



SETTLEMENT - eMlaza J17		
FOOTPATH 1 CO-ORDINATE TABLE		
CHAINAGE	Y	X
0.00	3313484.475	13355.048
10.00	3313479.044	13363.445
20.00	3313473.613	13371.841
20.494 (CD)	3313473.345	13372.256
26.096 (CD)	3313472.236	13377.747
30.00	3313469.92	13380.89
37.502 (CD)	3313465.47	13386.929
FOOTPATH 2 CO-ORDINATE TABLE		
CHAINAGE	Y	X
0.00	3313462.287	13419.113
10.00	3313456.262	13411.131
16.983 (CD)	3313452.055	13405.558
20.00	3313449.064	13405.165
20.426 (CD)	3313448.642	13405.11
27.550 (CD)	3313441.539	13405.67
30.00	3313439.249	13404.8
30.554 (CD)	3313438.732	13404.603
37.983 (CD)	3313432.947	13399.942
40.00	3313430.955	13399.624
41.850 (CD)	3313429.128	13399.333
48.003 (CD)	3313423.771	13396.306

FOOTPATH 3 CO-ORDINATE TABLE		
CHAINAGE	Y	X
0.00	3313461.636	13446.798
10.00	3313455.688	13438.759
10.825 (CD)	3313455.197	13438.096
15.574 (CD)	3313455.141	13433.347
20.00	3313457.274	13429.47
30.00	3313462.093	13420.708
31.282 (CD)	3313462.711	13419.584
40.00	3313470.714	13416.126
46.906 (CD)	3313477.053	13413.386
50.00	3313478.691	13410.761
59.813 (CD)	3313483.883	13402.435
60.00	3313484.06	13402.498
69.069 (CD)	3313492.599	13405.552
70.00	3313493.419	13405.993
75.702 (CD)	3313498.44	13408.697
80.00	3313502.317	13410.552
90.00	3313511.337	13414.868
98.628 (CD)	3313519.12	13418.592
FOOTPATH 4 CO-ORDINATE TABLE		
CHAINAGE	Y	X
0.00	3313497.292	13472.907
10.00	3313487.337	13473.85
20.00	3313477.381	13474.793
21.307 (CD)	3313476.08	13474.916
30.00	3313468.888	13479.799
35.556 (CD)	3313464.292	13482.92
40.00	3313464.418	13487.362
45.642 (CD)	3313464.578	13493.002
50.00	3313461.808	13496.366
50.189 (CD)	3313461.052	13497.284

- GENERAL NOTES
 - NO SCALING-OFF IS PERMITTED ONLY WRITTEN DIMENSIONS MAY BE DEEMED CORRECT, ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL WORK TO COMPLY WITH THE LATEST EDITION OF THE SANS 1200 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. 150mm TO 93% MOD AASHTO. 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 COVER AND FRAME. EXPOSED REINFORCING MUST BE PAINTED WITH SIKATOP AMATEC 110 EC OR SIMILAR APPROVED.
 - THESE DESIGNS OR DRAWINGS ARE NOT TO BE SOLD AND ARE SUBJECT TO RECALL, REPRODUCTION OR COPYING RIGHTS ARE RESERVED SOLELY BY BVI CONSULTING ENGINEERS UNDER COPYRIGHT LAW. THESE DRAWINGS HAVE BEEN ISSUED AND RECEIVED ON THE FOLLOWING CONDITIONS:
 - THAT THEY ARE NOT USED IN ANY WAY AGAINST THE INTERESTS AND BENEFITS OF BVI
 - THAT THESE DRAWINGS AND ALL COPIES WILL BE RETURNED TO BVI IMMEDIATELY ON DEMAND.
 - THAT ALL INFORMATION DISCLOSED BY THESE DRAWINGS SHALL BE DEEMED TO BE CONFIDENTIAL.
 - FOR ALL DETAILS REFER TO STANDARD DETAIL DRAWING D34729C-104-01-0
 - 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
 - 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.
 - AT LEAST ONE SET OF SAMPLES SHALL BE TAKEN FROM EACH DAY CASTING
 - TESTING MUST BE CARRIED OUT IN ACCORDANCE TO SANS METHOD 961 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 II-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	20 MPa

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

70mm ON ORIGINAL PLAN

DESIGN CONSULTANT: **CESA**
GREEN BUILDING CONSULTANTS

bvi ENGINEERING PROCUREMENT MANAGEMENT
BVI Consulting Engineers KwaZulu-Natal PTY (Ltd)

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Approved: _____ Date: _____

TO	06-02-24	ISSUED FOR TENDER PURPOSES
Revision	Date	Description

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

Acquisitions completed

DATE: _____ ENGINEER: _____

UNDERGROUND SERVICES CHECKED		
SERVICE	DATE	SIGNATURE
S.W DRAINS		
SEWERS		
WATER MAINS		
G.P.D CABLES		
ELECTRIC CABLES		
S.A.R. CABLES		
E.S.C. CABLES		
OIL PIPELINE		

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

Contract No. **3V-28530**

Project Title
PROVISION OF INCREMENTAL SERVICES TO EMLAZA J17, WARD 111

Drawing Title
FOOTPATH LAYOUT

Scales: 1:500 Reference

Checked	Date	Signature
KP	06/02/2024	
Designed	PT	06/02/2024
Drawn by	AD	06/02/2024

Senior Manager: Development Engineering (South)

Deputy Head: Development Engineering

Head: Engineering

Drawing No **49287** Sheet 1 of 3 Sheets

CONTROL POINTS			
CODE	Y	X	ELEVATION
BASE	13278.655	3313520.737	66.316
BM01	13286.750	3313475.088	65.560
BM02	13474.510	3313499.695	58.694
BM03	13547.289	3313577.553	59.394

LEGEND	
	PROPOSED FOOTPATH FOR CONSTRUCTION
	PROPOSED FOOTPATHS FOR FUTURE PHASES
	BOLLARD
	INFORMAL SETTLEMENT BOUNDARY
	EXISTING SURFACE ROAD
	RAILWAY LINES
	RIVERS/STREAM
	EXISTING FOOTPATH
	ABLUTION FACILITIES
	CONTROL POINTS
	CADASTRAL BOUNDARY
	RETAINING WALL
	STORMWATER PIPE
	STORMWATER MANHOLE
	CONCRETE DRAIN
	EXISTING SEWER MANHOLE (Ex SMH)
	EXISTING SEWER PIPE
	EXISTING STORMWATER MANHOLE (Ex SWMH)
	EXISTING STORMWATER PIPE
	EXISTING STORMWATER CHANNEL
	GABION BASKETS

ISSUED FOR TENDER PURPOSES