CHAINAGE 60

DATUM = 159

OFFSET	-5.000	-2.020	2.019	5.000
ELEVATION	159.985	160.354 160.496	160.603	160.611

CHAINAGE 50

DATUM = 163

OFFSET	-5.000	-2.782 -1.922	1.100 2.206	3.501 5.000
ELEVATION	163.509	164.095 163.255	165.743 165.571 165.610	165.500

CHAINAGE 40

DATUM = 167

OFFSET	-5.000	-3.976	1.767	5.000
ELEVATION	167.323	167.424	167.222	167.022

CHAINAGE 30

DATUM = 169

OFFSET	-5.000	-3.141	0.136	2.138 2.405
ELEVATION	169.606	169.743	169.949	170.054 170.065

CHAINAGE 20

DATUM = 171

OFFSET	-5.000	-2.425 -2.304	-1.487 -1.229	1.467 2.190
ELEVATION	171.443	171.489 171.446	171.704 171.843	172.644 172.937

CHAINAGE 10

DATUM = 175

OFFSET	-5.000	-3.891 -2.951	-1.820 0.631	5.000
ELEVATION	175.009	175.074 175.072 175.049	175.294	175.553

CHAINAGE 0

DATUM = 175

OFFSET	-5.000	-3.674	-1.156	2.597 3.361
ELEVATION	175.232	175.347	175.650	175.924 175.957

CHAINAGE 61

DATUM = 159

OFFSET	-5.000	-3.176	-0.570	1.463 5.000
ELEVATION	159.587	159.864	160.287	160.325 160.467

FOOTPATH 1

CHAINAGE 60

DATUM = 161

OFFSET	-4.810	-0.567	4.324 5.000
ELEVATION	162.506	162.139	161.570 161.575

CHAINAGE 50

DATUM = 160

OFFSET	-5.000	-4.089	-0.420	5.000
ELEVATION	160.693	160.731	160.581	160.192

CHAINAGE 40

DATUM = 158

OFFSET	-5.000	-2.878	1.239 2.317	5.000
ELEVATION	159.205	159.087	158.777 158.822	158.894

CHAINAGE 30

DATUM = 157

OFFSET	-5.000	-0.325	5.000
ELEVATION	157.107	157.179	157.889

CHAINAGE 20

DATUM = 155

OFFSET	-5.000	-3.491	-1.542 -0.658	0.471	3.711 5.000
ELEVATION	156.506	156.364	155.769 155.535	155.539	155.427 155.516

CHAINAGE 10

DATUM = 154

OFFSET	-4.748	-3.593	-1.764	1.281 3.840 5.000
ELEVATION	154.604	154.612 154.480	154.437	154.450 154.254

CHAINAGE 0

DATUM = 152

OFFSET	-5.000	-4.242	-2.040 -1.265	0.183 1.662 5.000
ELEVATION	152.446 152.504	153.531 153.870	153.874	153.892	152.963

CHAINAGE 66

DATUM = 163

OFFSET	-5.000	-2.033	-0.250 1.179	4.926
ELEVATION	163.452	163.459	163.378 163.301	163.345

FOOTPATH 2

CHAINAGE 60

DATUM = 177

OFFSET	-5.000	-4.393	-0.906	0.450 2.540 3.938 5.000	
ELEVATION	179.257 179.247	178.762	178.309	177.747 177.404 177.056	

CHAINAGE 50

DATUM = 175

OFFSET	-5.000	-3.376	0.982	4.989
ELEVATION	175.462	175.448	175.570	175.756

CHAINAGE 40

DATUM = 170

OFFSET	-5.000	-2.177	-0.763	0.517	2.999 4.857
ELEVATION	170.768	171.738 172.656	172.742	172.799	172.847

CHAINAGE 30

DATUM = 169

OFFSET	-5.000	-4.111 -3.382	-0.768 0.227	1.790	3.359 5.000
ELEVATION	169.787 169.848 170.058	170.567	170.224	170.925	171.085 171.149

CHAINAGE 20

DATUM = 168

OFFSET	-5.000	-2.284	-0.888	0.755 5.000
ELEVATION	168.907	168.748 168.898	169.013	169.034

CHAINAGE 83

DATUM = 183

OFFSET	-5.000	-2.558	-1.066	1.500 5.000
ELEVATION	184.341	184.333 184.108	184.028	183.777

CHAINAGE 10

DATUM = 165

OFFSET	-5.000	-4.288 -3.244	0.719	2.056 3.374 5.000
ELEVATION	166.305 166.321 166.275	166.402	165.648 165.518	165.472

CHAINAGE 80

DATUM = 183

OFFSET	-5.000	-3.033 -3.029 -2.035 -1.033	3.405 4.327 5.000	
ELEVATION	184.356	184.302 184.302 184.247 184.189	183.851 183.788 183.778	

CHAINAGE 0

DATUM = 164

OFFSET	-5.000	-1.264	4.676 5.000	
ELEVATION	164.777	164.500	165.074 165.074	

CHAINAGE 70

DATUM = 180

OFFSET	-5.000	-3.254 -2.543	1.533 2.327	4.163 5.000
ELEVATION	180.963	180.821 180.907	180.866 180.791	180.644 180.575

FOOTPATH 3

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 GOTO 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 MIS 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/SHEMBE/904	TYPICAL DRY STACK RETAINING WALL DETAILS
631/SHEMBE/903-2	TYPICAL DETAILS SHEET 2
631/SHEMBE/903-1	TYPICAL DETAILS SHEET 1
631/SHEMBE/902-3	ROAD 1 CROSS SECTIONS
631/SHEMBE/902-2	FOOTPATH 4 & 5 CROSS SECTIONS
631/SHEMBE/902-1	FOOTPATH 1,2 & 3 CROSS SECTIONS
631/SHEMBE/901-3	ROAD 1 LONGITUDINAL SECTION
631/SHEMBE/901-2	FOOTPATH 3,4 & 5 LONGITUDINAL SECTION
631/SHEMBE/901-1	FOOTPATH 1 & 2 LONGITUDINAL SECTION
631/SHEMBE/900	FOOTPATHS AND ROAD LAYOUT AND SETTING OUT COORDINATES

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: SHEMBE EKUPHAKAMENI WARD 55

DETAILS

FOOTPATHS 1,2 & 3 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-36930

DRAWING No. 631/SHEMBE/902-1 REV. T1