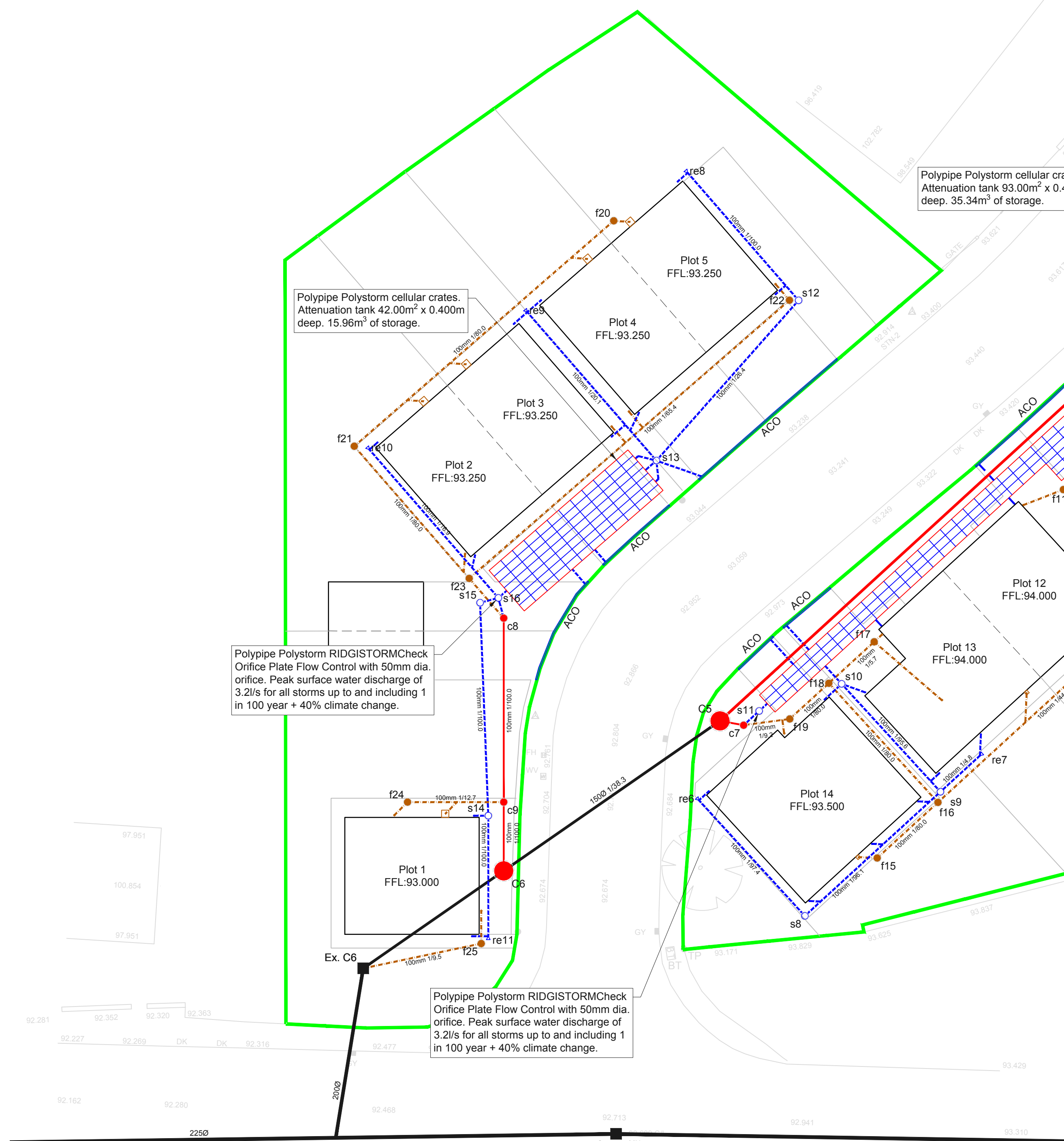
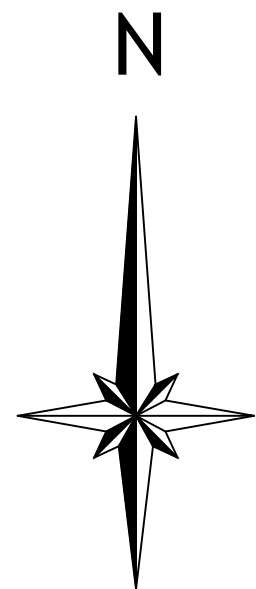




Polypipe Polystorm cellular crates.
Attenuation tank 42.00m² x 0.400m
deep. 15.96m³ of storage.

Polypipe Polystorm cellular crates.
Attenuation tank 93.00m² x 0.400m
deep. 35.34m³ of storage.

Polypipe Polystorm RIDGISTORM Check
Orifice Plate Flow Control with 50mm dia.
orifice. Peak surface water discharge of
3.2/s for all storms up to and including 1
in 100 year + 40% climate change.

Polypipe Polystorm RIDGISTORM Check
Orifice Plate Flow Control with 50mm dia.
orifice. Peak surface water discharge of
3.2/s for all storms up to and including 1
in 100 year + 40% climate change.

Foul Water Drainage Manhole Schedule												
Manhole Number	Cover Level (m)	Invert Level (m)	Major Pipe Diameter (mm)	Depth to Invert (m)	Manhole Type	Manhole Diameter (mm)	Manhole Cover		Pipe In		Pipe Out	
							Load Class	Size (mm) (l) x (w) x (d)	Invert Level (m)	Pipe Diameter (mm)	Invert Level (m)	Pipe Diameter (mm)
f1	95.350	94.750	100	0.600	PPC	450	A15	4500 x 40	94.750	100	94.750	100
f2	95.350	94.640	100	0.710	PPC	450	A15	4500 x 40	94.640	100	94.640	100
f3	95.350	94.750	100	0.600	PPC	450	B125	4500 x 40	94.750	100	94.750	100
f4	94.850	94.250	100	0.600	PPC	450	A15	4500 x 40	94.250	100	94.250	100
f5	94.850	94.159	100	0.691	PPC	450	A15	4500 x 40	94.159	100	94.159	100
f6	94.850	94.130	100	0.720	PPC	450	A15	4500 x 40	94.130	100	94.130	100
f7	94.850	94.031	100	0.819	PPC	450	A15	4500 x 40	94.031	100	94.031	100
f8	94.850	94.250	100	0.600	PPC	450	A15	4500 x 40	94.250	100	94.250	100
f9	94.350	93.750	100	0.600	PPC	450	B125	4500 x 40	93.750	100	93.750	100
f10	94.350	93.672	100	0.678	PPC	450	B125	4500 x 40	93.672	100	93.672	100
f11	93.850	93.250	100	0.600	PPC	450	B125	4500 x 40	93.250	100	93.250	100
f12	94.350	93.750	100	0.600	PPC	450	A15	4500 x 40	93.750	100	93.750	100
f13	93.850	93.250	100	0.600	PPC	450	A15	4500 x 40	93.250	100	93.250	100
f14	93.850	93.131	100	0.719	PPC	450	A15	4500 x 40	93.131	100	93.131	100
f15	93.350	92.750	100	0.600	PPC	450	A15	4500 x 40	92.750	100	92.750	100
f16	93.350	92.683	100	0.667	PPC	450	A15	4500 x 40	92.683	100	92.683	100
f17	93.850	93.250	100	0.600	PPC	450	B125	4500 x 40	93.250	100	93.250	100
f18	93.350	92.551	100	0.799	PPC	450	B125	4500 x 40	92.551	100	92.551	100
f19	93.350	92.508	100	0.842	PPC	450	B125	4500 x 40	92.508	100	92.508	100
f20	93.350	92.177	100	1.173	PPC	450	B125	4500 x 40	92.177	100	92.177	100
f21	93.100	92.500	100	0.600	PPC	450	A15	4500 x 40	92.500	100	92.500	100
f22	93.100	92.219	100	0.881	PPC	450	A15	4500 x 40	92.219	100	92.219	100
f23	93.100	92.500	100	0.600	PPC	450	A15	4500 x 40	92.500	100	92.500	100
f24	93.100	92.076	100	1.024	PPC	450	B125	4500 x 40	92.076	100	92.076	100
f25	93.100	91.878	100	1.222	PPC	450	B125	4500 x 40	91.878	100	91.878	100
f26	92.850	92.250	100	0.600	PPC	450	A15	4500 x 40	92.250	100	92.250	100
f27	92.850	91.757	100	1.093	PPC	450	A15	4500 x 40	91.757	100	91.757	100
f28	92.850	92.250	100	0.600	PPC	450	A15	4500 x 40	92.250	100	92.250	100

Foul Water Drainage Pipe Line Schedule						
Pipe Reference	Upstream I.L.	Downstream I.L.	Pipe Diameter	Distance	Pipe Gradient (1 in x)	Pipe Material
f1 - f2	94.750	94.640	100	8.770	80.0	Plastic
f2 - C1	94.640	94.050	100	5.010	8.5	Plastic
f3 - pipe run	94.750	93.651	100	3.340	3.0	Plastic
f4 - f5	94.250	94.159	100	7.260	80.0	Plastic
f5 - f6	94.159	94.130	100	2.310	80.0	Plastic
f6 - f7	94.130	94.031	100	7.970	80.0	Plastic
f7 - pipe run	94.031	91.128	100	1.290	0.4	Plastic
f8 - f9	94.250	93.175	100	1.590	1.5	Plastic
f9 - f10	93.750	93.672	100	6.250	80.0	Plastic
f10 - f11	93.672	93.250	100	14.780	35.0	Plastic
f11 - f14	93.250	93.131	100	9.540	80.0	Plastic
f12 - f13	93.750	93.250	100	8.550	17.1	Plastic
f13 - f14	93.250	93.131	100	1.910	16.0	Plastic
f14 - f16	93.131	92.683	100	19.840	44.3	Plastic
f15 - f16	92.750	92.683	100	5.380	80.0	Plastic
f16 - f18	92.683	92.551	100	10.550	80.0	Plastic
f17 - f18	93.250	92.551	100	4.010	5.7	Plastic
f18 - f19	92.551	92.508	100	3.460	80.0	Plastic
f19 - c7	92.508	92.177	100	3.040	9.2	Plastic
c7 - c5	92.177	92.161	100	1.570	100.0	Plastic
f20 - f21	92.500	92.219	100	22.450	80.0	Plastic
f21 - f23	92.219	92.076	100	11.440	80.0	Plastic
f22 - f23	92.500	92.076	100	27.700	65.4	Plastic
f23 - c8	92.076	91.878	100	3.440	17.3	Plastic
c8 - c9	91.878	91.757	100	12.020	100.0	Plastic
f24 - c9	92.250	91.757	100	6.280	12.7	Plastic
c9 - C6	91.757	91.712	100	4.500	100.0	Plastic
f25 - Ex C6	92.250	91.421	100	7.870	9.5	Plastic

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General Notes

1. Do not scale this drawing.
2. All dimensions are in millimeters unless stated otherwise.
3. This drawing is to be read in conjunction with all other relevant drawings & specifications.
4. All proprietary items to be installed in strict compliance with manufacturers instructions and recommendations.
5. No works shall commence on site until approval has been obtained from all relevant Agencies / Authorities.
6. All dimensions referred to in this drawing must be verified.

Key

- Site boundary
- Surface water drainage - proposed
- Surface water drainage - rodding eye
- Surface water drainage - 450mm dia. PPIC
- Surface water drainage - cellular crate attenuation tank
- Surface water drainage - channel drain
- Foul water drainage - proposed
- Foul water drainage - 450mm dia. PPIC
- Foul water drainage - soil and vent pipes
- Foul water drainage - gully
- Combined water drainage - existing
- Combined water manhole - existing
- Combined water drainage - proposed
- Combined water drainage - 450mm dia. PPIC
- Combined water manhole - 1200mm dia PCC

Surface Water Drainage Manhole Schedule												
Manhole Number	Cover Level (m)	Invert Level (m)	Major Pipe Diameter (mm)	Depth to Invert (m)	Manhole Type	Manhole Diameter (mm)	Manhole Cover		Pipe In		Pipe Out	
							Load Class	Size (mm) (l) x (w) x (d)	Invert Level (m)	Pipe Diameter (mm)	Invert Level (m)	Pipe Diameter (mm)
re1	95.350	94.900	100	0.450	Rodding Eye	100	A15	110 Oval	94.900	100	94.900	100
s1	95.350	94.775	100	0.575	PPC	450	A15	4500 x 40	94.775	100	94.775	100
re2	95.350	94.900	100	0.450	Rodding Eye	100	A15	110 Oval	94.900	100	94.900	100
s2	95.350	94.665	100	0.685	PPC	450	B125	4500 x 40	94.665	100	94.665	100
re3	94.850	94.400	100	0.450	Rodding Eye	100	A15	110 Oval	94.400	100	94.400	100
s3	94.850	94.350	100	0.500	PPC	450	A15	4500 x 40	94.350	100	94.350	100
s4	94.850	94.290	100	0.560	PPC	450	A15	4500 x 40	94.290	100	94.290	100
s5	94.850	93.070	100	1.780	Polypipe Ridgestorm Separate Silt Trap	450	A15	4500 x 40	93.070	100	93.070	100
re4	94.350	93.900	100	0.450	Rodding Eye	100	A15	110 Oval	93.900	100	93.900	100
s6	94.350	93.352	100	0.998	Polypipe Ridgestorm Separate Silt Trap	450	A15	4500 x 40	93.352	100	93.352	100
re5	94.350	93.900	100	0.450	Rodding Eye	100	A15	110 Oval	93.900	100	93.900	100
s7	94.350	93.530	100	0.820	Polypipe Ridgestorm Separate Silt Trap	450	A15	4500 x 40	93.530	100	93.530	100
re6	93.350	92.900	100	0.450	Rodding Eye	100	A15	110 Oval	92.900	100	92.900	100
s8	93.350	92.795	100	0.555	PPC	450	A15	4500 x 40	92.795	100	92.795	100
re7	93.850	93.400	100	0.450	Rodding Eye	100	A15	110 Oval	93.400	100	93.400	100
s9	93.350	92.670	100	0.680	PPC	450	A15	4500 x 40	92.670	100	92.670	100
s10	93.350	92.570	100	0.780	Polypipe Ridgestorm Separate Silt Trap	450	B125	4500 x 40	92.570	100	92.570	100
Attenuation Tank	93.350	92.200	-	1.150	Attenuation tank 93.00m ² x 0.400m deep. 35.34m ³ of storage	93.060	-	92.200	-	92.200	-	-
s11	93.350	92.190	100	1.160	Polypipe Ridgestorm 50mm dia. orifice flow control	450	A15	4500 x 40	92.190	100	92.190	100
re8	93.100	92.650	100	0.450	Rodding Eye	100	A15	110 Oval	92.650	100	92.650	100
s12	93.100	92.540	100	0.560	PPC	450	A15	4500 x 40	92.540	100	92.540	100
re9	93.100	92.650	100	0.450	Rodding Eye	100	A15	110 Oval	92.650	100	92.650	100
s13	93.100	92.010	100	1.090	Polypipe Ridgestorm Separate Silt Trap	450	B125	4500 x 40	92.010	100	92.010	100
Attenuation Tank	93.100	91.900	-	1.200	Attenuation tank 42.00m ² x 0.400m deep. 15.96m ³ of storage	92.000	-	91.900	-	91.900	-	-
re10	93.100	92.650	100	0.450	Rodding Eye	100	A15	110 Oval	92.650	100	92.650	100
re11	92.850	92.400	100	0.450	Rodding Eye	100	A15	110 Oval	92.400	100	92.400	100
s14	92.850	92.321	100	0.529	PPC	450	A15	4500 x 40	92.321	100	92.321	100
s15	93.100	92.162	100	0.918	Polypipe Ridgestorm Separate Silt Trap	450	B125	4500 x 40	92.162	100	92.162	100
s16	93.100	91.891	100	1.209	Polypipe Ridgestorm 50mm dia. orifice flow control	450	B125	4500 x 40	91.891	100	91.891	100

Surface Water Drainage Pipe Line Schedule						
Pipe Reference	Upstream I.L	Downstream I.L	Pipe Diameter	Distance	Pipe Gradient (1 in x)	Pipe Material
re1 - s1	94.900	94.775	100	12.340	98.7	Plastic
s1 - s2	94.775	94.665	100	10.640	96.7	Plastic
re2 - s2	94.900	94.665	100	12.130	51.6	Plastic
s2 - s3	94.665	94.350	100	5.660	18.0	Plastic
re3 - s3	94.400	94.350	100	4.090	81.8	Plastic
s3 - s4	94.350	94.290	100	5.950	99.2	Plastic
s4 - s5	94.290	93.070	100	14.730	12.1	Plastic
s5 - Attenuation Tank	93.070	93.060	100	0.720	72.0	Plastic
re4 - s6	93.900	93.352	100	10.150	18.5	Plastic
s6 - Attenuation Tank	93.352	93.262	100	0.920	10.2	Plastic
re5 - s7	93.900	93.530	100	10.160	27.5	Plastic
s7 - Attenuation Tank	93.530	93.440	100	0.910	10.1	Plastic
re6 - s8	92.900	92.795	100	10.230	97.4	Plastic
s8 - s9	92.795	92.670	100	12.010	96.1	Plastic
re9 - s9	93.400	92.670	100	3.500	4.8	Plastic
s9 - s10	92.670	92.570	100	9.660	56.6	Plastic
s10 - Attenuation Tank	92.570	92.550	100	1.590	79.0	Plastic
Attenuation Tank - s11	92.200	92.190	-	0.720	72.0	Plastic
s11 - c7	92.190	92.177	100	1.370	10.0	Plastic
re8 - s12	92.650	92.540	100	11.040	100.0	Plastic
s12 - s13	92.540	92.010	100	13.960	26.4	Plastic
re9 - s13	92.650	92.010	100	12.850	20.1	Plastic
s13 - Attenuation Tank	92.010	92.000	100	0.950	50.0	Plastic
Attenuation Tank - s16	91.900	91.891	-	0.730	83.8	Plastic
re10 - s16	92.650	91.891	100	12.540	16.6	Plastic
s16 - s17	91.891	91.321	100	7.890	100.0	Plastic
s14 - s15	92.321	92.182	100	13.920	100.0	Plastic
s15 - s16	92.182	91.891	100	1.240	4.3	Plastic
s16 - c8	91.891	91.878	100	1.370	100.0	Plastic