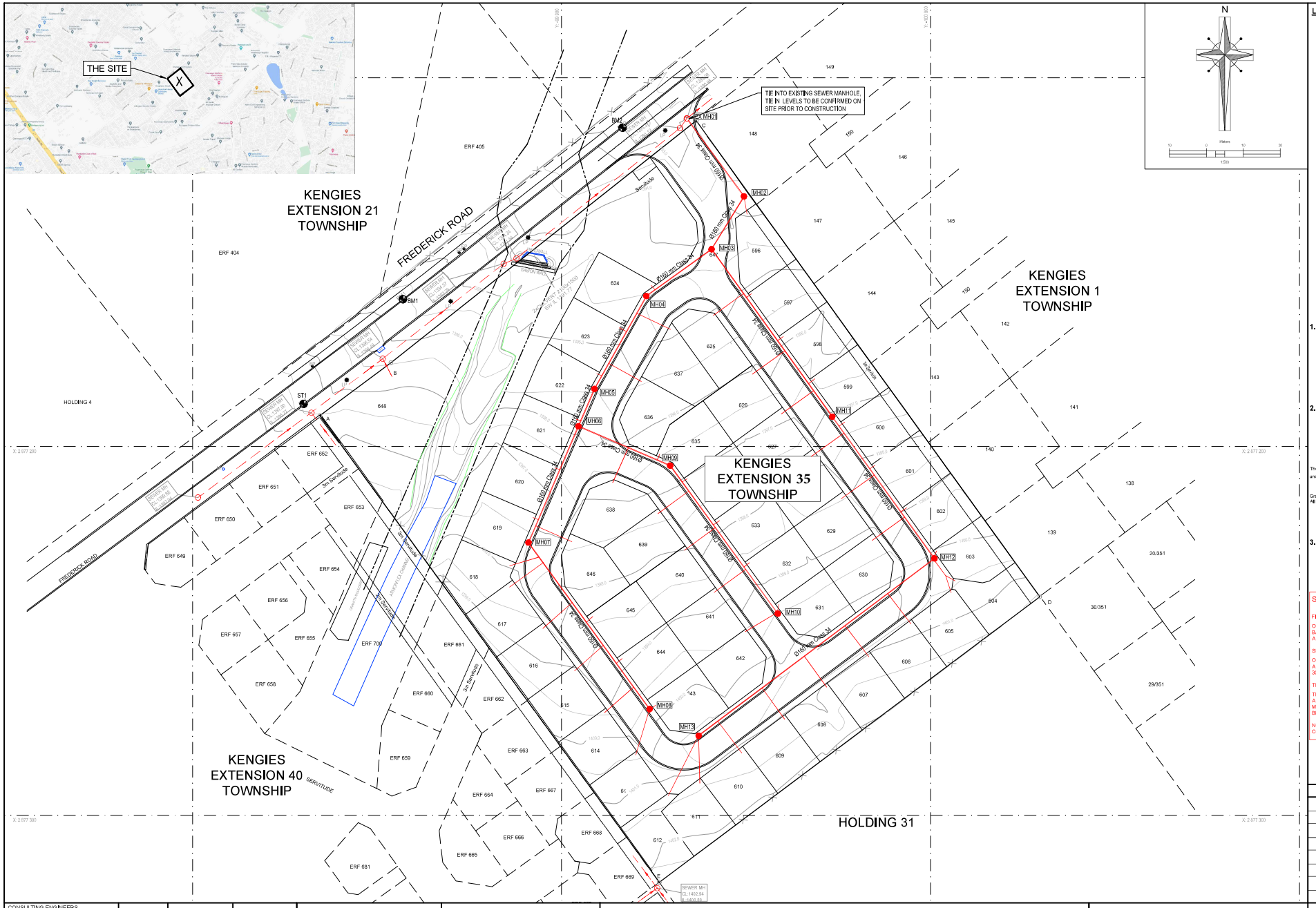

LEGEND

- EXISTING SEWER PIPE
- NEW 1000mmØ SEWER MANHOLE
- NEW 160mmØ CLASS 34 uPVC SEWER PIPE
- SEWER HOUSE CONNECTION WITH RODDING EYE
- EXISTING SEWER MANHOLE

1. General notes

1.1. The New Customer Manager at the Johannesburg Water (Pty) Ltd Regional Office must be notified before any construction works related to the installation of water or sewer may be commenced.
1.2. All construction work shall comply with the relevant SABS 1200 Specification and Johannesburg Water (Pty) Ltd specific requirements.
1.3. All materials used in installing water and sewer mains shall comply with the relevant SABS Specification and with the minimum requirements of Johannesburg Water (Pty) Ltd.
1.4. 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 of sewer mains being commenced.
1.5. Only Johannesburg Water (Pty) Ltd staff shall carry out tie-in connections to existing water and sewer manholes and mains. Note that a minimum of **2 weeks** notice shall be given to Johannesburg Water (Pty) Ltd staff to attend site inspections, meeting and any other necessary on site liaison.

2. Specific water requirements

2.1. For standard details refer to Johannesburg Water standard drawings.
2.2. Protection of fittings and mains:
2.2.1. Steel mains: Copon lined and suitably wrapped per specification.
2.2.2. Steel fittings: Copon coated internally and suitably wrapped per specification.
2.2.3. Galvanised fittings: suitably wrapped per specification.
2.3. All valve and below ground hydrant chambers to be watertight.
2.4. Position of across the road erf connections to be marked by a **W** cut into the kerbstone.
2.5. The contractor shall not operate any water valve or other fittings without the permission of Johannesburg Water (Pty) Ltd.
2.6. Cover to water mains:

The depths listed are depths to final ground level **inclusive** of **any landscaping** undertaken on the site.

	Minimum (mm)	Maximum (mm)
Gravel Road	1000	1500
All other areas	800	1500

2.7. All water mains are to be installed at 2 meters from erf boundaries unless otherwise shown on the drawing.
2.8. Any anchor blocks constructed are to properly shuttered and cast against undisturbed ground. Any over excavation is to be filled with mass concrete.

3. Specific sewer requirements

3.1. For standard details refer to Johannesburg Water standard drawings.
3.2. All materials shall comply with the relevant SABS Specification and with the requirements of Johannesburg Water (Pty) Ltd.
3.3. Sewers laid at gradients steeper than 1:12 shall be anchored at the joints with properly designed anchor blocks. Concrete of strength 15MPa (1:3:6) shall be used for anchor blocks. No trees or shrubs shall be planted within **2 meters** of any sewer main.
3.4. Sewer manholes are to be spaced a maximum distance of **80 meters.**

SEWER INSPECTION NOTES

FIRST INSPECTION:
ONCE THE PIPING AND BENCHING HAVE BEEN INSTALLED, BACKFILLED
AND COMPACTED TO 50% OF THE DIAMETER OF THE PIPE.

SECOND INSPECTION:
ONCE THE COMPACTED BACKFILLING HAS BEEN COMPLETED TO APPROX.
300mm ABOVE THE PIPES

THIRD INSPECTION:
THE FINAL TAKE-OVER INSPECTION.
A PRESSURE TEST WILL BE DONE AT THIS STAGE. THE WORKS MUST
BE COMPLETE.

NOTE: A CHARGE OF APPROX. R250.00 WILL BE LEVIED BY THE COUNCIL

REFERENCE DRAWINGS

CONSULTING ENGINEERS
CESA
TRIPLE 3 Group - Since 1999
ENGINEERING (Pty) Ltd
Western Cape Office - Block A4 Polo Village Office Estate, Val de Vie, Paarl, 7646 / PO Box 227 Val de Vie Estate, Paarl, 7646
Gauteng Office - Unit 5, First Floor, Amorosa Estate, Cnr Doreen & Lawrence Road, Ruimsig, Roodepoort /
PO Box 227 Val de Vie Estate, Paarl, 7646
Tel 010 745 1333, Fax 087 135 1083 /
info@triple3.co.za / www.triple3.co.za

DESIGNED	G J LE ROUX	
DRAWN	R ALHO	
CHECKED	R ALHO	
	SIGNATURE	
APPROVED BY:	G.J. LE ROUX	DATE 2021-04-15
	SIGNATURE	
	ECSA REG. No 200070105	

Johannesburg Water

17 HARRISON STREET
MARSHALLTOWN
2107

TEL: (011) 688-1400

FAX: (011) 688-1529

Joburg

RESIDENTIAL DEVELOPMENT KENGIES EXT. 35

SEWER RETICULATION LAYOUT

AMENDMENTS

SCALE	REV.	DESCRIPTION	APPROVED	DATE
1:500	A	CONCEPT DRAWING	RA	2021-04-15

DRAWING No. 355-05-01

355 PROJECT No. | A REV.

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FILE No.