CHAINAGE 100



DATUM = 187

OFFSET	-4.334	-4.334	-2.672	-0.907 -0.907	0.073	1.270	2.734	4.001	4.840
ELEVATION	187.202 187.202	187.202 187.539	188.249 188.317	188.682	188.887	189.017	189.075

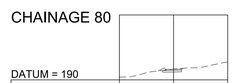
CHAINAGE 90



DATUM = 188

OFFSET	-4.743	-3.802 -3.802	-0.960	1.592	5.000
ELEVATION	188.887	189.233 189.233	189.914	189.983	190.519

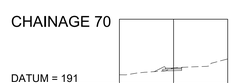
CHAINAGE 80



DATUM = 190

OFFSET	-5.000	-3.896 -3.896	-0.154	1.126 1.126	2.581	4.410	5.000
ELEVATION	192.258	192.256 192.256	191.103 191.103	191.562 191.562	191.658

CHAINAGE 70



DATUM = 191

OFFSET	-5.000	-4.428 -4.428	-2.721	-0.775 -0.775	0.007 0.007	3.009	4.906
ELEVATION	191.874 191.874	192.023 192.023	192.098	192.230 192.454	192.544	192.694	193.311

FOOTPATH 6

FOR TENDER

GENERAL NOTES

NOTES :

1. PROVE ALL SERVICES PRIOR TO CONSTRUCTION.
2. ALL LEVELS, DIMENSIONS AND SETTING OUT TO BE VERIFIED ON SITE.
3. ALL SETTING OUT TO BE UNDERTAKEN BY A REGISTERED PROFESSIONAL LAND SURVEYOR.
4. ALL SURVEY AND SETTING OUT DATA PROVIDED IS BASED ON (WGS 84).
5. ALL WORK AREAS TO BE REINSTATED (PREMIX, CONCRETE, ETC.)
6. MUNICIPALITY TO EXECUTE ALL CONNECTIONS INTO MUNICIPAL LINES.
7. UNLESS OTHERWISE AGREED WITH ENGINEER, CONTRACTOR TO SUPPLY ENGINEER WITH RESULTS OF COMPACTION TESTS, AND WHEN APPLICABLE, PERCENTAGE STABILIZATION TESTS ON BACKFILL.
8. ALL WORKS IN ACCORDANCE WITH UMNGENI LOCAL MUNICIPALITY SPECIFICATIONS,SANS 1200 AND COTO 2020.
9. THE ENGINEER REQUIRES 24 HOURS NOTICE FOR ALL INSPECTIONS.
10. THIS DRAWING IS FOR INFORMATION PURPOSES IN ORDER TO ASSIST THE CONTRACTOR FOR THE SETTING OUT AND CONSTRUCTION OF THE WORKS. IT MUST BE NOTED THAT SITE CONDITIONS MAY CHANGE ON SITE AND CONSTRUCTION OF WORKS MAY BE AFFECTED. THE CONTRACTOR IS TO TIMEOUSLY INFORM THE ENGINEER OF ANY CHANGES ENCOUNTERED ON SITE PRIOR TO UNDERTAKING ANY WORK.

MATERIAL COMPLIANCE TESTING :

1. RESULTS OF COMPACTION AND CBR TESTS ON INSITU SUB-BASE MATERIAL AND FILLED SUB-BASE MATERIAL MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE THE UPPER LAYER WORKS ARE IMPORTED TO THE SITE AND PLACED.
2. CONCRETE CUBE TEST RESULTS FOR 7 AND 28 DAYS FOR EACH SEPERATE CONCRETE ITEM TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
3. PRIOR TO IMPORTING ANY MATERIAL ONTO SITE, MATERIALS CLASSIFICATIONS AND OR ASPHALT MIX DESIGNS AND OR CONCRETE FOR THE ALL REQUIRED MATERIALS ARE TO BE FIRST SUBMITTED TO THE ENGINEER FOR APPROVAL.
4. ALL MATERIALS TESTING ARE TO BE UNDERTAKEN BY AN ACCREDITED SANAS ACREDITED LABORATORY.

FREQUENCY OF TESTS :

1. CBR TESTS 1 PER 50m².
2. COMPACTION TESTS 1 PER 50m² NOTE : COMPACTION TESTS WILL BE REQUIRED FOR EACH OF THE VARYING LAYER THAT IS INSITU OR IMPORTED AND COMPACTED IN PLACE.

RETAINING WALL :

1. ALL LEVELS AND DIMENSIONS TO BE CHECKED ON SITE.
2. ALL CONCRETE WORK IS TO COMPLY WITH SANS 1200G.
3. CONCRETE GRADE : - FOUNDATION 25 / 19
4. ALL FOUNDATION EXCAVATIONS ARE TO BE INSPECTED BY THE ENGINEER PRIOR TO CASTING OF CONCRETE.
5. ALL REINFORCING FIXING IS TO BE INSPECTED BY THE ENGINEER PRIOR TO CASTING OF CONCRETE.
6. SIX CONCRETE CUBES TO BE TAKEN PER BATCH. THREE CUBES TO BE TESTED AT SEVEN DAYS, THE REMAINDER AT TWENTY EIGHT DAYS. THE RESULTS ARE TO BE FORWARDED TO THE ENGINEER FOR REVIEW AND APPROVAL.
7. SET BOTTOM ROW OF BLOCKS IN WET CONCRETE.
8. ALL BACKFILL TO BE COMPACTED TO 93% MOD AASHTO DENSITY
9. STORM WATER BEHIND THE TOP OF THE WALL TO BE MANAGED IN SUCH A MANNER AS TO OBVIATE SCOUR BEHIND OR OVER - TOPPING OF THE WALL.

SIDEWALKS :

1. ALL LEVELS, DIMENSIONS AND SETTING OUT DETAILS TO BE VERIFIED BY CONSULTANT AND CONTRACTORS ON SITE PRIOR TO CONSTRUCTION.
2. THE POSITIONS OF DRIVEWAY ACCESSES ARE TO BE DETERMINED IN CONSULTATION WITH THE LOCAL COMMUNITY / RESIDENTS AS EXACT POSITIONS MAY VARY ONSITE.
3. CONCRETE WEDGES ACCORDING TO CIVIL ENGINEERS DETAILS AND SPECIFICATIONS MAY BE USED IN PLACE OF SURFACED BELL-MOUTHS FOR ACCESSES SERVING SINGLE RESIDENTIAL PROPERTIES.
4. EXISTING ROAD SIGNS, SERVICES AND FENCING AFFECTED BY CONSTRUCTION ARE TO BE REMOVED/RELOCATED ON INSTRUCTION BY THE CIVIL ENGINEER.
5. NEW FILLS AND EXPOSED CUTS ARE TO BE TOP-SOILED AND VEGETATED IMMEDIATELY AFTER CONSTRUCTION TO PREVENT EROSION.

KERBS :

1. ALL CAST IN SITU CONCRETE IS TO BE GRADE 20 / 19.
2. THE SURFACES OF THE CAST IN SITU CHANNEL / FILLET ARE TO HAVE A STEEL FLOAT FINISH.
3. EXPANSION JOINTS TO BE FORMED THROUGH THE KERBING, CHANNEL / FILLET AND FOUNDATIONS AT INTERVALS NOT EXCEEDING 18.0m.
4. CONTRACTION JOINTS TO BE FORMED THROUGH THE CHANNEL / FILLET AT 20m INTERVALS.
5. WHERE KERB RADIUS IS LESS THAN 25m THE KERB LENGTH SHALL BE 300mm. WHERE THE KERB RADIUS IS LESS THAN 2m THE KERBING SHALL BE CAST IN SITU.
6. PRECAST KERBS ARE TO BE LAID WITH A 13mm GAP BETWEEN KERBS, WHICH SHALL THEN BE FILLED WITH A CEMENT MORTAR.
7. EXTRUDED KERBS.
   a) ASPHALT KERB:
   1. ASPHALT TO COMPLY WITH THE REQUIREMENTS OF SANS.
   b) CONCRETE KERB:
   1. THE CONCRETE IS TO HAVE A CUBE STRENGTH OF 20MPa AT 28 DAYS.
   2. THE CONCRETE MIX DESIGN IS TO BE APPROVED BY THE ENGINEER.
   3. CONTRACTION JOINTS TO BE FORMED AT 2.0m INTERVALS.
   4. EXPANSION JOINTS ARE TO FORMED AT 6.0m INTERVALS ON STRAIGHTS AND 2.0m INTERVALS WHERE THE KERB RADIUS IS LESS THAN 50m.

SCALE (mm)

No.	REFERENCE DRAWINGS
631/BEXT/904	TYPICAL DRY STACK RETAINING WALL DETAILS
631/BEXT/903	TYPICAL DETAILS
631/BEXT/902-2	FOOTPATH 4,5 & 6 CROSS SECTIONS
631/BEXT/902-1	FOOTPATH 1,2 & 3 CROSS SECTIONS
631/BEXT/901-3	FOOTPATH 5 & 6 LONGITUDINAL SECTION
631/BEXT/901-2	FOOTPATH 3 & 4 LONGITUDINAL SECTION
631/BEXT/901-1	FOOTPATH 1 & 2 LONGITUDINAL SECTION
631/BEXT/900	FOOTPATHS LAYOUT AND DETAIL

REV	DESCRIPTION	BY	DATE
T1	ISSUED FOR TENDER	A.D	11/02/2026

Professional person : L. SINGH PrTech Eng — Registration : 201370301

CLIENT

eTHEKWINI MUNICIPALITY

PROJECT

PROVISION OF INCREMENTAL SERVICES WITHIN THE NORTHERN REGION: B EXTENSION & CURNICK NDLOVU

DETAILS

FOOTPATHS 4, 5 & 6
CROSS SECTIONS

MAP AFRICA CONSULTING
SABS ISO 9001 CESA
SUITE GR01A, GROUND FLOOR, BUSINESS PARTNERS CENTRE
23 JAN HOFMEYER ROAD, WESTVILLE, 3630
e-mail: admin@mapafrica.co.za
FAX (031) 3092929 TEL. (031) 3095831

DESIGNED	L.S	COPYRIGHT RESERVED	SCALES H 1: 200 V 1:200
DRAWN	A.D		
APPROVED	L.S	PL	DATE 11/02/2026

CONTRACT No. 4V- 36924

DRAWING No. 631/BEXT/902-2 REV T1