

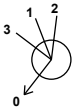
	The Drainage Designers 90 Coronation Street Sunderland SR1 2HE	File: Surface and Foul 4.pfd Network: Foul Martin Young 24/10/2024	Page 1										
	Design Settings												
	Frequency of use (kDU)	1.00	Minimum Velocity (m/s)	1.00									
	Flow per dwelling per day (l/day)	4000	Connection Type	Level Soffits									
Domestic Flow (l/s/ha)		1.0	Minimum Backdrop Height (m)	0.500									
Industrial Flow (l/s/ha)		1.0	Preferred Cover Depth (m)	0.900									
Additional Flow (%)		0	Include Intermediate Ground	✓									
Nodes													
	Name	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)							
	STUB 1	67.400		301688.205	510023.982	1.000							
	GRAY 1	67.400		301695.799	510024.041	1.000							
	SVP 1	67.400		301693.941	510021.842	1.000							
	FWMH 1	67.250	450	301695.142	510018.724	1.054							
	FWMH 2	67.250	450	301689.209	510011.073	1.175							
	GRAY 2	67.400		301683.048	510030.215	1.000							
	GRAY 3	67.400		301681.596	510031.286	1.000							
	SVP 2	67.400		301679.701	510029.034	1.000							
	FWMH 3	67.250	450	301678.070	510030.146	0.975							
	FWMH 4	67.250	450	301673.038	510023.679	1.431							
	OUT	66.700	450	301679.427	510008.014	1.115							
	DIRECT TO EXISTING	66.400		301675.662	510003.305	2.350							
Links (Results)													
	Name	Pro Vel @ 1/3 Q (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Dwellings (ha)	Σ Units (ha)	Σ Add Inflow (ha)	Pro Depth (mm)	Pro Velocity (m/s)
	1.000	0.000	1.056	8.3	0.0	0.900	0.875	0.000	0	0.0	0.0	0	0.000
	2.000	0.000	1.225	9.6	0.0	0.900	0.875	0.000	0	0.0	0.0	0	0.000
	3.000	0.000	1.681	13.2	0.0	0.900	0.875	0.000	0	0.0	0.0	0	0.000
	1.001	0.000	1.575	12.4	0.0	0.875	1.331	0.000	0	0.0	0.0	0	0.000
	1.002	0.000	0.744	5.8	0.0	1.331	0.992	0.000	0	0.0	0.0	0	0.000
	4.000	0.000	1.020	8.0	0.0	0.900	0.954	0.000	0	0.0	0.0	0	0.000
	5.000	0.000	1.302	10.2	0.0	0.900	0.954	0.000	0	0.0	0.0	0	0.000
	6.000	0.000	1.650	13.0	0.0	0.900	0.954	0.000	0	0.0	0.0	0	0.000
	4.001	0.000	0.744	5.8	0.0	0.954	1.075	0.000	0	0.0	0.0	0	0.000
	4.002	0.000	1.460	11.5	0.0	1.075	1.015	0.000	0	0.0	0.0	0	0.000
	1.003	0.000	3.375	26.5	0.0	1.015	2.250	0.000	0	0.0	0.0	0	0.000
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Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	4.978	39.8	100	Circular	67.400	66.400	0.900	67.250	66.275	0.875
2.000	3.706	29.6	100	Circular	67.400	66.400	0.900	67.250	66.275	0.875
3.000	1.974	15.8	100	Circular	67.400	66.400	0.900	67.250	66.275	0.875
1.001	8.194	18.0	100	Circular	67.250	66.275	0.875	67.250	65.819	1.331
1.002	16.917	80.0	100	Circular	67.250	65.819	1.331	66.700	65.608	0.992
4.000	8.705	42.7	100	Circular	67.400	66.400	0.900	67.250	66.196	0.954
5.000	5.357	26.3	100	Circular	67.400	66.400	0.900	67.250	66.196	0.954
6.000	3.341	16.4	100	Circular	67.400	66.400	0.900	67.250	66.196	0.954
4.001	9.682	80.0	100	Circular	67.250	66.196	0.954	67.250	66.075	1.075
4.002	10.249	20.9	100	Circular	67.250	66.075	1.075	66.700	65.585	1.015
1.003	6.029	3.9	100	Circular	66.700	65.585	1.015	66.400	64.050	2.250

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	GRAY 2		Junction		FWMH 3	450	Manhole	Adoptable
2.000	GRAY 3		Junction		FWMH 3	450	Manhole	Adoptable
3.000	SVP 2		Junction		FWMH 3	450	Manhole	Adoptable
1.001	FWMH 3	450	Manhole	Adoptable	FWMH 4	450	Manhole	Adoptable
1.002	FWMH 4	450	Manhole	Adoptable	OUT	450	Manhole	Adoptable
4.000	STUB 1		Junction		FWMH 1	450	Manhole	Adoptable
5.000	GRAY 1		Junction		FWMH 1	450	Manhole	Adoptable
6.000	SVP 1		Junction		FWMH 1	450	Manhole	Adoptable
4.001	FWMH 1	450	Manhole	Adoptable	FWMH 2	450	Manhole	Adoptable
4.002	FWMH 2	450	Manhole	Adoptable	OUT	450	Manhole	Adoptable
1.003	OUT	450	Manhole	Adoptable	DIRECT TO EXISTING		Junction	

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
STUB 1	301688.205	510023.982	67.400	1.000			0	4.000	66.400	100
GRAY 1	301695.799	510024.041	67.400	1.000			0	5.000	66.400	100
SVP 1	301693.941	510021.842	67.400	1.000			0	6.000	66.400	100
FWMH 1	301695.142	510018.724	67.250	1.054	450		1	6.000	66.196	100
							2	5.000	66.196	100
							3	4.000	66.196	100
							0	4.001	66.196	100
FWMH 2	301689.209	510011.073	67.250	1.175	450		1	4.001	66.075	100
							0	4.002	66.075	100

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
GRAY 2	301683.048	510030.215	67.400	1.000						
						0	1.000	66.400	100	
GRAY 3	301681.596	510031.286	67.400	1.000						
						0	2.000	66.400	100	
SVP 2	301679.701	510029.034	67.400	1.000						
						0	3.000	66.400	100	
FWMH 3	301678.070	510030.146	67.250	0.975	450		1	3.000	66.275	100
						2	2.000	66.275	100	
						3	1.000	66.275	100	
						0	1.001	66.275	100	
FWMH 4	301673.038	510023.679	67.250	1.431	450		1	1.001	65.819	100
						0	1.002	65.819	100	
OUT	301679.427	510008.014	66.700	1.115	450		1	4.002	65.585	100
						2	1.002	65.608	100	
						0	1.003	65.585	100	
DIRECT TO EXISTING	301675.662	510003.305	66.400	2.350			1	1.003	64.050	100