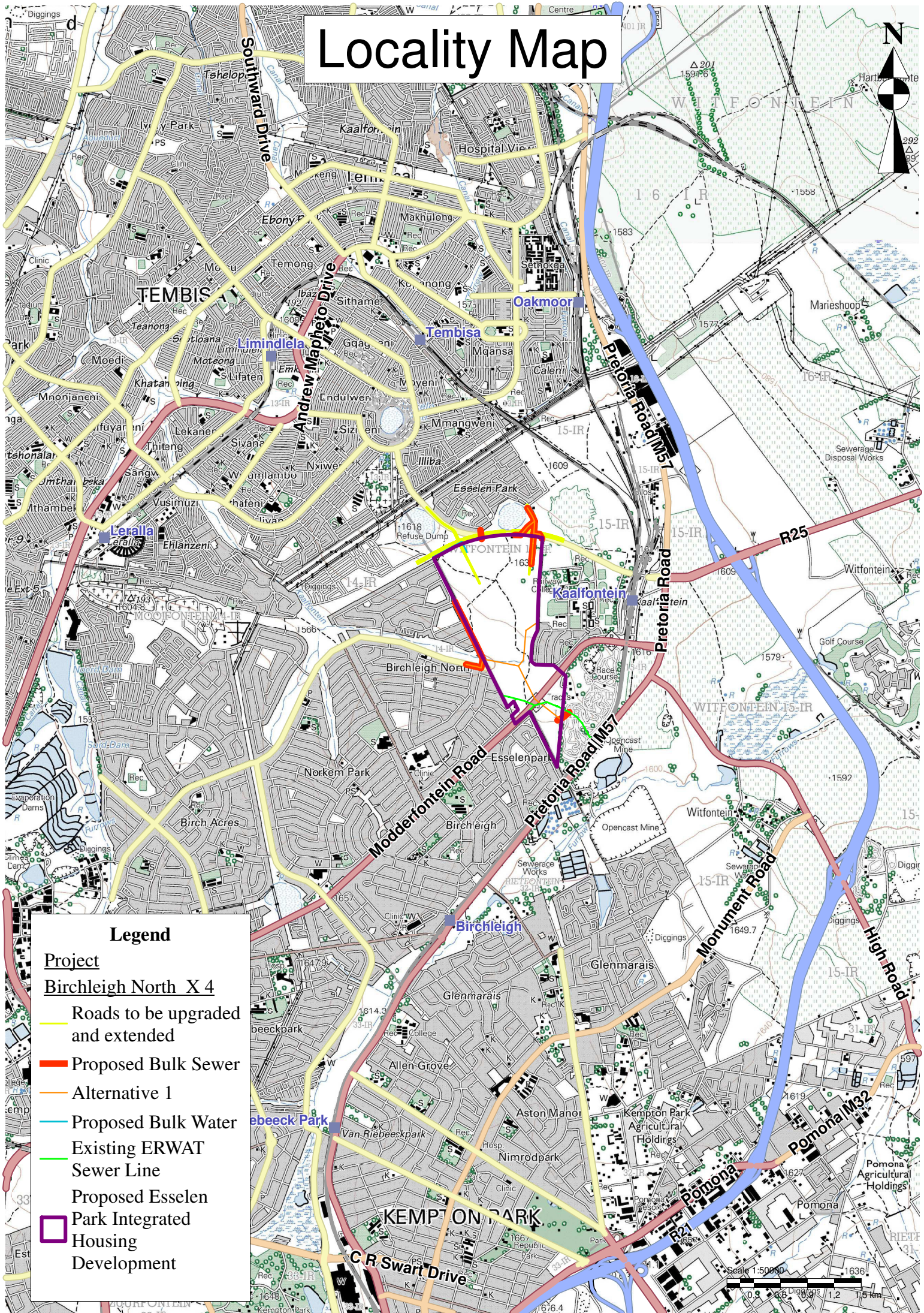


# Layout Map



# Locality Map



## Legend

### Project

#### Birchleigh North X 4

— Roads to be upgraded and extended

— Proposed Bulk Sewer

— Alternative 1

— Proposed Bulk Water

— Existing ERWAT Sewer Line

— Proposed Esselen

□ Park Integrated

□ Housing

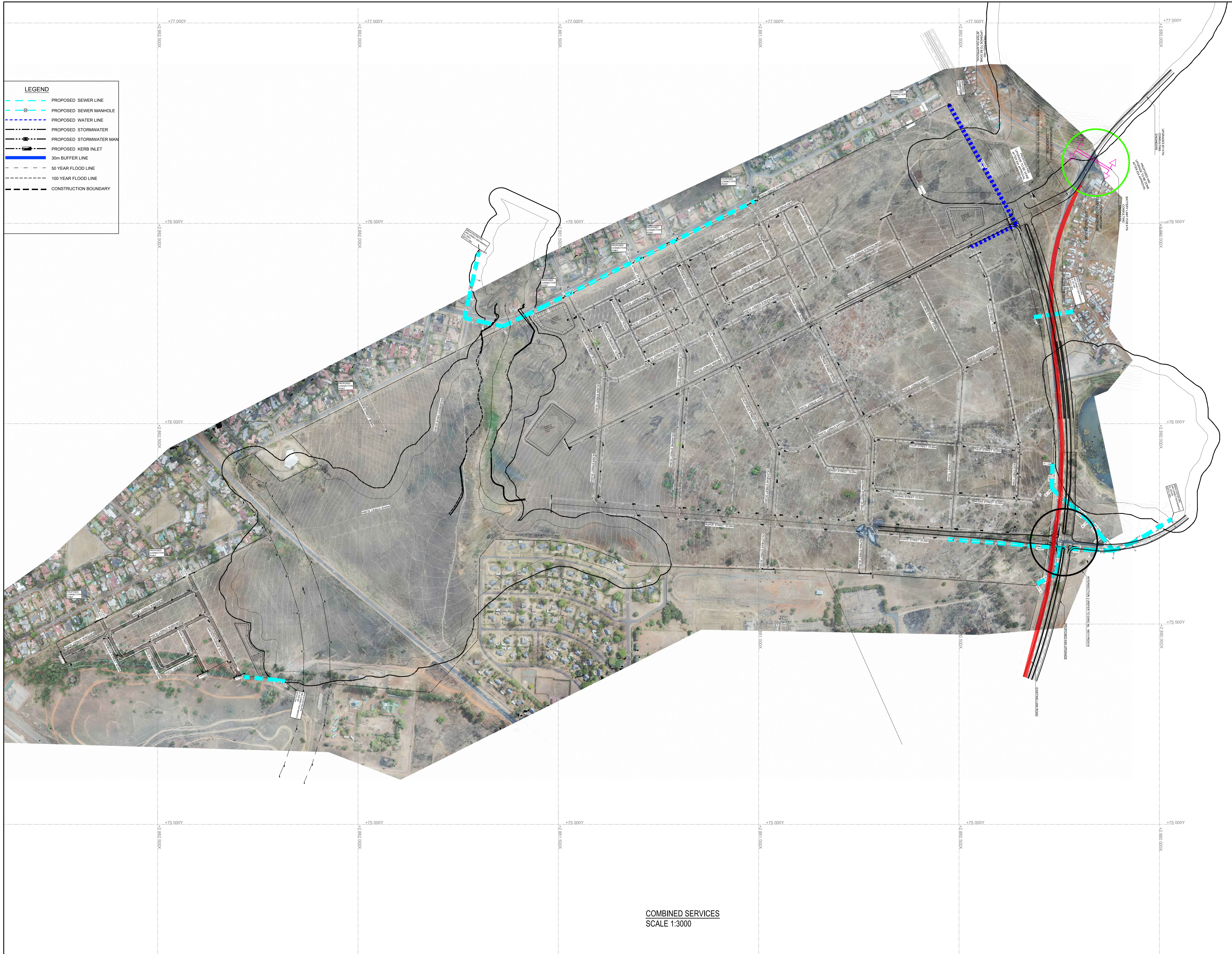
□ Development

Scale 1:50,000  
0.9 1.2 1.5



# Proposal





COMBINED SERVICES  
SCALE 1:3000

**IF IN DOUBT ASK**

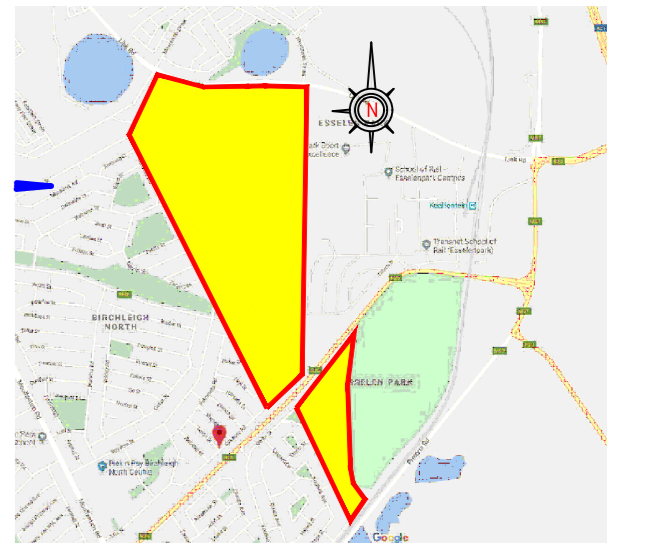
REV	DATE	REVISION DESCRIPTION	BY	CHKD
A	2018-09-25	ISSUED FOR PRELIMINARY REPORT	FG	LF
B	2018-11-16	ISSUED FOR DETAILED DESIGN	FG	LF

ASSOCIATED DWG No.	DRAWING DESCRIPTION

**GENERAL NOTES**  
 CITY OF EKURHULENI MUST BE NOTIFIED BEFORE ANY CONSTRUCTION WORKS RELATED TO THE INSTALLATION OF WATER OR SEWER MAY BE COMMENCED. ALL CONSTRUCTION WORK SHALL COMPLY WITH THE RELEVANT SABS 1200 SPECIFICATION.  
 2. ALL MATERIALS USED IN THE INSTALLING OF SEWER AND WATER MAIN SHALL COMPLY WITH THE RELEVANT SABS SPECIFICATION.  
 3. AND THE MINIMUM REQUIREMENTS OF CITY OF EKURHULENI THE POSITION AND AND DEPTH OF ALL EXISTING SERVICES ON THE SITE AND OFF SITE WHERE AFFECTED BY THE WORKS.  
 4. SHALL BE CONFIRMED PRIOR TO ANY CONSTRUCTION WORK ON THE INSTALLATION OF WATER AND SEWER MAINS BEING COMMENCED. CITY OF EKURHULENI SHALL BE NOTIFIED WHEN THERE IS A NEED TO CONNECT INTO EXISTING WATER AND SEWER.  
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- RELEVANT STANDARDS**
- SABS 1200 A - GENERAL
  - SABS 1200 AA - GENERAL (SMALL WORKS)
  - SABS 1200 D - EARTHWORKS
  - SABS 1200 DA - EARTHWORKS (SMALL WORKS)
  - SABS 1200 DB - EARTHWORKS (PIPE TRENCHES)
  - SABS 1200 G - CONCRETE (STRUCTURAL WORKS)
  - SABS 1200 GA - CONCRETE (SMALL WORKS)
  - SABS 1200 LB - BEDDING (PIPES)
  - SABS 1200 LF - ERF CONNECTIONS
  - SABS 1200 LN - STEEL PIPE AND LININGS



LOCALITY PLAN



LEBASH CONSORTIUM  
 11 WILLOWBROOK OFFICE PARK TEL: +27 11 958 0437  
 VAN HOOF STREET +27 11 958 0239  
 RUIMSIG, 1735 E-mail: admin@lebasharchitects.co.za

project title  
**PROPOSED TOWNSHIP  
 BIRCHLEIGH NORTH EXTENSION 4**

**ISSUED FOR  
 DETAILED**

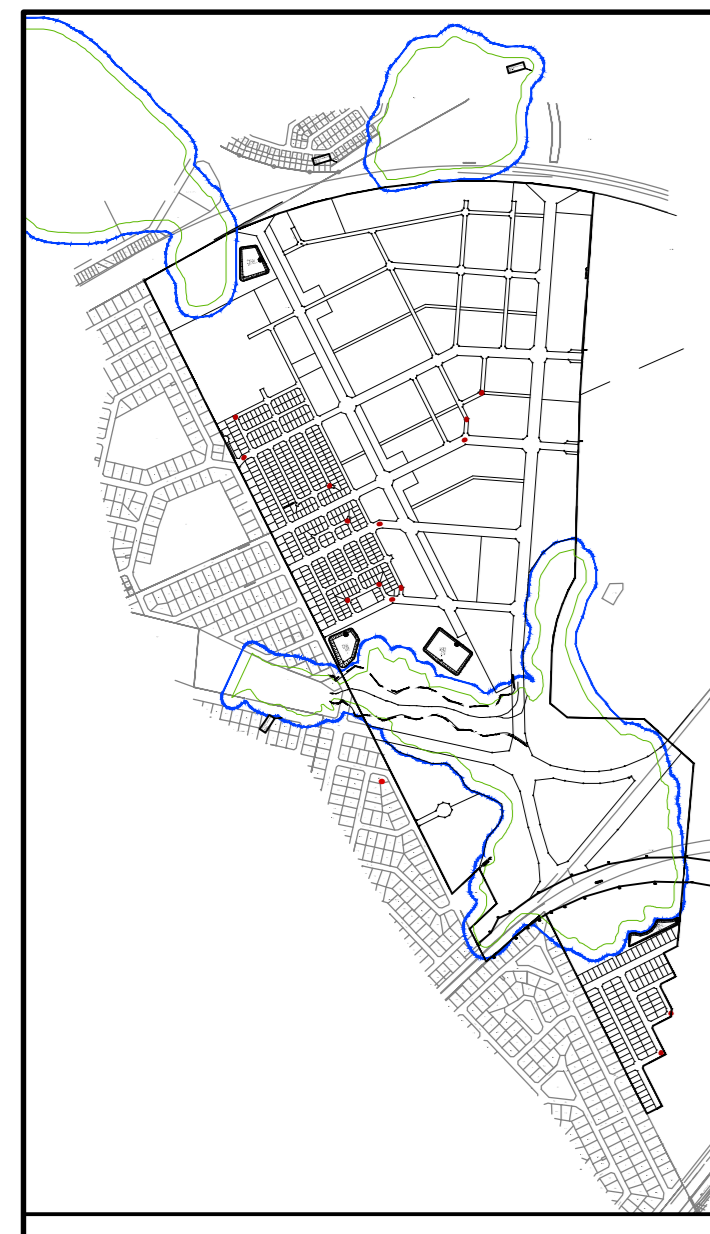
drawing title  
**COMBINED SERVICES LAYOUT**

REF. NO.	N/A	designed	FG
scale	AS SHOWN	drawn	SC
date	NOVEMBER 2018	checked	LF
type number	DETAILED DESIGN		PAPER SIZE A0
drawing number	18017/C/GL/101		REVISION A



# Alternative 1





KEY PLAN

**LEGEND**

- PROPOSED SEWER LINE
- PROPOSED SEWER MANHOLE
- 30m BUFFER LINE
- 50 YEAR FLOOD LINE
- - - 100 YEAR FLOOD LINE
- - - CONSTRUCTION BOUNDARY

TOTAL LENGTHS OF PIPING	
MH Centre to MH Centre	
Diameter (mm)	Length (m)
500mm uPVC Class 34	167.10
450mm uPVC Class 34	158.12
315mm uPVC Class 34	406.52
250mm uPVC Class 34	1 731.17
200mm uPVC Class 34	843.72
160mm uPVC Class 34	10 970.16
<b>Total</b>	<b>14 229.79</b>



SEWER LAYOUT  
SCALE 1:3000

IF IN DOUBT ASK

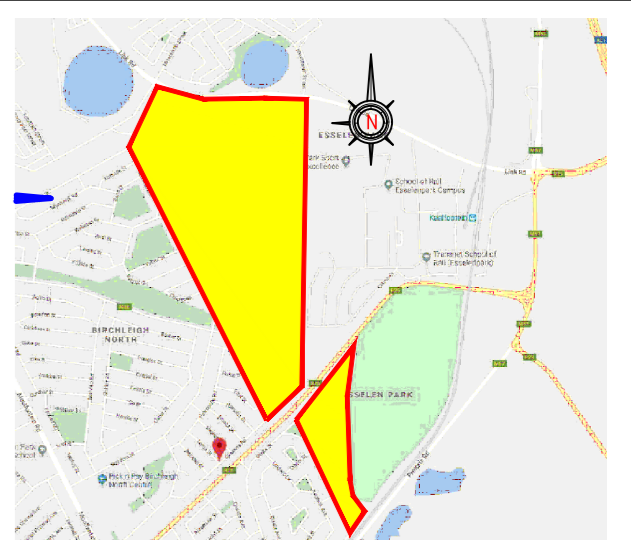
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drawing number	18017/C/S/300	revision	B