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- SEWER:
1. ALL PIPES TO BE LAID IN ACCORDANCE WITH SANS 1200, LATEST REVISION AND THE REQUIREMENTS OF JOHANNESBURG WATER SOC LTD.
 2. ALL PIPES TO LAID UNDER TRENCH CONDITIONS UNLESS OTHERWISE SHOWN.
 3. ALL CONSTRUCTION WORK TO BE CARRIED OUT IN STRICT ACCORDANCE WITH REQUIREMENTS OF JOHANNESBURG WATER.
 4. SEWERS GENERALLY 1.5m FROM BOUNDARIES UNLESS OTHERWISE SHOWN.
 5. DO NOT SCALE FROM THESE DRAWINGS.
 6. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS.
 7. THE FINAL PIPE ROUTE TO BE DETERMINED ON SITE AFTER EXPOSING OF EXISTING SERVICES.
 8. ALL WORKS TO BE APPROVED BY EMPLOYEE AGENT REPRESENTATIVE BEFORE CONSTRUCTION.
 9. CONTRACTOR TO CONFIRM LEVELS OF EXISTING PIPES BEFORE COMMENCING CONSTRUCTION.
 10. POSITIONS OF ALL EXISTING SERVICES ARE APPROXIMATED AND MUST BE VERIFIED ON SITE.
 11. ALL MATERIALS USED IN INSTALLING SEWER MAINS SHALL COMPLY WITH THE RELEVANT SABS SPECIFICATION AND WITH THE MINIMUM REQUIREMENTS OF JOHANNESBURG WATER (SOC) LTD.
 12. THE POSITION AND DEPTH OF ALL EXISTING SERVICES ON THE SITE AND OFF THE SITE WHERE AFFECTED BY THE WORKS SHALL BE CONFIRMED PRIOR TO ANY CONSTRUCTION WORK ON THE INSTALLATION OF WATER OR SEWER MAINS BEING COMMENCED.
 13. THE CONTRACTOR SHALL CARRY OUT WORKS TO TIE-IN CONNECTIONS TO EXISTING SEWER MANHOLES AND MAINS.
 14. POSITIONS OF ALL EXISTING SERVICES ARE APPROXIMATED AND MUST BE VERIFIED ON SITE BY ENGINEER REPRESENTATIVE AND CONTRACTOR.

PIPE ANCHOR
1. GRADE BETWEEN 1:10 AND 1:6 ANCHOR BLOCKS SHALL BE INSTALLED AT INTERVALS NOT EXCEEDING 12 METERS.

SEWER MANHOLES
1. SEWER MANHOLES ARE TO BE SPACED AT A MAXIMUM OF 80 METERS.

PLEASE NOTE:
- STREET NAMES EXTRACTED FROM IMOS.

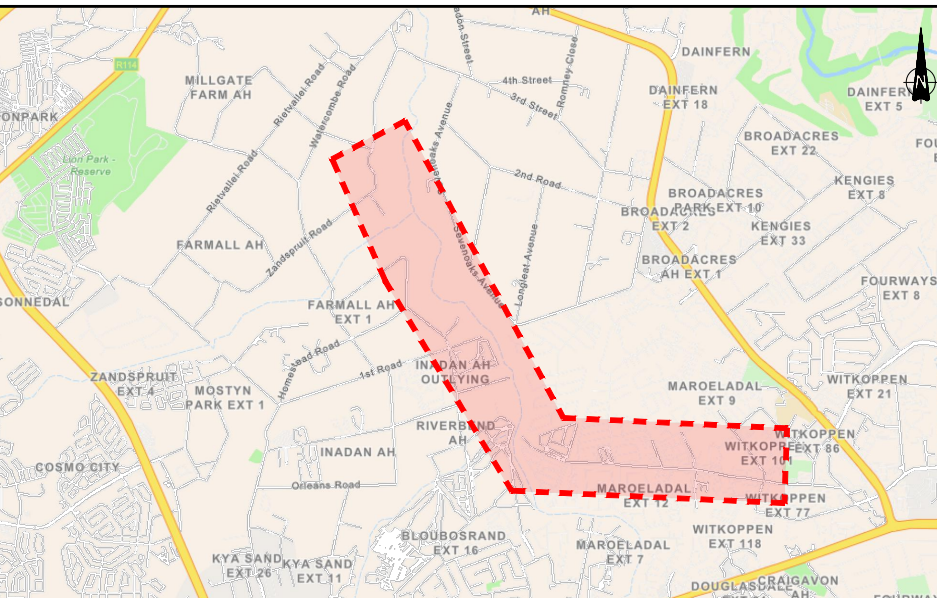
LEGEND

- NEW SEWER PIPE
- NEW SEWER MANHOLE
- DIRECTION OF FLOW
- EXISTING SEWER PIPE
- EXISTING SEWER MANHOLE
- CONTOURS
- 1:100yr FLOOD LINE
- PACKAGE BOUNDARY

DRAWING REFERENCE:

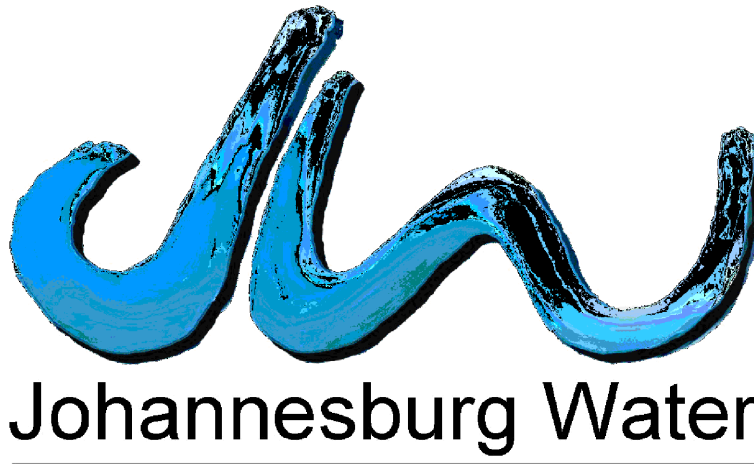
JW14460-CRA-GLP-S01	GENERAL LAYOUT PLAN
JW14460-CRA-COR-S01	COORDINATES TABLE
JW14460-CRA-LAY-S01	LAYOUT PLAN PACKAGE 1 SHEET 1
JW14460-CRA-LAY-S02	LAYOUT PLAN PACKAGE 1 SHEET 2
JW14460-CRA-LAY-S03	LAYOUT PLAN PACKAGE 2 SHEET 1
JW14460-CRA-LAY-S04	LAYOUT PLAN PACKAGE 2 SHEET 2
JW14460-CRA-LAY-S05	LAYOUT PLAN PACKAGE 2 SHEET 3
JW14460-CRA-LS-S01	PACKAGE 1 LONG SECTION SHEET 1
JW14460-CRA-LS-S02	PACKAGE 1 LONG SECTION SHEET 2
JW14460-CRA-LS-S03	PACKAGE 1 LONG SECTION SHEET 3
JW14460-CRA-LS-S04	PACKAGE 2 LONG SECTION SHEET 1
JW14460-CRA-LS-S05	PACKAGE 2 LONG SECTION SHEET 2
JW14460-CRA-LS-S06	PACKAGE 2 LONG SECTION SHEET 3
JW14460-CRA-LS-S07	PACKAGE 2 LONG SECTION SHEET 4
JW14460-CRA-LS-S08	PACKAGE 2 LONG SECTION SHEET 5
JW14460-CRA-VCB-S01	TYPICAL AIR VALVE CHAMBER DETAIL
JW14460-CRA-VCB-S02	TYPICAL SCOUR VALVE CHAMBER DETAIL
JW100-DET02-W01	BEDDING DETAIL
JW100-DET03-S01	MANHOLE DETAILS FOR SEWER
JW100-DET02-S01	SEWER ERF CONNECTIONS
JW100-DET01-1-W01	NAMEBOARD

LOCALITY PLAN:

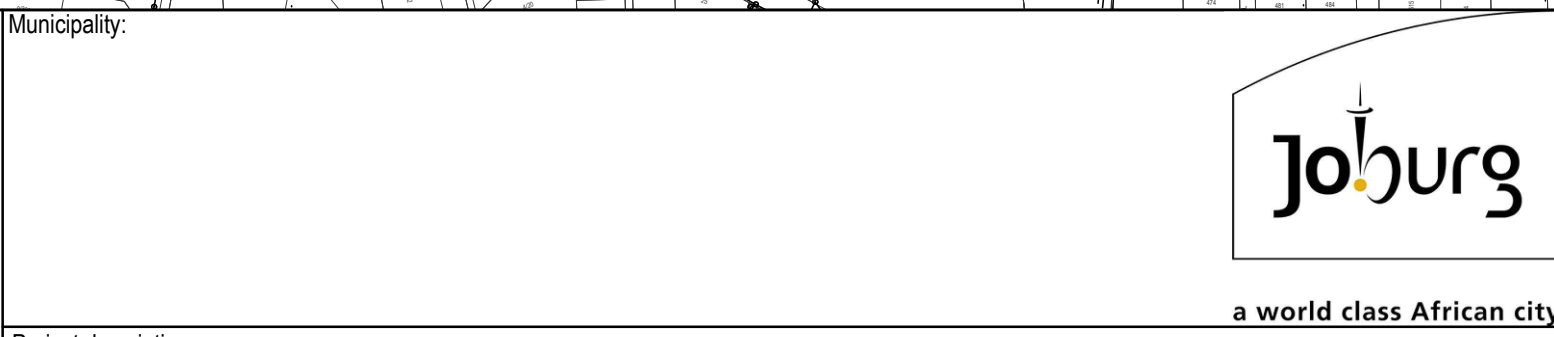


CONSULTING ENGINEERS
CAPEX - ENGINEERING SERVICE UNIT
TURBINE HALL - 3RD FLOOR
65 NTEMI PILISO STREET
NEWTOWN
JOHANNESBURG
2113

DESIGNED	N.NKOSI	16/09/2024
	SIGNATURE:	
DRAWN	M.LBALLIM	25/09/2024
	SIGNATURE:	
CHECKED	N.NKOSI	25/09/2024
	SIGNATURE:	
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UPGRADING OF INCHANGA SEWER RISING MAIN
PACKAGE 1 & 2
GENERAL LAYOUT PLAN

SCALE

1:4000

AMENDMENTS

REV	DESCRIPTION	DATE	BY	APV
A	PRELIMINARY DESIGN REPORT	2023/03/03	MB	T.M
B	DETAILED DESIGN REPORT	2024/06/10	MB	T.M
C	ISSUE FOR TENDER	2024/09/10	MB	T.M

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