



SETTING OUT DATA ACCESS ROAD D1				
CH	Y	X	DETAILS	
0.000	10222.318	3318684.046	L 13.206m	
BC01	13.206	10209.381	3318681.390	R 50.000m DA 91°19'30"
PI1	10206.682	3318680.835	TL 2.756m AL 5.506m	
ECC1	18.713	10203.837	3318680.581	
27.881	10194.808	3318678.735	L 9.169m	
BC02	27.881	10194.808	3318679.735	R 22.760m DA 25°32'10"
PI2	10189.672	3318679.260	TL 9.158m AL 10.144m	
ECC2	38.028	10184.833	3318681.044	
42.299	10180.823	3318682.523	L 4.273m	
BC03	42.299	10180.823	3318682.523	R 20.078m DA 11°03'40"
PI3	10178.999	3318683.196	TL 1.944m AL 3.876m	
ECC3	46.175	10177.080	3318683.506	
81.973	10141.741	3318689.220	L 35.768m	
BC04	81.973	10141.741	3318689.220	R 37.864m DA 13°36'00"
PI4	10137.284	3318689.940	TL 4.515m AL 8.988m	
ECC4	90.961	10132.782	3318689.593	
99.898	10124.071	3318688.920	L 8.737m	
BC05	99.898	10124.071	3318688.920	R 20.078m DA 48°59'50"
PI5	10114.849	3318688.215	TL 9.150m AL 17.170m	
ECC5	116.888	10108.432	3318684.638	
130.417	10098.782	3318704.148	L 13.549m	

SETTLEMENT - UMLAZI U-UX2 FOOTPATH 1 CO-ORDINATE TABLE			
CHAINAGE	Y	X	
0.00	-3318686.977	-10145.274	
10.00	-3318677.883	-10146.432	
19.677 (CD)	-3318669.082	-10153.457	
20.00	-3318668.744	-10153.462	
29.145 (CD)	-3318659.666	-10154.447	
30.00	-3318659.274	-10153.635	
40.00	-3318654.925	-10144.630	
50.00	-3318650.575	-10135.628	
51.427 (CD)	-3318649.975	-10134.382	
59.163 (CD)	-3318642.326	-10133.233	
60.00	-3318641.721	-10132.433	

CONTROL POINTS			
CODE	Y	X	ELEVATION
UX201	10073.649	3318670.795	30.579
UX202	10099.462	3318708.204	33.539
UX203	10148.572	3318786.245	35.742

- GENERAL NOTES
 - NO SCALING-OFF IS PERMITTED. ONLY WRITTEN DIMENSIONS MAY BE DEEMED CORRECT. ALL DIMENSIONS ARE IN M UNLESS OTHERWISE STATED.
 - ALL WORK TO COMPLY WITH THE LATEST EDITION OF THE SANS 1200 SPECIFICATIONS AND ETHEKWINI SPECIFICATIONS.
 - ALL CUT SLOPES TO BE SHAPED TO 1:1.5 AND FILL SLOPES TO 1:2 UNLESS OTHERWISE DIRECTED BY THE ENGINEER ON SITE.
 - FILL MATERIAL TO BE COMPACTED IN LAYERS OF MAX. 100mm TO 150mm ASHTO. STEPS TO BE FORMED PRIOR TO FILLING. HEIGHT OF STEPS TO BE APPROXIMATELY 300mm LIFTS.
 - COMPACTION TESTING TO BE DONE AS FOLLOWS:
 - 1 TEST PER LAYER FOR EACH 25m LENGTH OF FOOTPATH
 - BOLLARDS TO BE CONSTRUCTED ONLY WHEN INSTRUCTED BY THE ENGINEER.
 - WHERE THE COVER LEVELS OF THE EXISTING MANHOLES LOCATED IN THE ALIGNMENT OF NEW FOOTPATHS IS HIGHER THAN THE FINISHED DESIGN LEVEL OF THE FOOTPATH, MANHOLE RINGS ARE TO BE CUT SUCH THAT THE NEW MANHOLE COVER LEVEL IS CONSISTENT WITH THE LEVEL AND SLOPE OF THE FOOTPATH. EXISTING MANHOLE LIGHT DUTY COVERS AND FRAME ARE TO BE REPLACED WITH HEAVY DUTY COVERS AND FRAME. EXPOSED REINFORCING MUST BE PAINTED WITH Sika TOP AMATEC 110 EC OR SIMILAR APPROVED.
 - FOR ALL DETAILS REFER TO STANDARD DRAWING 7484 (SHEET 1 TO 3).
 - NEW DRY STACK RETAINING WALL POSITIONS AND HEIGHT WILL BE FINALISED ON SITE.
- CONCRETE
 - CONCRETE WORKS TO COMPLY WITH SANS1200 SECTION G AND SANS 0100 PART 2 AND ETHEKWINI SPECIFICATIONS PART C.
 - THE FREQUENCY OF CONCRETE WORKS TESTING MUST BE DONE AS FOLLOWS:
 - AT LEAST ONE SET (3 NO. CUBES) OF SAMPLES FOR EVERY 50m³ OF CONCRETE PLACED/VERY BATCH
 - AT LEAST ONE SET OF SAMPLES SHALL BE TAKEN FROM EACH DAY CASTING
 - TESTING MUST BE CARRIED OUT IN ACCORDANCE TO SANS METHOD 861 AND TESTED BY AN APPROVED LABORATORY
 - RESULTS TO BE SUBMITTED TO THE ENGINEER
 - ON THE BASIS OF IMPORTANCE, WHERE DIRECTED BY THE ENGINEER, A SET OF SAMPLES MAY BE REQUESTED.
 - UNLESS OTHERWISE ADVISED, NO SAMPLE SHALL BE TAKEN OF ANY CONCRETE UNTIL AT LEAST 1m³ OF SUCH CONCRETE HAS BEEN MIXED AND DISCHARGED FOR THE FOOTPATHS
 - CURING AND PROTECTION SHALL BE ACCORDING TO SANS 0100 1-1980, 5.8.8
 - ALL CONCRETE TO BE PROPERLY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP AT LEAST 7 DAYS AFTER CASTING.
 - CONCRETE POURING WILL ONLY BE DONE UPON THE APPROVAL OF THE SHUTTERING AND FIXING OF THE REINFORCEMENT FOR THE FOOTPATHS/DRAINS.
 - MIN. CONCRETE CUBE STRENGTH AT 28 DAYS:
 - FOOTPATH 20 MPa
 - DRAINS 20 MPa
 - KERB BASE AND HAUNCH 20 MPa
 - STEP CONCRETE BASE 15 MPa
 - RETAINING WALL BASE 25 MPa

ETHEKWINI MUNICIPALITY

ENGINEERING UNIT
DEVELOPMENT ENGINEERING

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

REDUCED PLAN USE SCALE BELOW

70m ON ORIGINAL PLAN

Approved: _____ Date: _____

DESIGN CONSULTANT

bvi CONSULTING ENGINEERS KwaZulu-Natal PTY (Ltd)

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Approved: _____ Date: _____

Rev	Date	Description
T0	04-03-25	ISSUED FOR TENDER
F	23-01-25	ISSUED FOR DETAILED DESIGN
D	14-10-24	ISSUED FOR REVISED COMMUNITY APPROVAL
E	11-09-24	ISSUED FOR PRELIMINARY DESIGN
C	04-09-24	ISSUED FOR COMMUNITY APPROVAL
B	04-09-24	ISSUED FOR CONCEPT REVIEW
A	02-09-24	ISSUED FOR INTERNAL REVIEW

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

Acquisitions completed

DATE: _____

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 conductors. Wherever possible these must be located before work proceeds.

Contract No. 3V-31307

Project Title **PROVISION OF INCREMENTAL SERVICES TO EMLAZI UX-2 (TROPICA) SETTLEMENT, WARD 86**

Drawing Title **FOOTPATH AND ACCESS ROAD LAYOUT**

Scales 1:500 Reference

Checked	P.T	Date	Signature
		04/03/2025	
		04/03/2025	
		04/03/2025	

Senior Manager: Development Engineering (South)

Deputy Head: Development Engineering

Head: Engineering

Drawing No 49410 Sheet 1 of 2 Sheets

ISSUED FOR TENDER