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By Liv Rickman at 10:34 am, Jul 02, 2024

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024			MBA CONSULTING
Report Details: Type: Junctions Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:	
		Designer: MBA Consulting			consultinastructural &civilengineers

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
G1	Manhole	90746.778	10680.970	5.870	0.675	5.195	Circular	0.450
G2	Manhole	90743.637	10674.309	6.480	0.710	5.770	Circular	0.450
SWMH 3	Manhole	90703.504	10678.440	10.050	0.690	9.360	Circular	1.200
S1.005	Manhole	90702.518	10674.279	10.237	0.847	9.390	Circular	1.500
S1.007	Manhole	90702.995	10663.918	10.249	0.779	9.470	Circular	1.500
S1.008	Manhole	90700.991	10659.524	10.570	1.030	9.540	Circular	1.200
S1.009	Manhole	90702.784	10643.010	18.938	2.000	16.938	Circular	0.450
S1.010	Manhole	90683.379	10640.119	19.336	1.000	18.336	Circular	0.450
S8.003	Manhole	90710.052	10668.383	9.860	1.000	8.860	Circular	0.450
S8.001	Manhole	90729.648	10672.663	8.387	2.367	6.020	Circular	1.500
S2.002	Manhole	90738.211	10671.161	7.566	1.606	5.960	Circular	1.500
S2.003	Manhole	90737.610	10660.739	8.603	2.573	6.030	Circular	1.500
S3.001	Manhole	90697.273	10675.148	10.507	1.077	9.430	Circular	1.200
S3.002	Manhole	90688.790	10673.645	10.770	1.280	9.490	Circular	0.450
S3.003	Manhole	90675.635	10670.384	10.568	0.988	9.580	Circular	0.450
S3.004	Manhole	90664.761	10667.850	10.359	0.699	9.660	Circular	0.450
S4.001	Manhole	90708.838	10659.394	10.342	0.792	9.550	Circular	1.200
S2.005	Manhole	90723.515	10657.887	11.779	2.779	9.000	Circular	0.450
S2.006	Manhole	90721.083	10648.046	15.443	1.943	13.500	Circular	0.450
S5.001	Manhole	90697.288	10659.036	13.634	3.744	9.890	Circular	0.450
S5.002	Manhole	90687.109	10657.591	13.480	2.560	10.920	Circular	0.450
S5.003	Manhole	90675.450	10655.765	13.134	1.624	11.510	Circular	0.450
S5.004	Manhole	90664.821	10653.241	13.085	1.025	12.060	Circular	0.450
S6.001	Manhole	90694.770	10650.287	16.265	1.545	14.720	Circular	0.450
S6.002	Manhole	90680.984	10648.366	16.824	1.964	14.860	Circular	0.450
S7.001	Manhole	90719.628	10639.124	18.147	1.000	17.147	Circular	0.450
Outfall	Manhole	90747.137	10689.167	2.000	1.000	1.000	Circular	0.450
S1.003 NEW PPIC	Manhole	90738.694	10674.818	6.920	1.000	5.920	Circular	0.450
S1.006	Manhole	90702.694	10666.385	10.246	0.796	9.450	Circular	1.500
S8.002	Manhole	90710.525	10674.070	9.800	1.000	8.800	Circular	0.450
S2.001	Manhole	90738.377	10672.417	7.344	1.394	5.950	Circular	0.450
S2.004	Manhole	90727.572	10659.907	10.000	3.900	6.100	Circular	1.500
S3.005	Manhole	90652.170	10664.618	10.230	0.480	9.750	Circular	0.450

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Name	Lock
G1	None
G2	None
SWMH 3	None
S1.005	None
S1.007	None
S1.008	None
S1.009	None
S1.010	None
S8.003	None
S8.001	None
S2.002	None
S2.003	None
S3.001	None
S3.002	None
S3.003	None
S3.004	None
S4.001	None
S2.005	None
S2.006	None
S5.001	None
S5.002	None
S5.003	None
S5.004	None
S6.001	None
S6.002	None
S7.001	None
Outfall	None
S1.003 NEW PPIC	None
S1.006	None
S8.002	None
S2.001	None
S2.004	None
S3.005	None

Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
G1	Inlet	S1.2	(None)	No Restriction
G2	Inlet (1)	S1.3	(None)	No Restriction
SWMH 3	Inlet	S1.5	(None)	No Restriction
S1.005	Inlet	S1.6	(None)	No Restriction
	Inlet (2)	S3.1	(None)	No Restriction
S1.007	Inlet	S1.8	(None)	No Restriction
		S4.1		
S1.008	Inlet (1)	S1.9	(None)	No Restriction
		S5.1		
		S6.1		
S1.009	Inlet	S7.1	(None)	No Restriction
	Inlet (1)	C23	(None)	No Restriction
	Inlet (2)	S1.10	(None)	No Restriction
S1.010	Inlet (1)	C19	(None)	No Restriction
	Inlet (2)	C21	(None)	No Restriction
S8.003	Inlet	C9	(None)	No Restriction
		C12		
S8.001	Inlet	C14	(None)	No Restriction
	Inlet (2)	S8.2	(None)	No Restriction
S2.002	Inlet	C15	(None)	No Restriction
		S2.3		
Inlet (2)	S8.1	(None)	No Restriction	

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Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
S2.003	Inlet	C16 S2.4	(None)	No Restriction
S3.001	Inlet	C8 Catchment Area	(None)	No Restriction
	Inlet (1)	S3.2	(None)	No Restriction
S3.002	Inlet	C7	(None)	No Restriction
	Inlet (1)	S3.3	(None)	No Restriction
S3.003	Inlet	C5	(None)	No Restriction
	Inlet (1)	S3.4	(None)	No Restriction
	Inlet (2)	Catchment Area (5)	(None)	No Restriction
S3.004	Inlet	C4	(None)	No Restriction
	Inlet (1)	S3.5	(None)	No Restriction
S4.001	Inlet	C17 Catchment Area (1)	(None)	No Restriction
S2.005	Inlet (1)	S2.6 Catchment Area (4)	(None)	No Restriction
	Inlet (2)	C10	(None)	No Restriction
S2.006	Inlet	C24 C27 Catchment Area (3)	(None)	No Restriction
S5.001	Inlet (1)	C3 S5.2	(None)	No Restriction
S5.002	Inlet (1)	C2 S5.3	(None)	No Restriction
S5.003	Inlet (1)	C1 S5.4	(None)	No Restriction
S5.004	Inlet	C0	(None)	No Restriction
S6.001	Inlet	Catchment Area (2)	(None)	No Restriction
	Inlet (1)	C22 S6.2	(None)	No Restriction
S6.002	Inlet	C18	(None)	No Restriction
	Inlet (1)	C20	(None)	No Restriction
S7.001	Inlet	C25 C26	(None)	No Restriction
Outfall	Inlet	S1.1	(None)	No Restriction
S1.003 NEW PPIC	Inlet (2)	S1.4 S2.1	(None)	No Restriction
S1.006	Inlet	S1.7	(None)	No Restriction
S8.002	Inlet	S8.3	(None)	No Restriction
	Inlet (1)	C11	(None)	No Restriction
S2.001	Inlet	S2.2	(None)	No Restriction
S2.004	Inlet	C13 S2.5	(None)	No Restriction
S3.005	Inlet	C6	(None)	No Restriction

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Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
G1	Outlet	S1.1	Free Discharge
G2	Outlet	S1.2	Free Discharge
SWMH 3	Outlet	S1.4	Free Discharge
S1.005	Outlet	S1.5	Free Discharge
S1.007	Outlet (1)	S1.7	Free Discharge
S1.008	Outlet	S1.8	Free Discharge
S1.009	Outlet	S1.9	Free Discharge
S1.010	Outlet	S1.10	Free Discharge
S8.003	Outlet	S8.3	Free Discharge
S8.001	Outlet	S8.1	Free Discharge
S2.002	Outlet	S2.2	Free Discharge
S2.003	Outlet	S2.3	Free Discharge
S3.001	Outlet	S3.1	Free Discharge
S3.002	Outlet	S3.2	Free Discharge
S3.003	Outlet	S3.3	Free Discharge
S3.004	Outlet	S3.4	Free Discharge
S4.001	Outlet	S4.1	Free Discharge
S2.005	Outlet	S2.5	Free Discharge
S2.006	Outlet	S2.6	Free Discharge
S5.001	Outlet	S5.1	Free Discharge
S5.002	Outlet	S5.2	Free Discharge
S5.003	Outlet	S5.3	Free Discharge
S5.004	Outlet	S5.4	Free Discharge
S6.001	Outlet	S6.1	Free Discharge
S6.002	Outlet	S6.2	Free Discharge
S7.001	Outlet	S7.1	Free Discharge
S1.003 NEW PPIC	Outlet	S1.3	Free Discharge
S1.006	Outlet	S1.6	Free Discharge
S8.002	Outlet	S8.2	Free Discharge
S2.001	Outlet	S2.1	Free Discharge
S2.004	Outlet	S2.4	Free Discharge
S3.005	Outlet	S3.5	Free Discharge

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024			MBA CONSULTING
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Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
S1.1	8.205	Pipe	1.956		0.6	150	5.870	5.195
S1.2	7.364	Pipe	12.807		0.6	150	6.480	5.770
S1.3	4.970	Pipe	33.132		0.6	150	6.920	5.920
S1.4	35.376	Pipe	10.284		0.6	150	10.050	9.360
S1.5	4.276	Pipe	142.530		0.6	150	10.237	9.390
S1.8	4.829	Pipe	68.985		0.6	300	10.570	9.540
S1.9	16.611	Pipe	2.245		0.6	150	18.938	16.938
S1.10	19.619	Pipe	14.034		0.6	100	19.336	18.336
S3.4	11.165	Pipe	139.568		0.6	150	10.359	9.660
S3.3	13.553	Pipe	150.589		0.6	150	10.568	9.580
S3.2	8.615	Pipe	143.587		0.6	150	10.770	9.490
S3.1	5.317	Pipe	132.927		0.6	300	10.507	9.430
S2.6	10.136	Pipe	2.253		0.6	100	15.443	13.500
S5.4	10.924	Pipe	19.862		0.6	100	13.085	12.060
S5.3	11.801	Pipe	20.002		0.6	100	13.134	11.510
S5.2	10.281	Pipe	9.981		0.6	100	13.480	10.920
S5.1	3.735	Pipe	10.672		0.6	150	13.634	9.890
S6.2	13.918	Pipe	99.418		0.6	100	16.824	14.860
S7.1	17.287	Pipe	82.712		0.6	100	18.147	17.147
S2.3	10.439	Pipe	149.134		0.6	600	8.603	6.030
S8.1	8.694	Pipe	144.892		0.6	600	8.387	6.020
S6.1	11.137	Pipe	2.150		0.6	150	16.265	14.720
S4.1	7.389	Pipe	92.360		0.6	300	10.342	9.550
S1.7	2.485	Pipe	124.274		0.6	300	10.249	9.470
S8.3	5.707	Pipe	95.112		0.6	100	9.860	8.860
S1.6	7.896	Pipe	131.605		0.6	225	10.246	9.450
S2.2	1.266	Pipe	126.650		0.6	150	7.566	5.960
S2.1	2.422	Pipe	80.734		0.6	100	7.344	5.950
S2.4	10.072	Pipe	143.890		0.6	450	10.000	6.100
S3.5	12.999	Pipe	144.431		0.6	150	10.230	9.750
S8.2	19.175	Pipe	6.898		0.6	150	9.800	8.800
S2.5	4.532	Pipe	1.563		0.6	100	11.779	9.000


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Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Part Family	Lock
S1.1	2.000	1.000		None
S1.2	5.870	5.195		None
S1.3	6.480	5.770		None
S1.4	6.920	5.920		None
S1.5	10.050	9.360		None
S1.8	10.249	9.470		None
S1.9	10.570	9.540		None
S1.10	18.938	16.938		None
S3.4	10.568	9.580		None
S3.3	10.770	9.490		None
S3.2	10.507	9.430		None
S3.1	10.237	9.390		None
S2.6	11.779	9.000		None
S5.4	13.134	11.510		None
S5.3	13.480	10.920		None
S5.2	13.634	9.890		None
S5.1	10.570	9.540		None
S6.2	16.265	14.720		None
S7.1	18.938	16.938		None
S2.3	7.566	5.960		None
S8.1	7.566	5.960		None
S6.1	10.570	9.540		None
S4.1	10.249	9.470		None
S1.7	10.246	9.450		None
S8.3	9.800	8.800		None
S1.6	10.237	9.390		None
S2.2	7.344	5.950		None
S2.1	6.920	5.920		None
S2.4	8.603	6.030		None
S3.5	10.359	9.660		None
S8.2	8.387	6.020		None
S2.5	10.000	6.100		None

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Report Details: Type: Manhole Schedule Storm Phase: Phase		Designed by: MFS	Checked by:	
		Designer: MBA Consulting		


Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections			Cover	
G1	5.870 5.195	Diameter / Length: 0.450	{1} S1.2	Pipe	5.195	Diam/Width:150	Manhole
E:90746.778 N:10680.970	0.675		{a} S1.1	Pipe	5.195	Diam/Width:150	Not Applicable
G2	6.480 5.770	Diameter / Length: 0.450	{1} S1.3	Pipe	5.770	Diam/Width:150	Manhole
E:90743.637 N:10674.309	0.710		{a} S1.2	Pipe	5.770	Diam/Width:150	Not Applicable
SWMH 3	10.050 9.360	Diameter / Length: 1.200	{1} S1.5	Pipe	9.360	Diam/Width:150	Manhole
E:90703.504 N:10678.440	0.690		{a} S1.4	Pipe	9.360	Diam/Width:150	Not Applicable
S1.005	10.237 9.390	Diameter / Length: 1.500	{1} S3.1	Pipe	9.390	Diam/Width:300	Manhole
E:90702.518 N:10674.279	0.847		{2} S1.6	Pipe	9.390	Diam/Width:225	
			{a} S1.5	Pipe	9.390	Diam/Width:150	Not Applicable
S1.007	10.249 9.470	Diameter / Length: 1.500	{1} S1.8	Pipe	9.470	Diam/Width:300	Manhole
E:90702.995 N:10663.918	0.779		{2} S4.1	Pipe	9.470	Diam/Width:300	
			{a} S1.7	Pipe	9.470	Diam/Width:300	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
Coordinates (m)	Depth (m)		Outgoing Connections				Cover
S1.008	10.570 9.540	Diameter / Length: 1.200	{1} S1.9	Pipe	9.540	Diam/Width:150	Manhole
E:90700.991	1.030		{2} S5.1	Pipe	9.540	Diam/Width:150	
N:10659.524			{3} S6.1	Pipe	9.540	Diam/Width:150	
			{a} S1.8	Pipe	9.540	Diam/Width:300	Not Applicable
S1.009	18.938 16.938	Diameter / Length: 0.450	{1} S7.1	Pipe	16.938	Diam/Width:100	Manhole
E:90702.784	2.000		{2} S1.10	Pipe	16.938	Diam/Width:100	
N:10643.010			{a} S1.9	Pipe	16.938	Diam/Width:150	Not Applicable
S1.010	19.336 18.336	Diameter / Length: 0.450					Manhole
E:90683.379	1.000						
N:10640.119			{a} S1.10	Pipe	18.336	Diam/Width:100	Not Applicable
S8.003	9.860 8.860	Diameter / Length: 0.450					Manhole
E:90710.052	1.000						
N:10668.383			{a} S8.3	Pipe	8.860	Diam/Width:100	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
Coordinates (m)	Depth (m)		Outgoing Connections				Cover
S8.001	8.387 6.020	Diameter / Length: 1.500	{1} S8.2	Pipe	6.020	Diam/Width:150	Manhole
E:90729.648 N:10672.663	2.367		{a} S8.1	Pipe	6.020	Diam/Width:600	Not Applicable
S2.002	7.566 5.960	Diameter / Length: 1.500	{1} S2.3	Pipe	5.960	Diam/Width:600	Manhole
E:90738.211 N:10671.161	1.606		{2} S8.1	Pipe	5.960	Diam/Width:600	
			{a} S2.2	Pipe	5.960	Diam/Width:150	Not Applicable
S2.003	8.603 6.030	Diameter / Length: 1.500	{1} S2.4	Pipe	6.030	Diam/Width:450	Manhole
E:90737.610 N:10660.739	2.573		{a} S2.3	Pipe	6.030	Diam/Width:600	Not Applicable
S3.001	10.507 9.430	Diameter / Length: 1.200	{1} S3.2	Pipe	9.430	Diam/Width:150	Manhole
E:90697.273 N:10675.148	1.077		{a} S3.1	Pipe	9.430	Diam/Width:300	Not Applicable
S3.002	10.770 9.490	Diameter / Length: 0.450	{1} S3.3	Pipe	9.490	Diam/Width:150	Manhole
E:90688.790 N:10673.645	1.280		{a} S3.2	Pipe	9.490	Diam/Width:150	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections			Cover	
S3.003	10.568 9.580	Diameter / Length: 0.450	{1} S3.4	Pipe	9.580	Diam/Width:150	Manhole
E:90675.635 N:10670.384	0.988		{a} S3.3	Pipe	9.580	Diam/Width:150	Not Applicable
S3.004	10.359 9.660	Diameter / Length: 0.450	{1} S3.5	Pipe	9.660	Diam/Width:150	Manhole
E:90664.761 N:10667.850	0.699		{a} S3.4	Pipe	9.660	Diam/Width:150	Not Applicable
S4.001	10.342 9.550	Diameter / Length: 1.200					Manhole
E:90708.838 N:10659.394	0.792		{a} S4.1	Pipe	9.550	Diam/Width:300	Not Applicable
S2.005	11.779 9.000	Diameter / Length: 0.450	{1} S2.6	Pipe	9.000	Diam/Width:100	Manhole
E:90723.515 N:10657.887	2.779		{a} S2.5	Pipe	9.000	Diam/Width:100	Not Applicable
S2.006	15.443 13.500	Diameter / Length: 0.450					Manhole
E:90721.083 N:10648.046	1.943		{a} S2.6	Pipe	13.500	Diam/Width:100	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections			Cover	
S5.001	13.634 9.890	Diameter / Length: 0.450	{1} S5.2	Pipe	9.890	Diam/Width:100	Manhole
E:90697.288 N:10659.036	3.744		{a} S5.1	Pipe	9.890	Diam/Width:150	Not Applicable
S5.002	13.480 10.920	Diameter / Length: 0.450	{1} S5.3	Pipe	10.920	Diam/Width:100	Manhole
E:90687.109 N:10657.591	2.560		{a} S5.2	Pipe	10.920	Diam/Width:100	Not Applicable
S5.003	13.134 11.510	Diameter / Length: 0.450	{1} S5.4	Pipe	11.510	Diam/Width:100	Manhole
E:90675.450 N:10655.765	1.624		{a} S5.3	Pipe	11.510	Diam/Width:100	Not Applicable
S5.004	13.085 12.060	Diameter / Length: 0.450					Manhole
E:90664.821 N:10653.241	1.025		{a} S5.4	Pipe	12.060	Diam/Width:100	Not Applicable
S6.001	16.265 14.720	Diameter / Length: 0.450	{1} S6.2	Pipe	14.720	Diam/Width:100	Manhole
E:90694.770 N:10650.287	1.545		{a} S6.1	Pipe	14.720	Diam/Width:150	Not Applicable

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024			MBA CONSULTING
Report Details: Type: Manhole Schedule Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:	
		Designer: MBA Consulting			consulting structural & civil engineers

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections			Cover	
S6.002	16.824 14.860	Diameter / Length: 0.450					Manhole
E:90680.984 N:10648.366	1.964		{a} S6.2	Pipe	14.860	Diam/Width:100	Not Applicable
S7.001	18.147 17.147	Diameter / Length: 0.450					Manhole
E:90719.628 N:10639.124	1.000		{a} S7.1	Pipe	17.147	Diam/Width:100	Not Applicable
Outfall	2.000 1.000	Diameter / Length: 0.450	{1} S1.1	Pipe	1.000	Diam/Width:150	Manhole
E:90747.137 N:10689.167	1.000						Not Applicable
S1.003 NEW PPIC	6.920 5.920	Diameter / Length: 0.450	{1} S1.4	Pipe	5.920	Diam/Width:150	Manhole
E:90738.694 N:10674.818	1.000		{2} S2.1	Pipe	5.920	Diam/Width:100	
			{a} S1.3	Pipe	5.920	Diam/Width:150	Not Applicable
S1.006	10.246 9.450	Diameter / Length: 1.500	{1} S1.7	Pipe	9.450	Diam/Width:300	Manhole
E:90702.694 N:10666.385	0.796		{a} S1.6	Pipe	9.450	Diam/Width:225	Not Applicable


Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024	 CONSULTING consultinastructural &civilengineers
Report Details: Type: Manhole Schedule Storm Phase: Phase	Designed by: MFS Checked by: Approved By: Designer: MBA Consulting	

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections			Cover	
S8.002	9.800 8.800	Diameter / Length: 0.450	{1} S8.3	Pipe	8.800	Diam/Width:100	Manhole
E:90710.525 N:10674.070	1.000		{a} S8.2	Pipe	8.800	Diam/Width:150	Not Applicable
S2.001	7.344 5.950	Diameter / Length: 0.450	{1} S2.2	Pipe	5.950	Diam/Width:150	Manhole
E:90738.377 N:10672.417	1.394		{a} S2.1	Pipe	5.950	Diam/Width:100	Not Applicable
S2.004	10.000 6.100	Diameter / Length: 1.500	{1} S2.5	Pipe	6.100	Diam/Width:100	Manhole
E:90727.572 N:10659.907	3.900		{a} S2.4	Pipe	6.100	Diam/Width:450	Not Applicable
S3.005	10.230 9.750	Diameter / Length: 0.450					Manhole
E:90652.170 N:10664.618	0.480		{a} S3.5	Pipe	9.750	Diam/Width:150	Not Applicable

Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024			MBA CONSULTING consulting structural & civil engineers
	Designed by: MFS	Checked by:	Approved By:	
Report Details: Type: Outfall Details Storm Phase: Phase	Designer: MBA Consulting			

Outfalls

Outfall	Outfall Type	Fixed Surcharged Level (m)	Level Curve
Outfall	Free Discharge		

Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024		
Report Title: Rainfall Analysis Criteria	Designed by: MFS	Checked by:	Approved By:
	Designer: MBA Consulting	consultinastructural &civilengineers	

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	10
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	<input type="checkbox"/>

Rainfall



FEH	Type: FEH
Site Location	GB 134289 25014 SW 34289 25014
Rainfall Version	2022
Summer	<input checked="" type="checkbox"/>
Winter	<input checked="" type="checkbox"/>

Return Period

Return Period (years)	Increase Rainfall (%)
100.0	50.000
30.0	50.000
10.0	0.000

Storm Durations


Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880
2160	4320

Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024		
Report Details: Type: Junctions Summary Storm Phase: Phase	Designed by: MFS	Checked by:	Approved By:
	Designer: MBA Consulting		



FEH: 100 years: Increase Rainfall (%): +50: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
G1	FEH: 100 years: +50 %: 15 mins: Summer	5.870	5.195	5.265	0.070	48.6	0.011	0.000	48.6	46.912	OK
G2	FEH: 100 years: +50 %: 30 mins: Winter	6.480	5.770	6.385	0.615	48.4	0.098	0.000	48.2	75.459	Flood Risk
SWMH 3	FEH: 100 years: +50 %: 15 mins: Winter	10.050	9.360	9.462	0.102	43.4	0.115	0.000	43.6	36.340	OK
S1.005	FEH: 100 years: +50 %: 30 mins: Winter	10.237	9.390	10.046	0.656	44.9	1.158	0.000	43.7	49.852	Flood Risk
S1.007	FEH: 100 years: +50 %: 30 mins: Winter	10.249	9.470	10.088	0.618	31.0	1.092	0.000	29.8	30.807	Flood Risk
S1.008	FEH: 100 years: +50 %: 30 mins: Winter	10.570	9.540	10.095	0.555	29.0	0.628	0.000	28.0	27.281	Surcharged
S1.009	FEH: 100 years: +50 %: 15 mins: Winter	18.938	16.938	16.967	0.029	11.9	0.005	0.000	11.8	5.595	OK
S1.010	FEH: 100 years: +50 %: 15 mins: Winter	19.336	18.336	18.376	0.040	5.0	0.006	0.000	4.9	2.295	OK
S8.003	FEH: 100 years: +50 %: 15 mins: Winter	9.860	8.860	9.078	0.218	11.0	0.035	0.000	9.2	5.100	Surcharged
S8.001	FEH: 100 years: +50 %: 30 mins: Winter	8.387	6.020	6.958	0.938	13.8	1.657	0.000	8.9	12.738	Surcharged
S2.002	FEH: 100 years: +50 %: 30 mins: Winter	7.566	5.960	6.958	0.998	13.7	1.763	0.000	18.4	25.655	Surcharged
S2.003	FEH: 100 years: +50 %: 30 mins: Winter	8.603	6.030	6.958	0.928	9.1	1.639	0.000	8.5	11.348	Surcharged
S3.001	FEH: 100 years: +50 %: 30 mins: Winter	10.507	9.430	10.048	0.618	17.0	0.699	0.000	16.3	19.069	Surcharged
S3.002	FEH: 100 years: +50 %: 15 mins: Winter	10.770	9.490	10.102	0.612	13.0	0.097	0.000	13.9	10.657	Surcharged
S3.003	FEH: 100 years: +50 %: 15 mins: Winter	10.568	9.580	10.166	0.586	11.0	0.093	0.000	11.3	8.195	Surcharged
S3.004	FEH: 100 years: +50 %: 15 mins: Winter	10.359	9.660	10.189	0.529	7.6	0.084	0.000	8.2	5.107	Flood Risk
S4.001	FEH: 100 years: +50 %: 30 mins: Winter	10.342	9.550	10.088	0.538	3.8	0.609	0.000	3.0	3.534	Flood Risk
S2.005	FEH: 100 years: +50 %: 15 mins: Winter	11.779	9.000	9.028	0.028	10.2	0.004	0.000	10.2	4.741	OK
S2.006	FEH: 100 years: +50 %: 15 mins: Winter	15.443	13.500	13.528	0.028	6.6	0.004	0.000	6.5	3.030	OK
S5.001	FEH: 100 years: +50 %: 30 mins: Winter	13.634	9.890	10.129	0.239	14.0	0.038	0.000	13.7	12.920	Surcharged


Project: 21185 Carn Thomas Isles of Scilly				Date: 18/03/2024			 MBA CONSULTING consulting structural & civil engineers		
Report Details: Type: Junctions Summary Storm Phase: Phase				Designed by: MFS	Checked by:	Approved By:			

S5.002	FEH: 100 years: +50 %: 15 mins: Summer	13.48 0	10.92 0	10.989	0.069	14.3	0.011	0.000	14.2	6.281	OK
S5.003	FEH: 100 years: +50 %: 15 mins: Winter	13.13 4	11.51 0	11.576	0.066	9.9	0.010	0.000	9.7	4.599	OK
S5.004	FEH: 100 years: +50 %: 15 mins: Winter	13.08 5	12.06 0	12.100	0.040	4.6	0.006	0.000	4.6	2.151	OK
S6.001	FEH: 100 years: +50 %: 15 mins: Winter	16.26 5	14.72 0	14.747	0.027	10.4	0.004	0.000	10.4	4.875	OK
S6.002	FEH: 100 years: +50 %: 15 mins: Winter	16.82 4	14.86 0	14.933	0.073	4.9	0.012	0.000	4.7	2.252	OK
S7.001	FEH: 100 years: +50 %: 15 mins: Winter	18.14 7	17.14 7	17.216	0.069	4.8	0.011	0.000	4.6	2.207	OK
Outfall	FEH: 100 years: +50 %: 15 mins: Summer	2.000	1.000	1.061	0.061	48.6	0.000	0.000	48.6	46.912	OK
S1.003 NEW PPIC	FEH: 100 years: +50 %: 30 mins: Winter	6.920	5.920	6.877	0.957	49.9	0.152	0.000	48.4	75.464	Flood Risk
S1.006	FEH: 100 years: +50 %: 30 mins: Winter	10.24 6	9.450	10.082	0.632	29.8	1.116	0.000	28.6	30.797	Flood Risk
S8.002	FEH: 100 years: +50 %: 15 mins: Winter	9.800	8.800	8.844	0.044	13.5	0.007	0.000	13.4	7.073	OK
S2.001	FEH: 100 years: +50 %: 30 mins: Winter	7.344	5.950	6.948	0.998	18.4	0.159	0.000	19.4	25.648	Surcharged
S2.004	FEH: 100 years: +50 %: 30 mins: Winter	10.00 0	6.100	6.958	0.858	10.6	1.515	0.000	7.4	9.763	Surcharged
S3.005	FEH: 100 years: +50 %: 15 mins: Winter	10.23 0	9.750	10.183	0.433	5.7	0.069	0.000	4.0	2.662	Flood Risk

Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024			MBA CONSULTING consultinastructural &civilengineers
	Designed by: MFS	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase	Designer: MBA Consulting			



FEH: 30 years: Increase Rainfall (%): +50: Critical Storm Per Item: Rank By: Max. Depth


Project: 21185 Carn Thomas Isles of Scilly			Date: 18/03/2024			 MBA CONSULTING consultingstructural & civilengineers		
Report Details: Type: Junctions Summary Storm Phase: Phase			Designed by: MFS	Checked by:	Approved By:			
			Designer: MBA Consulting					

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
G1	FEH: 30 years: +50 %: 15 mins: Winter	5.870	5.195	5.258	0.063	40.9	0.010	0.000	41.0	39.920	OK
G2	FEH: 30 years: +50 %: 15 mins: Winter	6.480	5.770	5.900	0.130	40.9	0.021	0.000	40.9	39.949	OK
SWMH 3	FEH: 30 years: +50 %: 15 mins: Winter	10.050	9.360	9.443	0.083	32.5	0.094	0.000	32.7	26.833	OK
S1.005	FEH: 30 years: +50 %: 15 mins: Winter	10.237	9.390	9.813	0.423	31.8	0.748	0.000	32.5	26.858	Surcharged
S1.007	FEH: 30 years: +50 %: 15 mins: Winter	10.249	9.470	9.830	0.360	26.8	0.635	0.000	21.6	16.631	Surcharged
S1.008	FEH: 30 years: +50 %: 15 mins: Winter	10.570	9.540	9.830	0.290	31.2	0.328	0.000	26.8	14.726	OK
S1.009	FEH: 30 years: +50 %: 15 mins: Winter	18.938	16.938	16.963	0.025	8.8	0.004	0.000	8.8	4.143	OK
S1.010	FEH: 30 years: +50 %: 15 mins: Winter	19.336	18.336	18.370	0.034	3.7	0.005	0.000	3.6	1.695	OK
S8.003	FEH: 30 years: +50 %: 15 mins: Winter	9.860	8.860	8.972	0.112	8.2	0.018	0.000	7.6	3.765	Surcharged
S8.001	FEH: 30 years: +50 %: 30 mins: Winter	8.387	6.020	6.423	0.403	10.1	0.711	0.000	7.7	9.306	OK
S2.002	FEH: 30 years: +50 %: 30 mins: Winter	7.566	5.960	6.423	0.463	11.4	0.817	0.000	11.9	18.743	Surcharged
S2.003	FEH: 30 years: +50 %: 30 mins: Winter	8.603	6.030	6.423	0.393	6.6	0.694	0.000	5.5	8.292	OK
S3.001	FEH: 30 years: +50 %: 15 mins: Winter	10.507	9.430	9.815	0.385	15.3	0.435	0.000	13.3	10.287	Surcharged
S3.002	FEH: 30 years: +50 %: 15 mins: Winter	10.770	9.490	9.848	0.358	12.1	0.057	0.000	10.1	7.859	Surcharged
S3.003	FEH: 30 years: +50 %: 15 mins: Winter	10.568	9.580	9.877	0.297	9.9	0.047	0.000	8.1	6.037	Surcharged
S3.004	FEH: 30 years: +50 %: 15 mins: Winter	10.359	9.660	9.888	0.228	6.4	0.036	0.000	5.0	3.753	Surcharged
S4.001	FEH: 30 years: +50 %: 15 mins: Winter	10.342	9.550	9.830	0.280	4.3	0.316	0.000	2.8	1.920	OK
S2.005	FEH: 30 years: +50 %: 15 mins: Winter	11.779	9.000	9.025	0.025	7.5	0.004	0.000	7.5	3.502	OK
S2.006	FEH: 30 years: +50 %: 15 mins: Winter	15.443	13.500	13.523	0.023	4.8	0.004	0.000	4.8	2.238	OK
S5.001	FEH: 30 years: +50 %: 15 mins: Winter	13.634	9.890	9.942	0.052	14.8	0.008	0.000	14.8	6.972	OK
S5.002	FEH: 30 years: +50 %: 15 mins: Winter	13.480	10.920	10.978	0.058	11.1	0.009	0.000	11.0	5.208	OK
S5.003	FEH: 30 years: +50 %: 15 mins: Winter	13.134	11.510	11.563	0.053	7.3	0.008	0.000	7.2	3.399	OK
S5.004	FEH: 30 years: +50 %: 15 mins: Winter	13.085	12.060	12.094	0.034	3.4	0.005	0.000	3.4	1.590	OK
S6.001	FEH: 30 years: +50 %: 15 mins: Winter	16.265	14.720	14.743	0.023	7.7	0.004	0.000	7.6	3.599	OK
S6.002	FEH: 30 years: +50 %: 15 mins: Winter	16.824	14.860	14.920	0.060	3.6	0.010	0.000	3.5	1.664	OK
S7.001	FEH: 30 years: +50 %: 15 mins: Winter	18.147	17.147	17.204	0.057	3.5	0.009	0.000	3.4	1.634	OK
Outfall	FEH: 30 years: +50 %: 15 mins: Winter	2.000	1.000	1.056	0.056	41.0	0.000	0.000	41.0	39.920	OK
S1.003 NEW PPIC	FEH: 30 years: +50 %: 15 mins: Winter	6.920	5.920	6.340	0.420	40.5	0.067	0.000	40.9	39.998	Surcharged
S1.006	FEH: 30 years: +50 %: 15 mins: Winter	10.246	9.450	9.828	0.378	21.6	0.668	0.000	18.5	16.602	Surcharged
S8.002	FEH: 30 years: +50 %: 15 mins: Winter	9.800	8.800	8.838	0.038	10.8	0.006	0.000	10.7	5.222	OK
S2.001	FEH: 30 years: +50 %: 30 mins: Winter	7.344	5.950	6.412	0.462	11.9	0.073	0.000	12.4	18.740	Surcharged
S2.004	FEH: 30 years: +50 %: 30 mins: Winter	10.000	6.100	6.423	0.323	7.7	0.570	0.000	5.4	7.135	OK
S3.005	FEH: 30 years: +50 %: 15 mins: Winter	10.230	9.750	9.891	0.141	4.2	0.022	0.000	2.5	1.946	OK


Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024		
	Designed by: MFS	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Designer: MBA Consulting		



FEH: 10 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024			 MBA CONSULTING consultingstructural & civilengineers	
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:		
		Designer: MBA Consulting				


Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
G1	FEH: 10 years: +0 %: 15 mins: Winter	5.870	5.195	5.245	0.050	27.4	0.008	0.000	27.4	20.072	OK
G2	FEH: 10 years: +0 %: 15 mins: Winter	6.480	5.770	5.864	0.094	27.5	0.015	0.000	27.4	20.079	OK
SWMH 3	FEH: 10 years: +0 %: 15 mins: Winter	10.050	9.360	9.425	0.065	21.9	0.073	0.000	21.6	13.273	OK
S1.005	FEH: 10 years: +0 %: 15 mins: Winter	10.237	9.390	9.546	0.156	23.7	0.276	0.000	21.9	13.280	Surcharged
S1.007	FEH: 10 years: +0 %: 15 mins: Winter	10.249	9.470	9.577	0.107	16.5	0.190	0.000	15.7	8.226	OK
S1.008	FEH: 10 years: +0 %: 15 mins: Winter	10.570	9.540	9.622	0.082	15.4	0.093	0.000	14.9	7.293	OK
S1.009	FEH: 10 years: +0 %: 15 mins: Winter	18.938	16.938	16.957	0.019	4.4	0.003	0.000	4.3	2.055	OK
S1.010	FEH: 10 years: +0 %: 15 mins: Winter	19.336	18.336	18.359	0.023	1.8	0.004	0.000	1.8	0.841	OK
S8.003	FEH: 10 years: +0 %: 15 mins: Winter	9.860	8.860	8.921	0.061	4.0	0.010	0.000	3.9	1.871	OK
S8.001	FEH: 10 years: +0 %: 15 mins: Winter	8.387	6.020	6.145	0.125	7.2	0.222	0.000	5.0	3.411	OK
S2.002	FEH: 10 years: +0 %: 15 mins: Winter	7.566	5.960	6.145	0.185	9.8	0.328	0.000	9.3	6.840	Surcharged
S2.003	FEH: 10 years: +0 %: 15 mins: Winter	8.603	6.030	6.146	0.116	6.4	0.205	0.000	4.1	3.031	OK
S3.001	FEH: 10 years: +0 %: 15 mins: Winter	10.507	9.430	9.551	0.121	10.3	0.137	0.000	8.9	5.095	OK
S3.002	FEH: 10 years: +0 %: 15 mins: Winter	10.770	9.490	9.577	0.087	8.1	0.014	0.000	7.7	3.889	OK
S3.003	FEH: 10 years: +0 %: 15 mins: Winter	10.568	9.580	9.651	0.071	6.3	0.011	0.000	6.1	2.985	OK
S3.004	FEH: 10 years: +0 %: 15 mins: Winter	10.359	9.660	9.713	0.053	4.0	0.008	0.000	3.8	1.856	OK
S4.001	FEH: 10 years: +0 %: 15 mins: Winter	10.342	9.550	9.581	0.031	2.0	0.035	0.000	1.6	0.944	OK
S2.005	FEH: 10 years: +0 %: 15 mins: Winter	11.779	9.000	9.018	0.018	3.7	0.003	0.000	3.7	1.734	OK
S2.006	FEH: 10 years: +0 %: 15 mins: Winter	15.443	13.500	13.516	0.016	2.4	0.003	0.000	2.4	1.111	OK
S5.001	FEH: 10 years: +0 %: 15 mins: Winter	13.634	9.890	9.927	0.037	7.3	0.006	0.000	7.3	3.450	OK
S5.002	FEH: 10 years: +0 %: 15 mins: Winter	13.480	10.920	10.958	0.038	5.5	0.006	0.000	5.4	2.576	OK
S5.003	FEH: 10 years: +0 %: 15 mins: Winter	13.134	11.510	11.546	0.036	3.6	0.006	0.000	3.6	1.682	OK
S5.004	FEH: 10 years: +0 %: 15 mins: Winter	13.085	12.060	12.084	0.024	1.7	0.004	0.000	1.7	0.787	OK
S6.001	FEH: 10 years: +0 %: 15 mins: Winter	16.265	14.720	14.738	0.018	3.8	0.003	0.000	3.8	1.793	OK
S6.002	FEH: 10 years: +0 %: 15 mins: Winter	16.824	14.860	14.900	0.040	1.8	0.006	0.000	1.7	0.825	OK
S7.001	FEH: 10 years: +0 %: 15 mins: Winter	18.147	17.147	17.185	0.038	1.8	0.006	0.000	1.7	0.807	OK
Outfall	FEH: 10 years: +0 %: 15 mins: Winter	2.000	1.000	1.045	0.045	27.4	0.000	0.000	27.4	20.072	OK
S1.003 NEW PPIC	FEH: 10 years: +0 %: 15 mins: Winter	6.920	5.920	6.055	0.135	28.1	0.021	0.000	27.5	20.089	OK
S1.006	FEH: 10 years: +0 %: 15 mins: Winter	10.246	9.450	9.560	0.110	15.7	0.194	0.000	14.8	8.213	OK
S8.002	FEH: 10 years: +0 %: 15 mins: Winter	9.800	8.800	8.829	0.029	5.5	0.005	0.000	5.5	2.604	OK
S2.001	FEH: 10 years: +0 %: 15 mins: Winter	7.344	5.950	6.135	0.185	9.3	0.029	0.000	9.6	6.831	Surcharged
S2.004	FEH: 10 years: +0 %: 15 mins: Winter	10.000	6.100	6.148	0.048	5.6	0.085	0.000	5.5	2.611	OK
S3.005	FEH: 10 years: +0 %: 15 mins: Winter	10.230	9.750	9.788	0.038	2.1	0.006	0.000	2.0	0.963	OK

Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024	Designed by: MFS	Checked by:	Approved By:	 MBA CONSULTING consulting structural & civil engineers
Report Details: Type: Connections Summary Storm Phase: Phase	Designer: MBA Consulting				




FEH: 100 years: Increase Rainfall (%): +50: Critical Storm Per Item: Rank By: Max. Flow



Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.1	FEH: 100 years: +50 %: 15 mins: Summer	Pipe	G1	Outfall	5.870	5.265	0.066	46.912	6.5	0.38	48.6	OK
S1.2	FEH: 100 years: +50 %: 15 mins: Summer	Pipe	G2	G1	6.480	5.986	0.143	46.946	3.4	0.97	48.6	Surcharged
S1.3	FEH: 100 years: +50 %: 15 mins: Summer	Pipe	S1.003 NEW PPIC	G2	6.920	6.515	0.150	47.004	2.7	1.56	48.4	Surcharged
S1.4	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	SWMH 3	S1.003 NEW PPIC	10.050	9.462	0.150	36.340	2.5	0.78	43.6	OK
S1.5	FEH: 100 years: +50 %: 30 mins: Winter	Pipe	S1.005	SWMH 3	10.237	10.046	0.150	49.852	2.5	2.95	43.7	Flood Risk
S1.8	FEH: 100 years: +50 %: 15 mins: Summer	Pipe	S1.008	S1.007	10.570	9.989	0.300	17.778	0.7	0.27	36.1	Surcharged
S1.9	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S1.009	S1.008	18.938	16.967	0.150	5.595	0.8	0.1	11.8	OK
S1.10	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S1.010	S1.009	19.336	18.376	0.035	2.295	2.0	0.3	4.9	OK
S3.4	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S3.004	S3.003	10.359	10.189	0.150	5.107	0.5	0.55	8.2	Flood Risk
S3.3	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S3.003	S3.002	10.568	10.166	0.150	8.195	0.6	0.79	11.3	Surcharged
S3.2	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S3.002	S3.001	10.770	10.102	0.150	10.657	0.8	0.94	13.9	Surcharged
S3.1	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S3.001	S1.005	10.507	10.037	0.300	13.944	0.3	0.18	17.2	Surcharged
S2.6	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S2.006	S2.005	15.443	13.528	0.028	3.030	3.7	0.16	6.5	OK
S5.4	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S5.004	S5.003	13.085	12.100	0.053	2.151	1.1	0.34	4.6	OK

Project: 21185 Carn Thomas Isles of Scilly				Date: 18/03/2024				 MBA CONSULTING consulting structural & civil engineers							
Report Details: Type: Connections Summary Storm Phase: Phase				Designed by: MFS								Checked by:			
				Designer: MBA Consulting											

S5.3	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S5.003	S5.002	13.134	11.576	0.066	4.599	1.8	0.71	9.7	OK
S5.2	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S5.002	S5.001	13.480	10.986	0.100	7.043	1.9	0.77	14.9	OK
S5.1	FEH: 100 years: +50 %: 15 mins: Summer	Pipe	S5.001	S1.008	13.634	9.994	0.150	8.413	1.0	0.33	17.9	OK
S6.2	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S6.002	S6.001	16.824	14.933	0.050	2.252	1.2	0.78	4.7	OK
S7.1	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S7.001	S1.009	18.147	17.216	0.049	2.207	1.2	0.7	4.6	OK
S2.3	FEH: 100 years: +50 %: 30 mins: Winter	Pipe	S2.003	S2.002	8.603	6.958	0.600	11.348	0.2	0.02	8.5	Surcharged
S8.1	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S8.001	S2.002	8.387	6.787	0.600	8.466	0.2	0.02	11.8	Surcharged
S6.1	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S6.001	S1.008	16.265	14.747	0.150	4.875	0.7	0.08	10.4	OK
S4.1	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S4.001	S1.007	10.342	10.061	0.300	2.574	0.2	0.03	3.1	Flood Risk
S1.7	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S1.007	S1.006	10.249	10.061	0.300	22.481	0.7	0.32	32.0	Flood Risk
S8.3	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S8.003	S8.002	9.860	9.078	0.100	5.100	1.2	1.48	9.2	Surcharged
S1.6	FEH: 100 years: +50 %: 30 mins: Winter	Pipe	S1.006	S1.005	10.246	10.082	0.225	30.797	0.7	0.63	28.6	Flood Risk
S2.2	FEH: 100 years: +50 %: 30 mins: Winter	Pipe	S2.002	S2.001	7.566	6.958	0.150	25.655	1.0	1.17	18.4	Surcharged
S2.1	FEH: 100 years: +50 %: 30 mins: Winter	Pipe	S2.001	S1.003 NEW PPIC	7.344	6.948	0.100	25.648	2.5	2.89	19.4	Surcharged
S2.4	FEH: 100 years: +50 %: 15 mins: Summer	Pipe	S2.004	S2.003	10.000	6.581	0.450	6.307	0.6	0.04	9.7	Surcharged
S3.5	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S3.005	S3.004	10.230	10.183	0.150	2.662	0.4	0.27	4.0	Flood Risk
S8.2	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S8.002	S8.001	9.800	8.844	0.150	7.073	1.3	0.2	13.4	OK

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024			 MBA CONSULTING consulting structural & civil engineers		
Report Details: Type: Connections Summary Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:			
		Designer: MBA Consulting					


S2.5	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S2.005	S2.004	11.779	9.028	0.100	4.741	1.6	0.21	10.2	OK
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Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024		
Report Details: Type: Connections Summary Storm Phase: Phase	Designed by: MFS	Checked by:	Approved By:
	Designer: MBA Consulting		




FEH: 30 years: Increase Rainfall (%): +50: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.1	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	G1	Outfall	5.870	5.258	0.060	39.920	6.3	0.32	41.0	OK
S1.2	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	G2	G1	6.480	5.900	0.097	39.949	3.4	0.82	40.9	OK
S1.3	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S1.003 NEW PPIC	G2	6.920	6.340	0.150	39.998	2.3	1.32	40.9	Surcharged
S1.4	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	SWMH 3	S1.003 NEW PPIC	10.050	9.443	0.150	26.833	1.8	0.59	32.7	OK
S1.5	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S1.005	SWMH 3	10.237	9.813	0.150	26.858	1.8	2.19	32.5	Surcharged
S1.8	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S1.008	S1.007	10.570	9.830	0.300	14.726	0.7	0.2	26.8	OK
S1.9	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S1.009	S1.008	18.938	16.963	0.150	4.143	0.7	0.07	8.8	OK
S1.10	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S1.010	S1.009	19.336	18.370	0.029	1.695	1.9	0.22	3.6	OK
S3.4	FEH: 30 years: +50 %: 30 mins: Winter	Pipe	S3.004	S3.003	10.359	9.868	0.150	5.082	0.6	0.35	5.3	Surcharged
S3.3	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S3.003	S3.002	10.568	9.877	0.150	6.037	0.6	0.56	8.1	Surcharged
S3.2	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S3.002	S3.001	10.770	9.848	0.150	7.859	0.6	0.68	10.1	Surcharged
S3.1	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S3.001	S1.005	10.507	9.815	0.300	10.287	0.3	0.14	13.3	Surcharged
S2.6	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S2.006	S2.005	15.443	13.523	0.024	2.238	3.3	0.12	4.8	OK
S5.4	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S5.004	S5.003	13.085	12.094	0.044	1.590	1.0	0.25	3.4	OK

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				Designer: MBA Consulting											

S5.3	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S5.003	S5.002	13.134	11.563	0.056	3.399	1.6	0.53	7.2	OK
S5.2	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S5.002	S5.001	13.480	10.978	0.055	5.208	2.5	0.57	11.0	OK
S5.1	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S5.001	S1.008	13.634	9.942	0.150	6.972	1.0	0.27	14.8	OK
S6.2	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S6.002	S6.001	16.824	14.920	0.042	1.664	1.1	0.58	3.5	OK
S7.1	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S7.001	S1.009	18.147	17.204	0.041	1.634	1.1	0.52	3.4	OK
S2.3	FEH: 30 years: +50 %: 30 mins: Summer	Pipe	S2.003	S2.002	8.603	6.373	0.378	7.403	0.2	0.01	6.7	OK
S8.1	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S8.001	S2.002	8.387	6.409	0.419	6.800	0.3	0.02	9.7	OK
S6.1	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S6.001	S1.008	16.265	14.743	0.150	3.599	0.7	0.06	7.6	OK
S4.1	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S4.001	S1.007	10.342	9.830	0.300	1.905	0.2	0.02	2.8	OK
S1.7	FEH: 30 years: +50 %: 30 mins: Winter	Pipe	S1.007	S1.006	10.249	9.826	0.300	22.505	0.7	0.22	21.7	Surcharged
S8.3	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S8.003	S8.002	9.860	8.972	0.075	3.765	1.2	1.23	7.6	Surcharged
S1.6	FEH: 30 years: +50 %: 30 mins: Winter	Pipe	S1.006	S1.005	10.246	9.823	0.225	22.500	0.6	0.46	20.8	Surcharged
S2.2	FEH: 30 years: +50 %: 30 mins: Summer	Pipe	S2.002	S2.001	7.566	6.373	0.150	16.726	0.8	0.9	14.2	Surcharged
S2.1	FEH: 30 years: +50 %: 30 mins: Summer	Pipe	S2.001	S1.003 NEW PPIC	7.344	6.362	0.100	16.723	1.9	2.19	14.7	Surcharged
S2.4	FEH: 30 years: +50 %: 15 mins: Summer	Pipe	S2.004	S2.003	10.000	6.364	0.299	4.710	0.5	0.03	7.9	OK
S3.5	FEH: 30 years: +50 %: 15 mins: Summer	Pipe	S3.005	S3.004	10.230	9.825	0.118	1.737	0.4	0.27	3.9	OK
S8.2	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S8.002	S8.001	9.800	8.838	0.150	5.222	1.4	0.16	10.7	OK

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S2.5	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S2.005	S2.004	11.779	9.025	0.100	3.502	1.4	0.15	7.5	OK
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Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024			MBA CONSULTING consulting structural & civil engineers
Report Details: Type: Connections Summary Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:	
		Designer: MBA Consulting			




FEH: 10 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.1	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	G1	Outfall	5.870	5.245	0.048	20.072	5.7	0.21	27.4	OK
S1.2	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	G2	G1	6.480	5.864	0.072	20.079	3.3	0.55	27.4	OK
S1.3	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S1.003 NEW PPIC	G2	6.920	6.055	0.114	20.089	1.9	0.89	27.5	OK
S1.4	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	SWMH 3	S1.003 NEW PPIC	10.050	9.425	0.100	13.273	1.7	0.39	21.6	OK
S1.5	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S1.005	SWMH 3	10.237	9.546	0.111	13.280	1.6	1.48	21.9	Surcharged
S1.8	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S1.008	S1.007	10.570	9.622	0.095	7.293	0.8	0.11	14.9	OK
S1.9	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S1.009	S1.008	18.938	16.957	0.051	2.055	0.8	0.04	4.3	OK
S1.10	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S1.010	S1.009	19.336	18.359	0.021	0.841	1.5	0.11	1.8	OK
S3.4	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S3.004	S3.003	10.359	9.713	0.062	1.856	0.6	0.26	3.8	OK
S3.3	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S3.003	S3.002	10.568	9.651	0.079	2.985	0.6	0.42	6.1	OK
S3.2	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S3.002	S3.001	10.770	9.577	0.104	3.889	0.6	0.52	7.7	OK
S3.1	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S3.001	S1.005	10.507	9.551	0.139	5.095	0.4	0.09	8.9	OK
S2.6	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S2.006	S2.005	15.443	13.516	0.017	1.111	2.7	0.06	2.4	OK
S5.4	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S5.004	S5.003	13.085	12.084	0.030	0.787	0.9	0.12	1.7	OK

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S5.3	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S5.003	S5.002	13.134	11.546	0.037	1.682	1.4	0.26	3.6	OK
S5.2	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S5.002	S5.001	13.480	10.958	0.037	2.576	2.0	0.28	5.4	OK
S5.1	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S5.001	S1.008	13.634	9.927	0.060	3.450	1.1	0.13	7.3	OK
S6.2	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S6.002	S6.001	16.824	14.900	0.029	0.825	0.9	0.29	1.7	OK
S7.1	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S7.001	S1.009	18.147	17.185	0.029	0.807	0.9	0.26	1.7	OK
S2.3	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S2.003	S2.002	8.603	6.146	0.151	3.031	0.2	0.01	4.1	OK
S8.1	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S8.001	S2.002	8.387	6.145	0.155	3.411	0.3	0.01	5.0	OK
S6.1	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S6.001	S1.008	16.265	14.738	0.050	1.793	0.7	0.03	3.8	OK
S4.1	FEH: 10 years: +0 %: 15 mins: Summer	Pipe	S4.001	S1.007	10.342	9.576	0.065	0.842	0.1	0.01	1.7	OK
S1.7	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S1.007	S1.006	10.249	9.577	0.109	8.226	0.7	0.16	15.7	OK
S8.3	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S8.003	S8.002	9.860	8.921	0.045	1.871	1.2	0.64	3.9	OK
S1.6	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S1.006	S1.005	10.246	9.560	0.133	8.213	0.6	0.33	14.8	OK
S2.2	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S2.002	S2.001	7.566	6.145	0.150	6.840	0.6	0.59	9.3	Surcharged
S2.1	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S2.001	S1.003 NEW PPIC	7.344	6.135	0.100	6.831	1.2	1.42	9.6	Surcharged
S2.4	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S2.004	S2.003	10.000	6.148	0.082	2.611	0.5	0.02	5.5	OK
S3.5	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S3.005	S3.004	10.230	9.788	0.045	0.963	0.5	0.14	2.0	OK
S8.2	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S8.002	S8.001	9.800	8.829	0.070	2.604	1.1	0.08	5.5	OK

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024			 MBA CONSULTING consulting structural & civil engineers		
Report Details: Type: Connections Summary Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:			
		Designer: MBA Consulting					

S2.5	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S2.005	S2.004	11.779	9.018	0.030	1.734	1.8	0.08	3.7	OK
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