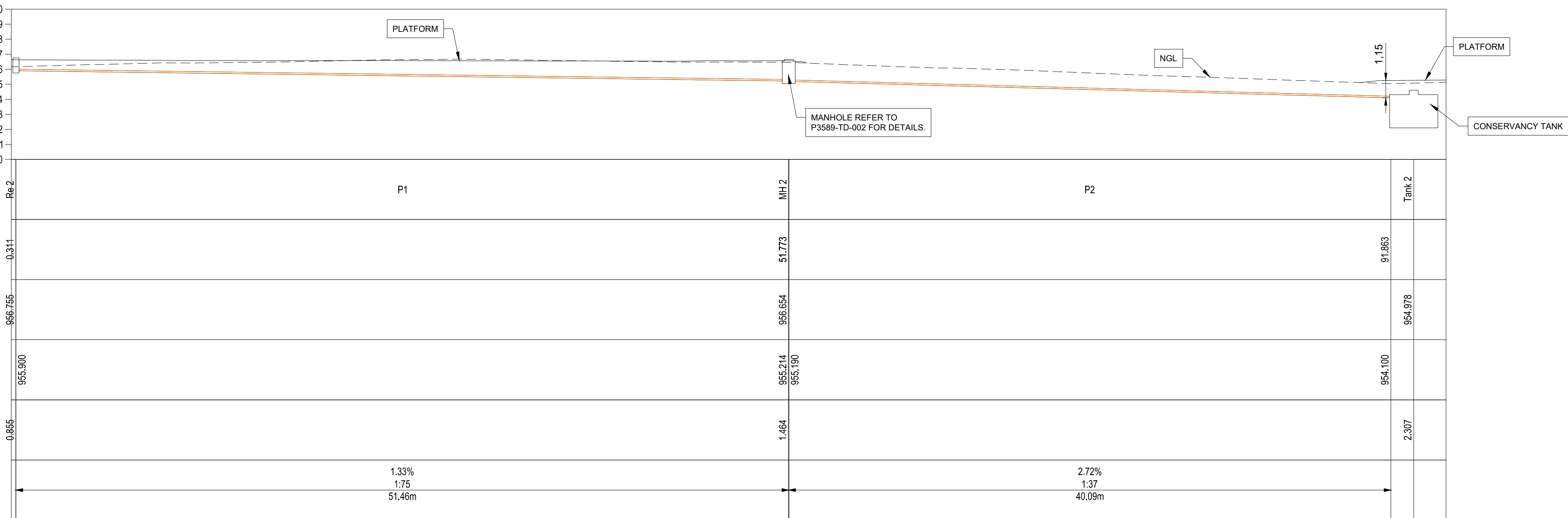


MAIN BUILDING
SCALE 1:150

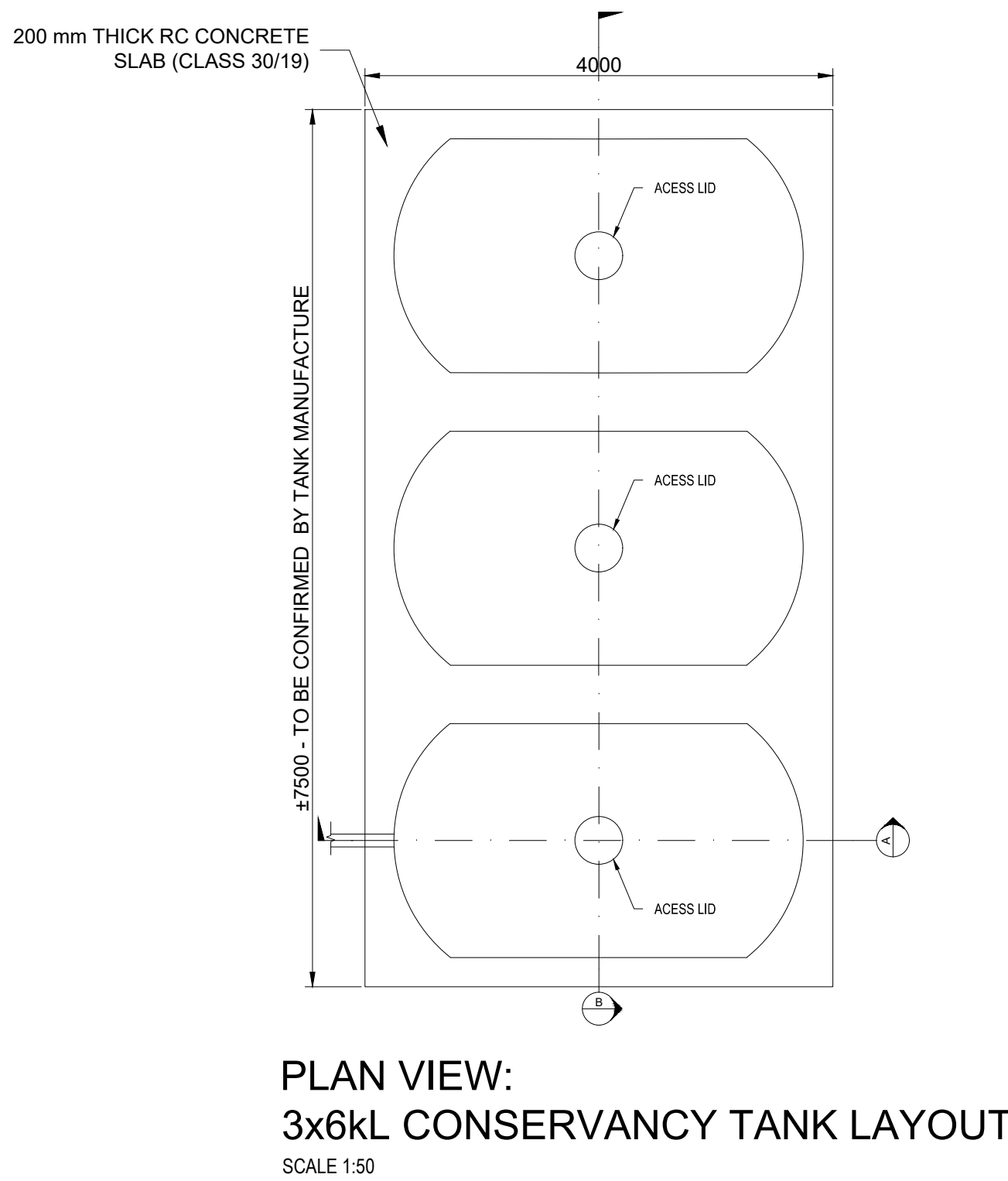
SCALES:
Horizontal 1:200
Vertical 1:200

DATUM 950.000

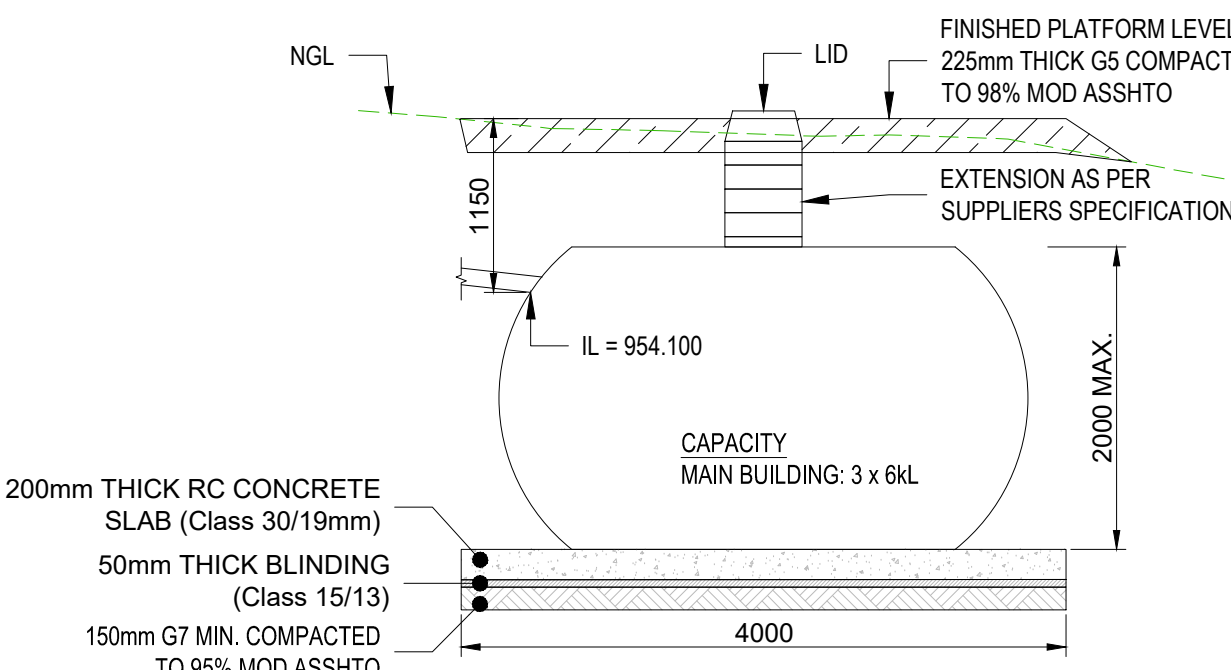
PART REFERENCE
DISTANCE (m)
STRUCTURE COVER LEVEL
PIPE INVERT LEVEL
STRUCTURE DEPTH
SLOPE / LENGTH



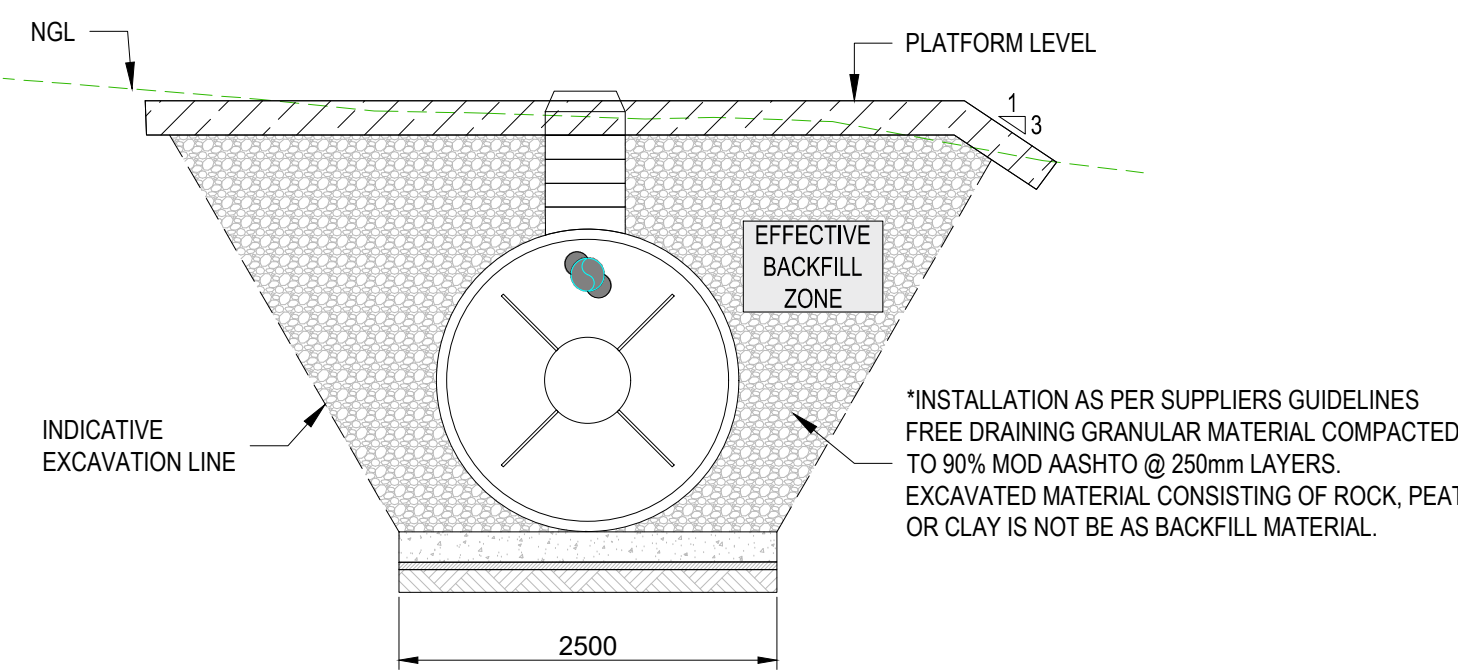
SEWER - MAIN BUILDING LONGSECTION
0.000 TO 95.539



PLAN VIEW:
3x6kL CONSERVANCY TANK LAYOUT
SCALE 1:50



TYPICAL SECTION A
SCALE 1:50



TYPICAL SECTION B
SCALE 1:50

SEWER - MAIN BUILDING FOUL SEWER SETTING OUT:					
STRUCTURE NAME	Y	X	MH COVER	MH IL MH DEPTH	PIPE IL
MH 2 (220mm Brick Manhole)	42 147 882	3 679 719.138	956.654	955.196 1.468	L IN: 955.230 (P10) L OUT: 955.234 (P10) L OUT: 955.196 (P2)
MH 3 (Shallow Day)	42 164 440	3 679 763.575	956.750	955.550 0.800	L IN: 955.580 (P10) L OUT: 955.580 (P10)
MH 4 (Shallow Day)	42 201 325	3 679 732.091	956.887	955.196 1.671	L IN: 955.234 (P10) L OUT: 955.234 (P10)
MH 5 (Shallow Day)	42 162 075	3 679 707.028	956.828	955.421 0.407	L IN: 955.441 (P10) L OUT: 955.441 (P10)
MH 6 (Shallow Day)	42 171 078	3 679 707.004	956.875	955.036 1.839	L IN: 955.021 (P10) L OUT: 955.021 (P10)
Tank 2 (3 x 6kL Conservancy Tank)	42 157 432	3 679 719.385	956.687	955.300 2.387	L IN: 955.191 (P10)

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 VINDROWS 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 1001 - TYPE WITH A HOOP STIFFNESS OF 400 kPa AND SMOOTH INNER AND OUTER WALLS, COMPLETE WITH INTERNAL SOCKETS, JOINTS AND RUBBER SEAL RINGS.
- ALL MOUNTING SHALL BE SHALLOWER THAN 400mm BELOW FRL TO BE CAST IN CONCRETE 150mm ALL ROUND.
- ALL UNDERGROUND BURIED UPVC SEWER FITTINGS SHALL COMPLY WITH SANS 1011 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

UTZICHT BUILDING, TYGERSBERG OFFICE PARK
163 UPS RIDGE DRIVE, PLATTEKLOOF, CAPE TOWN, 7500
EMAIL: EKCON@EKCON.CO.ZA
TEL: 021 939 9360

CLIENT

**SOUTH AFRICAN NATIONAL
SPACE AGENCY**

PROJECT TITLE

SANSA MATJIESFONTEIN

DRAWING TITLE

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

SCALE

AS SHOWN

SIZE

A0

APPROVED

SHR BUCKLE

DESIGNED

S. NDINISA

CHECKED

SHR BUCKLE

ECOA

PR ENG

2024/08/08

DRAWING STATUS

FOR TENDER

DRAWING NUMBER

P3589-C-FS-002

REV

B

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