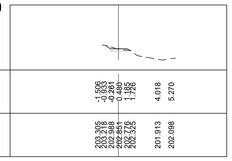
CHAINAGE 30

H.SCALE 1:200

V.SCALE 1:200
DATUM = 201

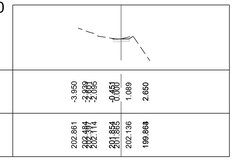


OFFSET	-1.506	-0.353	-0.489	1.758	4.018	5.270
ELEVATION	203.305	203.218	202.851	202.525	201.913	202.098

CHAINAGE 60

H.SCALE 1:200

V.SCALE 1:200
DATUM = 199

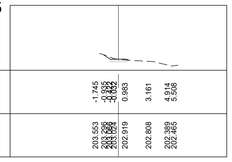


OFFSET	-3.950	-2.892	-2.092	-0.451	1.089	2.650
ELEVATION	202.861	202.484	202.114	201.854	202.136	199.864

CHAINAGE 25

H.SCALE 1:200

V.SCALE 1:200
DATUM = 202

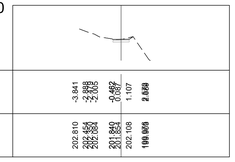


OFFSET	-1.745	-0.822	-0.326	0.983	3.161	4.914	5.508
ELEVATION	203.553	203.226	202.926	202.919	202.808	202.389	202.465

CHAINAGE 60

H.SCALE 1:200

V.SCALE 1:200
DATUM = 199

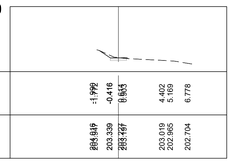


OFFSET	-3.841	-2.888	-2.008	-0.492	1.107	2.678
ELEVATION	202.810	202.454	202.084	201.842	202.108	199.906

CHAINAGE 20

H.SCALE 1:200

V.SCALE 1:200
DATUM = 202

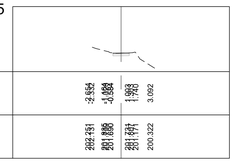


OFFSET	-1.992	-0.416	0.645	4.402	5.169	6.778
ELEVATION	204.849	203.339	203.147	203.019	202.865	202.704

CHAINAGE 55

H.SCALE 1:200

V.SCALE 1:200
DATUM = 200

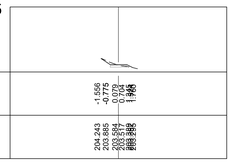


OFFSET	-3.564	-2.584	-0.984	1.993	1.740	3.092
ELEVATION	202.261	201.886	201.636	201.671	201.171	200.322

CHAINAGE 15

H.SCALE 1:200

V.SCALE 1:200
DATUM = 203

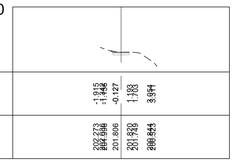


OFFSET	-1.556	-0.775	0.079	1.464	1.464
ELEVATION	204.243	203.885	203.917	203.388	203.388

CHAINAGE 50

H.SCALE 1:200

V.SCALE 1:200
DATUM = 200

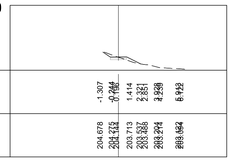


OFFSET	-1.915	-1.147	-0.127	1.133	3.014
ELEVATION	202.723	202.323	201.806	201.929	200.914

CHAINAGE 10

H.SCALE 1:200

V.SCALE 1:200
DATUM = 203

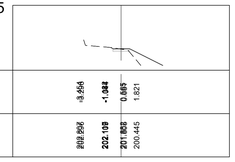


OFFSET	-1.307	-0.744	0.164	1.414	2.851	4.939
ELEVATION	204.678	204.124	203.713	203.388	203.274	203.452

CHAINAGE 45

H.SCALE 1:200

V.SCALE 1:200
DATUM = 200

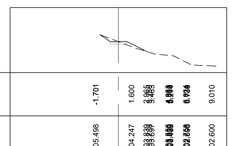


OFFSET	-3.994	-1.044	0.667	1.821
ELEVATION	202.856	202.109	201.808	200.445

CHAINAGE 5

H.SCALE 1:200

V.SCALE 1:200
DATUM = 202



OFFSET	-1.701	1.600	3.284	9.004	9.010
ELEVATION	205.498	204.247	203.839	202.606	202.600

CHAINAGE 40

H.SCALE 1:200

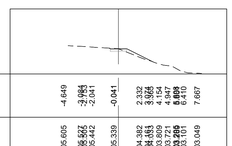
V.SCALE 1:200
DATUM = 200

OFFSET	-5.385	-3.952	-1.924	-0.162
ELEVATION	202.724	202.541	202.493	201.962

CHAINAGE 0

H.SCALE 1:200

V.SCALE 1:200
DATUM = 203

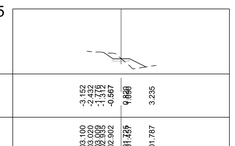


OFFSET	-4.649	-3.084	-2.041	-0.041	2.332	3.924	4.154	7.687
ELEVATION	205.605	205.527	205.442	205.339	204.382	203.809	203.777	203.049

CHAINAGE 35

H.SCALE 1:200

V.SCALE 1:200
DATUM = 201



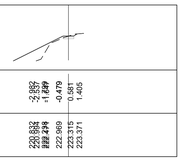
OFFSET	-3.152	-1.472	-0.567	0.660	3.235
ELEVATION	203.100	202.629	202.902	201.729	201.787

FOOTPATH 1 - Ch. 0 to 60

CHAINAGE 30

H.SCALE 1:200

V.SCALE 1:200
DATUM = 220

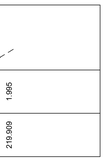


OFFSET	-2.892	-1.649	-1.249	-0.479	0.581	1.465
ELEVATION	220.832	222.474	222.969	223.315	223.371

CHAINAGE 65

H.SCALE 1:200

V.SCALE 1:200
DATUM = 218



OFFSET	-1.788	0.179	1.995
ELEVATION	218.998	219.072	219.909

CHAINAGE 100

H.SCALE 1:200

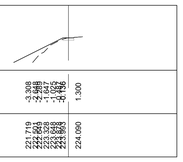
V.SCALE 1:200
DATUM = 216

OFFSET	-2.169	-1.361	0.692	1.383	1.383
ELEVATION	216.845	216.837	216.513	216.513	216.750

CHAINAGE 25

H.SCALE 1:200

V.SCALE 1:200
DATUM = 221

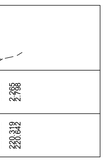


OFFSET	-3.988	-2.388	-1.647	-0.476	0.176	1.300
ELEVATION	222.719	222.201	222.028	221.908	221.908	224.080

CHAINAGE 60

H.SCALE 1:200

V.SCALE 1:200
DATUM = 219



OFFSET	-0.363	0.875	2.765
ELEVATION	219.055	220.032	220.342

CHAINAGE 95

H.SCALE 1:200

V.SCALE 1:200
DATUM = 216

OFFSET	-1.643	-0.773	0.148	1.899	1.899
ELEVATION	217.414	216.955	216.152	216.064	216.064

CHAINAGE 125

H.SCALE 1:200

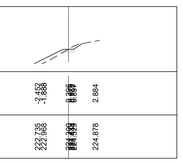
V.SCALE 1:200
DATUM = 217

OFFSET	-3.005	-1.956	0.238	1.899	3.082	5.747	6.864
ELEVATION	217.195	217.505	217.063	216.064	216.514	219.575	219.660

CHAINAGE 20

H.SCALE 1:200

V.SCALE 1:200
DATUM = 222

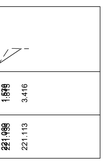


OFFSET	-2.452	-1.688	0.286	0.286	2.884
ELEVATION	222.735	223.668	224.499	224.499	224.878

CHAINAGE 55

H.SCALE 1:200

V.SCALE 1:200
DATUM = 219



OFFSET	0.651	1.898	3.416
ELEVATION	219.747	221.198	221.113

CHAINAGE 90

H.SCALE 1:200

V.SCALE 1:200
DATUM = 216

OFFSET	-8.611	-1.766	-0.306	0.286	2.176
ELEVATION	216.085	217.326	217.173	218.873	219.480

CHAINAGE 125

H.SCALE 1:200

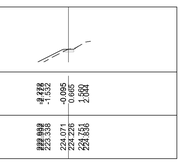
V.SCALE 1:200
DATUM = 217

OFFSET	-3.202	-0.543	0.238	1.472	4.669	6.487
ELEVATION	217.245	217.708	217.663	217.551	219.510	219.647

CHAINAGE 15

H.SCALE 1:200

V.SCALE 1:200
DATUM = 222



OFFSET	-0.878	-0.095	0.665	2.584
ELEVATION	223.883	224.071	224.226	224.836

CHAINAGE 50

H.SCALE 1:200

V.SCALE 1:200
DATUM = 219

OFFSET	1.192	1.192	2.895
ELEVATION	220.184	220.586	220.886

CHAINAGE 85

H.SCALE 1:200

V.SCALE 1:200
DATUM = 216

OFFSET	-2.569	-1.639	-0.595	0.115	1.482	2.718
ELEVATION	216.959	217.172	218.014	218.539	218.700	218.653

CHAINAGE 120

H.SCALE 1:200

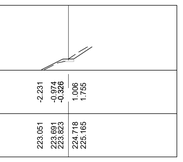
V.SCALE 1:200
DATUM = 217

OFFSET	-3.526	-1.978	-0.899	0.077	1.035	2.661
ELEVATION	218.392	217.708	218.404	219.046	219.289	219.403

CHAINAGE 10

H.SCALE 1:200

V.SCALE 1:200
DATUM = 223



OFFSET	-2.231	-0.674	-0.326	1.006	1.755
ELEVATION	223.061	223.661	223.923	224.718	225.165

CHAINAGE 45

H.SCALE 1:200

V.SCALE 1:200
DATUM = 220

OFFSET	0.238	1.192	2.942
ELEVATION	220.323	220.586	221.999

CHAINAGE 80

H.SCALE 1:200

V.SCALE 1:200
DATUM = 216

OFFSET	-3.236	-1.664	-0.595	0.238	1.430	2.041
ELEVATION	216.294	216.941	217.172	217.230	218.030	219.162

CHAINAGE 115

H.SCALE 1:200

V.SCALE 1:200
DATUM = 216

OFFSET	-10.000	-5.726	-3.158	-1.930	-0.841	0.795	2.992
ELEVATION	216.076	216.620	216.904	217.230	218.041	219.107	219.650

CHAINAGE 5

H.SCALE 1:200

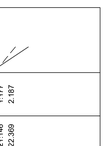
V.SCALE 1:200
DATUM = 223

OFFSET	-1.796	1.997
ELEVATION	223.132	225.504

CHAINAGE 40

H.SCALE 1:200

V.SCALE 1:200
DATUM = 220



OFFSET	0.052	0.973	2.187
ELEVATION	220.435	221.172	222.369

CHAINAGE 75

H.SCALE 1:200

V.SCALE 1:200
DATUM = 215

OFFSET	-3.707	-1.988	-0.841	0.863	2.381
ELEVATION	215.920	217.124	217.973	218.533	218.850

CHAINAGE 110

H.SCALE 1:200

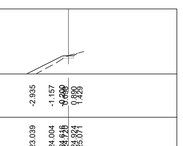
V.SCALE 1:200
DATUM = 215

OFFSET	-10.000	-2.701	-1.930	-0.281	1.472	2.655	7.518
ELEVATION	215.907	218.533	219.008	219.973	219.839	219.914

CHAINAGE 0

H.SCALE 1:200

V.SCALE 1:200
DATUM = 223

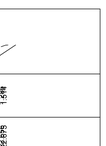


OFFSET	-2.935	-1.157	0.286	1.930
ELEVATION	223.039	224.004	224.946	225.571

CHAINAGE 35

H.SCALE 1:200

V.SCALE 1:200
DATUM = 220



OFFSET	-1.478	-0.141	0.544	1.944
ELEVATION	220.445	220.938	222.235	222.895

CHAINAGE 70

H.SCALE 1:200

V.SCALE 1:200
DATUM = 217

OFFSET	-2.432	-1.162	-0.238	0.286	2.663
ELEVATION	217.677	218.411	218.888	218.873	219.343

CHAINAGE 105

H.SCALE 1:200

V.SCALE 1:200
DATUM = 216

OFFSET	-10.000	-7.602	-2.662	-1.478	-0.047	1.035	1.944
ELEVATION	216.113	216.916	217.443	218.348	218.873	219.046	219.944

FOOTPATH 2 - Ch. 0 to 125

FOR TENDER

NOTES

GENERAL :

1. PROVE ALL SERVICES PRIOR TO CONSTRUCTION.
2. ALL LEVELS AND DIMENSIONS 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 CITY OF DURBAN SPECIFICATIONS AND SANS 1200.
9. THE ENGINEER REQUIRES 24 HOURS NOTICE FOR ALL INSPECTIONS.

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.

FREQUENCY OF TESTS :

1. CBR TESTS 1 PER 300m^2.
2. COMPACTION TESTS 1 PER 200m^2 NOTE : COMPACTION TESTS WILL BE REQUIRED FOR EACH OF THE VARYING LAYER THAT IS 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.

ROADS AND FOOTPATHS :

1. ALL LEVELS, DIMENSIONS AND SETTING OUT DETAILS TO BE VERIFIED BY CONSULTANT AND CONTRACTORS ON SITE PRIOR TO CONSTRUCTION.
2. THE POSITIONS OF ACCESSES ARE TO BE DETERMINED IN CONSULTATION WITH THE LOCAL COMMUNITY. DAYLIGHT REQUIREMENTS ARE TO BE DECIDED BY THE ENGINEER ON SITE. CONCRETE WEDGES ACCORDING TO CIVIL ENGINEERS DETAILS AND SPECIFICATIONS MAY BE USED IN PLACE OF SURFACED BELL-MOUTHS FOR ACCESSES SERVING SINGLE RESIDENTIAL PROPERTIES.
7. EXISTING ROAD SIGNS, SERVICES AND FENCING AFFECTED BY CONSTRUCTION ARE TO BE REMOVED/RELOCATED ON INSTRUCTION BY THE CIVIL ENGINEER.
8. UNDERGROUND SERVICE CROSSINGS AND MARKERS ARE TO BE ACCORDING TO CIVIL ENGINEERS DETAILS AND SPECIFICATIONS.
9. ALL NEW ROAD SIGNS AND ROAD MARKING REQUIREMENTS ARE TO CONFORM TO THE SOUTHERN AFRICAN DEVELOPMENT COMMUNITY ROAD TRAFFIC SIGNS MANUAL (SADC - RTSM).
10. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH "COLTO SPECIFICATIONS FOR ROAD AND BRIDGE WORKS FOR STATE ROAD AUTHORITIES".
11. NEW FILLS AND EXPOSED CUTS ARE TO BE TOP-SOILED AND VEGETATED IMMEDIATELY AFTER CONSTRUCTION TO PREVENT EROSION.

STORMWATER :

1. ALL STORMWATER PIPES ARE CLASS 100D CONCRETE AND HD CL 34 uPVC PIPES.
2. ALL STORMWATER CONCRETE PIPES TO COMPLY WITH SANS 677 STANDARDS.
3. ALL uPVC PIPES TO COMPLY WITH SANS 966 STANDARDS.
4. ALL JOINTS TO BE "SPIGOT AND SOCKET" TYPE.
5. ALL STORMWATER PIPES TO BE LAID ON CLASS B BEDDING.
6. ALL EXISTING DRAINAGE CULVERTS ARE TO BE INSPECTED, AND ANY FOUND IN UNSERVICEABLE CONDITION ARE TO BE REPLACED ON INSTRUCTION BY THE CIVIL ENGINEER.
7. CULVERT INVERTS ARE TO BE DECIDED BY CIVIL ENGINEER ON SITE UNLESS SHOWN OTHERWISE. MIN. COVER = 600mm, MIN. SLOPE = 2%.

SCALE (mm)

No.	REFERENCE DRAWINGS

REV	DESCRIPTION	BY	DATE
P1	FOR TENDER	A.D.	2024.03.22

Professional person XX Registration XX

CLIENT

ETHEKWINI MUNICIPALITY

PROJECT

eTHEKWINI: PROVISION OF INCREMENTAL SERVICES TO INFORMAL SETTLEMENTS: MSHAYAZAFE WARD 55

DETAILS

FOOTPATHS CROSS SECTIONS

MAP AFRICA CONSULTING

SUITE ESS106 STRATHMORE PARK, 305 MUSGRAVE ROAD, MUSGRAVE, DURBAN
FAX (031) e-mail : admin@mapafrica.co.za
website : www.mapafrica.co.za
FAX (031) 3092929 TEL. (031) 3095831

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DRAWN	A.D		AS SHOWN
APPROVED	L.S	PL	DATE 2024.03.22

CONTRACT No. 4V-28988

DRAWING No. 557/MSHA/902-2 REV P1