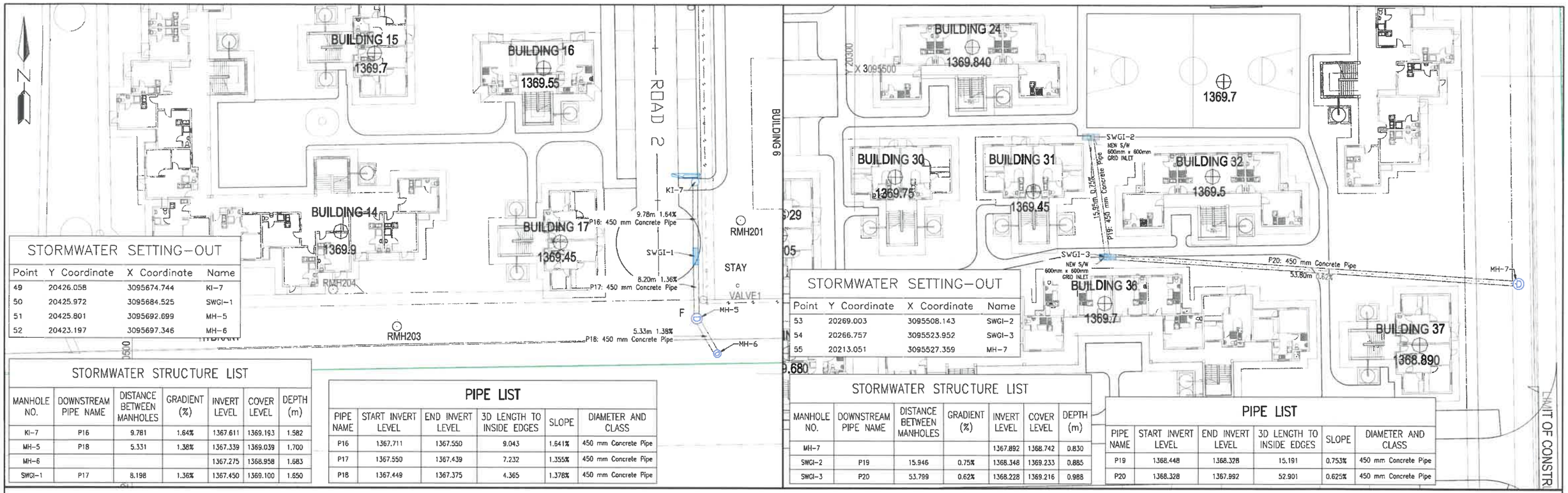


STORMWATER SETTING-OUT

Point	Y Coordinate	X Coordinate	Name
49	20426.058	3095674.744	KI-7
50	20425.972	3095684.525	SWGI-1
51	20425.801	3095692.699	MH-5
52	20423.197	3095697.346	MH-6

STORMWATER STRUCTURE LIST

MANHOLE NO.	DOWNSTREAM PIPE NAME	DISTANCE BETWEEN MANHOLES	GRADIENT (%)	INVERT LEVEL	COVER LEVEL	DEPTH (m)
KI-7	P16	9.781	1.64%	1367.611	1369.193	1.582
MH-5	P18	5.331	1.38%	1367.339	1369.039	1.700
MH-6				1367.275	1368.958	1.683
SWGI-1	P17	8.198	1.36%	1367.450	1369.100	1.650

PIPE LIST

PIPE NAME	START INVERT LEVEL	END INVERT LEVEL	3D LENGTH TO INSIDE EDGES	SLOPE	DIAMETER AND CLASS
P16	1367.711	1367.550	9.043	1.641%	450 mm Concrete Pipe
P17	1367.550	1367.439	7.232	1.355%	450 mm Concrete Pipe
P18	1367.449	1367.375	4.365	1.378%	450 mm Concrete Pipe

STORMWATER SETTING-OUT

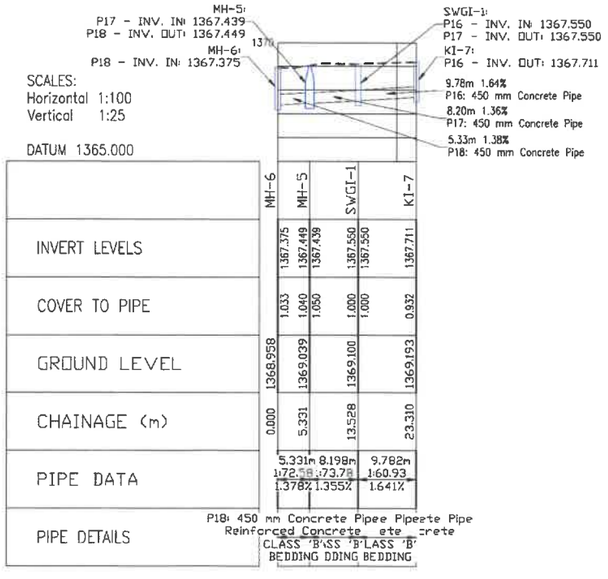
Point	Y Coordinate	X Coordinate	Name
53	20269.003	3095508.143	SWGI-2
54	20266.757	3095523.952	SWGI-3
55	20213.051	3095527.359	MH-7

STORMWATER STRUCTURE LIST

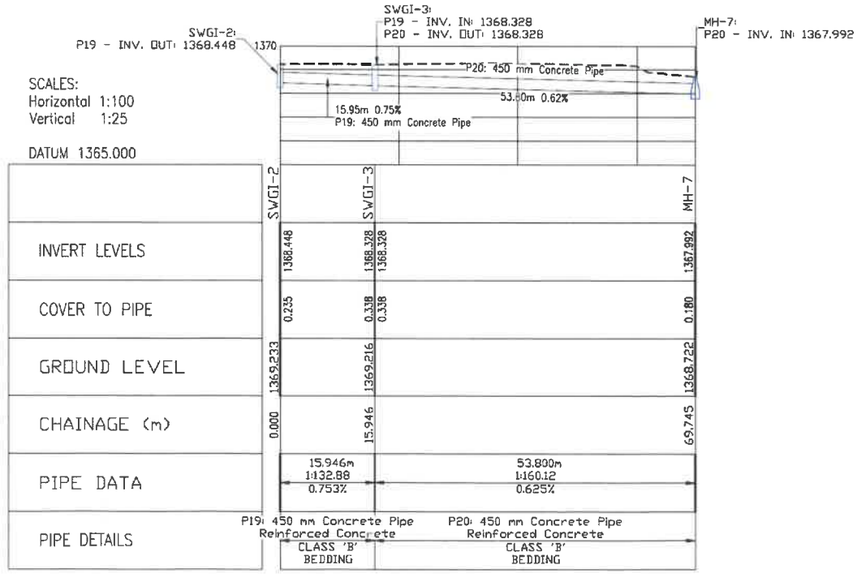
MANHOLE NO.	DOWNSTREAM PIPE NAME	DISTANCE BETWEEN MANHOLES	GRADIENT (%)	INVERT LEVEL	COVER LEVEL	DEPTH (m)
MH-7				1367.892	1368.742	0.830
SWGI-2	P19	15.946	0.75%	1368.348	1369.233	0.885
SWGI-3	P20	53.799	0.62%	1368.228	1369.216	0.988

PIPE LIST

PIPE NAME	START INVERT LEVEL	END INVERT LEVEL	3D LENGTH TO INSIDE EDGES	SLOPE	DIAMETER AND CLASS
P19	1368.448	1368.328	15.191	0.753%	450 mm Concrete Pipe
P20	1368.328	1367.992	52.901	0.625%	450 mm Concrete Pipe



STORMWATER LONGSECTION
KI-7 TO MH-6



STORMWATER LONGSECTION
SWGI-2 TO MH-7

GENERAL NOTES:

1. ALL WORK IS TO BE DEGREE OF ACCURACY II UNLESS OTHERWISE SHOWN.
2. ALL TESTING IS TO BE IN ACCORDANCE WITH CLAUSE 7 OF THE RELEVANT CODE UNLESS REPLACED BY A MUNICIPAL TESTING REQUIREMENT.
3. THE CONTRACTOR IS TO PROTECT EXISTING BOUNDARY STRUCTURES AND BURIED SERVICES.
4. INSPECTIONS SUBJECT TO THE AVAILABILITY OF MUNICIPAL REPRESENTATIVES.
5. TWO BENCHMARKS ARE TO BE ESTABLISHED BY AN INDEPENDENT ENGINEERING SURVEYOR AND THE POSITIONS THEREOF FORWARDED TO LTE CONSULTING ENGINEERS.
6. TIE-IN LEVELS ARE TO BE CONFIRMED PRIOR TO CONSTRUCTION.

Drg. No.	Description	REV	Description	BY	Chk'd	Eng	Date
Reference Drawings		3	ISSUED FOR CONSTRUCTION	ES	BN	KM	21-10-2019
		Revision History					

CLIENT:
FREE STATE PROVINCIAL GOVERNMENT
DEPARTMENT OF HUMAN SETTLEMENT

Physical Address	Postal Address
Free State Department of Human Settlement Lebohang Building St Andrew Street Bloemfontein 9301	P. O Box 211 Bloemfontein 9300

LTE CONSULTING

Physical Address	Postal Address
LTE House Building 1 Office Park (Belvedere Place) 5 Eglin Road, Sunning Hill 2157 Tel: +27 (0) 11 061 5700 Fax: +27 (0) 11 061 5773	Postnet Suite No. 326 Private Bag X26 Sunninghill 2157

APPROVED BY:
K. MUDZAMIRI
PROF. REGISTRATION:
20137022
DATE: 08/06/2020

APPROVED	K. MUDZAMIRI	21-10-2019
ENGINEER	K. MUDZAMIRI	21-10-2019
CHECKED	B. NDLOVU	21-10-2019
DRAWN	E. SWANEPOEL	21-10-2019
Scale: 1:250	Name	Signed / Date

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Project Name:
G-HOSTEL HOUSING DEVELOPMENT

Project Number: E405

Client Drawing No.

Rev

Drawing Title:
STORMWATER LAYOUT, LONGSECTIONS AND SETTING OUT DETAILS

LTE Drawing No.
E405-SW-LP-02
(SHEET 1 OF 1)

Rev 3