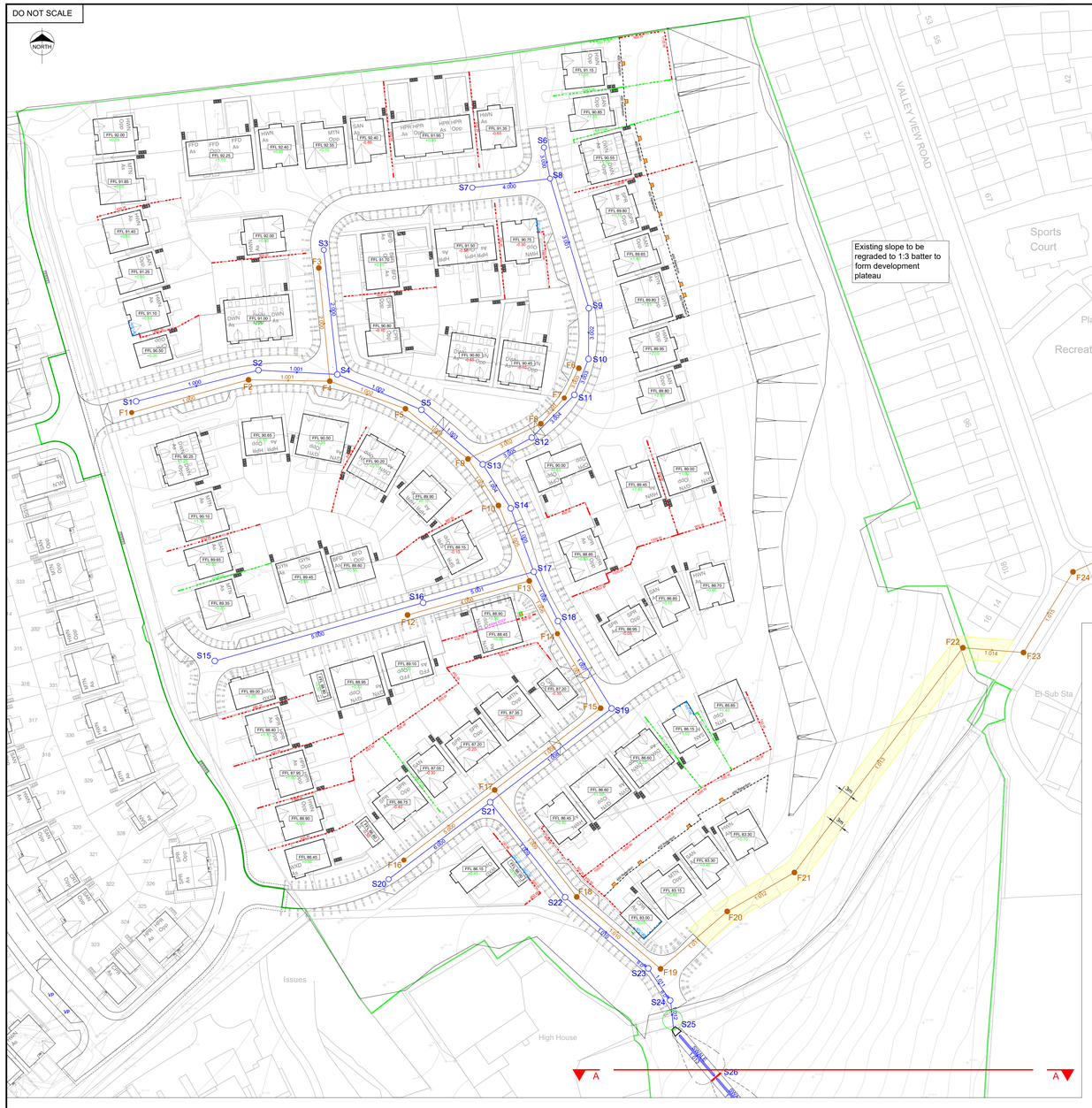
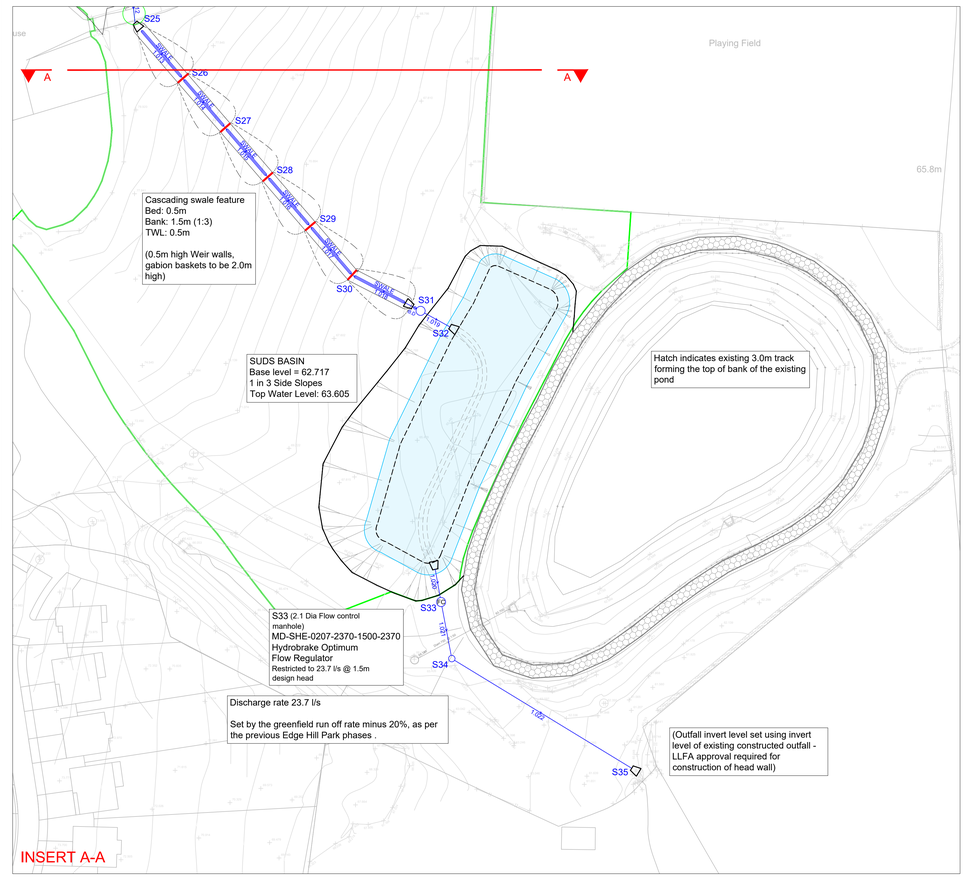
DO NOT SCALE





INSERT A-A

Legend

- Site Boundary
- Existing
  - Existing Sewer
- Proposed
  - Adoptable Surface Water Sewer
  - Adoptable Foul Sewer
  - Attenuation Pond base
  - FFL 47.40 — Slab Level
  - Retaining Wall
  - Underbuild
  - Flag on edge
  - Step In Slab
  - Retention below 300mm not indicated
  - +0.85 / -0.95 — Depth of fill (Existing levels to proposed)

Notes

1. Setting out shall be undertaken using only the information given. Distances should not be scaled from this drawing.
2. All sewers shall be constructed in accordance with Design and Construction Guidance (DCG) Standards and United Utilities Details & Guidelines.
3. The minimum gravity pipe diameter under adoptable highways shall be 150mm
4. 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
8. 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).
9. 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.
10. 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 S Bed and Surround must be used for structured wall pipes
11. 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.
12. Slab levels shall not be varied without reference to the Engineer for guidance.
13. 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	Dimensions (mm)	Gradient (1:)	Section Type	Pipe Type	Pipe Length	Upstream Manhole Number	Upstream Manhole Invert	Upstream Manhole Cover	Downstream Manhole Number	Downstream Manhole Invert	Downstream Manhole Cover
1.000	300	240	Circular	CLAY	32.937	S1	89.03	90.53	S2	88.89	90.67
1.001	300	128	Circular	CLAY	20.600	S2	88.89	90.67	S4	88.73	90.52
1.002	300	94	Circular	CLAY	23.844	S4	88.73	90.52	S5	88.48	90.27
1.003	300	23	Circular	CLAY	21.403	S5	88.48	90.27	S13	87.54	89.96
1.004	375	100	Circular	CONC	13.604	S13	87.47	89.96	S14	87.33	89.42
1.005	375	22	Circular	CONC	17.618	S14	87.33	89.42	S17	86.51	88.56
1.006	375	29	Circular	CONC	14.351	S17	86.51	88.56	S18	86.02	87.85
1.007	375	26	Circular	CONC	26.753	S18	86.02	87.85	S19	85.00	86.72
1.008	450	37	Circular	CONC	40.028	S19	84.92	86.72	S21	83.84	86.48
1.009	450	27	Circular	CONC	31.587	S21	83.84	86.48	S22	82.65	84.66
1.010	450	26	Circular	CONC	28.563	S22	81.30	84.66	S23	80.21	81.84
1.011	450	405	Circular	CONC	10.127	S23	79.02	81.84	S24	78.99	80.79
1.012	450	400	Circular	CONC	8.926	S24	78.99	80.79	S25	78.97	80.00
1.013	500x500	13	Swale 1:3		15.001	S25	78.92	80.00	S26	77.77	78.02
1.014	500x500	13	Swale 1:3		14.999	S26	76.57	78.02	S27	75.41	75.34
1.015	500x500	13	Swale 1:3		15.000	S27	74.21	75.34	S28	73.06	72.68
1.016	500x500	13	Swale 1:3		15.001	S28	71.86	72.68	S29	70.70	70.49
1.017	500x500	13	Swale 1:3		15.000	S29	69.50	70.49	S30	68.35	68.14
1.018	500x500	7	Swale 1:3		17.758	S30	67.15	68.14	S31	64.47	65.64
1.019	675	318	Circular	CONC	7.643	S31	62.90	65.64	S32	62.88	64.30
1.020	675	400	Circular	CONC	63.603	S32	62.88	64.30	S33	62.72	65.69
1.021	225	58	Circular	CLAY	13.293	S33	62.72	65.69	S34	62.49	65.42
1.022	225	15	Circular	CLAY	48.553	S34	62.49	65.42	S35	59.27	60.67
2.000	225	34	Circular	CLAY	32.691	S3	89.78	91.51	S4	88.81	90.52
3.000	225	20	Circular	CLAY	8.301	S6	89.41	90.84	S8	89.00	90.42
3.001	225	29	Circular	CLAY	35.277	S8	89.00	90.42	S9	87.79	89.41
3.002	375	301	Circular	CONC	13.281	S9	87.64	89.41	S10	87.60	89.67
3.003	375	300	Circular	CONC	10.073	S10	87.60	89.67	S11	87.57	89.87
3.004	375	300	Circular	CONC	15.737	S11	87.57	89.87	S12	87.51	90.06
3.005	375	300	Circular	CONC	14.560	S12	87.51	90.06	S13	87.47	89.96
4.000	225	26	Circular	CLAY	20.404	S7	89.77	91.19	S8	89.00	90.42
5.000	300	170	Circular	CLAY	56.437	S15	87.30	89.04	S16	86.97	89.14
5.001	300	79	Circular	CLAY	30.010	S16	86.97	89.14	S17	86.59	88.56
6.000	225	58	Circular	CLAY	33.276	S20	84.64	86.07	S21	84.07	86.48

FOUL Network 1

Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Type	Pipe Length	Upstream Manhole Number	Upstream Manhole Invert	Upstream Manhole Cover	Downstream Manhole Number	Downstream Manhole Invert	Downstream Manhole Cover
1.000	150	135	CLAY	31.664	F1	88.80	90.61	F2	88.56	90.66
1.001	150	74	CLAY	21.217	F2	88.56	90.66	F4	88.28	90.55
1.002	150	135	CLAY	21.015	F4	88.28	90.55	F5	88.12	90.31
1.003	150	19	CLAY	20.926	F5	88.12	90.31	F9	87.00	90.05
1.004	150	134	CLAY	14.522	F9	87.00	90.05	F10	86.89	89.53
1.005	150	27	CLAY	21.267	F10	86.89	89.53	F13	86.10	88.47
1.006	150	26	CLAY	15.617	F13	86.10	88.47	F14	85.50	87.71
1.007	150	25	CLAY	22.479	F14	85.50	87.71	F15	84.63	86.76
1.008	150	28	CLAY	34.934	F15	84.63	86.76	F17	83.40	86.52
1.009	150	33	CLAY	35.162	F17	83.40	86.52	F18	82.32	84.47
1.010	150	13	CLAY	28.841	F18	82.32	84.47	F19	80.16	81.61
1.011	150	136	CLAY	22.958	F19	80.16	81.61	F20	79.99	81.47
1.012	150	21	CLAY	20.274	F20	79.99	81.47	F21	79.02	80.37
1.013	150	14	CLAY	73.300	F21	79.02	80.37	F22	73.89	75.24
1.014	150	7	CLAY	15.878	F22	73.89	75.24	F23	71.65	73.00
1.015	150	10	CLAY	24.706	F23	71.65	73.00	F24	69.10	70.90
1.016	150	19	CLAY	73.734	F24	69.10	70.90	F25	65.28	67.09
1.017	150	28	CLAY	18.067	F25	65.28	67.09	F26	64.64	67.09
2.000	150	29	CLAY	29.698	F3	89.30	91.35	F4	88.28	90.55
3.000	150	135	CLAY	8.654	F6	88.13	89.73	F7	88.07	89.91
3.001	150	136	CLAY	9.091	F7	88.07	89.91	F8	88.00	90.05
3.002	150	21	CLAY	21.109	F8	88.00	90.05	F9	87.00	90.05
4.001	150	135	CLAY	33.000	F12	86.34	89.21	F13	86.10	88.47
5.000	150	30	CLAY	29.945	F16	84.40	86.14	F17	83.40	86.52

STRATEGY

Rev.	Date	Revision	By	Appd.
K	08.03.23	Updated to suit client comments	PW	AJ
J	02.03.23	Updated to suit revised planning layout	PW	AJ
I	01.12.22	Foul outfall route updated	PW	AJ
H	14.10.22	Foul easement updated	PW	AJ
G	27.07.22	Updated to suit revised planning layout	JAR	AJ
F	08.07.22	Updated to suit revised planning layout	JAR	AJ
E	16.06.22	Updated to suit revised planning layout	JAR	AJ
D	11.05.22	Updated to suit revised planning layout	JAR	AJ
C	27.04.22	Updated to suit revised planning layout	JAR	AJ
B	05.04.22	Revised outfall - Online pond added (draft)	JAR	AJ
A	10.02.22	Updated to suit revised planning layout	JAR	AJ

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Client: Story Homes

Project: EDGEHILL PARK, CUMBRIA PHASE 4

Title: Drainage Strategy

DRAWING NUMBER	SCALE at A0	1:500	REVISION
7843 / SK04	DATE	30.11.21	K
	DRAWN	JAR	
	CHECKED	AJ	