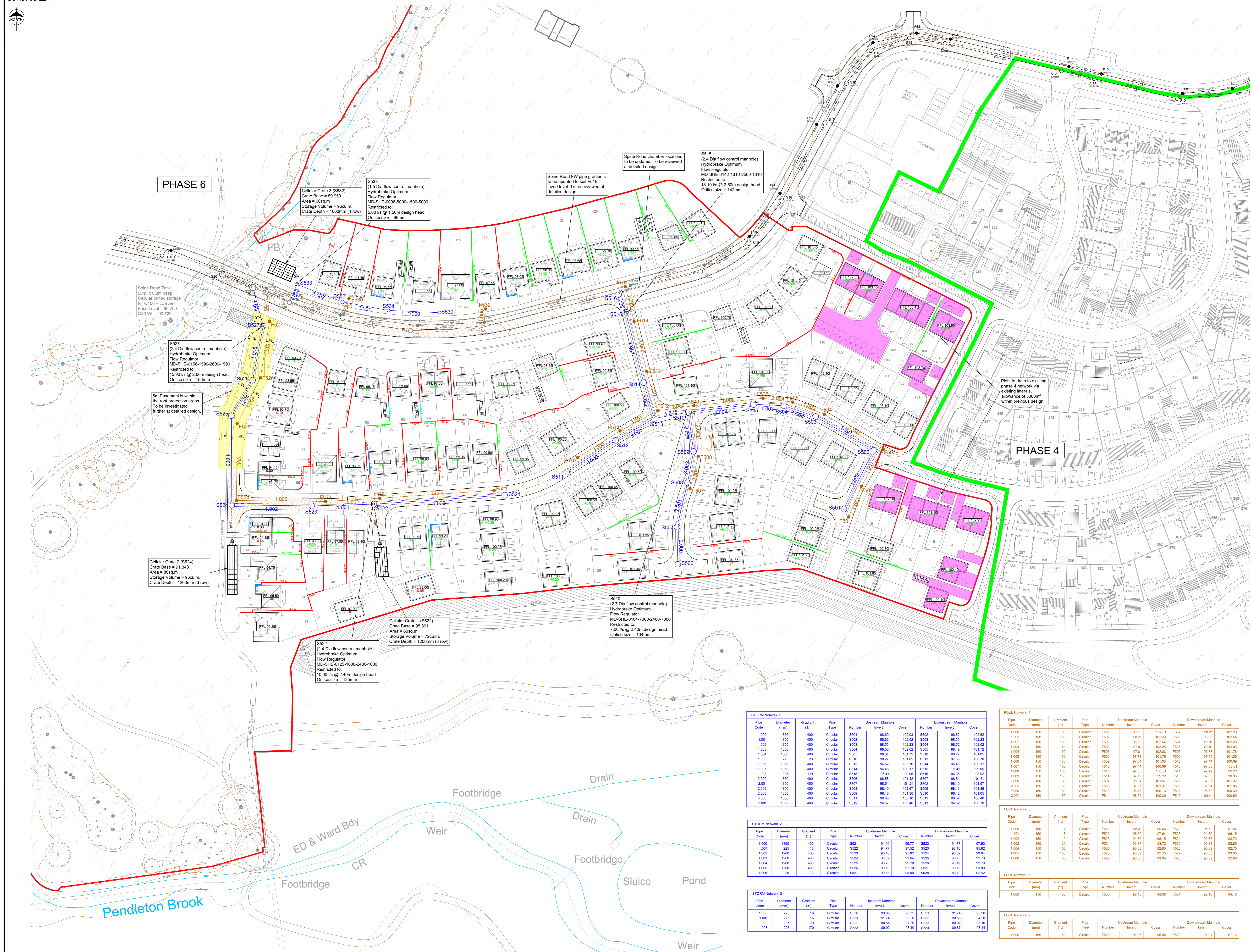
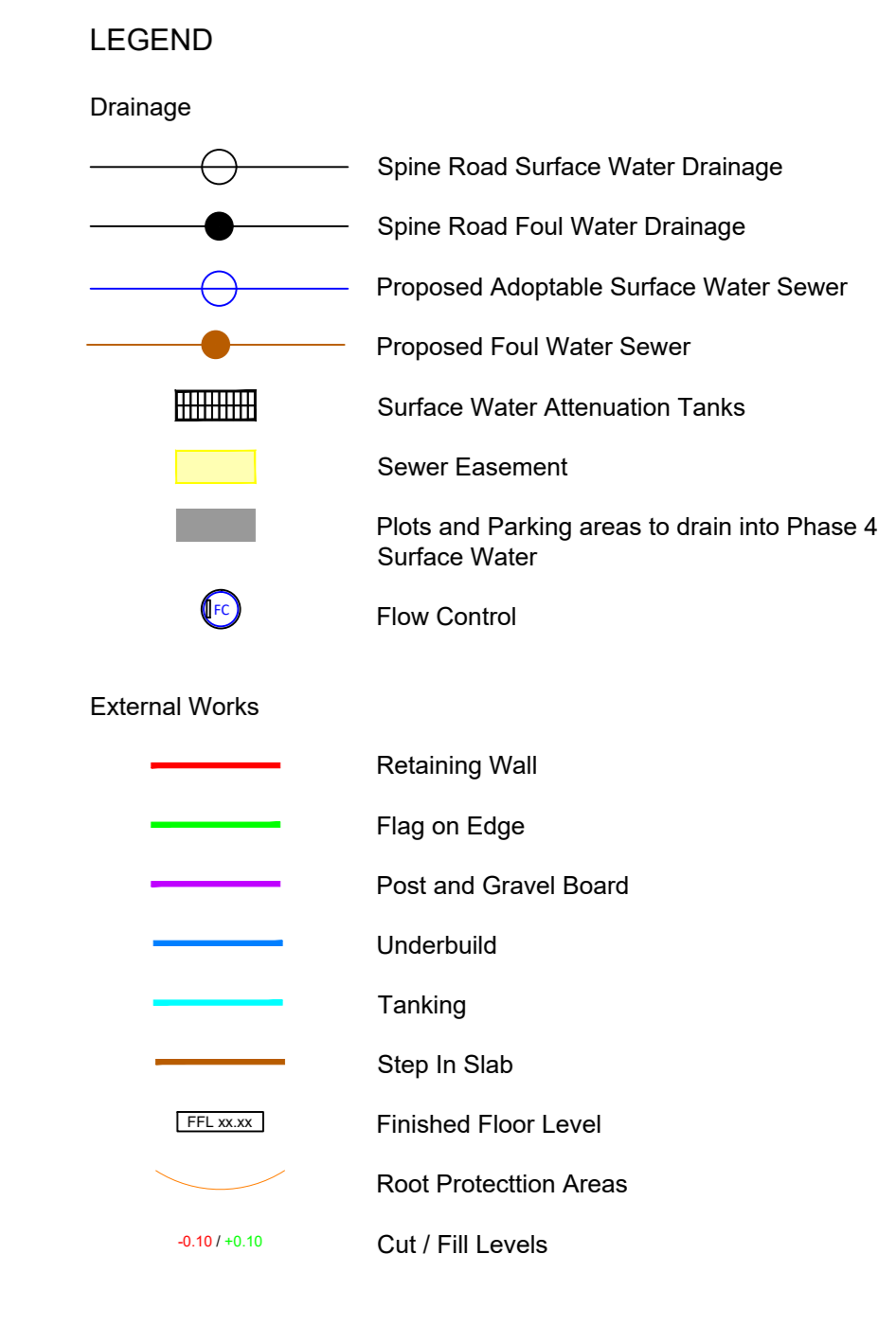


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- Notes**
- Setting out shall be undertaken using only the information given. Distances should not be scaled from this drawing.
 - All sewers shall be constructed in accordance with Design and Construction Guidance (DCG) Standards and United Utilities 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 & kerne 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.



STRATEGY

Rev.	Date	Revision	By	Appd.
F	28.05.26	Updated to suit revised layout	PW	AJ
E	29.04.26	Updated to suit revised layout	PW	AJ
D	17.09.25	Updated to suit revised layout	PW	AJ
C	28.08.25	Updated to suit revised layout	PW	AJ
B	08.01.25	Updated to suit revised layout	PW	AJ
A	17.03.22	Updated to suit client comments	LW	LW

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Client: **Taylor Wimpey**

Project: **STANDEN HALL CLITHEROE**

Title: **PHASE 5 Engineering Layout**

STORM Network 1

Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Type	Number	Upstream Manhole Invert	Cover	Number	Downstream Manhole Invert	Cover
1.000	1350	400	Circular	S501	88.69	102.03	S502	98.82	102.52
1.001	1350	400	Circular	S502	98.82	102.52	S503	98.58	102.23
1.002	1350	400	Circular	S503	98.58	102.23	S504	98.52	102.02
1.003	1350	400	Circular	S504	98.52	102.02	S505	98.49	101.72
1.004	1500	400	Circular	S505	98.34	101.72	S510	98.27	101.05
1.005	225	23	Circular	S510	98.27	101.05	S513	97.85	100.70
1.006	1350	400	Circular	S513	96.52	100.70	S514	96.48	100.17
1.007	1350	400	Circular	S514	96.48	100.17	S515	96.41	99.95
1.008	225	171	Circular	S515	96.41	99.05	S516	96.36	98.92
2.000	1350	400	Circular	S506	98.58	101.42	S507	98.54	101.61
2.001	1350	400	Circular	S507	98.54	101.61	S508	98.48	101.57
2.002	1350	400	Circular	S508	98.49	101.57	S509	98.48	101.36
2.003	1350	400	Circular	S509	98.48	101.36	S510	98.42	101.05
3.000	1350	400	Circular	S511	96.03	100.10	S512	96.57	100.40
3.001	1350	400	Circular	S512	96.57	100.40	S513	96.52	100.70

STORM Network 2

Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Type	Number	Upstream Manhole Invert	Cover	Number	Downstream Manhole Invert	Cover
1.000	1500	400	Circular	S521	94.80	99.77	S522	94.77	97.52
1.001	225	15	Circular	S522	94.77	97.52	S523	93.10	96.82
1.002	1000	400	Circular	S523	90.40	95.62	S524	90.32	93.84
1.003	1000	400	Circular	S524	90.32	93.64	S525	90.23	92.79
1.004	1000	400	Circular	S525	90.23	92.79	S526	90.19	92.70
1.005	1000	400	Circular	S526	90.19	92.70	S527	90.13	93.00
1.006	225	12	Circular	S527	90.13	93.00	S528	88.72	92.42

STORM Network 3

Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Type	Number	Upstream Manhole Invert	Cover	Number	Downstream Manhole Invert	Cover
1.000	225	16	Circular	S530	93.05	96.35	S531	91.74	95.20
1.001	225	16	Circular	S531	91.74	95.20	S532	90.55	94.20
1.002	225	16	Circular	S532	90.55	94.20	S533	89.92	93.10
1.003	225	170	Circular	S533	89.92	93.10	S534	89.87	93.14

FOWL Network 4

Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Type	Number	Upstream Manhole Invert	Cover	Number	Downstream Manhole Invert	Cover
1.000	150	80	Circular	F501	98.38	102.01	F502	98.21	102.23
1.001	150	150	Circular	F502	98.21	102.23	F503	98.09	102.54
1.002	150	150	Circular	F503	98.09	102.54	F504	97.91	102.25
1.003	150	150	Circular	F504	97.91	102.25	F505	97.81	102.03
1.004	150	150	Circular	F505	97.81	102.03	F506	97.73	101.70
1.005	150	150	Circular	F506	97.73	101.70	F509	97.54	101.05
1.006	150	150	Circular	F509	97.54	101.05	F512	97.44	100.69
1.007	150	150	Circular	F512	97.44	100.69	F513	97.33	100.01
1.008	150	150	Circular	F513	97.33	100.01	F514	97.19	99.22
1.009	150	150	Circular	F514	97.19	99.22	F515	97.09	98.96
2.000	150	80	Circular	F507	98.04	101.57	F508	97.87	101.37
2.001	150	80	Circular	F508	97.87	101.37	F509	97.54	101.05
3.000	150	150	Circular	F510	98.78	100.13	F511	98.52	100.39
3.001	150	150	Circular	F511	98.52	100.39	F512	98.41	100.69

FOWL Network 5

Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Type	Number	Upstream Manhole Invert	Cover	Number	Downstream Manhole Invert	Cover
1.000	150	17	Circular	F521	98.31	99.66	F522	95.52	97.64
1.001	150	16	Circular	F522	95.52	97.64	F523	94.30	96.15
1.002	150	19	Circular	F523	94.30	96.15	F524	92.37	93.72
1.003	150	20	Circular	F524	92.37	93.72	F525	90.83	92.85
1.004	150	150	Circular	F525	90.83	92.85	F526	90.69	92.75
1.005	150	150	Circular	F526	90.69	92.75	F527	90.53	93.95
1.006	150	66	Circular	F527	90.53	93.95	F528	90.32	92.60

FOWL Network 6

Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Type	Number	Upstream Manhole Invert	Cover	Number	Downstream Manhole Invert	Cover
1.000	150	150	Circular	F530	92.15	94.38	F531	92.10	94.18

FOWL Network 7

Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Type	Number	Upstream Manhole Invert	Cover	Number	Downstream Manhole Invert	Cover
1.000	150	150	Circular	F532	94.97	96.95	F533	94.94	97.13