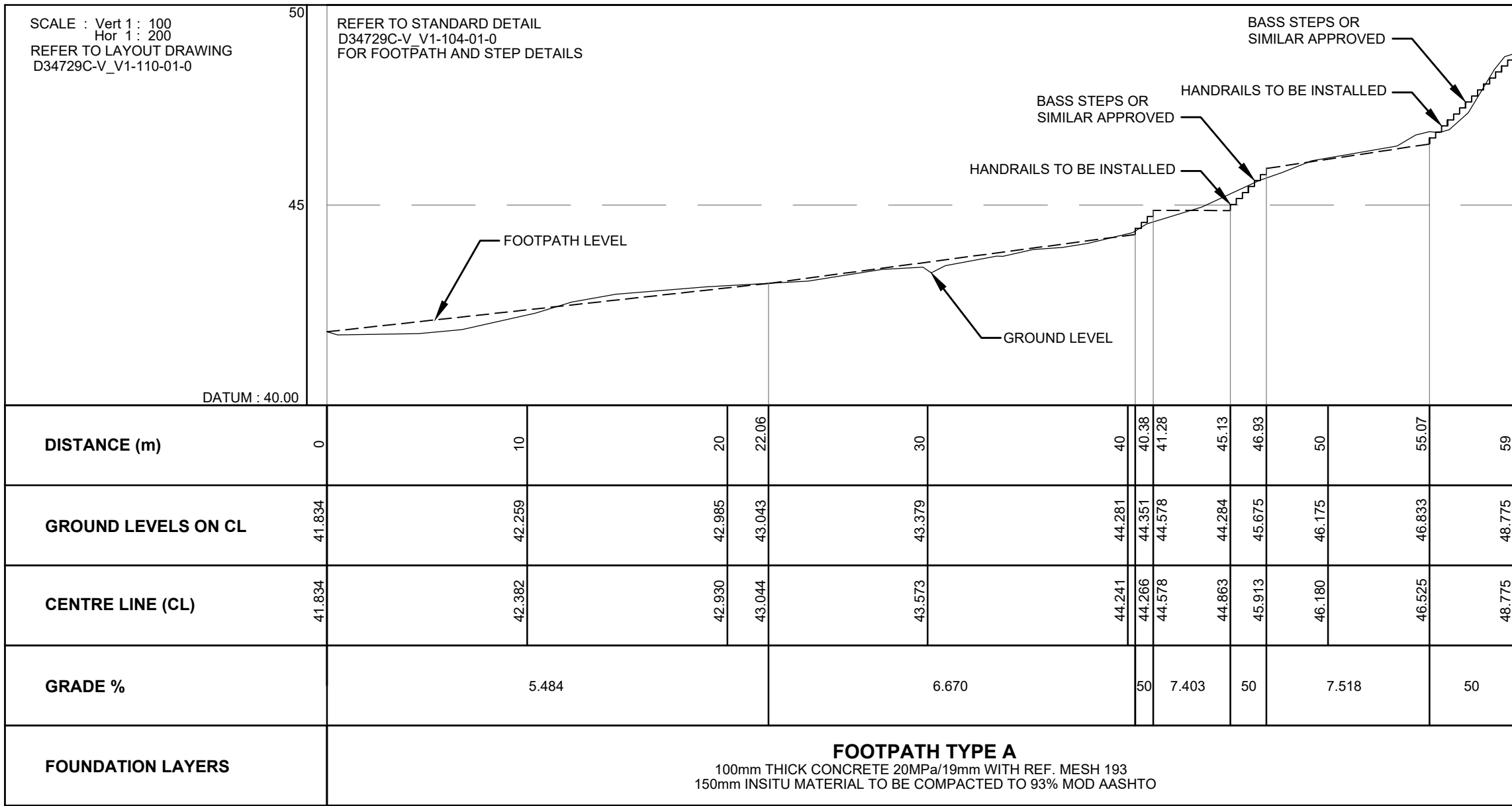


SETTLEMENT - V AND V1		
FP 1 CO-ORDINATE TABLE		
CHAINAGE	Y	X
0.00	7744.259	3315378.884
14.425 (CD)	7736.126	3315390.797
20.00	7737.305	3315396.246
26.780 (CD)	7738.740	3315402.873
29.923 (CD)	7736.778	3315405.328
33.740 (CD)	7736.800	3315409.145
40.00	7733.473	3315414.448
40.943 (CD)	7732.972	3315415.247
49.499 (CD)	7729.046	3315422.848
54.387 (CD)	7727.040	3315427.305
59.724	7722.383	3315428.791

LEGEND	
	PROPOSED FOOTPATH FOR CONSTRUCTION
	FIGURE 12 KERB
	INFORMAL SETTLEMENT BOUNDARY
	CONTROL POINTS
	CADASTRAL BOUNDARY
	ABLUTION FACILITIES
	EXISTING SURFACE ROAD
	EXISTING FOOTPATH
	EXISTING RETAINING WALL
	EXISTING SEWER MANHOLE (Ex SMH)
	EXISTING SEWER PIPE
	EXISTING STORMWATER MANHOLE (Ex SWMH)
	EXISTING STORMWATER PIPE
	EXISTING HEADWALL
	STORMWATER PIPE
	STORMWATER MANHOLE
	600mm CONCRETE DRAIN
	FUTURE WORKS
	RENO MATTRESS

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 SIKATOP AMATEC 110 EG 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 50m ³ 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 1m ³ OF SUCH CONCRETE HAS BEEN MIXED AND DISCHARGED FOR THE FOOTPATHS		
2.3 CURING AND PROTECTION SHALL BE ACCORDING TO SANS 0100 II-1980, 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		



TENDER PURPOSES ONLY

 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 bvi Consulting Engineers KwaZulu-Natal PTY (Ltd) Visit or contact us online at www.bvieng.co.za PROVINCE OFFICE Durban +27 31 266 8362 E-MAIL info@bvi.co.za		
Approved	Eng. No.	Date
TO	24-05-23	ISSUED FOR TENDER APPROVAL
0	24-04-23	ISSUED FOR CONSTRUCTION
Revision	Date	Description
NOTE: No construction work to commence until land and servitude acquisitions have been completed Acquisitions completed		 NORTH POINT
DATE: _____ ENGINEER: _____		
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. Whenever possible these must be located before work proceeds.		
Contract No. 3V - 24851		
Project Title PROVISION OF INCREMENTAL SERVICES TO SETTLEMENT UMLAZI		
Drawing Title AREA : V_V1 FOOTPATH LONG SECTIONS		
Scales 1 : 500		Reference
Checked KP	Date 24/04/2023	Signature
Designed PT		
Drawn by AN		
Senior Manager: Development Engineering (South)		
Deputy Head: Development Engineering		
Head : Engineering		
Drawing No 49252-002	Sheet 1	of 1 Sheets