

[REDACTED]

From: Webster, Gary [REDACTED]
Sent: 15 May 2020 15:22
To: Jones, Julian D; Maria Tomalova
Cc: Gateley, Jon
Subject: RE: BN/18/20/PL, Former Brooks Nursery
Attachments: 4482-506(D) S104 Layout Phase 2.pdf; 4482-510A Foul Outfall Rising Main Details.pdf; 4482.502E Phase 1 Section 104 layout.pdf

Maria

The drainage engineers comments appear to be out dated

A meeting was held with Paul Cann and Rosemarie Dannatt , just before lockdown, and it was agreed to leave the existing ditch and not infill. This was due to ecological & wildlife benefits

The storage calculations for the surface water pond were also not required to be updated, as its current capacity allows for foul water storage too, which will be no longer required. We were simply asked to bund off the redundant incoming swale.

Finally, the long section requested was already shown on drawing no, 4482.510A , which I attach for reference along with the other engineers drawings which were agreed at the meeting

I trust that this clarifies matters, however if you require anything else please do not hesitate to contact me

Regards
Gary



Gary Webster
Technical Director
BDW Southampton



<http://www.barrattdevelopments.co.uk>

BDW Southampton | Tollbar House | Tollbar Way
Hedge End | Southampton SO30 2UH

From: Jones, Julian D [REDACTED]
Sent: 15 May 2020 14:59
To: Maria Tomalova <Maria.Tomalova@arun.gov.uk>
Cc: Webster, Gary [REDACTED] Gateley, Jon [REDACTED]
Subject: BN/18/20/PL, Former Brooks Nursery

Hi Maria

Thank you for your email

I have cc'd our Technical Director, Gary Webster into my response in order that he can address the design issues you have raised

We have no issue with extending the Planning deadline as requested

Julian

Sent from my iPhone

On 15 May 2020, at 2:50 pm, Maria Tomalova <Maria.Tomalova@arun.gov.uk> wrote:



EXTERNAL EMAIL WARNING

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Julian,

With regards to the above application I would like to ask you for your confirmation of an EoT with a new deadline on 26 June 2020.

This application will be decided by the Committee on 24 June 2020.

Meanwhile, I do not know if you had a chance to see the comments of our Drainage Engineers:

In terms of the proposals effect on the existing suds (surface water drainage system), I would like to make the following comments;

- a) The open channel/ditch in which the sewage treatment plant discharges into at present, before it connects into the suds pond, is proposed to be infilled.
The applicant will need to provide written confirmation with supporting calculations to prove that the storage for surface water within the suds system is not compromised as a result.
- b) Where the proposed rising crosses the incoming surface water outfall to the pond and the known land drain running parallel to the eastern boundary of the development, the applicant should provide a longitudinal section to prove no impact on these pipelines.

If can provide the required as soon as possible it would be great.

Kind regards

Maria

Maria Tomalova | Senior Planning Officer, Directorate of Place, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

Internal: 37510 | External: +44 (0) 1903 737510 | E-mail: maria.tomalova@arun.gov.uk

<image003.jpg>

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Michael A Jennings Associates					Page 1		
58-62 Ock Street Abingdon Oxon OX14 5BZ		Brooks Nursery Barnham Barratts DWH					
Date 11.11.13 File 4482 Pond111113.srcx		Designed by C.Pendle Checked by					
Micro Drainage		Source Control 2013.1.1					
<u>Summary of Results for 100 year Return Period (+30%)</u>							
Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Overflow (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
15 min Summer	8.857	0.357	8.6	0.0	8.6	182.4	O K
30 min Summer	8.955	0.455	8.6	0.0	8.6	243.8	O K
60 min Summer	9.048	0.548	8.6	0.0	8.6	307.0	O K
120 min Summer	9.130	0.630	8.6	0.0	8.6	366.2	O K
180 min Summer	9.168	0.668	8.6	0.0	8.6	394.1	O K
240 min Summer	9.186	0.686	8.6	0.0	8.6	408.1	O K
360 min Summer	9.201	0.701	8.6	0.0	8.6	419.9	O K
480 min Summer	9.202	0.702	8.6	0.0	8.6	420.4	O K
600 min Summer	9.198	0.698	8.6	0.0	8.6	417.7	O K
720 min Summer	9.194	0.694	8.6	0.0	8.6	413.9	O K
960 min Summer	9.181	0.681	8.6	0.0	8.6	404.3	O K
1440 min Summer	9.152	0.652	8.6	0.0	8.6	382.0	O K
15 min Winter	8.893	0.393	8.6	0.0	8.6	204.8	O K
30 min Winter	9.000	0.500	8.6	0.0	8.6	273.7	O K
60 min Winter	9.102	0.602	8.6	0.0	8.6	345.2	O K
120 min Winter	9.193	0.693	8.6	0.0	8.6	413.3	O K
180 min Winter	9.235	0.735	8.8	0.0	8.8	446.6	O K
240 min Winter	9.257	0.757	8.9	0.0	8.9	464.1	O K
360 min Winter	9.278	0.778	9.1	0.0	9.1	481.2	O K
480 min Winter	9.284	0.784	9.1	0.0	9.1	485.5	O K
600 min Winter	9.280	0.780	9.1	0.0	9.1	482.8	O K
720 min Winter	9.273	0.773	9.0	0.0	9.0	476.4	O K
960 min Winter	9.258	0.758	8.9	0.0	8.9	464.7	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Summer	117.738	0.0	341.3	0.0	23		
30 min Summer	79.135	0.0	405.9	0.0	37		
60 min Summer	50.758	0.0	487.6	0.0	66		
120 min Summer	31.425	0.0	564.6	0.0	126		
180 min Summer	23.382	0.0	611.2	0.0	184		
240 min Summer	18.818	0.0	643.9	0.0	242		
360 min Summer	13.840	0.0	693.3	0.0	362		
480 min Summer	11.120	0.0	731.1	0.0	462		
600 min Summer	9.376	0.0	761.7	0.0	514		
720 min Summer	8.152	0.0	787.6	0.0	576		
960 min Summer	6.531	0.0	830.1	0.0	704		
1440 min Summer	4.769	0.0	893.6	0.0	982		
15 min Winter	117.738	0.0	363.8	0.0	23		
30 min Winter	79.135	0.0	436.1	0.0	37		
60 min Winter	50.758	0.0	526.4	0.0	66		
120 min Winter	31.425	0.0	612.7	0.0	122		
180 min Winter	23.382	0.0	664.8	0.0	180		
240 min Winter	18.818	0.0	701.4	0.0	238		
360 min Winter	13.840	0.0	756.8	0.0	352		
480 min Winter	11.120	0.0	789.1	0.0	462		
600 min Winter	9.376	0.0	833.4	0.0	566		
720 min Winter	8.152	0.0	862.4	0.0	652		
960 min Winter	6.531	0.0	910.0	0.0	746		
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58-62 Ock Street Abingdon Oxon OX14 5BZ		Brooks Nursery Barnham Barratts DWH																													
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Date 11.11.13 File 4482 Pond111113.srcx	Designed by C.Pendle Checked by	
Micro Drainage Source Control 2013.1.1		

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.300	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	1440
Summer Storms	Yes	Climate Change %	+30

Time Area Diagram

Total Area (ha) 0.850

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From:	To:	From:	To:	From:	To:
0	4	4	8	8	12
	0.455		0.362		0.033

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Additional Hydrograph #1													
Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1	1.9	50	1.9	99	1.9	148	1.9	197	1.9	246	1.9	295	1.9
2	1.9	51	1.9	100	1.9	149	1.9	198	1.9	247	1.9	296	1.9
3	1.9	52	1.9	101	1.9	150	1.9	199	1.9	248	1.9	297	1.9
4	1.9	53	1.9	102	1.9	151	1.9	200	1.9	249	1.9	298	1.9
5	1.9	54	1.9	103	1.9	152	1.9	201	1.9	250	1.9	299	1.9
6	1.9	55	1.9	104	1.9	153	1.9	202	1.9	251	1.9	300	1.9
7	1.9	56	1.9	105	1.9	154	1.9	203	1.9	252	1.9	301	1.9
8	1.9	57	1.9	106	1.9	155	1.9	204	1.9	253	1.9	302	1.9
9	1.9	58	1.9	107	1.9	156	1.9	205	1.9	254	1.9	303	1.9
10	1.9	59	1.9	108	1.9	157	1.9	206	1.9	255	1.9	304	1.9
11	1.9	60	1.9	109	1.9	158	1.9	207	1.9	256	1.9	305	1.9
12	1.9	61	1.9	110	1.9	159	1.9	208	1.9	257	1.9	306	1.9
13	1.9	62	1.9	111	1.9	160	1.9	209	1.9	258	1.9	307	1.9
14	1.9	63	1.9	112	1.9	161	1.9	210	1.9	259	1.9	308	1.9
15	1.9	64	1.9	113	1.9	162	1.9	211	1.9	260	1.9	309	1.9
16	1.9	65	1.9	114	1.9	163	1.9	212	1.9	261	1.9	310	1.9
17	1.9	66	1.9	115	1.9	164	1.9	213	1.9	262	1.9	311	1.9
18	1.9	67	1.9	116	1.9	165	1.9	214	1.9	263	1.9	312	1.9
19	1.9	68	1.9	117	1.9	166	1.9	215	1.9	264	1.9	313	1.9
20	1.9	69	1.9	118	1.9	167	1.9	216	1.9	265	1.9	314	1.9
21	1.9	70	1.9	119	1.9	168	1.9	217	1.9	266	1.9	315	1.9
22	1.9	71	1.9	120	1.9	169	1.9	218	1.9	267	1.9	316	1.9
23	1.9	72	1.9	121	1.9	170	1.9	219	1.9	268	1.9	317	1.9
24	1.9	73	1.9	122	1.9	171	1.9	220	1.9	269	1.9	318	1.9
25	1.9	74	1.9	123	1.9	172	1.9	221	1.9	270	1.9	319	1.9
26	1.9	75	1.9	124	1.9	173	1.9	222	1.9	271	1.9	320	1.9
27	1.9	76	1.9	125	1.9	174	1.9	223	1.9	272	1.9	321	1.9
28	1.9	77	1.9	126	1.9	175	1.9	224	1.9	273	1.9	322	1.9
29	1.9	78	1.9	127	1.9	176	1.9	225	1.9	274	1.9	323	1.9
30	1.9	79	1.9	128	1.9	177	1.9	226	1.9	275	1.9	324	1.9
31	1.9	80	1.9	129	1.9	178	1.9	227	1.9	276	1.9	325	1.9
32	1.9	81	1.9	130	1.9	179	1.9	228	1.9	277	1.9	326	1.9
33	1.9	82	1.9	131	1.9	180	1.9	229	1.9	278	1.9	327	1.9
34	1.9	83	1.9	132	1.9	181	1.9	230	1.9	279	1.9	328	1.9
35	1.9	84	1.9	133	1.9	182	1.9	231	1.9	280	1.9	329	1.9
36	1.9	85	1.9	134	1.9	183	1.9	232	1.9	281	1.9	330	1.9
37	1.9	86	1.9	135	1.9	184	1.9	233	1.9	282	1.9	331	1.9
38	1.9	87	1.9	136	1.9	185	1.9	234	1.9	283	1.9	332	1.9
39	1.9	88	1.9	137	1.9	186	1.9	235	1.9	284	1.9	333	1.9
40	1.9	89	1.9	138	1.9	187	1.9	236	1.9	285	1.9	334	1.9
41	1.9	90	1.9	139	1.9	188	1.9	237	1.9	286	1.9	335	1.9
42	1.9	91	1.9	140	1.9	189	1.9	238	1.9	287	1.9	336	1.9
43	1.9	92	1.9	141	1.9	190	1.9	239	1.9	288	1.9	337	1.9
44	1.9	93	1.9	142	1.9	191	1.9	240	1.9	289	1.9	338	1.9
45	1.9	94	1.9	143	1.9	192	1.9	241	1.9	290	1.9	339	1.9
46	1.9	95	1.9	144	1.9	193	1.9	242	1.9	291	1.9	340	1.9
47	1.9	96	1.9	145	1.9	194	1.9	243	1.9	292	1.9	341	1.9
48	1.9	97	1.9	146	1.9	195	1.9	244	1.9	293	1.9	342	1.9
49	1.9	98	1.9	147	1.9	196	1.9	245	1.9	294	1.9	343	1.9
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344	1.9	393	1.9	442	1.9	491	1.9	540	1.9	589	1.9	638	1.9
345	1.9	394	1.9	443	1.9	492	1.9	541	1.9	590	1.9	639	1.9
346	1.9	395	1.9	444	1.9	493	1.9	542	1.9	591	1.9	640	1.9
347	1.9	396	1.9	445	1.9	494	1.9	543	1.9	592	1.9	641	1.9
348	1.9	397	1.9	446	1.9	495	1.9	544	1.9	593	1.9	642	1.9
349	1.9	398	1.9	447	1.9	496	1.9	545	1.9	594	1.9	643	1.9
350	1.9	399	1.9	448	1.9	497	1.9	546	1.9	595	1.9	644	1.9
351	1.9	400	1.9	449	1.9	498	1.9	547	1.9	596	1.9	645	1.9
352	1.9	401	1.9	450	1.9	499	1.9	548	1.9	597	1.9	646	1.9
353	1.9	402	1.9	451	1.9	500	1.9	549	1.9	598	1.9	647	1.9
354	1.9	403	1.9	452	1.9	501	1.9	550	1.9	599	1.9	648	1.9
355	1.9	404	1.9	453	1.9	502	1.9	551	1.9	600	1.9	649	1.9
356	1.9	405	1.9	454	1.9	503	1.9	552	1.9	601	1.9	650	1.9
357	1.9	406	1.9	455	1.9	504	1.9	553	1.9	602	1.9	651	1.9
358	1.9	407	1.9	456	1.9	505	1.9	554	1.9	603	1.9	652	1.9
359	1.9	408	1.9	457	1.9	506	1.9	555	1.9	604	1.9	653	1.9
360	1.9	409	1.9	458	1.9	507	1.9	556	1.9	605	1.9	654	1.9
361	1.9	410	1.9	459	1.9	508	1.9	557	1.9	606	1.9	655	1.9
362	1.9	411	1.9	460	1.9	509	1.9	558	1.9	607	1.9	656	1.9
363	1.9	412	1.9	461	1.9	510	1.9	559	1.9	608	1.9	657	1.9
364	1.9	413	1.9	462	1.9	511	1.9	560	1.9	609	1.9	658	1.9
365	1.9	414	1.9	463	1.9	512	1.9	561	1.9	610	1.9	659	1.9
366	1.9	415	1.9	464	1.9	513	1.9	562	1.9	611	1.9	660	1.9
367	1.9	416	1.9	465	1.9	514	1.9	563	1.9	612	1.9	661	1.9
368	1.9	417	1.9	466	1.9	515	1.9	564	1.9	613	1.9	662	1.9
369	1.9	418	1.9	467	1.9	516	1.9	565	1.9	614	1.9	663	1.9
370	1.9	419	1.9	468	1.9	517	1.9	566	1.9	615	1.9	664	1.9
371	1.9	420	1.9	469	1.9	518	1.9	567	1.9	616	1.9	665	1.9
372	1.9	421	1.9	470	1.9	519	1.9	568	1.9	617	1.9	666	1.9
373	1.9	422	1.9	471	1.9	520	1.9	569	1.9	618	1.9	667	1.9
374	1.9	423	1.9	472	1.9	521	1.9	570	1.9	619	1.9	668	1.9
375	1.9	424	1.9	473	1.9	522	1.9	571	1.9	620	1.9	669	1.9
376	1.9	425	1.9	474	1.9	523	1.9	572	1.9	621	1.9	670	1.9
377	1.9	426	1.9	475	1.9	524	1.9	573	1.9	622	1.9	671	1.9
378	1.9	427	1.9	476	1.9	525	1.9	574	1.9	623	1.9	672	1.9
379	1.9	428	1.9	477	1.9	526	1.9	575	1.9	624	1.9	673	1.9
380	1.9	429	1.9	478	1.9	527	1.9	576	1.9	625	1.9	674	1.9
381	1.9	430	1.9	479	1.9	528	1.9	577	1.9	626	1.9	675	1.9
382	1.9	431	1.9	480	1.9	529	1.9	578	1.9	627	1.9	676	1.9
383	1.9	432	1.9	481	1.9	530	1.9	579	1.9	628	1.9	677	1.9
384	1.9	433	1.9	482	1.9	531	1.9	580	1.9	629	1.9	678	1.9
385	1.9	434	1.9	483	1.9	532	1.9	581	1.9	630	1.9	679	1.9
386	1.9	435	1.9	484	1.9	533	1.9	582	1.9	631	1.9	680	1.9
387	1.9	436	1.9	485	1.9	534	1.9	583	1.9	632	1.9	681	1.9
388	1.9	437	1.9	486	1.9	535	1.9	584	1.9	633	1.9	682	1.9
389	1.9	438	1.9	487	1.9	536	1.9	585	1.9	634	1.9	683	1.9
390	1.9	439	1.9	488	1.9	537	1.9	586	1.9	635	1.9	684	1.9
391	1.9	440	1.9	489	1.9	538	1.9	587	1.9	636	1.9	685	1.9
392	1.9	441	1.9	490	1.9	539	1.9	588	1.9	637	1.9	686	1.9
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58-62 Ock Street				Brooks Nursery									
Abingdon				Barnham									
Oxon OX14 5BZ				Barratts DWH									
Date 11.11.13				Designed by C.Pendle									
File 4482 Pond111113.srcx				Checked by									
Micro Drainage				Source Control 2013.1.1									
<u>Additional Hydrograph #1</u>													
Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
687	1.9	736	1.9	785	1.9	834	1.9	883	1.9	932	1.9	981	1.9
688	1.9	737	1.9	786	1.9	835	1.9	884	1.9	933	1.9	982	1.9
689	1.9	738	1.9	787	1.9	836	1.9	885	1.9	934	1.9	983	1.9
690	1.9	739	1.9	788	1.9	837	1.9	886	1.9	935	1.9	984	1.9
691	1.9	740	1.9	789	1.9	838	1.9	887	1.9	936	1.9	985	1.9
692	1.9	741	1.9	790	1.9	839	1.9	888	1.9	937	1.9	986	1.9
693	1.9	742	1.9	791	1.9	840	1.9	889	1.9	938	1.9	987	1.9
694	1.9	743	1.9	792	1.9	841	1.9	890	1.9	939	1.9	988	1.9
695	1.9	744	1.9	793	1.9	842	1.9	891	1.9	940	1.9	989	1.9
696	1.9	745	1.9	794	1.9	843	1.9	892	1.9	941	1.9	990	1.9
697	1.9	746	1.9	795	1.9	844	1.9	893	1.9	942	1.9	991	1.9
698	1.9	747	1.9	796	1.9	845	1.9	894	1.9	943	1.9	992	1.9
699	1.9	748	1.9	797	1.9	846	1.9	895	1.9	944	1.9	993	1.9
700	1.9	749	1.9	798	1.9	847	1.9	896	1.9	945	1.9	994	1.9
701	1.9	750	1.9	799	1.9	848	1.9	897	1.9	946	1.9	995	1.9
702	1.9	751	1.9	800	1.9	849	1.9	898	1.9	947	1.9	996	1.9
703	1.9	752	1.9	801	1.9	850	1.9	899	1.9	948	1.9	997	1.9
704	1.9	753	1.9	802	1.9	851	1.9	900	1.9	949	1.9	998	1.9
705	1.9	754	1.9	803	1.9	852	1.9	901	1.9	950	1.9	999	1.9
706	1.9	755	1.9	804	1.9	853	1.9	902	1.9	951	1.9	1000	1.9
707	1.9	756	1.9	805	1.9	854	1.9	903	1.9	952	1.9	1001	1.9
708	1.9	757	1.9	806	1.9	855	1.9	904	1.9	953	1.9	1002	1.9
709	1.9	758	1.9	807	1.9	856	1.9	905	1.9	954	1.9	1003	1.9
710	1.9	759	1.9	808	1.9	857	1.9	906	1.9	955	1.9	1004	1.9
711	1.9	760	1.9	809	1.9	858	1.9	907	1.9	956	1.9	1005	1.9
712	1.9	761	1.9	810	1.9	859	1.9	908	1.9	957	1.9	1006	1.9
713	1.9	762	1.9	811	1.9	860	1.9	909	1.9	958	1.9	1007	1.9
714	1.9	763	1.9	812	1.9	861	1.9	910	1.9	959	1.9	1008	1.9
715	1.9	764	1.9	813	1.9	862	1.9	911	1.9	960	1.9	1009	1.9
716	1.9	765	1.9	814	1.9	863	1.9	912	1.9	961	1.9	1010	1.9
717	1.9	766	1.9	815	1.9	864	1.9	913	1.9	962	1.9	1011	1.9
718	1.9	767	1.9	816	1.9	865	1.9	914	1.9	963	1.9	1012	1.9
719	1.9	768	1.9	817	1.9	866	1.9	915	1.9	964	1.9	1013	1.9
720	1.9	769	1.9	818	1.9	867	1.9	916	1.9	965	1.9	1014	1.9
721	1.9	770	1.9	819	1.9	868	1.9	917	1.9	966	1.9	1015	1.9
722	1.9	771	1.9	820	1.9	869	1.9	918	1.9	967	1.9	1016	1.9
723	1.9	772	1.9	821	1.9	870	1.9	919	1.9	968	1.9	1017	1.9
724	1.9	773	1.9	822	1.9	871	1.9	920	1.9	969	1.9	1018	1.9
725	1.9	774	1.9	823	1.9	872	1.9	921	1.9	970	1.9	1019	1.9
726	1.9	775	1.9	824	1.9	873	1.9	922	1.9	971	1.9	1020	1.9
727	1.9	776	1.9	825	1.9	874	1.9	923	1.9	972	1.9	1021	1.9
728	1.9	777	1.9	826	1.9	875	1.9	924	1.9	973	1.9	1022	1.9
729	1.9	778	1.9	827	1.9	876	1.9	925	1.9	974	1.9	1023	1.9
730	1.9	779	1.9	828	1.9	877	1.9	926	1.9	975	1.9	1024	1.9
731	1.9	780	1.9	829	1.9	878	1.9	927	1.9	976	1.9	1025	1.9
732	1.9	781	1.9	830	1.9	879	1.9	928	1.9	977	1.9	1026	1.9
733	1.9	782	1.9	831	1.9	880	1.9	929	1.9	978	1.9	1027	1.9
734	1.9	783	1.9	832	1.9	881	1.9	930	1.9	979	1.9	1028	1.9
735	1.9	784	1.9	833	1.9	882	1.9	931	1.9	980	1.9	1029	1.9
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Abingdon				Barnham									
Oxon OX14 5BZ				Barratts DWH									
Date 11.11.13				Designed by C.Pendle									
File 4482 Pond111113.srcx				Checked by									
Micro Drainage				Source Control 2013.1.1									
Additional Hydrograph #1													
Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1030	1.9	1079	1.9	1128	1.9	1177	1.9	1226	1.9	1275	1.9	1324	1.9
1031	1.9	1080	1.9	1129	1.9	1178	1.9	1227	1.9	1276	1.9	1325	1.9
1032	1.9	1081	1.9	1130	1.9	1179	1.9	1228	1.9	1277	1.9	1326	1.9
1033	1.9	1082	1.9	1131	1.9	1180	1.9	1229	1.9	1278	1.9	1327	1.9
1034	1.9	1083	1.9	1132	1.9	1181	1.9	1230	1.9	1279	1.9	1328	1.9
1035	1.9	1084	1.9	1133	1.9	1182	1.9	1231	1.9	1280	1.9	1329	1.9
1036	1.9	1085	1.9	1134	1.9	1183	1.9	1232	1.9	1281	1.9	1330	1.9
1037	1.9	1086	1.9	1135	1.9	1184	1.9	1233	1.9	1282	1.9	1331	1.9
1038	1.9	1087	1.9	1136	1.9	1185	1.9	1234	1.9	1283	1.9	1332	1.9
1039	1.9	1088	1.9	1137	1.9	1186	1.9	1235	1.9	1284	1.9	1333	1.9
1040	1.9	1089	1.9	1138	1.9	1187	1.9	1236	1.9	1285	1.9	1334	1.9
1041	1.9	1090	1.9	1139	1.9	1188	1.9	1237	1.9	1286	1.9	1335	1.9
1042	1.9	1091	1.9	1140	1.9	1189	1.9	1238	1.9	1287	1.9	1336	1.9
1043	1.9	1092	1.9	1141	1.9	1190	1.9	1239	1.9	1288	1.9	1337	1.9
1044	1.9	1093	1.9	1142	1.9	1191	1.9	1240	1.9	1289	1.9	1338	1.9
1045	1.9	1094	1.9	1143	1.9	1192	1.9	1241	1.9	1290	1.9	1339	1.9
1046	1.9	1095	1.9	1144	1.9	1193	1.9	1242	1.9	1291	1.9	1340	1.9
1047	1.9	1096	1.9	1145	1.9	1194	1.9	1243	1.9	1292	1.9	1341	1.9
1048	1.9	1097	1.9	1146	1.9	1195	1.9	1244	1.9	1293	1.9	1342	1.9
1049	1.9	1098	1.9	1147	1.9	1196	1.9	1245	1.9	1294	1.9	1343	1.9
1050	1.9	1099	1.9	1148	1.9	1197	1.9	1246	1.9	1295	1.9	1344	1.9
1051	1.9	1100	1.9	1149	1.9	1198	1.9	1247	1.9	1296	1.9	1345	1.9
1052	1.9	1101	1.9	1150	1.9	1199	1.9	1248	1.9	1297	1.9	1346	1.9
1053	1.9	1102	1.9	1151	1.9	1200	1.9	1249	1.9	1298	1.9	1347	1.9
1054	1.9	1103	1.9	1152	1.9	1201	1.9	1250	1.9	1299	1.9	1348	1.9
1055	1.9	1104	1.9	1153	1.9	1202	1.9	1251	1.9	1300	1.9	1349	1.9
1056	1.9	1105	1.9	1154	1.9	1203	1.9	1252	1.9	1301	1.9	1350	1.9
1057	1.9	1106	1.9	1155	1.9	1204	1.9	1253	1.9	1302	1.9	1351	1.9
1058	1.9	1107	1.9	1156	1.9	1205	1.9	1254	1.9	1303	1.9	1352	1.9
1059	1.9	1108	1.9	1157	1.9	1206	1.9	1255	1.9	1304	1.9	1353	1.9
1060	1.9	1109	1.9	1158	1.9	1207	1.9	1256	1.9	1305	1.9	1354	1.9
1061	1.9	1110	1.9	1159	1.9	1208	1.9	1257	1.9	1306	1.9	1355	1.9
1062	1.9	1111	1.9	1160	1.9	1209	1.9	1258	1.9	1307	1.9	1356	1.9
1063	1.9	1112	1.9	1161	1.9	1210	1.9	1259	1.9	1308	1.9	1357	1.9
1064	1.9	1113	1.9	1162	1.9	1211	1.9	1260	1.9	1309	1.9	1358	1.9
1065	1.9	1114	1.9	1163	1.9	1212	1.9	1261	1.9	1310	1.9	1359	1.9
1066	1.9	1115	1.9	1164	1.9	1213	1.9	1262	1.9	1311	1.9	1360	1.9
1067	1.9	1116	1.9	1165	1.9	1214	1.9	1263	1.9	1312	1.9	1361	1.9
1068	1.9	1117	1.9	1166	1.9	1215	1.9	1264	1.9	1313	1.9	1362	1.9
1069	1.9	1118	1.9	1167	1.9	1216	1.9	1265	1.9	1314	1.9	1363	1.9
1070	1.9	1119	1.9	1168	1.9	1217	1.9	1266	1.9	1315	1.9	1364	1.9
1071	1.9	1120	1.9	1169	1.9	1218	1.9	1267	1.9	1316	1.9	1365	1.9
1072	1.9	1121	1.9	1170	1.9	1219	1.9	1268	1.9	1317	1.9	1366	1.9
1073	1.9	1122	1.9	1171	1.9	1220	1.9	1269	1.9	1318	1.9	1367	1.9
1074	1.9	1123	1.9	1172	1.9	1221	1.9	1270	1.9	1319	1.9	1368	1.9
1075	1.9	1124	1.9	1173	1.9	1222	1.9	1271	1.9	1320	1.9	1369	1.9
1076	1.9	1125	1.9	1174	1.9	1223	1.9	1272	1.9	1321	1.9	1370	1.9
1077	1.9	1126	1.9	1175	1.9	1224	1.9	1273	1.9	1322	1.9	1371	1.9
1078	1.9	1127	1.9	1176	1.9	1225	1.9	1274	1.9	1323	1.9	1372	1.9
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58-62 Ock Street				Brooks Nursery																																																																																																																																																																			
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<u>Additional Hydrograph #1</u> <table><tr><th>Time (mins)</th><th>Flow (l/s)</th><th>Time (mins)</th><th>Flow (l/s)</th><th>Time (mins)</th><th>Flow (l/s)</th><th>Time (mins)</th><th>Flow (l/s)</th><th>Time (mins)</th><th>Flow (l/s)</th><th>Time (mins)</th><th>Flow (l/s)</th><th>Time (mins)</th><th>Flow (l/s)</th></tr><tr><td>1373</td><td>1.9</td><td>1383</td><td>1.9</td><td>1393</td><td>1.9</td><td>1403</td><td>1.9</td><td>1413</td><td>1.9</td><td>1423</td><td>1.9</td><td>1433</td><td>1.9</td></tr><tr><td>1374</td><td>1.9</td><td>1384</td><td>1.9</td><td>1394</td><td>1.9</td><td>1404</td><td>1.9</td><td>1414</td><td>1.9</td><td>1424</td><td>1.9</td><td>1434</td><td>1.9</td></tr><tr><td>1375</td><td>1.9</td><td>1385</td><td>1.9</td><td>1395</td><td>1.9</td><td>1405</td><td>1.9</td><td>1415</td><td>1.9</td><td>1425</td><td>1.9</td><td>1435</td><td>1.9</td></tr><tr><td>1376</td><td>1.9</td><td>1386</td><td>1.9</td><td>1396</td><td>1.9</td><td>1406</td><td>1.9</td><td>1416</td><td>1.9</td><td>1426</td><td>1.9</td><td>1436</td><td>1.9</td></tr><tr><td>1377</td><td>1.9</td><td>1387</td><td>1.9</td><td>1397</td><td>1.9</td><td>1407</td><td>1.9</td><td>1417</td><td>1.9</td><td>1427</td><td>1.9</td><td>1437</td><td>1.9</td></tr><tr><td>1378</td><td>1.9</td><td>1388</td><td>1.9</td><td>1398</td><td>1.9</td><td>1408</td><td>1.9</td><td>1418</td><td>1.9</td><td>1428</td><td>1.9</td><td>1438</td><td>1.9</td></tr><tr><td>1379</td><td>1.9</td><td>1389</td><td>1.9</td><td>1399</td><td>1.9</td><td>1409</td><td>1.9</td><td>1419</td><td>1.9</td><td>1429</td><td>1.9</td><td>1439</td><td>1.9</td></tr><tr><td>1380</td><td>1.9</td><td>1390</td><td>1.9</td><td>1400</td><td>1.9</td><td>1410</td><td>1.9</td><td>1420</td><td>1.9</td><td>1430</td><td>1.9</td><td>1440</td><td>1.9</td></tr><tr><td>1381</td><td>1.9</td><td>1391</td><td>1.9</td><td>1401</td><td>1.9</td><td>1411</td><td>1.9</td><td>1421</td><td>1.9</td><td>1431</td><td>1.9</td><td></td><td></td></tr><tr><td>1382</td><td>1.9</td><td>1392</td><td>1.9</td><td>1402</td><td>1.9</td><td>1412</td><td>1.9</td><td>1422</td><td>1.9</td><td>1432</td><td>1.9</td><td></td><td></td></tr></table>														Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	1373	1.9	1383	1.9	1393	1.9	1403	1.9	1413	1.9	1423	1.9	1433	1.9	1374	1.9	1384	1.9	1394	1.9	1404	1.9	1414	1.9	1424	1.9	1434	1.9	1375	1.9	1385	1.9	1395	1.9	1405	1.9	1415	1.9	1425	1.9	1435	1.9	1376	1.9	1386	1.9	1396	1.9	1406	1.9	1416	1.9	1426	1.9	1436	1.9	1377	1.9	1387	1.9	1397	1.9	1407	1.9	1417	1.9	1427	1.9	1437	1.9	1378	1.9	1388	1.9	1398	1.9	1408	1.9	1418	1.9	1428	1.9	1438	1.9	1379	1.9	1389	1.9	1399	1.9	1409	1.9	1419	1.9	1429	1.9	1439	1.9	1380	1.9	1390	1.9	1400	1.9	1410	1.9	1420	1.9	1430	1.9	1440	1.9	1381	1.9	1391	1.9	1401	1.9	1411	1.9	1421	1.9	1431	1.9			1382	1.9	1392	1.9	1402	1.9	1412	1.9	1422	1.9	1432	1.9		
Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)																																																																																																																																																										
1373	1.9	1383	1.9	1393	1.9	1403	1.9	1413	1.9	1423	1.9	1433	1.9																																																																																																																																																										
1374	1.9	1384	1.9	1394	1.9	1404	1.9	1414	1.9	1424	1.9	1434	1.9																																																																																																																																																										
1375	1.9	1385	1.9	1395	1.9	1405	1.9	1415	1.9	1425	1.9	1435	1.9																																																																																																																																																										
1376	1.9	1386	1.9	1396	1.9	1406	1.9	1416	1.9	1426	1.9	1436	1.9																																																																																																																																																										
1377	1.9	1387	1.9	1397	1.9	1407	1.9	1417	1.9	1427	1.9	1437	1.9																																																																																																																																																										
1378	1.9	1388	1.9	1398	1.9	1408	1.9	1418	1.9	1428	1.9	1438	1.9																																																																																																																																																										
1379	1.9	1389	1.9	1399	1.9	1409	1.9	1419	1.9	1429	1.9	1439	1.9																																																																																																																																																										
1380	1.9	1390	1.9	1400	1.9	1410	1.9	1420	1.9	1430	1.9	1440	1.9																																																																																																																																																										
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©1982-2013 Micro Drainage Ltd																																																																																																																																																																							

NOTES:

1. Do not scale from this drawing.
2. All dimensions in metres and all levels relate to Ordnance Datum.
3. This drawing is to be read in conjunction with all other engineering drawings. Any discrepancies shall be reported to MJA Consulting Engineer's.
4. The level and location of all existing services shall be verified on site by the Contractor before commencing any construction work.
5. Construction of the foul sewers shall be in accordance with the document 'Sewers for Adoption' 6th Edition, Interim Technical Addendum No 1. (ITA1) published May 2011, together with relevant Water Authority requirements.
6. All foul sewer adoptable works to be inspected and tested by the Water Authority Inspector.
7. Foul Drains serving two properties or more where adopted by the Water Authority shall be constructed in accordance to the "Sewers for Adoption Technical Addendum".
8. Adoptable foul pipework specification: DN150 – DN300 shall be either clay or approved Structured Wall Plastic, pipe sizes greater than DN300 shall be Class 120 Concrete. Structured Wall Plastic pipes must be to SN8 specification, meet a jetting resistance of 4000psi and have a maximum of 6% deformation.

KEY:

Proposed Adoptable Sewers:

Foul sewer

Storm sewer

Highway Gully

Proposed Private Drainage:

Foul drain

Storm drain

Rodding eye

Yard gully

Aco drain

All private inspection chambers shall be polypropylene non-access chambers in accordance with The Building Regulations, Part H.

Chamber sizes:
Depth to invert <0.6m DN300
Depth to invert >0.6m DN475

Invert levels shown thus: F10.00 S10.00

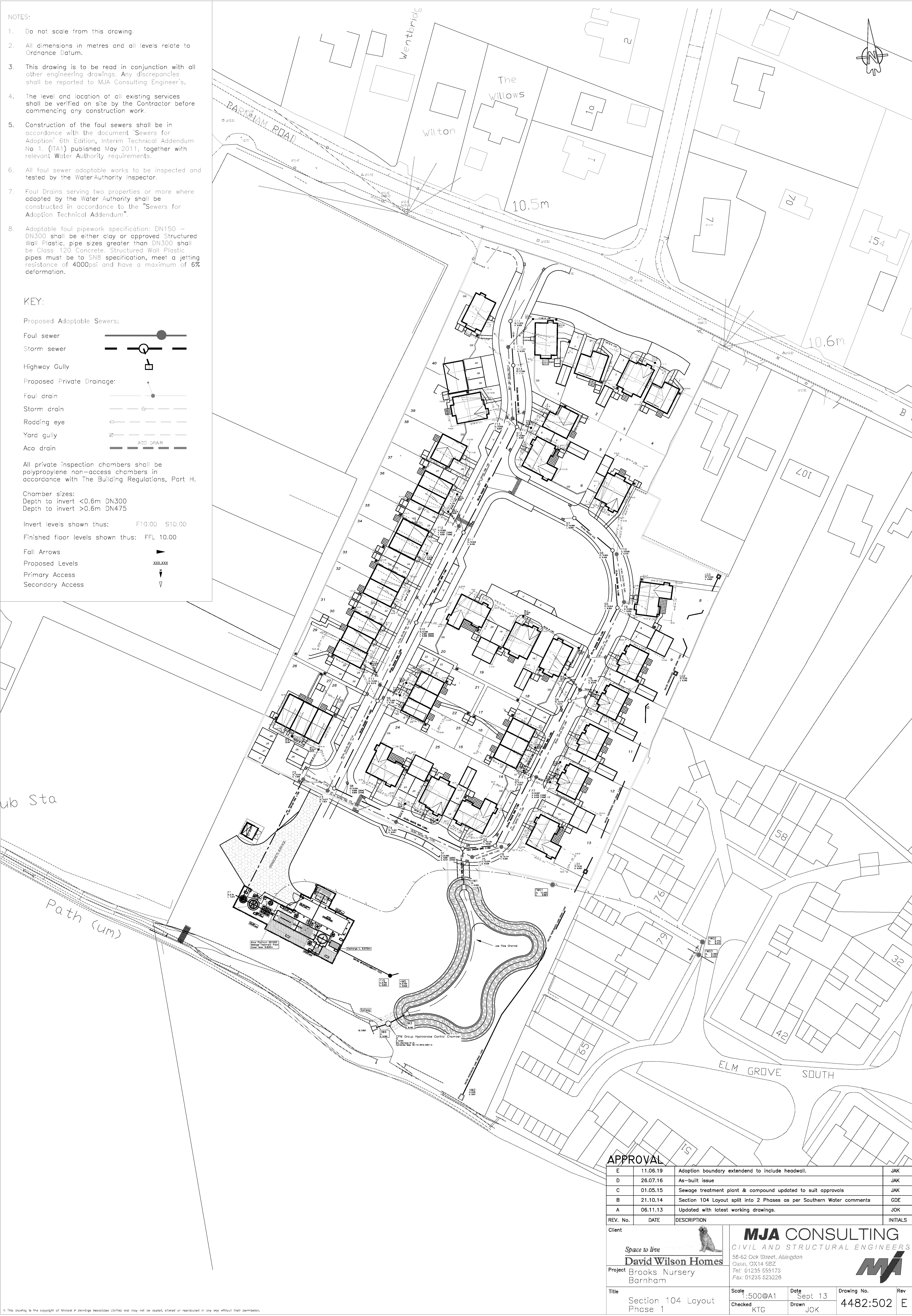
Finished floor levels shown thus: FFL 10.00

Fall Arrows

Proposed Levels

Primary Access

Secondary Access



APPROVAL

E	11.06.19	Adoption boundary extended to include headwall.	JAK
D	26.07.16	As-built issue	JAK
C	01.05.15	Sewage treatment plant & compound updated to suit approvals	JAK
B	21.10.14	Section 104 Layout split into 2 Phases as per Southern Water comments	GDE
A	06.11.13	Updated with latest working drawings.	JOK
REV. No.	DATE	DESCRIPTION	INITIALS

Client

Space to live

David Wilson Homes

Project Brooks Nursery Barnham

MJA CONSULTING

CIVIL AND STRUCTURAL ENGINEERS

58-62 Oak Street, Abingdon
Oxon, OX14 5BZ
Tel: 01235 555173
Fax: 01235 523228

Title

Section 104 Layout Phase 1

Scale

1:500@A1

Checked

KTG

Date

Sept 13

Drawn

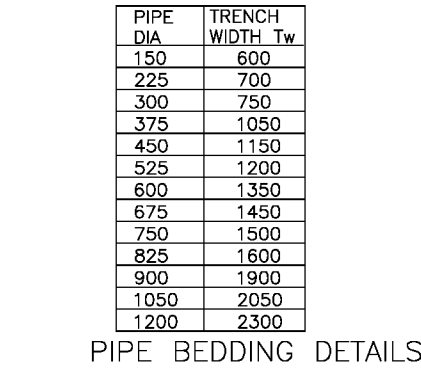
JOK

Drawing No.

4482:502

Rev

E



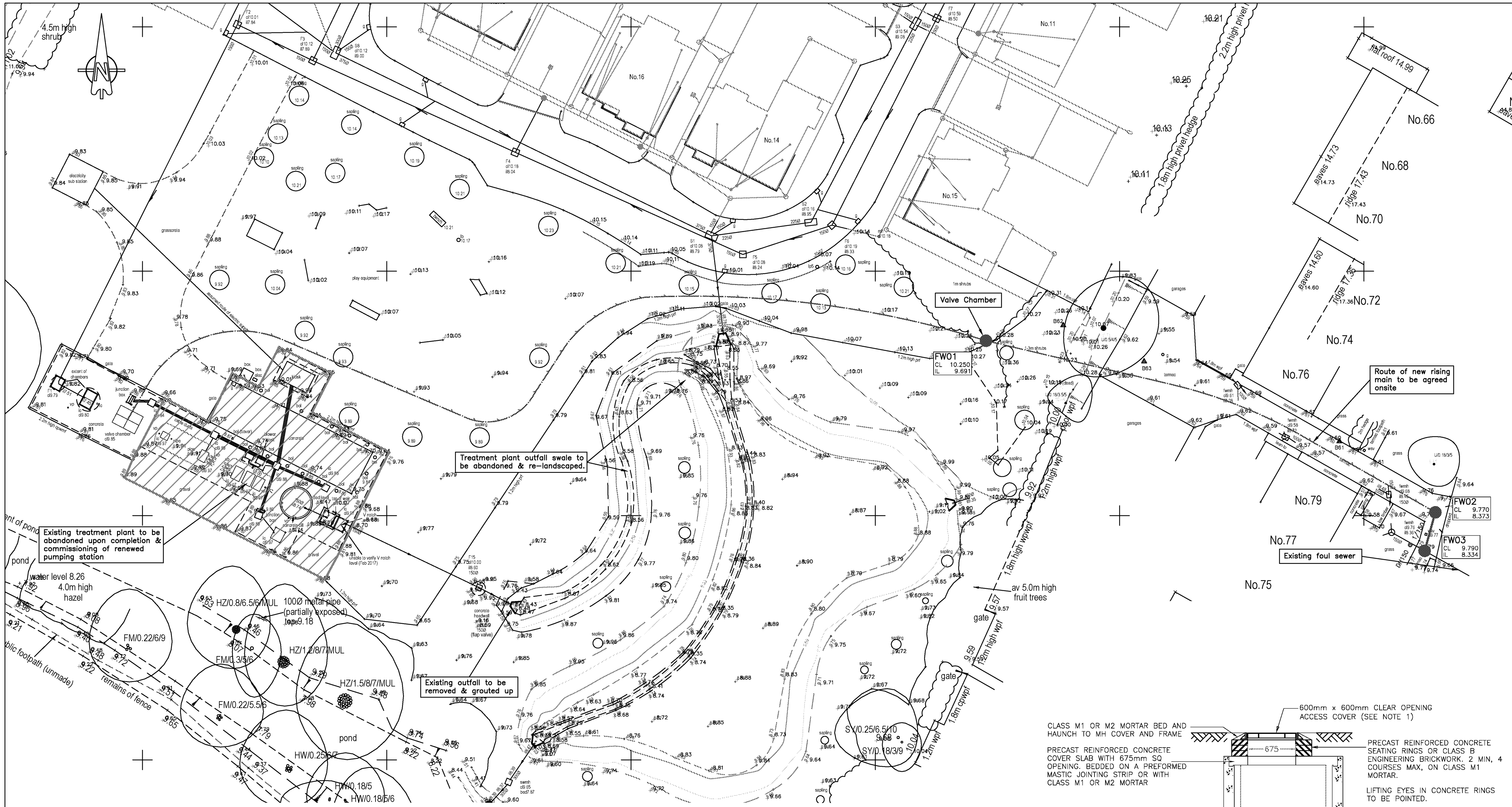
BACKFILL TO TRENCHES

- Backfill within highways and paved areas shall be backfilled in accordance with local highway authority requirements or H.A.U.C. Specification for the reinstatement of Highways Appendix 1.
- Backfill outside hard areas shall be in accordance with the Specification for Highway Works Clause 505 Class 1, 2 or 3. Material shall be placed and compacted in layers.
- A minimum of 150mm bed and surround is to be provided to all pipes.

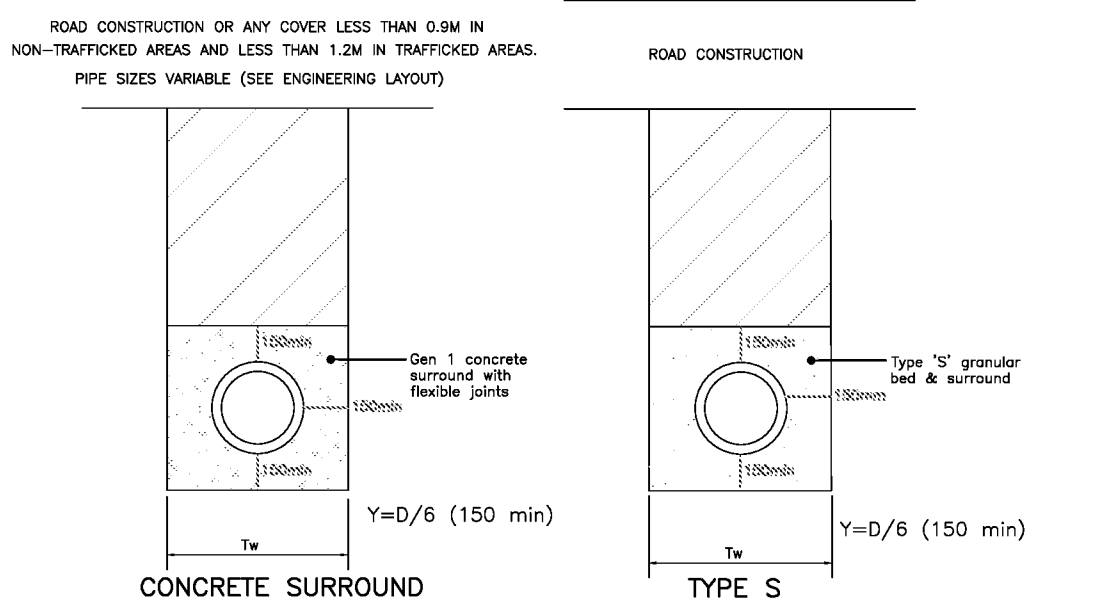


Client	 BARRATT HOMES <i>build around you</i>	MJA CONSULTING CIVIL AND STRUCTURAL ENGINEERS Monarch House, Barton Lane, Abingdon, Oxon, OX14 3NB Tel: 01235 555178 Fax: 01235 523228 			
Project	Brooks Nursery Barnham				
Title	Foul Outfall Rising Main Details	Scale 1:250	Date Sept '18	Drawing No.	Rev
		Checked	Drawn AMc	4482:510	E





- NOTES:
1. Do not scale from this drawing.
 2. All dimensions in metres and all levels relate to site datum.
 3. This drawing is to be read in conjunction with all other engineering drawings. Any discrepancies shall be reported to MJA Consulting Engineer's.
 4. The level and location of all existing services shall be verified on site by the Contractor before commencing any construction work.
 5. All adoptable works to be checked by the Water Authority Inspector.
 6. Sewers and drains of different diameters should be laid soffit to soffit unless otherwise specified.
 7. All covers and frames shall be 150mm deep to BS.EN.124, badged SW or FW if requested.
 8. Contractor must comply with all current legislation relating to CDM, Health and Safety, and COSHH.



PIPE DIA.	TRENCH WIDTH Tw
150	600
225	700
300	750
375	1050
450	1150
525	1200
600	1350
675	1450
750	1500
825	1600
900	1900
1050	2050
1200	2300

PIPE BEDDING DETAILS

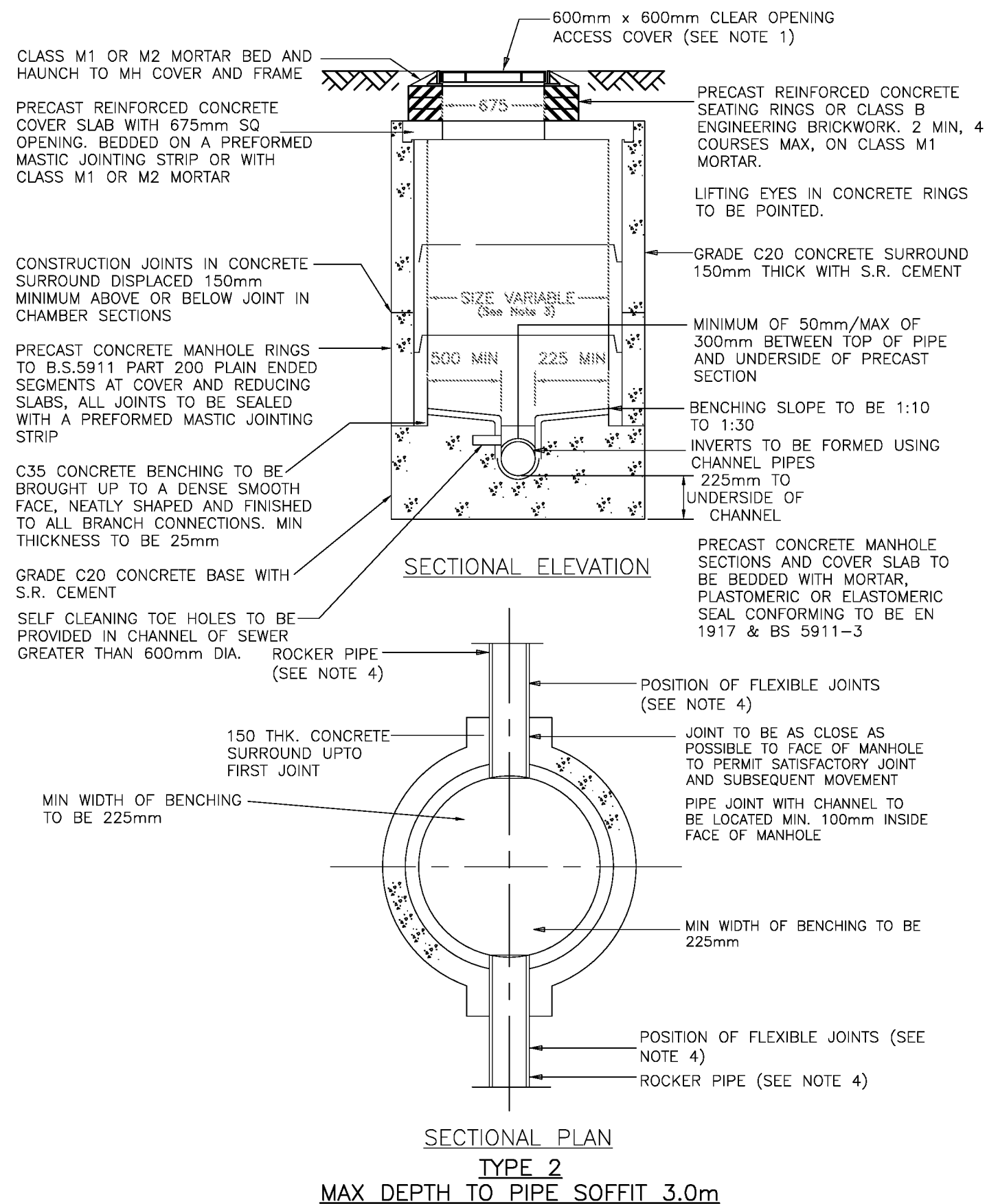
GRANULAR BEDDING & SURROUND

Granular bedding for pipes shall comply with Cl 2.28 of C35M, sized in accordance with the following table:

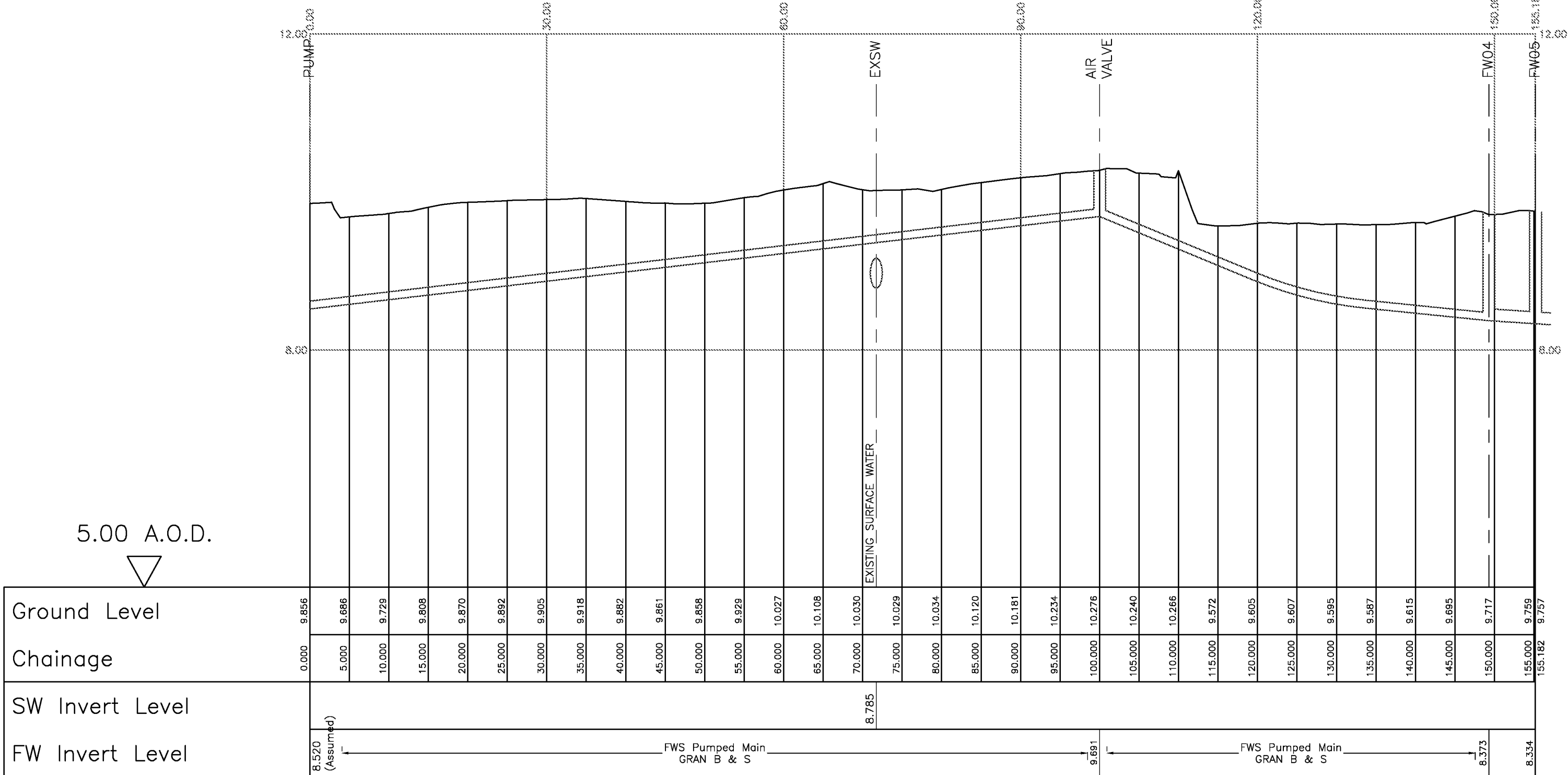
Nominal Size of Pipe (mm)	Alternative Aggregate Sizes (mm)		C _f Value Max
	Single-Sized	Graded	
100-150	10	14 to 5	0.2
150-225	10 or 14	14 to 5 or 20 to 5	0.2
225-300	10,14 or 20	14 to 5 or 20 to 5	0.2
300-375	14,20 or 40	14 to 5, 20 to 5 or 40 to 5	0.15
Exceeding			0.5

BACKFILL TO TRENCHES

- Backfill within highwalls and panel areas shall be backfilled in accordance with local highway authority requirements or H.A.U.C. Specification for the reinstatement of highways Appendix 1.
- Backfill outside hard areas shall be in accordance with the Specification for Highway Works Clause 505 Class 1, 2 or 3. Material shall be placed and compacted in layers.
- A minimum of 150mm bed and surround is to be provided to all pipes.



SECTIONAL PLAN
TYPE 2
MAX DEPTH TO PIPE SOFFIT 3.0m



NOTES:

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4. The level and location of all existing services shall be verified on site by the Contractor before commencing any construction work.
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6. All foul sewer adoptable works to be inspected and tested by the Water Authority Inspector.
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8. Adoptable foul pipework specification: DN150 – DN300 shall be either clay or approved Structured Wall Plastic, pipe sizes greater than DN300 shall be Class 120 Concrete. Structured Wall Plastic pipes must be to SN8 specification, meet a jetting resistance of 4000psi and have a maximum of 6% deformation.

KEY:

Proposed Adoptable Sewers:

Foul sewer
Storm sewer

Highway Gully

Proposed Private Drainage:

Foul drain
Storm drain
Roding eye
Yard gully
Aco drain

All private inspection chambers shall be polypropylene non-access chambers in accordance with The Building Regulations, Part H.

Chamber sizes:
Depth to invert <0.6m DN300
Depth to invert >0.6m DN475

Invert levels shown thus: F10.00 S10.00

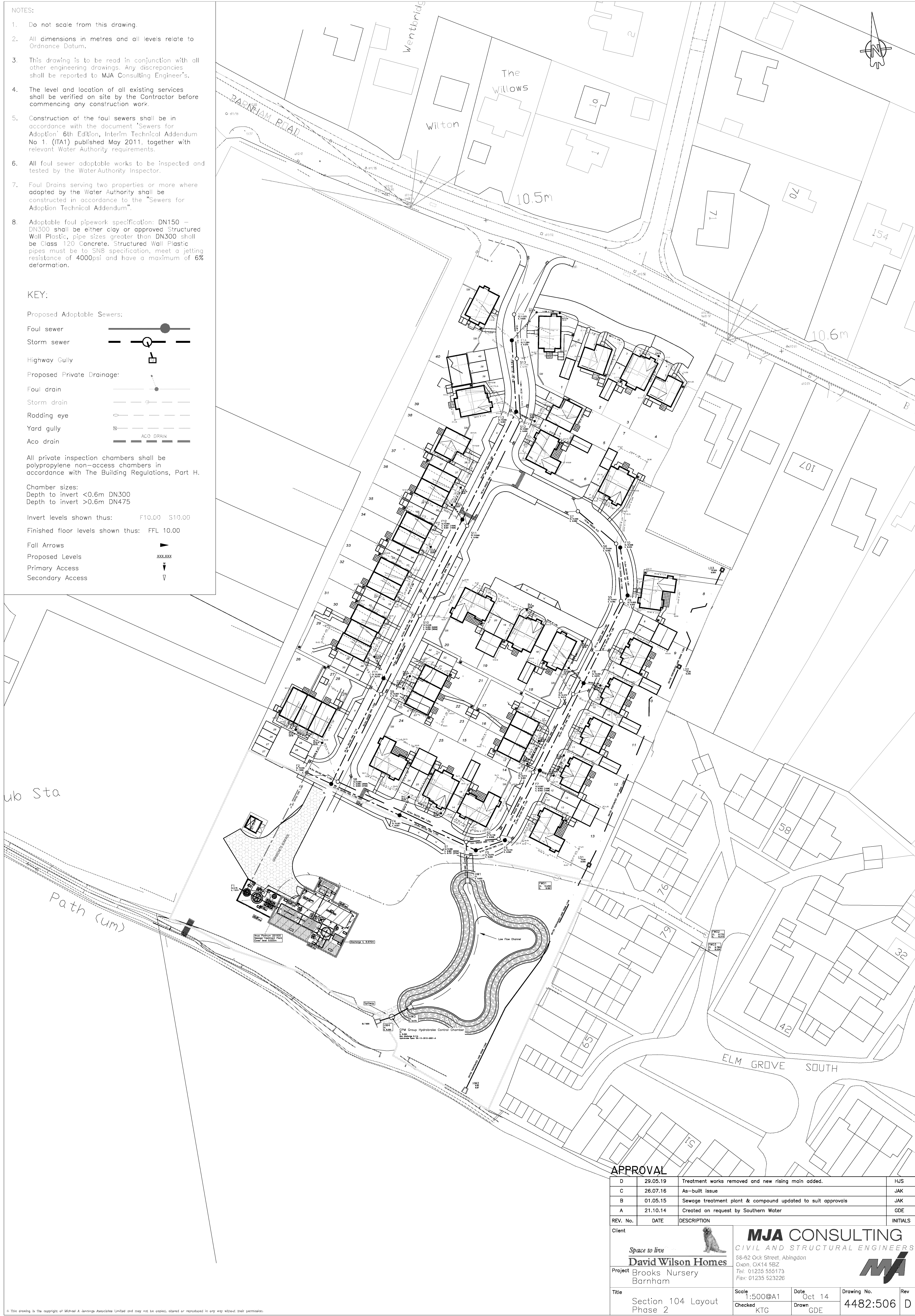
Finished floor levels shown thus: FFL 10.00

Fall Arrows

Proposed Levels

Primary Access

Secondary Access



APPROVAL

D	29.05.19	Treatment works removed and new rising main added.	HJS
C	26.07.16	As-built issue	JAK
B	01.05.15	Sewage treatment plant & compound updated to suit approvals	JAK
A	21.10.14	Created on request by Southern Water	GDE
REV. No.	DATE	DESCRIPTION	INITIALS

Client

Space to live
David Wilson Homes

Project Brooks Nursery Barnham

Title Section 104 Layout Phase 2



MJA CONSULTING
CIVIL AND STRUCTURAL ENGINEERS
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Scale 1:500@A1	Date Oct 14	Drawing No. 4482:506	Rev D
Checked KTG	Drawn GDE		