



- Notes**
- Setting out shall be undertaken using only the information given. Distances should not be scaled from this drawing.
 - All sewers shall be constructed in accordance with Design and Construction Guidance (DCG) Standards and United Utilities Details & Guidelines.
 - The minimum gravity pipe diameter under adoptable highways shall be 150mm.
 - It is the responsibility of the Contractor to verify all information given with regards to existing services and drainage connections etc. prior to commencing the works. The rates shall include for hand dig around services where necessary. The Contractor shall adhere to the CDM Regulations at all times.
 - All materials to bear the relevant B.S. Kitemark and comply fully with the specifications. All concrete & concrete products must use Sulphate resistant cement to withstand Class 3 condition (unless the site investigation report proves that sulphate attack from soils and groundwater will not occur).
 - All opening notices etc. as required under Highways Acts etc. are to be obtained prior to commencement of works. All works are to be inspected by L.A., NHBC or the Network Operator as applicable.
 - Where structured wall UPVC pipes (or similar approved) are used in adoptable drainage they shall be handled and laid in accordance with the manufacturers instructions and will be subject to post installation deformation testing prior to adoption. A Class 5 Bed and Surround must be used for structured wall pipes.
 - Trench backfill in highways to within 1m of highway shall, as directed by the Highway Authority be a suitable granular material all in accordance with Design and Construction Guidance (DCG) Standards.
 - Slab levels shall not be varied without reference to the Engineer for guidance.
 - Pipes have not been designed to accommodate construction traffic loading. The contractor is responsible for providing adequate protection to the pipes during construction.

STORM Network 1

Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Type	Number	Upstream Manhole Invert	Cover	Number	Downstream Manhole Invert	Cover
1.000	300	240	Circular	S101	90.38	91.88	S102	90.22	93.01
1.001	300	240	Circular	S102	90.22	93.01	S103	90.16	93.48
1.002	450	400	Circular	S103	90.01	93.48	S104	89.98	93.76
1.003	450	400	Circular	S104	89.98	93.76	S105	89.92	93.85
1.004	450	400	Circular	S105	89.92	93.85	S106	89.88	93.64
1.005	450	400	Circular	S106	89.88	93.64	S107	89.85	93.15
1.006	450	26	Circular	S107	89.85	93.15	S108	88.15	91.05
1.007	450	26	Circular	S108	88.15	91.05	S109	87.70	90.49
1.008	450	26	Circular	S109	87.70	91.70	S110	87.00	89.50
1.009	450	26	Circular	S110	87.00	89.50	S111	86.24	88.49
1.010	450	26	Circular	S111	86.24	88.49	S112	85.84	87.69
1.011	450	26	Circular	S112	85.84	87.69	S113	85.95	89.90
1.012	450	29	Circular	S113	85.05	86.90	S114	84.83	86.28
1.013	450	29	Circular	S114	85.45	86.28	S115	82.10	84.18
1.014	325	31	Circular	S115	83.03	85.57	S116	82.10	84.18
1.015	325	33	Circular	S116	82.10	84.18	S117	81.87	83.59
1.016	325	34	Circular	S117	81.87	83.59	S118	81.32	83.15
1.017	325	35	Circular	S118	81.32	83.15	S119	81.01	82.74
1.018	325	36	Circular	S119	81.01	82.74	S120	80.70	82.43
1.019	600	80	Circular	S120	80.83	82.43	S121	80.20	82.07
1.020	600	130	Circular	S121	80.20	82.07	S122	80.07	82.55
2.000	225	170	Circular	S601	90.61	92.03	S602	90.52	92.55
2.001	225	170	Circular	S602	90.52	92.55	S603	90.46	92.83
2.002	225	170	Circular	S603	90.46	92.83	S604	90.41	93.04
2.003	225	170	Circular	S604	90.41	93.04	S605	90.35	93.18
2.004	225	111	Circular	S605	90.35	93.18	S103	90.23	93.48
3.000	225	40	Circular	S606	94.56	95.97	S607	93.65	95.16
3.001	225	19	Circular	S607	93.65	95.16	S608	93.30	94.82
3.002	225	19	Circular	S608	93.30	94.82	S609	92.83	94.34
3.003	225	19	Circular	S609	92.83	94.34	S610	92.35	93.86
3.004	225	11	Circular	S610	92.35	93.86	S611	91.38	93.64
4.000	225	170	Circular	S611	91.44	92.86	S612	91.38	93.05
4.001	225	26	Circular	S612	91.38	93.05	S613	90.81	92.57
4.002	225	22	Circular	S613	90.49	91.91	S614	90.11	91.53
4.003	225	21	Circular	S614	90.11	91.53	S615	89.72	91.23
4.004	225	34	Circular	S615	89.72	91.23	S616	89.51	91.01
4.005	225	28	Circular	S616	89.51	91.01	S617	89.06	90.49
4.006	300	31	Circular	S617	88.89	90.49	S618	88.56	90.06
4.007	300	12	Circular	S618	88.55	90.10	S110	87.15	89.50
5.000	300	240	Circular	S619	83.96	85.91	S620	83.76	86.04
5.001	375	300	Circular	S620	83.69	85.04	S621	83.66	85.12
5.002	375	300	Circular	S621	83.66	85.12	S622	83.64	86.19
5.003	375	300	Circular	S622	83.64	86.19	S114	83.00	86.28
6.000	325	50	Circular	S623	85.80	87.38	S624	84.70	86.66
6.001	300	23	Circular	S624	84.62	86.66	S625	84.29	86.34
6.002	300	20	Circular	S625	84.29	86.34	S115	83.25	85.87
7.000	600	39	Circular	S123	79.77	81.52	S124	79.15	82.05
7.001	300	46	Circular	S125	79.15	82.05	S126	78.88	81.61
7.002	300	238	Circular	S126	78.88	81.61	S127	78.72	80.73
7.003	300	241	Circular	S127	78.72	80.73	S128	78.63	80.29
7.004	300	50	Circular	S128	78.63	80.29	S129	77.52	79.10
7.005	300	36	Circular	S129	77.52	79.10	S130	76.22	77.60
7.006	300	13	Circular	S130	76.22	77.60	S131	73.65	75.50

FOUL Network 2

Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Type	Number	Upstream Manhole Invert	Cover	Number	Downstream Manhole Invert	Cover
1.000	150	80	Circular	F001	90.17	92.21	F002	90.04	92.55
1.001	150	80	Circular	F002	90.04	92.55	F003	89.90	92.85
1.002	150	80	Circular	F003	89.85	93.04	F004	89.77	93.08
1.003	150	80	Circular	F004	89.77	93.08	F005	89.66	93.20
1.004	150	80	Circular	F005	89.66	93.20	F006	89.49	93.39

FOUL Network 3

Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Type	Number	Upstream Manhole Invert	Cover	Number	Downstream Manhole Invert	Cover
1.000	150	33	Circular	F007	94.00	96.00	F008	92.85	95.00
1.001	150	22	Circular	F008	92.85	95.00	F009	92.39	94.56
1.002	150	20	Circular	F009	92.39	94.56	F010	91.88	94.06
1.003	150	8	Circular	F010	91.88	94.06	F011	90.65	93.67

FOUL Network 4

Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Type	Number	Upstream Manhole Invert	Cover	Number	Downstream Manhole Invert	Cover
1.000	150	24	Circular	F012	90.88	92.94	F013	89.90	91.81
1.001	150	18	Circular	F013	89.90	91.81	F014	89.50	91.46
1.002	150	22	Circular	F014	89.50	91.46	F015	89.29	91.24
1.003	150	22	Circular	F015	89.20	91.21	F016	88.90	91.01
1.004	150	53	Circular	F016	88.90	91.01	F017	88.24	90.49
1.005	150	34	Circular	F017	88.24	90.46	F018	87.84	90.03
1.006	150	26	Circular	F018	87.84	90.03	F019	87.35	89.60

FOUL Network 5

Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Type	Number	Upstream Manhole Invert	Cover	Number	Downstream Manhole Invert	Cover
1.000	150	80	Circular	F020	83.68	85.95	F021	83.16	86.08
1.001	150	150	Circular	F021	83.16	86.08	F022	83.09	86.19
1.002	150	150	Circular	F022	83.09	86.19	F023	83.00	86.39

FOUL Network 6

Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Type	Number	Upstream Manhole Invert	Cover	Number	Downstream Manhole Invert	Cover
1.000	150	47	Circular	F024	85.30	87.46	F025	84.22	86.78
1.001	150	28	Circular	F025	84.22	86.78	F026	83.76	86.30
1.002	150	14	Circular	F026	83.78	86.30	F027	82.16	85.70

LEGEND

Drainage

- Existing Foul Water sewer (As-Built)
- Abandoned Foul Sewer
- Proposed Adoptable Surface Water Sewer
- Proposed Adoptable Foul Water Sewer
- Surface Water Attenuation Tanks
- Sewer Easement
- Flow Control

External Works

- Retaining Wall
- Flag on Edge
- Step In Slab
- Underbuild
- Finished Road Level
- Root Protection Areas
- Cut / Fill Levels

STRATEGY

Rev.	Date	Revision	By	Appd.
F	28.05.26	Updated to suit revised layout	PW	AJ
E	05.05.26	Updated to suit revised layout	PW	AJ
D	17.09.25	Updated to suit revised layout	PW	AJ
C	03.09.25	Updated to suit client comment	PW	AJ
B	28.08.25	Updated to suit revised layout	PW	AJ
A	08.01.25	Updated to suit revised layout	PW	AJ

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Taylor Wimpey

Client

Project

STANDEN HALL CLITHEROE

Title

PHASE 6 Engineering Layout

DRAWING NUMBER	SCALE at A0	DATE	REVISION
6263 P6 / SK02	1:500	02.03.22	F
		DRAWN	LW
		CHECKED	AJ