



- NOTES AND SPECIFICATIONS
- GENERAL ENGINEERING NOTES
1. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SABS REQUIREMENTS.
 2. ALL DIMENSIONS ARE IN MILLIMETRES. (UNLESS OTHERWISE SPECIFIED)
 3. DO NOT SCALE FROM THESE DRAWINGS.
 4. ALL DIMENSIONS MUST BE CHECK AND APPROVED ON SITE.
 5. THE CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR MUNICIPAL CIVIL ENGINEERING WORKS, THIRD EDITION 2005 AND THE STANDARD CTWW DETAIL DRAWINGS.
 6. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE STANDARD DRAWINGS (IF APPLICABLE).
 7. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, SERIES 4.
 8. THE SIGNATURE OR INITIALS ON THIS DRAWING, OF ANY MANAGER OF WATER AND SANITATION AND INFRASTRUCTURE DEVELOPMENT DEPARTMENT, IN NO WAY REMOVES ANY RESPONSIBILITY WHATSOEVER FROM THE CONSULTANT.
 9. THE CONSULTANT REMAINS RESPONSIBLE TO ENSURE THAT ALL THE GUIDELINES, STANDARD DRAWINGS, STANDARDS AND SPECIFICATIONS OF WATER AND SANITATION AND INFRASTRUCTURE DEVELOPMENT DEPARTMENT HAVE BEEN MET AND COMPLIED WITH.
 10. FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.
- LEGEND
- 315mm Ø uPVC SEWER PIPE
 - 315mm Ø uPVC SEWER PIPE
 - SEWER MANHOLE
 - WARD BOUNDARY
- SEWER NOTES:
1. PRECAST CONCRETE MANHOLES AND SLABS ARE TO COMPLY WITH SABS 1294 (1993)
 2. PIPE SECTIONS AND SLABS ARE TO BE BEDDED ON A 2:1 CEMENT MORTAR GROUT TO FORM A COMPACTED WATER TIGHT JOINT OF APPROXIMATELY 5 mm.
 3. MANHOLE SHAFTS ARE TO BE PLACED OVER THE LARGEST LANDING ON THE DOWN STREAM SIDE.
 4. STEPS TO BE LOCATED OVER LARGEST LANDING ON DOWN STREAM SIDE.
 5. MANHOLE COVER AND FRAMES TO BE HEAVY DUTY PRECAST CONCRETE COVER WITH STEEL LIP RING AND FRAME.
 6. THE MAXIMUM PROTRUSION OF PIPES INTO MANHOLES TO BE 50mm.
 7. CHANNEL INSERTS BETWEEN STANDARD FITTINGS TO BE 100mm MINIMUM.
 8. THE VERTICAL DISTANCE BETWEEN STEP IRONS IS 250 mm + or - 12 mm. THE HORIZONTAL DISTANCE BETWEEN THE CENTRES OF THE TREADS IS 150mm + or - 12mm.
 9. ALL PIPES AND FITTINGS TO BE uPVC HEAVY DUTY CLASS 34 AND COMPLY WITH SABS 791.
 10. ALL CONNECTIONS TO BE CAPPED BEFORE BACKFILLING AND TO BE WIRE MARKED.
 11. ALL PIPES, FITTINGS TO SABS 559 (1993), AS AMENDED.
 12. ALL CONCRETE TO BE 15MPa AS PER SABS 1200 (1982).
 13. THE MINIMUM GRADE OF THE SEWER CONNECTION IS TO BE 1 IN 60.
 14. IN ALL CASES THE JUNCTION INTO THE MAIN SEWER IS TO BE ENCASED.
 15. INVERT OF CONNECTION TO CONNECT TO SOFFIT OF SEWER.
 16. FOR SEWER LONGITUDINAL SECTIONS SEE DRG. No. CH4081152 AND 53.
 17. ALL WORK AND FREQUENCY OF TESTING TO COMPLY WITH SABS 1200 D.
 18. SETTING OUT DIMENSIONS AND LEVELS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
 19. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER.
 20. ALL INTERNAL SEWER PIPES TO BE 1600 uPVC ON SELECTED GRANULAR MATERIAL.

IF IN DOUBT ASK			
REVISION INFORMATION			
No.	DATE	DESCRIPTION	BY
E1	2022-06-07	ISSUED FOR DETAIL DESIGN	S.H
F1	2023-09-21	ISSUED FOR TENDER	N.M



PROJECT DESCRIPTION	
BURGERSFORT EXT 54, EXT 58, EXT 71 & 72	
DISCIPLINE	
ROADS DEPARTMENT	
DRAWING DESCRIPTION	
BURGERSFORT EXT 54, PUMP STATION GENERAL ARRANGEMENT LAYOUT SHT 2 OF 2	
DRAWN BY: S.IHLONGWANA	SIGNATURE AND DATE: 10 MAR 2023
REVIEWED BY: M. TSOAI Pr Eng :20160198	SIGNATURE AND DATE: 10 MAR 2023
APPROVED BY: M. GWABA Pr Eng :20140479	SIGNATURE AND DATE: 10 MAR 2023
PROJECT NO 1121	DATE 28 FEB 2023
DRAWING NO NT06-22-1121-100-PS-002	
SCALE AS SHOWN	SHEET SIZE A0
REVISION F1	