



NOTE:  
FOR PIPE TRENCH DETAIL  
REFER TO DRAWING  
P3589-C-TD-002

SEWER - GENERATOR BUILDING FOUL SEWER SETTING OUT:					
STRUCTURE NAME	Y	X	MH COVER	MH IL MH DEPTH	PIPE IL
Rd 5 (Manhole Type)	42 538.087	3 479 743.191	966.227	967.202 1.017	L OUT 967.203 (P1)
Tank 3 (Conservancy Tank)	42 533.076	3 479 732.111	967.731	965.575 2.157	L IN 967.351 (P1)

- NOTES:
- THIS DRAWING IS BASED ON THE LO-21 WGS84 COORDINATE SYSTEM.
  - ALL SETTING OUT DATA MUST BE CONFIRMED WITH THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK AND ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER FOR VERIFICATION.
  - ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH SANS 1200.
  - ALL WORK SHALL BE TESTED AS PER THE REQUIREMENTS OF SANS 1200 OR AS PER THE APPROVED OMS.
  - THE CONTRACTOR IS TO REMAIN CLEAR OF - AND NO WORK TO BE DONE WITHIN - ENVIRONMENTALLY SENSITIVE AREAS WITHOUT PRIOR CONSENT FROM THE ECO.
  - TOPSOIL STRIPPING TO BE DONE TO A MINIMUM DEPTH OF 150mm AND ALL ORGANIC MATERIAL TO BE REMOVED. TOPSOIL IS TO BE BLADED INTO WINDROWS ON EITHER SIDE OUTSIDE OF THE CONSTRUCTION AREA.
  - ALL EXISTING STORMWATER AND ROAD INFRASTRUCTURE TO BE PRESERVED AND MAINTAINED DURING CONSTRUCTION.

- SEWER NOTES:
- BEFORE ANY TRENCH EXCAVATION IS STARTED THE CONTRACTOR MUST CHECK AND CONFIRM THE POSITION AND INVERT LEVEL OF THE EXISTING SERVICES WITH THE EMPLOYER'S AGENT.
  - ALL PIPE TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH THE REQUIREMENTS OF SANS 1200 AND COMPACTED TO A MINIMUM DENSITY OF 98% MOD. AASHTO.
  - ALL SERVICES SHALL BE LAID ON BEDDING CLASS C.
  - ALL PIPE TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH THE REQUIREMENTS OF SANS 1200 AND COMPACTED TO A MINIMUM DENSITY OF 98% MOD. AASHTO.
  - ALL MANHOLE AND CATCHPIT COVER LEVELS ARE GIVEN AS APPROXIMATE VALUES (CL - #/#/#). FINAL FINISHED COVER LEVELS FOR MANHOLES TO BE FLUSH WITH THE FINISHED ROAD SURFACE WHEN MANHOLE IS SITUATED IN ROADS OR PARKING AREAS. OTHERWISE, 50mm ABOVE THE FINISHED GROUND LEVEL IF SITUATED IN LANDSCAPED OR OPEN AREAS, UNLESS OTHERWISE SPECIFIED OR INSTRUCTED.
  - ALL UNDERGROUND BURIED UPVC SEWER PIPES SHALL COMPLY WITH SANS 1601 - TYPE WITH A HOOP STIFFNESS OF 400 kPa AND SMOOTH INNER AND OUTER WALLS, COMPLETE WITH INTERNAL SOCKETS, JOINTS AND RUBBER SEAL RINGS.
  - ALL ANY FOUL SEWER SHALL LOWER THAN 400mm BELOW FRL TO BE CAST IN CONCRETE 150mm ALL ROUND.
  - ALL UNDERGROUND BURIED UPVC SEWER FITTINGS SHALL COMPLY WITH SANS 1611 WITH SMOOTH INNER AND OUTER WALLS.
  - WHERE A NEW SEWER CONNECTION IS MADE ON THE MUNICIPAL MAIN SEWER LINE, THE NEW INCOMING SEWER PIPE SHALL TIE IN ABOVE THE EXISTING SEWER BENCHING.
  - ALL MANHOLES TO BE AS PER THE STANDARD DETAIL.

B	2025-02-12	FOR TENDER
A	2024-12-12	FOR TENDER
REV	DATE	DESCRIPTION

UITZICHT BUILDING, TYGERBERG OFFICE PARK  
163 UPS RIVER DRIVE, PLATTEKLOOF, CAPE TOWN, 7500  
EMAIL: EKCON@EKCON.CO.ZA  
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CLIENT

**SOUTH AFRICAN NATIONAL  
SPACE AGENCY**

PROJECT TITLE

**SANSA MATJIESFONTEIN**

DRAWING TITLE

**SEWER LAYOUT &  
LONGITUDINAL SECTIONS:  
GENERATOR BUILDING**

SCALE

**AS SHOWN**

SIZE

**A0**

APPROVED

**SHR BUCKLE**

DESIGNED

**S. NDINISA**

CHECKED

**SHR BUCKLE**

*SHR Buckle*

ECSA  
PR ENG  
201402060

DRAWING STATUS

**FOR TENDER**

DRAWING NUMBER

**P3589-C-FS- 003**

REV

**B**

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