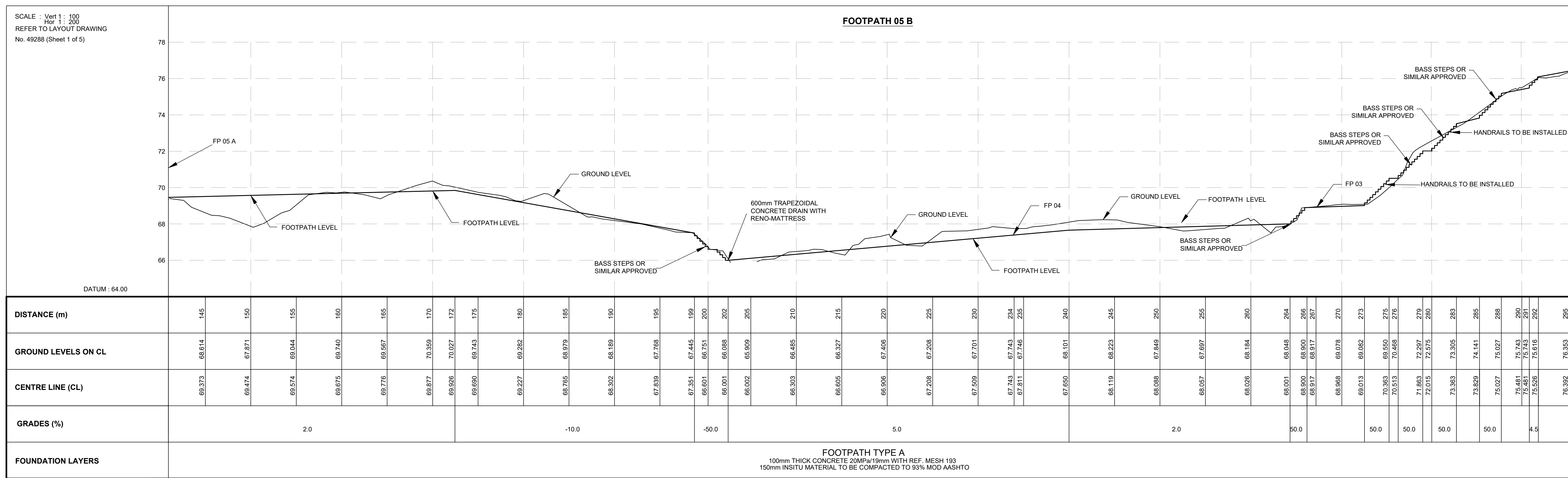
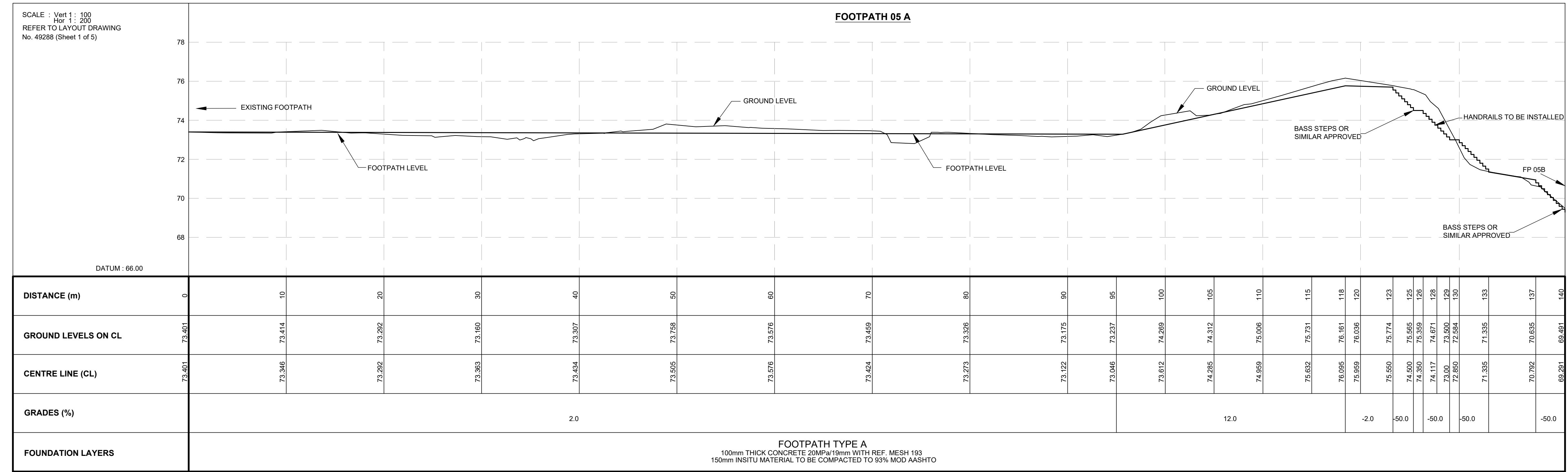
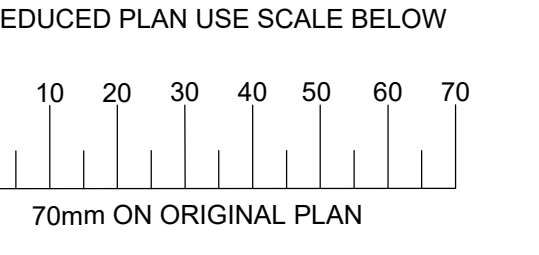




ENGINEERING UNIT
DEVELOPMENT ENGINEERING

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



- GENERAL NOTES
 - 1.1 NO DIMENSIONS ARE PERMITTED UNLESS WRITTEN DIMENSIONS MAY BE DEEMED CORRECT. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 - 1.2 ALL WORK TO COMPLY WITH THE LATEST EDITION OF THE SANS 1000 SPECIFICATIONS.
 - 1.3 ALL CUT SLOPES TO BE SHAPED TO 1:1.5 AND ALL 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 300mm AHEAD OF STEPS TO BE FORMED PRIOR TO FILLING. HEIGHT OF STEPS TO BE APPROXIMATELY 300mm LFTS.
 - 1.5 COMPACTION TESTING TO BE DONE AS FOLLOWS:
 - (a) TEST FOR LAYER FOR EACH 25% 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 PROPOSED 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 SIKKA TOP AMATEC 110 EDC OR SIMILAR APPROVED.
 - 1.8 THESE DESIGNS OR DRAWINGS ARE NOT TO BE SOLD AND ARE SUBJECT TO REGAL REPRODUCTION OR COPYING RIGHTS ARE RESERVED. ALL BY THE CONSULTING ENGINEERS UNDER COPYRIGHT LAW. THESE DRAWINGS HAVE BEEN ISSUED AND RECORDED IN THE FOLLOWING MANNER:
 - (a) THAT THEY ARE NOT USED IN ANY WAY AGAINST THE INTERESTS AND BENEFITS OF THE ENGINEER.
 - (b) THAT THESE DRAWINGS AND ALL COPIES WILL BE RETURNED TO BY IMMEDIATELY ON DEMAND.
 - (c) THAT ALL INFORMATION DISCLOSED BY THESE DRAWINGS SHALL BE DEEMED TO BE CONFIDENTIAL.
- CONCRETE
 - 2.1 CONCRETE WORKS TO COMPLY WITH SANS1000 SECTION G AND SANS1010 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.
 - 2.3 TESTING MUST BE CARRIED OUT IN ACCORDANCE TO SANS METHOD M1 AND TESTED BY AN APPROVED LABORATORY. RESULTS TO BE SUBMITTED TO THE ENGINEER.
 - 2.4 ON THE BASIS OF IMPORTANCE, WHERE DIRECTED BY THE ENGINEER, A SET OF SAMPLES MAY BE REQUESTED.
 - 2.5 UNLESS OTHERWISE ADVISED, NO SAMPLE SHALL BE TAKEN OF ANY CONCRETE UNTIL AT LEAST 14 DAYS AFTER CASTING HAS BEEN MADE AND DISCHARGED FOR THE FOOTPATHS.
 - 2.6 CURING AND PROTECTION SHALL BE ACCORDING TO SANS 1010: 3.9.1.5.3.
 - 2.7 ALL CONCRETE TO BE PROPERLY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP, AT LEAST 7 DAYS AFTER CASTING.
 - 2.8 CONCRETE POURING WILL ONLY BE DONE UPON THE APPROVAL OF THE SHUTTLING AND FIXING OF THE REINFORCEMENT FOR THE FOOTPATHS.
 - 2.9 MIN. CONCRETE CUBE STRENGTH AT 28 DAYS:

FOOTPATH	20 MPa
DRAIN	20 MPa
KERB BASE AND HAUK	20 MPa
STEP CONCRETE BASE	15 MPa
RETAINING WALL BASE	20 MPa

FOR TENDER PURPOSES

DESIGN CONSULTANT

bvi ENGINEERING CONSULTANTS
PROFESSIONAL ENGINEERS
BVI Consulting Engineers KwaZulu-Natal PTY (Ltd)
Pretoria

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Revision	Date	Description
A	26-01-2024	ISSUED FOR TENDER

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

Acquisitions completed

DATE	ENGINEER

UNDERGROUND SERVICES CHECKED

SERVICE	DATE	SIGNATURE
SEWERS		
WATER MAINS		
G.P.O. CABLES		
ELECTRIC CABLES		
S.A.R. CABLES		
E.S.C. CABLES		
D.I. PIPE LINE		

Contract No. 3V-28529

Project Title
PROVISION OF INCREMENTAL SERVICES TO SETTLEMENT UMLAZI

Area : V-V5

Drawing Title
FOOTPATH LONGSECTIONS

Scales Reference
AS SHOWN

Checked	Date	Signature
KP		
Designed		
PT		
Drawn by		
MS		

Senior Manager: Development Engineering (South)

Deputy Head: Development Engineering

Head : Engineering

Drawing No	Sheet
49288	3
	of 5 Sheets