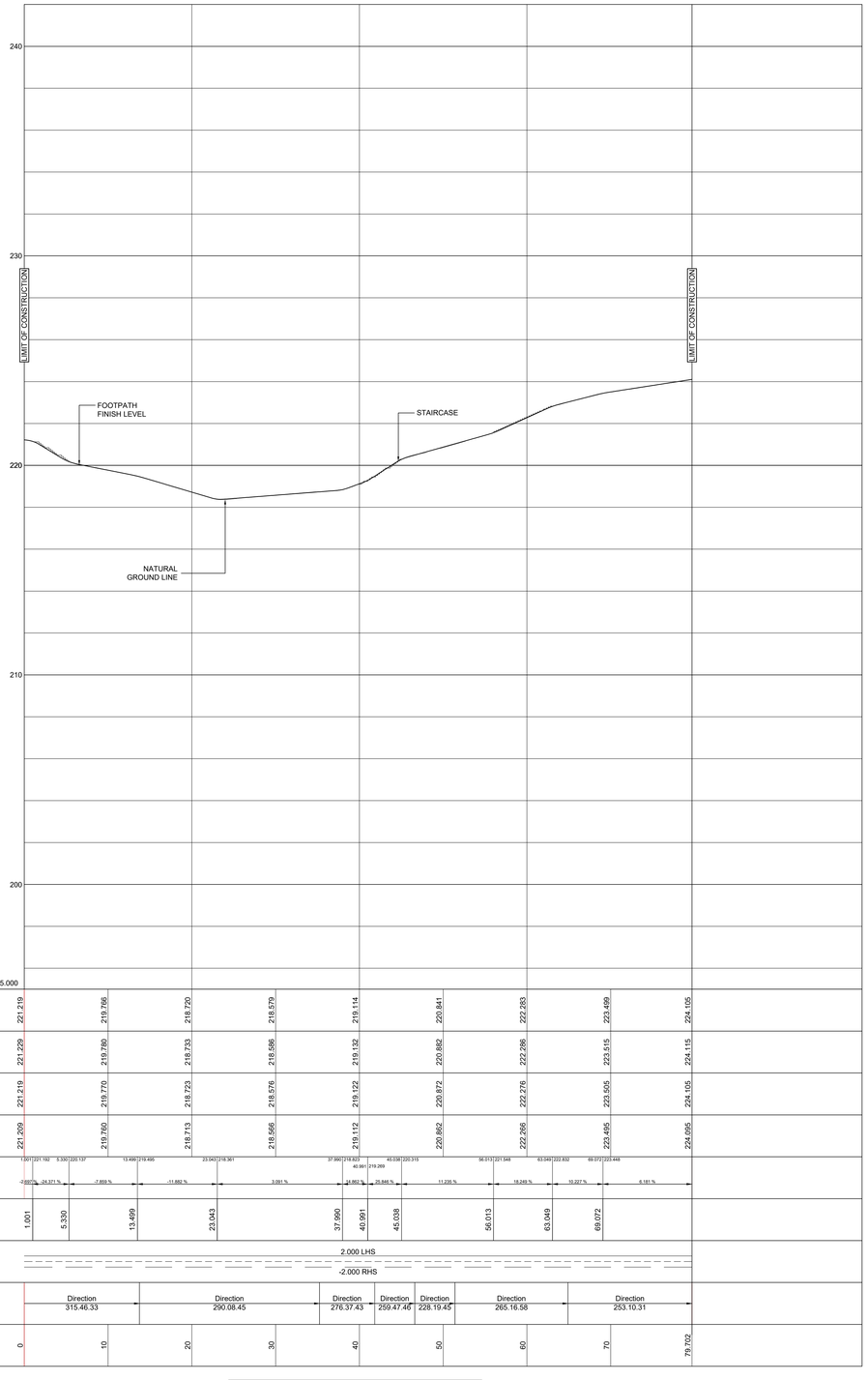
KEY

NGL

FOOTPATH

STAIRCASE



Datum 195.000

C/L/ Peg Levels		221.219	219.766	218.720	218.579	219.114	220.841	222.283	223.499	224.105
Vertical Alignment / Design Road Levels	Left Edge	221.229	219.780	218.733	218.586	219.132	220.882	222.286	223.515	224.115
	Centre Line	221.219	219.770	218.723	218.576	219.122	220.872	222.276	223.505	224.105
	Right Edge	221.209	219.760	218.713	218.566	219.112	220.862	222.266	223.495	224.095
	Grades	1.001|221.192	5.330|220.137	13.499|219.495	23.043|218.361	37.990|218.823	40.991 219.269 45.038|220.310	56.013|221.548	63.049|222.832	69.072|222.448
		-2.695 %	-24.371 %	-7.859 %	-11.682 %	3.091 %	24.862 %	25.846 %	11.235 %	18.248 %	10.227 %	6.181 %
	Vertical Curves	1.001	5.330	13.499	23.043	37.990	40.991	45.038	56.013	63.049	69.072	
Superelevation		2.000 LHS								
		-2.000 RHS								
Horizontal Curves		Direction 315.46.33		Direction 290.08.45		Direction 276.37.43	Direction 259.47.46	Direction 228.19.45	Direction 265.16.58	Direction 253.10.31
Chainages		0	10	20	30	40	50	60	70	79.702

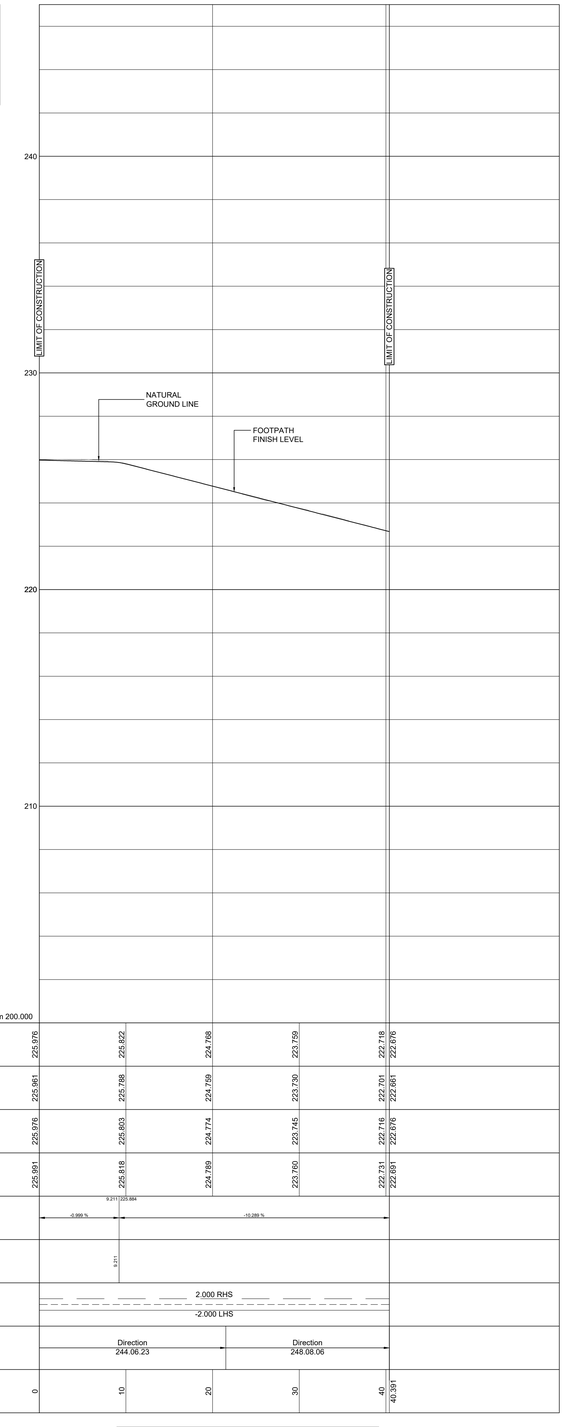
FOOTPATH 1 : CH0 TO CH 79.702

KEY

NGL

FOOTPATH

STAIRCASE



Datum 200.000

C/L/ Peg Levels		225.976	225.822	224.768	223.759	222.718	222.676
Vertical Alignment / Design Road Levels	Left Edge	225.961	225.788	224.759	223.730	222.701	222.661
	Centre Line	225.976	225.803	224.774	223.745	222.716	222.676
	Right Edge	225.991	225.818	224.789	223.760	222.731	222.691
	Grades	9.211|223.884				
		-0.999 %	-10.289 %				
	Vertical Curves	9.211					
Superelevation		2.000 RHS					
		-2.000 LHS					
Horizontal Curves		Direction 244.06.23		Direction 248.08.06			
Chainages		0	10	20	30	40	40.391

FOOTPATH 2 : CH0 TO CH 40.391

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 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:
i 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/RICH/904	TYPICAL DRY STACK RETAINING WALLS
631/RICH/903	TYPICAL DETAILS
631/RICH/902-3	ROADS CROSS SECTIONS
631/RICH/902-2	ROADS CROSS SECTIONS
631/RICH/902-1	FOOTPATHS CROSS SECTIONS
631/RICH/901-3	ROADS LONG SECTIONS
631/RICH/901-2	ROADS LONG SECTIONS
631/RICH/900	ROADS & FOOTPATHS LAYOUT & DETAILS

REV	DESCRIPTION	BY	DATE
T1	ISSUED FOR TENDER	Y.R.	11/02/2026

Professional person : L Singh — Registration : 201370301

CLIENT

ETHEKWINI MUNICIPALITY

PROJECT

eTHEKWINI: PROVISION OF INCREMENTAL SERVICES TO INFORMAL SETTLEMENTS: RICHMOND FARM B

DETAILS

FOOTPATHS 1 & 2
LONGITUDINAL SECTION

MAP AFRICA CONSULTING

SABS ISO 9001 — CESA

SUITE GR01A,GROUND FLOOR BUSINESS PARTNERS CENTRE, 23 JAN HOFMEYR ROAD, WESTVILLE
e-mail : admin@mapafrica.co.za
website : www.mapafrica.co.za
FAX (031) 3092929 TEL. (031) 3095831

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DRAWN	Y.R.		
APPROVED	L.S	PL	DATE 11/02/2026

CONTRACT No. 4V-34029

DRAWING No. 631/RICH/901-1 REV T1