1. GENERAL NOTES

1.1 NO SCALING-OFF IS PERMITTED ONLY WRITTEN DIMENSIONS MAY BE DEEMED CORRECT. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.

1.2 ALL WORK TO COMPLY WITH THE LATEST EDITION OF THE SANS 1200 SPECIFICATIONS.

1.3 ALL CUT SLOPES TO BE SHAPED TO 1:1.5 AND FILL SLOPES TO 1:2 UNLESS OTHERWISE DIRECTED BY THE ENGINEER ON SITE.

1.4 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.

1.5 COMPACTION TESTING TO BE DONE AS FOLLOWS:
(a) 1 TEST PER LAYER FOR EACH 25m LENGTH OF FOOTPATH

1.6 BOLLARDS TO BE CONSTRUCTED ONLY WHEN INSTRUCTED BY THE ENGINEER.

1.7 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 SIKA TOP AMATEC 110 EC OR SIMILAR APPROVED

1.8 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:
(a) THAT THEY ARE NOT USED IN ANY WAY AGAINST THE INTERESTS AND BENEFITS OF BVI.
(b) THAT THESE DRAWINGS AND ALL COPIES WILL BE RETURNED TO BVI IMMEDIATELY ON DEMAND.
(c) THAT ALL INFORMATION DISCLOSED BY THESE DRAWINGS SHALL BE DEEMED TO BE CONFIDENTIAL.

2. CONCRETE

2.1 CONCRETE WORKS TO COMPLY WITH SANS1200 SECTION G AND SANS 0100 PART 2

2.2 THE FREQUENCY OF CONCRETE WORKS TESTING MUST BE DONE AS FOLLOWS :

(a) AT LEAST ONE SET(3 NO. CUBES) OF SAMPLES FOR EVERY 50m³ OF CONCRETE PLACED.
(b) AT LEAST ONE SET OF SAMPLES SHALL BE TAKEN FROM EACH DAY CASTING.
(c) TESTING MUST BE BE CARRIED OUT IN ACCORDANCE TO SANS METHOD 861 AND TESTED BY AN APPROVED LABORATORY RESULTS TO BE BE SUBMITTED TO THE ENGINEER.
(d) ON THE BASIS IF IMPORTANCE, WHERE DIRECTED BY THE ENGINEER, A SET OF SAMPLES MAY BE REQUESTED.
(e) 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

2.3 CURING AND PROTECTION SHALL BE ACCORDING TO SANS 0100 S-1995, 5.8.8

2.4 ALL CONCRETE TO BE PROPERLY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP. AT LEAST 7 DAYS AFTER CASTING.

2.5 CONCRETE POURING WILL ONLY BE DONE UPON THE APPROVAL OF THE SHUTTERING AND FIXING OF THE REINFORCEMENT FOR THE FOOTPATHS/DRAINS

2.6 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

SETTLEMENT - UMLAZI BB868		
FP 1 CO-ORDINATE TABLE		
CHAINAGE	Y	X
0.00	14435.054	3317314.564
7.669 (CD)	14431.506	3317307.765
14.743 (CD)	14425.313	3317304.347
20.00	14421.887	3317300.360
32.365 (CD)	14413.829	3317290.980
40.00	14406.913	3317287.745
46.398	14401.118	3317285.034

SETTLEMENT - UMLAZI BB868		
FP 2 CO-ORDINATE TABLE		
CHAINAGE	Y	X
0.00	14281.132	3317441.610
16.034 (CD)	14293.759	3317451.493
20.00	14296.179	3317454.635
24.585 (CD)	14298.978	3317458.267
35.146 (CD)	14295.152	3317468.111
40.00	14299.170	3317470.834
45.691 (CD)	14303.881	3317474.027
60.00	14318.036	3317471.932
69.391	14327.325	3317470.556

SETTLEMENT - UMLAZI BB868		
FP 3 CO-ORDINATE TABLE		
CHAINAGE	Y	X
0.00	14501.804	3317435.176
8.599 (CD)	14503.522	3317443.601
20.00	14513.093	3317449.797
38.353 (CD)	14528.499	3317459.770
40.00	14528.575	3317461.416
49.114 (CD)	14528.991	3317470.520
60.00	14532.976	3317480.650
66.378 (CD)	14535.311	3317486.586
80.00	14537.645	3317500.006
95.385	14540.280	3317515.163

SETTLEMENT - UMLAZI BB868		
FP 4 CO-ORDINATE TABLE		
CHAINAGE	Y	X
0.00	14443.159	3317336.691
15.927 (CD)	14458.916	3317334.371
20.00	14462.326	3317332.143
23.367 (CD)	14465.145	3317330.302
32.097 (CD)	14472.922	3317326.335
39.604	14479.817	3317323.367

LEGEND	
	PROPOSED FOOTPATH FOR CONSTRUCTION
	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

NOTES:
1. FOR ALL DETAILS REFER TO STANDARD DETAIL DRAWING D34729C-104-01-0
2. NEW DRY STACK RETAINING WALL POSITIONS AND HEIGHT WILL BE FINALISED ON SITE.

TENDER PURPOSES ONLY

ETHEKWINI MUNICIPALITY

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

REDUCED PLAN USE SCALE BELOW

0 10 20 30 40 50 60 70

70mm ON ORIGINAL PLAN

DESIGN CONSULTANT

BVi Consulting Engineers KwaZulu-Natal PTY (Ltd)
Registration no. 1998/000535/07

ENGINEERING PROCUREMENT MANAGEMENT

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Approved | Reg. No. | Date

Revision	Date	Description
T0	24-05-23	ISSUED FOR TENDER APPROVAL
0	08.05.2023	ISSUED FOR CONSTRUCTION

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

Acquisitions completed

DATE | Engineer

NORTH POINT

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

Contract No.
3V-24835

Project Title
PROVISION OF INCREMENTAL SERVICES TO SETTLEMENT UMLAZI BB868

Drawing Title
FOOTPATH LAYOUT

Scales	Reference
AS SHOWN	

Designed	Date
P.T	08.05.2023
Checked	Drawn by
K.P	A.D

Senior Manager: Development Engineering (South)

Deputy Head: Development Engineering

Head : Engineering

Drawing No 49248-001 | Sheet 1 of 2 Sheet

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