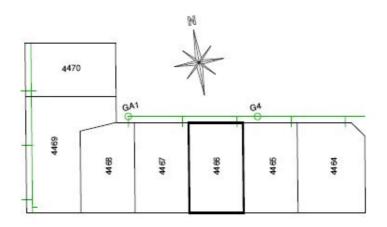
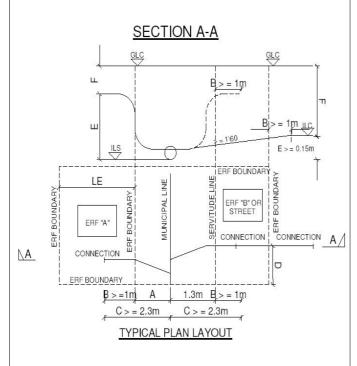
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township <u>ERF 2661 PARSONS VLEI</u> Erf No. <u>4447</u>

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	200.691	m
GLC	=	200.7	m
ILC	=	199.7	m
ILS	=	198.936	m
E(ILC-ILS)	=	0.764	m
F(GLC-ILC	=	1.000	m
MFL	=	200.691	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

suiting Engineer ivi etem

Signature of Prof. Eng.

M. Stemmett

M. D. E.

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

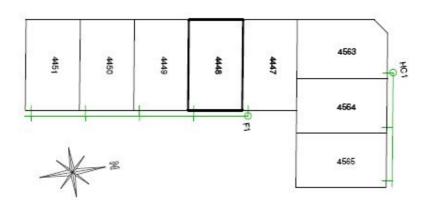
73 Heugh Road PO Box 13867 Humewood



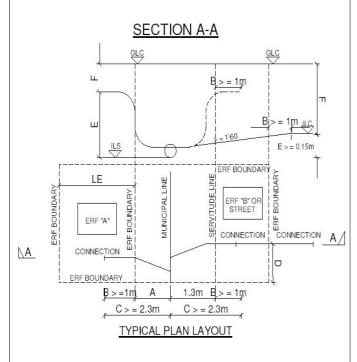
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	200.364	m
GLC	=	200.391	m
ILC	=	199.39	m
ILS	=	198.665	m
E(ILC-ILS)	=	0.725	m
F(GLC-ILC	=	1.001	m
MFL	=	200.364	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

Erf No. 4448

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

Date

23 May 2008

Prof. registration no

<u>950143</u>

ENGINEERING ADVICE AND SERVICES

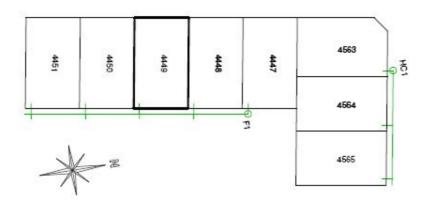
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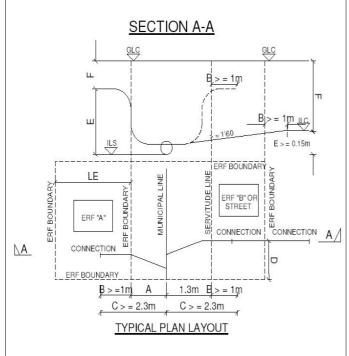
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI Erf No. 4449

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	199.895	m
GLC	=	199.941	m
ILC	=	198.821	m
ILS	=	198.395	m
E(ILC-ILS)	=	0.426	m
F(GLC-ILC	=	1.120	m
MFL	=	199.895	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

6.0

Signature of Prof. Eng.

M. Stemmett

M. Stemmett

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

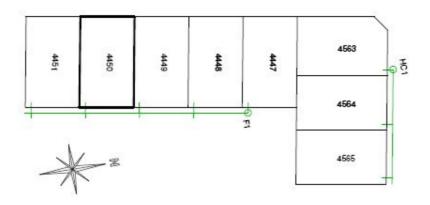
73 Heugh Road PO Box 13867 Humewood



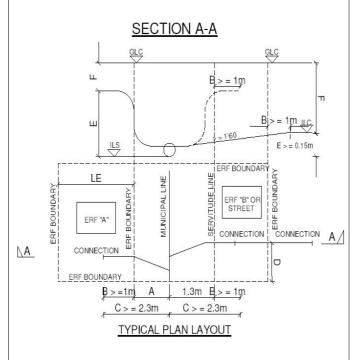
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township **ERF 2661 PARSONS VLEI**

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	199.401	m
GLC	=	199.448	m
ILC	=	198.481	m
ILS	=	198.11	m
E(ILC-ILS)	=	0.371	m
F(GLC-ILC	=	0.967	m
MFL	=	199.401	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

Erf No. 4450

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

Date 23 May 2008

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

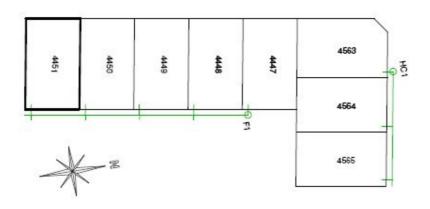
73 Heugh Road PO Box 13867 Humewood



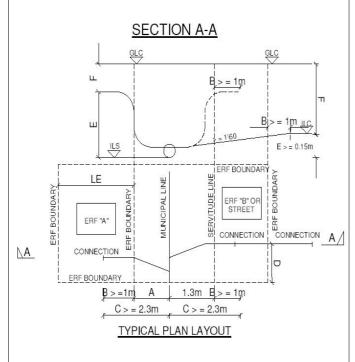
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township **ERF 2661 PARSONS VLEI** Erf No. 4451

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	199.075	m
GLC	=	199.06	m
ILC	=	198.143	m
ILS	=	197.851	m
E(ILC-ILS)	=	0.292	m
F(GLC-ILC	=	0.917	m
MFL	=	199.075	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

M. Stemmett

Signature of Prof. Eng.

Date

23 May 2008

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

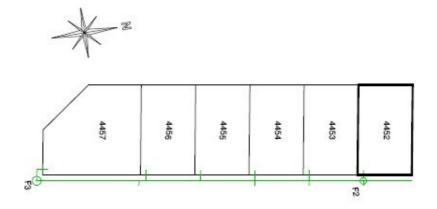
73 Heugh Road PO Box 13867 Humewood



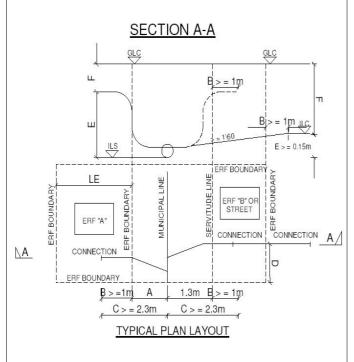
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI Erf No. 4452

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.89	m
GLC	=	198.8	m
ILC	=	197.91	m
ILS	=	197.581	m
E(ILC-ILS)	=	0.329	m
F(GLC-ILC	=	0.890	m
MFL	=	198.89	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

M. Stemmett

Signature of Prof. Eng.

MADPE

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

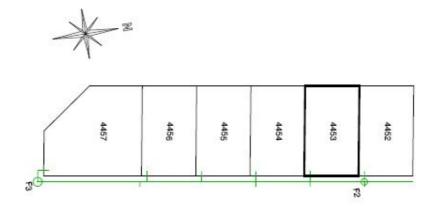
73 Heugh Road PO Box 13867 Humewood



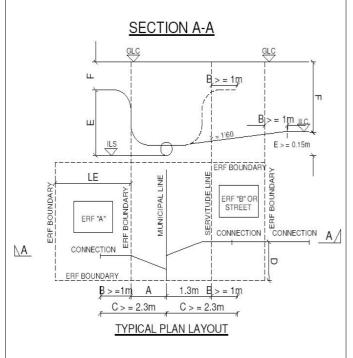
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township **ERF 2661 PARSONS VLEI** Erf No. 4453

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	199	m
GLC	=	198.98	m
ILC	=	198.059	m
ILS	=	197.456	m
E(ILC-ILS)	=	0.603	m
F(GLC-ILC	=	0.921	m
MFL	=	199	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

M. Stemmett

Signature of Prof. Eng.

Prof. registration no

Date

23 May 2008

950143

ENGINEERING ADVICE AND SERVICES

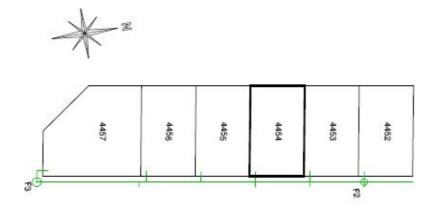
73 Heugh Road PO Box 13867 Humewood



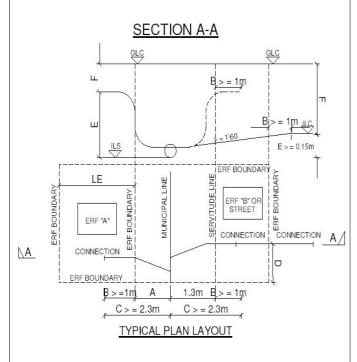
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township **ERF 2661 PARSONS VLEI** Erf No. 4454

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.843	m
GLC	=	198.885	m
ILC	=	197.963	m
ILS	=	197.325	m
E(ILC-ILS)	=	0.638	m
F(GLC-ILC	=	0.922	m
MFL	=	198.843	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

M. Stemmett

Signature of Prof. Eng.

Prof. registration no

Date

23 May 2008

950143

ENGINEERING ADVICE AND SERVICES

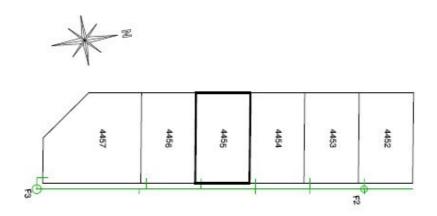
73 Heugh Road PO Box 13867 Humewood



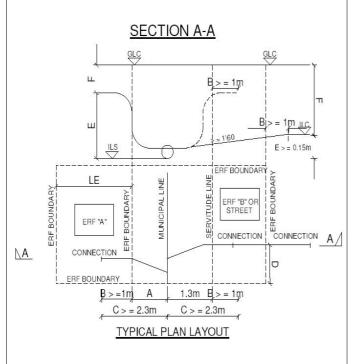
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township **ERF 2661 PARSONS VLEI** Erf No. 4455

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.786	m
GLC	=	198.79	m
ILC	=	197.981	m
ILS	=	197.21	m
E(ILC-ILS)	=	0.771	m
F(GLC-ILC	=	0.809	m
MFL	=	198.786	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

M. Stemmett

Signature of Prof. Eng.

Prof. registration no

Date

23 May 2008

950143

ENGINEERING ADVICE AND SERVICES

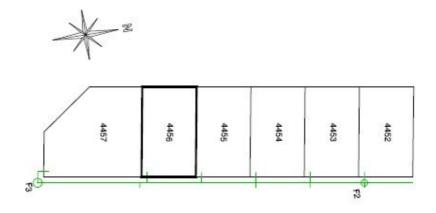
73 Heugh Road PO Box 13867 Humewood



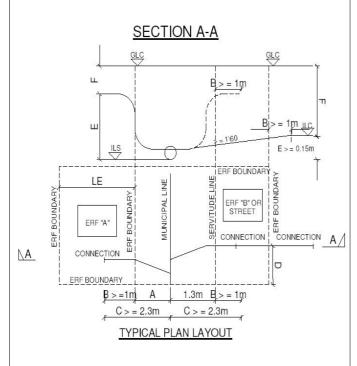
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township <u>ERF 2661 PARSONS VLEI</u> Erf No. <u>4456</u>

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.737	m
GLC	=	198.75	m
ILC	=	197.796	m
ILS	=	197.088	m
E(ILC-ILS)	=	0.708	m
F(GLC-ILC	=	0.954	m
MFL	=	198.737	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

ineer M. Stemmett

Signature of Prof. Eng.

MLPPEy

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

73 Heugh Road PO Box 13867 Humewood

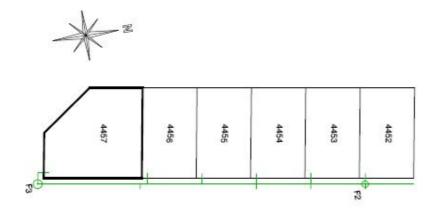


INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

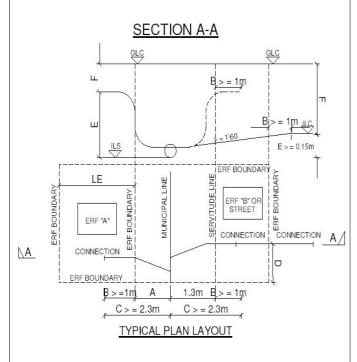
Township **ERF 2661 PARSONS VLEI**

Date constructed 23 May 2008

Erf No. 4457



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.586	m
GLC	=	198.601	m
ILC	=	197.618	m
ILS	=	196.845	m
E(ILC-ILS)	=	0.773	m
F(GLC-ILC	=	0.983	m
MFL	=	198.586	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

M. Stemmett

Signature of Prof. Eng.

Prof. registration no

Date

23 May 2008

950143

ENGINEERING ADVICE AND SERVICES

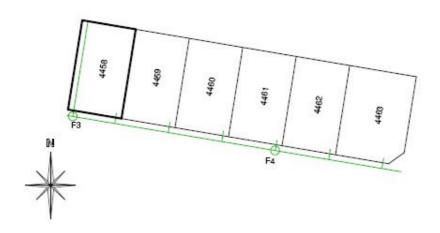
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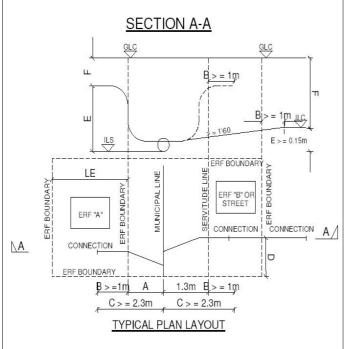
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.515	m
GLC	=	198.462	m
ILC	=	197.517	m
ILS	=	196.751	m
E(ILC-ILS)	=	0.766	m
F(GLC-ILC	=	0.945	m
MFL	=	198.515	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

Erf No. 4458

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

M. D. E.

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

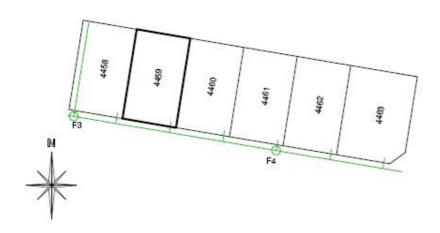
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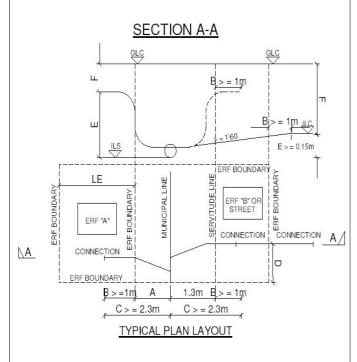
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI Erf No. 4459

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.406	m
GLC	=	198.409	m
ILC	=	197.503	m
ILS	=	196.634	m
E(ILC-ILS)	=	0.869	m
F(GLC-ILC	=	0.906	m
MFL	=	198.406	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Tisulting Engineer IVII Ctorius

Signature of Prof. Eng.

M. Stemmett

M. D. E.

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

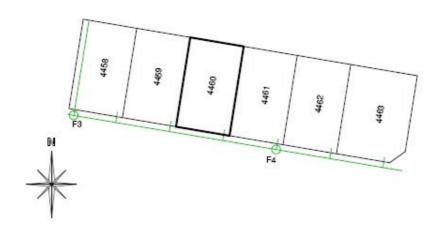
73 Heugh Road PO Box 13867 Humewood



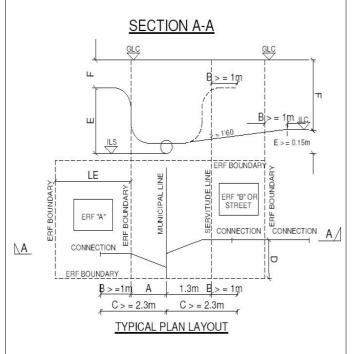
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3 r	n
В	=	1 r	n
С	=	2.3 r	n
D	=	1.3 r	n
MGL	=	198.365 r	n
GLC	=	198.386 r	n
ILC	=	197.393 r	n
ILS	=	196.506 r	n
E(ILC-ILS)	=	0.887 r	n
F(GLC-ILC	=	0.993 r	n
MFL	=	198.365 r	n
LE	=	32 r	n
ø Mun.Sewer	=	160 r	n
ø Connect	=	110 r	n

Erf No. 4460

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

M. D. E.

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

73 Heugh Road PO Box 13867 Humewood

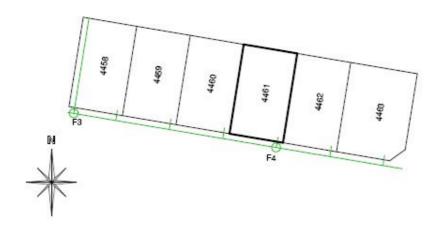


INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

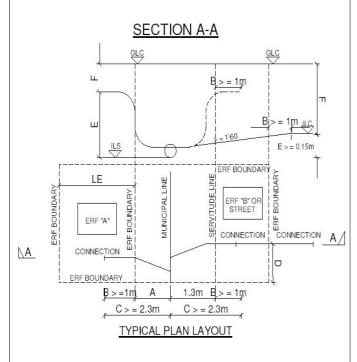
Township ERF 2661 PARSONS VLEI

Date constructed 23 May 2008

Erf No. 4461



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.47	m
GLC	=	198.502	m
ILC	=	197.498	m
ILS	=	196.393	m
E(ILC-ILS)	=	1.105	m
F(GLC-ILC	=	1.004	m
MFL	=	198.47	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

M. D. E.

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

73 Heugh Road PO Box 13867 Humewood

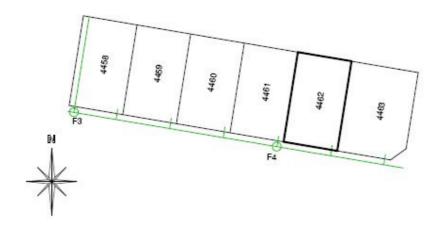


INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

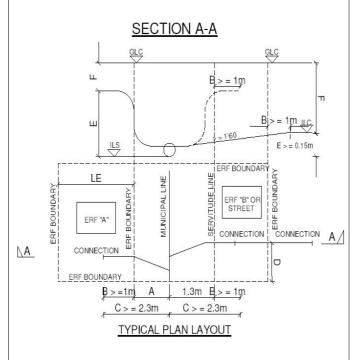
Township ERF 2661 PARSONS VLEI

Date constructed 23 May 2008

Erf No. 4462



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.213	m
GLC	=	198.231	m
ILC	=	197.227	m
ILS	=	196.173	m
E(ILC-ILS)	=	1.054	m
F(GLC-ILC	=	1.004	m
MFL	=	198.213	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

g. M. Stemmett

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

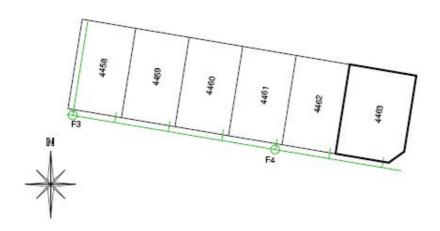
73 Heugh Road PO Box 13867 Humewood



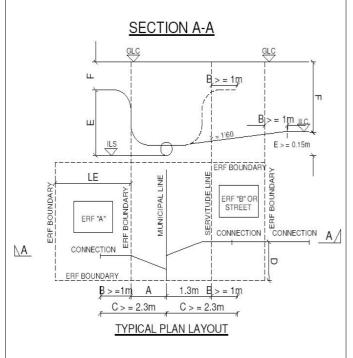
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.175	m
GLC	=	198.2	m
ILC	=	197.178	m
ILS	=	195.942	m
E(ILC-ILS)	=	1.236	m
F(GLC-ILC	=	1.022	m
MFL	=	198.175	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

Erf No. 4463

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

alting Engineer ivi eterni

Signature of Prof. Eng.

M. Stemmett

M. Stemmett

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

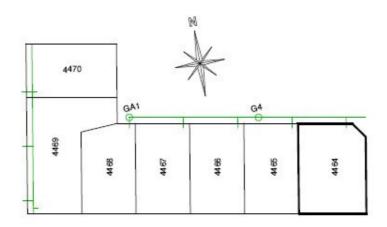
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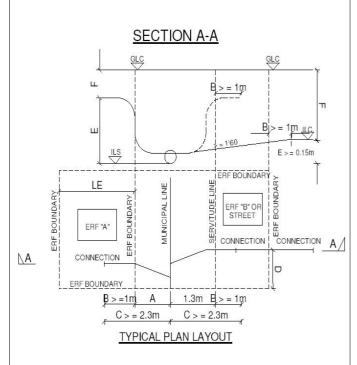
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.413	m
GLC	=	198.35	m
ILC	=	197.448	m
ILS	=	196.281	m
E(ILC-ILS)	=	1.167	m
F(GLC-ILC	=	0.902	m
MFL	=	198.413	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

Erf No. 4464

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Engineer M. Stemmett

Signature of Prof. Eng.

MLDPEg

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

73 Heugh Road PO Box 13867 Humewood

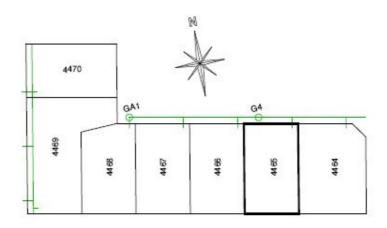


INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

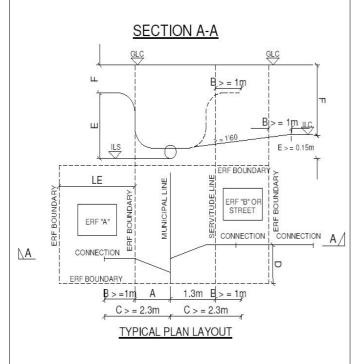
Township ERF 2661 PARSONS VLEI

Erf No. 4465

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.49	m
GLC	=	198.6	m
ILC	=	197.523	m
ILS	=	196.402	m
E(ILC-ILS)	=	1.121	m
F(GLC-ILC	=	1.077	m
MFL	=	198.49	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

M. Stemmett

Signature of Prof. Eng.

liple Eg

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

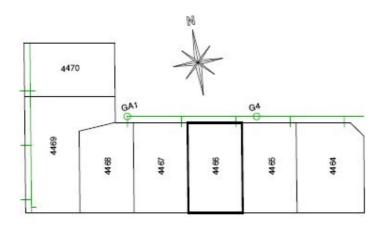
73 Heugh Road PO Box 13867 Humewood



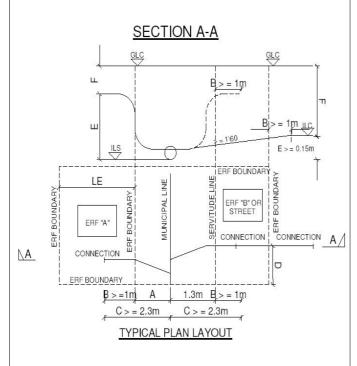
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township **ERF 2661 PARSONS VLEI** Erf No. 4466

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.473	m
GLC	=	198.602	m
ILC	=	197.5	m
ILS	=	197.278	m
E(ILC-ILS)	=	0.222	m
F(GLC-ILC	=	1.102	m
MFL	=	198.473	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

M. Stemmett

Signature of Prof. Eng.

Date

23 May 2008

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

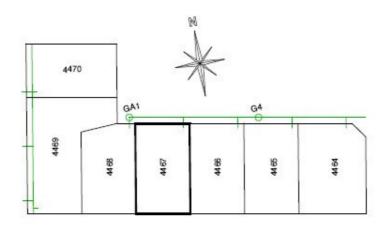
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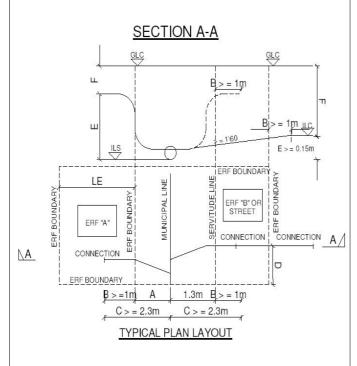
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township **ERF 2661 PARSONS VLEI**

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.476	m
GLC	=	198.5	m
ILC	=	197.506	m
ILS	=	197.402	m
E(ILC-ILS)	=	0.104	m
F(GLC-ILC	=	0.994	m
MFL	=	198.533	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

Erf No. 4467

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

M. Stemmett

Signature of Prof. Eng.

Date

23 May 2008

Prof. registration no

950143

ENGINEERING ADVICE AND SERVICES

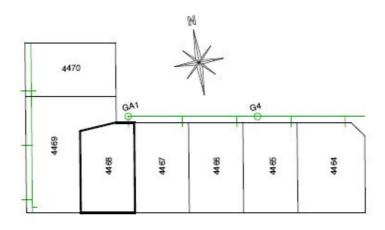
73 Heugh Road PO Box 13867 Humewood



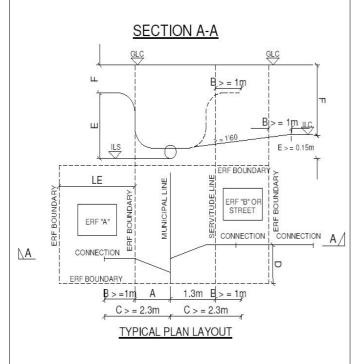
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township **ERF 2661 PARSONS VLEI** Erf No. 4468

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3 ו	m
В	=	1 ו	m
С	=	2.3 ı	m
D	=	1.3 ו	m
MGL	=	198.589 ו	m
GLC	=	198.502 ו	m
ILC	=	197.67	m
ILS	=	197.54 ו	m
E(ILC-ILS)	=	0.130	m
F(GLC-ILC	=	0.832 ı	m
MFL	=	198.655 ו	m
LE	=	32 1	m
ø Mun.Sewer	=	160 r	m
ø Connect	=	110 ו	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

M. Stemmett

Signature of Prof. Eng.

Prof. registration no

Date

23 May 2008

950143

ENGINEERING ADVICE AND SERVICES

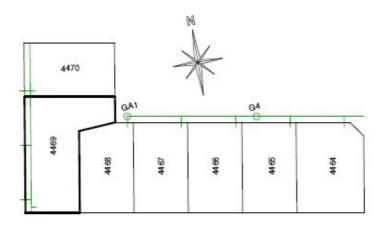
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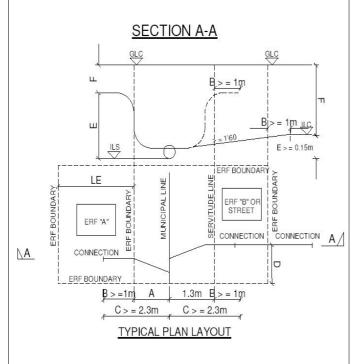
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	1	m
D	=	1.3	m
MGL	=	198.639	m
GLC	=	198.701	m
ILC	=	197.616	m
ILS	=	197.071	m
E(ILC-ILS)	=	0.545	m
F(GLC-ILC	=	1.085	m
MFL	=	198.639	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

Erf No. 4469

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

Date

23 May 2008

Prof. registration no

950143

ENGINEERING ADVICE AND SERVICES

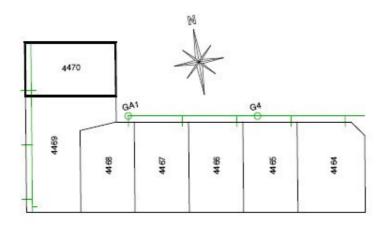
73 Heugh Road PO Box 13867 Humewood



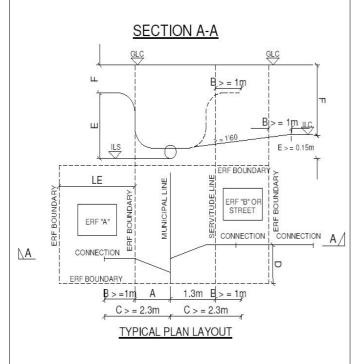
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township <u>ERF 2661 PARSONS VLEI</u> Erf No. <u>4470</u>

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	1	m
D	=	1.3	m
MGL	=	198.712	m
GLC	=	198.811	m
ILC	=	197.761	m
ILS	=	197.329	m
E(ILC-ILS)	=	0.432	m
F(GLC-ILC	=	1.050	m
MFL	=	198.712	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

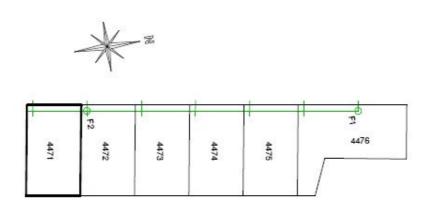
73 Heugh Road PO Box 13867 Humewood



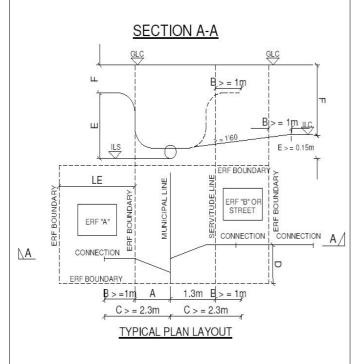
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	1	m
D	=	1.3	m
MGL	=	198.801	m
GLC	=	198.94	m
ILC	=	197.856	m
ILS	=	197.436	m
E(ILC-ILS)	=	0.420	m
F(GLC-ILC	=	1.084	m
MFL	=	198.801	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

Erf No. 4471

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

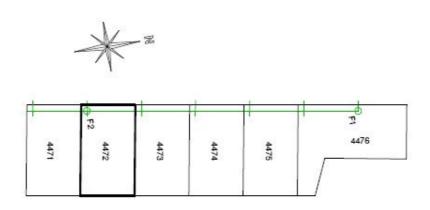
73 Heugh Road PO Box 13867 Humewood



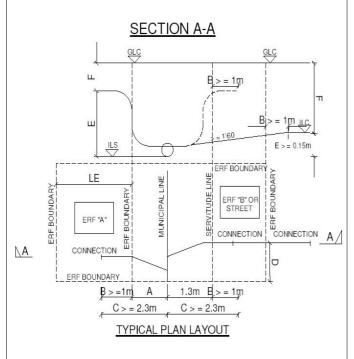
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	1	m
D	=	1.3	m
MGL	=	198.821	m
GLC	=	198.801	m
ILC	=	197.802	m
ILS	=	197.588	m
E(ILC-ILS)	=	0.214	m
F(GLC-ILC	=	0.999	m
MFL	=	198.821	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

Erf No. 4472

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

M. Stemmett

Signature of Prof. Eng.

MLDP. Eg

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

73 Heugh Road PO Box 13867 Humewood

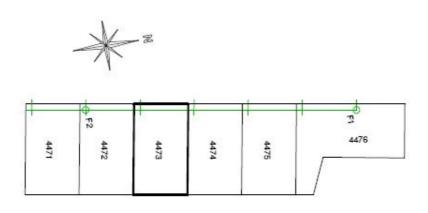


INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

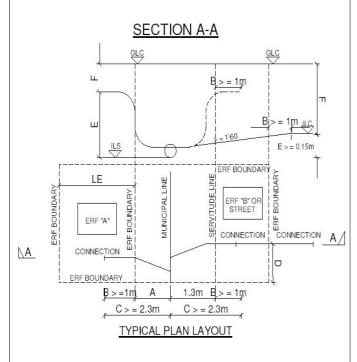
Township ERF 2661 PARSONS VLEI

Erf No. 4473

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	1	m
D	=	1.3	m
MGL	=	198.997	m
GLC	=	199.061	m
ILC	=	198.121	m
ILS	=	197.852	m
E(ILC-ILS)	=	0.269	m
F(GLC-ILC	=	0.940	m
MFL	=	198.997	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

M. Stemmett

Signature of Prof. Eng.

Prof.

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

73 Heugh Road PO Box 13867 Humewood

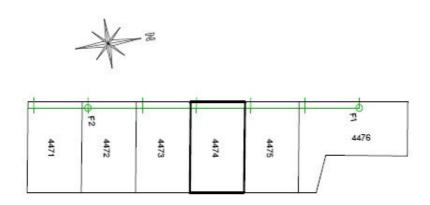


INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

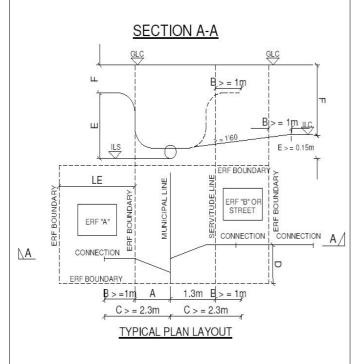
Township ERF 2661 PARSONS VLEI

Date constructed 23 May 2008

Erf No. <u>4474</u>



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	1	m
D	=	1.3	m
MGL	=	199.071	m
GLC	=	199.402	m
ILC	=	198.271	m
ILS	=	198.121	m
E(ILC-ILS)	=	0.150	m
F(GLC-ILC	=	1.131	m
MFL	=	199.204	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

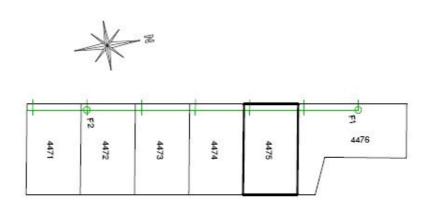
73 Heugh Road PO Box 13867 Humewood



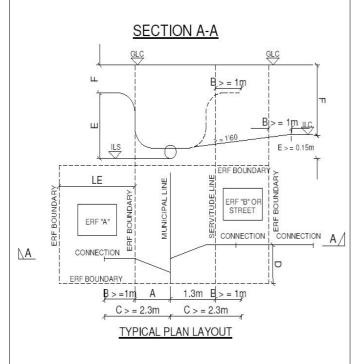
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI Erf No. 4475

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3 m
В	=	1 m
С	=	1 m
D	=	1.3 m
MGL	=	199.401 m
GLC	=	199.907 m
ILC	=	198.601 m
ILS	=	198.388 m
E(ILC-ILS)	=	0.213 m
F(GLC-ILC	=	1.306 m
MFL	=	199.473 m
LE	=	32 m
ø Mun.Sewer	=	160 m
ø Connect	=	110 m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

gineer M. Stemmett

Signature of Prof. Eng.

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

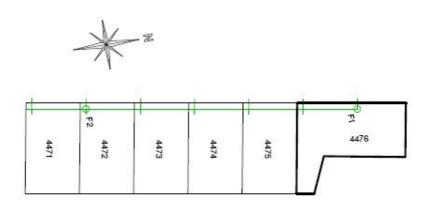
73 Heugh Road PO Box 13867 Humewood



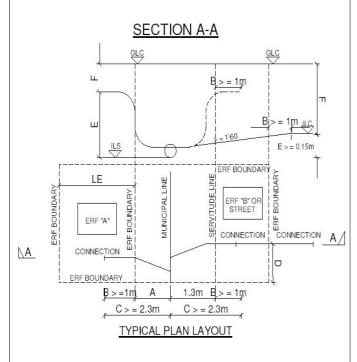
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI Erf No. 4476

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	1	m
D	=	1.3	m
MGL	=	199.82	m
GLC	=	199.802	m
ILC	=	198.89	m
ILS	=	198.663	m
E(ILC-ILS)	=	0.227	m
F(GLC-ILC	=	0.912	m
MFL	=	199.82	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

ig Engineer in Oton

Signature of Prof. Eng.

M. Stemmett

M. D. E.

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

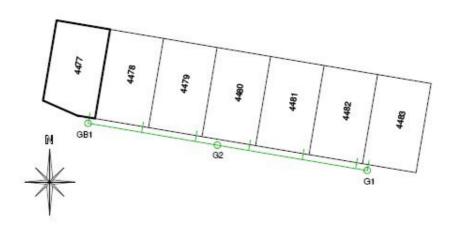
73 Heugh Road PO Box 13867 Humewood



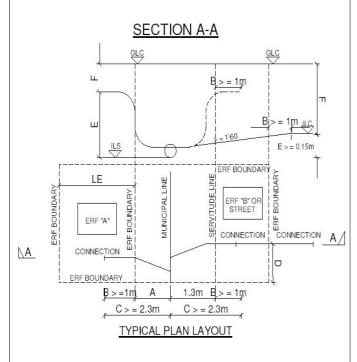
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township <u>ERF 2661 PARSONS VLEI</u> Erf No. <u>4477</u>

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	199.93	m
GLC	=	199.69	m
ILC	=	198.95	m
ILS	=	198.762	m
E(ILC-ILS)	=	0.188	m
F(GLC-ILC	=	0.740	m
MFL	=	199.93	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

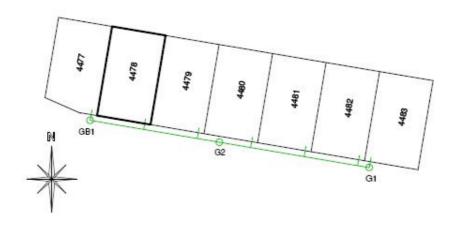
73 Heugh Road PO Box 13867 Humewood



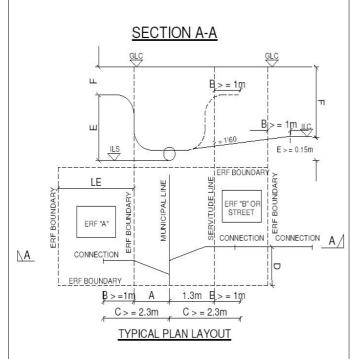
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township **ERF 2661 PARSONS VLEI** Erf No. 4478

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	199.792	m
GLC	=	199.84	m
ILC	=	198.822	m
ILS	=	198.59	m
E(ILC-ILS)	=	0.232	m
F(GLC-ILC	=	1.018	m
MFL	=	199.792	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

M. Stemmett

Signature of Prof. Eng.

Date

23 May 2008

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

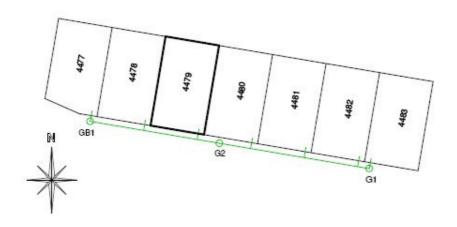
73 Heugh Road PO Box 13867 Humewood



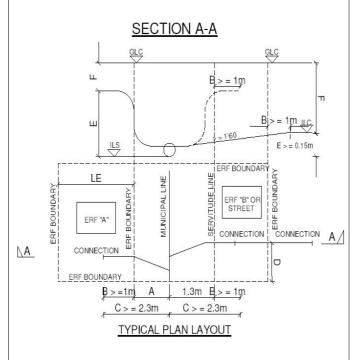
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township <u>ERF 2661 PARSONS VLEI</u> Erf No. <u>4479</u>

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	199.53	m
GLC	=	199.577	m
ILC	=	198.591	m
ILS	=	198.412	m
E(ILC-ILS)	=	0.179	m
F(GLC-ILC	=	0.986	m
MFL	=	199.556	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

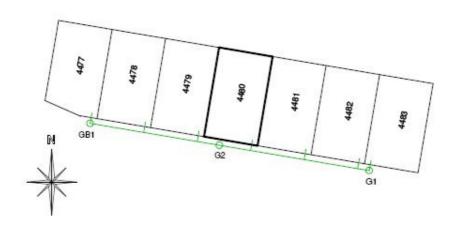
73 Heugh Road PO Box 13867 Humewood



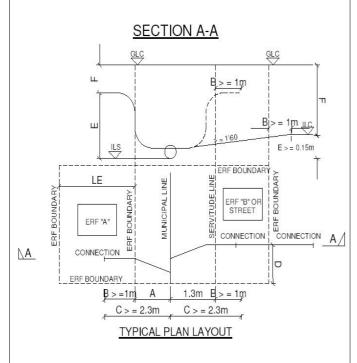
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI Erf No. 4480

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	199.344	m
GLC	=	199.38	m
ILC	=	198.361	m
ILS	=	197.721	m
E(ILC-ILS)	=	0.640	m
F(GLC-ILC	=	1.019	m
MFL	=	199.344	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

isating Engineer in Otermin

Signature of Prof. Eng.

M. Stemmett

M. Stemmett

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

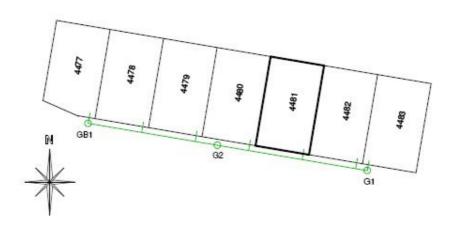
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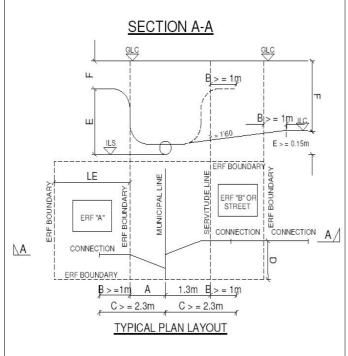
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township <u>ERF 2661 PARSONS VLEI</u> Erf No. <u>4481</u>

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	199.38	m
GLC	=	199.361	m
ILC	=	198.409	m
ILS	=	197.852	m
E(ILC-ILS)	=	0.557	m
F(GLC-ILC	=	0.952	m
MFL	=	199.38	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

23 May 2008

950143

Date

Signature of Prof. Eng. Prof. registration no

M. Stemmett

ENGINEERING ADVICE AND SERVICES

Consulting Engineer

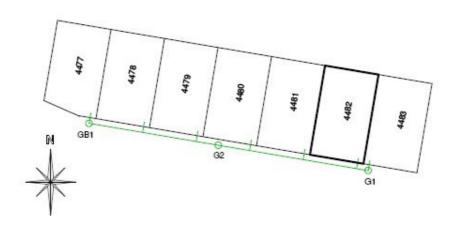
73 Heugh Road PO Box 13867 Humewood



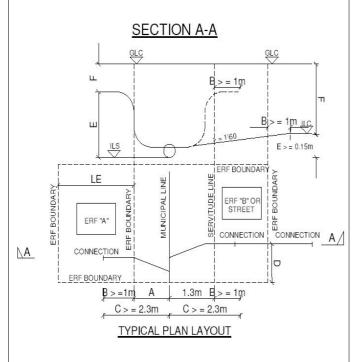
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI Erf No. 4482

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	199.323	m
GLC	=	199.331	m
ILC	=	198.306	m
ILS	=	197.96	m
E(ILC-ILS)	=	0.346	m
F(GLC-ILC	=	1.025	m
MFL	=	199.323	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

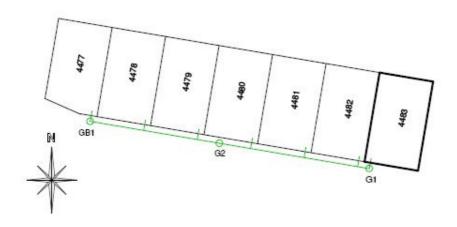
73 Heugh Road PO Box 13867 Humewood



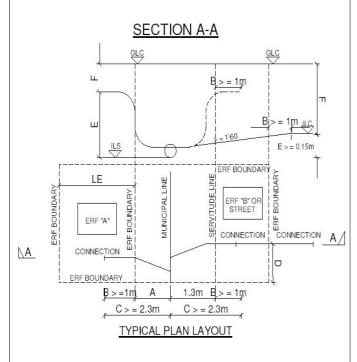
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township <u>ERF 2661 PARSONS VLEI</u> Erf No. <u>4483</u>

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	199.093	m
GLC	=	199.3	m
ILC	=	198.15	m
ILS	=	197.989	m
E(ILC-ILS)	=	0.161	m
F(GLC-ILC	=	1.150	m
MFL	=	199.123	m
LE	=	32	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

Date

23 May 2008

Prof. registration no

950143

ENGINEERING ADVICE AND SERVICES

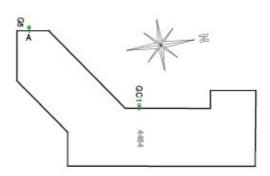
73 Heugh Road PO Box 13867 Humewood



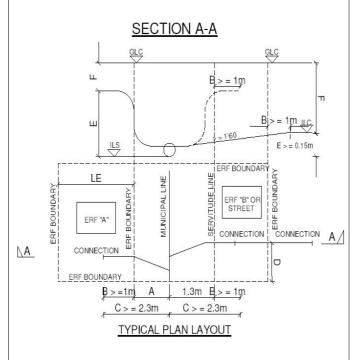
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township <u>ERF 2661 PARSONS VLEI</u> Erf No. <u>4484</u>

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.093	m
GLC	=	198.386	m
ILC	=	196.5	m
ILS	=	196.115	m
E(ILC-ILS)	=	0.385	m
F(GLC-ILC	=	1.886	m
MFL	=	198.093	m
LE	=	67	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

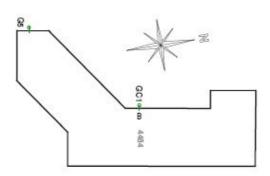
73 Heugh Road PO Box 13867 Humewood



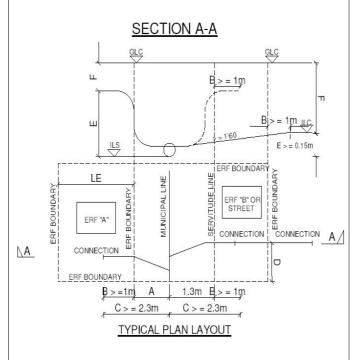
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township **ERF 2661 PARSONS VLEI** Erf No. 4484

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.469	m
GLC	=	198.5	m
ILC	=	197.802	m
ILS	=	197.744	m
E(ILC-ILS)	=	0.058	m
F(GLC-ILC	=	0.698	m
MFL	=	199.478	m
LE	=	67	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

Date 23 May 2008

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

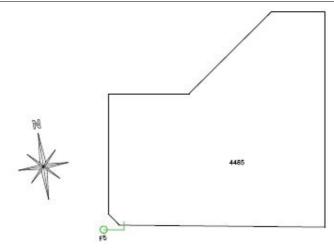
73 Heugh Road PO Box 13867 Humewood



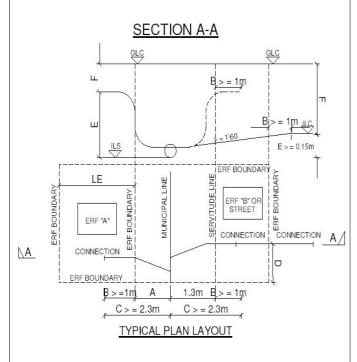
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI Erf No. 4485

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	197.918	m
GLC	=	198.196	m
ILC	=	196.14	m
ILS	=	195.576	m
E(ILC-ILS)	=	0.564	m
F(GLC-ILC	=	2.056	m
MFL	=	197.918	m
LE	=	80	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

eer <u>M. Stemmett</u>

Signature of Prof. Eng.

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

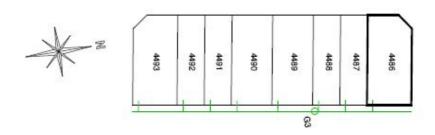
73 Heugh Road PO Box 13867 Humewood



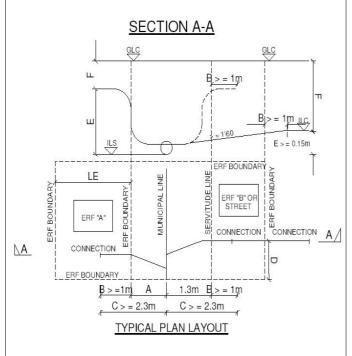
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township **ERF 2661 PARSONS VLEI** Erf No. 4486

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	199.02	m
GLC	=	199.052	m
ILC	=	198.269	m
ILS	=	197.256	m
E(ILC-ILS)	=	1.013	m
F(GLC-ILC	=	0.783	m
MFL	=	199.02	m
LE	=	20	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

M. Stemmett

Signature of Prof. Eng.

Prof. registration no

Date

23 May 2008

950143

ENGINEERING ADVICE AND SERVICES

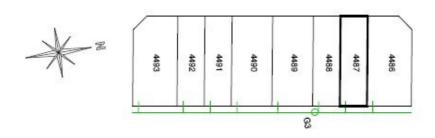
73 Heugh Road PO Box 13867 Humewood



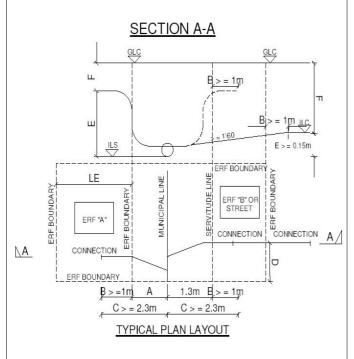
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI Erf No. 4487

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.91	m
GLC	=	198.938	m
ILC	=	198.126	m
ILS	=	197.123	m
E(ILC-ILS)	=	1.003	m
F(GLC-ILC	=	0.812	m
MFL	=	198.91	m
LE	=	20	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

Date

23 May 2008

Prof. registration no

<u>950143</u>

ENGINEERING ADVICE AND SERVICES

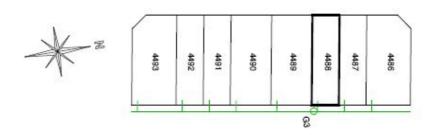
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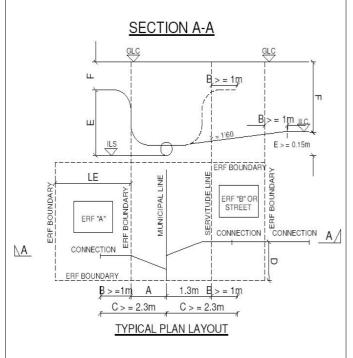
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI Erf No. 4488

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.853	m
GLC	=	198.861	m
ILC	=	198.07	m
ILS	=	196.982	m
E(ILC-ILS)	=	1.088	m
F(GLC-ILC	=	0.791	m
MFL	=	198.853	m
LE	=	20	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

23 May 2008

Consulting Engineer M. Stemmett Date

Signature of Prof. Eng. Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

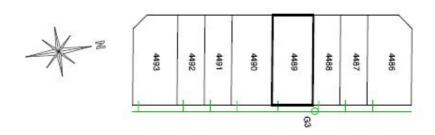
73 Heugh Road PO Box 13867 Humewood



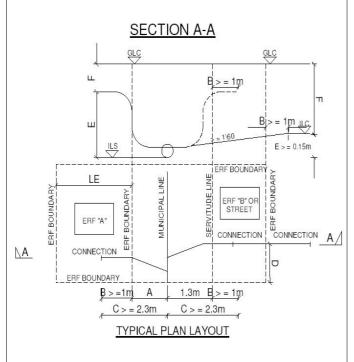
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township **ERF 2661 PARSONS VLEI** Erf No. 4489

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.79	m
GLC	=	198.799	m
ILC	=	198.012	m
ILS	=	196.88	m
E(ILC-ILS)	=	1.132	m
F(GLC-ILC	=	0.787	m
MFL	=	198.79	m
LE	=	20	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

M. Stemmett

Signature of Prof. Eng.

Prof. registration no

Date

23 May 2008

950143

ENGINEERING ADVICE AND SERVICES

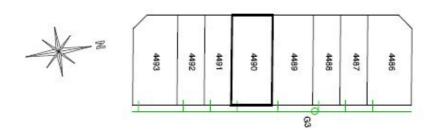
73 Heugh Road PO Box 13867 Humewood



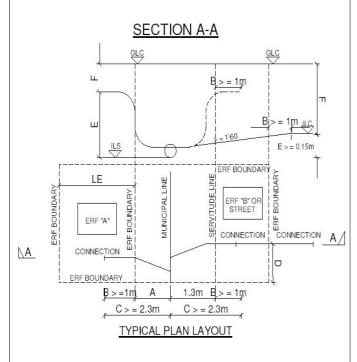
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township **ERF 2661 PARSONS VLEI** Erf No. 4490

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3 n	n
В	=	1 n	n
С	=	2.3 n	n
D	=	1.3 n	n
MGL	=	198.753 n	n
GLC	=	198.751 n	n
ILC	=	197.995 n	n
ILS	=	196.793 n	n
E(ILC-ILS)	=	1.202 n	n
F(GLC-ILC	=	0.756 n	n
MFL	=	198.753 n	n
LE	=	20 n	n
ø Mun.Sewer	=	160 n	n
ø Connect	=	110 n	n

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

M. Stemmett

Signature of Prof. Eng.

Date

23 May 2008

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

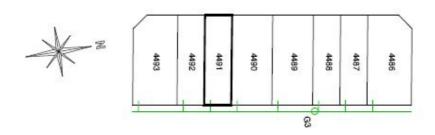
73 Heugh Road PO Box 13867 Humewood



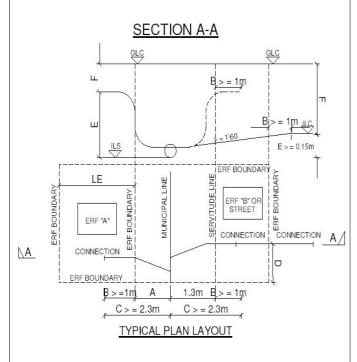
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI Erf No. 4491

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3 m
В	=	1 m
С	=	2.3 m
D	=	1.3 m
MGL	=	198.705 m
GLC	=	198.709 m
ILC	=	197.909 m
ILS	=	196.73 m
E(ILC-ILS)	=	1.179 m
F(GLC-ILC	=	0.800 m
MFL	=	198.705 m
LE	=	20 m
ø Mun.Sewer	=	160 m
ø Connect	=	110 m
		·

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

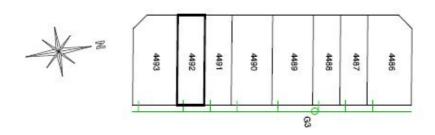
73 Heugh Road PO Box 13867 Humewood



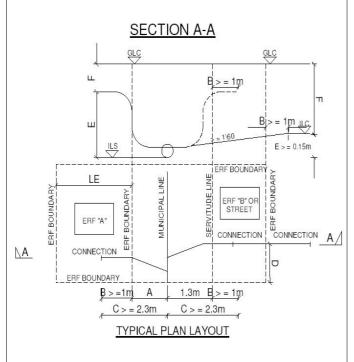
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI Erf No. 4492

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3 r	n
В	=	1 r	m
С	=	2.3 r	m
D	=	1.3 r	m
MGL	=	198.642 r	n
GLC	=	198.65 r	m
ILC	=	197.882 r	m
ILS	=	196.67 r	m
E(ILC-ILS)	=	1.212 r	m
F(GLC-ILC	; =	0.768 r	m
MFL	=	198.642 r	n
LE	=	20 r	n
ø Mun.Sev	ver =	160 r	m
ø Connect	=	110 r	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

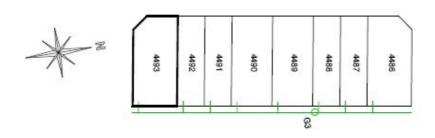
73 Heugh Road PO Box 13867 Humewood



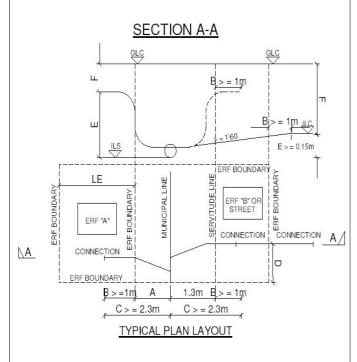
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township <u>ERF 2661 PARSONS VLEI</u> Erf No. <u>4493</u>

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.652	m
GLC	=	198.631	m
ILC	=	197.861	m
ILS	=	196.576	m
E(ILC-ILS)	=	1.285	m
F(GLC-ILC	=	0.770	m
MFL	=	198.652	m
LE	=	20	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

Mill Ge Prof. registrati

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

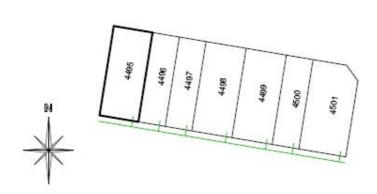
73 Heugh Road PO Box 13867 Humewood



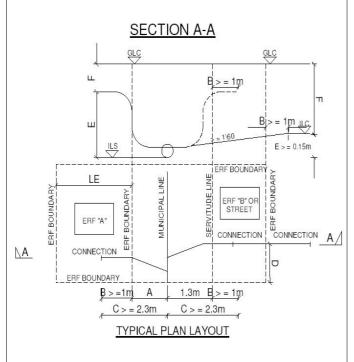
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI Erf No. 4495

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.78	m
GLC	=	198.761	m
ILC	=	198	m
ILS	=	197.14	m
E(ILC-ILS)	=	0.860	m
F(GLC-ILC	=	0.761	m
MFL	=	198.78	m
LE	=	20	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

M. Stemmett

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

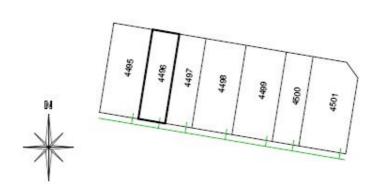
73 Heugh Road PO Box 13867 Humewood



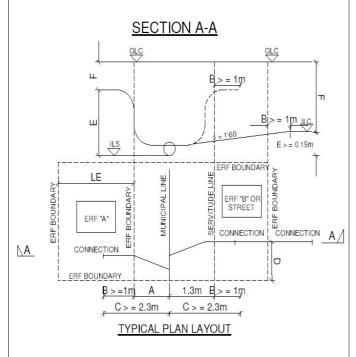
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township ERF 2661 PARSONS VLEI

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.781	m
GLC	=	198.761	m
ILC	=	198	m
ILS	=	197.199	m
E(ILC-ILS)	=	0.801	m
F(GLC-ILC	=	0.761	m
MFL	=	198.781	m
LE	=	20	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

Erf No. 4496

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett
M. D. E.

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

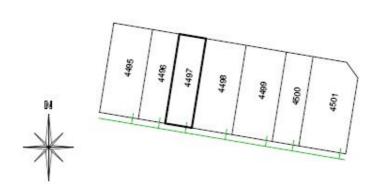
73 Heugh Road PO Box 13867 Humewood



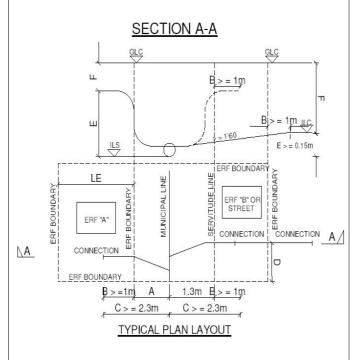
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township <u>ERF 2661 PARSONS VLEI</u> Erf No. <u>4497</u>

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3 m
В	=	1 m
С	=	2.3 m
D	=	1.3 m
MGL	=	198.79 m
GLC	=	198.789 m
ILC	=	198.001 m
ILS	=	197.259 m
E(ILC-ILS)	=	0.742 m
F(GLC-ILC	=	0.788 m
MFL	=	198.79 m
LE	=	20 m
ø Mun.Sewer	=	160 m
ø Connect	=	110 m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

M. Stemmett

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

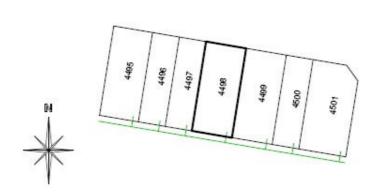
73 Heugh Road PO Box 13867 Humewood



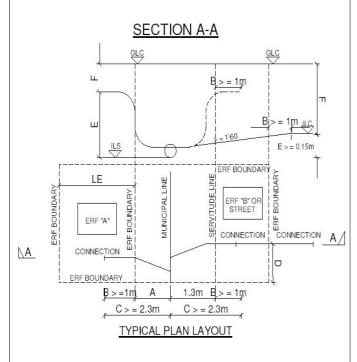
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township **ERF 2661 PARSONS VLEI** Erf No. 4498

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.807	m
GLC	=	198.756	m
ILC	=	198.026	m
ILS	=	197.35	m
E(ILC-ILS)	=	0.676	m
F(GLC-ILC	=	0.730	m
MFL	=	198.807	m
LE	=	20	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

Signature of Prof. Eng.

M. Stemmett

Date 23 May 2008

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

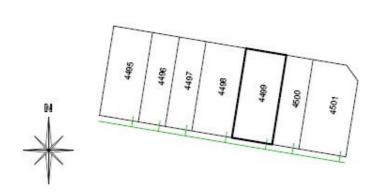
73 Heugh Road PO Box 13867 Humewood



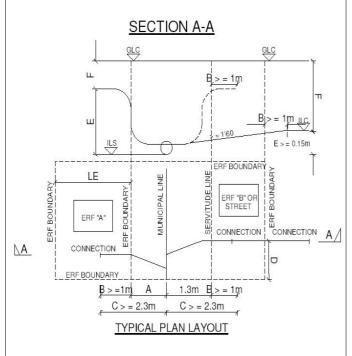
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township **ERF 2661 PARSONS VLEI** Erf No. 4499

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.784	m
GLC	=	198.751	m
ILC	=	197.995	m
ILS	=	197.435	m
E(ILC-ILS)	=	0.560	m
F(GLC-ILC	=	0.756	m
MFL	=	198.784	m
LE	=	20	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

M. Stemmett

Signature of Prof. Eng.

Date

23 May 2008

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

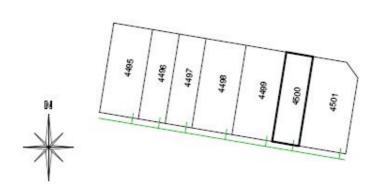
73 Heugh Road PO Box 13867 Humewood



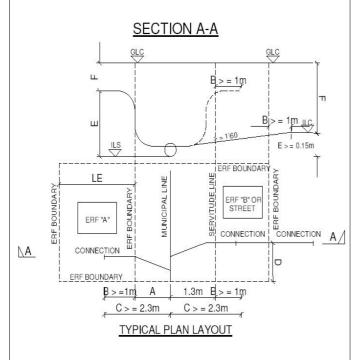
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township <u>ERF 2661 PARSONS VLEI</u> Erf No. <u>4500</u>

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.755	m
GLC	=	198.702	m
ILC	=	197.902	m
ILS	=	197.49	m
E(ILC-ILS)	=	0.412	m
F(GLC-ILC	=	0.800	m
MFL	=	198.755	m
LE	=	20	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

M. Stemmett

Signature of Prof. Eng.

MADP Ey

Date <u>23 May 2008</u>

Prof. registration no 950143

ENGINEERING ADVICE AND SERVICES

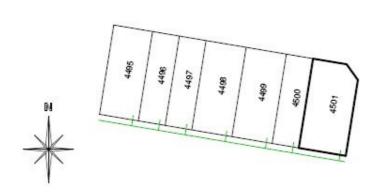
73 Heugh Road PO Box 13867 Humewood



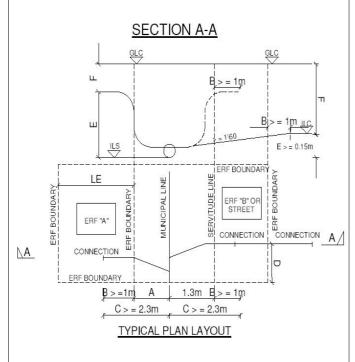
INFRASTRUCTURE ENGINEERING BUSINESS UNIT WASTEWATER CONVEYANCE SUB SILO

Township **ERF 2661 PARSONS VLEI** Erf No. 4501

Date constructed 23 May 2008



LAYOUT PLAN OF ERF, SEWER AND CONNECTION



Α	=	1.3	m
В	=	1	m
С	=	2.3	m
D	=	1.3	m
MGL	=	198.653	m
GLC	=	198.659	m
ILC	=	197.88	m
ILS	=	197.595	m
E(ILC-ILS)	=	0.285	m
F(GLC-ILC	=	0.779	m
MFL	=	198.653	m
LE	=	20	m
ø Mun.Sewer	=	160	m
ø Connect	=	110	m

ILC = Invert level of connection

ILS = Invert level - municipal sewer

MGL =Minimum ground level on erf

GLC = Ground level of erf connection

MFL = Minimum floor level of buildings on erf

Consulting Engineer

M. Stemmett

Signature of Prof. Eng.

Prof. registration no

Date

23 May 2008

950143

ENGINEERING ADVICE AND SERVICES

73 Heugh Road PO Box 13867 Humewood

