



**POINT TABLE**  
LO 29, WGS84 DATUM

POINT	Y	X	LEVEL
C1	74 124.833	2 839 087.971	1223.95
C2	74 127.758	2 839 092.620	1223.55
C3	74 086.235	2 839 084.484	1223.75
C4	74 090.698	2 839 081.282	1224.15
C5	74 091.330	2 839 058.478	1223.15
C6	74 094.256	2 839 063.128	1223.55
C7	74 128.390	2 839 069.816	1223.75
C8	74 132.854	2 839 066.615	1223.35

- NOTES AND SPECIFICATIONS**
- GENERAL**
- 1 ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SABS REQUIREMENTS.
  - 2 ALL DIMENSIONS ARE IN MILLIMETERS. (UNLESS OTHERWISE SPECIFIED)
  - 3 DO NOT SCALE FROM THESE DRAWINGS.
  - 4 ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.
  - 5 ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, THIRD EDITION 2005 AND THE STANDARD CTMM DETAIL DRAWINGS.
  - 6 THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE ARCHITECTS DRAWINGS. (IF APPLICABLE)
  - 7 THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, SERIES 6.
  - 8 THE SIGNATURE OR INITIALS ON THIS DRAWING, OF ANY MANAGER OF THE TRANSPORT DEPARTMENT, IN NO WAY REMOVES ANY RESPONSIBILITY WHATSOEVER FROM THE CONSULTANT.
  - 9 THE CONSULTANT REMAINS RESPONSIBLE TO ENSURE THAT ALL THE GUIDELINES, STANDARD DRAWINGS, STANDARDS AND SPECIFICATIONS OF THE TRANSPORT DEPARTMENT HAVE BEEN MET AND ARE COMPLIED WITH.
  - 10 FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.

- LEGEND:**
- STORMWATER:**
- NEW PROPOSED PIPE:
  - EXISTING PIPE:
  - NEW PROPOSED MANHOLE:
  - PROPOSED GRID INLET:
  - RENO MATTRESS:
  - 180mm CONCRETE ROAD:
  - 60mm OBLONG BLOCKS:
  - 80mm INTERLOCKING BLOCKS:
  - JUNCTION BOX:

**AMENDMENTS**

NR.	DATE	APPROVED	DESCRIPTION	PAR.
A	JUNE 2018		ISSUED FOR APPROVAL	
B	AUG 2018		ISSUED FOR APPROVAL	

DESIGNED: M. RAMONGANE	DRAWN: M. RAMONGANE
DESIGN CHECKED BY: F.J. VAN RENSBURG	INFRASTRUCTURE TECHNICAL INFORMATION MANAGEMENT
SIGNATURE: _____	DATE: _____

**PROJECT STATUS**

CONCEPT DRAWING   
 TENDER DRAWING   
 APPROVED CONSTRUCTION DRAWING   
 AS BUILT DRAWING

PROJECT ENGINEER (CONSULTANT):

F.J. VAN RENSBURG    2017 70172    DATE: \_\_\_\_\_

INITIALS AND SURNAME    SIGNATURE AND P. No.    DATE

INSPECTOR OF WORKS (CITY OF TSHWANE):

INITIALS AND SURNAME    SIGNATURE AND P. No.    DATE

**CONSULTANT DETAIL**

**ITOU**  
CONSULTING ENGINEERS

Unit 4, 6th Dimension    P.O. Box 15684, Lynn East, 0039  
14 Escaltonia Street    Tel: +27 12 548 0196  
Montana Park    Fax: +27 12 548 0298  
0182    email: info@itouco.co.za

**CITY OF TSHWANE**  
ROADS AND TRANSPORT DEPARTMENT

Mr Nava Pillay    Ms. L. V. Kegakwe-Pili  
Acting STRATEGIC EXECUTIVE    EXECUTIVE DIRECTOR  
DIRECTOR    P.O. BOX 1409    P.O. BOX 1409  
PRETORIA    PRETORIA    PRETORIA  
0001    0001

DRAWING APPROVED BY EXECUTIVE DIRECTOR  
Ms. L. V. Kegakwe-Pili

SIGNATURE: \_\_\_\_\_    DATE: \_\_\_\_\_

LOCATION OF PROJECT:

**MONTANA SPRUIT CHANNEL IMPROVEMENT: PHASE 1**

DESCRIPTION OF PROJECT:

**CULVERT CROSSING LAYOUT PLAN**

CONTRACT No.:	PROJECT No.:	
RTD01-2016/2017-TIDC18	1063K	
DATE:	SCALE:	ORIGINAL PAPER SIZE:
AUG 2018	1:200	A1
DRAWING NO.:	SHEET NO.:	REVISION:
1063K-05U01	1	

Q<sub>TOT</sub> (1:100) = 119 m<sup>3</sup>/s  
Q<sub>CULVERT</sub> (1:100) = 41.66 m<sup>3</sup>/s  
Q<sub>OVERFLOW</sub> (1:100) = 77.34 m<sup>3</sup>/s

Q<sub>TOT</sub> (1:50) = 100 m<sup>3</sup>/s  
Q<sub>CULVERT</sub> (1:50) = 42.19 m<sup>3</sup>/s  
Q<sub>OVERFLOW</sub> (1:50) = 57.81 m<sup>3</sup>/s

**LAYOUT PLAN**  
SCALE 1:200