

[illegible]

CONSTRUCTION NOTES.

1. All highway drains to be constructed in accordance with the current **Torrey Council Design Guide and Specification**.
 2. All highway works to be the subject of a **Section 38 Agreement of the Highways Act 1980**.
 3. All public sewers to comply with the publication **Design and Construction of Sewerage Systems for Adoption**, 7th Edition, together with any additional specific requirements of **South West Water**.
 4. All public sewers are to be the subject of a **Section 104 Agreement of the Water Industry Act 1991**.
 5. Positions of all existing sewers to be established before construction commences and details reported to **ENGINEERS**.
 6. Invert levels of existing manholes and sewers are to be checked on site before construction commences and results reported to **ENGINEERS**.
 7. All manholes covers to comply with **BS497 Part 1**, and be **Interlocked**. All bedding shall Class 5 unless noted otherwise. All inverts under existing and proposed public highways are to be backfilled with thoroughly compacted **OD Type 1** sub-base material. Concrete bed and surround is to be **100mm** thick. The depth of the concrete cover is less than 12m.
 8. The use of precast concrete products made with sulphate resisting cement is mandatory. Unless a laboratory report proves such precautions are not necessary.

Subject to **Planning Authority Approval** all sewer pipes, up to, and including 300mm are to be **PVC-U**, strength class **SN8**, all sewer pipes 375mm diameter and above, to be **Concrete Class CEN20 to BS 5911:2002**.

Refer also to **Public Sewer Construction Details and Drainage Layout** drawings.

MANHOLE SCHEDULE
Sheet 2 of 12

Member Number	Coordinates	Level	Cover	Connections	Code	Pipe	Inverts	Dams	Material	Types
Coordinates	Level	Cover	Connections	Code	Pipe	Inverts	Dams	Material	Types	
F11	287881.722	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F18	287870.743	N	68.682	1.707	0	1.013	63.790	225	2	D400
F19	287748.900	N	68.435	2.610	0	1.014	63.750	225	1.014	63.750
F20	287722.296	N	68.891	3.071	0	1.016	63.555	225	2700 ULVERT ACCESS	D400
F21	287730.017	N	67.230	3.510	0	1.016	63.495	225	2700 ULVERT ACCESS	D400
F22	287744.271	N	67.230	3.535	0	1.017	63.470	225	2700 ULVERT ACCESS	D400
F31	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F32	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F41	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F51	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F61	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F71	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F91	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F92	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F93	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F94	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F102	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F121	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F133	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F151	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F160	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F192	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F193	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F194	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F195	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F196	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F197	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F198	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F199	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F200	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F201	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F202	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F211	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F220	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F221	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F222	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F223	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F224	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F225	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F226	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F227	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F228	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F229	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F230	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F231	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F232	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F233	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F234	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F235	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F236	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F237	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F238	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F239	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F240	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F241	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F242	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F243	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F244	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F245	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F246	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F247	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F248	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F249	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F250	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F251	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F252	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F253	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F254	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F255	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F256	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F257	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F258	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F259	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F260	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F261	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F262	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F263	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F264	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F265	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F266	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F267	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F268	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F269	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F270	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F271	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F272	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F273	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F274	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F275	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F276	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F277	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F278	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F279	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F280	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F281	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F282	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F283	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F284	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F285	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F286	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F287	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F288	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F289	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F290	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F291	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F292	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F293	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F294	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F295	287735.630	N	68.837	2.782	0	1.007	66.925	150	225	1200 EXISTING D400
F296	287735.630	N	68.837	2.782	0	1.007	66.925</			

NOTE:

- NOTE:
1. PLOT AND GULLY CONNECTIONS NOT SHOWN.
 2. MANHOLES FOR ALL PHASES AND EXISTING SHOWN. SEE LAYOUT DRAWINGS 110-112 FOR MANHOLES RELEVANT TO PHASE 1.
 3. (A) - DENOTES LATERAL FOR PHASE 2 DEVELOPMENT TO BE CONSTRUCTED AS PART OF PHASE 1 WORKS.
 4. (B) - DENOTES EXISTING MANHOLE DETAILS (INCLUDING SPIRS AND LATERALS) TO BE VERIFIED PRIOR TO COMMENCEMENT OF PHASE 1 WORKS.
 5. (C) - DENOTES DEBRIS SCREENS TO BE FITTED TO MANHOLE (F11, F94 & F702).

MANHOLE SCHEDULE

Table 1: Pipe and Fittings										Table 2: Pipe and Fittings										
Member Number	Coordinates	Cover Level	Connections	Code	Pipe Inverts	Dams	Material	Types		Member Number	Coordinates	Cover Level	Connections	Code	Pipe Inverts	Dams	Material	Types		
F151	69.320 0.890	2		2	68.630	100	225 x 100	B125		F221	72.225 1.685	0		1	16.000	70.450	100	450 x 3	D400	
E: 28781.195 N: 59603.547	0	11.000	68.630	100						E: 28759.712 N: 59003.133	0	16.001	70.450	100						
F160	69.390 2.205	1		1	65.365	100		B125		F222	69.600 1.810	4		3	10.001	65.365	100	450 x 3	D400	
E: 287820.247 N: 59600.410	0	12.000	65.365	100						E: 287635.622 N: 57990.339	0	16.002	67.640	150						
F172	67.392 1.022	1		1	66.200	100	450 x 3	B125		F231	69.650 1.100	0		1	17.000	68.450	100	450 x 3	B125	
E: 287765.342 N: 59604.095	0	13.000	66.210	150						E: 287630.776 N: 57997.593	0	17.000	68.450	100						
F191	72.479 0.989	2		2	72.410	100	225 x 100	B125		F240	68.100 0.850	1		1	17.000	67.150	100	225 x 4	B125	
E: 287556.231 N: 57900.108	0	14.000	72.410	100						E: 287668.922 N: 59015.360	0	18.000	67.150	100						
F192	71.656 1.796	3		3	69.790	100	450 x 3	D400		F253	74.690 0.500	1		2	18.000	74.000	100	450 x 3	B125	
E: 287765.629 N: 57981.581	0	14.001	69.790	100						E: 287664.455 N: 57933.740	0	18.001	72.780	150						
F193	71.169 1.799	2		2	69.270	100	450 x 3	D400		F254	74.139 1.209	0		1	19.001	72.830	1200 x 2	D400		
E: 287930.414 N: 57953.822	0	14.002	69.270	100						E: 287719.167 N: 57971.054	0	18.002	69.350	150						
F194	70.413 1.813	2		2	69.500	100	450 x 3	D400		F255	70.921 1.421	0		3	21.000	69.400	100	1200 x 2	D400	
E: 287603.819 N: 57944.254	0	14.003	69.500	100						E: 287766.630 N: 57971.054	0	18.002	69.660	100						
F195	69.665 1.705	3		3	67.880	100	1000 x 2	D400		F256A	68.760 0.940	1		1	67.820	100	450 x 3	B125		
E: 287818.368 N: 57978.697	0	14.004	67.810	150						E: 287762.011 N: 59001.635	0	18.003	67.820	100						
F196	68.817 1.627	1		1	67.040	150	450 x 3	B125		F257	67.692 1.852	1		3	23.000	65.740	100	450 x 3	D400	
E: 287976.681 N: 57973.883	0	14.005	67.040	150						E: 287735.117 N: 59027.182	0	18.004	65.690	150						
F197	68.450 1.500	1		1	66.000	150	1200 x 3	B125		PHASE 1 F257A	67.820 0.940	0		3	18.004	66.790	100	450 x 3	D400	
E: 287848.625 N: 57979.395	0	14.006	66.890	150						E: 287735.338 N: 59017.564	0	18.004	66.790	100						
F198	68.000 1.800	1		1	64.000	150	1200 x 2	B125		PHASE 1 F257B	67.820 0.940	0		3	18.004	66.790	100	450 x 3	D400	
E: 287975.450 N: 57975.382	0	14.007	64.000	150						E: 287735.338 N: 59017.564	0	18.004	66.790	100						
F199	67.430 1.980	1		1	65.300	150	450 x 3	D400		PHASE 1 F258	67.235 0.685	0		1	65.500	100	450 x 3	B125		
E: 287976.892 N: 59015.895	0	14.008	65.300	150						E: 287735.086 N: 59028.674	0	65.500	100							
F200	66.897 1.821	1		1	64.800	150	1200 x 3	D400		PHASE 1 F260	74.300 0.770	0		2	73.430	100	225 x 4	B125		
E: 287702.714 N: 59004.122	0	14.009	64.800	150						E: 287835.515 N: 57925.204	0	20.000	73.430	100						
F201	66.627 1.720	2		2	64.657	150	1200 x 3	D400		PHASE 1 F274	70.275 0.645	0		2	69.440	100	450 x 3	A15		
E: 287774.563 N: 59087.790	0	14.010	64.657	150						E: 287789.520 N: 57977.553	0	21.000	69.440	100						
F202	66.644 1.983	1		1	64.511	150	1200 x 3	D400		PHASE 1 F280	68.875 0.775	0		3	68.000	100	225 x 4	A15		
E: 287702.501 N: 59067.710	0	14.011	64.511	150						E: 287789.879 N: 59006.762	0	22.000	68.000	100						
F211	69.161 1.251	3		3	66.410	100	450 x 3	B125		F290	67.850 1.000	2		2	66.810	100	225 x 4	A15		
E: 287816.637 N: 57945.690	0	15.000	66.410	100						E: 287744.044 N: 59027.023	0	23.000	67.780	100						
F220	72.250 0.890	2		2	71.300	100	225 x 100	B125		F300	74.560 0.670	2		2	74.190	100	225 x 4	B125		
E: 287952.181 N: 59001.391	0	16.000	71.300	100						E: 287846.522 N: 57955.929	0	24.000	74.180	100						

AND LATERALS TO BE VERIFIED PRIOR TO COMMENCEMENT OF WORKS.

7. RA DENOTES ACCESS OPENING TO BE RESTRICTED TO 350mm DIAMETER OR 300mm x 300mm ON TYPE 3 MANHOLES WHERE DEPTH OF CHAMBER TO INVERT IS > 1m.
- SHADING DENOTES MANHOLES APPLICABLE TO PHASE 1 WORKS
- NOTE: SPURS AND LATERALS TO BE PROVIDED FOR FUTURE PHASING AS REQUIRED

MANHOLE SCHEDULE

MANHOLE SCHEDULE

Sheet 5 of 12

Manhole Number	Cover Description	Connections	Pipe	Manhole Internal diam	Types
Coordinates	Depth (ft)		Inverts	Inverts	Manhole Cover
F221	72.235		16.000	70.450	100
E 28797.712	1.665	0	16.001	70.550	100
N 58002.133		0	17.000	67.550	100
E 28797.933		0	16.001	69.550	100
F222	69.600		16.000	69.550	100
E 28793.622	1.810	0	16.001	69.550	100
N 57900.330		0	16.002	67.600	150
F231	69.650		17.000	68.650	100
E 28793.776	1.100	0	17.000	68.650	100
N 57979.535		0	17.000	68.650	100
F240	68.100		17.000	67.150	100
E 28796.622	0.850	0	17.000	67.150	100
N 58018.200		0	18.000	67.150	100
F253	74.600		74.000	74.000	100
E 28796.136	0.500	0	19.000	74.090	100
N 57935.989		0	19.000	74.090	100
F254	74.139		20.000	72.830	100
E 28794.455	1.209	0	19.000	72.830	100
N 57933.740		0	19.001	72.830	150
F255	70.252		19.001	68.950	150
E 28794.555	1.427	0	19.001	68.950	150
N 57971.534		0	19.002	68.950	150
F256	68.977		22.000	66.610	150
E 28793.530	1.817	0	22.000	66.610	100
N 58006.586		0	19.003	66.610	100
F256A	68.970		67.820		100
E 28792.011	0.840	0			450
N 58001.535		0	67.820		100
F257	67.682		19.003	65.600	150
E 28793.117	1.882	0	23.000	65.640	100
N 58001.182		0	19.004	65.600	150
F257A	67.630		66.700		100
E 28792.338	0.840	0	66.700		100
N 58017.554		0	66.700		100
F258	67.285		66.600	66.600	100
E 28793.096	0.855	0	66.600	66.600	100
N 58005.974		0	66.600	66.600	100
F260	74.300		73.430		100
E 28796.520	0.775	0	73.430		100
N 57977.535		0	73.430		100
F274	70.450		68.140		100
E 28796.520	0.745	0	68.140		100
N 57977.535		0	68.140		100
F280	68.875		68.000	68.000	100
E 28796.979	0.775	0	68.000	68.000	100
N 58008.952		0	68.000	68.000	100
F290	67.850		66.610		100
E 28794.044	1.000	0	66.610		100
N 58027.025		0	66.610		100
F300	74.550		66.750		100
E 28794.622	0.870	0	74.180		100
N 57983.026		0	74.180		100
F301	75.438		74.620		100
E 28796.437	1.716	0	74.620		100
N 58024.860		0			

MANHOLE SCHEDULE
Sheet 5 of 12

MANHOLE SCHEDULE

[illegible]

DO NOT SCALE THIS DRAWING
CONTRACTOR TO CHECK ALL DIMENSIONS AND
REPORT ALL ERRORS AND OMISSIONS TO THE
ENGINEER

[illegible]