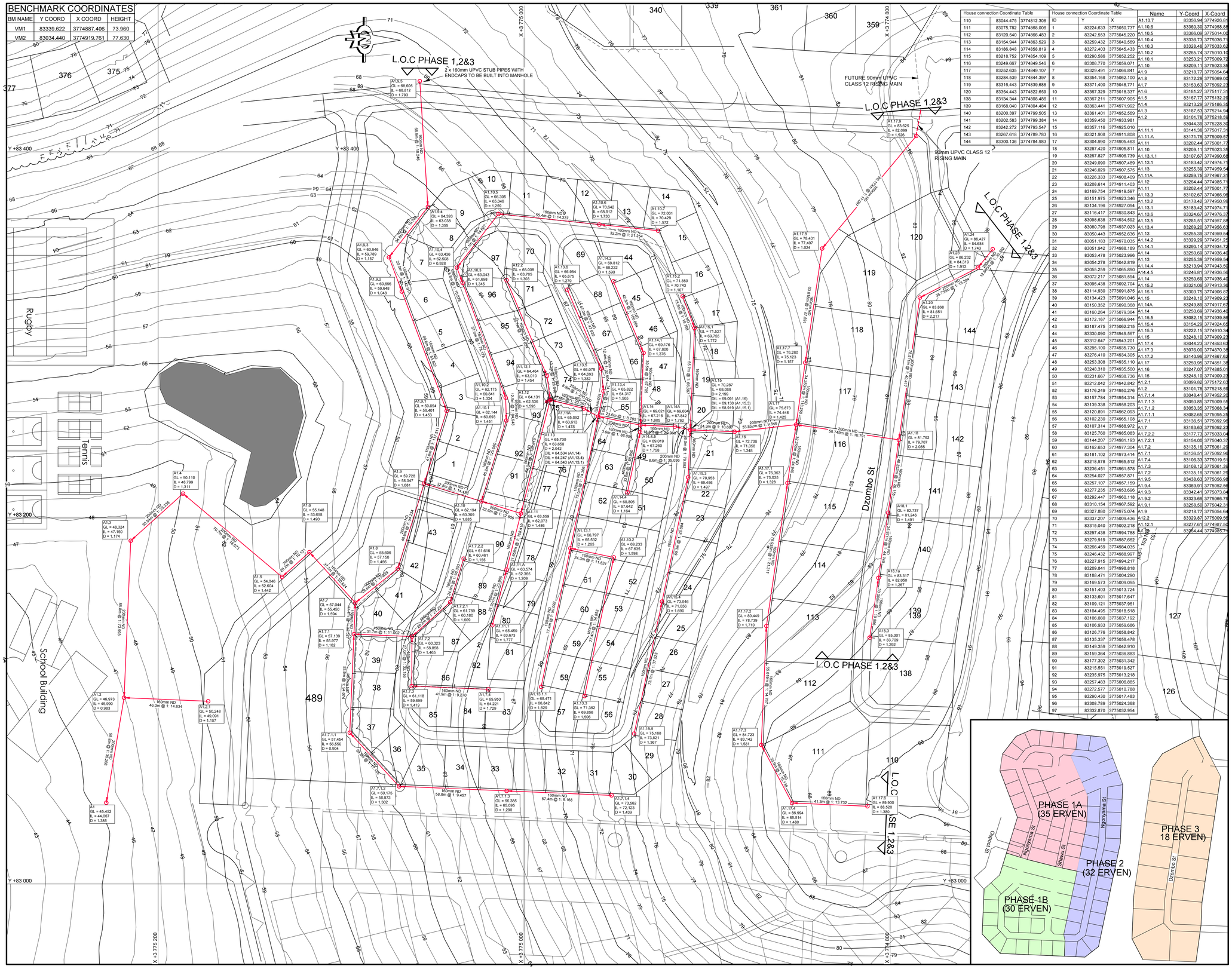

BENCHMARK COORDINATES

BM NAME	Y COORD	X COORD	HEIGHT
VM1	83339.622	3774887.406	73.960
VM2	83034.440	3774919.761	77.630

House connection Coordinate Table			
110	83044.475	3774812.308	A1.10.7
111	83075.782	3774868.006	A1.10.6
112	83120.540	3774866.483	A1.10.5
113	83154.944	3774863.529	A1.10.4
114	83186.848	3774858.819	A1.10.3
115	83218.752	3774854.109	A1.10.2
116	83249.667	3774849.546	A1.10.1
117	83252.635	3774840.107	A1.9
118	83284.539	3774844.397	A1.8
119	83316.443	3774839.688	A1.7
120	83354.443	3774822.659	A1.6
138	83134.344	3774808.486	A1.5
139	83168.040	3774804.484	A1.4
140	83200.397	3774799.505	A1.3
141	83202.583	3774799.384	A1.2
142	83242.272	3774793.547	A1.1
143	83267.618	3774789.783	A1.11.1
144	83300.136	3774784.983	A1.11.A

House connection Coordinate Table		
ID	Y	X
1	83224.633	3775050.737
2	83242.553	3775045.220
3	83259.432	3775040.569
4	83272.403	3775045.433
5	83290.586	3775052.252
6	83308.770	3775059.071
7	83329.491	3775058.841
8	83354.168	3775062.100
9	83371.400	3775048.771
10	83367.329	3775018.337
11	83367.211	3775007.905
12	83363.441	3774971.992
13	83361.401	3774952.569
14	83359.450	3774933.981
15	83357.116	3774925.010
16	83321.908	3774911.808
17	83304.990	3774905.463
18	83287.420	3774905.811
19	83267.827	3774906.739
20	83249.090	3774907.489
21	83246.029	3774907.575
22	83226.333	3774908.409
23	83208.614	3774911.403
24	83169.754	3774919.597
25	83151.975	3774923.346
26	83134.196	3774927.094
27	83116.417	3774930.843
28	83098.638	3774934.592
29	83080.798	3774937.023
30	83050.443	3774952.636
31	83051.183	3774970.035
32	83051.942	3774988.189
33	83053.478	3775023.996
34	83054.278	3775042.819
35	83055.259	3775065.890
36	83072.217	3775081.594
37	83095.438	3775092.704
38	83114.930	3775091.875
39	83134.423	3775091.046
40	83150.352	3775090.368
41	83160.264	3775079.364
42	83172.167	3775066.944
43	83187.475	3775062.215
44	83330.090	3774949.567
45	83312.647	3774943.201
46	83295.100	3774935.730
47	83276.410	3774934.305
48	83253.308	3774935.110
49	83248.310	3774935.500
50	83231.667	3774938.736
51	83212.042	3774942.842
52	83176.249	3774950.276
53	83157.784	3774954.314
54	83139.338	3774958.203
55	83120.891	3774962.093
56	83102.230	3774965.108
57	83107.314	3774988.972
58	83125.760	3774985.083
59	83144.207	3774981.193
60	83162.653	3774977.304
61	83181.102	3774973.414
62	83218.578	3774965.512
63	83236.451	3774961.578
64	83254.027	3774957.871
65	83257.107	3774957.159
66	83277.235	3774953.696
67	83292.447	3774950.118
68	83310.154	3774947.592
69	83327.880	3774975.074
70	83337.207	3775009.436
71	83315.040	3775002.218
72	83297.438	3774994.788
73	83279.919	3774987.662
74	83266.459	3774984.035
75	83246.432	3774988.997
76	83227.915	3774994.217
77	83209.841	3774998.818
78	83188.471	3775004.290
79	83169.573	3775009.095
80	83151.403	3775013.724
81	83133.601	3775017.647
82	83109.121	3775037.961
83	83104.495	3775018.518
84	83106.080	3775037.192
85	83106.933	3775059.686
86	83126.776	3775058.842
87	83135.337	3775058.478
88	83149.359	3775042.910
89	83159.364	3775036.883
90	83177.302	3775031.342
91	83215.551	3775019.527
92	83235.975	3775013.218
93	83257.483	3775006.885
94	83272.577	3775010.788
95	83290.430	3775017.483
96	83308.789	3775024.368
97	83332.870	3775032.954

Name	Y-Coord	X-Coord
A1.10.7	83356.94	3774926.81
A1.10.6	83360.30	3774958.88
A1.10.5	83366.09	3775014.00
A1.10.4	83336.73	3775036.74
A1.10.3	83328.48	3775033.62
A1.10.2	83265.74	3775010.10
A1.10.1	83253.21	3775009.75
A1.10	83209.11	3775023.35
A1.9	83218.77	3775054.64
A1.8	83172.29	3775069.03
A1.7	83153.63	3775092.23
A1.6	83181.27	3775117.31
A1.5	83167.77	3775132.23
A1.4	83213.29	3775186.35
A1.3	83187.53	3775214.94
A1.2	83101.78	3775218.59
	83044.39	3775228.30
A1.11.1	83141.38	3775017.31
A1.11.A	83171.76	3775009.57
A1.11	83202.44	3775001.77
A1.10	83209.11	3775023.35
A1.13.1.1	83107.67	3774990.65
A1.13.1	83183.42	3774974.71
A1.13	83255.39	3774959.54
A1.11A	83259.75	3774967.31
A1.12	83264.44	3774985.71
A1.11	83202.44	3775001.77
A1.13.3	83102.67	3774966.06
A1.13.2	83178.42	3774950.99
A1.13.1	83183.42	3774974.71
A1.13.6	83324.67	3774976.37
A1.13.5	83281.51	3774957.88
A1.13.4	83269.20	3774956.63
A1.13	83255.39	3774959.54
A1.14.2	83329.29	3774951.25
A1.14.1	83290.14	3774934.72
A1.14	83250.69	3774936.40
A1.13	83255.39	3774959.54
A1.14.4	83313.94	3774943.50
A14.4.5	83246.61	3774936.56
A1.14	83250.69	3774936.40
A1.15.2	83321.06	3774913.36
A1.15.1	83303.75	3774906.87
A1.15	83248.10	3774909.23
A1.14A	83249.89	3774917.63
A1.14	83250.69	3774936.40
A1.15.5	83082.15	3774939.86
A1.15.4	83154.29	3774924.65
A1.15.3	83222.15	3774910.34
A1.15	83248.10	3774909.23
A1.17.4	83044.23	3774853.63
A1.17.3	83076.00	3774870.38
A1.17.2	83140.96	3774867.62
A1.17	83250.95	3774851.38
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A1.7.1.4	83048.41	3774952.20
A1.7.1.3	83050.85	3775009.55
A1.7.1.2	83053.35	3775068.34
A1.7.1.1	83082.65	3775095.23
A1.7.1	83136.51	3775092.96
A1.7.2	83153.63	3775092.23
A1.7.2.2	83177.73	3775033.04
A1.7.2.1	83154.00	3775040.37
A1.7.2	83135.16	3775061.25
A1.7.1	83136.51	3775092.96
A1.9.1	83106.33	3775019.51
A1.9.4	83108.12	3775061.39
A1.9.3	83135.16	3775061.25
A1.9.2	83438.63	3775056.06
A1.9.1	83369.91	3775052.56
A1.9	83342.41	3775073.84
A1.9.2	83323.66	3775066.71
A1.9.1	83258.50	3775042.33
A1.9	83218.77	3775054.64
A12.2	83329.87	3775009.56
A12.1	83277.61	3774987.50
A1.12	83264.44	3774985.71
A1.13	83255.39	3774959.54
A1.12.1	83277.61	3774987.50
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A1.13.1	83183.42	3774974.71
A1.13.2	83178.42	3774950.99
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A1.13.5	83281.51	3774957.88
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A1.14.1	83290.14	3774934.72
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A1.15.2	83321.06	3774913.36
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A1.16	83247.07	3774885.01
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A1.17.3	83076.00	3774870.38
A1.17.4	83044.23	3774853.63
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A1.17.8	83082.65	3775095.23
A1.17.9	83136.51	3775092.96
A1.18	83153.63	3775092.23
A1.18.1	83177.73	3775033.04
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A1.18.3	83135.16	3775061.25
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A1.18.7	83135.16	3775061.25
A1.18.8	83438.63	3775056.06
A1.18.9	83369.91	3775052.56
A1.18.10	83342.41	3775073.84
A1.18.11	83323.66	3775066.71
A1.18.12	83258.50	3775042.33
A1.18.13	83218.77	3775054.64
A1.19	83329.87	3775009.56
A1.19.1	83277.61	3774987.50
A1.19	83264.44	3774985.71

FOR CONSTRUCTION

0 100

100 MILLIMETRES ON ORIGINAL DRAWING

(A) BEFORE CONTRACT COMMENCES

(A) AFTER CONTRACT HAS COMMENCED

NO	DATE	AMENDMENTS
A	11-06-2019	VARIOUS CHANGES
B	16-07-2019	LAYOUT CHANGE

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OUTENIQUASBOSCH
The Wildlife Village

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CESA Consulting Engineers South Africa

PROJECT
OUTENIQUASBOSCH - DEVELOPMENT OF PHASES 1-3

DRAWING DESCRIPTION
SEWER LAYOUT

DRAWING NO.
10408000-100 B

DESIGNED: DJK		CHECKED: DKJ	
DRAWN: LA		SCALE: 1 : 1000	A1
APPROVED:		DATE: 2019-01-24	

FILE PATH: P:\Hartenbos\10408000 Outeniquabosch M1645\05 Constr\Draw\10408000-100B.DR4